

February 2023

London Luton Airport Expansion

Planning Inspectorate Scheme Ref: TR020001

Volume 5 Environmental Statement and Related Documents
5.02 Appendix 17.2 Generic Quantitative Risk Assessment - Part B

Application Document Ref: TR020001/APP/5.02
APFP Regulation: 5(2)(a)

The Planning Act 2008

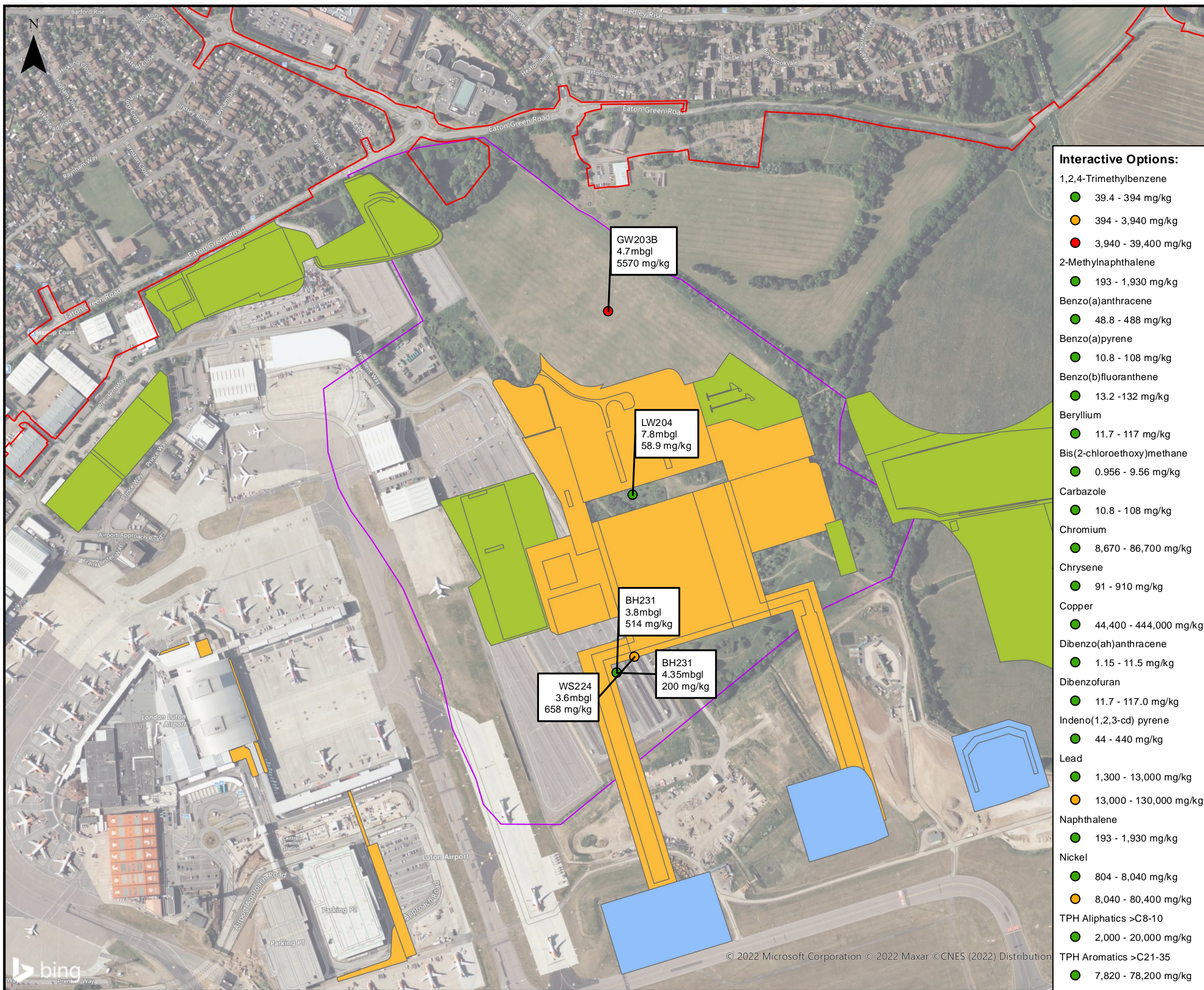
**The Infrastructure Planning (Applications: Prescribed Forms and Procedure)
Regulations 2009**

**London Luton Airport Expansion Development Consent
Order 202x**

**5.02 ENVIRONMENTAL STATEMENT APPENDIX 17.2
GENERIC QUANTITATIVE RISK ASSESSMENT - PART B**

Regulation number:	Regulation 5(2)(a)
Planning Inspectorate Scheme Reference:	TR020001
Document Reference:	TR020001/APP/5.02
Author:	Luton Rising

Version	Date	Status of Version
Issue 01	February 2023	Application issue



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- Legend**
- Order Limits
 - Interpreted Landfill Boundary

- Zones**
- Airfield Works
 - Airport Support Facilities
 - Terminal and Associated Works

- Human Health Exceedance**
- x10
 - x100 Exceedance above Generic Assessment Criteria (GAC)
 - x1000

- Notes**
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- Interactive Options:**
- 1,2,4-Trimethylbenzene
 - 39.4 - 394 mg/kg
 - 394 - 3,940 mg/kg
 - 3,940 - 39,400 mg/kg
 - 2-Methylnaphthalene
 - 193 - 1,930 mg/kg
 - Benzo(a)anthracene
 - 48.8 - 488 mg/kg
 - Benzo(a)pyrene
 - 10.8 - 108 mg/kg
 - Benzo(b)fluoranthene
 - 13.2 - 132 mg/kg
 - Beryllium
 - 11.7 - 117 mg/kg
 - Bis(2-chloroethoxy)methane
 - 0.956 - 9.56 mg/kg
 - Carbazole
 - 10.8 - 108 mg/kg
 - Chromium
 - 8,670 - 86,700 mg/kg
 - Chrysene
 - 91 - 910 mg/kg
 - Copper
 - 44,400 - 444,000 mg/kg
 - Dibenzo(ah)anthracene
 - 1.15 - 11.5 mg/kg
 - Dibenzofuran
 - 11.7 - 117.0 mg/kg
 - Indeno(1,2,3-cd) pyrene
 - 44 - 440 mg/kg
 - Lead
 - 1,300 - 13,000 mg/kg
 - 13,000 - 130,000 mg/kg
 - Naphthalene
 - 193 - 1,930 mg/kg
 - Nickel
 - 804 - 8,040 mg/kg
 - 8,040 - 80,400 mg/kg
 - TPH Aliphatics >C8-10
 - 2,000 - 20,000 mg/kg
 - TPH Aromatics >C21-35
 - 7,820 - 78,200 mg/kg

First Issue	AB	RB	TB	23/09/22	P02
Revision History	Drawn	Checked	Approved	Date	Rev.

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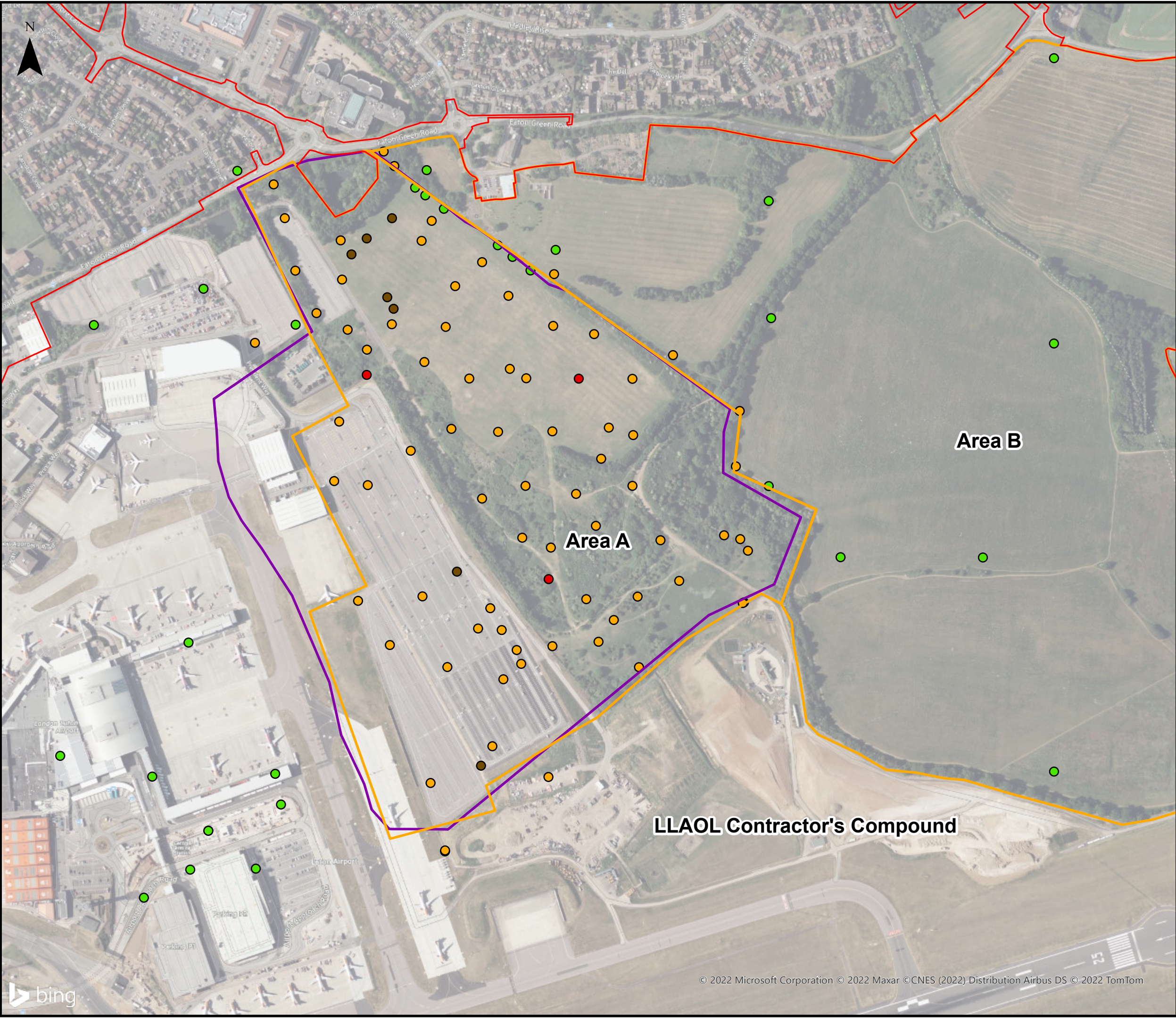
London Luton Airport Expansion Development Consent Order

Drawing Title
Figure 16 Human Health Exceedances

Purpose of issue SUITABLE FOR INFORMATION				Suitability S2	
Drawn	Checked	Approved	Date	Scale	Size
AB	RB	TB	23/09/22	1:5,000	A3

DCO Application Ref. TR020001	APFP Regulation APFP 5(2)(a)	DCO Document Ref. TR020001/APP/5.03
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Drawing Number LLADCO-3C-ARP-00-00-DR-YE-0175	Revision P02
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- Legend**
- Order Limits
 - Site Subdivisions
 - Interpreted Landfill Boundary
- Ground Gas Characteristic Situation**
- CS1
 - CS2
 - CS3
 - CS4

First Issue	AB	RB	TB	26/09/22	P02
Revision History	Drawn	Checked	Approved	Date	Rev.

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 Kimpton Road, Luton, LU2 0LA
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 Development Consent Order**

Drawing Title
 Figure 17
 Ground Gas Assessment

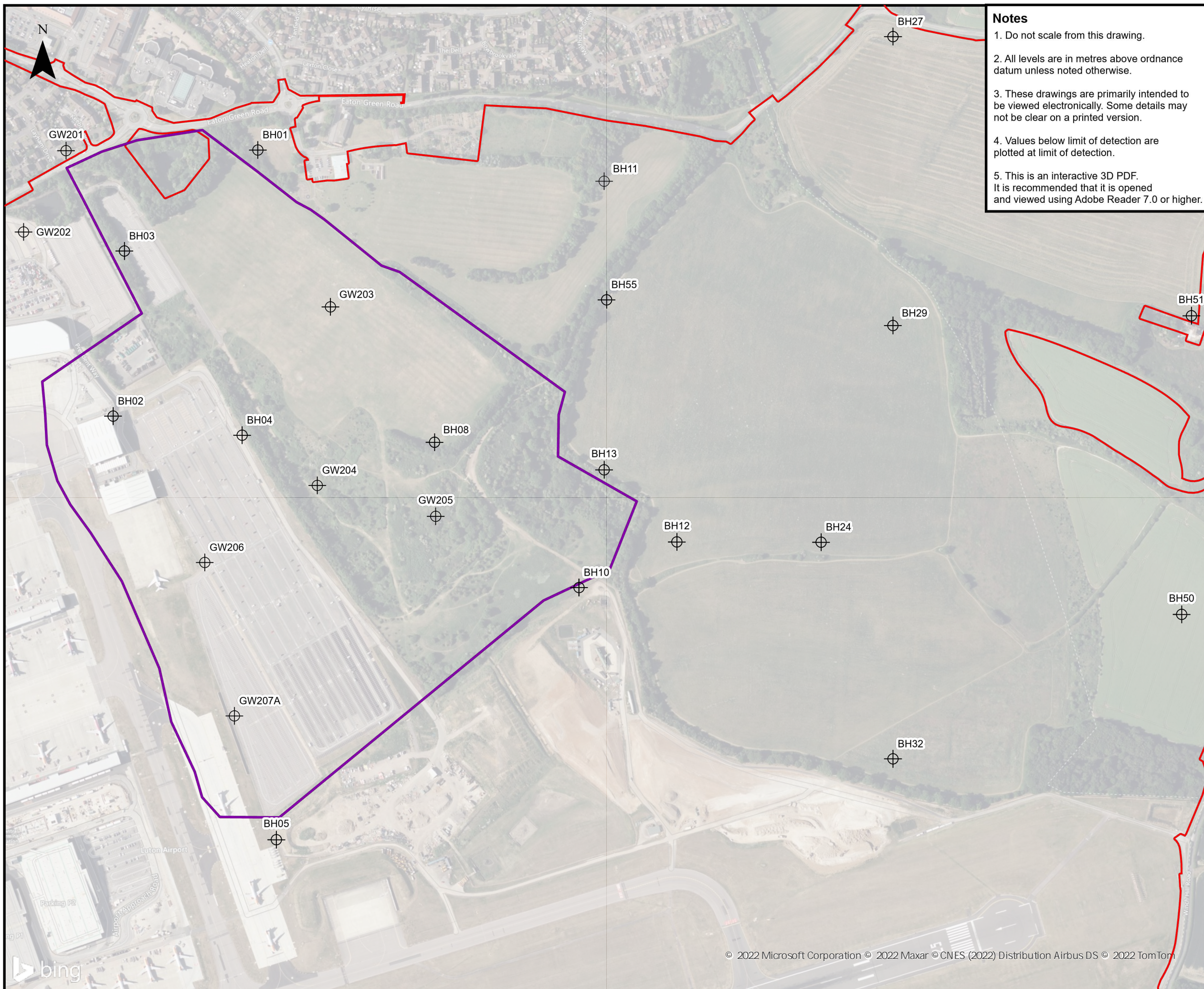
Purpose of issue SUITABLE FOR INFORMATION				Suitability S2	
Drawn AB	Checked RB	Approved TB	Date 26/09/22	Scale 1:5,000	Size A3

DCO Application Ref. TR020001	APFP Regulation APFP 5(2)(a)	DCO Document Ref. TR020001/APP/5.03
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Drawing Number LLADCO-3C-ARP-00-00-DR-YE-0173	Revision P02
Project - Phase - Originator - Asset/Zone - Sub Asset - Type- Discp. - Number	

LLAOL Contractor's Compound





Notes

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Legend

- Order Limits
- Interpreted Landfill Boundary
- + Groundwater Monitoring Boreholes

First Issue	AB	RB	TB	23/09/22	P02
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Drawing Title
Figure 18
Controlled Water Risk Assessment Contamination Review

Purpose of issue SUITABLE FOR INFORMATION				Suitability S2	
Drawn	Checked	Approved	Date	Scale	Size
AB	RB	TB	23/09/22	1:5,000	A3

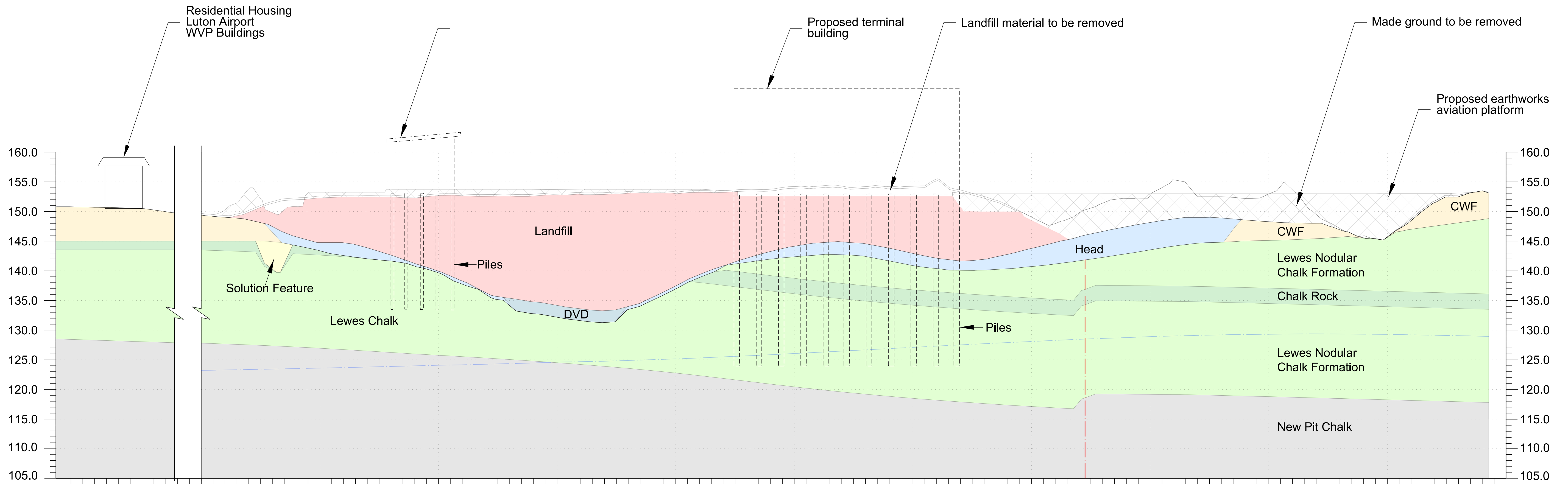
DCO Application Ref.	APFP Regulation	DCO Document Ref.
TR020001	APFP 5(2)(a)	TR020001/APP/5.03

Drawing Number	Revision
LLADCO-3C-ARP-00-00-DR-YE-0172	P02

Project - Phase - Originator - Asset/Zone - Sub Asset - Type- Discp - Number



Section A-A



Interactive Buttons

Please Note: This is an interactive PDF. Either the Conceptual Site Model Potential Contaminant Linkage No. (see GQRA Table 13-1) or the sources below can be clicked to display the relevant pathway and receptors.

Conceptual Site Model Potential Contaminant Linkage No.

01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41

Notes

- Do not scale from this drawing.
- All levels are in metres above ordnance datum unless noted otherwise.
- These drawings are primarily intended to be viewed electronically. Some details may not be clear or visible on a printed version.
- Strata and other levels have been drawn from interpolated 3D models of various boundaries logged in trial pits and boreholes, topographical data and data from geological maps etc. It is intended to provide a guide as to likely ground conditions and as such should be regarded as indicative. It is recommended that design decisions made on the basis of this information are confirmed by investigation.
- This is an interactive 2D PDF. For full interactivity it is recommended that the original digital version it is opened and viewed using Adobe Reader 7.0 or higher.
- Bing Maps Aerial - © 2021 Microsoft Corporation © 2021 Maxar ©CNES (2021) Distribution Airbus DS

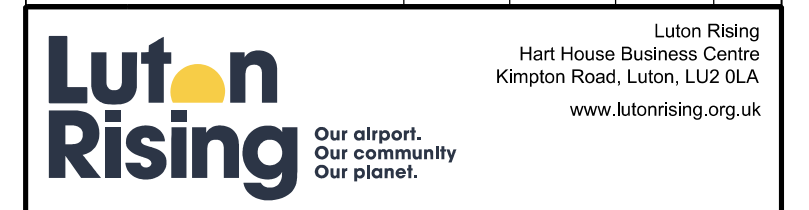
Sources	Pathways	Receptors
① Landfill ground gas + vapour	i Migration	A Future site users
② Volatile radionuclides in landfill	ii Inhalation	B Adjacent site users
③ Landfill waste	iii Dermal contact/ingestion	C Construction workers
④ Japanese knotweed	iv Driving of contaminants downwards by piling	D Future maintenance workers
⑤ Landfill leachate	v Direct contact	E Principal chalk aquifer
⑥ Perched water in landfill	vi Plant uptake	F Foundations /floor slabs and buried concrete
⑦ Made ground contaminants		G Planting
⑧ Contaminants in groundwater		H Potable water extraction
⑨ UXO		J Drainage and pavements

Legend



Key Plan

Issue	IJ	RB	TB	30/09/22	P02
Issue	IJ	RB	TB	16/12/21	P01
Revision History	Drawn	Checked	Approved	Date	Rev.



London Luton Airport Expansion Development Consent Order

Drawing Title
Figure 19
Conceptual Site Model (CSM)

Purpose of issue				Suitability	
SUITABLE FOR COORDINATION				S2	
Drawn	Checked	Approved	Date	Scale	Size
IJ	RB	TB	30/09/22	NTS	A1
DCO Application Ref.		APFP Regulation		DCO Document Ref.	
TR020001					
Drawing Number					Revision
LLADCO-3C-ARP-00-00-DR-YE-0175					P02
Project - Phase - Originator - Asset/Zone - Sub Asset - Type - Discp. - Number					

Appendix A - Former Landfill Ground Investigation Strategy

London Luton Airport Limited
London Luton Airport Expansion
Ground Investigation Strategy

Rev A | 12 March 2018

This report takes into account the particular instructions and requirements of our client.

It is not intended for and should not be relied upon by any third party and no responsibility is undertaken to any third party.

Job number 245580

Ove Arup & Partners Ltd
The Arup Campus
Blythe Gate
Blythe Valley Park
Solihull B90 8AE
United Kingdom
[REDACTED]

ARUP

Document Verification

Job title		London Luton Airport Expansion		Job number	
				245580	
Document title		Ground Investigation Strategy		File reference	
Document ref					
Revision	Date	Filename	2017-12-14 GI strategy report ISSUE.docx		
Issue	14 Dec 2017	Description			
			Prepared by	Checked by	Approved by
		Name	[REDACTED]	[REDACTED]	[REDACTED]
		Signature	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	Filename	2018-03-05 GI strategy report_RevA DRAFT.docx		
		Description	Updated to reflect changes in GI scope		
			Prepared by	Checked by	Approved by
		Name	[REDACTED]	[REDACTED]	[REDACTED]
		Signature	[REDACTED]	[REDACTED]	[REDACTED]
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		Signature			
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Figure 1 Ground Investigation location plan

Appendix A

Conceptual Site Model from DQRA

Appendix B

Supplementary gas and groundwater sampling and monitoring programme

1 Introduction

London Luton Airport Limited (LLAL) intends to submit an application for a development consent order (DCO) for expansion of London Luton Airport.

The masterplan for this expansion is currently being developed and it is envisaged that it will involve development of a former landfill adjacent to the airport. The former landfill occupies an area of 53 hectares¹ and was previously known as Eaton Green Landfill.

The extent of development is not yet determined, however sufficient ground investigation is required to characterise the potential risks associated with development of the former landfill and any mitigation measures which are likely to be required.

This report sets out the strategy for further ground investigation of the landfill. It is a working document and will be updated as the masterplan for the site is developed.

1.1 Previous Ground Investigations

A Preliminary Risk Assessment (PRA)² has been undertaken for the site, which reviewed in detail the site and environment setting, site history, previous site investigation records, geology, hydrology and hydrogeology. The PRA identified that records available from previous site investigations undertaken at the landfill were limited to the western edge of the landfill. These investigations were:

- Soil Engineering (2012) Factual report on a ground investigation for Luton Airport FBO
- Delta Simons (2012) Preliminary Site Investigation. Proposed Taxiway Foxtrot, London Luton Airport. Project Number 12-0319.01

An exploratory ground investigation (GI) was undertaken by Structural Soils between 8 December 2016 and 31 January 2017 comprising:

- 18 No. resonance (sonic) boreholes drilled to a depth of between 6.00 mbgl and 60.00 mbgl;
- 2 No. Cable Percussion Boreholes extended with rotary drilling. Boreholes to a depth of between 6.45 mbgl – 9.00 mbgl with rotary follow on to a depth of 58.50 mbgl;
- 9 No. permeability tests in boreholes;
- 26 No. Dynamic Probe Penetrometer tests;
- Geotechnical and environmental soil sampling and laboratory testing; and

¹ Environment Agency boundary for landfill makes area 53 ha but ground investigation information shows area filled is actually 45ha

² Arup (June 2017) London Luton Airport Limited. Century Park Development, Airport Way. Contamination Preliminary Risk Assessment-Former Eaton Green Landfill

- 17 No. groundwater and gas monitoring standpipes.

In addition to this GI of the landfill, two further investigations were undertaken in the area in 2016-2107; an investigation undertaken for the Access Road for the proposed Century Park Development and one for the wider Century Park Development. A plan of the GI locations associated with these investigations is shown in Figure 1.

1.2 Summary of Previous Work with respect to Contamination

Following the GI undertaken on the landfill, an interpretative report was undertaken by Arup which included a generic quantitative risk assessment (GQRA) and detailed quantitative risk assessment (DQRA)³.

The Conceptual Site Model (CSM) developed as part of the interpretative report is included in Appendix A. The DQRA was developed for the Century Park development but it is considered that the CSM for the airport expansion is likely to have similar risks and therefore is a sound basis for development of the ground investigation strategy. A summary of the findings of the DQRA report is provided below.

1.2.1 Human health

The ground investigation results to date suggest that the chemistry of the landfill presents little risk to future site users. However, an appropriate cover layer will be required to protect the development from odours and the poor physical properties of the waste.

1.2.2 Controlled waters

Overall the groundwater monitoring undertaken to date provides little evidence that the landfill is causing significant contamination of the groundwater. This suggests that providing appropriate techniques are used during construction to prevent downward migration of contaminants, it is unlikely that development will result in significant contamination of the groundwater.

1.2.3 Ground Gas

Elevated concentrations of methane and carbon dioxide were detected during monitoring. The concentrations were noted to be more elevated in the areas where thicker deposits of more recent waste disposal (1970s/1980s) has taken place. The preliminary assessment indicated the gassing regime is a Characteristic Situation 4.

1.2.4 DQRA Conclusions

Further site investigation and groundwater quality monitoring is required to confirm these findings and to inform the design of the enabling works for the development.

³ Arup (September 2017) London Luton Airport Limited. Century Park Development, Airport Way- Landfill Area. Contamination Quantitative Risk Assessment.

2 Ground Investigation Strategy

2.1 Objectives for the investigation

The report on the initial DQRA identified the following objectives for further investigation:

1. *Provide means for up gradient monitoring of groundwater quality;*
2. *Provide more information on the chemistry of the 'industrial' waste contained in the older landfill material;*
3. *Provide further information on the weathering and solution of the top of the chalk;*
4. *Provide more information regarding the nature of each type/era of waste to determine:*
 - a. *its potential to be a source of pollution;*
 - b. *its potential for future gassing;*
 - c. *its likely settlement under the new development;*
 - d. *its capacity to be an obstruction to piling;*
 - e. *check for radionuclides; and*
 - f. *establish the quantity of inert daily cover or construction waste materials.*
5. *Complete the network of gas monitoring installations;*
6. *Inform the design of foundations;*
7. *Provide further installations to monitor leachate;*
8. *Inform the design of earthworks involving waste; and*
9. *Survey the drain that passes through the landfill.*

2.2 Basis for strategy

The strategy for the design of the GI to achieve these objectives has been developed based on a systematic review of the following:

- GI work required to adequately characterise the potential pollutant linkages (PPLs) identified in the CSM in the DQRA to determine their significance;
- GI work required to inform the wider understanding of the site and geotechnical conditions, which is needed to:
 - develop the ground model;
 - characterise the waste; and

- inform the design of earthworks and foundations.

2.3 Guidance on the investigation of contaminated land

In designing this ground investigation strategy, reference has been made to the guidance documents below:

- British Standards Institution (2011) Investigation of potentially contaminated sites- Code of practice BS10175:2011 +A1:2013
- British Standards Institution (2013) Guidance on investigations for ground gas- Permanent gases and volatile organic compounds (VOCs). BS 8576
- British Standards Institution (2017) Soil quality- Part 100: Guidance on the selection of sampling standards. BS ISO 18400-101
- British Standards Institution (2017) Soil quality- Part 101: Framework for the preparation and application of a sampling plan. BS ISO 18400-101
- British Standards Institution (2017) Soil quality- Part 102: Selection and application of sampling techniques. BS ISO 18400-102
- Chartered Institute of Environmental Health (2008) The Local Authority Guide to Ground Gas
- CL:AIRE (2009) Parameterisation of Aquifer Hydraulic Properties: A Contaminants Hydrogeology Perspective. Technical Bulletin TB4.
- CIRIA Report 131 (1993). The measurement of methane and other gases from the ground
- CIRIA Report 151 (1995) Interpreting measurements of the gas in the ground
- CIRIA Report 665 (2007) Assessing risks posed by hazardous ground gases to buildings.
- CIRIA Report 682 (2009) The VOCs Handbook. Investigation, assessing and managing risks from inhalation of VOCs at land affected by contamination.
- Department of the Environment, Transport and Regions (1994) CLR Report no. 4- Sampling Strategies for Contaminated Land.
- Department for Environment Food and Rural Affairs (2006) Industry Profile. Industrial activities which have used materials contamination radioactivity.
- Environment Agency (2000) Secondary model procedure for the Development of Appropriate Soil Sampling Strategies for Land Contamination. R&D Technical Report P5-066/TR
- Environment Agency (2001) Land Contamination: Technical Guidance on Special Sites: MoD Land. R&D Technical Report P5-042/TR/01
- Environment Agency (2001) Land Contamination: Technical Guidance on Special Sites: Nuclear Sites. R&D Technical Report P5-042/TR/06

- Environment Agency (2003) Guidance on Monitoring of Landfill, Leachate, Groundwater and Surface Water
- Environment Agency (2004) Model Procedures for the Management of Land Contamination
- Environment Agency (2004) Guidance for monitoring trace components in landfill gas
- Environment Agency (2006) Guidance on the design and installation of groundwater quality monitoring points
- Institute of Waste management (1998) Monitoring of landfill gas
- NHBC (2007) Guidance on evaluation of development proposals on sites where methane and carbon dioxide are present
- Safegrounds (2012) Nuclear Industry Group for Land Quality. Industry Guidance. Qualitative Risk Assessment for Land Contamination, including radioactive contamination.

2.4 Ground Investigation Rationale

2.4.1 Characterise PPLs

The GI required to assess the significance of each of the potential pollutant linkages (PPL) identified in the Arup DQRA report is set out in Table 1. The specific element of the PPL linkage being targeted by the GI is also indicated as follows:

S – source characterisation

P – pathway assessment

R – receptor monitoring

This sets out where work needed and identifies the frequency of sampling or testing where this is prescribed by guidance. The techniques proposed are described in section 3 and sampling and analytical strategies for those elements not prescribed by guidance are provided in sections 4 and 5.

Table 1 Summary table of potential pollutant linkages and proposed ground investigation

Receptor	PPL no.*	PPL	PPL element target and proposed GI	Proposed GI	Justification
Future users e.g. workers/members of the public	1	Ground gases from former landfill e.g. methane-migration into future buildings and build-up of gases	S -confirmation and determination of gas generation potential of the waste P -ground gas monitoring across site	32 boreholes 23 Window samples	Supplement current monitoring network and confirm current gassing regime. The requirements for number of monitoring points, frequency and duration of ground gas monitoring is detailed in a number of best practice guidance documents including CIRIA 665 and Local Authority Ground Gas Guidance. For older domestic landfills (moderate hazard potential) and low sensitivity of end use it details a spacing of 25-75m spacing. The higher end of the spacing has been adopted as continuous monitoring techniques, in conjunction with conventional spot sampling to give additional confidence in the ground gas regime. 75m spacing across 450,000 m ² site is equal to 80 locations, 24 locations have been undertaken previously.). Therefore 56 locations are required across the site. This is proposed to be a mixture of deeper (boreholes) and shallow locations (window samples). Due to site access constraints, achieving the required number of locations is unlikely to be possible and a total of 55 locations are proposed.
	5 & 22	Soils/waste- Direct contact e.g. dermal contact, soil ingestion.	S - confirmation and determination of nature and extent of contamination in soils and waste	76 trial pits Testing of samples from boreholes and window samples undertaken for PPL 1	Supplement the existing information and confirm conditions. Trial pits to inform shallow conditions (between 3-6 m bgl) as this is the material most likely to require management during the earthworks and may be reused within the development.
		Direct or indirect contact with radionuclides- incurring radiation dose by indirect dose received from ingestion of radium (or other alpha emitting contaminated material) or direct risk from contact with beta emitters such as Carbon-14 or Caesium-137	S - confirmation and determine the nature of and extent of any radiological contaminants in the waste	10 boreholes in older waste (<i>included in the 32 total detailed in PPL no.1</i>)	Radioactive materials (if present) will be limited to the earlier waste in the landfill which was deposited prior to the introduction of the Radioactive Substances Act in 1963. Boreholes into older waste will include measures to check for presence of radioactive substances in the waste. Unlikely to be direct contact with older wastes in proposed development but arisings from piling and foundations activities may be reused, therefore testing will determine if suitable for reuse in development.
	25	Inhalation of soil derived dusts	S - confirmation and determination of nature and extent of contamination in soils and waste	Testing of samples from trial pits undertaken for PPL 5 & 22	Supplement the existing information and confirm conditions. Trial pits to inform shallow conditions (between 3-6 m bgl) as this is the material most likely to require management during the earthworks and may be reused within the development.
	8 & 29	Inhalation of vapours from VOCs in the waste/soils	S - confirmation and determination of nature and extent of volatile contaminants in soils and waste P -soil vapour monitoring across site	Testing of samples from boreholes and trial pits undertaken for PPL 5 & 22	Previous exploratory GI did not indicate any specific sources of volatile organic contaminants (VOCs), therefore testing to be undertaken in non-targeted manner from boreholes being undertaken for other PPLs in order to confirm concentrations of VOCs at the site. Supplement existing information with further soil vapour monitoring. Monitoring to be undertaken from selected ground gas boreholes undertaken as part of PPL no. 1.
	8	Volatile radionuclides occupying buildings overlying radioactive land contamination	S - confirmation and determine the nature of and extent of any radiological contaminants in the waste P -volatile radionuclide monitoring (if required)	Testing of samples from boreholes made into the older waste undertaken for PPL 5 & 22	Boreholes into the deeper older waste to determine the potential radiological risks. If radionuclides detected which are considered to potential risks through volatilisation then monitoring will be undertaken for volatile radionuclide compounds.
	15	Landfill leachate- direct contact e.g. dermal contact, soil ingestion	n/a	n/a	No specific investigation required for this PPL as determined in DQRA that no potential for future users of the site to come into direct contact with landfill leachate. However the extent and nature of landfill leachate will be determined as part of the assessment of other PPLs.

Receptor	PPL no.*	PPL	PPL element target and proposed GI	Proposed GI	Justification
Adjacent site users (e.g. residential housing and other buildings on Luton Airport)	2	Ground gases from former landfill e.g. methane-migration off-site through preferential pathways and build-up of gases	P- determine potential for ground gas to migrate off-site through preferential pathways	8 boundary gas monitoring locations (comprising 4 boreholes and 4 window sample locations)	Houses lie within 50m of the northern boundary of the landfill in the head of a dry valley – it is likely that there is no impermeable clay with flints layer present which would inhibit gas migration. The nature of the chalk means there may be fracture flow. Table 5.2 in Local Authority ground gas guidance details recommended range of typical borehole spacing for boundary monitoring to assess off-site conditions. For fissure or fracture flow dominated permeable strata (for example blocky sandstone or igneous rock) and development within 150 m, the borehole monitoring spacing should be 5-20 m. A mid-range of 12.5 m has been selected to assess potential risks on the section of the northern boundary closest to the houses and where it is a less sensitive land use (commercial properties) a lower frequency of 50m spacing has been used. The northern boundary is approximately 200 m in length and therefore 11 locations are required. Due to access restrictions along the northern boundary (roadway, limited space on pavements and sloping ground), achieving the required number of boreholes along this boundary is unlikely to be possible. 8 locations have been placed along available parts of the boundary.
	2			19 boundary gas monitoring locations (comprising 6 boreholes and 13 window samples locations)	Other areas surrounding the landfill considered to be lower risk. Adjacent to the west and south is London Luton Airport. To the north east are houses at a distance of between 90 and 400 m. To the east is agricultural land, with no development. Clay with flints is present on the sides of the valley which is likely to act to impede flow of gas. Table 5.2 in the Local Authority ground gas guidance details recommends a range typical borehole spacing for boundary monitoring to assess off-site for Uniform low permeability strata (for example clay); development within 150 m of 10-50 m, development within 250 m of 20-50 m and where there is no development 50-150 m. The actual boundary of landfilling has been assumed for these distances, rather than the EA boundary which includes an area in the northeast which has not been landfilled. Therefore the following is required: <ul style="list-style-type: none"> where the houses are closest on the north eastern boundary, a 30 m spacing (mid-point of 10-50 m) has been assumed for half of the eastern boundary (300 m length at 30 m spacing = 10 locations) the remaining part of the eastern boundary a wider spacing of 100 m (mid-point of 50-150m) of has been assumed due to no development within 250 m (300 m length spacing at 100 m spacing = 3 locations). there is no development to the south of the landfill site, it is either agricultural land or airport land without any structures e.g. runway, therefore a wider spacing of 100 m (mid-point of 50-150 m) of has been assumed (660 m length at 100 m spacing = 7 locations). There are currently already 2 ground gas monitoring locations on this boundary, therefore a further 5 locations are required. Due to ecological constraints (Badger Setts), achieving the required number of boreholes along this boundary is unlikely to be possible and 4 locations have been placed along available parts of the boundary. the airport is adjacent to the west of the landfill, the nearest airport building is 250m from the western edge of the landfill, with the exception of two hangars which have been built over the landfill and some additional hangar buildings approximately 150m northwest of the landfill boundary. Due to the low sensitivity of these developments a wider spacing of 100m (mid-point of 50-150m) has been assumed (1000m length at 100m spacing = 10 locations). There are currently 3 ground gas locations on this boundary, therefore a further 7 locations are required. Due to restrictions on accessing airside, achieving the required number of boreholes along this boundary is unlikely to be possible. 2 locations have been placed along available parts of the boundary.
	10 & 26	Soils/waste- inhalation of airborne contaminants and microorganisms	S- confirmation and determination of nature and extent of contamination in soils and waste	Testing of samples from trial pits undertaken for PPL 5 & 22	Supplement the existing information and confirm conditions. Trial pits to inform shallow conditions (within 6m bgl) as this is the material most likely to require management during the earthworks and may be reused within the development.
	10 & 26	VOCs within the landfill- migration of volatile contaminants through preferential pathways and inhalation of vapours	P- determine potential for VOCs to migrate off-site through preferential pathways	Included in the work proposed for PPL 2	Supplement existing information and confirm condition – VOC monitoring from selected ground gas boreholes along boundary to check for VOC migration from landfill.
	Construction workers and future maintenance groundworkers	3,4,20 & 21	Soils/waste- Direct contact e.g. dermal contact, soil ingestion.	S- confirmation and determination of nature and extent of contamination in soils and waste	Testing of samples from trial pits undertaken for PPL 5 & 22
3,4,20 & 21		Direct or indirect contact with radiological waste- incurring radiation dose by indirect dose received from ingestion of radium (or other alpha	S- confirmation and determine the nature of and extent of any	Testing of samples from boreholes made into the older waste	Radioactive materials (if present) will be limited to the earlier waste in the landfill which was deposited prior to the introduction of the Radioactive Substances Act in 1963. Boreholes into older waste to check for presence of radioactive substances in the waste.

Receptor	PPL no.*	PPL	PPL element target and proposed GI	Proposed GI	Justification
		emitting contaminated material) or direct risk from contact with beta emitters such as Carbon-14 or Caesium-137 during piling works.	radiological contaminants in the waste	undertaken for PPL 5 & 22	
	6,7,27&28	Inhalation of vapours from VOCs in the waste/soils	S- confirmation and determination of nature and extent of volatile contaminants in soils and waste P- soil vapour monitoring across site	Testing of samples from boreholes and trial pits undertaken for PPL 5 & 22	Previous exploratory GI did not indicate any specific sources of volatile organic contaminants (VOCs), therefore testing to be undertaken in non-targeted manner from boreholes being undertaken for other PPLs in order to confirm concentrations of VOCs at the site. Supplement existing information with further soil vapour monitoring. Monitoring to be undertaken from selected ground gas boreholes undertaken as part of PPL no. 1.
	13&14	Landfill leachate- direct contact e.g. dermal contact, soil ingestion	S- confirmation of presence, extent and quality of leachate within the landfill	5 landfill leachate collection wells, See PPLs no. 9 & 19	Supplement the existing information and confirm current conditions. Leachate conditions at the landfill will be determined as part of PPLs no. 9 & 19 below.
	11,23&24	Inhalation of soil derived dusts	S- confirmation and determination of nature and extent of contamination in soils and waste	Testing of samples from boreholes and trial pits undertaken for PPL 5 & 22	Supplement the existing information and confirm conditions. Trial pits undertaken to inform shallow conditions (within 6m bgl) this is the material most likely to require management during the earthworks and that future construction workers and maintenance groundworkers are likely to come into contact with.
Controlled waters- Principal aquifer in Chalk	9&19	Driving of contaminants downward during any future piling	S- confirmation of presence, extent and quality of leachate within the landfill.	5 landfill leachate collection wells	Supplement the existing information and confirm current conditions. Non-targeted general spread across site to try and determine presence of leachate across landfill. Environment Agency guidance LFTGN02 is mainly aimed at sites with current waste management licence or environmental permit, however some of the principles are applicable to historic sites and it provides a useful framework. The guidance details an appropriate number of leachate monitoring points as one quality point per 5 ha. Landfill area is 44.7ha (excluding area not filled on EA boundary), this would equal 9 monitoring locations to meet guidance. 4 wells present from previous ground investigation, therefore 5 additional wells required. Boreholes to be installed which are slotted to base of waste and then 1 m plain section sump in chalk for collection of leachate.
	16	Downward migration of contaminants in the landfill into aquifer	P- determine hydrogeological conditions at the site and changes with depth in the chalk. R- undertake regular monitoring of the groundwater beneath the landfill and off-site.	5 deep groundwater boreholes	Supplement the existing information and confirm current conditions. Hydrogeological conditions to be determined by 5 no. deep boreholes which penetrate at least 20m below lowest groundwater level. These locations will also assess the weathering and solution features in the top of the chalk. Locations will be designed to complement existing groundwater monitoring locations and will be used to verify groundwater monitoring results being undertaken as part of the long term monitoring programme. Parallel to this further investigation there is supplementary gas and groundwater monitoring being undertaken on the boreholes from the preliminary investigation, which will provide robust data on the variation in conditions within the landfill.
	30	Contaminants in groundwater associated with Luton Airport Lateral migration in groundwater onto site	P- determine groundwater flow direction R- undertake regular monitoring of the groundwater beneath the landfill and off-site	2 off-site boreholes	Environment Agency guidance LFTGN02 details that at least one location should be installed upgradient. Allowance has been made for 2 deep boreholes off-site which penetrate at least 20m below lowest groundwater level. 2 locations have been allowed to ensure variability in groundwater is accounted for.
	-	Migration of contaminants via preferential pathways i.e.	P- determine whether drain passing through landfill provides a preferential pathways for contaminants	Survey drain passing through landfill	CCTV proposed to survey drain. CCTV survey being undertaken by Pell Frischmann who are designing the access road.
Controlled waters- Potable water groundwater abstraction	16	Migration of contaminants in groundwater beneath landfill to groundwater abstraction	P- determine hydrogeological conditions at the site and changes with depth in the chalk. R- undertake regular monitoring of the groundwater beneath the landfill and off-site.	5 deep groundwater boreholes. See PPL no. 16	Parallel to this further investigation there is supplementary gas and groundwater monitoring being undertaken on the boreholes from the preliminary investigation, which will provide robust data on the variation in conditions in the landfill. This includes monitoring of locations off-site from the landfill to determine whether migration of contaminants is occurring.

Receptor	PPL no.*	PPL	PPL element target and proposed GI	Proposed GI	Justification
Building material and fabric	12, 17	Direct or indirect contact with contaminated soils, waste, leachate or vapours which affecting building materials	S- confirmation and determination of nature and extent of contamination in soils and waste S- confirmation of presence, extent and quality of leachate within the landfill.	Testing of samples from boreholes and trial pits undertaken for PPL 5 & 22 Leachate- See PPLs no.s 9 &19	Supplement the existing information and confirm current conditions. Leachate conditions at the landfill will be determined as part of PPLs no. 9 & 19.
Adjacent agricultural crops and allotments	18	Leachate breakout and plant uptake	None required	None required	No specific GI required as will be determined by the GI work undertaken to determine extent of leachate in the landfill and the ongoing leachate and groundwater monitoring

*PPL number relates to numbering to PPLs identified in the Arup DQRA report

2.4.2 Wider understanding of the site and geotechnical conditions

The characterisation of the PPLs is a key driver for the GI but information is also needed to refine the ground model and understand the nature and distribution of the different materials in the landfill. This will inform:

- The design of enabling and remediation works;
- The design of foundations;
- The costing of different options; and
- The estimation of settlement and other physical performance of the waste.

The DQRA identified a number of objectives for investigation to provide this information. The proposed GI with respect to the PPLs, detailed in Table 1, includes locations which will also provide information to help meet these objectives. However some additional works will be required. The additional work required is set out in Table 2 (for completeness the objectives that relate to the PPLs are included but greyed out).

Table 2 How the proposed GI will meet objectives for wider/geotechnical understanding

	Objective identified by DQRA	Further work required
1	Provide means for up gradient monitoring of groundwater quality;	Covered by work to characterise the PPLs
2	Provide more information on the chemistry of the 'industrial' waste contained in the older landfill material;	Covered by work to characterise the PPLs
3	Provide further information on the weathering and solution of the top of the chalk;	9 of the boreholes distributed across the site will be advanced from the base of the waste using CPT through the clay and into the top of the chalk. 5 of the boreholes (not the leachate, CPT or groundwater boreholes) will be advanced to 10m into the chalk.
4	Provide more information regarding the nature of each type/era of waste to determine:	-
	• its potential to be a source of pollution;	Covered by work to characterise the PPLs
	• its potential for future gassing	Covered by work to characterise the PPLs

	Objective identified by DQRA	Further work required
	<ul style="list-style-type: none"> its likely settlement under the new development 	Detailed inspection of the waste and forensic analysis of its components. Grid of super heavy dynamic probes across site to determine if obstructions present (designed to complement the dynamic probes undertaken during previous GI). Geotechnical testing of 'cover' materials.
	<ul style="list-style-type: none"> its capacity to be an obstruction to piling 	
	<ul style="list-style-type: none"> check for radionuclides 	Covered by work to characterise the PPLs
	<ul style="list-style-type: none"> establish the quantity of inert daily cover or construction waste materials. 	Detailed inspection of the waste and forensic analysis of its components.
5	Complete the network of gas monitoring installations.	Covered by work to characterise the PPLs
6	Inform the design of foundations.	As for objective 3 for the clay and shallow chalk plus the 7 groundwater monitoring holes will be advanced and sampled using techniques that will provide geotechnical information on the natural materials beneath the landfill.
7	Provide further installations to monitor leachate.	Covered by work to characterise the PPLs
8	Inform the design of earthworks involving waste.	<p>Trial pits dug to achieve other objectives will be used to characterise the waste in the top few metres, which is most likely to be the waste requiring management during the earthworks.</p> <p>Boreholes drilled to achieve other objectives will be used to also inform type and era of waste.</p>
9	Survey the drain that passes through the landfill.	Covered by work to characterise the PPLs

3 Site investigation methodology

Two main investigation techniques (trial pits and boreholes) have been proposed for the ground investigation. These have been selected based on the ground conditions previously encountered as well as the potential sources, receptors and associated pollutant pathway identified in Table 1.

The follow investigation methods will be used:

Method	Number proposed	Comment
Trial Pitting	76	16 trial pits will be undertaken to a maximum depth of 6mbgl with the remainder to a maximum depth of 4.5mbgl. Trial pitting is considered the most cost effective and efficient method to examine and sample shallow surface soils/waste conditions, as well as allowing detailed examination of the waste types encountered.
Boreholes-	54	Boreholes in the waste will be drilled using Sonic drilling techniques. Sonic is being used over other more common drilling techniques as it provides very good recovery of material in the waste, with minimal disturbance and little or no drilling fluids. This enables good records of the nature of the waste to be obtained with minimal disturbance from the drilling. For boreholes which are being extended into the Chalk the rig will be switched to Geobore-S to maximise recovery of the chalk and minimise disturbance.
Window Sampling	40	Window sampling will be used to obtain samples at shallow depth and as a cost effective way to install some of the gas monitoring wells.
Cone Penetration Testing	9	The chalk at shallow depth is weathered to a soil and is difficult to sample and can produce misleadingly low strength results in dynamic penetration tests. Cone penetration testing can provide a more accurate measure of the strength of this poorer material.
Dynamic Cone Penetration Testing	76	One of the key risks of developing on a landfill is that obstructions in the waste obstruct the installation of piles. Dynamic cone tests are a cost effective way to detect and map obstructions and will provide information regarding the consistency of the waste across the tip.

Borehole standpipes will be installed depending on their intended objectives as follows:

- **Leachate** – 1 m seal at surface and then slotted to base of waste. There will then be a 1 m plain section in the chalk to act as a sump for collection of leachate. Aquifer protection measures will be installed prior to commencing drilling into the Chalk.
- **Gas** – the gas boreholes will be installed within the waste on site. The depths and locations of each response zone will be determined based on the conditions encountered. Locations on the boundary will be installed at varying depths to assess potential migration routes i.e. travel in fractures in chalk and migration along service routes.
- **Groundwater** – the groundwater boreholes will be installed within the chalk in the saturated zone. The depths and locations of each response zone will be determined based on the conditions encountered and the results of further testing undertaken on the existing boreholes. Single packer tests will be undertaken on selected boreholes during drilling works to inform the response zones (see Section 3.3).

Geophysical techniques comprising a downhole shear wave velocity survey is proposed to be used in some boreholes to obtain information of rock properties of the chalk.

4 Sampling strategy

4.1 Soil/waste

The assessment of the PPL's associated with direct contact or inhalation, and the design of the remediation and enabling works, will rely upon the GI providing sufficient data to characterise the physical and chemical properties of the waste.

The heterogeneity and large volume of the waste means that it will be prohibitively expensive to 'map' the materials and contamination it contains by random sampling. However the following information is known to provide a basis for an investigation strategy:

- Detailed work has been undertaken during the Preliminary Risk Assessment (PRA) and following the preliminary investigation to understand and map the phases of filling of the landfill and the likely nature of waste they contain;
- The contents of the landfill are chaotic but the majority of the material originated from a relatively limited number of sources and the waste from each source can be recognised in samples; and
- The properties of the material from each era and source are likely to lie within a range that is characteristic and can be established by testing.

Based on this the following approach is proposed:

- Detailed visual inspection of each part of the waste recovered during GI;
- Good soil logging with clear descriptions in accordance with BS 5930, including observations of visual and olfactory contamination, together with an estimate of degradable organic content (DOC) will be key to understanding the risk posed by the waste and proportion of biodegradable material;
- Use the information gathered to map the location of the material from different eras and sources; and
- Review of the data gathered as the investigation progresses and compare it to expectations. Use this to detect any material that suggests a significant source that has not previously been identified and schedule further investigation if needed; and

The boreholes, window samples and trial pits proposed in section 2 will provide the following sampling frequencies in the top part of the landfill and in the different eras of waste suggested by the work to date:

Material sampled	Metres of ground to be examined (m)	Volumetric frequency (m ³ of waste/m examined)
Top 5m of landfill	820	2745
1972 - 1982	495	3025

Material sampled	Metres of ground to be examined (m)	Volumetric frequency (m ³ of waste/m examined)
1961 - 1972	150	5310
1955 – 1961	220	7095
1947 – 1955	65	5840
Pre 1947 waste	25	5700

The majority of the landfill was probably deposited in layers of between 0.5 and 1.0m so each metre of waste examined in a hole represents at least one discrete ‘sample’ of the population of material from that source or era. Overall we consider the above frequency of sampling and inspection to be sufficient to inform a robust characterisation. Where logging of material recovered suggests that material from different sources or a different era is present further investigation and sampling will be carried out to characterise it and establish its extent.

Sufficient physical and chemical testing will be done to adequately characterise the chemical composition and physical properties of the waste from each source and era. The actual rate of testing will be informed by the nature and variation of the material as established by the visual inspection but we estimate that between 30 and 100 samples will need to be tested from each era and source. Samples from the material at shallow depth that are likely to be encountered by the proposed works will be prioritised.

Samples from the landfill will be screened for radionuclides.

4.2 Groundwater

Single packer pumping tests will be carried out within the chalk in selected boreholes. The packer testing will be undertaken as the borehole progresses at 10m intervals and will provide information on changes in hydraulic conductivity with depth. The results will inform the installation details.

3 borehole locations will be installed with groundwater data loggers to measure the variability in groundwater levels, at least one will be upgradient of the landfill site

Sampling of the groundwater in the boreholes will be undertaken, consistent with the methodology established for the supplementary gas and groundwater sampling and monitoring which is currently being undertaken. This is included in Appendix B.

4.3 Gas and vapour

Sampling of the gas and vapours in the boreholes will be undertaken consistent with the methodology established for the supplementary gas and groundwater sampling and monitoring programme which is currently being undertaken. Details are included in Appendix B.

4.4 Landfill leachate

Sampling of the landfill leachate collected in the sumps in the boreholes will be undertaken consistent with the methodology established for the supplementary gas and groundwater sampling and monitoring being undertaken. This is included in Appendix B.

5 Analytical strategy

The analysis required has been determined from the work undertaken to date. The PRA and DQRA identified there is a broad range of potential contaminants which may be present within the landfill. The sections below detail the strategy for analysis for each media.

5.1 Soil/waste analysis

It is envisaged that the majority of soil/waste samples will be analysed for a broad suite of contaminants, consistent with the previous phase of GI. The following additional analysis will be undertaken:

- Bulk samples of the waste for compositional sorting/forensic analysis of waste, to determine the percentage of components of the waste will be done on site;
- Leachability testing to determine the potential for contaminants to be leached from the soil/waste;
- Radionuclide testing, where radiological screening identifies the need;
- Moisture content; and
- Loss on ignition.

5.2 Landfill leachate analysis

Where sufficient sample of landfill leachate is collected within the sumps testing will include (but not be limited to):

- Major elements and ions such as calcium, magnesium, iron, sodium, ammonia, carbonate, sulphate and chloride;
- Trace metals such as manganese, chromium, nickel, lead and cadmium;
- pH,
- Chemical Oxygen Demand (COD), Biological Oxygen Demand (BOD) & Total Organic Carbon (TOC) ;
- Ammoniacal nitrogen;
- Fatty acids (as C); and
- Radionuclide testing if identified in the groundwater and soil/waste.

5.3 Groundwater analysis

Analysis of groundwater samples will be undertaken consistent with the supplementary gas and groundwater sampling and monitoring programme detailed in Appendix B.

5.4 Gas and vapour analysis

Analysis of gas and vapour samples will be undertaken consistent with the supplementary gas and groundwater sampling and monitoring programme, included in Appendix B.

Continuous gas monitors will be installed in some of the boreholes to provide information on the frequency of gas concentration and flow measurements over time. Ground gas purge and recovery testing will be undertaken on all boreholes where continuous gas monitors are installed to measure the rate of ground gas recovery. This is intended to be used in conjunction with conventional spot monitoring to provide robust information with regards to gassing regime at the site.

6 Constraints and Limitations

The following constraints are currently present on site that may affect the ground investigation strategy:

6.1 Badgers and other ecological constraints

Ecological surveys have indicated badgers are present within two areas of the former landfill and there is an exclusion zone around these locations where it is not possible to undertake GI or operate heavy machinery. This area is indicated on Figure 1.

The southern section of Wigmore Park is designated as a County Wildlife Site (CWS), recognised for its neutral and calcareous grassland and adjacent hedgerows. The extent of the CWS is indicated on Figure 1. CWSs do not have legal protection, however the method of working in this area should be agreed with an ecologist to avoid any unnecessary damage to the habitat.

An ecologist will be on site to agree the position of each investigation location and provide advice of any additional constraints during the GI.

6.2 Access restrictions

Some areas of the former landfill are within the airport airside boundary and as such access is restricted. Therefore GI locations have been positioned where possible to avoid restricted access areas.

6.3 Invasive species

The ecological survey identified a large area of Japanese knotweed present to the north of the balancing pond. It is thought that the knotweed stand occupies an area of at least 100 m².

6.4 Unexploded Ordnance (UXO)

London Luton Airport was heavily involved with WWII and therefore there is a risk of UXO being present within the wider area, including the landfill. Therefore special provisions in the GI will be required to mitigate the potential risks of encountering a UXO.

6.5 Vegetation

In the south of the site there are several areas which are heavily vegetated and not easily accessible. Therefore, access to these areas may not be possible for GI.

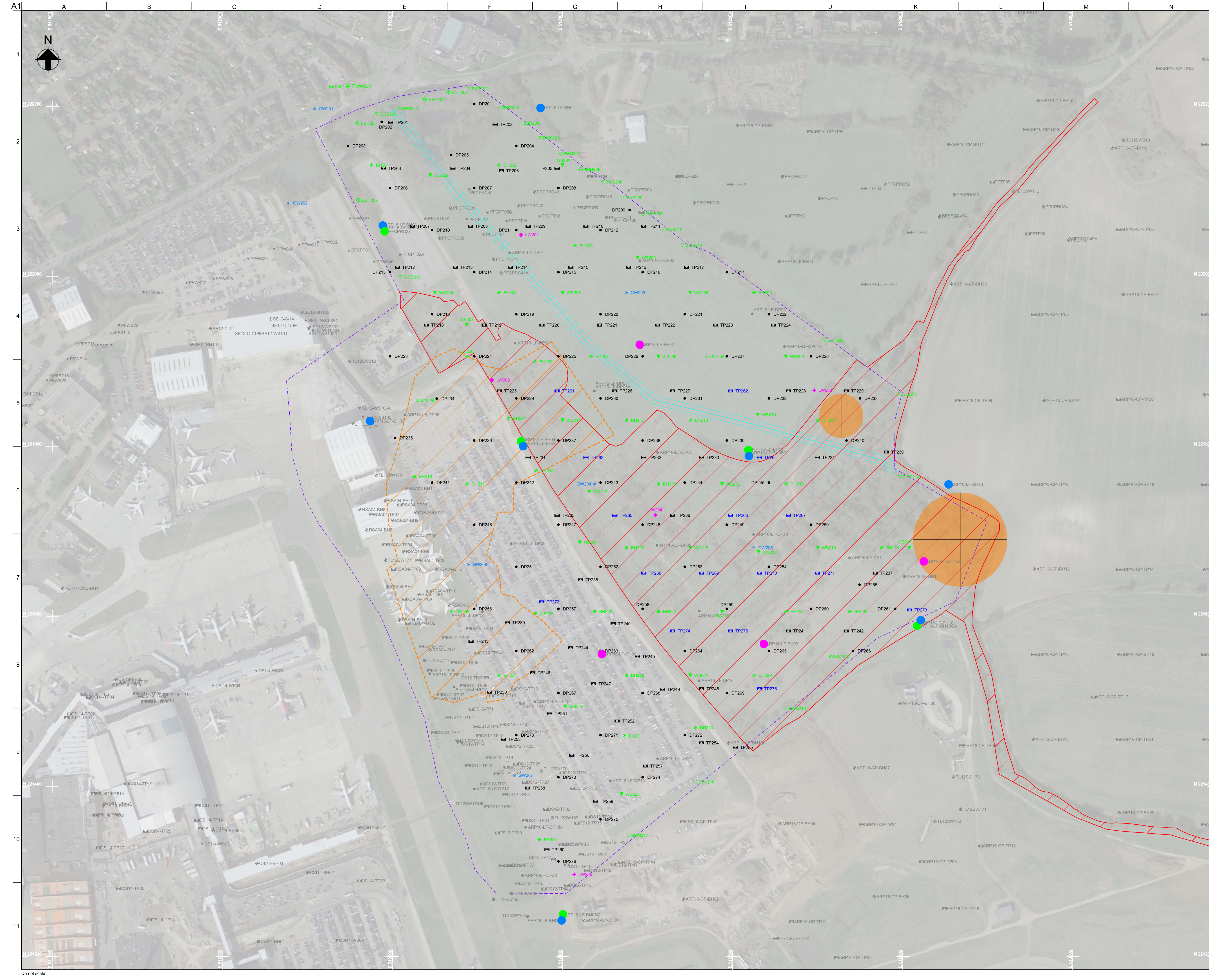
6.6 Topography

The southern boundary of the landfill has a steep bank, therefore it may not be possible to access all GI locations in the south of the site.

6.7 Design limitations

The GI has been designed to investigate the entire site and is not linked to a fixed design for the development. Therefore, it is not possible to target areas which may have a higher impact on the environment i.e. where cutting into the waste will take place. The GI has been designed to provide sufficient information to inform the PPLs identified in the CSM. However, further GI or trials may be required to inform the detailed design.

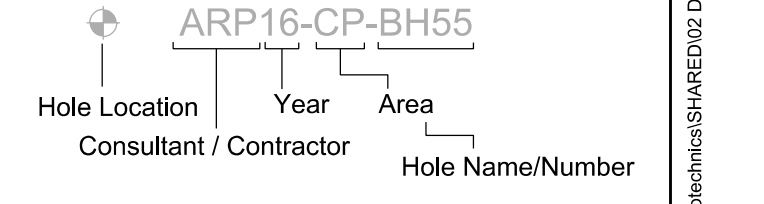
Figures



Legend: The items in this legend are interactive. Click to alter the view.

- Indicative Landfill Extents
- Badger Sett Location and Standoff Zone
- Extent of 1947 Landfill
- Wigmore Park CWS
- Thames Valley Drain (CCTV survey)

Previous GI Location



Previous Installation Location and Type

- Leachate
- Gas
- Groundwater

Proposed GI Location

- BH201 - 233 Boreholes
- BBH201 - 211 Boundary Borehole
- BWS201 - 220 Boundary Window Sample
- WS201 - 223 Window Sample
- GW201 - 207 Groundwater Hole
- LW201 - 205 Leachate Borehole
- DP201 - 280 Dynamic Probehole
- TP201 - 260 Shallow Trial Pits (max depth 4.5m)
- TP261 - 276 Deep Trial Pits (max depth 6m)

Proposed Install Type

- Colour of proposed location denotes the install type:
- Gas
 - Groundwater
 - Leachate

Proposed GI Layout

Clear All

02	22/02/18	HS	YM	TB
01	05/12/17	IJ	YM	TB

For Information

Issue	Date	By	Chkd	Appd

ARUP

The Arup Campus, Blythe Gate, Blythe Valley Park
 Solihull, West Midlands B90 8AE
 T +44(0)121 213 3000 F +44(0)121 213 3001
 www.arup.com

Client
London Luton Airport Ltd

Ground Investigation Strategy

Proposed Landfill Ground Investigation Locations

Figure 01

Scale at A1
 1:2000

Discipline
 Geotechnical

Job No
245580-00

Drawing Status
For Information

Drawing No
LLA-ARP-LF-XX-DR-G-00031

Issue
02

Appendix A

Conceptual Site Model from
DQRA

PPL No.	Sources	Pathways	Receptors	Qualitative Assessment of Risk	Justification of Qualitative Assessment of Risk
On-site					
1	Ground gases from former landfill e.g. methane	Migration into future buildings and build-up of gases	Future users e.g. workers/members of the public	Very High	GI data indicates elevated landfill gases, particularly in the areas of thicker more recent waste disposal in the north of the landfill. Further monitoring is required to characterise the risks from landfill gases fully. Risk to future development can be mitigated by appropriate design of ground gas mitigation measures.
2		Migration off-site through preferential pathways	Adjacent site users (e.g. residential housing and other buildings on Luton Airport)	Moderate	Development of the site may alter the ground gas regime and lead to migration of ground gases off-site. Further monitoring is required to characterise the risks from landfill gases fully.
3	Waste in former landfill	Direct contact e.g. dermal contact, soil ingestion	Construction worker	Low	Construction workers may be exposed to areas of landfill waste during future excavation. Any future excavation work would adopt appropriate site management protocols and PPE.
4			Future maintenance workers	Low	Maintenance workers may be exposed to areas of landfill waste during future excavation. Any future excavation work would adopt appropriate site management protocols and PPE.
5			Users of future development – general public/workers	Low	The GI indicated the risk to future occupants of the development is likely to be low. The future development will either be hardstanding or include an engineered cover layer, therefore there is unlikely to be any contact with waste material in the landfill.
6		Inhalation of vapours	Construction worker	Low	The risk assessment suggests that there are not significant concentrations of volatile contaminants presented within the landfill. However, this is based on limited monitoring and further GI and monitoring should be undertaken to confirm the results. Risk to construction workers and future maintenance workers is considered to be lower than future users as exposure is likely to be in outdoor air and therefore vapours will be diluted.
7			Future maintenance workers	Low	
8			Users of future development – general public/workers	Low	

PPL No.	Sources	Pathways	Receptors	Qualitative Assessment of Risk	Justification of Qualitative Assessment of Risk
9	Waste in former landfill	Driving of contaminants downward during any future piling	Principal aquifer in Chalk	Moderate	The risk assessment has indicated that based on current data there is unlikely to be a significant risk to the groundwater from the landfill. However, care will be required during construction not to create a pathway. Risk from piling and construction can be mitigated by completion of piling risk assessment report to determine appropriate assessment for pile design and construction.
10		Inhalation of airborne contaminants and microorganisms	Adjacent site users (e.g. residential housing and other buildings on Luton Airport)	High	Future works may involve some limited movement of waste i.e. for disposal or relocation, therefore there is the potential for generation of airborne contaminants. Potential to affect adjacent site users. Good site management practices and mitigation measures would reduce the potential risk. Any future works should have appropriate Management Plans in place.
11			Construction workers	Moderate	Construction workers may be exposed to areas of landfill waste during future excavation. Any future excavation work would adopt appropriate site management protocols and PPE.
12		Direct contact of foundations of future development	Foundations of future buildings	Moderate	Presence of landfill waste in contact with building foundations may cause damage to foundations through aggressive ground conditions. Site investigation data will be considered in the design of the foundation. Risk can be mitigated by appropriate design to select suitable foundation materials.
13	Leachate in former landfill	Direct contact e.g. dermal contact, soil ingestion	Construction workers	Low/Moderate	Construction workers may be exposed to areas of landfill leachate during future excavation. The GI indicates there is likely to be limited leachate present, but further investigation and monitoring is required to confirm the findings. Any future excavation work would adopt appropriate site management protocols and PPE.
14			Future maintenance workers	Low/Moderate	Maintenance workers may be exposed to areas of landfill leachate during future excavation. The GI indicates there is likely to be limited leachate present, but further investigation and monitoring is required to confirm the findings. Any future excavation work would adopt appropriate site management protocols and PPE.
15			Users of future development – general public/workers	Low	The future development will either be hardstanding or include an engineered cover layer, therefore there is unlikely to be any contact with any potential leachate in the landfill.
16			Downward migration of leachate	Principal aquifer in Chalk	Low/Moderate

PPL No.	Sources	Pathways	Receptors	Qualitative Assessment of Risk	Justification of Qualitative Assessment of Risk
					However, this is based on limited GI data and further investigation and monitoring is required to confirm the findings.
17		Direct contact with foundations of future development	Foundations of future buildings	Low/Moderate	Presence of leachate in contact with building foundations may cause damage to foundations through aggressive ground conditions. The GI indicates there is likely to be limited leachate present, but further investigation and monitoring is required to confirm the findings.
18		Leachate breakout and plant uptake	Adjacent agricultural crops and allotments	Low	No evidence of leachate breakout currently occurring. However, potential to affect conditions at site during development. The GI indicates there is likely to be limited leachate present, but further investigation and monitoring is required to confirm the findings.
19	Contaminants in perched water	Driving of contaminants downward during any future piling	Principal aquifer in Chalk	Low	The GI indicated the waste was relatively dry and no evidence of significant perched water in the landfill was encountered. Further investigation and monitoring is required to confirm the findings. Risk from piling and construction can be mitigated by completion of piling risk assessment report to determine appropriate assessment for pile design and construction.
20	Contaminants in Made Ground (capping material)	Direct contact e.g. dermal contact, soil ingestion	Construction workers	Low/Moderate	Construction workers may be exposed to areas with contamination in the Made Ground during future excavation. Any future excavation work would adopt appropriate site management protocols and PPE.
21			Future maintenance workers	Low/Moderate	Maintenance workers may be exposed to areas with contamination in the Made Ground during future excavation. Any future excavation work would adopt appropriate site management protocols and PPE.
22			Users of future development-general public/ workers	Low	The GI indicated the risk to future occupants of the development is likely to be low. The future development will either be hardstanding or include an engineered cover layer, therefore there is unlikely to be any contact with contaminants in the Made Ground
23		Inhalation of soil derived dusts	Construction workers	Low/Moderate	Construction workers may be exposed to areas of landfill waste during future excavation. Any future excavation work would adopt appropriate site management protocols and PPE.
24			Future maintenance workers	Low/Moderate	Maintenance workers may be exposed to areas of landfill waste during future excavation. Any future excavation work would adopt appropriate site management protocols and PPE.
25	Users of future development – general public/workers		Low	The future development will either be hardstanding or include an engineered cover layer, therefore there is unlikely to be any contact with the Made Ground.	

PPL No.	Sources	Pathways	Receptors	Qualitative Assessment of Risk	Justification of Qualitative Assessment of Risk
26		Inhalation of vapours	Adjacent site users (e.g. residential housing and other buildings on Luton Airport)	Moderate	There is the potential for soil derived dusts which contain contaminants to be generated during construction works. The GI indicated that the levels of contaminants in the landfill are not significantly elevated. However, further site investigation is required to confirm the findings. Good site management practices and mitigation measures would reduce the potential risk. Any future works should have appropriate Management Plans in place.
27			Construction worker	Low/Moderate	Risk to construction workers and future maintenance workers is considered to be lower than future users as exposure is likely to be in outdoor air and therefore vapours will be diluted.
28			Future maintenance workers	Low/Moderate	
29			Users of future development – general public/workers	Low/Moderate	Volatil contaminants may accumulate within indoor air in future buildings. The risk assessment suggests that there are not significant concentrations of volatile contaminants presented within the landfill. However, this is based on limited monitoring and further GI and monitoring should be undertaken to confirm the results.
Off-site					
30	Contaminants in groundwater associated with Luton Airport	Lateral migration in groundwater onto site	Principal aquifer in Chalk	Moderate	Contaminants in groundwater from the adjacent site may migrate onto site. The results of the risk assessment suggest that the groundwater beneath the landfill may be affected by the low level 'halo' of chlorinated solvents which is present in the Luton and Dunstable area. Further site investigation and monitoring is required to confirm that the source of the chlorinated solvents is from an off-site source.

Appendix B

Supplementary gas and
groundwater sampling and
monitoring programme

Groundwater and Gas Monitoring Specification

SPECIFICATION

This specification sets out the requirements for monitoring existing borehole installations as described in the following Schedules:

Schedule 1: Information

Schedule 2: Scope of Works

Schedule 3: Method

Schedule 4: Chemical Testing Requirements

Annex A: Bill of Quantities

SCHEDULE 1: INFORMATION

S1.1 Location

The site is a former landfill located adjacent to London Luton Airport. This site is approximately 53 hectares and is located 2.5km south east of Luton, located off Eaton Green Road at Grid Reference TL 125218. The location is shown in Figure 1.

The landfill accepted waste from circa late 1930s until 1990s. Site investigation has shown that there is no basal liner to the landfill but a non-engineered cap is present in some areas of the site. A ground investigation was undertaken in 2016-2017, which involved the installation of a number of gas, groundwater and leachate monitoring wells. Initial monitoring was undertaken as part of this investigation work. Further monitoring now is required at the site to determine ground gas and contamination conditions.

The monitoring work is being carried out on behalf of London Luton Airport Limited (LLAL).

S1.2 Objectives

The objectives of the monitoring include:

- To establish whether there is any migration of contaminants from the landfill site and characterise their spatial extent;
- Determine the direction, rate and variability of groundwater flow and contaminant migration;
- Determine the baseline groundwater level, including variability and trends; and

- Determine baseline groundwater quality including variability and trends;
and
- Determine baseline gas concentrations including variability and trends.

S1.3 Terms of contract

The terms of contract will be NEC4 Engineering and Construction Short Contract. Details to be agreed with the successful tenderer.

SCHEDULE 2: SCOPE OF WORKS

S2.1 Scope

Monitoring for a period of 12 months at the site is required. Arup will review the monitoring results with regulators after 3 months and reserve the right to reduce or increase the frequency or duration of monitoring required. However for costing purposes it assumed that the following monitoring is required over a 12 month period as follows:

- Monthly monitoring for groundwater levels and samples taken at 17 groundwater quality monitoring points (GQMP);
- Monthly monitoring at 9 gas monitoring points and bulk gas/VOC samples taken every 2 months;
- Monitoring of leachate thicknesses and sampling every 2 months at 4 leachate monitoring wells; and
- Obtaining samples of non-aqueous phase liquids, where present.

The monitoring points are shown on Figure 2. The coordinates for the monitoring points are as follows:

Borehole ID	Easting	Northing	Elevation	Well depth (mbgl)	Monitoring location type
ARP16-LF-BH01	512374	222198	150.17	57.50	Groundwater
ARP16-LF-BH02	512174	221830	154.86	58.00	Groundwater
ARP16-LF-BH03	512189	222058	149.78	55.00	Groundwater
ARP16-LF-BH04	512353	221803	154.52	59.00	Groundwater
ARP16-LF-BH05	512400	221243	153.01	58.00	Groundwater
ARP16-LF-BH08	512619	221794	152.51	57.00	Groundwater
ARP16-LF-BH10	512819	221592	139.34	56.00	Groundwater
ARP16-LF-BH13	512854	221755	129.98	35.00	Groundwater
ARP16-CP-BH11	512854	222155	147.64	39.00	Groundwater
ARP16-CP-BH12	512955	221656	135.88	41.10	Groundwater
ARP16-CP-BH24	513155	221655	136.56	42.50	Groundwater
ARP16-CP-BH27	513254	222355	148.12	53.70	Groundwater
ARP16-CP-BH29	513254	221955	139.48	44.3	Groundwater
ARP16-CP-BH32	513254	221355	136.28	41.00	Groundwater
ARP16-CP-BH50	513654	221555	120.78	23.50	Groundwater
ARP16-CP-BH51	513668	221969	125.82	32.00	Groundwater
ARP16-CP-BH55	512858	221991	146.79	52.70	Groundwater
ARP16-LF-BH03G	512190	222057	149.84	6.00	Gas
ARP16-LF-BH04G	512352	221805	154.45	6.00	Gas
ARP16-LF-BH05G	512400	221245	153.02	6.00	Gas
ARP16-LF-BH08G	512619	221794	152.51	6.00	Gas

Borehole ID	Easting	Northing	Elevation	Well depth (mbgl)	Monitoring location type
ARP16-LF-BH10GA	512818	221591	139.39	5.00	Gas
ARP16-LF-BH06	512446	221556	155.92	13.00	Gas and Leachate
ARP16-LF-BH07	512491	221920	152.94	21.00	Gas and Leachate
ARP16-LF-BH09	512637	221568	153.16	14.00	Gas and Leachate
ARP16-LF-BH12A	512825	221665	146.26	11.00	Gas and Leachate

S2.2 Access

The Contractor shall in advance of each visit give notice of at least 7 working days to LLAL. Permits may be required for visiting certain boreholes (which lie within the airport boundary), sufficient time should be allowed for agreeing permits in advance. The successful tenderer will be given details of the requirements in this regard.

S2.3 Health and Safety

Not less than 14 days before the start of the first groundwater monitoring visit on the Contractor shall submit to Arup a statement of work describing in full the arrangements and methods the Contractor proposes to adopt in carrying out the site operations including full details of safety precautions. In addition, the statement of work shall incorporate a safety plan that includes, but is not limited to, the following:

- Specification for personal protective equipment to prevent ingestion of, inhalation of and skin contact with contaminated materials.
- Statement of safe working practices which will be employed to avoid or minimise contact with contaminated materials.
- Details of health and safety training undertaken by all levels of the work force.

The Contractor shall not subsequently amend the statement of work or any working practice or procedure contained therein without the prior consent of Arup.

S2.4 Risk assessment

The following table (overleaf) presents a risk assessment prepared by the designer of the monitoring strategy presented in this Specification. This table focuses on risks that are particular to the planned scope of work at this site.

Perceived risk	Mitigation	Responsibility
Uneven working areas – risk of injury to site users	Appropriate PPE and caution to be used when moving around the site	Contractor
Contamination in groundwater/leachate samples – risk of illness from contact with contaminants	Contractor to provide suitable PPE for sampling leachate	Contractor
Potential for ground gases – risk of explosion or asphyxiation from gas accumulation	All working areas to be designated ‘no smoking’ zones. Appropriate measures and caution to be used when gas monitoring/sampling.	Contractor
Security – risk of injury to site personnel from general public	Contractor to liaise with site owners as appropriate and avoid confrontation	Contractor

SCHEDULE 3: METHOD

The contractor shall use the following methods for monitoring and sampling.

S3.1 Groundwater and Leachate Levels

During each groundwater monitoring round, the Contractor shall investigate the presence of NAPL (prior to any purging) using an interface probe. At all groundwater installations an interface probe shall be used to determine the following:

- LNAPL surface level;
- groundwater surface level;
- DNAPL surface level.

The groundwater level shall be recorded relative to the top of the standpipe. The level of the top of the standpipe shall be determined quarterly.

No NAPL has been recorded at the site to date. However where NAPL is encountered, Arup shall be contacted immediately with details of its location and measured thickness. Arup will provide instruction at this stage for any additional sampling required. A rate should be provided in the bill of quantities for provision of the recovery and sampling of least one NAPL sample per monitoring round.

All groundwater monitoring probes and digital readout units shall be calibrated prior to monitoring visits according to their manufacturer's recommendation and at least at intervals not exceeding one month.

The measurements of the thickness of leachate within the leachate monitoring wells shall be undertaken with a probe suitably resistant to leachate.

The instrument readings shall be recorded on approved record sheets and submitted to Arup by 12.00 noon on the day after the readings were taken.

The following records shall be made for each set of readings:

- type of instrument
- instrument reference
- date and time of readings
- personnel taking the readings
- identification and reference of readout equipment used
- individual readings
- weather
- nearby construction activity or earthworks

- any other pertinent remarks.

S3.2 Sampling

S3.2.1 Groundwater

Groundwater samples shall be taken at the locations indicated in Figure 1 during each round of monitoring using micropurging techniques and field measurements using a flow cell. Samples shall be taken once the flow cell readings have stabilised.

The requirements of BS 10175 and BS 5667 apply to all water samples.

The measurements required from the flow cell are as follows:

Test	Units	Detection Limit	Degree of accuracy
pH	pH units	0.1	±0.1
Temperature	°C	0.1	±0.1
Dissolved oxygen	mgO ₂ /l	0.1	±0.1
Electrical conductivity	µS/cm	10	±2.0
Redox potential	mV	±1	±0.1

The time of sampling and carrying the test shall also be submitted.

Groundwater samples shall be stored in the dark at 4°C±2°C. Testing for Biological Oxygen Demand (BOD), Chemical Oxygen Demand (COD) and Ammoniacal Nitrogen shall be started within 24 hours of sampling.

Care shall be taken to ensure that no cross-contamination occurs either during extraction of the water sample from the sampling well (or water body) or whilst the sample is stored and handled prior to analysis. Depending on the suite of chemical or biological tests to be undertaken, several sub-samples of water may be required, using different types and sizes of container. Water samples shall be chemically fixed with an appropriate agent where necessary. Unless otherwise specified, water samples shall be filtered through a 0.45 micron membrane filter on site before any preservation fixing agents or techniques are applied.

Sufficient water samples shall be taken to allow laboratory testing of the parameters and to the detection limits detailed in Schedule 4.

S3.2.2 Ground Gas

Ground gas monitoring shall be undertaken using suitable equipment which is consistent with the requirements of BS 8576: 2013. Concentrations of methane and carbon dioxide shall be measured using infrared monitoring equipment.

The following gases shall be measured:

- flammable gases;

- hydrogen sulphide;
- carbon dioxide; and
- oxygen.

The monitoring equipment shall be capable of measuring gas concentrations to the following degrees of accuracy:

Gas type	Units	Degree of accuracy
Flammable Gases (incl. Methane)	%LEL	1.0
	%v/v	0.1
Hydrogen Sulphide	ppm	0.5
Carbon Dioxide	%v/v	0.1
Oxygen	%v/v	0.1

The procedure shall be as follows:

1. Measure initial barometric pressure, ambient temperature and differential gas pressure in the standpipe.
2. Take initial gas concentration measurements from each tap valve with portable gas monitoring equipment. Record gas concentrations 5s, 30s and 60s after opening each valve taking readings at one-minute intervals until steady values are achieved or for a maximum of 10 minutes.
3. Take a gas/vapour sample for subsequent laboratory analysis in accordance with the schedule detailed in Schedule 2.1.
4. Carry out gas flow measurements. Attach gas flow measuring device to the top valve and take measurements at 1 minute intervals for a period of not less than 10 minutes, unless gas flow is exhausted. Gas flow displacement measurements in units of l/hr. The detection limit shall be 0.1.
5. Measure atmospheric pressure at the end of the procedure.

The information to be submitted shall be:

- a. location and reference number of hole
- b. depth of monitoring
- c. weather conditions during monitoring, including ambient air temperature
- d. standpipe installation details
- e. depth to water
- f. equipment used
- g. operator name and responsibility
- h. gas concentrations in the units described in the table above

- i. atmospheric pressure in units of millibars
- j. Differential gas pressure measurement in units of mm water gauge. The sensitivity shall be 0.5.

S3.2.3 Leachate Sampling

Leachate samples shall be taken at each of the locations specified in Schedule 2.1.

The procedure shall be as follows:

1. Measure the thickness of leachate in the borehole
2. Where sufficient thickness is present for a sample to be taken, this shall be taken using a suitable collection method i.e. a disposable bailer.

S3.2.4 Bulk Gases/ Vapour

Samples for bulk gases and vapours will be undertaken from the gas monitoring locations at the frequency specified in Schedule 2.1. Samples shall be taken using a pressurised sampling vessel such as summa canister. Where a pressurised canister is not appropriate for the analytical measurement of the contaminant, an alternative method should be proposed. A method statement for sampling shall be submitted to Arup prior to sampling for approval.

S3.2.5 Labelling, protection and transportation of samples

All sample storage, labelling, preservation (including temperature control and protection from light) and handling shall be in accordance with BS 10175.

The Contractor shall be responsible for the protection of all samples and for their transport, including loading and unloading.

Containers for water samples shall be opaque and shall be sufficiently robust to avoid being damaged during handling and transportation, and shall not react chemically with the sample. Containers for bacteriological sample collection shall be sterile.

S3.3 Chemical testing requirements

S3.3.1 Schedules

A blank chemical test schedule in excel spreadsheet format shall be provided to Arup within 24 hours of sampling. This shall include the following information:

- Borehole number
- Sample type
- Sample depth (where relevant)

And on the other axis the following shall be listed:

- All suites of chemical tests identified with quantities.

The results of the monitoring works shall be provided as follows:

- All site measurements within 24 hours of the site visit; and
- Chemical test results within 10 working days of receipt of schedules.

S3.3.2 Provision of Data

All data from groundwater installations shall be provided in electronic format using non-write protected Microsoft Excel® spreadsheets.

All data from monitoring and analysis shall also be presented in AGS digital format.

S3.3.3 QA/QC

An allowance shall be made in the costs for field QC blanks and duplicates, suggested allowance of 10% of samples initially, reducing to 5% after an initial characterisation period (assume 3 months for purposes of costs). Separate QC samples are needed for leachate and groundwater.

Allowance shall also be made for obtaining at least one sample per round from multiple levels within the boreholes. This shall consist of three samples; one from the top, one from the middle and one from the bottom of the water column. This is to allow assessment of intra borehole variability.

Arup reserve the right to undertake an audit of the field monitoring and/or laboratory during the period of the contract.

SCHEDULE 4 – CHEMICAL TESTING REQUIREMENTS

The following contaminants are required to be tested for on the groundwater samples. **Please note the detection levels required.**

S4.1 Groundwater analysis required

Determinand	Detection level required µg/l (unless stated otherwise)	Test method offered ¹	Accreditation offered ¹
SUITE A – Heavy Metals			
Antimony	1		
Arsenic	1		
Barium	0.05		
Beryllium	1		
Boron	1		
Cadmium	0.1		
Chromium (hexavalent)	1		
Chromium (III)	1		
Chromium- total	1		
Copper	1		
Lead	1		
Manganese	10		
Mercury	0.01		
Molybdenum	1		
Nickel	10		
Selenium	1		
Vanadium	1		
Zinc	1		
SUITE B- Total Phenols			
Total Phenols	0.5		
SUITE C- Phenols			
Phenol	0.5		
Cresols	0.5		
Xylenols	0.5		
Resorcinol	0.5		
SUITE D – Water samples oxygen demand			
BOD	1 mg O ₂ /l		
COD	1 mg O ₂ /l		

Determinand	Detection level required µg/l (unless stated otherwise)	Test method offered ¹	Accreditation offered ¹
SUITE E- General Inorganics			
pH value	0.1 pH units		
Hardness	2 mg/l		
Alkalinity	2 mg/l		
Bromide	1		
Bromate	1		
Cyanide - total	5		
Total Cyanide - ferro and ferri-cyanide	5		
Cyanide - free	5		
Cyanide - thiocyanates	30		
Sulphate	1000 µg SO ₄ /l		
Sulphide	100 µg S/l		
Calcium	10		
Iron	10		
Magnesium	30		
Ammoniacal nitrogen	15		
Sodium	10		
Potassium	10		
Chloride	2 mg/l		
Total suspended solids	5 mg/l		
Nitrate	100		
Nitrite	10		
Total oxidised nitrogen	0.1 mg/l		
Fluoride	10		
SUITE F- TPH CWG			
TPH CWG Ali >C12-C16	5		
TPH CWG Ali >C16-C35	5		
TPH CWG Ali >C35-C44	5		
TPH CWG Aro >C6-C7	1		
TPH CWG Aro >C7-C8	1		
TPH CWG Aro >C8-C10	1		
TPH CWG Aro >C10-C12	5		
TPH CWG Aro >C12-C16	5		
TPH CWG Aro >C16-C21	5		
TPH CWG Aro >C21-C35	5		
TPH CWG Aro >C35-C44	5		

Determinand	Detection level required µg/l (unless stated otherwise)	Test method offered¹	Accreditation offered¹
SUITE G –Speciated PAHs			
Acenaphthene	0.01		
Acenaphthylene	0.01		
Anthracene	0.01		
Benzo(a)anthracene	0.01		
Benzo(a)pyrene	0.01		
Benzo(b)fluoranthene	0.01		
Benzo(ghi)perylene	0.002		
Benzo(k)fluoranthene	0.01		
Chrysene	0.01		
Dibenzo(ah)anthracene	0.01		
Fluoranthene	0.01		
Fluorene	0.01		
Indeno(123-cd)pyrene	0.002		
Naphthalene	0.01		
Phenanthrene	0.01		
Pyrene	0.01		
PAH (total 16)	0.01		
SUITE H- Monoaromatics			
BTEX – Benzene	0.01		
BTEX - Toluene	0.01		
BTEX - Ethyl Benzene	0.01		
BTEX - m & p Xylene	0.01		
BTEX - o Xylene	0.01		
MTBE (Methyl Tertiary Butyl Ether)	0.01		
SUITE I – Volatile Organic compounds			
Dichlorodifluoromethane	1		
Chloromethane	1		
Chloroethane	1		
Bromomethane	1		
Vinyl Chloride	1		
Trichlorofluoromethane	1		
trans 1,2-Dichloroethene	1		
Dichloromethane	1		
Carbon Disulphide	1		
1,1-Dichloroethene	1		

Determinand	Detection level required µg/l (unless stated otherwise)	Test method offered¹	Accreditation offered¹
1,1-Dichloroethane	1		
cis 1,2-Dichloroethene	1		
Bromochloromethane	1		
Chloroform	0.1		
2,2-Dichloropropane	1		
1,2-Dichloroethane	1		
1,1,1-Trichloroethane	0.1		
1,1-Dichloropropene	1		
Benzene	1		
Carbon Tetrachloride	0.1		
Dibromomethane	1		
1,2-Dichloropropane	1		
Bromodichloromethane	1		
Trichloroethene	1		
cis 1,3-Dichloropropene	1		
trans 1,3-Dichloropropene	1		
1,1,2-Trichloroethane	0.1		
Toluene	1		
1,3-Dichloropropane	1		
Dibromochloromethane	1		
1,2-Dibromoethane	0.4		
Tetrachloroethene	1		
1,1,1,2-Tetrachloroethane	1		
Chlorobenzene	1		
Ethylbenzene	1		
m & p Xylene	1		
Bromoform	1		
Styrene	1		
1,1,1,2,2-Tetrachloroethane	1		
o-Xylene	1		
1,2,3-Trichloropropane	1		
Isopropylbenzene	1		
Bromobenzene	1		
2-Chlorotoluene	1		
n-propylbenzene	1		
4-Chlorotoluene	1		

Determinand	Detection level required µg/l (unless stated otherwise)	Test method offered ¹	Accreditation offered ¹
1,2,4-Trimethylbenzene	1		
4-Isopropyltoluene	1		
1,3,5-Trimethylbenzene	1		
1,2-Dichlorobenzene	1		
1,4-Dichlorobenzene	1		
sec-Butylbenzene	1		
tert-Butylbenzene	1		
1,3-Dichlorobenzene	1		
n-butylbenzene	1		
1,2-Dibromo-3-chloropropane	1		
1,2,4-Trichlorobenzene	0.01		
1,2,3-Trichlorobenzene	0.01		
Hexachlorobutadiene	0.005		
Tetrachloroethylene	0.1		
Trichloroethylene	0.1		
1,3,5-Trichlorobenzene	0.01		
2,6-Chloronitrotoluene	1		
4,2-Chloronitrotoluene	1		
4,3-Chloronitrotoluene	1		
2,4-Chloronitrotoluene	1		
2,5-Chloronitrotoluene	1		
SUITE J- Semi-Volatile Organic compounds			
2,4,5-Trichlorophenol	1		
2,4,6-Trichlorophenol	1		
2,4-Dichlorophenol	0.1		
2,4-Dimethylphenol	1		
2,4-Dinitrotoluene	1		
2,6-Dinitrotoluene	1		
2-Chloronaphthalene	1		
2-Chlorophenol	0.1		
2-Methylnaphthalene	1		
2-Methylphenol	1		
2-Nitrophenol	1		
4-Bromophenyl phenyl ether	1		
4-Chloro-3-methylphenol	0.1		
Bis(2-chloroisopropyl)ether	1		

Determinand	Detection level required µg/l (unless stated otherwise)	Test method offered¹	Accreditation offered¹
4-Methylphenol	1		
4-Nitrophenol	1		
Bis(2-chloroethyl)ether	1		
Bis(2-chloroethoxy)methane	1		
Bis(2-ethylhexyl)phthalate	1		
Butylbenzyl phthalate	1		
Carbazole	1		
Dibenzofuran	1		
n-Dibutylphthalate	1		
n-Dioctylphthalate	1		
n-Nitroso-n-dipropylamine	1		
Diethyl phthalate	1		
Dimethyl phthalate	1		
Hexachlorobenzene	0.001		
Pentachlorophenol	0.075		
Phenol	1		
Hexachloroethane	1		
Nitrobenzene	1		
Isophorone	1		
Hexachlorocyclopentadiene	1		
Perylene	1		
MTBE	10		
SUITE K – Water samples PCB			
PCBs speciated to WHO 12	0.001		
SUITE L – Water samples herbicides			
2,3,6-TBA	0.02		
2,4-D	0.02		
2,4-DB	0.02		
2,4,5-T	0.02		
2,4,5-TP; (Fenoprop); (Silvex)	0.02		
4-CPA	0.02		
Benazolin	0.02		
Bentazone	0.02		
Bromacil	0.02		
Bromoxynil	0.02		
Clopyralid	0.02		

Determinand	Detection level required µg/l (unless stated otherwise)	Test method offered¹	Accreditation offered¹
Dicamba	0.02		
2,4-DP; (Dichlorprop)	0.02		
Diclofop	0.02		
Flamprop	0.02		
Flamprop-isopropyl	0.02		
Fluroxypyr	0.02		
Ioxynil	0.02		
MCPA	0.02		
MCPB	0.02		
MCPP; (Mecoprop)	0.02		
PCP; (Pentachlorophenol)	0.02		
Picloram	0.02		
Triclopyr	0.02		
Carbetamide	0.075		
Chlorbufam	0.1		
Chloroxuron	0.1		
Chlorpropham	0.1		
Chlortoluron	0.075		
Diflubenzuron	0.1		
Dimefuron	0.1		
Diuron	0.075		
Ethiofencarb	0.1		
Isoproturon	0.075		
Linuron	0.1		
Methabenzthiazuron	0.1		
Metoxuron	0.1		
Monolinuron	0.1		
Monuron	0.1		
Pencycuron	0.1		
Phenmedipham	0.5		
Pirimicarb	0.1		
Propham	0.1		
Trifluralin	0.01		
SUITE M – Water samples pesticides			
Ametryn	0.1		
Atraton	0.1		

Determinand	Detection level required µg/l (unless stated otherwise)	Test method offered¹	Accreditation offered¹
Atrazine	0.03		
Prometon	0.1		
Prometryn	0.1		
Propazine	0.075		
Simazine	0.03		
Simetryn	0.1		
Terbutylazine	0.1		
Terbutryn	0.1		
Dichlorvos	0.001		
Mevinphos	0.005		
alpha-Hexachlorocyclohexane (HCH)	0.001		
Diazinon	0.001		
gamma-Hexachlorocyclohexane (HCH / Lindane)	0.001		
Heptachlor	0.01		
Heptachlor Epoxide	0.01		
Aldrin	0.003		
beta-Hexachlorocyclohexane (HCH)	0.005		
Methyl Parathion	0.01		
Malathion	0.001		
Fenitrothion	0.001		
Parathion (Ethyl Parathion)	0.01		
o,p-DDE	0.002		
Endosulphan I	0.005		
Endosulphan II	0.005		
Endosulphan Sulphate	0.005		
p,p-DDE	0.002		
p,p-TDE (DDD)	0.002		
p,p-DDT	0.002		
p,p-Methoxychlor	0.01		
Dieldrin	0.003		
o,p-TDE (DDD)	0.002		
o,p-Methoxychlor	0.01		
o,p-DDT	0.002		
Endrin	0.0005		

Determinand	Detection level required µg/l (unless stated otherwise)	Test method offered¹	Accreditation offered¹
Ethion	0.1		
Azinphos-methyl	0.001		
Cyfluthrin	0.1		
Cyhalothrin	0.1		
Cypermethrin	0.075		
Deltamethrin	0.1		
Fenvalerate	0.1		
Permethrin	0.075		
Azinphos-ethyl	0.02		
Chlorfenvinphos	0.001		
Dimethoate	0.01		
Fenthion	0.01		
delta-Hexachlorocyclohexane (HCH)	0.001		
Isodrin	0.003		
cis-Permethrin	0.001		
trans-Permethrin	0.001		
demeton-s-methyl	0.05		
SUITE N – Water samples organotins			
Dibutyltin	0.01		
Tributyltin	0.0002		
Triphenyltin	0.001		
SUITE O - Glycols			
ethylene glycol	0.01		
monoethylene glycol	0.01		
diethylene glycol	0.01		
propylene glycol	0.01		
SUITE P- Radionuclides (screening)			
Gross alpha	10Bq/l		
Gross beta	10Bq/l		
SUITE Q- Radionuclides (specific emitting radionuclides)			
U-238	3.0 Bq/l		
U-234	2.8 Bq/l		
Ra-226	0.5 Bq/l		
Ra-228	0.2 Bq/l		
Pb-210	0.2 Bq/l		
Po-210	0.2 Bq/l		

Determinand	Detection level required µg/l (unless stated otherwise)	Test method offered ¹	Accreditation offered ¹
C-14	240 Bq/l		
Sr-90	4.9 Bq/l		
Pu-239/240	0.6 Bq/l		
Am-241	0.7 Bq/l		
Co-60	40 Bq/l		
Cs-134	7.2 Bq/l		
Cs-137	111 Bq/l		
I-131	6.2 Bq/l		
SUITE R – Water samples other parameters			
Dissolved methane	1		
Acetic acid (Ethanoic acid)	100		
n-Butyric acid (Butanoic acid)	100		
Caproic acid (hexanoic acid)	100		
Heptanoic acid (enanthic acid)	100		
Iso-butyric acid (2-methylpropanoic acid)	100		
Iso-valeric acid (2-methylbutanoic acid)	100		
Propionic acid	100		
n-Valeric acid (pentanoic acid)	100		
2,4-D methyl ester	0.1		
2,4-D ethyl ester	0.1		
2,4-D isopropyl ester	0.1		
2,4-D isobutyl ester	0.1		
2,4-D butyl ester	0.1		
Perfluorooctanic acid (PFOA)	0.1		
Perfluorooctanesulfonic acid (PFOS)	0.1		
SUITE S- NAPL			
NAPL fractional and composition hydrocarbon analysis	n/a		
NAPL density and viscosity	1 kg/m ³ and 0.5 mPa.s		
¹ Contractor to indicate method(s) and accreditation offered			

S4.2 Vapour and gas testing requirements

Results should reported in ppbv and µg/m³

Determinand	Detection level offered¹	Analytical method offered¹
<i>Ground gases</i>		
Carbon Dioxide		
Carbon Monoxide		
Hydrogen sulphide		
Methane		
Methane		
Nitrogen		
Oxygen		
Ethane		
Propane		
Butane		
Pentane		
Hexane		
Heptane		
Ethene		
Trace gases		
1,1,1,2-Tetrachloroethane		
1,1,1-Trichloroethane		
1,1,2,2-Tetrachloroethane		
1,1,2-Trichloroethane		
1,1-Dichloroethane		
1,1-Dichloroethene (1,1 DCE)		
1,1-Dichloropropene		
1,2,3-Trichlorobenzene		
1,2,3-Trichloropropane		
1,2,4-Trichlorobenzene		
1,2,4-Trimethylbenzene		
1,2-Dibromo-3-chloropropane		
1,2-Dibromoethane		
1,2-Dichlorobenzene		
1,2- Dichloroethene		
1,2-Dichloroethane		
1,2-Dichloropropane		
1,3,5-Trimethylbenzene		
1,3-Butadiene		
1-Butanethiol		
1-Pentene		

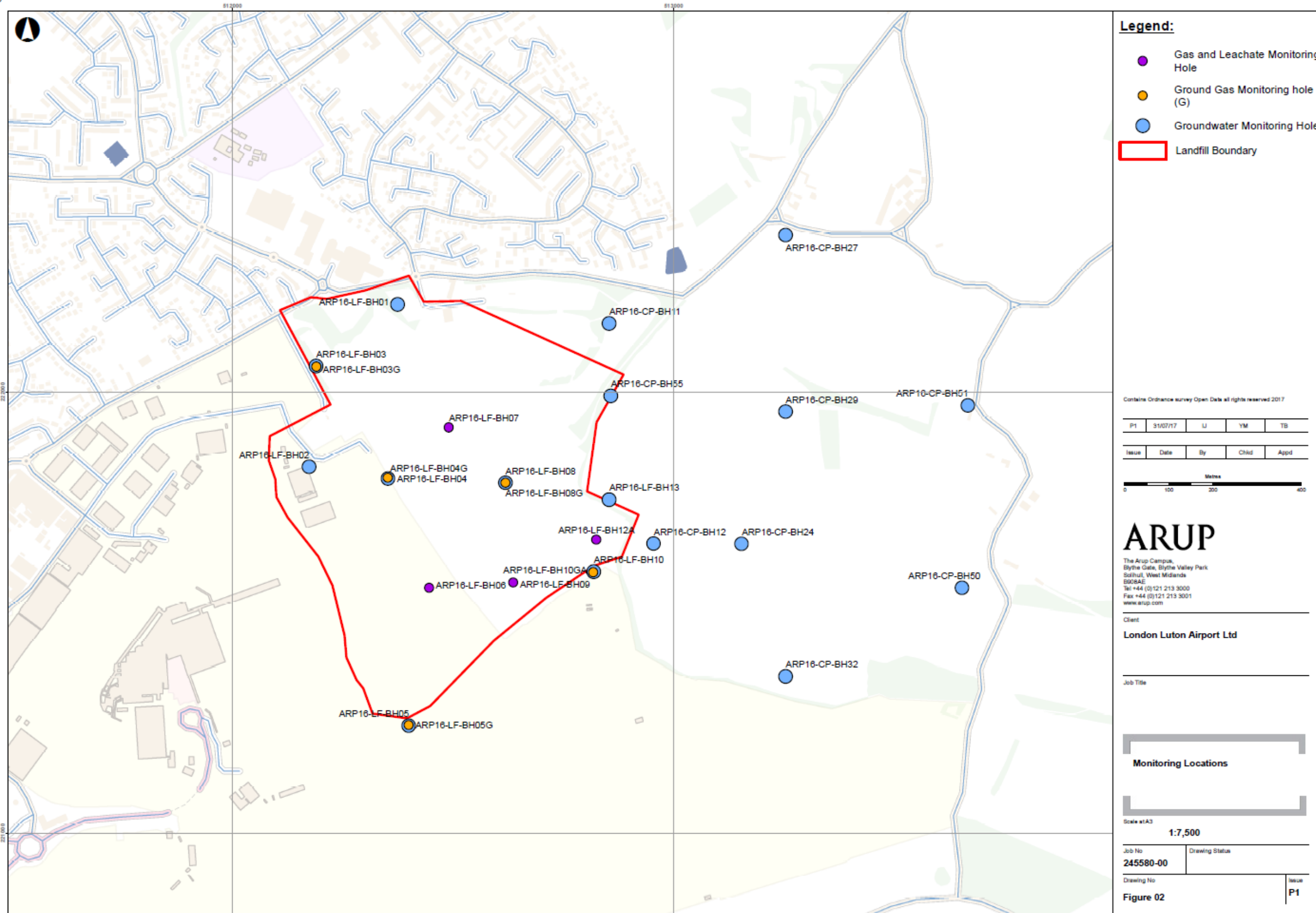
Determinand	Detection level offered ¹	Analytical method offered ¹
1-Propanethiol		
2-butoxy ethanol		
1,3-Dichlorobenzene		
1,3-Dichloropropane		
1,4-Dichlorobenzene		
2,2-Dichloropropane		
2-Chlorotoluene		
4-Chlorotoluene		
4-Isopropyltoluene		
Arsenic (as As)		
Acetaldehyde		
Benzene		
Bromobenzene		
Bromochloromethane		
Bromodichloromethane		
Bromoform		
Bromomethane		
Butyric acid		
Carbon Disulphide		
Carbon Tetrachloride		
Chlorobenzene		
Chloroethane		
Chloroform		
Chloromethane		
cis-1,2-Dichloroethene		
cis-1,3-Dichloropropene		
Dibromochloromethane		
Dibromomethane		
Dichlorodifluoromethane (F-12)		
Dichloromethane (DCM)		
Dimethyl disulphide		
Dimethyl sulphide		
Ethanethiol		
Ethyl butyrate		
Ethylbenzene		
Furan (1,4-epoxy-1,3-butadiene)		
Formaldehyde		

Determinand	Detection level offered ¹	Analytical method offered ¹
Hexachlorobutadiene		
Mercury		
Methanethiol		
Isopropylbenzene		
m&p - Xylenes		
Methyl tertiary butyl ether		
Naphthalene		
n-Butylbenzene		
o-Xylene		
Propylbenzene		
PCDDs and PCDFs		
Sec-Butylbenzene		
Styrene		
Tert-Butylbenzene		
Tetrachloroethene (PCE)		
Tetrachloromethane		
Toluene		
Trans-1,2-Dichloroethene		
trans-1,3-Dichloropropene		
Trichloroethene (TCE)		
Trichlorofluoromethane (F-11)		
Trimethylbenzene		
Vinyl Chloride		
Volatile Gases TICs		
¹ Contractor to indicate detection limit and analytical method offered		

S4.3 Leachate Analysis required

Leachate will be analysed for the same suite of contaminants as the groundwater

A3



MXD Location: z:\455000\45580-004 Internal Project Data\4-03 Drawings\1_099\Workpack\Ground\Mat173828_Groundwater_Monitoring.mxd

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Project title	Luton Airport Expansion	Job number 245580-00
Meeting name and number	EA Meeting 26th March 2018	File reference
Location	EA Offices, Welwyn Garden City	Time and date 1400 26 March 2018
Purpose of meeting	Discuss GI strategy and EIA DCO scoping	

Present	[Redacted]	[Redacted]
Apologies		
Circulation	Those present	

- | | |
|---|--|
| | Action |
| <p>1. Luton Airport Expansion</p> <p>YM presented the high level proposals for the expansion plans. No fixed masterplan yet but likely to involve at least part of the landfill. The proposed Century Park development is still currently proposed to go ahead. Phasing of the Century Park development with the expansion works is currently being looked at. YM will update on proposed plans as soon as more details are available.</p> | <p>YM to provide update on proposals once more details available</p> |
| <p>2. EIA Scoping</p> <p>JR presented the proposed scoping approach for the water resources EIA chapter for the DCO.</p> <p>Agreed to include water quality as part of the water resources chapter with signposts to relevant sections of the soils and geology chapter</p> <p>Agreed that assessment work will include detailed hydrogeological and contaminant transport modelling. Will be informed by the proposed GI works.</p> <p>Flood risk not too much of a concern from EA perspective, main issue is surface water drainage</p> | |

Prepared by [Redacted]
 Date of circulation
 Date of next meeting

Minutes

Project title	Job number	Date of Meeting
Luton Airport Expansion	245580-00	26 March 2018

Action

3. Groundwater monitoring programme

Updated EA on status of this.

Arup to set up way of providing monitoring data to EA, look to set up a web viewer which includes raw data and summary of any significant results for each round.

4. Ground investigation strategy

Leachate – discussed request for upflow percolation testing of soils. KS stated this is the ideal test for assessing leachate as the standard batch test is less conservative but does realise it is expensive and not many labs which undertake this testing. KS to provide further information on upflow percolation tests. Stated that would be best to consider tiered approach to testing with batch tests for a larger number of samples and then more detailed testing on selected samples where potential leachate issues identified

KS to provide further information on most suitable test

Packer Testing – KS suggested obtaining groundwater samples from each test horizon to obtain information on stratification of water quality within chalk

Arup to look into sampling groundwater during packer tests

Trial pits – need to identify if any evidence of leachate identified during excavation. If significant leachate identified in trial pits obtain samples of this.

Arup to include requirement for sampling of leachate in TPs in GI

EA would be keen to attend site during the GI and in particular would be interested to observe trial pits, packer tests and on-site forensic analysis

YM to advise KS when dates of GI known

No particular approvals or permits are required for GI from the EA, however they would want to review method statements for GI and some agreement may be required for packer testing once know volumes of water may be dealing with

Arup to provide EA with details once received

Overall EA appeared to be happy that the proposed GI strategy was comprehensive and should obtain the level of data they would be expecting

5. Water Framework Directive (WFD) Assessment

Arup identified that a WFD compliance assessment is likely to be required as part of the overall assessment. It was recognised that the assessment methodology has not yet been defined due to the early stage of the project but that when it is ready it will need to be agreed with the EA

KM to identify relevant contact to discuss WFD issues with

6. Future meetings

Minutes

Project title	Job number	Date of Meeting
Luton Airport Expansion	245580-00	26 March 2018

	Action
Due to limited time availability the EA has they don't necessarily need to have a further meeting prior to commencement of GI. It was agreed that Arup would provide updates to the EA and they could decide if a further meeting was necessary once they had reviewed the information.	Arup to provide updates as further information becomes available.

Appendix B - Not used

Appendix C- Nuvia Radionuclide Survey

Further Investigation of Areas of Interest at Luton

Document Reference: 72819/TR/001
Issue 1

Revision details:

Issue	Reason for re-issue	Date of re-issue

Author	[Redacted]	Signature: [Redacted] Date: 12.03.19
Reviewer	[Redacted]	Signature: [Redacted] Date: 12.03.19
Approver	[Redacted]	Signature: [Redacted] Date: 12.03.19

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Registered Office – 3rd Floor Chadwick House, Birchwood Park, Risley, Warrington, Cheshire, WA3 6AE
Tel: + 44(0)1925 866300, Fax: + 44(0)1925 811866 Registered in England No 2063786

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Abbreviations/ Acronyms	
Nal	Sodium Iodide
GIS	Geographical Information Systems
HRGS	High Resolution Gamma Spectrometry
MCA	Multi-Channel Analyser
BEGe	Broad Energy Germanium
HP	Health Physics
ISOCS	In-situ Object Counting System
MDA	Minimum Detectable Activity

1 INTRODUCTION

Ground Investigation works were undertaken at the Former Eaton Green Landfill site by AECOM. Luton Airport had a key role in World War II and aircraft were manufactured at the nearby former Percival Works. Historically aircraft dials have been painted with radionuclides such as radium (Ra-226) to make them luminous. Therefore, given the history of the area, further specialist investigation of the former landfill was warranted to confirm whether any radioactivity was disposed of at the site. To support ground investigation works, Nuvia were contracted by AECOM to provide radiation protection monitoring. During these works three locations were noted to have above background radiation readings and were reported in Nuvia Radiation Advice Note 72786/AN/001: TP224 (identified 25 June 2018), BBH207 (identified 14 July 2018) and TP273 (identified 18 July 2018). Note that the highest radiation dose rate measurement recorded (TP224) was $0.25 \text{ microSv h}^{-1}$. To put these radiation levels in perspective, someone taking a return flight to Spain would receive a radiation dose of around 10 microSv due to elevated cosmic radiation, hence the external radiation hazard in these areas is low.

Radiation readings approximately 2-3 times background were recorded at locations TP224 and BBH207. At TP224 the elevated readings were detected at the surface, and no ground was broken, whereas the elevated radiation readings at BBH207 were detected during hand digs and the trial pits abandoned and excavated material backfilled.

Radiation readings around 2-3 times background were recorded at location TP273 so the location of the trial pit was moved approximately 8 m. However, readings around 2 times background were detected at a depth of approximately 30 cm in the new location; though it should be noted that no elevated readings were observed in the excavated spoil and the trial pit work could continue.

This report details the further investigation works carried out in these areas of interest (TP224, BBH207 and TP273) to establish whether remediation work is necessary.

2 METHODOLOGY

2.1 Groundhog Survey

To investigate the three areas, a non-intrusive large area surface gamma survey was conducted around each location using Nuvia's Groundhog system.

Nuvia's Groundhog system comprises a 76 x 76 mm sodium iodide (NaI) detector coupled to an advanced gamma radiation spectrometer. The detector and spectrometer are mounted in a carbon fibre composite case, to reduce the weight of the detector and to improve the transmission of low-energy gamma radiation. The detector and spectrometer are connected to an Ultra-Mobile PC carried by the operator. A mapping-grade GPS is used to calculate the position of every radiation measurement with sub-metre accuracy. Measurements are taken along transects and a measurement is recorded automatically every second, so that on average there is one full spectral measurement in every square metre of the survey area, *i.e.* a high density of survey measurements. After surveying, the data is downloaded onto a PC and processed to produce high resolution contour maps of the gamma radiation levels using Geographical Information Systems (GIS).

Nuvia uses the ESRI ArcGIS software and has extended it to improve the analysis of radiation survey data. These features include the ability to select, group and analyse the gamma radiation spectra, where we can

identify radionuclides such as Ra-226, *i.e.* sum spectra over arbitrary domains, in time and space; as individual spectra are rarely of use, typically with only 200-300 counts.

Completion of a Groundhog survey at each area allowed for the location of any elevated radiation levels at the surface and to establish whether activity was localised or distributed across a large area. The information gained by the Groundhog survey was then used to target sampling.

2.2 Sampling

If an area of elevated activity was detected during the Groundhog survey, then sampling was targeted at these locations. However, if no elevated readings were noted then sampling was conducted at the original location of the trial pit/borehole.

Trial pits were excavated to a depth of approximately 30 cm at each sampling location and the same Health Physics (HP) instrumentation used in the original surveys, were used to scan arisings as they were produced. If spoil was found to have elevated radiation readings, then that material was selectively sampled.

2.3 High Resolution Gamma Spectrometry (HRGS)

Samples were analysed using Nuvia's HRGS system which comprises a detector, multi-channel analyser (MCA) and laptop.

The detector medium for the HRGS system is a crystal of germanium which is electrically cooled to below -173°C. The system is manufactured by Canberra and is a Falcon 5000 Broad Energy Germanium (BEGe) 2830, serial number 13000222.

The MCA digitises the signals from the detector and converts it into an energy spectrum that can be analysed using software installed on the laptop. The unit is set-up to acquire a gamma spectrum over 8192 channels and the default energy window for the system is 0 to 2700 keV. A feature of the Falcon 5000 is the integration of the MCA into the detector housing, so that the only hardware connected to the detector is the laptop. All operations are carried out using software commands from the attached laptop via an ethernet cable.

The detector's detection characteristics are defined, allowing mathematical modelling software to be utilised to determine its efficiency without the need for radioactive sources. Efficiency calibrations are generated using Canberra's In-Situ Object Counting System (ISOCS) Geometry Composer modelling software version 4.4.

The detector was elevated to view the mid-point of each sample under investigation and the sample placed on a small turntable; the turntable allowing the detector to view all around the sample and essentially smooth out variations in activity distribution.

Each Sample was analysed for 30 minutes whilst on-site, to screen them for transport back to Nuvia's Harwell office and to provide rapid evaluation as to whether significant contamination was present. Once returned

to Harwell the samples were analysed for 8 hours each, to reach the limits of detection required to assess their activities relative to background levels.

3 INVESTIGATION RESULTS

3.1 TP224

The surface radiation map produced by the Groundhog survey can be seen in Appendix 1. Though radiation levels can be seen to fluctuate across the area, the survey doesn't show any notable features; background fluctuations to this degree are expected.

A shallow trial pit was therefore excavated at the location of TP224, along with HP monitoring of excavated spoil and the trial pit. No readings above background were detected from the excavated spoil and count rates less than twice background were recorded in the excavation itself (Appendix 4). A representative sample from the excavation was taken for HRGS analysis.

HRGS analysis of the samples showed no artificial radionuclides to be present and natural radionuclides to be below the Minimum Detectable Activity (MDA). The result for radium, and its short-lived daughters' bismuth and lead, are shown in Table 1.

Table 1: HRGS results for sample TP224 (Bq/g).

Nuclide	Result	Uncertainty	MDA
²¹⁴ Bi	Not Detected	n/a	3.52E-02
²¹⁴ Pb	Not Detected	n/a	2.90E-02
²²⁶ Ra	Not Detected	n/a	3.30E-01

3.2 BBH207

The surface radiation map produced by the Groundhog survey can be seen in Appendix 2. Though radiation levels can be seen to fluctuate across the area, the survey doesn't show any notable features; background fluctuations to this degree are expected.

A shallow trial pit was therefore excavated at the location of BBH207, along with HP monitoring of excavated spoil and the trial pit. No readings above background were detected from the excavated spoil and count rates less than twice background recorded in the excavation itself (Appendix 4). A representative sample from the excavation was taken for HRGS analysis.

HRGS analysis of the sample showed no artificial radionuclides to be present. Radionuclides in the natural chains were also found to be below the Minimum Detectable Activity (MDA) except for radium's short-lived daughters' bismuth and lead. The result for ²²⁶Ra, ²¹⁴Bi, and ²¹⁴Pb, are shown in Table 2.

Table 2: HRGS results for sample BBH207 (Bq/g).

Nuclide	Result	Uncertainty	MDA
²¹⁴ Bi	5.13E-02	1.35E-02	n/a
²¹⁴ Pb	4.21E-02	1.18E-02	n/a
²²⁶ Ra	Not Detected	n/a	1.95E-01

3.3 TP273

The surface radiation map produced by the Groundhog survey can be seen in Appendix 3. From this survey two noticeable features can be identified where count rates appear to decrease away from a central location: identified as TP273N and TP273S.

Shallow trial pits were excavated at both locations, along with monitoring of excavated spoil and the trial pit. No readings above background were detected from the excavated spoil at either location but count rates in the region of 2-3 times background were recorded in the excavation itself at TP273S (Appendix 4). Samples from the excavation were taken for HRGS analysis.

HRGS analysis of the samples showed no artificial radionuclides to be present. Radionuclides from the natural chains were also found to be below the Minimum Detectable Activity (MDA) in the sample taken from TP272N, except for radium’s short-lived daughter bismuth. The results for ²²⁶Ra, ²¹⁴Bi, and ²¹⁴Pb, for this sample are shown in Table 3.

Table 3: HRGS results for sample TP273N (Bq/g).

Nuclide	Result	Uncertainty	MDA
²¹⁴ Bi	2.50E-02	1.50E-02	n/a
²¹⁴ Pb	Not Detected	n/a	2.03E-02
²²⁶ Ra	Not Detected	n/a	1.58E-01

Radium’s short-lived daughter bismuth and lead were detected in the sample taken from TP273S. The results these radionuclides are shown in Table 4.

Table 4: HRGS results for sample TP273S (Bq/g).

Nuclide	Result	Uncertainty	MDA
²¹⁴ Bi	3.98E-02	1.77E-02	n/a
²¹⁴ Pb	6.36E-02	1.46E-02	n/a
²²⁶ Ra	Not Detected	n/a	2.17E-01

4 DISCUSSION

Of the locations re-visited, only TP273S was found to have a count rate in excess of twice background. It should be noted that this reading was observed within the excavation. This could therefore be explained by the increase in material surrounding the detector rather than from the presence of contamination; increased volume of material surrounding the detector increasing the detectable activity from naturally occurring radioactive materials.

The failure to replicate the count rates originally observed can be explained by the ground conditions at the time of the surveys. This is due to the original survey having been conducted in dry conditions and the return surveys conducted in wet conditions; high moisture content in soils resulting in a reduced count rate.

4.1 Sample Results

Radium is a low probability, low energy, gamma emitter so has a high limit of detection. However, its short-lived daughters ^{214}Bi and ^{214}Pb are readily detectable by HRGS and by accounting for the loss of activity, due to the loss of the gaseous ^{222}Rn , following the decay of ^{226}Ra , can be used to infer the activity of ^{226}Ra in the sample. Typically, a radon loss of 30% is assumed to infer the activity of radium present (Table 5).

Table 5: Inferred ^{226}Ra activities for each sample (Bq/g).

Sample	Result	Uncertainty	MDA
TP224	Not Detected	n/a	4.14E-02
BBH207	6.67E-02	1.81E-02	n/a
TP273N	3.56E-02	2.15E-02	n/a
TP273S	7.39E-02	2.31E-02	n/a

^{214}Bi and ^{214}Pb ought to be in equilibrium due to their short half-lives but heterogeneity within the samples can result in a discrepancy between their results. Therefore, where both are detected, an average of the two results has been used to infer the radium concentration shown in Table 5.

Background radiation concentrations in natural ground vary depending on the composition of the soil in question but are typically in the range of 0.03 – 0.07 Bq/g for ^{226}Ra . However, the samples taken are all from made ground which was noted to contain brick, cinders and concrete. This explains the slightly elevated readings observed in the sample taken from BBH207 and TP273S; clay bricks observed to contain up to 0.2 Bq/g ^{226}Ra [1].

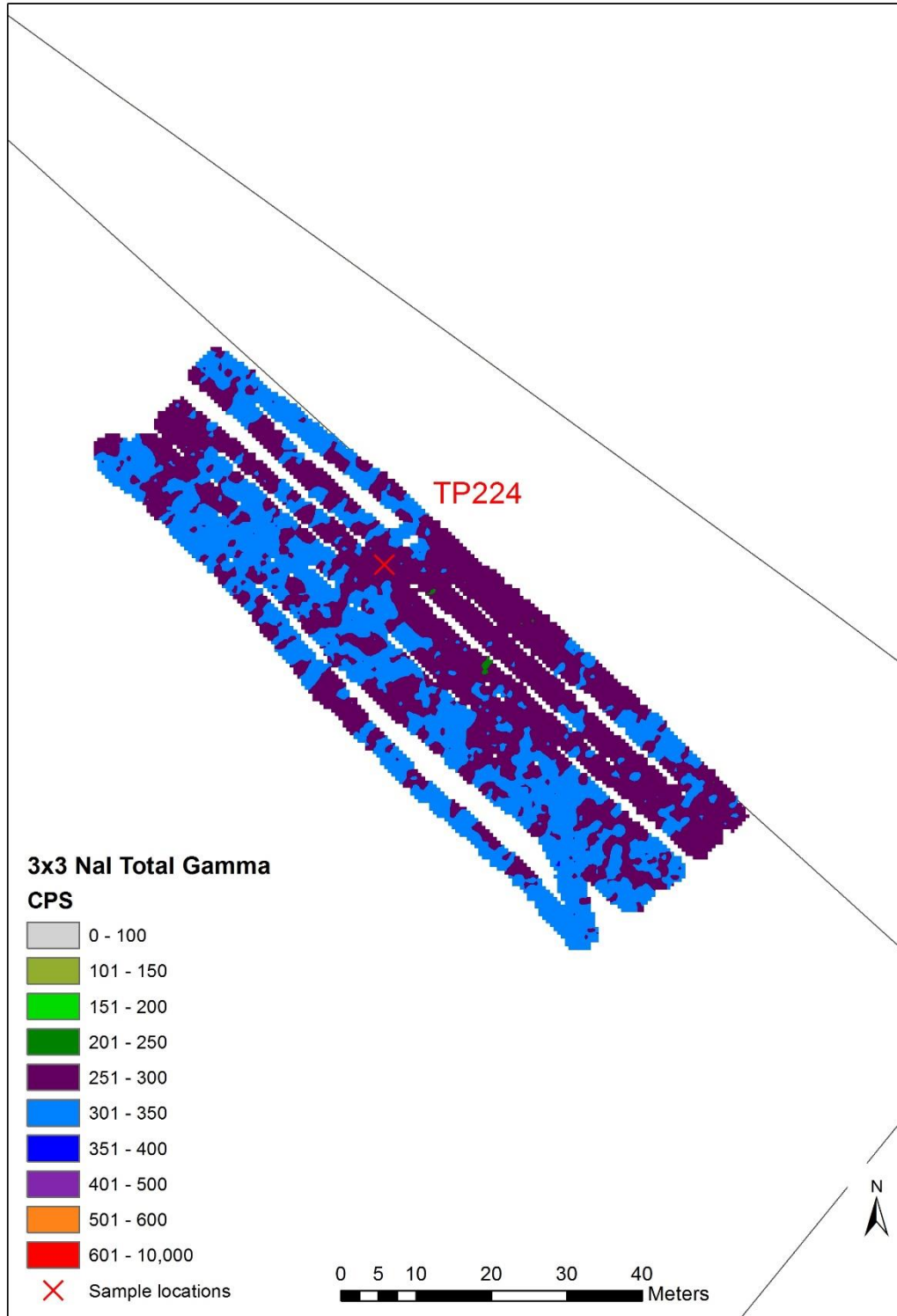
5 SUMMARY

Only the survey of the area surrounding TP273 observed any notable features and targeted samples were taken from these features together with samples from TP224 and BBH207. Analysis of the HRGS results show the levels observed are consistent with expected natural background levels and are therefore of no concern.

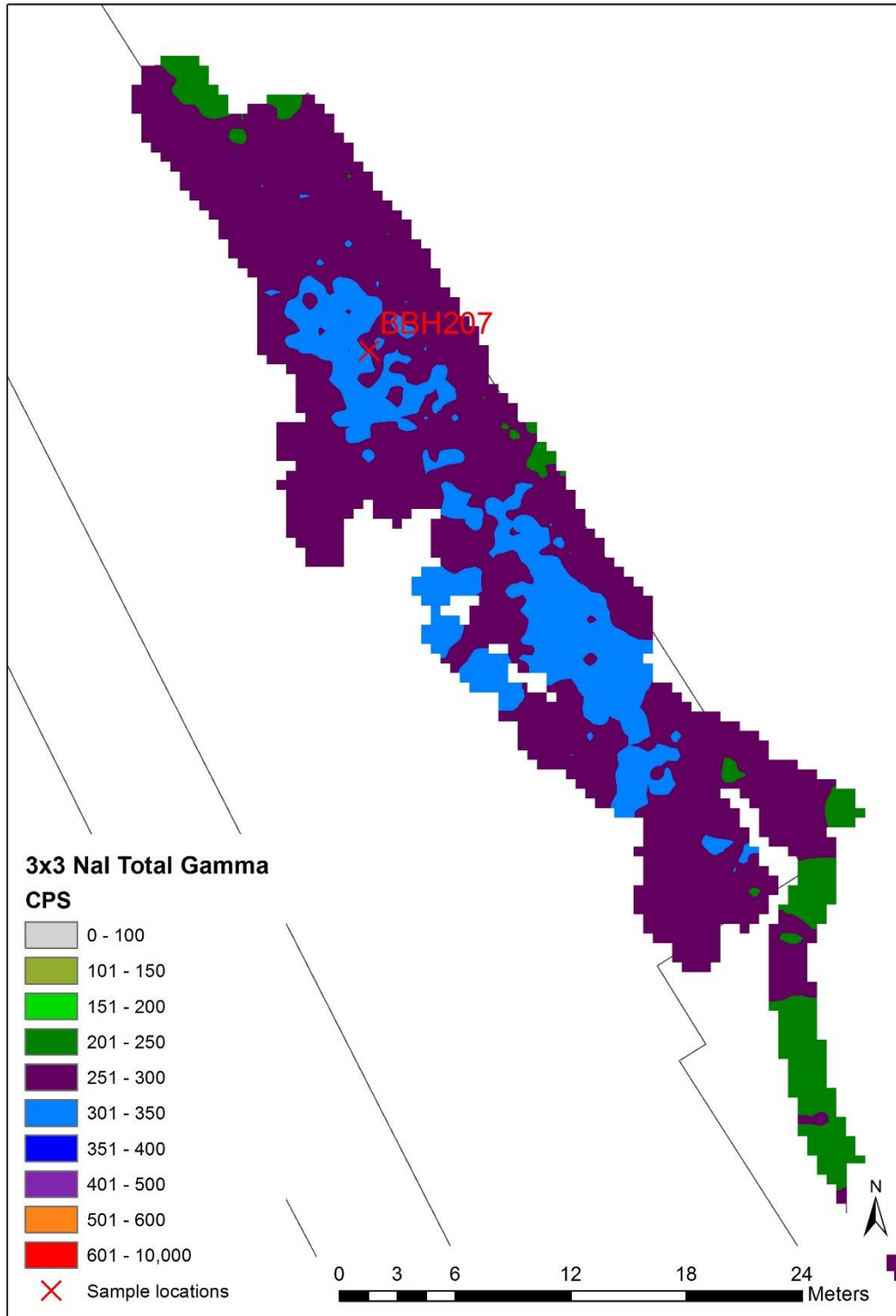
REFERENCES

[1] World Nuclear Association, "Naturally-Occurring Radioactive Materials," December 2016. [Online]. Available: [REDACTED]

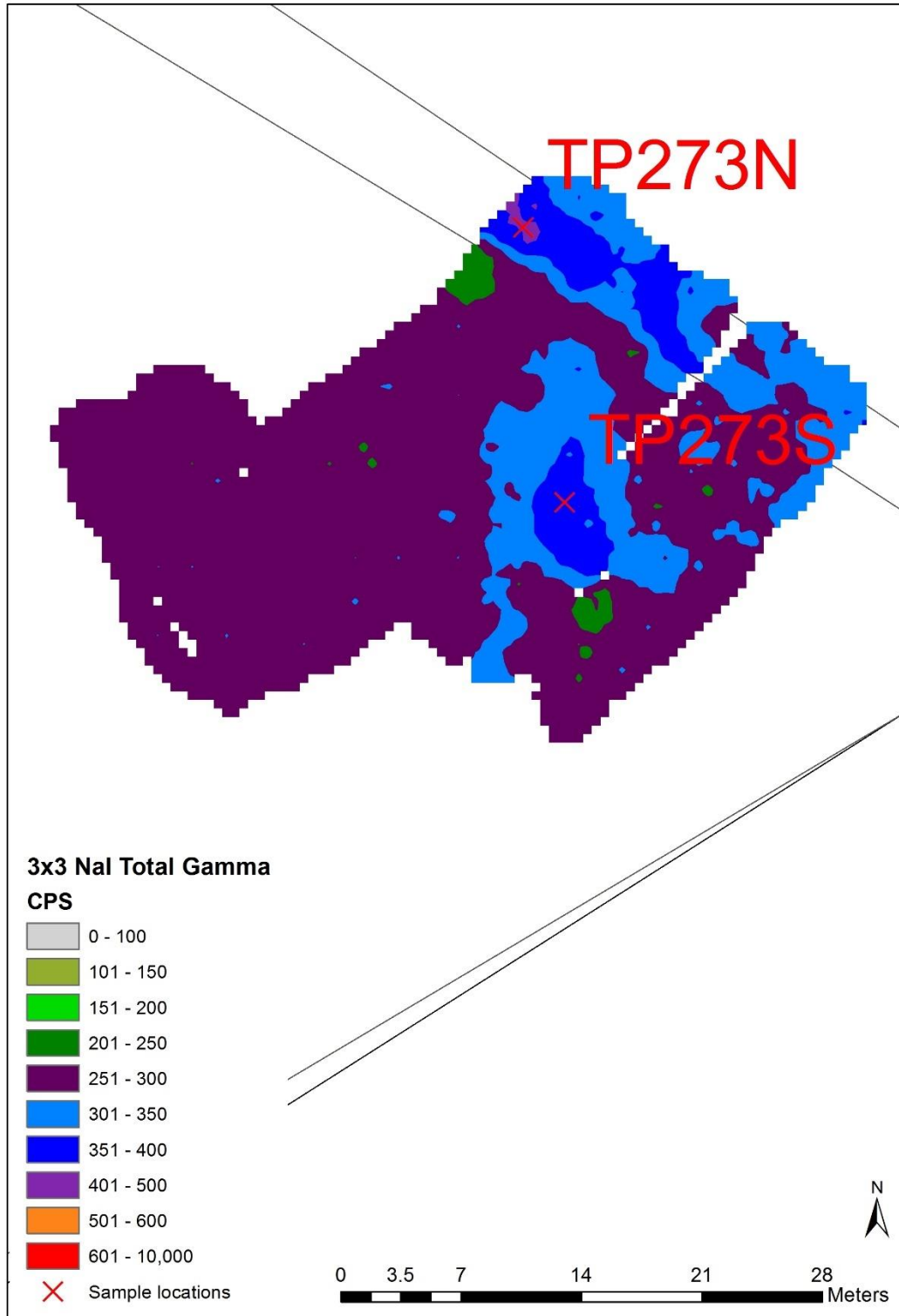
APPENDIX 1



APPENDIX 2



APPENDIX 3



APPENDIX 4



Radiological Survey Report
Health Physics

Survey sheet 1 of 1

Survey Date: 6-2-19	Start time:	Area Designation	Instruments		Instrument Serial Numbers		Instrument Background	Function Test		
			Pre	Post						
Building/location: <u>Widmore from tunnel</u>	Non-Designated	a	NaI/Electra	2366 / 6632	280-300 cps	/	/			
Survey reference number:	Supervised area *	b	4392/Electra	31520 / 05134	x 0.1cp / 4cp	/	/			
Survey Description: TP 224 excavation AS EXCAVATION → SAMPLED	C:	R:	c	mini LND	933	0.1 cps/c	/	/		
	Controlled area *	d	443 / mini MON	1144 / 22473	7cl	/	/			
	C: L	R: L	e							
Net Radiation (circle units)			Net Contamination				P or Sm	U/S or S	General Comments: ① NaI/Electra remains ② 40/93 remains ③ 443 remains	
<u>μSv/h</u> or mSv/h			cps		Bq/cm ²					
BY γ η			α	β	α	β				
PRE WORK SURVEY	2000			2000 ①				P		
SMALL EXCAVATION TO DEPTH OF APPROX 25cm - HAVE SURVEYED	2000			50 ①				P		
			200	2000 ②				P		
				2000 ③					P	
SPACE → SAMPLE SURVEY	2000			2000 ①				P		
			2000	2000 ②				P		
				2000 ③					P	
RESURFACING → EQUIPMENT SURVEY			2000	2000 ④				P		
POST EXCAVATION SURVEY				2000 ⑤				P		
Print Name(s)		Signature(s)		Date		HPS comment:				
Survey completed by: [redacted]		[redacted]		6-2-19						
HP Supervisor		[redacted]								
RPA / RPS		[redacted]		9-2-19						

Distribution: White prime copy to Health Physics Yellow carbonated copy retained by client P/Sm = probe or smear measurement U/S = unsatisfactory result S = Satisfactory result *Add hazard category

Registered Office: Nuvia Limited, Chadwick House, Birchwood Park, Risley, Warrington, Cheshire WA3 0AE
Registered in England No 2063785
Tel: 01925 858200 Fax: 01925 858403 Email: info@nuvia.co.uk www.nuvia.co.uk

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Page 1 of 1



Radiological Survey Report Health Physics

Survey sheet 1 of 1

72819/TR/001
Issue 1

Survey Date: 6-2-19	Start time:	Area Designation	Instruments		Instrument Serial Numbers		Instrument Background		Function Test		
							Pre	Post	Pre	Post	
Building/location: <u>WICKMOR PARK LUTON</u>		Non-Designated	a	<u>NaI / Electro</u>	<u>2366 / 6672</u>	<u>250-700 cps</u>	✓	✓			
Survey reference number:		Supervised area *	b	<u>4343 / Electro</u>	<u>313826 / 05124</u>	<u>α 0.1 cps β 4 cps</u>	✓	✓			
Survey Description: <u>TR 273 SURVEY ON AS EXCAVATION + SAMPLES (NORTH + SOUTH)</u>		C: R:	c	<u>Mini EM</u>	<u>937</u>	<u>0.1 mSv/h</u>	✓	✓			
		Controlled area *		d	<u>445 / Mini Mon</u>	<u>1144 / 23473</u>	<u>7 cps</u>	✓	✓		
		C: L R: L	e								
		Net Radiation (circle units)		Net Contamination				P or Sm	U/S or S	General Comments: <u>① NaI / Electro readings</u> <u>② 43-43 readings</u> <u>③ 445 readings</u>	
		μSv/h or mSv/h		cps		Bq/cm ²					
		β/γ	γ	η	α	β	α				
<u>PREWORK SURVEY NORTH</u>			<u>2000</u>			<u>2000</u> ①			P		
<u>SAMPLE EXCAVATION TO DEPTH OF 25 CM</u>						<u>100</u> ①			P		
<u>HOLES SURVEY</u>					<u>2000</u>	<u>2000</u> ②			P		
<u>SPALLS + SAMPLE SURVEY</u>			<u>2000</u>			<u>2000</u> ③			P		
<u>POST EXCAVATION SURVEY</u>					<u>2000</u>	<u>2000</u> ④			P		
<u>PREWORK SURVEY SOUTH</u>			<u>2000</u>			<u>100</u> ①			P		
<u>SAMPLE EXCAVATION TO DEPTH OF</u>						<u>520</u> ①			P		
<u>ALONG 25 CM HOLES SURVEY</u>					<u>2000</u>	<u>5</u> ②			P		
<u>SPALLS + SAMPLE SURVEY</u>			<u>2000</u>			<u>25</u> ③			P		
<u>POST EXCAVATION SURVEY</u>					<u>2000</u>	<u>2000</u> ④			P		
						<u>2000</u> ⑤			P		
						<u>1000</u> ⑥			P		
Survey completed by:		Print Name(s)	Signature(s)		Date		HP5 comment:				
HP Supervisor					<u>6-2-19</u>						
RPA / RPS					<u>9-2-19</u>						





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Radiological Survey Report
Health Physics

Survey sheet 1 of 1

Survey Date: 6-2-19	Start time:	Area Designation	Instruments		Instrument Serial Numbers	Instrument Background	Function Test	
			Pre	Post				
Building/location: WIGMORES FIRM LUTON		Non-Designated	a	NaI/Electra	2344/6632	250-300 cps	✓	✓
Survey reference number:		Supervised area *	b	4293/Electra	313826/102134	40-100 β cps	✓	✓
Survey Description: BBH 207 SURVEIL AS EXCAVATED & SAMPLED		C: R:	c	MINI RAD	933	0.1 μSv/h	✓	✓
		Controlled area *	d	448/MINI MON	1444/23477	7 cps	✓	✓
		C: L R: L	e					
		Net Radiation (circle units)		Net Contamination		P or Sm	U/S or S	General Comments: ① NaI/Electra ② 43/93 readings ③ 448/min. mon readings
		μSv/h or mSv/h		cps				
		β/γ y η		α β				
				Bq/cm²				
PRE WORK SURVEIL		2000		2000 ^①		P		
SMALL EXCAVATION TO DEPTH OF APPROX 25cm. HOW SURVEIL		2000		70 ^①		P		
				2000 ^②		P		
				2000 ^③		P		
SPLOTT & SAMPLE SURVEIL		2000		2000 ^①		P		
				2000 ^②		P		
				2000 ^③		P		
POLSON & EDWARDS SURVEIL				2000 ^②		P		
POST EXCAVATION SURVEIL				2000 ^①		P		

Print Name(s)	Signature(s)	Date	HPS comment:
		6-2-19	
Survey completed by:			
HP Supervisor			
RPA / RPS		9-2-19	

Distribution: White prime copy to health physics Yellow carbonated copy retained by client P/Sm = probe or smear measurement U/S = unsatisfactory result S = Satisfactory result *Add hazard category

Registered Office: Nuvia Limited, Chadwick House, Birchwood Park, Risley, Warrington, Cheshire WA3 6AE
Registered in England No 2063798
Tel: 01925 858200 Fax: 01925 866403 Email: info@nuvia.co.uk www.nuvia.co.uk

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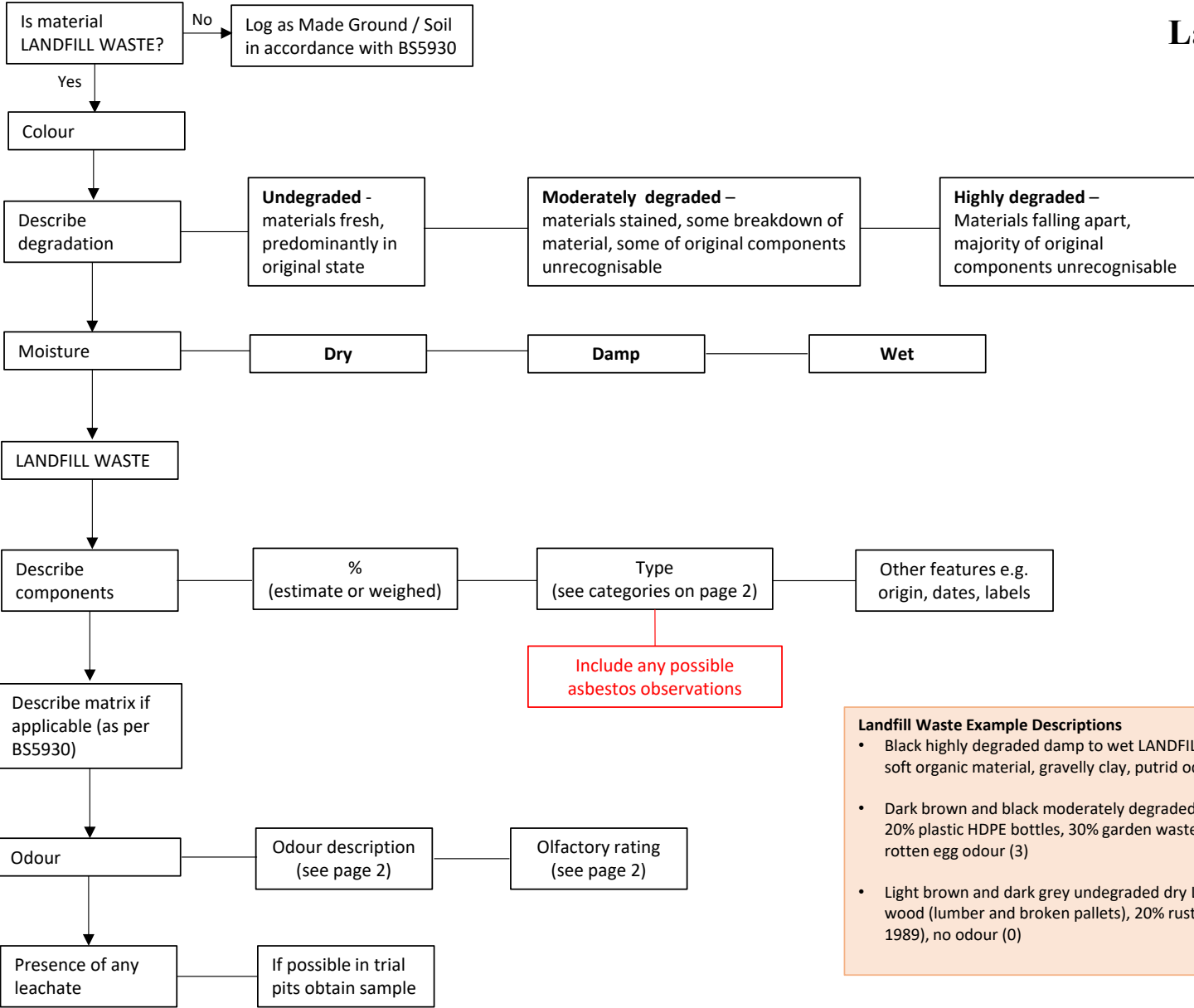


Appendix D - Landfill Waste Characterisation

Appendix D

D1 Landfill Logging Protocol

Landfill Waste Logging



Landfill Waste Example Descriptions

- Black highly degraded damp to wet LANDFILL WASTE comprising 5% aluminium cans, 15% black plastic bags, 80% unidentifiable soft organic material, gravelly clay, putrid odour (2), minor seepage of leachate at 3.5m
- Dark brown and black moderately degraded dry LANDFILL WASTE comprising 20% mixed paper (includes magazine dated 1978), 20% plastic HDPE bottles, 30% garden waste (branches and twigs), 10% clear glass bottles, 10% corrugated boxes, 10% sand, rotten egg odour (3)
- Light brown and dark grey undegraded dry LANDFILL WASTE comprising 50% other inorganics (25% concrete, 25% brick), 20% wood (lumber and broken pallets), 20% rusted iron nails, 5% tin can (500ml with creosote label), 5% newsprint (newspaper dated 1989), no odour (0)

Waste Component Categories - Adapted from ASTM D5231-92 (2016))

Waste Component Categories	Description
Mixed paper	Office paper, computer paper, magazines, glossy paper, waxed paper and other paper not fitting the categories of newsprint and corrugated
Newsprint	Newspaper
Corrugated	Corrugated medium, corrugated boxes or cartons and brown (kraft) paper (that is corrugated) bags
Plastic	All plastics - PET bottles, HDPE bottles, film, other plastics
Garden waste	Branches, twigs, leaves, grass and other plant material
Food waste	All food waste except bones
Wood	Lumber, wood products, pallets and furniture
Biological	Clinical waste, veterinary waste
Other organics/ combustibles	Textiles, rubber, leather and other primarily burnable materials not included in above categories
Construction waste	Concrete, brick, tiles, plaster, tarmac, bitumen
Ferrous	Iron, steel, tin cans and bi-metal cans
Aluminium	Aluminium, aluminium cans and aluminium foil
Glass	All glass - clear, brown, green
Other inorganics/ non-combustibles	Rock, sand, dirt, ceramics, non-ferrrous non-aluminium metals (copper, brass etc), bones, ash, clinker, slag

Descriptive terms for odours (From D.Norbury, 2016)

Category	Descriptive terms
Camphor	Bitter Mothballs Acrid
Musk	Penetrating Pungent
Floral	Wide range of terms, not likely to be used often in Made Ground
Peppermint	Sweet Minty
Ether	Solvent Acetone Medicinal
Vinegar	Sharp Acetic Pungent Rancid
Putrid	Rotten egg Rotten cabbage Fishy Disagreeable, sweet Sulphurous
Hydrocarbon	Organic Petrol Diesel Oil Asphalt Tar

Olfactory rating

Rating	Olfactory observations
0	No odour
1	Faint odour
2	Distinct but not strong
3	Strong odour
4	Strong odour discernible in ambient air
5	Very strong odour very discernible in ambient air

Appendix D

D2 Waste Logging Sheet

Waste Logging Sheet							
Exploratory Hole ID:		Date:		Filled by:			
Depth:		Sample Mass (m1):	kg	Sample Selected for Lab Analysis: Y / N			
Anticipated Thickness of Waste		Weather:		Lab Code:			
Is material is Waste:	Y / N	<i>(If No. Log as Made Ground / Soil in accordance with BS5930)</i>					
Colour of Waste:							
Describe Degradation:	Undegraded		Moderately Degraded		Highly Degraded		
Moisture:	Dry	Damp	Wet	Sample Texture:			
Odour:	Y / N	Olfactory Rating from 1 to 5:					
	Camphor	Musk	Peppermint	Ether	Vinegar		
	Bitter	Penetrating	Sweet	Solvent	Sharp		
	Mothballs	Pungent	Minty	Acetone	Acetic		
	Acrid			Medicinal	Pungent		
					Rancid		
	Putrid		Hydrocarbon				
	Rotten Egg		Organic				
	Rotten Cabbage		Petrol		Diesel		
	Fishy		Oil				
	Disagreeable, Sweet		Asphalt				
	Sulphurous		Tar				
Presence of any Leachate:	Y / N	<i>If possible in trial pits obtain sample</i>					
Describe Components in %:	Estimated / Weighted						
Mixed Paper:	Newsprint:	Corrugated:	Plastic:				
Garden Waste:	Food Waste:	Wood:	Biological:				
Other Organic / Combustibles:			Construction Waste:				
Ferrous:	Aluminium:	Glass:	Other Inorganics/ Non-Combustibles:				
Description of Components:							
Possible Presence of Asbestos Containing Material:	Y / N	Description:					
Describe Matrix as per BS5930:							
Sample Mass after analysis (m2):	kg	Difference between m1 and m2:					
If difference greater than 1% please do the analysis again							

Appendix D

Methodology for Forensic Waste Logging

D3 Introduction

- D3.1.1 This document outlines the methodology undertaken by Geotechnical Engineering Ltd (GEL)/AECOM during the 2018 Landfill Ground Investigation.
- D3.1.2 The process of forensic logging was overseen by Arup throughout the ground investigation.

D4 Methodology

D4.1 Sample Selection

Boreholes

- D4.1.1 Borehole samples were selected either by the AECOM supervising engineer or Arup engineer.
- D4.1.2 The samples selected were continuous runs of similar looking material, not based on logs or descriptions (as these were not readily available at the time), from core boxes.
- D4.1.3 An example of a chosen borehole sample is shown below, this example was recorded as BH213 10.50-11.50m:



Trial Pits

- D4.1.4 Trial pits samples were collected at the side of the pit by the GEL engineer supervising the trial pitting. The engineers in the forensic lab would then be informed either by the GEL logging engineer or the Arup engineer who shadowed the trial pit which bulk samples were most worth looking at/most representative of the strata encountered.
- D4.1.5 The samples were generally one (sometimes two) standard bulk bags in size, variably filled (dependant on the waste encountered). Generally, any partially sharp, large or



potentially dangerous (i.e. syringes etc) objects were excluded from the sample to avoid unnecessary risk of injury to the engineers conducting the forensic logging.

D4.1.6 These samples were recorded as spot samples (i.e. assigned to a single depth, 5.0m) or a short range of depth (i.e. 5.0-5.2m).

D4.2 Sample Processing

D4.2.1 Borehole samples were selected from the core boxes and then removed utilizing (gloved) hands or pallet knives/scrapers and deposited into a clean metal tray.

D4.2.2 Trial pit samples were emptied from the bulk bag(s) into a clean metal tray.

D4.2.3 If samples were particularly large or predicted to weigh over 13kg (limit of weighing scales) then the sample was split into multiple trays.

D4.2.4 The samples were then photographed within the trays with appropriate labelling, as shown below:



D4.3 Sample Assessment

Initial Assessment

- D4.3.1 Samples were then weighed utilizing electronic scales accurate to 4 decimal places (units = kg) and the total weight of the sample recorded.



- D4.3.2 The sample was then bulk assessed for its colour, dampness, degradation, odour, odour rating, sample texture and presence of leachate. This is similar to the field landfill waste logging procedure.
- D4.3.3 It is noted that odours were hard to assess, given the need to face mask PPE protection during the forensic logging process and therefore weaker odours are likely to have been missed.

Detailed Assessment

- D4.3.4 The sample was then picked apart and split into 14 categories of waste components as specified on the Arup landfill waste logging sheet.



D4.3.5 The sample was sifted through a number of times, removing separable components out from the main bulk into separate piles/trays for weighing. Anything remaining after the sifting process was deemed to be 'Other Non-Organics/Inorganics'. Once the engineers were satisfied that sufficient sifting had occurred each waste component was then weighed individually and recorded. Photos were sometimes (but not always) taken of the individual components as a record.

Final Stages

D4.3.6 The individual components were then recombined into one sample, and this was weighed and compared to the initial weight recorded to check for discrepancies (for example if some component was missing etc or errors). If there were any discrepancies noted, then checks would be made and the sample re-processed if necessary.

D4.3.7 Notes would also be made as to whether any asbestos containing material had been identified and the matrix (if present) would be described to BS5930:2015.

D4.3.8 The sample would then be put into a bulk bag and put into storage on site, before being disposed of at the end of the ground investigation.

D4.3.9 Calculations were then conducted to work out the relevant percentages of each waste component compared to the whole sample. (This process has been conducted automatically when entering the data into the excel spreadsheet from the PDF versions to avoid any errors).

Appendix D

Methodology for Assigning Waste Type

D5 Introduction

D5.1.1 This document aims to set out the methodology utilised during the process of assigning a waste type to each layer of landfill encountered during the 2018 Landfill Ground Investigation.

D5.1.2 Waste types for which landfill material would be categorised into are as follows:

Table 1: Waste Types

Waste Type	Description	Colour Assigned
Non-Chalky Cover	Cover material with a non-chalky matrix	Green
Chalky Cover	Cover material with a chalky matrix	Blue
Construction Waste	Material from construction projects	Orange
Recent Domestic Waste	Household waste from post-1970	Purple
Old Domestic Waste	Household waste from pre-1970	Light Purple
Industrial Waste	Factory, scrapyard etc waste	Brown
Commercial Waste	Office and retail waste	Yellow

D5.1.3 It is noted that each layer has been assigned one waste type. Though some layers exhibit characteristics of multiple waste types, the most dominant waste type has been chosen. This has been done to simplify the data analysis and creation of the ground model.

D6 Sources of Data for Waste Classification

D6.1.1 The following data sources were viewed and considered in deciding what to classify each waste strata as.

Table 2: Data Sources

Data Source	Description
2018 Landfill GI Exploratory Hole Logs	Borehole and trial pit logs from where landfill waste was encountered.
Arup site team logs	Arup shadow logs / notes generally from Trial Pits, but also some from shadow borehole logging.
GEL/AECOM supplied photos (WVP + LTCP)	Core photos and Trial Pits photos from 2018 Landfill GI.
Arup site team photos	Photos taken by Arup site team during 2018 Landfill GI
AECOM Forensic Waste Descriptions and Photos	Photos and original forensic logging sheets.
Arup Forensic Waste Photos	Photos taken from Arup shadowing forensic logging.

Data Source	Description
Arup – volumes derived from forensic logging	Arup's conversion of forensic values (by weight) from AECOM into volumes.

D7 Non-Chalky Cover

D7.1.1 Non-Chalky Cover has been defined as either material near surface used to “cap” the landfill, or daily capping layers from when the landfill was active. These are largely derived from superficial deposits such as Clay-with-Flints Formation, Dry Valley Deposits etc.

D7.1.2 This material is generally brown or orangish brown in colour and contains flint and more occasionally chalk gravel.

D7.1.3 The majority of these strata are natural materials (other non-organics) mostly soil with some inclusions of construction waste, but (generally) less than construction waste. Small proportions of other waste constituents may also be present within these layers, generally presumed to be from tracking of materials whilst being placed.

D7.2 Typical image and description of Non-Chalky Cover:



Location	Depth	Description
BH218	0.00 – 1.50m bgl	Grass over stiff friable brown slightly sandy slightly gravelly CLAY. Gravel is subangular and subrounded fine to coarse flint. Rare rootlets. (MADE GROUND)

D8 Chalky Cover

D8.1.1 Similarly to Non-Chalky Cover, this material has been defined as either material near surface used to “cap” the landfill, or daily capping layers from when the landfill was active. However, these are largely derived from Chalk rather than superficial deposits.

D8.1.2 Chalky cover is generally white, off-white or grey in colour and containing chalk and more occasionally flint gravel.

D8.1.3 The majority of these strata are natural materials (other non-organics), comprising mostly soil with some inclusions of construction waste but (generally) less than within construction waste. Small proportions of other waste constituents may also be present within these layers, generally presumed to be from tracking of materials whilst being placed.

D8.2 Typical images and descriptions of Chalky Cover:



Location	Depth	Description
BH202A	4.20 – 7.75m bgl	Firm locally soft grey locally mottled white slightly sandy slightly gravelly CLAY. Gravel is subangular and subrounded fine and medium chalk.



Location	Depth	Description
TP229	0.25 – 0.50m bgl	Brown slightly silty gravelly fine to coarse SAND. Gravel is angular to subrounded fine to coarse flint and off-white chalk.

D9 Construction Waste

D9.1.1 Construction Waste was typically encountered near surface as a “cover” layer but was also present throughout the landfill including at significant depths. It was largely derived from reworked natural superficial deposits and was brown or orangish brown in colour.

D9.1.2 Construction Waste was defined by the presence of brick and concrete with a lesser percentage of wood, plastic, glass, ferrous and other organics. However, in a small number of cases brick and concrete may be absent, but other typifying waste items would be present.

Waste Constituent	Typical Items Noted
Construction Waste	Brick Concrete Concrete with rebar.
Wood	Lumber Timber Wooden Posts Chipboard / MDF / Plywood
Plastic	Builders sacks Wrapping from bricks Electrical wiring
Ferrous	Rebar Piping Nails / Screws
Glass	Fragments
Other Organics	Fabric rags Hessian sacks
Other Inorganics	Soil (clay, silt, sand) Natural gravels (flint, chalk) Ceramic pipe Asphalt

D9.2 Photos of typical Construction Waste:



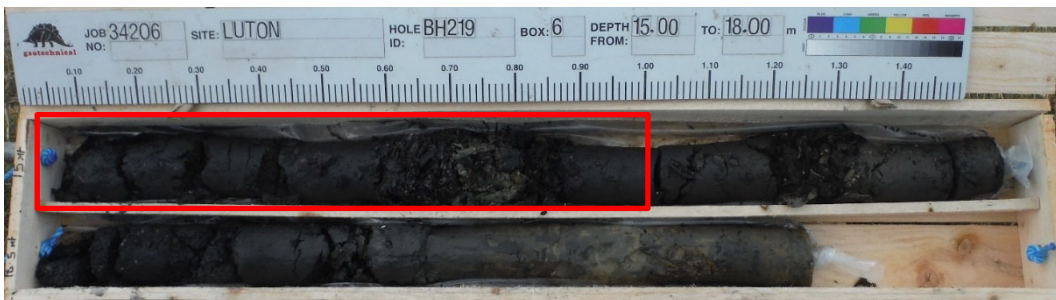


D10 Recent Domestic Waste

- D10.1.1 Recent Domestic Waste is any household waste from post-1970. It was most notably encountered within the eastern portion of the playing fields in WVP. It typically was largely formed of “black plastic bag” waste from household bins, mixed with other materials such as materials from skips from house clearances etc.
- D10.1.2 Typically, it was brown to dark grey in colour and was typified by the presence of plastic, newspapers and food containers. Where dates were identified this was used to separate the Recent Domestic Waste from Old Domestic Waste. In situations where no date was identified a combination of the types of items within the stratum and the composition of the strata above and below were taken into account.

Waste Constituent	Typical Items Noted
Construction Waste	Brick
Mixed Paper	School books Magazines Manuals
Newsprint	Typically in small numbers, single copies
Wood	Furniture Chipboard / MDF / Plywood
Plastic	Food wrappings – bread, frozen food etc Yoghurt pots Children's toys Shopping bags Bin bags Bottles Washing-up Liquid Bleach Cosmetics containers
Ferrous / Aluminium	Food cans Paint cans Drinks cans – beer and soft drinks Cooking utensils Nails
Glass	Fragments Lightbulbs Bottles Jars
Other Organics	Shoes Clothing Carpet Towels Leather bags, belts etc.
Other Inorganics	Soil (clay, silt, sand) Natural gravels (flint, chalk) Ceramic tile Ceramic and China plates/dishes Broken down material – too small to identify.

D10.2 Photos of typical Recent Domestic Waste:



D11 Old Domestic Waste

D11.1.1 Old Domestic Waste is any household waste from pre-1970. It was most notably encountered at depth across the site and in the west of the site in the LTCP. It typically was largely formed of ashy household waste, including newspaper, leather, bones etc. The waste closer to 1970 more resembled Recent Domestic Waste but typically with less plastic.

D11.1.2 Where dates were identified this was used to separate the Old Domestic Waste from Recent Domestic Waste. In situations where no date was identified a combination of the types of items within the stratum and the composition of the strata above and below were taken into account.

Waste Constituent	Typical Items Noted
Construction Waste	Brick
Mixed Paper	Books TV Magazines
Newsprint	Typically in small numbers, single copies, mostly more degraded.
Wood	Furniture Wood fragments
Plastic	Plastic bags Washing up liquid "Hard" plastics
Ferrous / Aluminium	Cans Tins Coins Nails Jar lids Bottle caps
Glass	Fragments Bottles Jars
Other Organics	Shoes Textiles Rubber gloves
Other Inorganics	Soil (clay, silt, sand) Natural gravels (flint, chalk) Tile Ceramic and China plates/dishes Broken down material – too small to identify. Clinker Ash Bone

D11.2 Photos of typical Old Domestic Waste:



D12 Industrial Waste

D12.1.1 Industrial Waste comprised a number of different sources of waste. These strata is largely waste from local factories, garages and the former scrapyards which was formerly in the northwest of the landfill. A number of locations identified waste which is likely to have come from the Vauxhall factory to the west of Luton Airport.

D12.1.2 The Industrial Waste also spans the entire history of the landfill, and therefore is varied in composition. For example, earlier Industrial Waste typically contains more construction waste, ash, clinker and slag than the later industrial waste of the 1960s and 1970s. Brick and concrete were often present in higher quantities in all industrial waste.

Waste Constituent	Typical Items Noted
Construction Waste	Brick Concrete
Mixed Paper	Instruction manuals
Newsprint	Rare newspapers
Wood	Furniture Wood fragments
Plastic	“Hard” plastics Malformed plastic Waste plastic from moulding Rare food wrappings
Ferrous / Aluminium	Scrap metal Car parts Machine parts Cans Tins Steel/iron sheets
Glass	Fragments Bottles Jars
Other Organics	Rubber Foam Tyres Vinyl Fabric scraps and offcuts
Other Inorganics	Soil (clay, silt, sand) Natural gravels (flint, chalk) Tile Clinker Ash

Waste Constituent	Typical Items Noted
	Slag

D12.2 Photos of typical Industrial Waste:



D13 Commercial Waste

D13.1.1 Commercial Waste appeared to typically be office, school or retail waste from shops or the airport. It was characterised by typically greater amounts of mixed paper, newsprint, corrugated, plastic and wood in the form of pallets.

Waste Constituent	Typical Items Noted
Construction Waste	Brick
Mixed Paper	Flight directories Bank statements Pension statements Commercial catalogues Time Cards Magazines
Newsprint	Large stacks of newspapers including the same newspaper repeated several times.
Corrugated	Cardboard boxes Cigarette packages
Wood	Pallets
Plastic	Airline cutlery and food packaging Plastic bags Polystyrene
Ferrous / Aluminium	Ring binders
Glass	Fragments
Other Organics	Fabric Shoes
Other Inorganics	Soil (clay, silt, sand) Natural gravels (flint, chalk)

D13.2 Photos of typical Commercial Waste:



Appendix D

D14 Summary of Laboratory Forensic Analysis

Exploratory hole ref.	BH203	BH204	BH214	BH207A	GW203	GW203	TP205	TP212	TP213	TP214	TP216	TP216	TP221	TP222	TP228	TP242	TP264	TP276	BH217	BH222	TP243	TP251	TP252	
Depth (m)	9.00	12.00 - 13.00	15.50 - 16.50	12.00 - 13.50	2.10 - 4.35	5.85 - 8.85	1.50	4.00 - 4.10	4.50	3.40	2.80	4.50	4.50	3.00 - 3.20	3.50	5.50	5.70	3.50	7.70 - 8.40	3.50 - 4.00	3.00 - 3.10	4.00 - 4.20	4.10 - 4.20	
Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	
Date Sampled	05/07/2018	06/07/2018	10/07/2018	02/07/2018	-	-	-	07/07/2018	05/07/2018	-	05/07/2018	25/06/2018	26/06/2018	05/07/2018	05/07/2018	17/07/2018	03/07/2018	16/07/2018	04/12/2018	06/12/2018	30/11/2018	06/12/2018	07/12/2018	
Date Received (by laboratory)	06/07/2018	14/07/2018	25/07/2018	14/07/2018	28/06/2018	28/06/2018	28/06/2018	14/07/2018	06/07/2018	28/06/2018	06/07/2018	14/07/2018	14/07/2018	06/07/2018	06/07/2018	25/07/2018	20/07/2018	25/07/2018	13/12/2018	13/12/2018	13/12/2018	13/12/2018	13/12/2018	
SDG Ref.	180706-120	180716-11	180725-86	180716-11	180703-28	180703-28	180703-28	180716-11	180706-120	180703-28	180706-120	180716-11	180716-11	180706-120	180706-120	180725-86	180720-15	180725-86	181213-32	181213-32	181204-86	181213-32	181213-32	
Lab Sample No.	17887926	17940297	18003597	17940299	17860441	17860437	17860446	17940307	17887924	17860450	17887920	17940311	17940309	17887917	17887922	18003599	17971839	18003602	18948835	18948839	18948809	1894831	18948826	
Component	Units																							
Total Sample Weight	g	7330	9390	8.84	13200	7410	5480	15500	14200	12300	14400	8970	15000	10300	15100	8970	10900	3.08	10.4	8660	6120	3410	7170	5110
Coarse Inert Particles, including Gravel, Concrete	% w / w	4.08	17.2	15.8	16.7	19.5	34	41.6	47.6	26.4	16.5	7.52	31.4	16.9	28.5	7.52	18.1	0.65	12.6	16.4	17.3	1.79	8.44	12
Visible Wood, Branches, Trees etc	% w / w	16.5	11.7	1.78	1.59	24.7	5.53	3.42	8.65	6.81	3.88	8.26	0.593	9.94	3.59	8.26	3.66	0	2.13	10.5	0	0	2.15	12.6
Visible Vegetation, Grass, Food Waste etc.	% w / w	0.0136	0.0106	0	0.00755	0.121	0	0	0	0	0	0.0112	0.00666	0	0.00661	0.0112	0	0	0	0.173	0	2.2	0	0.0587
Visible Cloth, Leather	% w / w	35.4	1.64	0.905	0.709	9.85	11.5	0	2.41	2.78	0.00696	0.836	0	10.2	12.2	0.836	15.4	65.3	5.42	6.5	0.833	0.617	2.46	0
Visible Metal, Glass, Ceramics, other inert mat.	% w / w	3.25	6.03	3.56	2.03	9.66	31.3	0.168	0.555	3.96	6.58	10.2	0.307	4.88	4.98	10.2	6.43	11.1	7.13	4.79	3.07	5.81	23.4	3.05
Other Degradable Material	% w / w	8.77	10.7	1.72	4.7	16.6	9.29	0.0711	1.65	18.1	2.35	33.8	0.147	17.3	4.77	33.8	9.47	18.3	2.51	5.67	15.9	57.6	28.3	23.2
Fine Soil including Gravel <10mm	% w / w	32	52.7	76.2	74.2	19.6	8.32	54.7	39.1	41.9	70.7	39.4	67.5	40.7	45.9	39.4	47	4.68	70.3	56	62.8	32	35.3	49.1
Total Sample Weight (kg)	kg	7.33	9.39	0.0088	13.2	7.41	5.48	15.5	14.2	12.3	14.4	8.97	15	10.3	15.1	8.97	10.9	0.0031	0.0104	8.66	6.12	3.4	7.17	5.11

Appendix D

Forensic Data – Representative Checks

D15 Data Obtained and Quality Assurance

D15.1 Data Assessment

D15.1.1 A total of 189 samples were selected for forensics assessment. As the trial pit locations provided the most volume of sample, and therefore allowed for a more detailed forensics assessment, there was a preference for selecting and assessing these samples during the fieldworks. This resulted in 107 trial pit samples (Figure 1) being selected for forensics assessments with the remaining 82 samples originating from borehole core runs (Figure 2). A slight bias of sample depth is therefore observed, with 139 samples being collected from the top 6m depth of the landfill (trial pit and borehole locations). Forensic analysis was carried out in 50 samples collected from below 6m depth (borehole locations only) providing a good spread of data with depth in the landfill.

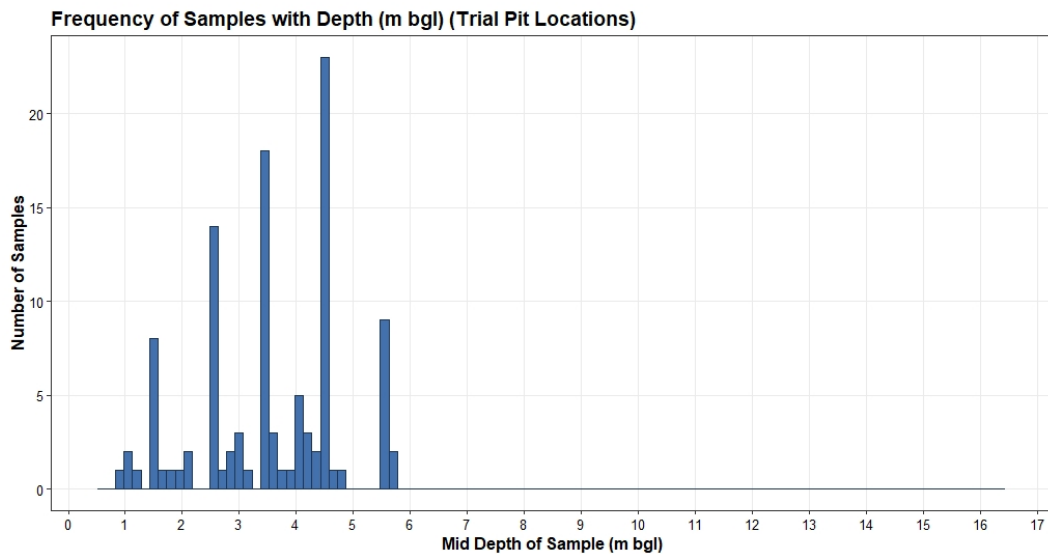


Figure 1: Frequency of sampling from trial pit locations with depth below ground level

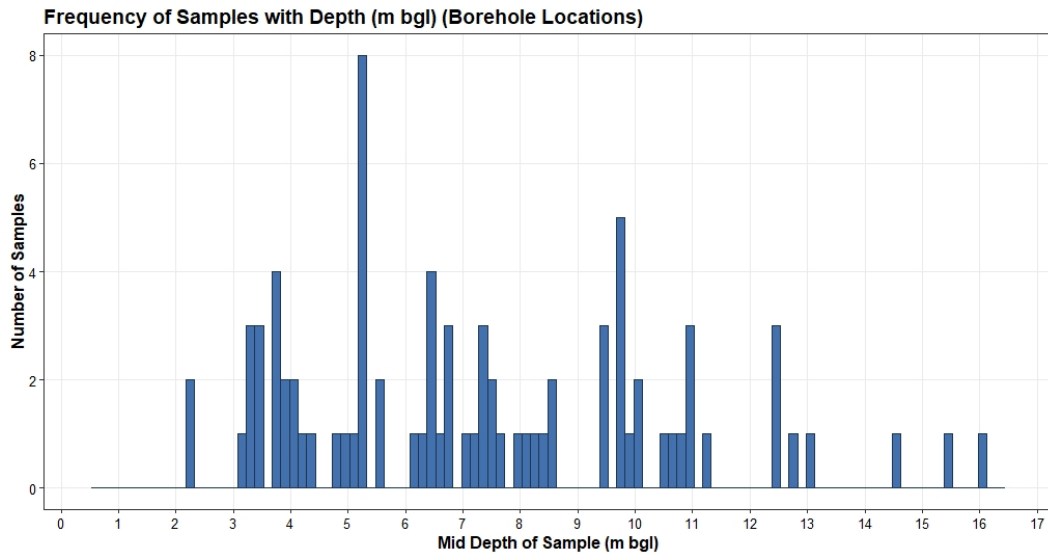


Figure 2: Frequency of sampling from borehole locations with depth below ground level

D15.1.2 The selection of samples for assessment was, for the most part, determined visually with the objective of obtaining detailed waste fraction composition that would allow categorisation of each sample, and therefore, its corresponding strata. Samples that were visually assessed as representing a cover layer (chalky or non-chalky) were generally not selected for analysis with the exception of three samples selected for confirmation of absence of minor components.

D15.1.3 A total of 79 samples of domestic waste, 26 samples of commercial waste, 33 samples of industrial and 48 samples of construction waste were assessed. The breakdown of samples assessed against their waste type is presented in Table 1.

Table 1: Breakdown of forensics assessment per waste category

Waste Type	No. of samples assessed
Chalky cover	2
Non-chalky cover	1
Old Domestic	19
Recent Domestic	60
Commercial	26
Industrial	33
Construction	48
Total	189

- D15.1.4 Good correlations were found between the fraction of each waste component measured in the samples under laboratory conditions and the results obtained in the field laboratory. Figure 3 below presents the weight percentage obtained for the wood component under the two conditions. The data obtained for other waste components is presented in Appendix B.
- D15.1.5 Similarly to the fieldwork findings, the analysis carried out in the laboratory confirmed the low levels of food, garden and biological waste in the landfill samples. Overall, the laboratory assessment carried out in 23 samples provides confidence in the field results obtained for 189 samples.

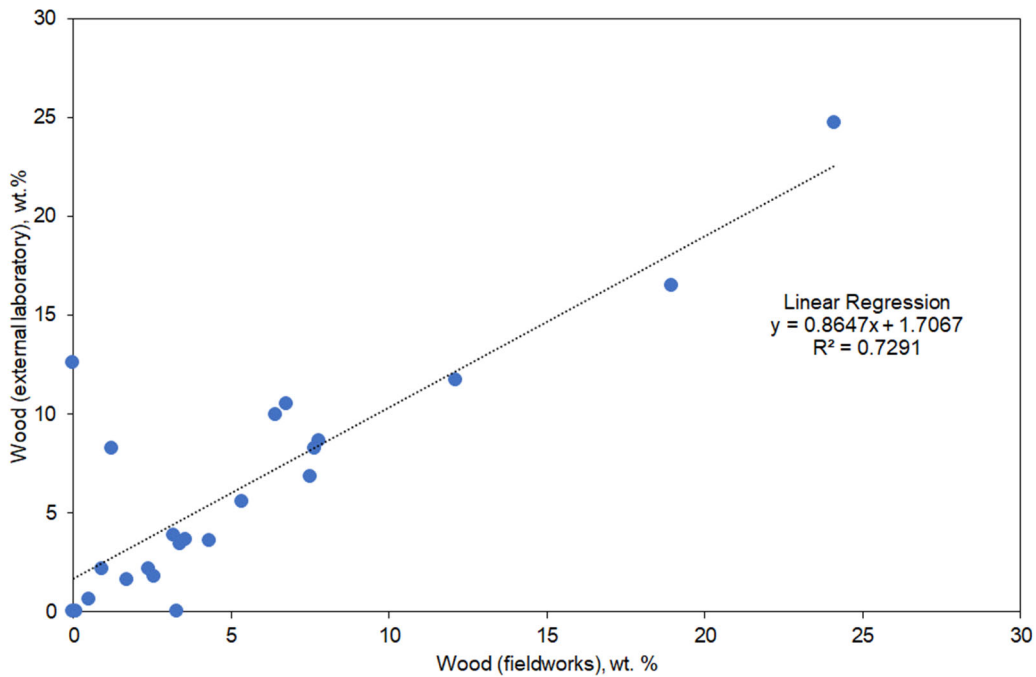


Figure 3: Laboratory measurement of the fraction of wood versus the fieldwork measurement of the fraction of wood.

Appendix D

Waste Chemistry

D16 Introduction

D16.1.1 This section presents “Box and Whisker” plots demonstrating the range of concentrations from laboratory results for 14 different representative contaminants.

D16.1.2 The contaminants which have been plotted are as following:

- a. Lead;
- b. Arsenic;
- c. Copper;
- d. Mercury;
- e. Benzo(a)pyrene;
- f. Benzene;
- g. Naphthalene;
- h. Vinyl Chloride;
- i. 1,2-Dichloroethane;
- j. 1,3,5-Trimethylbenzene;
- k. 1,2,4-Trimethylbenzene;
- l. Bis(2-chloroethoxy)methane;
- m. Dibenzofuran;
- n. Trichloroethene.

D16.1.3 These contaminants have been sorted by a number of filters to show the data in different ways, these are discussed below.

D16.2 Split by Era

D16.2.1 First the data was sorted by “Era” of landfill construction/filling the eras are defined as:

- a. **Pre-1947** – earliest period of landfill WWII era;
- b. **1947 to 1955** – post war landfill;
- c. **1955 to 1960** – period during which the Clean Air Act was introduced;
- d. **1960 to 1970** – major phase of landfill, defined by introduction of larger volumes of plastics; and
- e. **1970 to 1980** – final stage of landfill defined by large volumes of “black bag waste” before a non-engineered cap was placed.

D16.3 Split by Waste Type

D16.3.1 Secondly the data was sorted by “Waste Type” as defined within the report, the waste types are as follows:

- a. **Construction** waste;
- b. **Industrial** waste;
- c. **Commercial** waste;
- d. **Recent Domestic** waste;
- e. **Old Domestic** waste;
- f. **Chalky (daily) Cover**;
- g. **Non-chalky (daily) Cover**;
- h. Non-landfill **Made Ground**.

D16.4 Waste Type split by Era

D16.4.1 The data has also been sorted by a combination of Era and Waste Type.

D16.4.2 First the data was split to show a contaminant within a certain waste type, split by era.

- a. Example: **Lead** within **construction** waste split by **era** shows the highest concentration of lead within this type of waste was in 1955 to 1960.

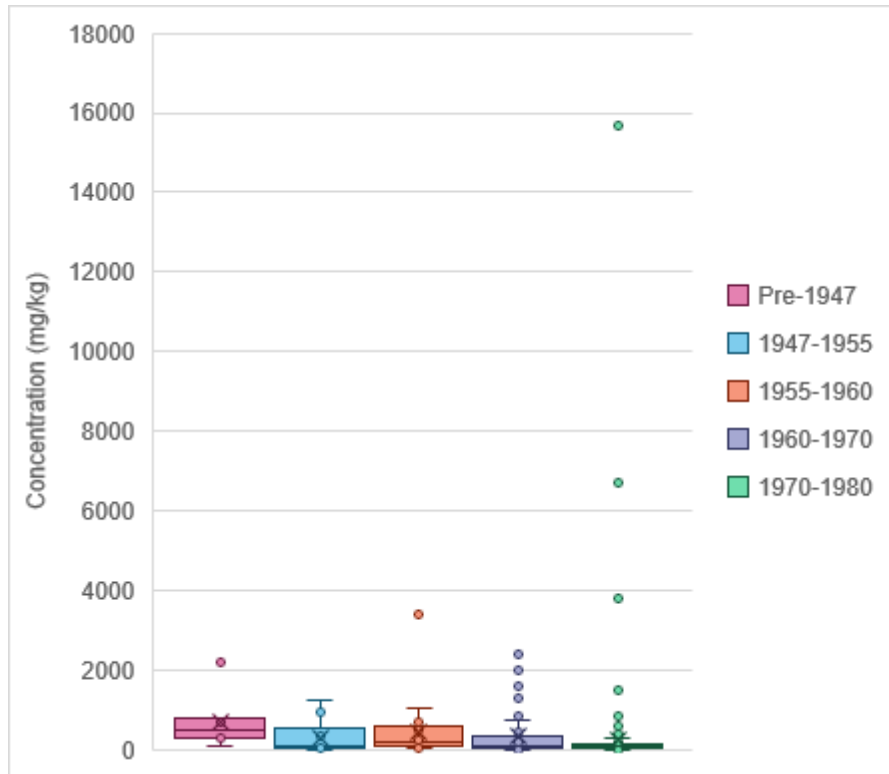
D16.5 Era split by Waste Type

D16.5.1 Second the data was split to show a contaminant within a certain era, split by waste type.

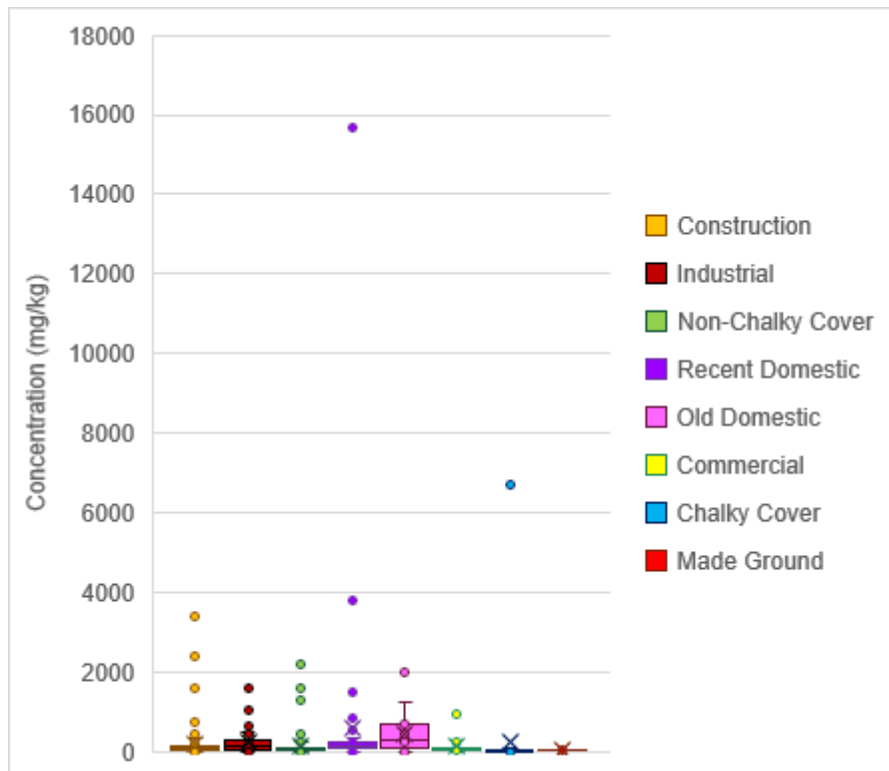
- a. Example: **Lead** contamination from between **1947 and 1955** split by **waste type** shows the highest concentration of lead within this era was in old domestic waste.

D17 Lead

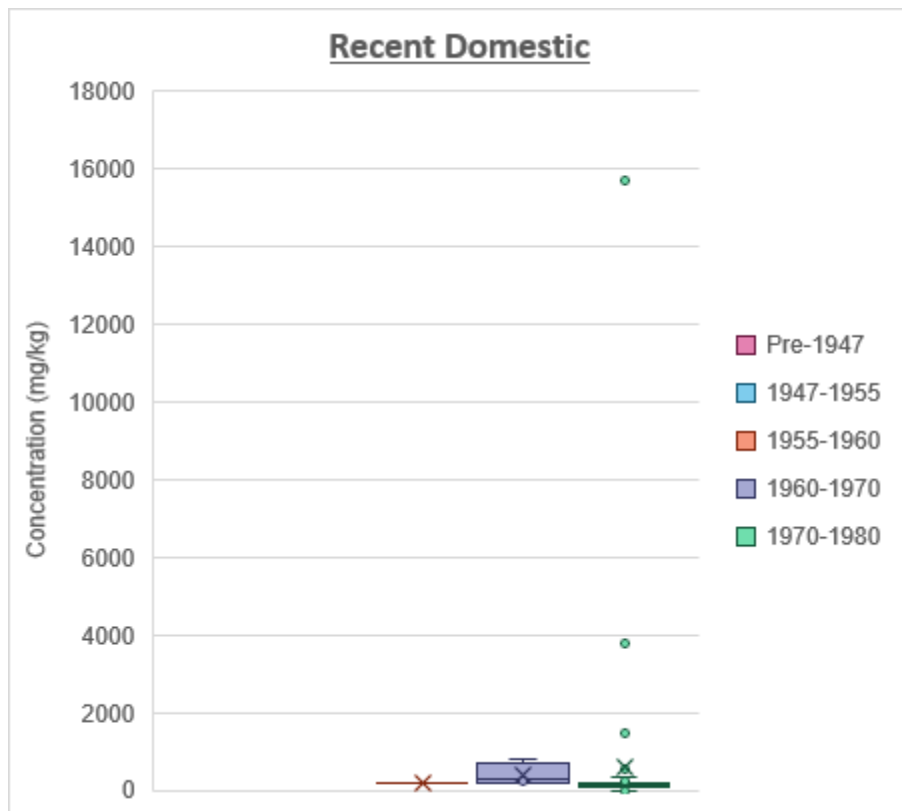
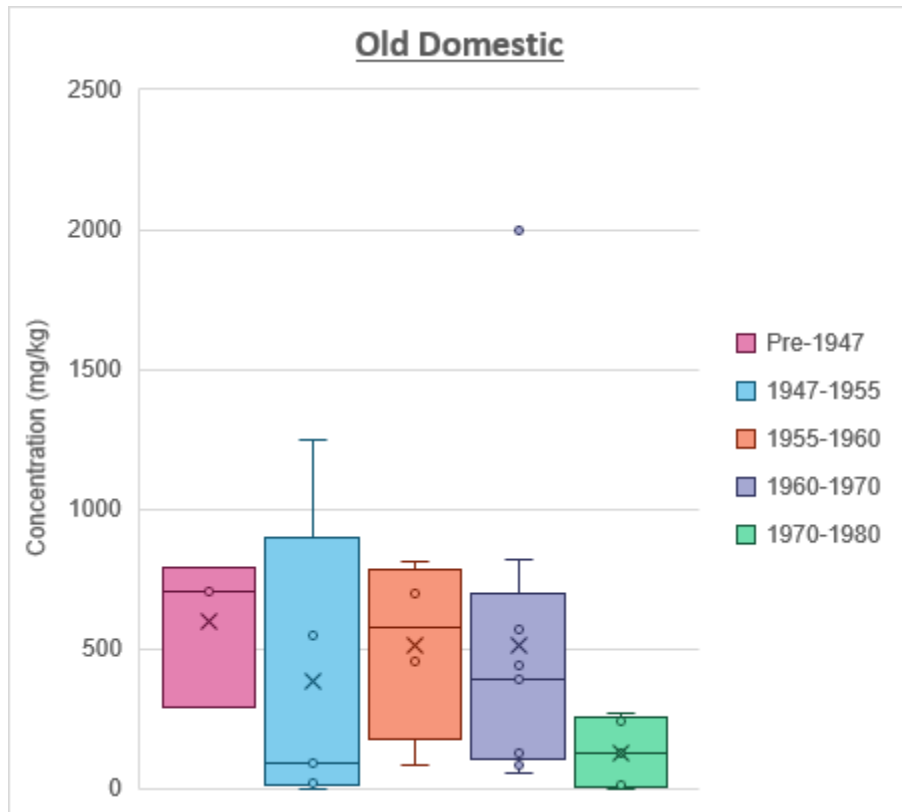
D17.1 Concentration by Era

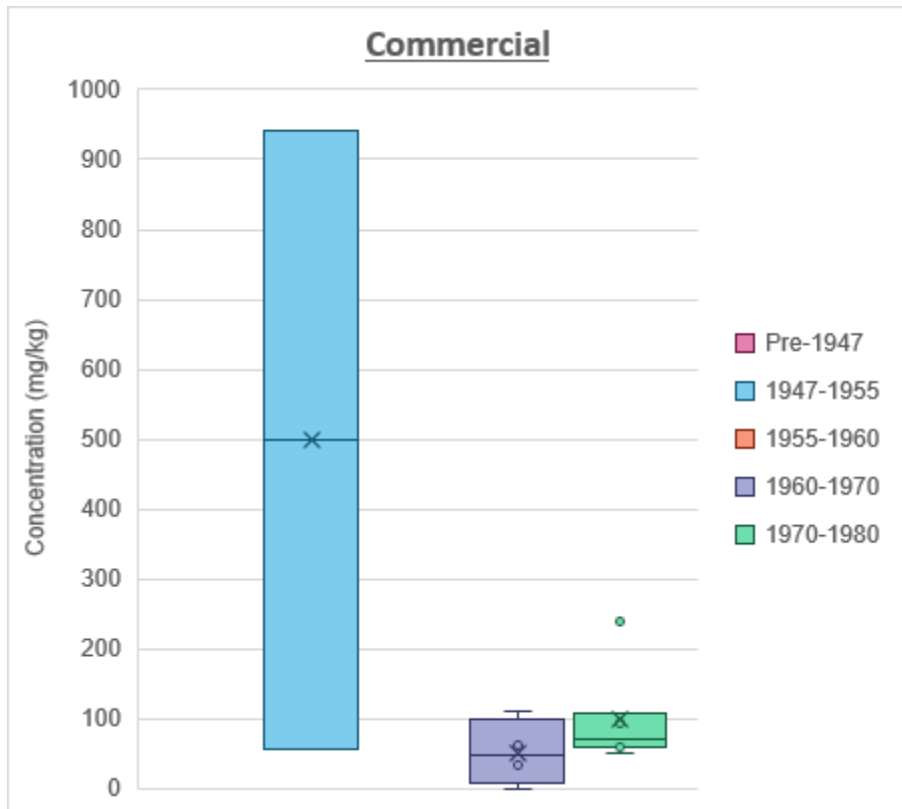
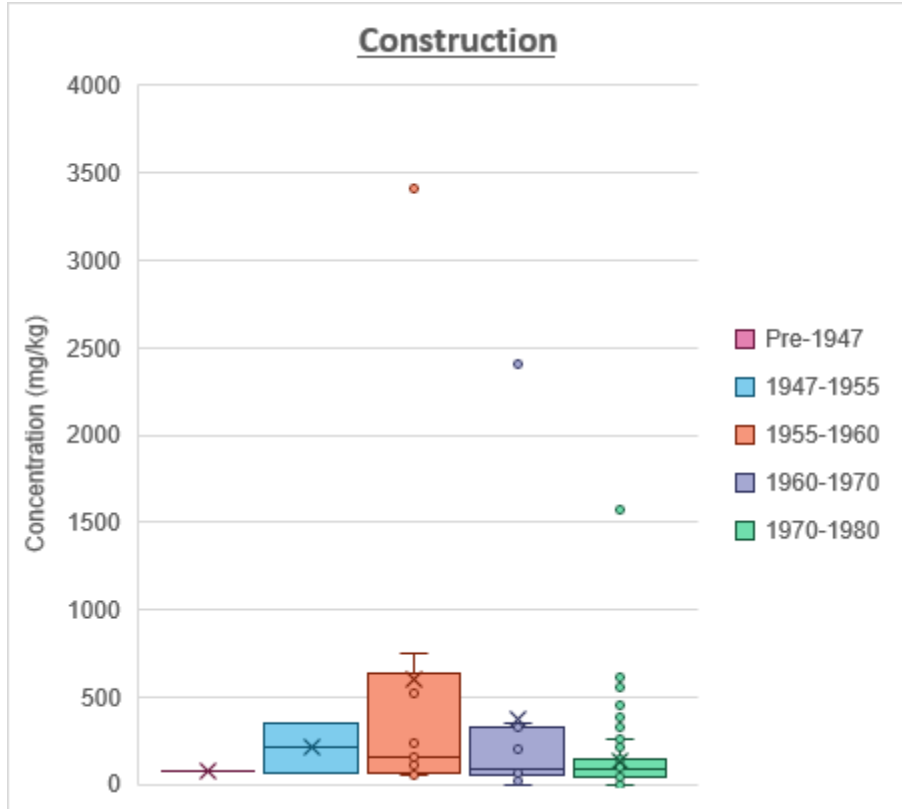


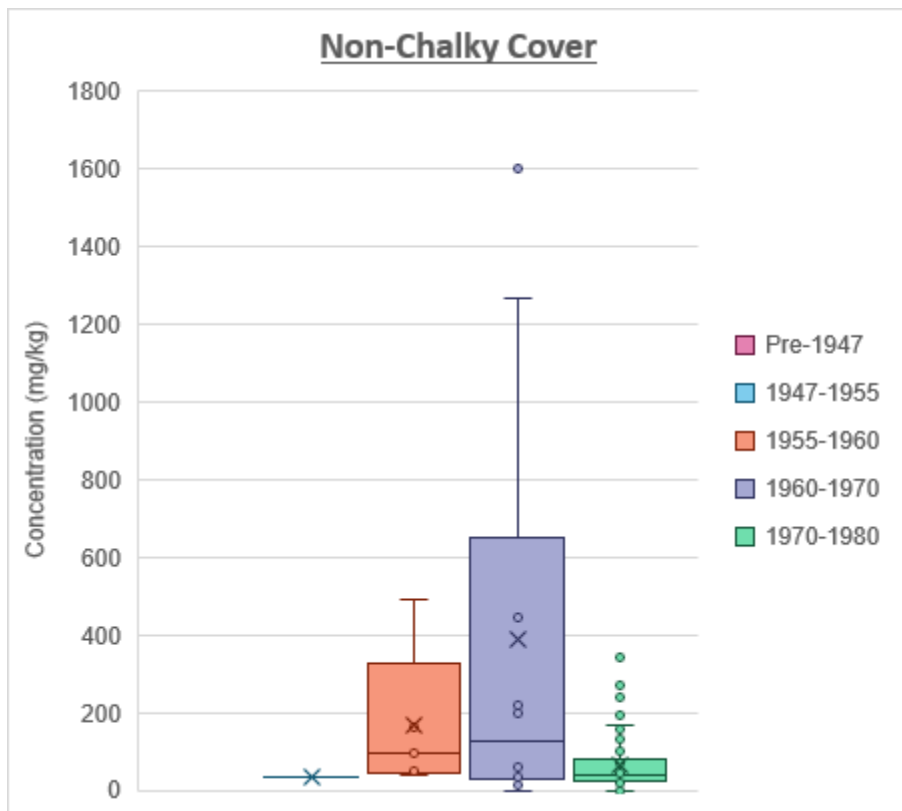
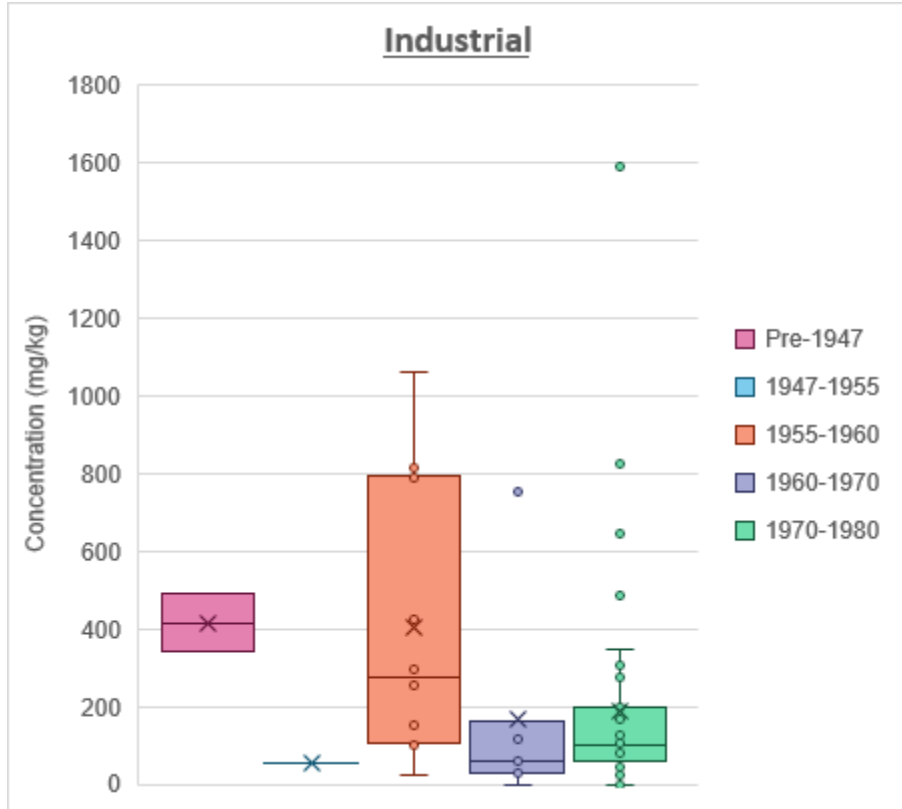
D17.2 Concentration by Waste Type

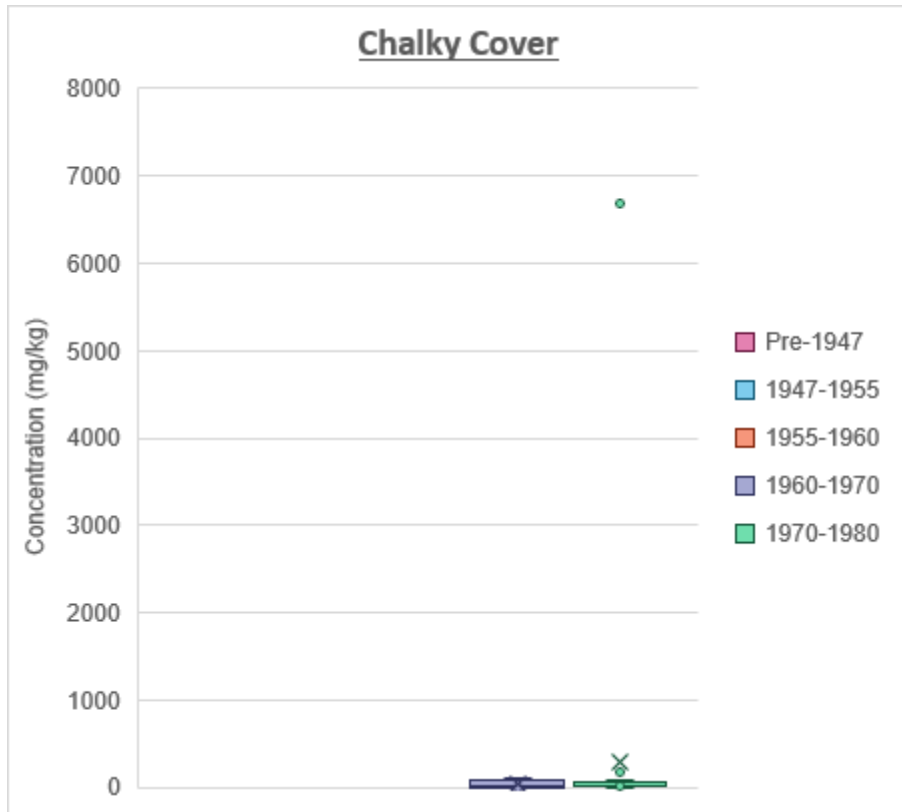


D17.3 Concentration by Waste Type and Era

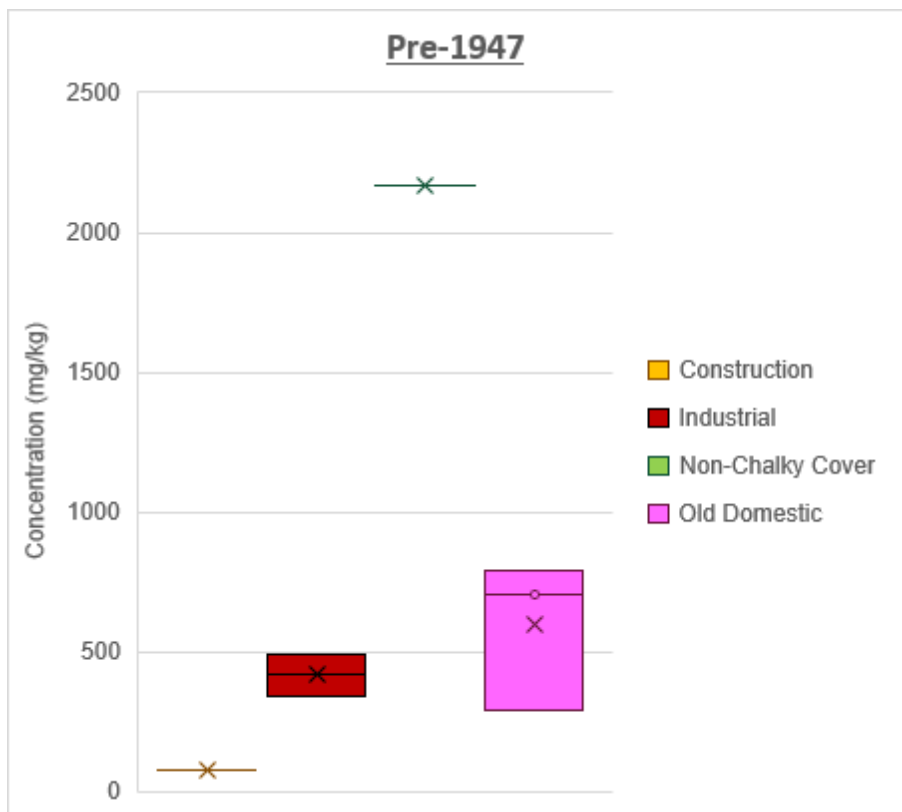


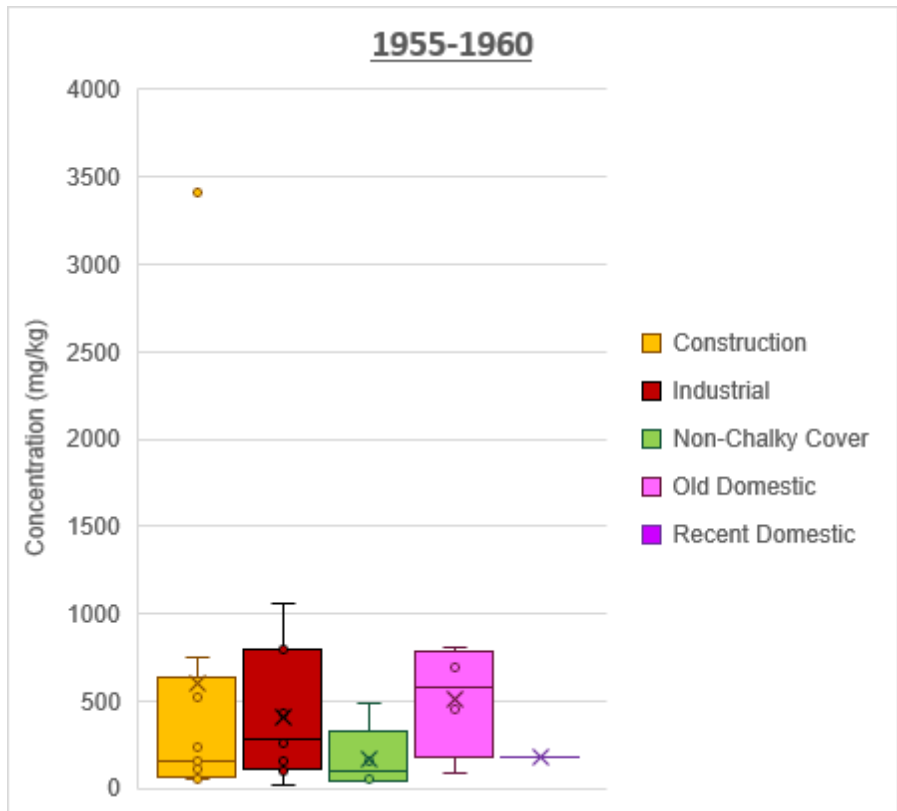
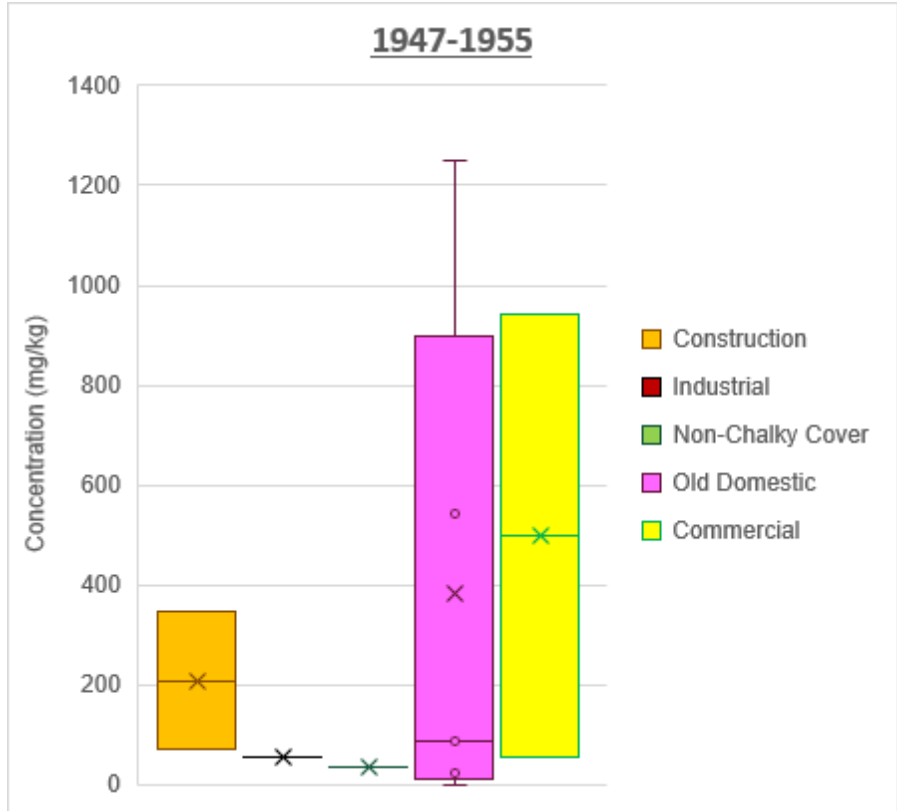


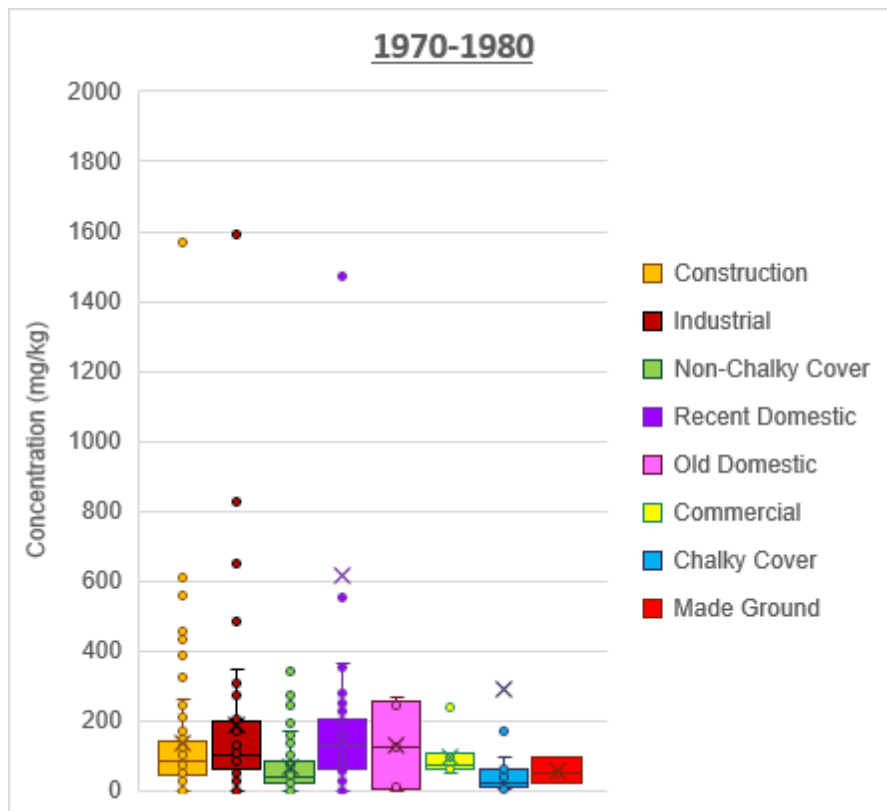
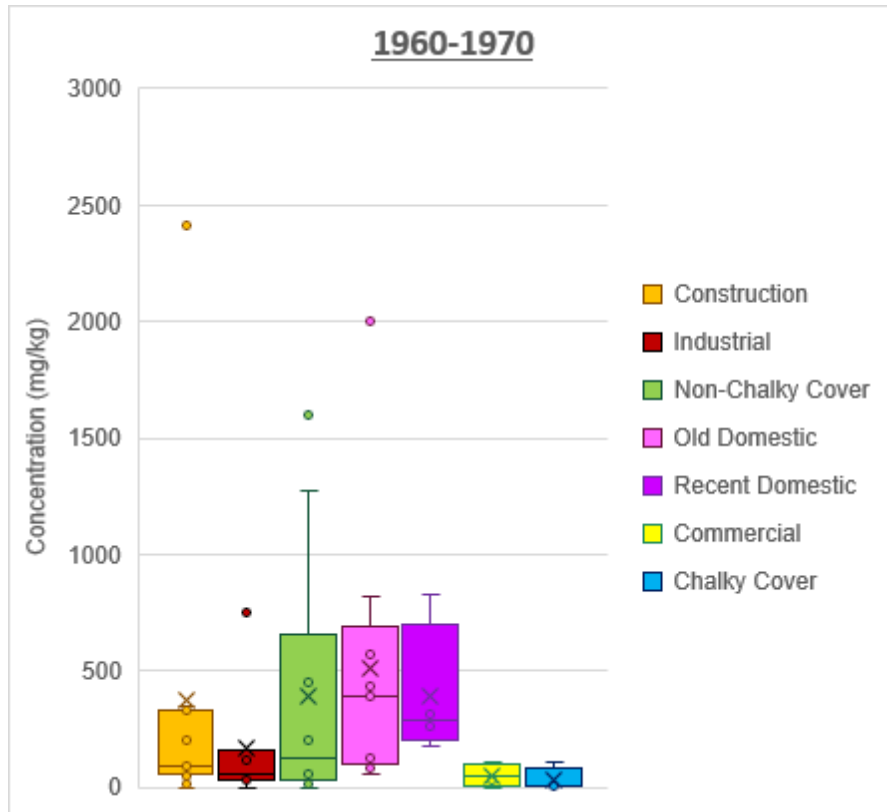




D17.4 Concentration by Era and Waste Type

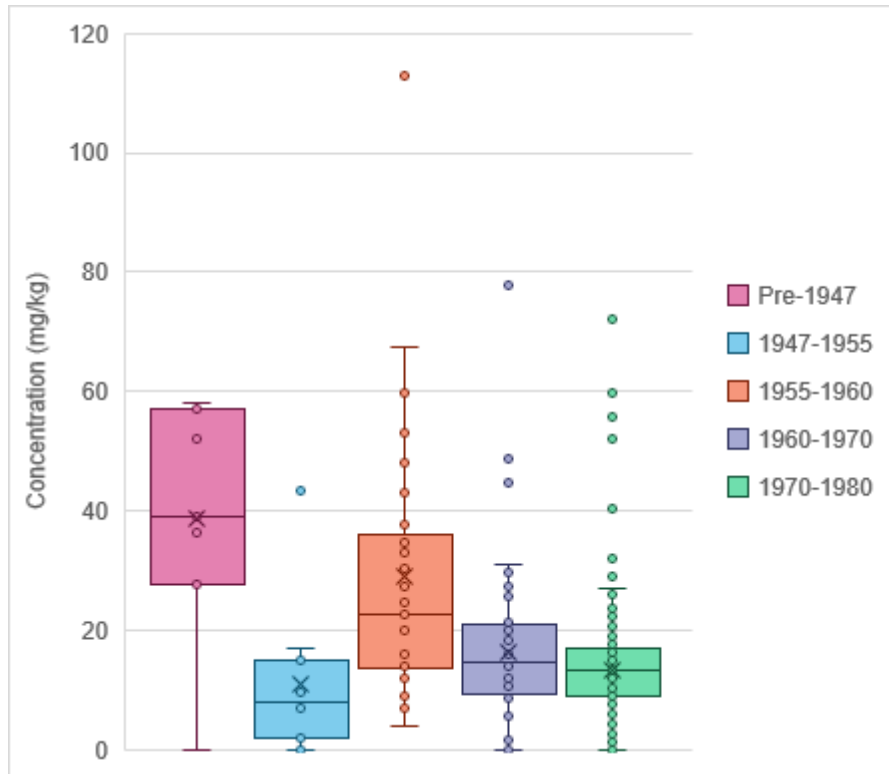




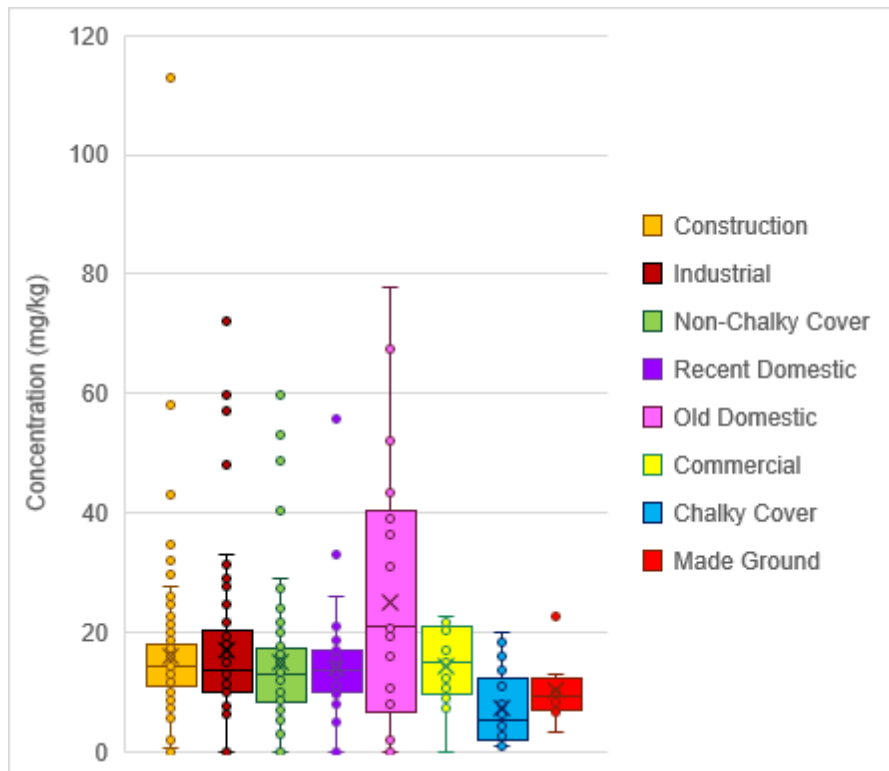


D18 Arsenic

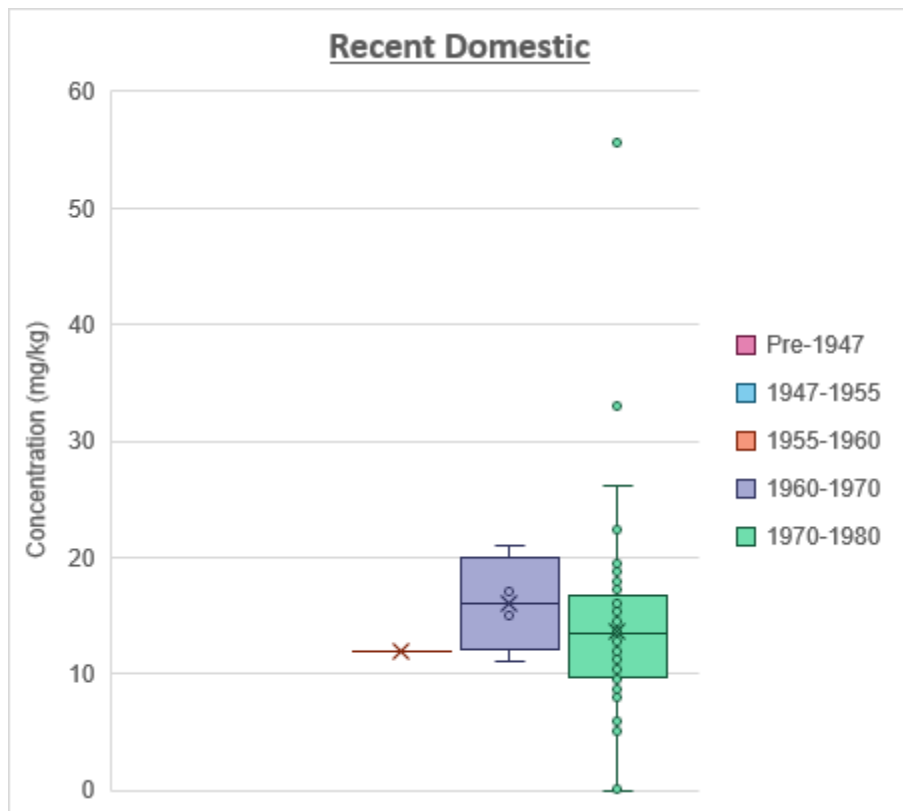
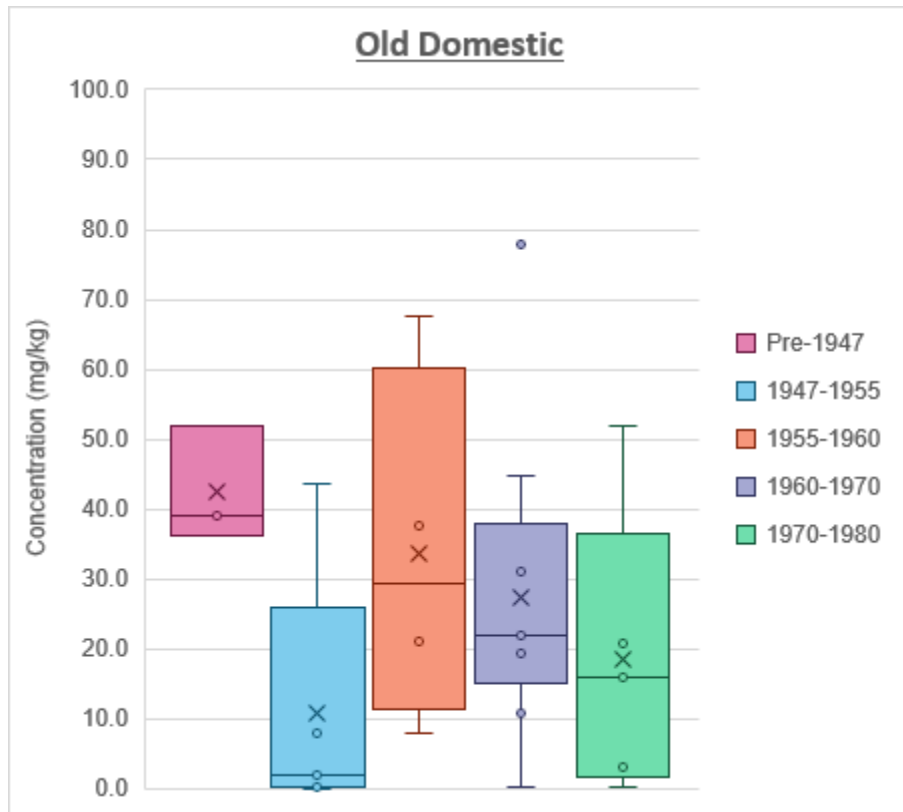
D18.1 Concentration by Era

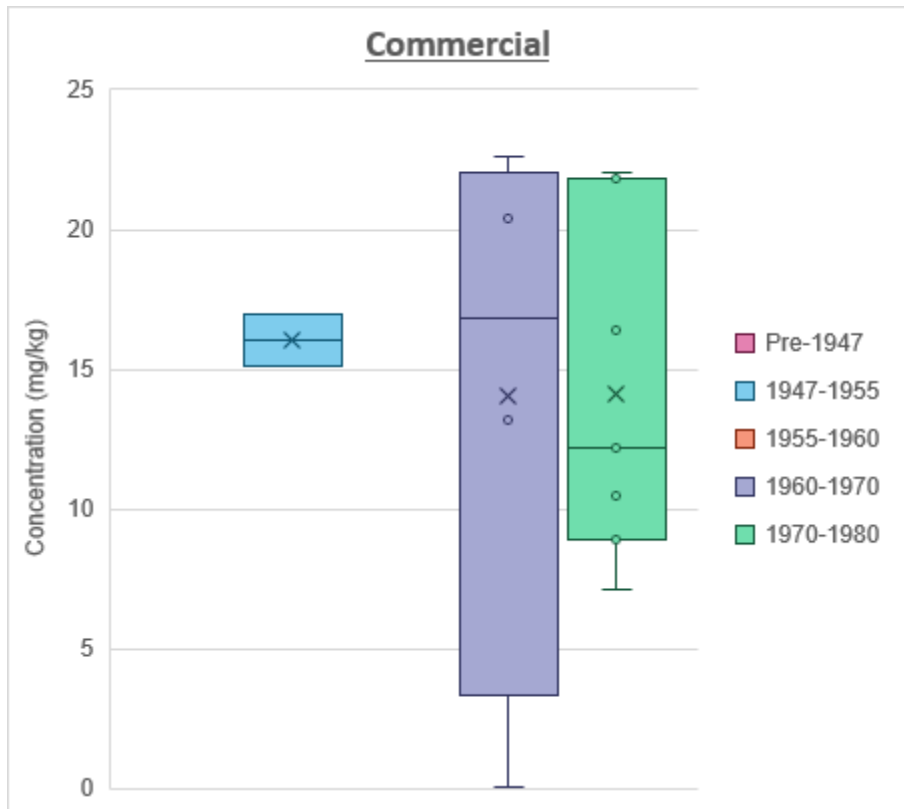
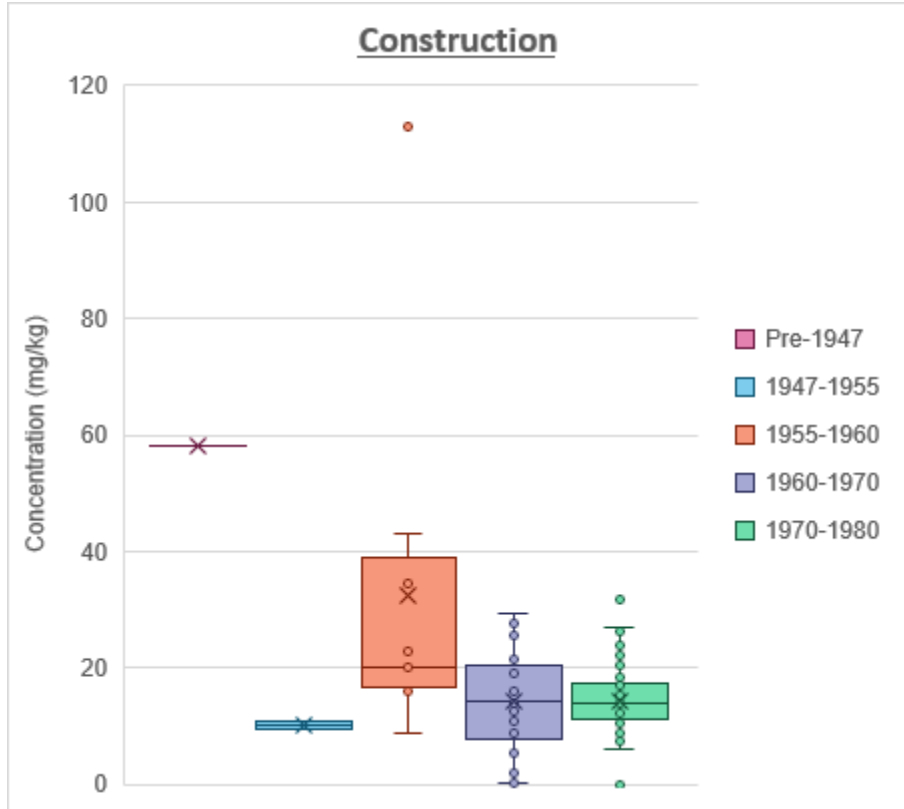


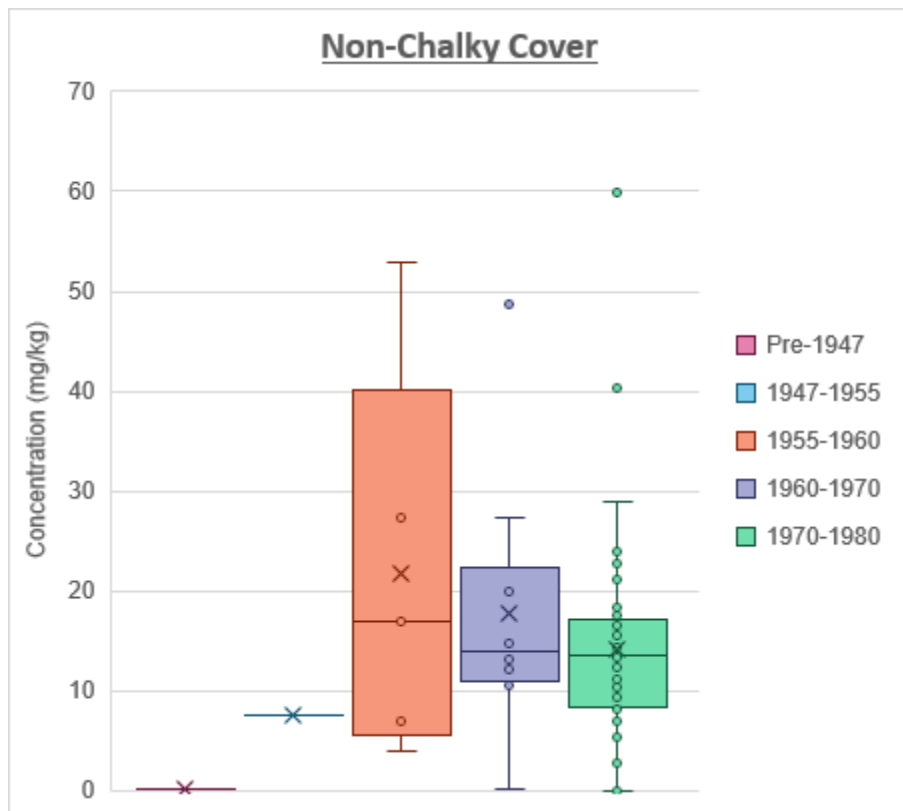
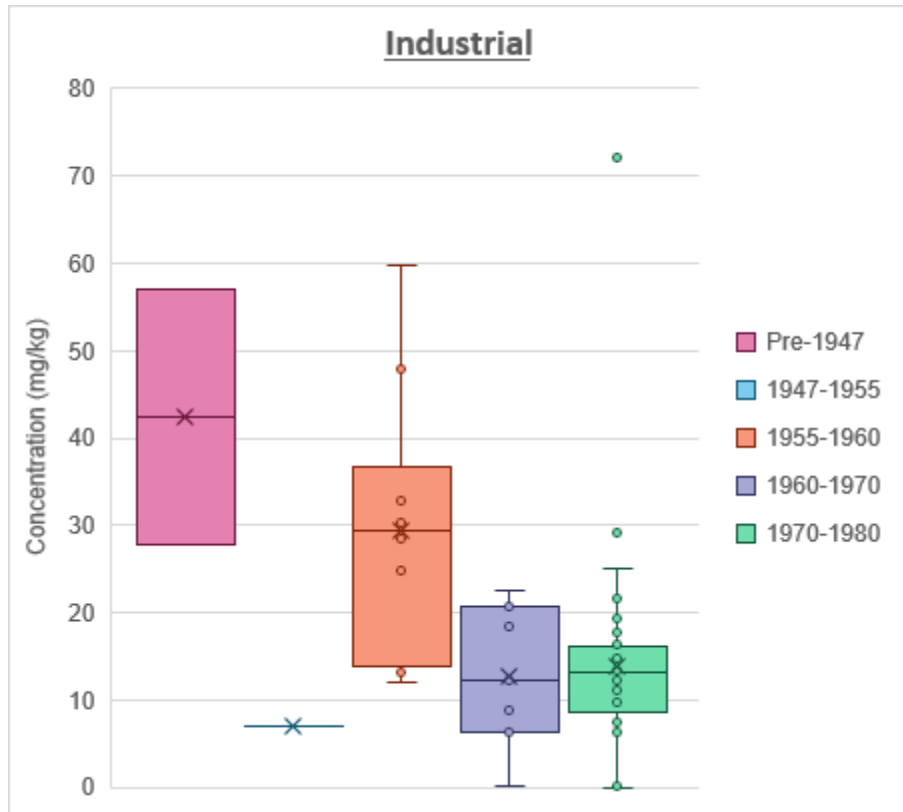
D18.2 Concentration by Waste Type

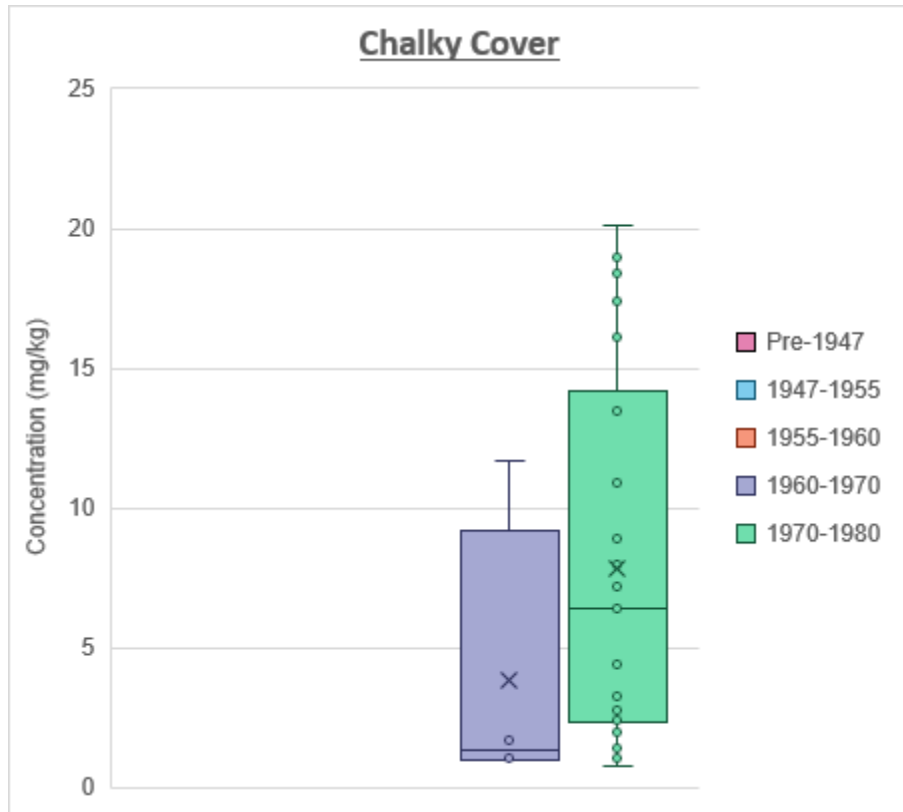


D18.3 Concentration by Waste Type and Era

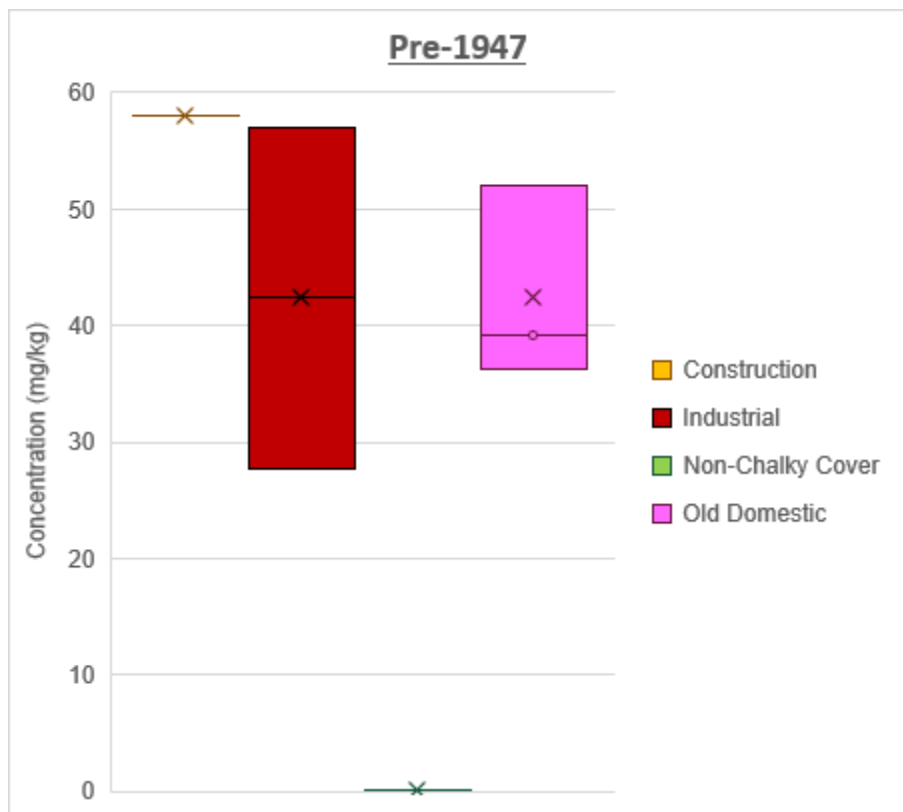


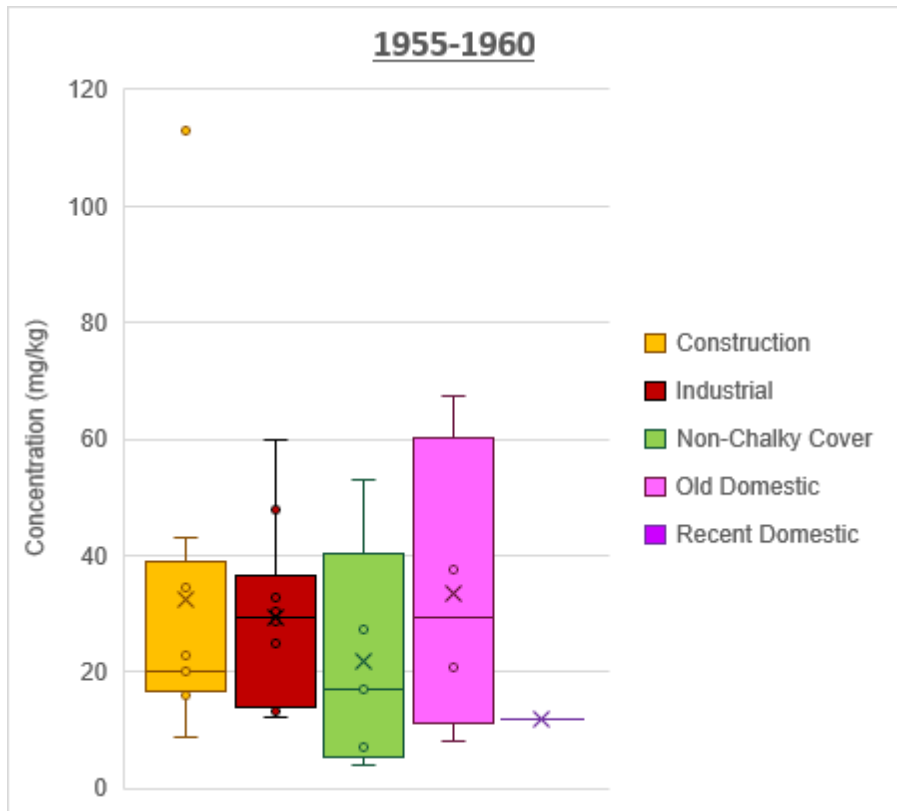
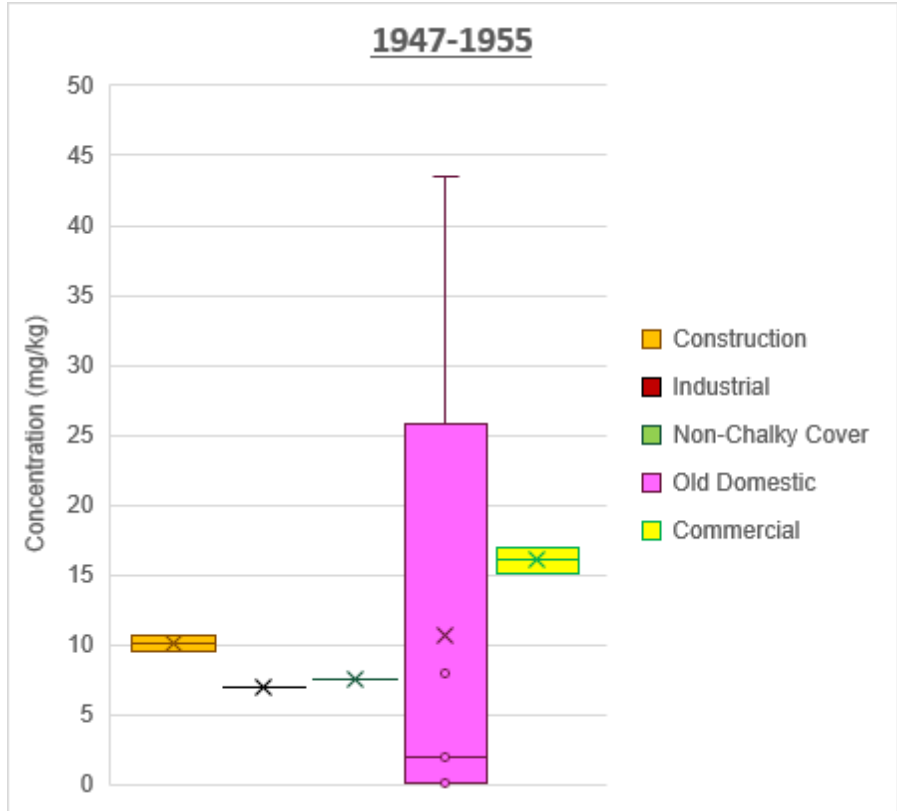


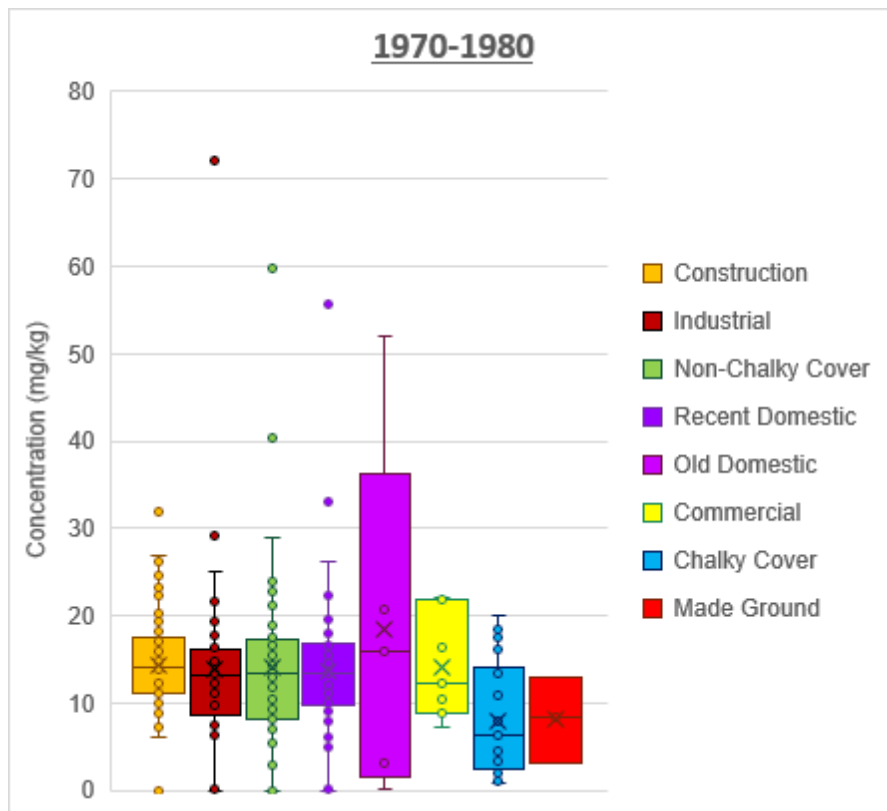
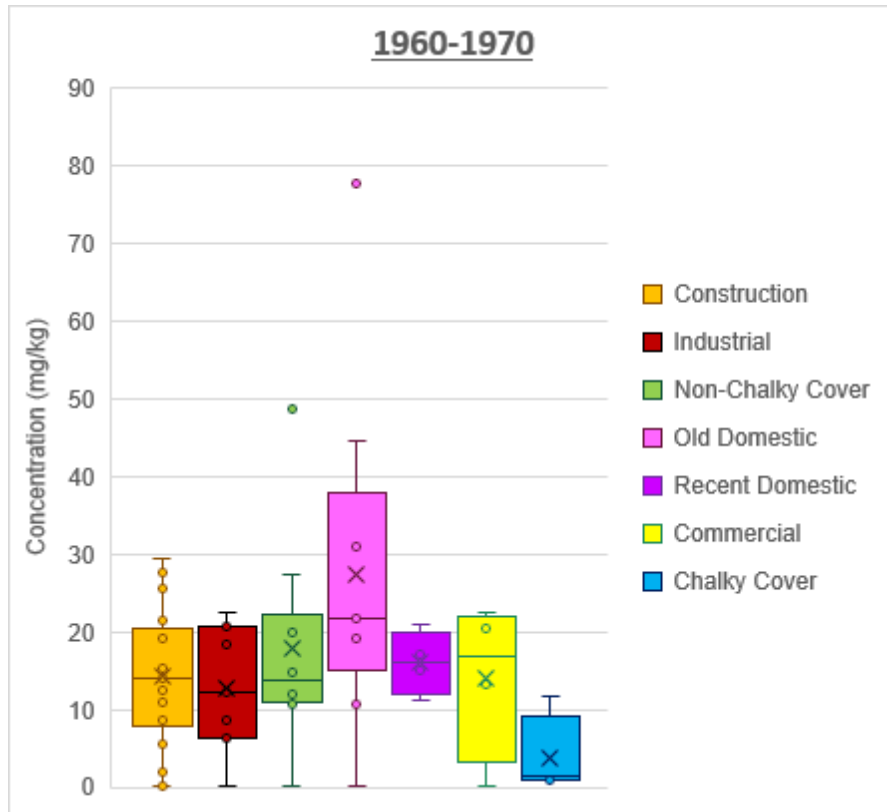




D18.4 Concentration by Era and Waste Type

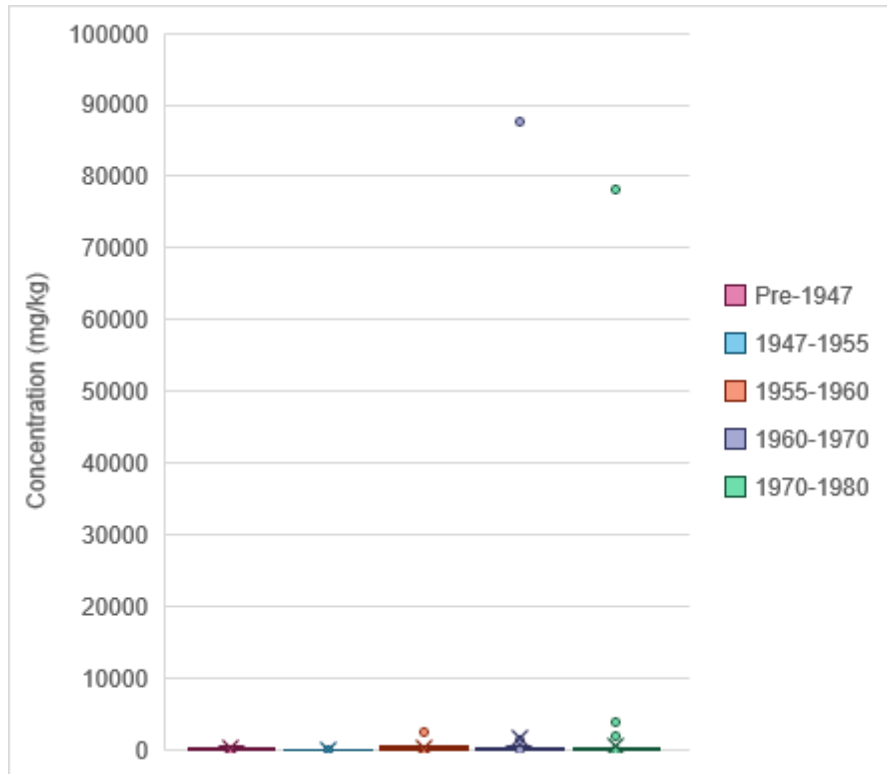




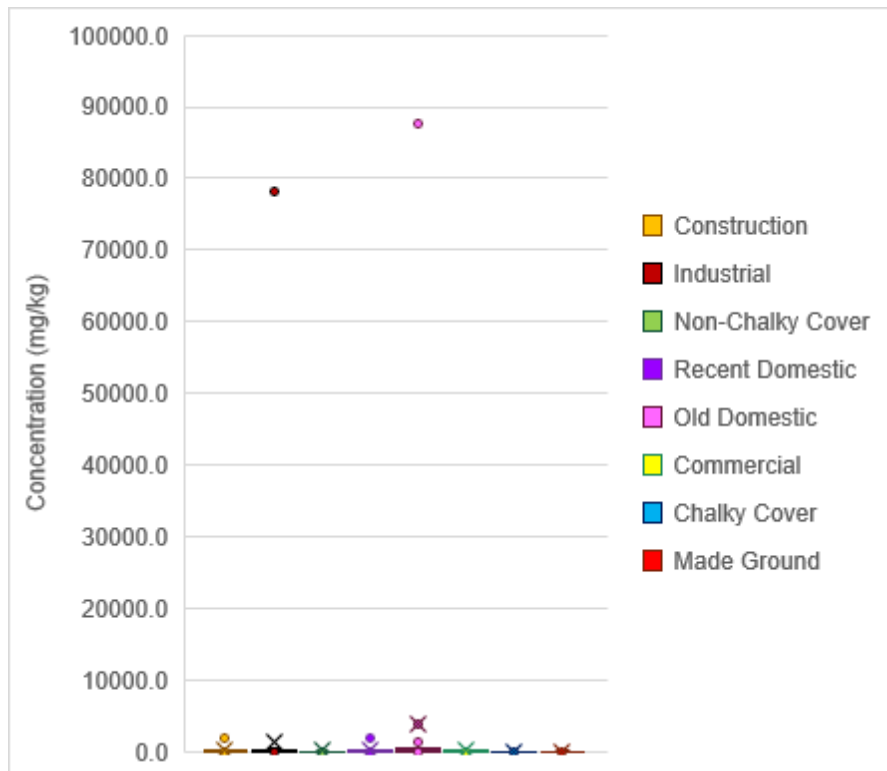


D19 Copper

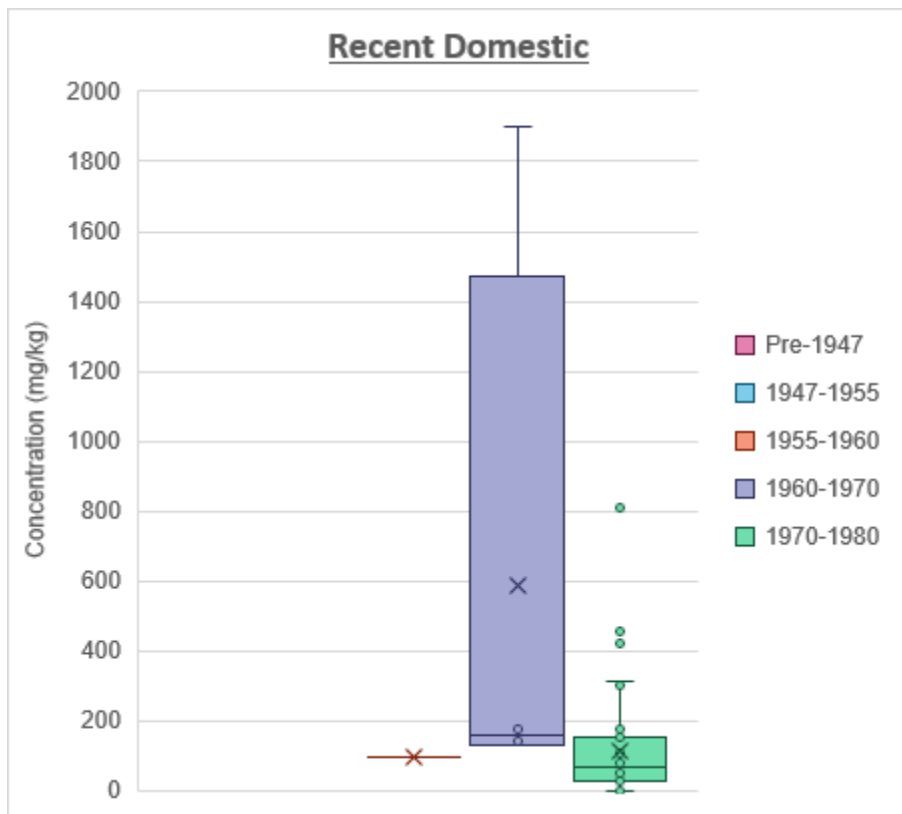
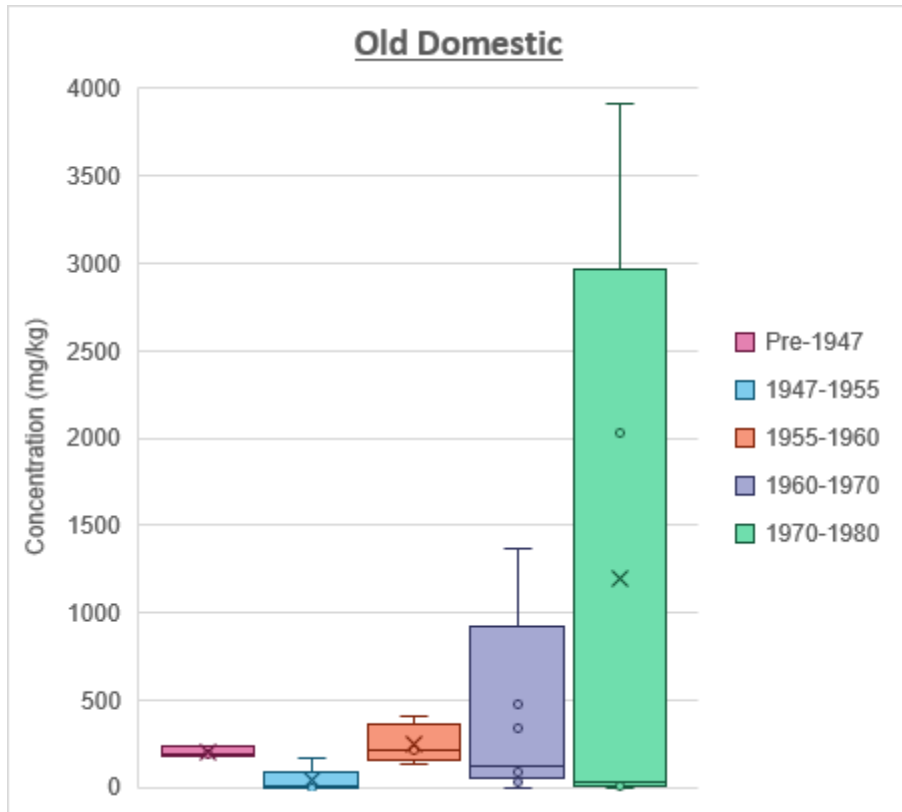
D19.1 Concentration by Era

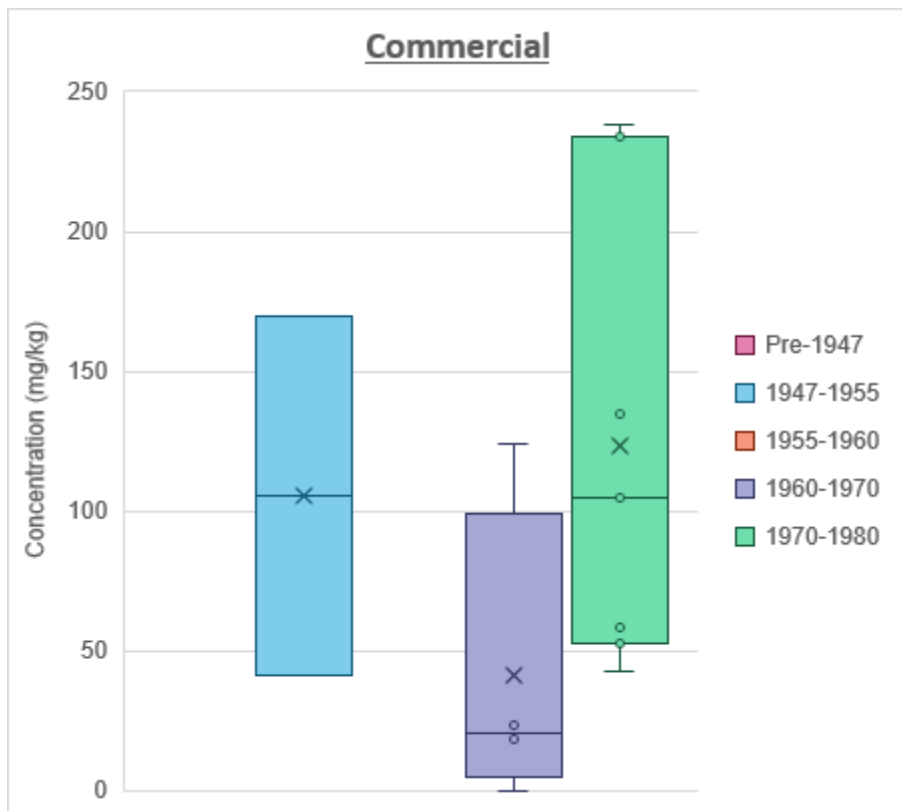


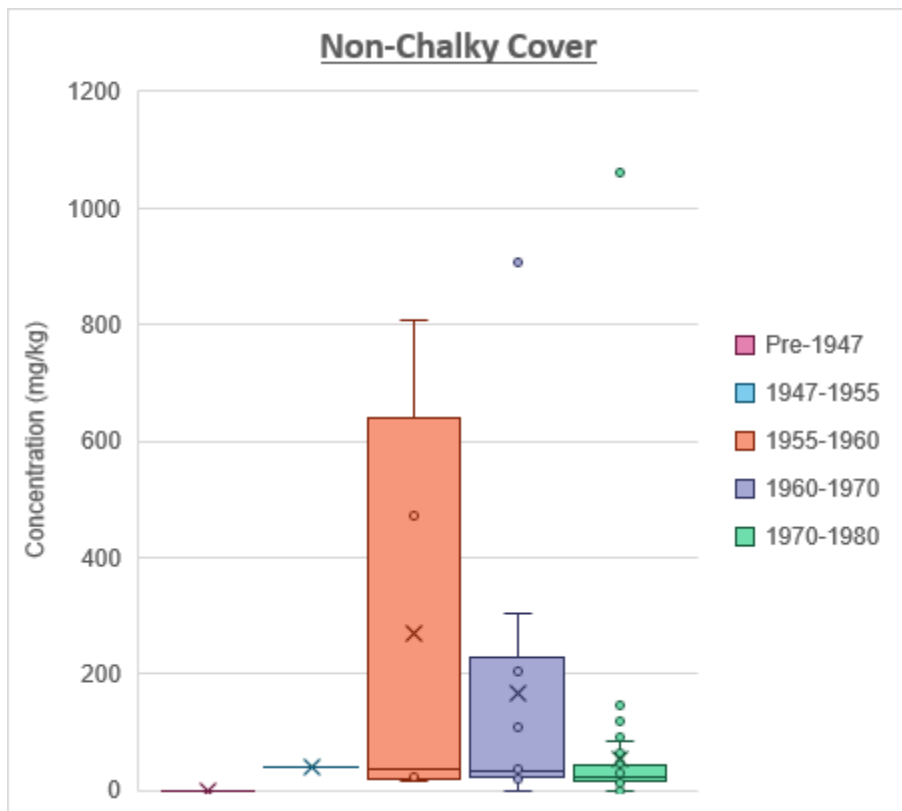
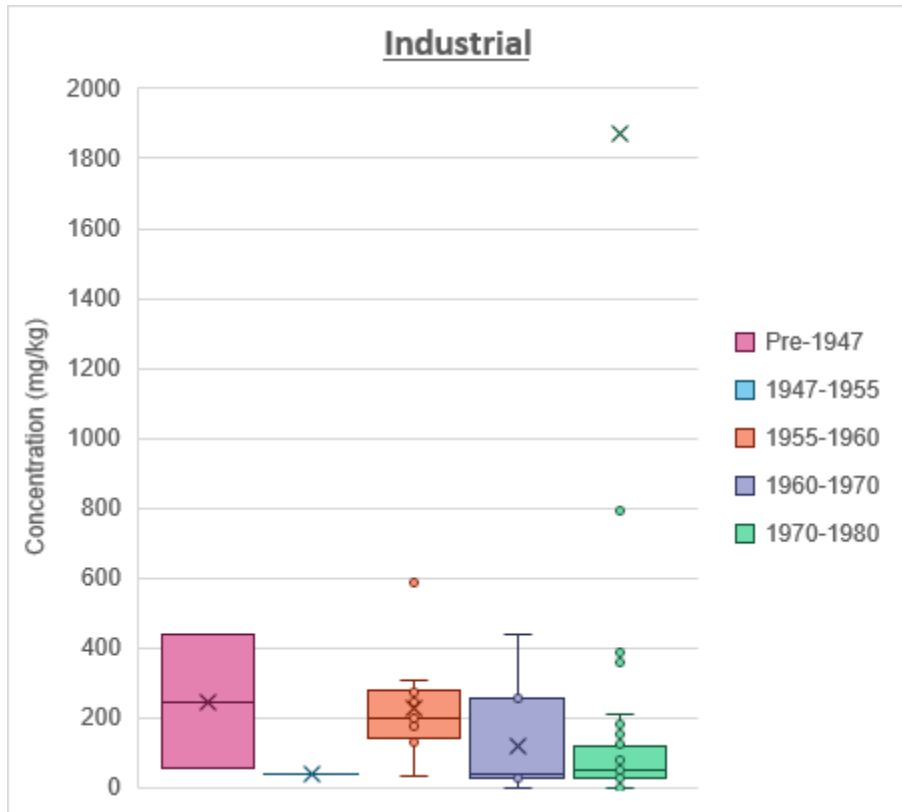
D19.2 Concentration by Waste Type

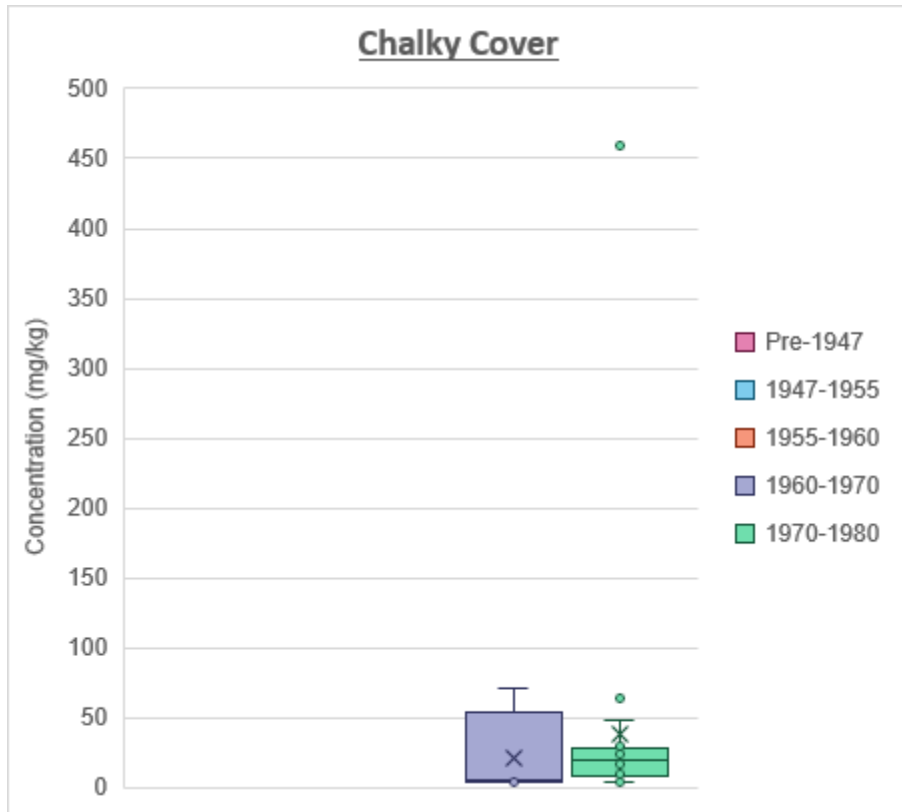


D19.3 Concentration by Waste Type and Era

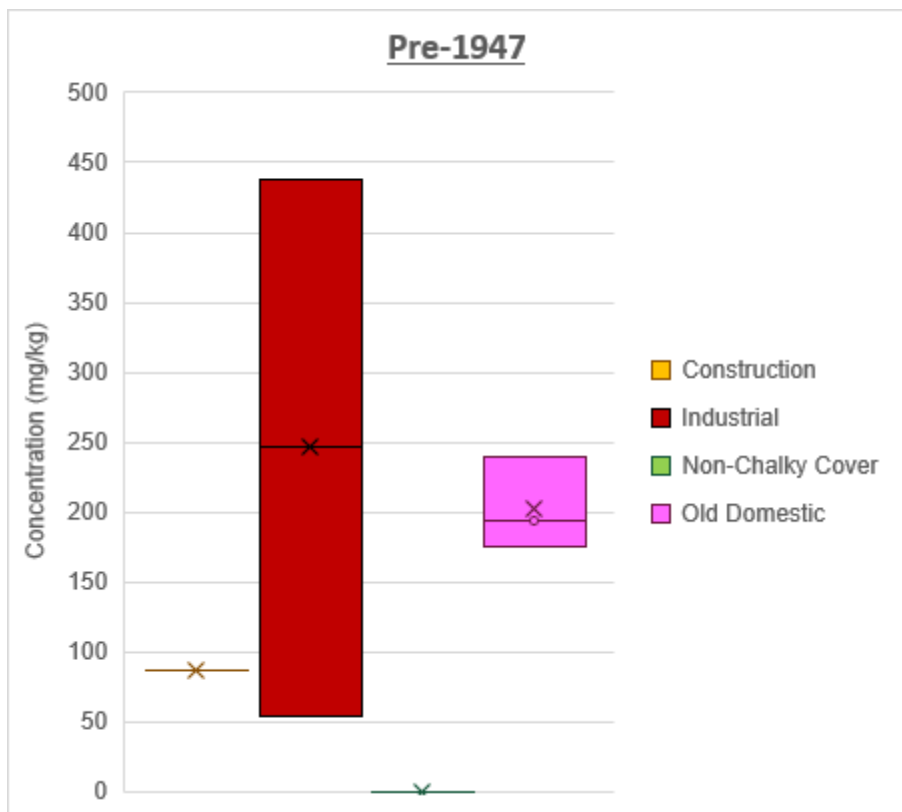


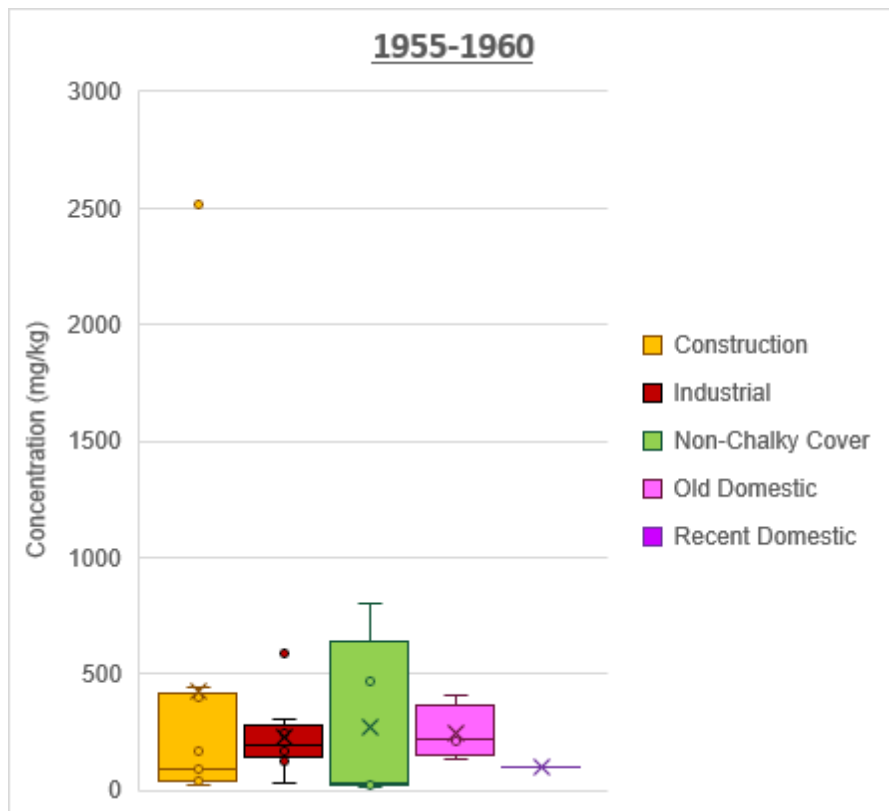
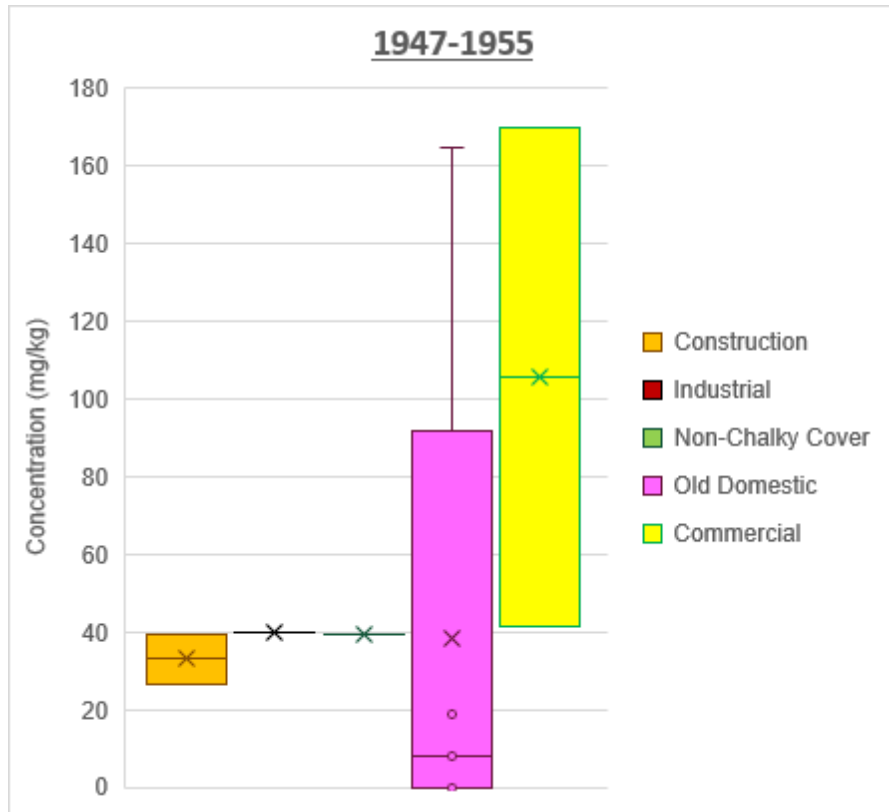


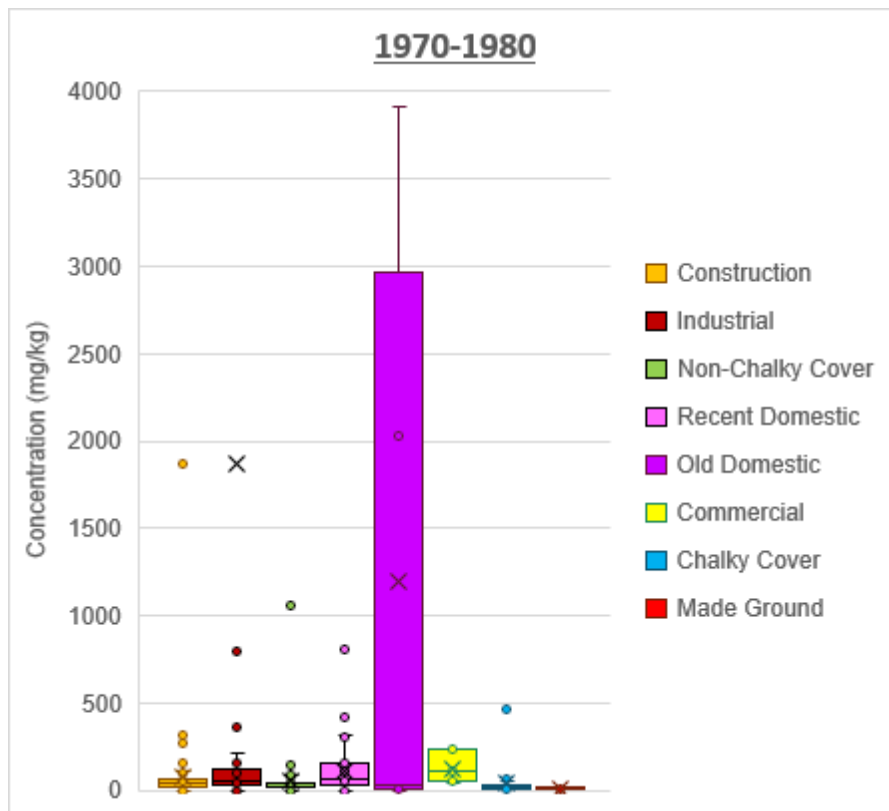
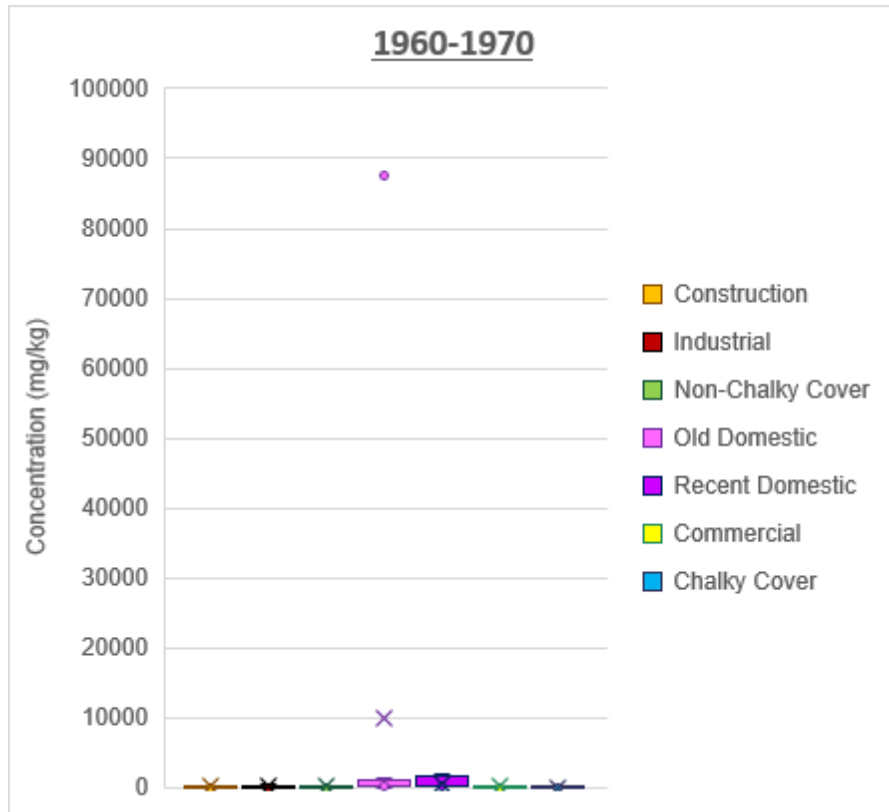




D19.4 Concentration by Era and Waste Type

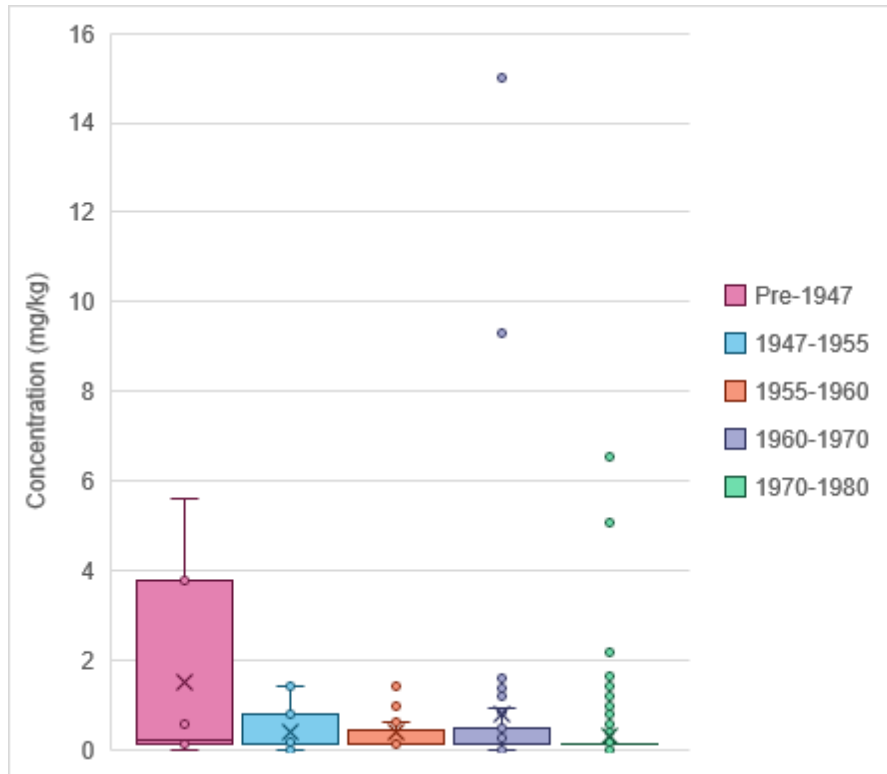




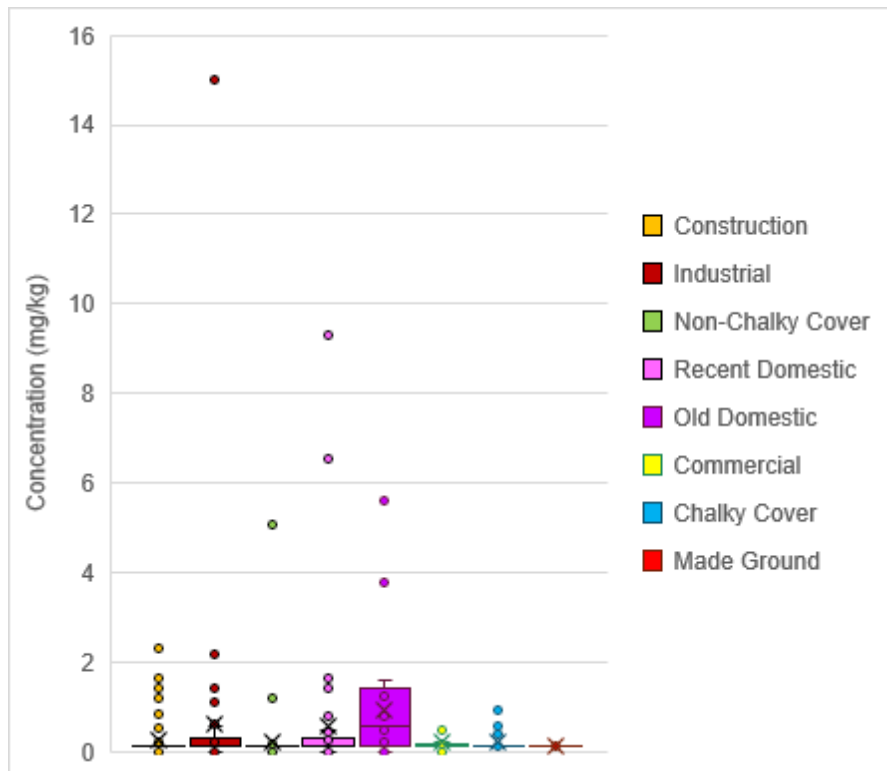


D20 Mercury

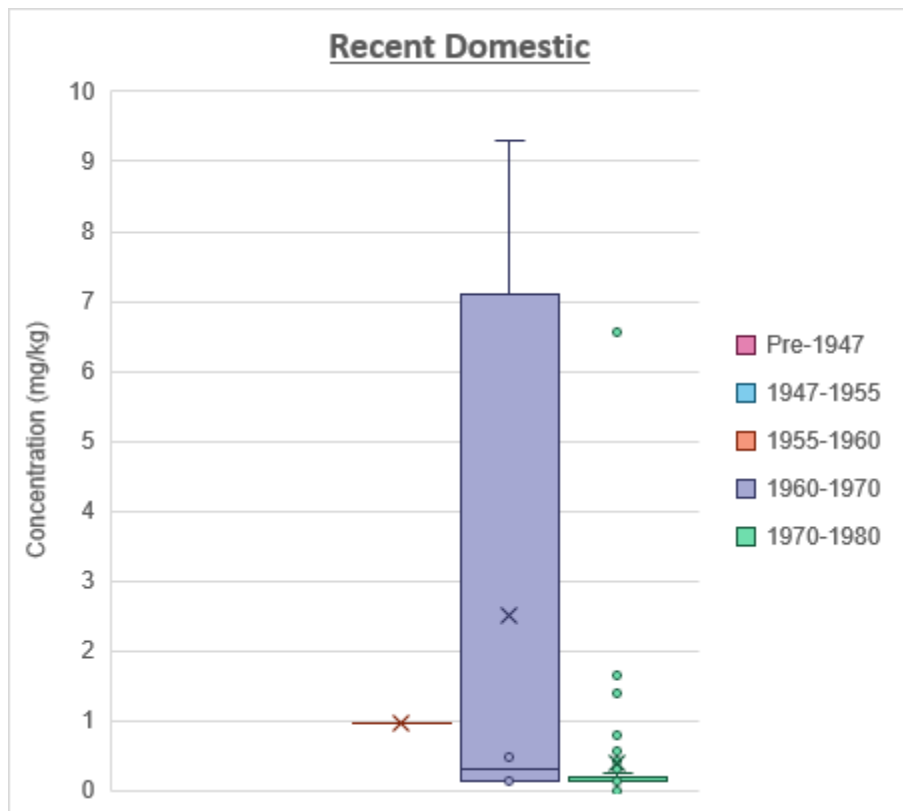
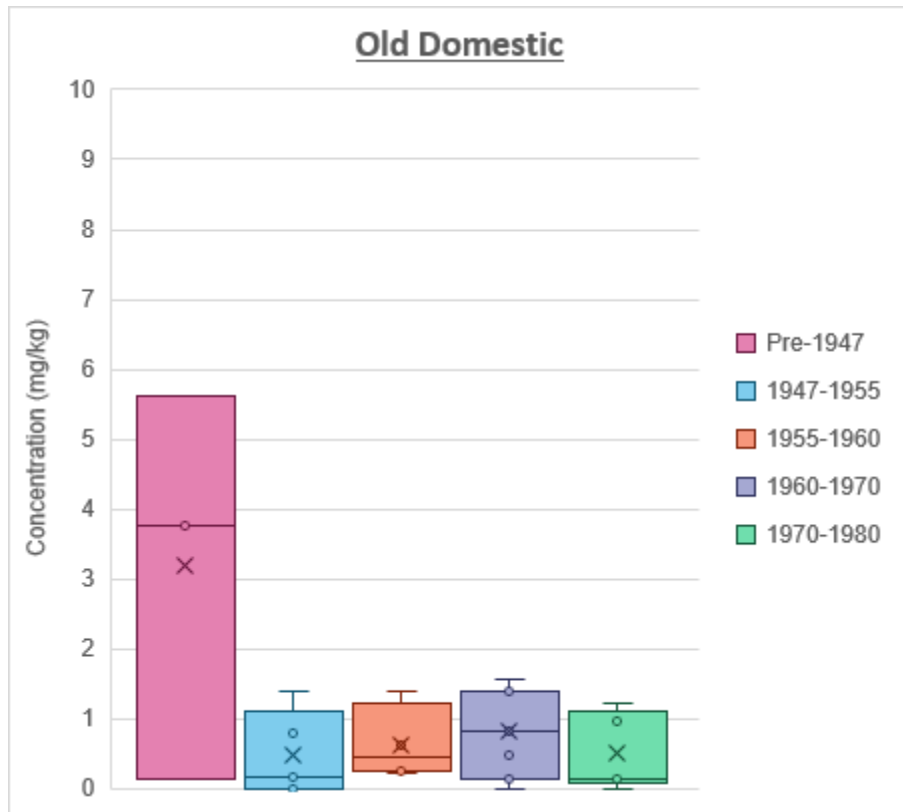
D20.1 Concentration by Era

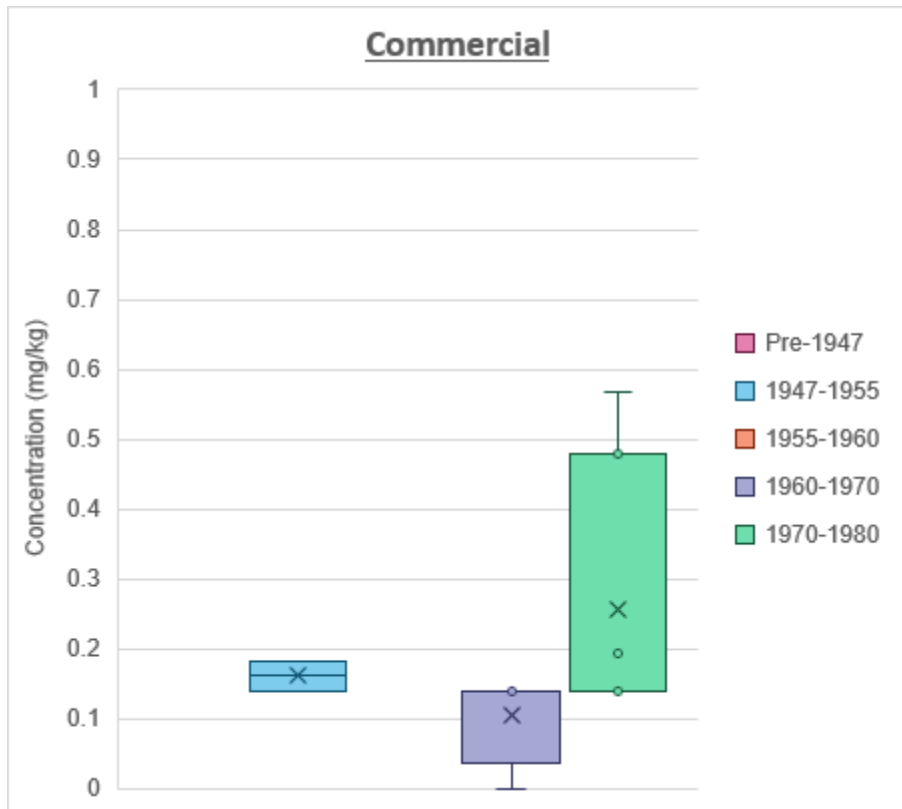
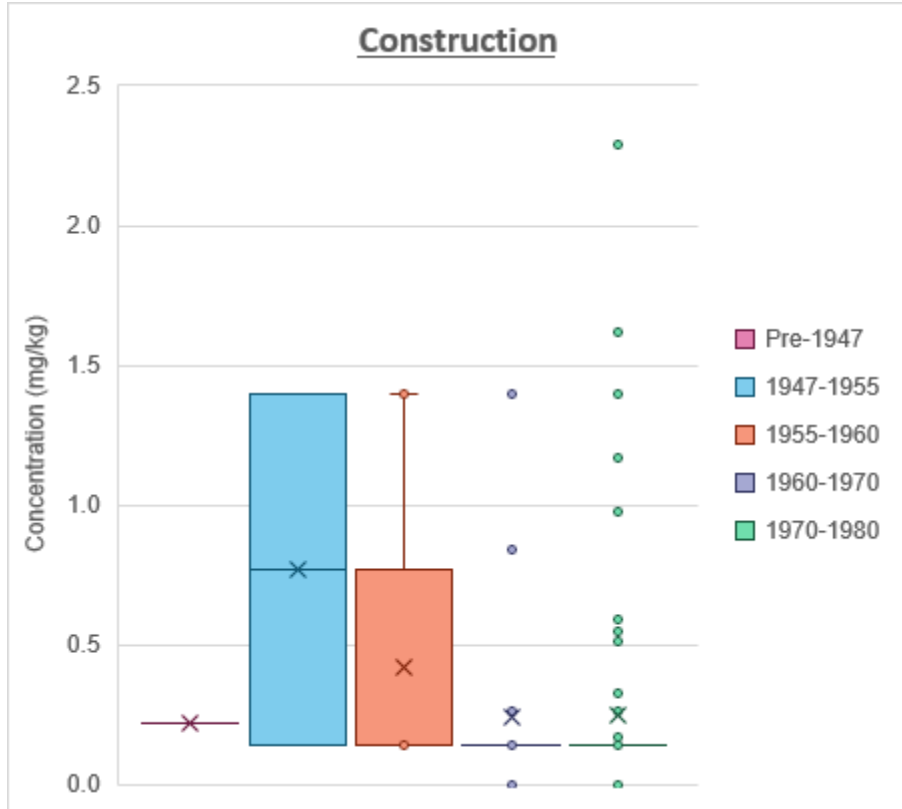


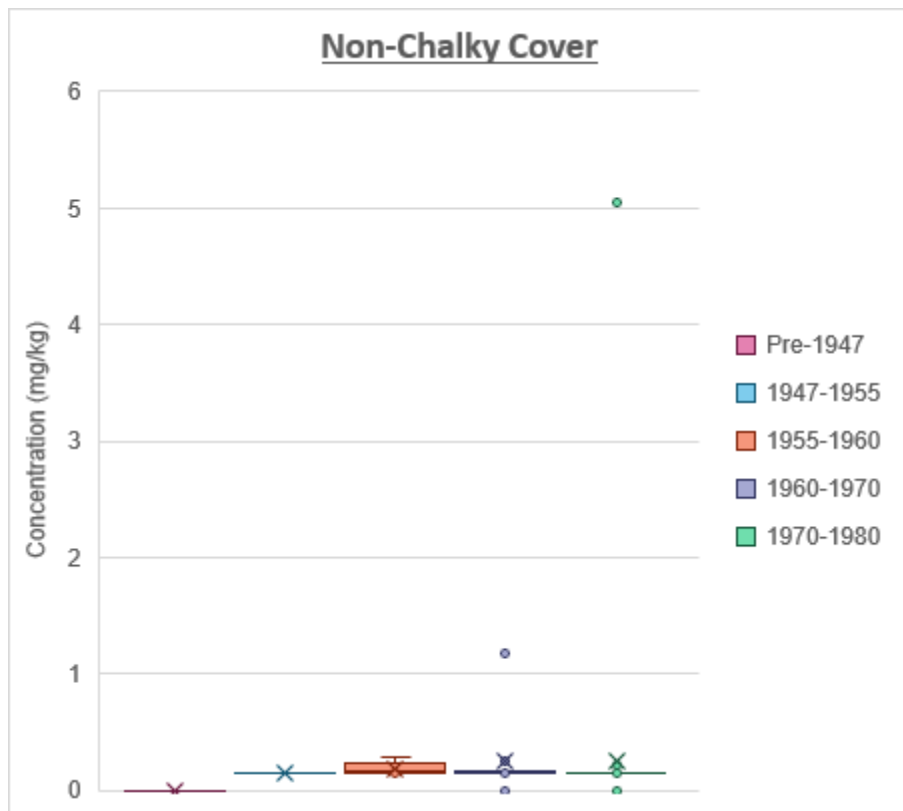
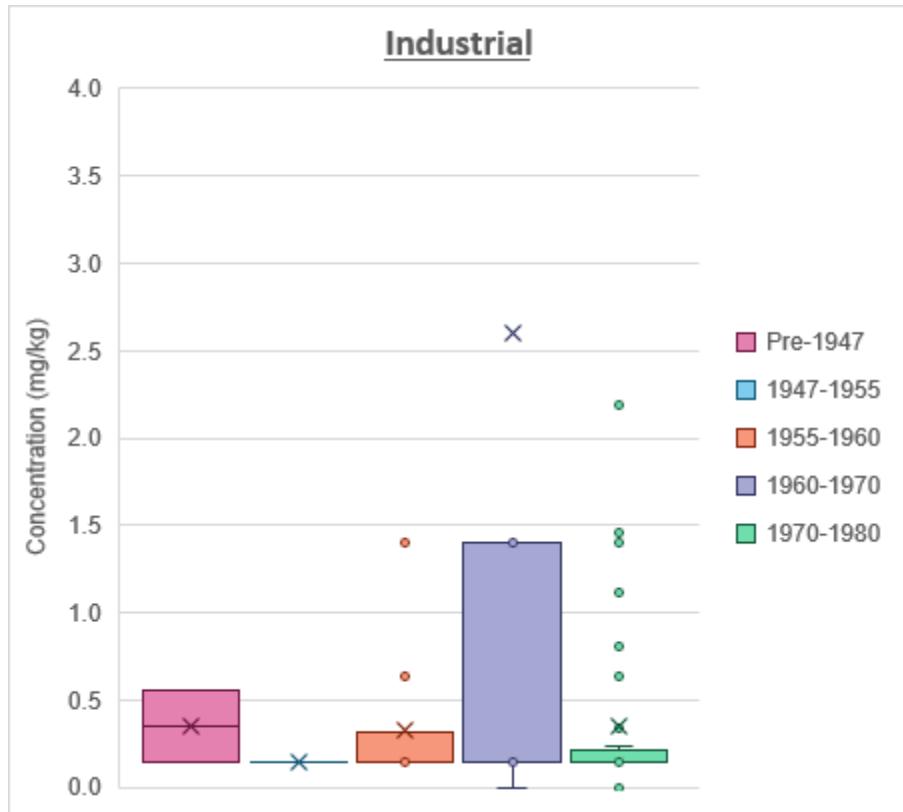
D20.2 Concentration by Waste Type

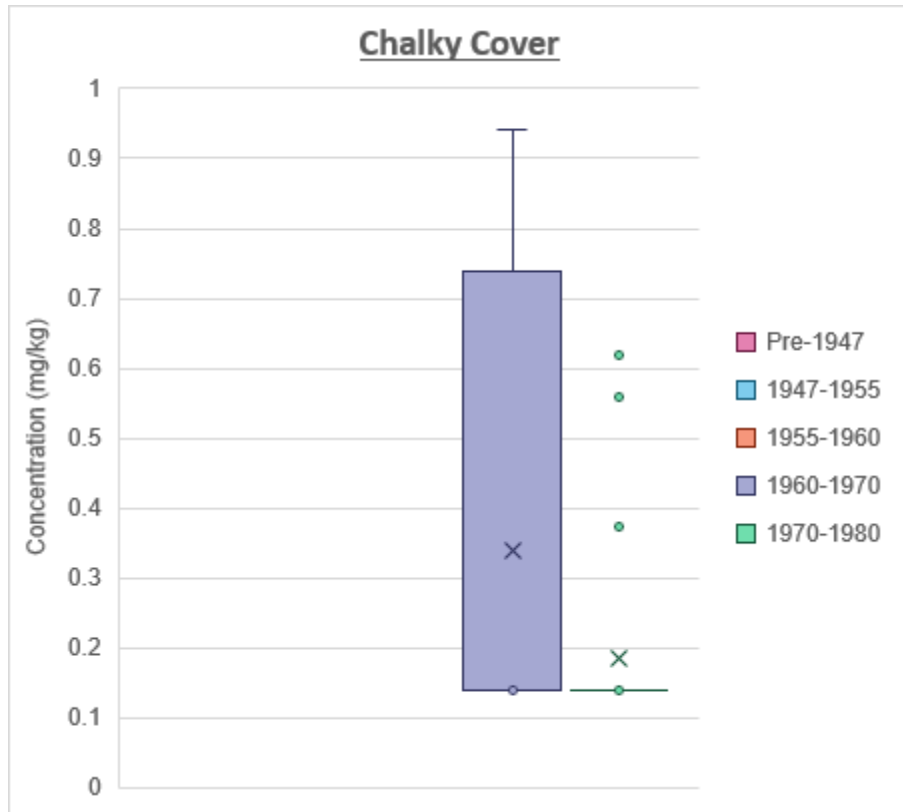


D20.3 Concentration by Waste Type and Era

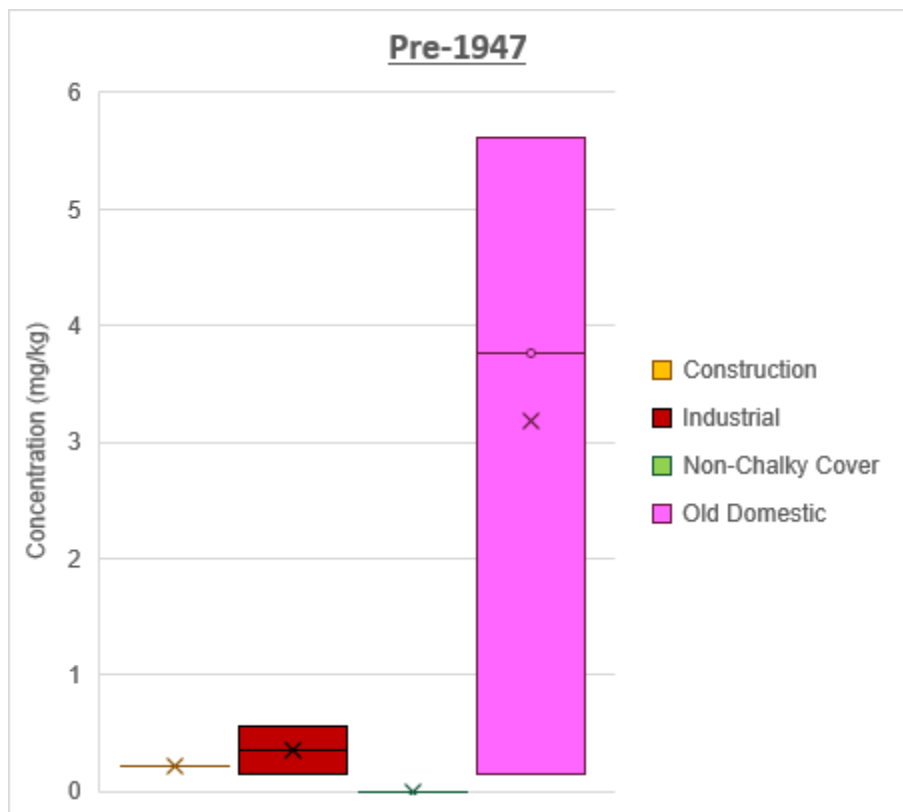


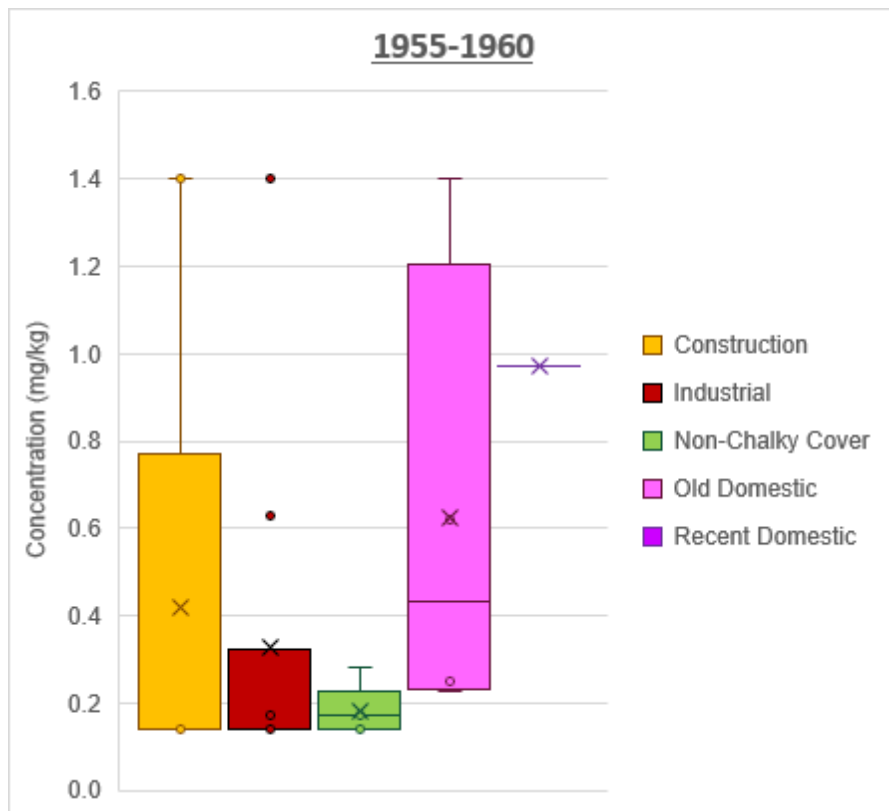
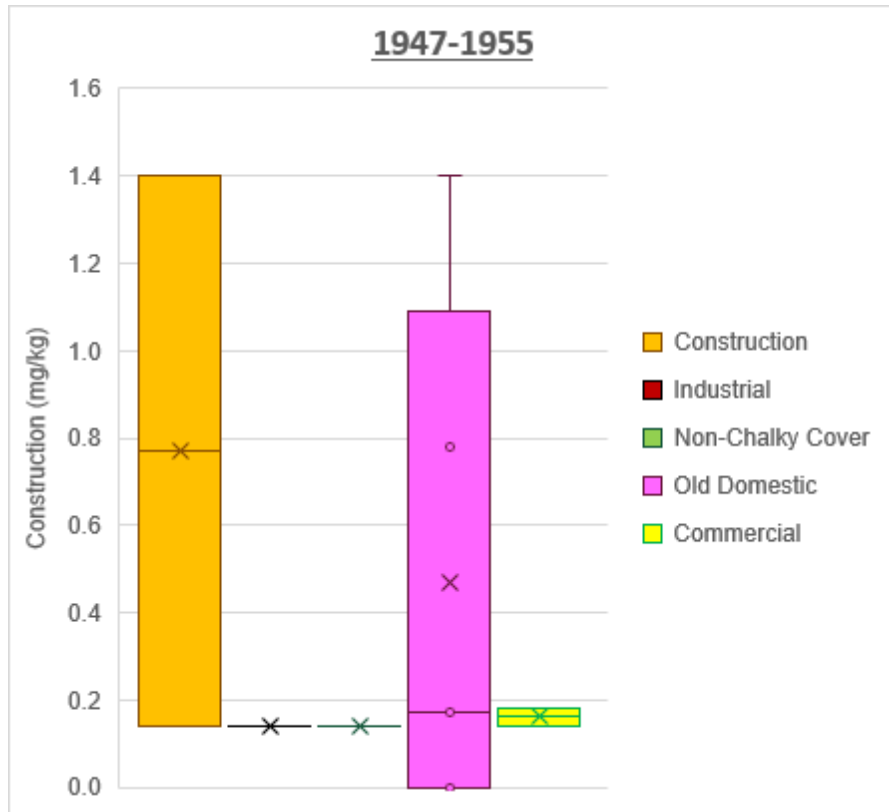


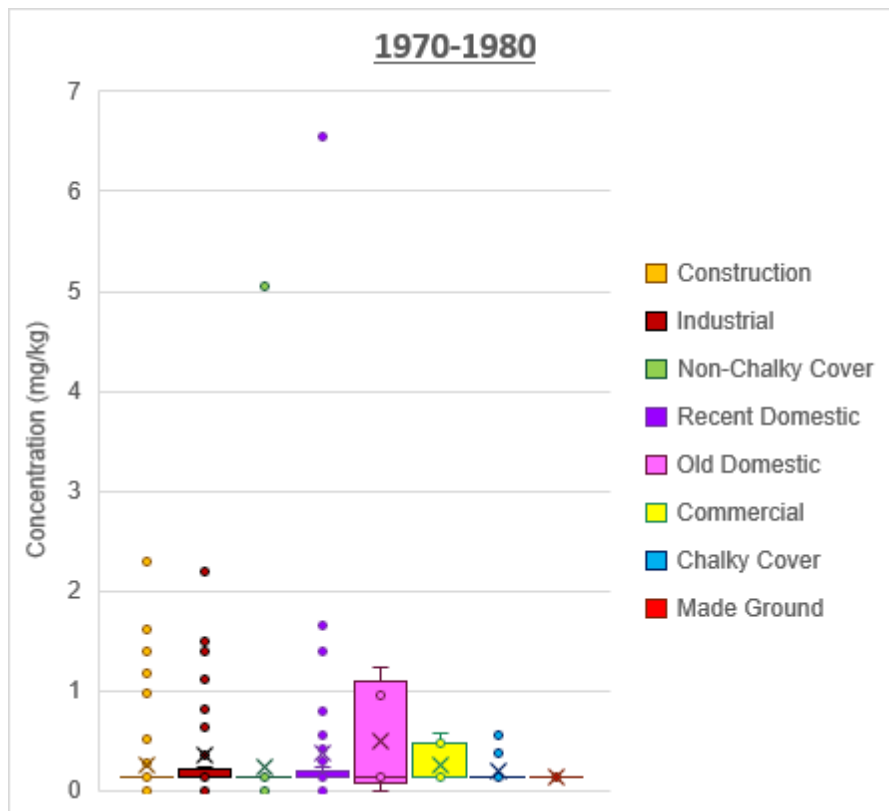
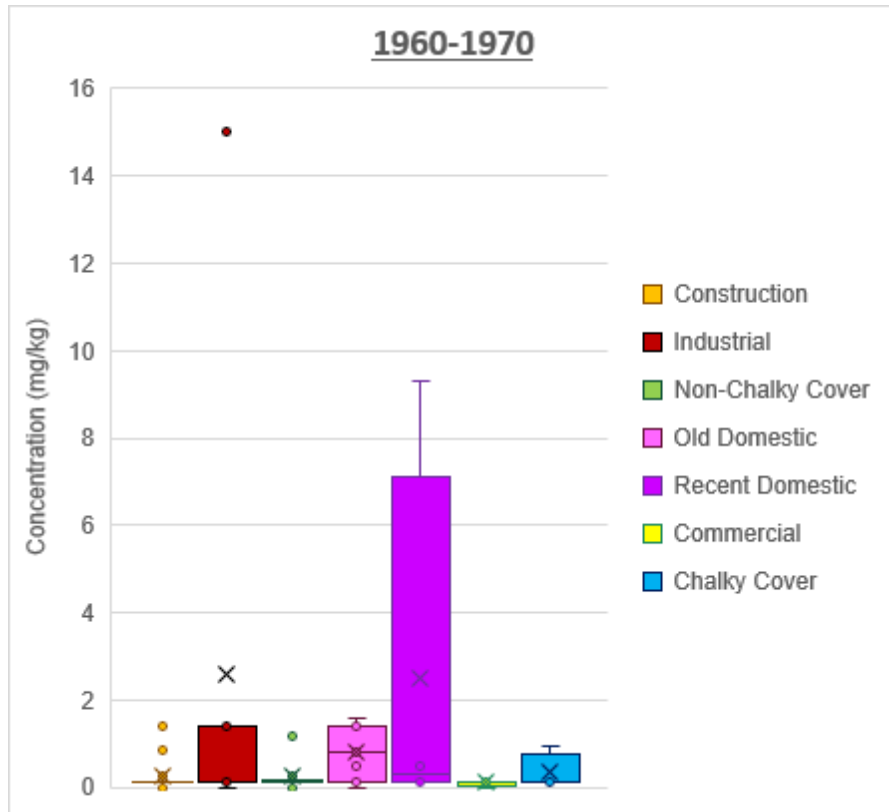




D20.4 Concentration by Era and Waste Type

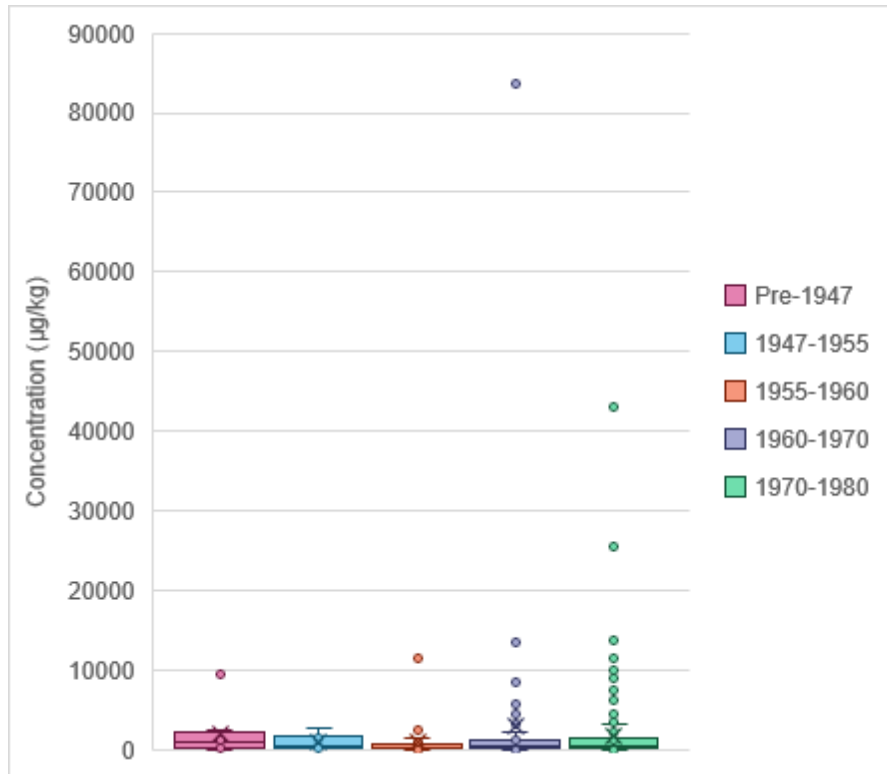




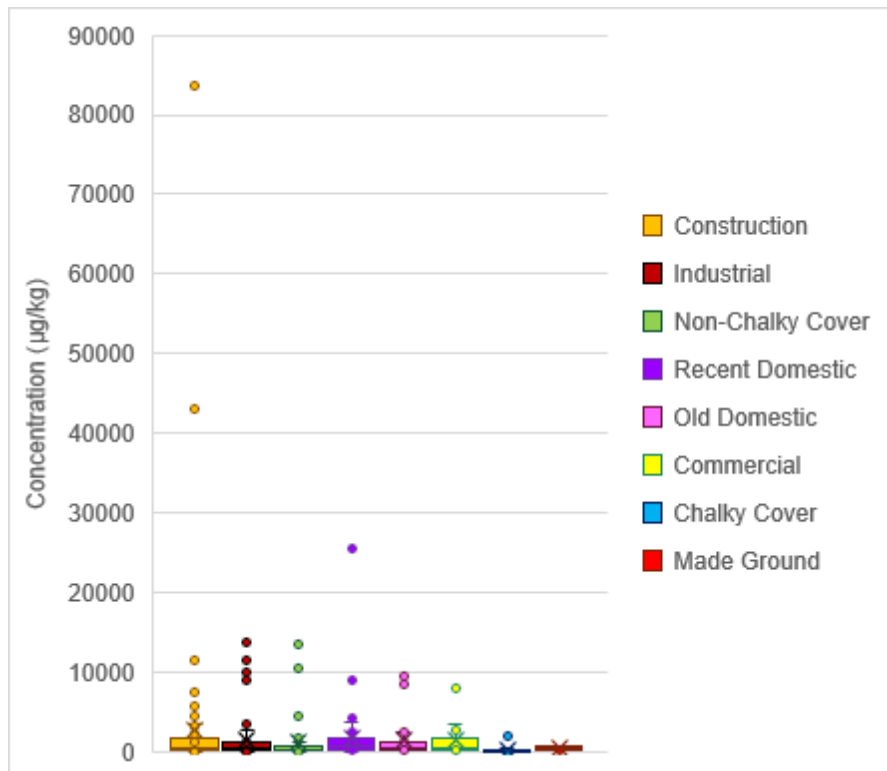


D21 Benzo(a)Pyrene

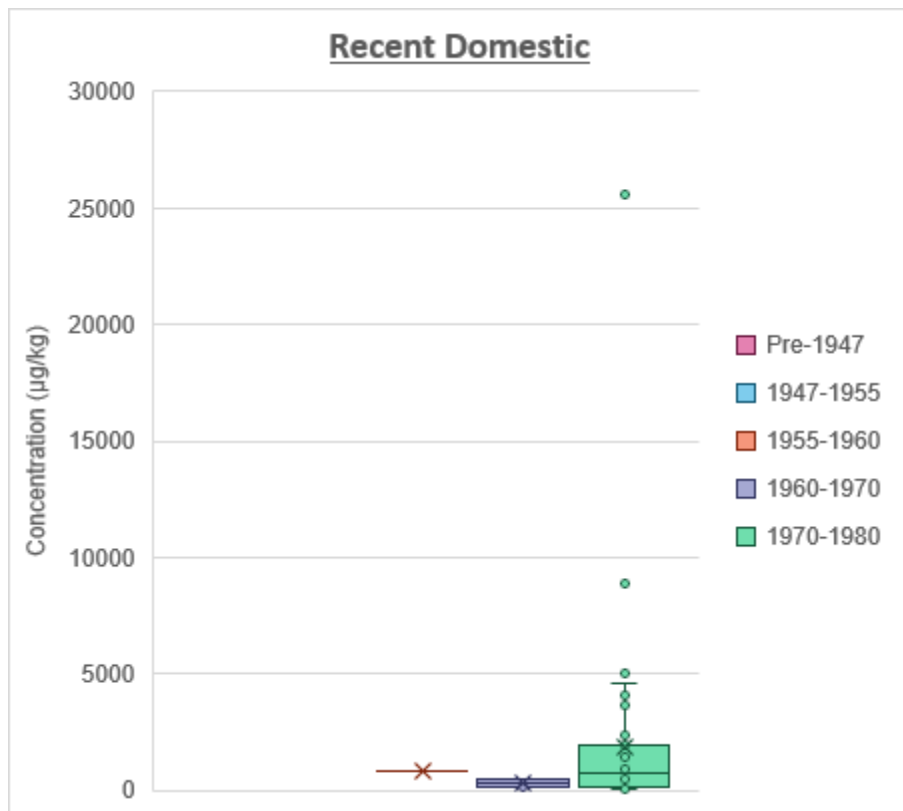
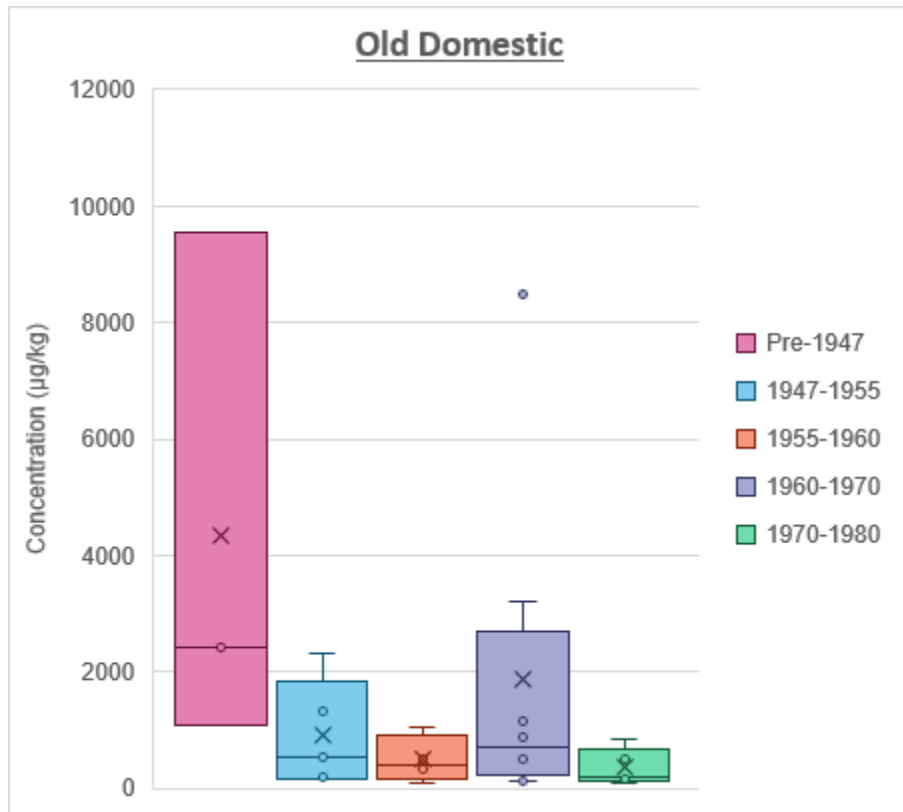
D21.1 Concentration by Era

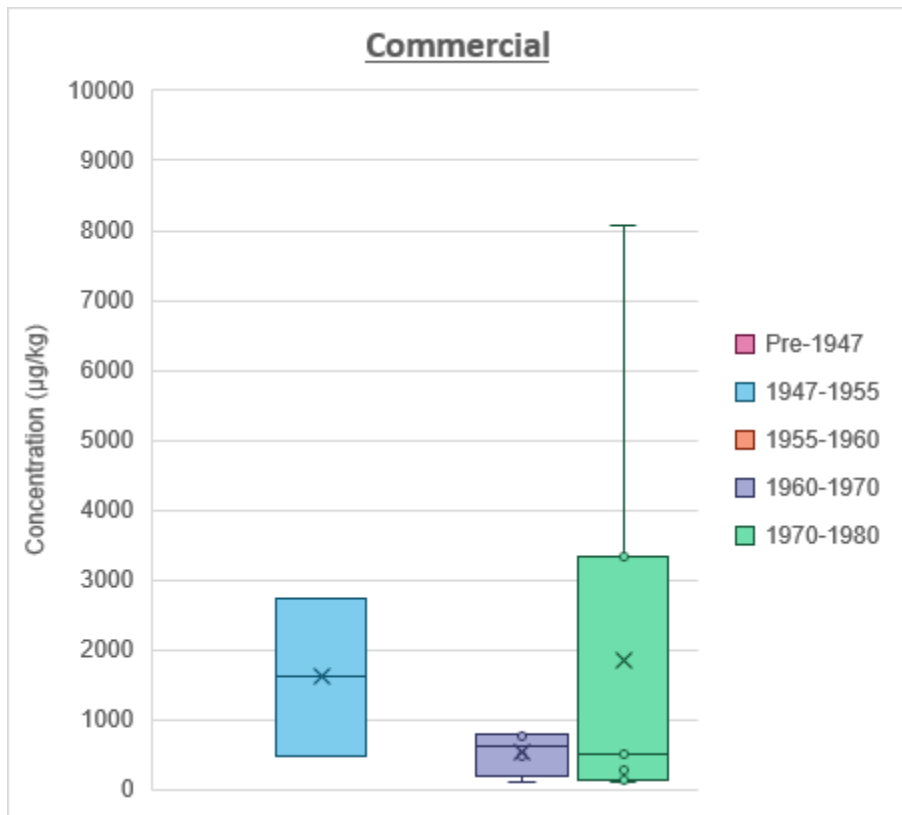
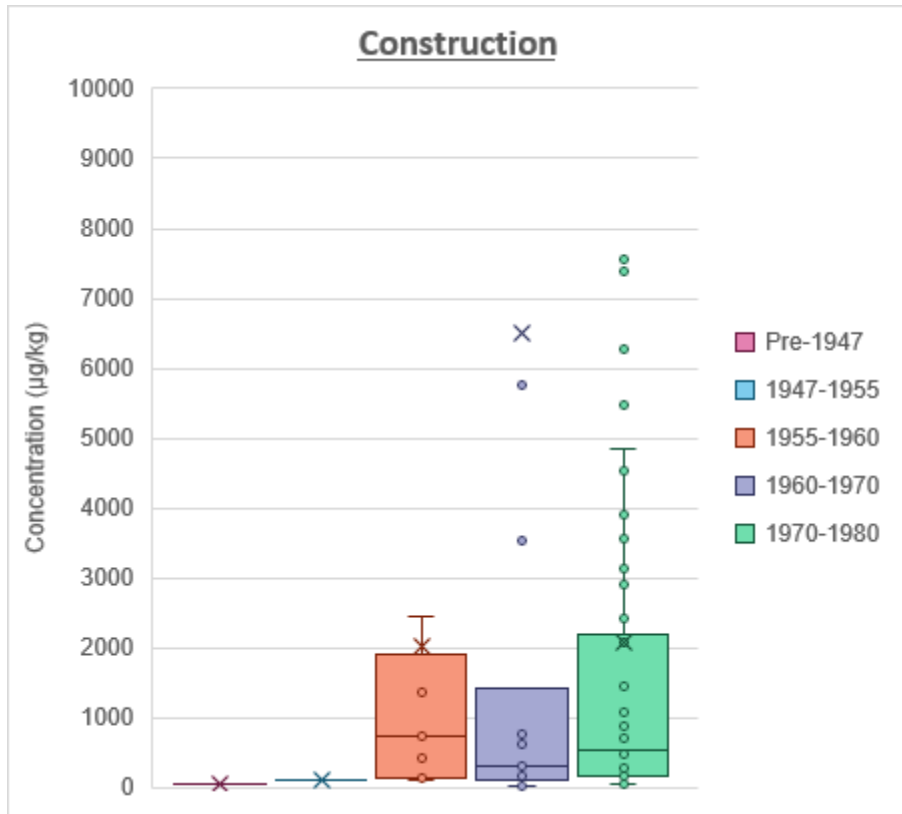


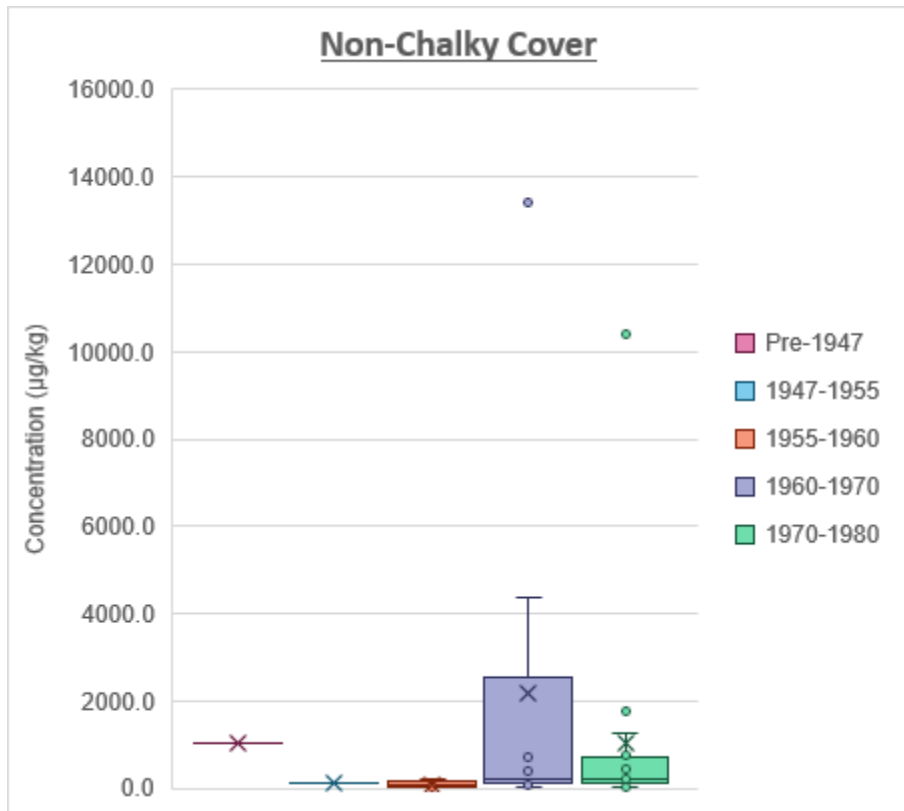
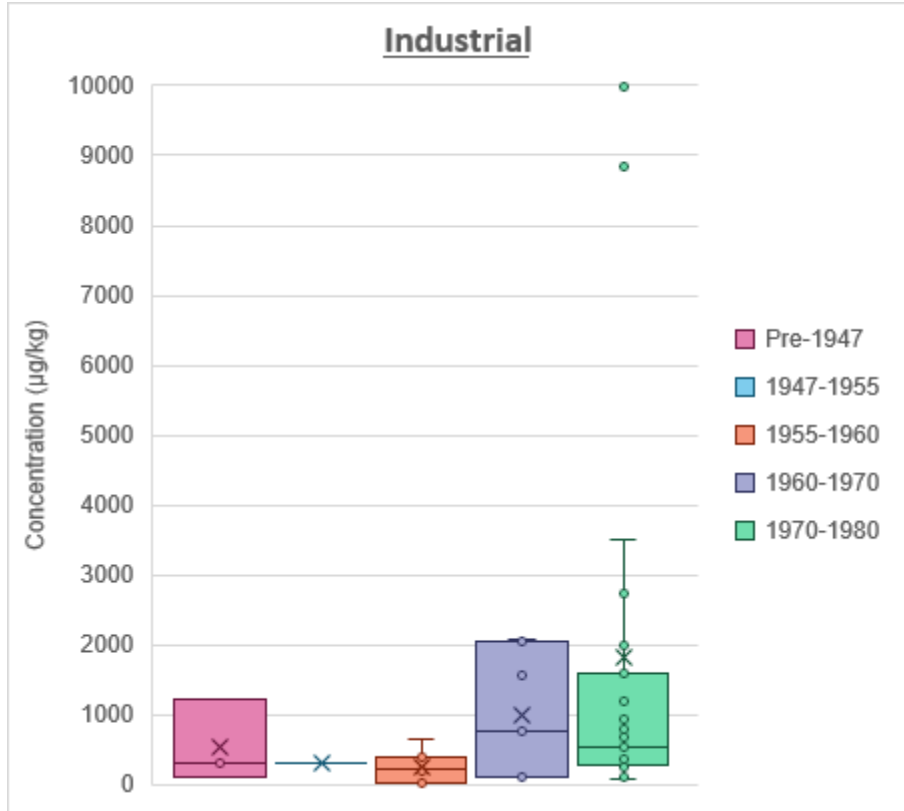
D21.2 Concentration by Waste Type

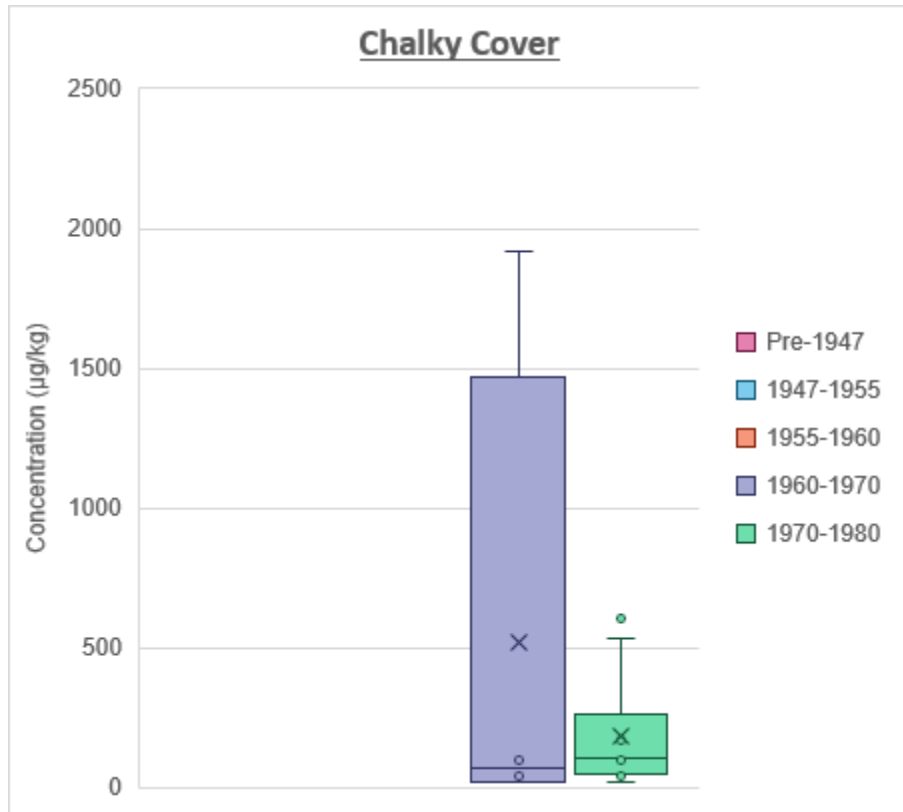


D21.3 Concentration by Waste Type and Era

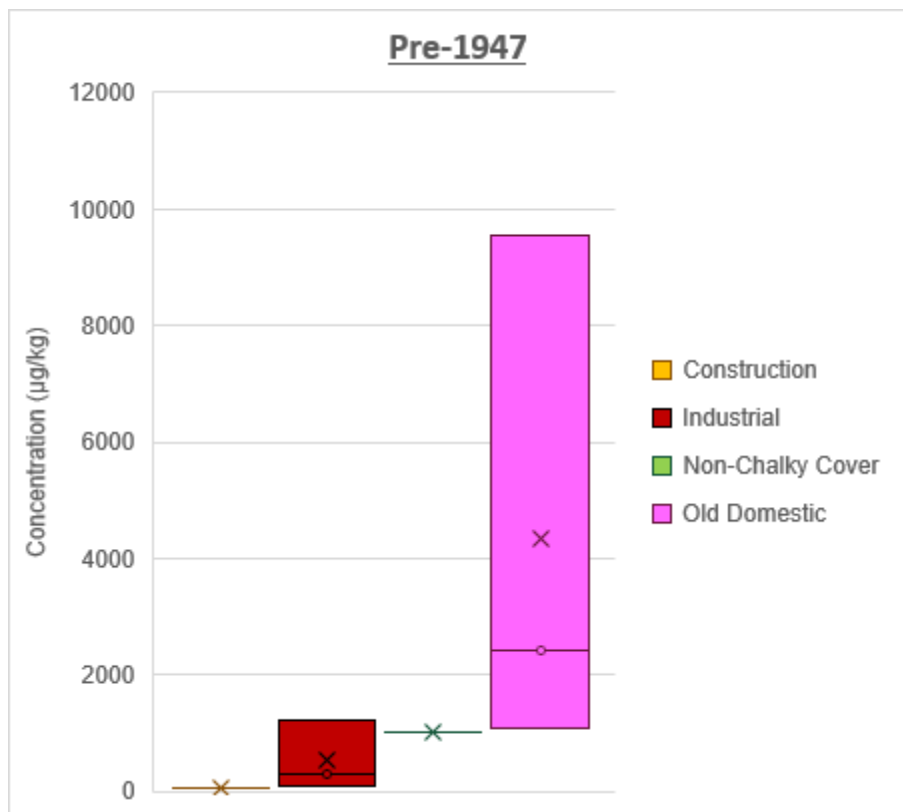


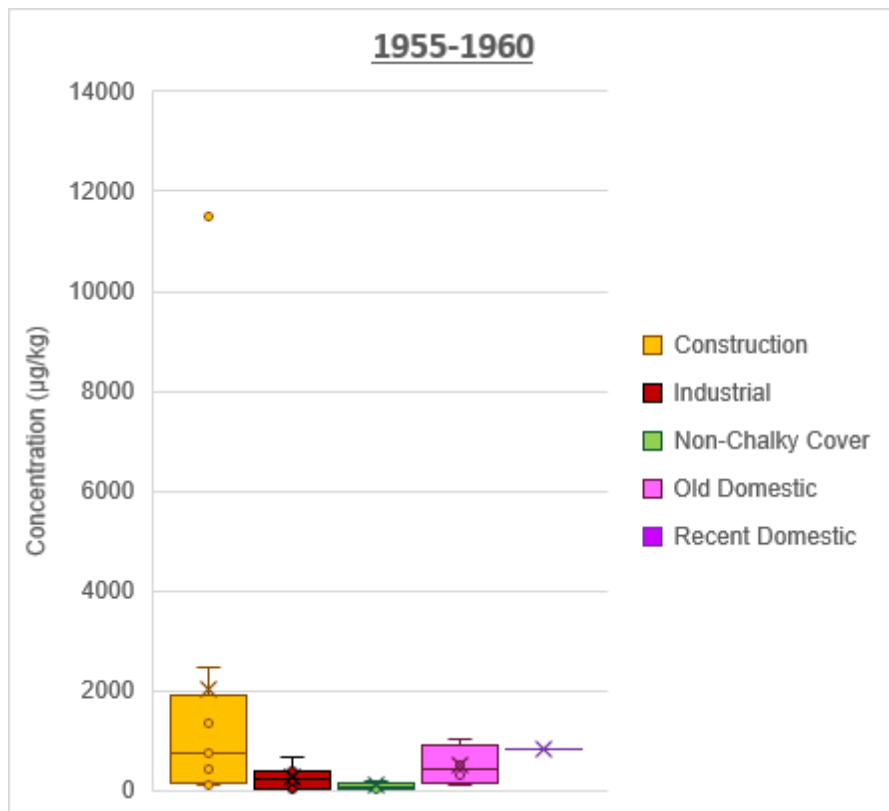
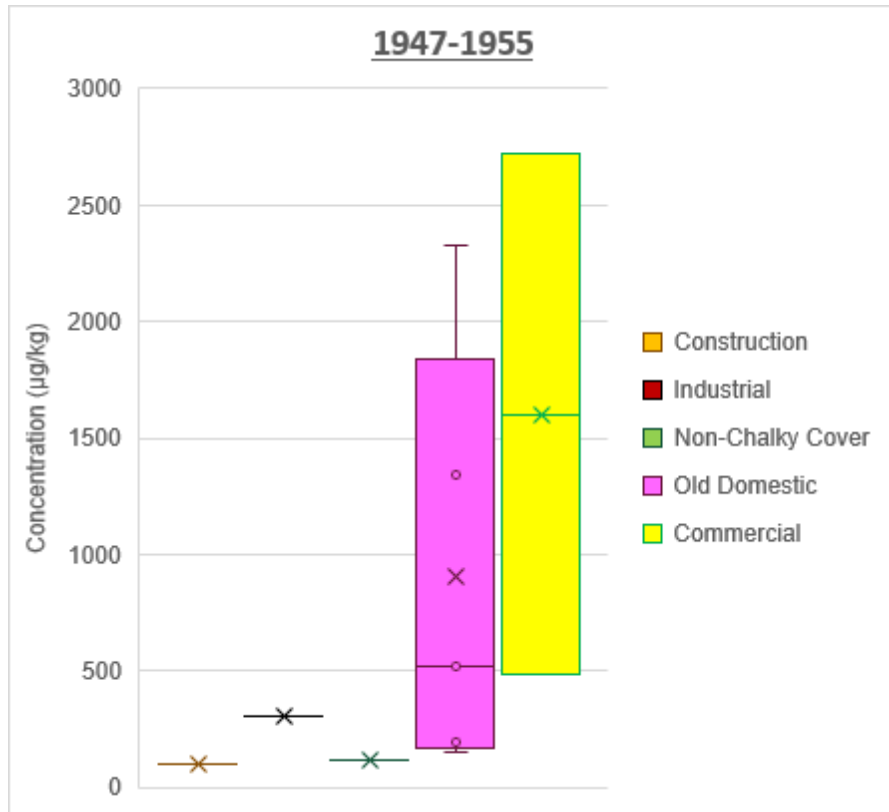


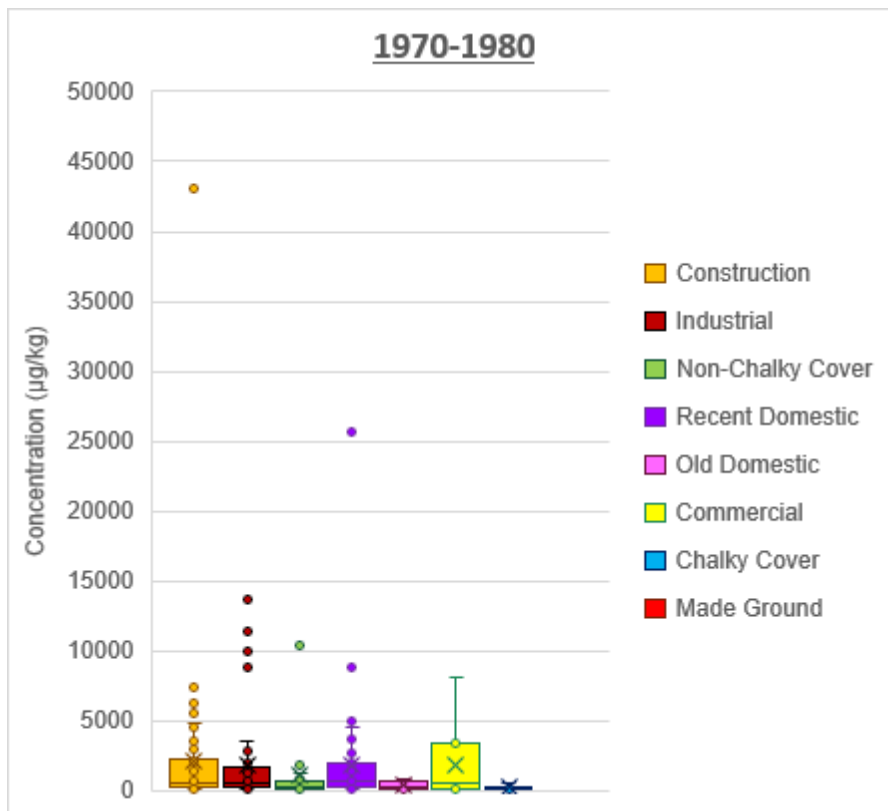
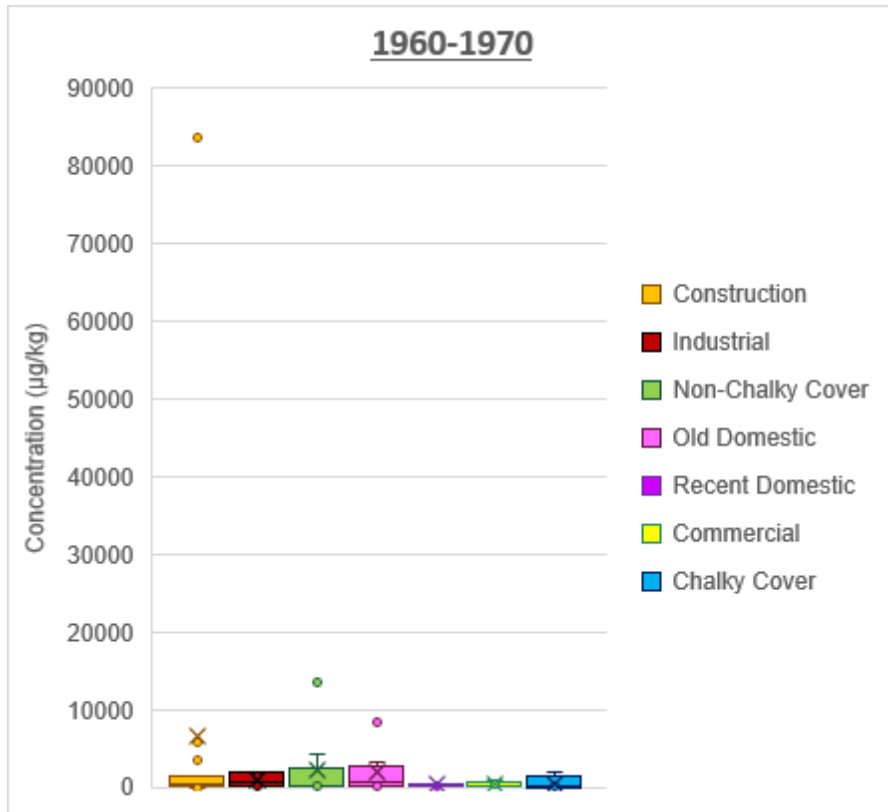




D21.4 Concentration by Era and Waste Type

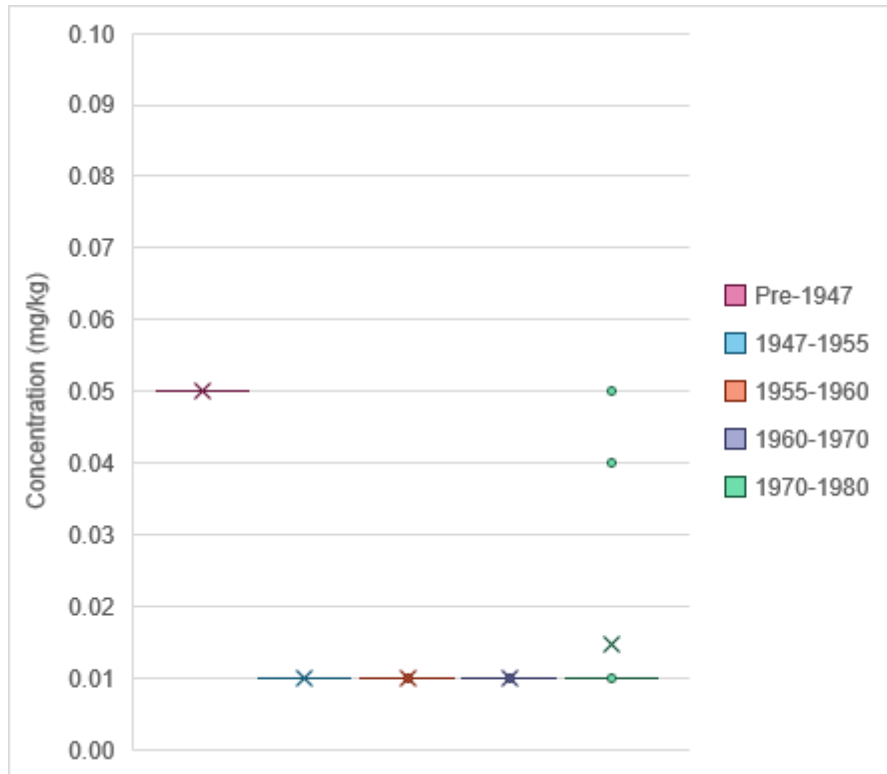




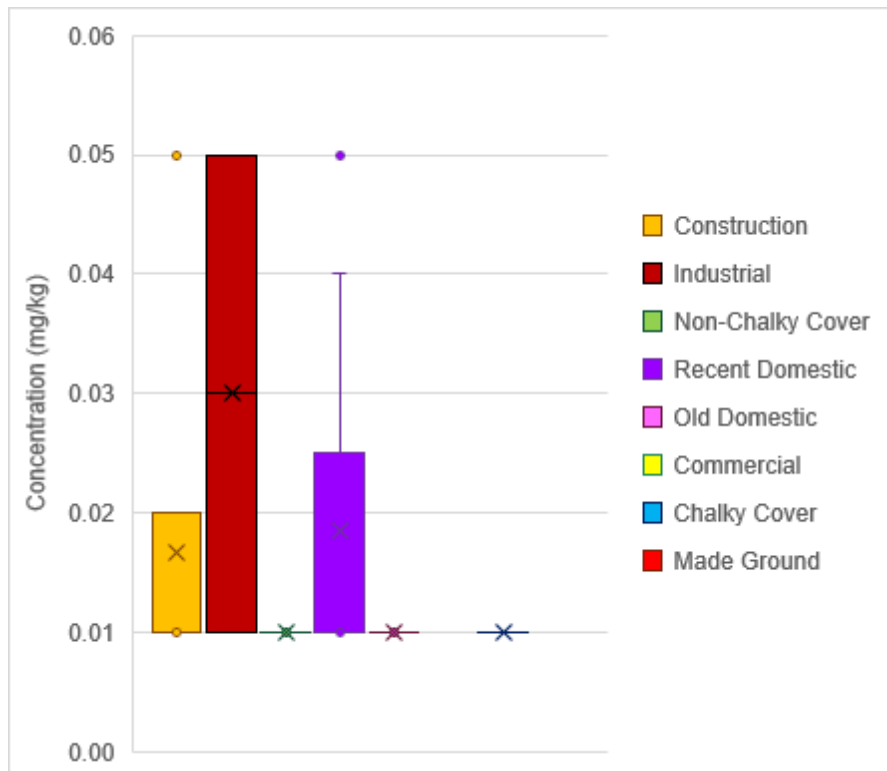


D22 Benzene

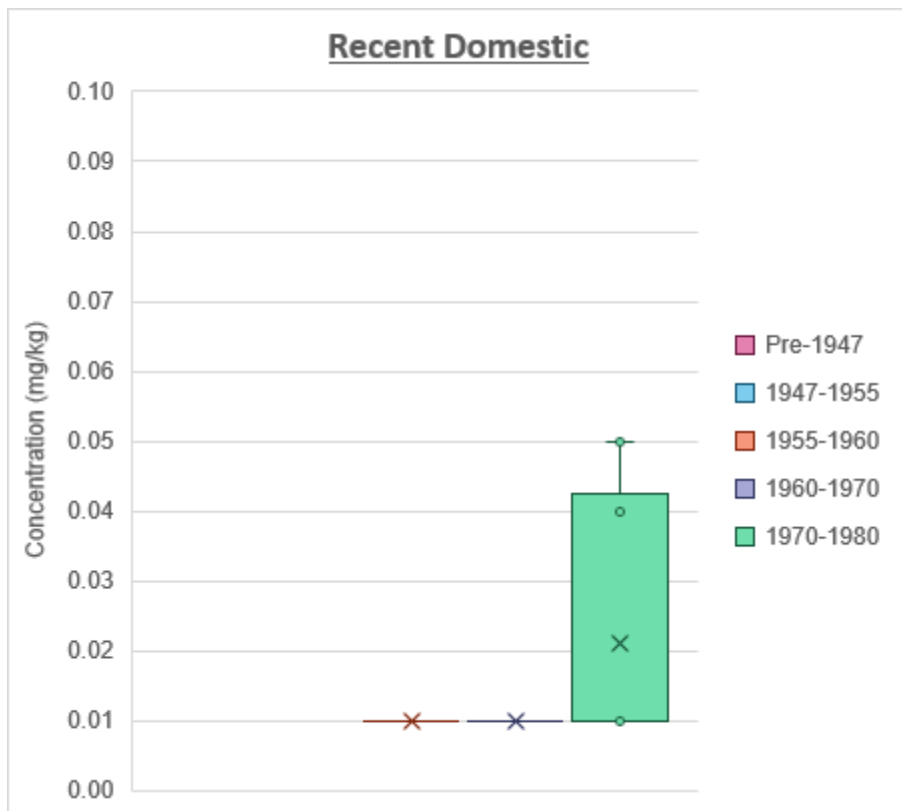
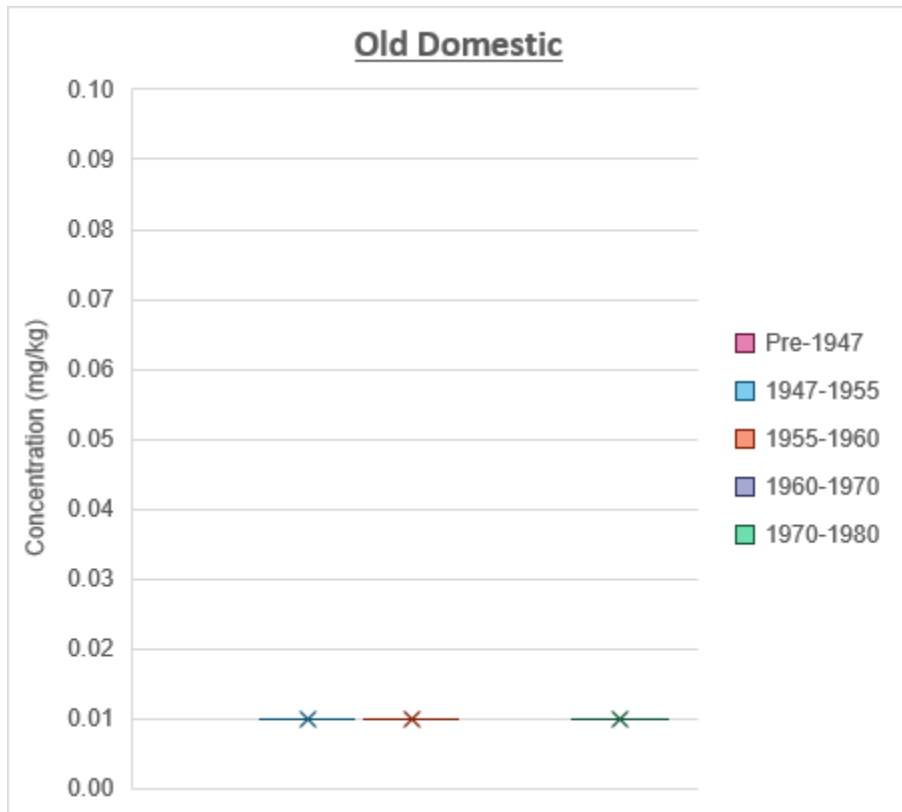
D22.1 Concentration by Era

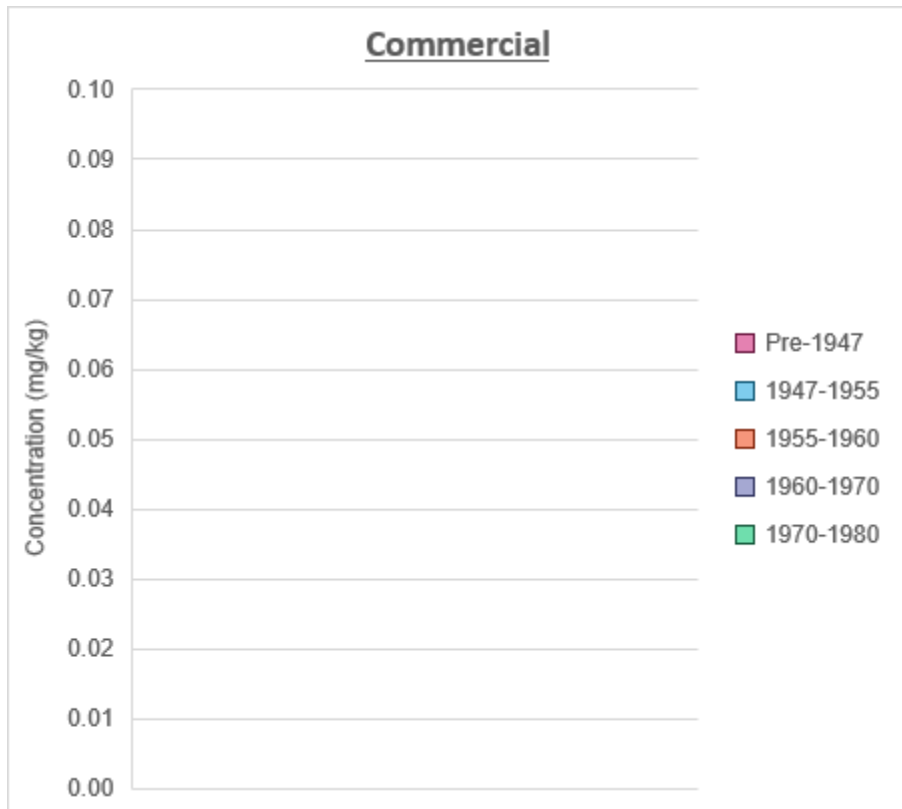
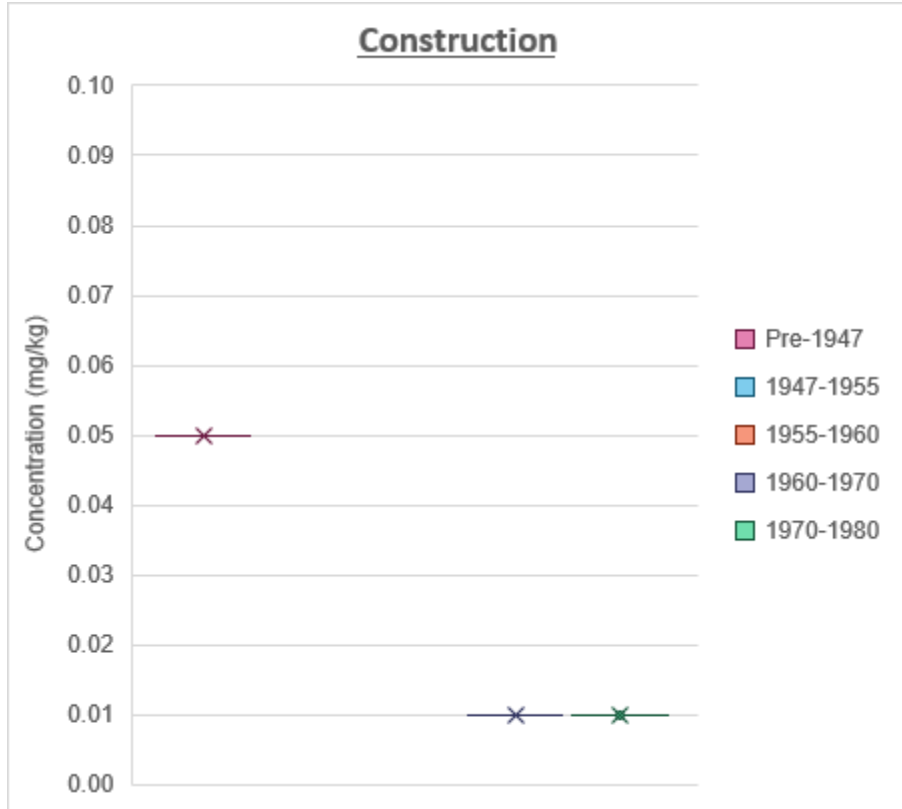


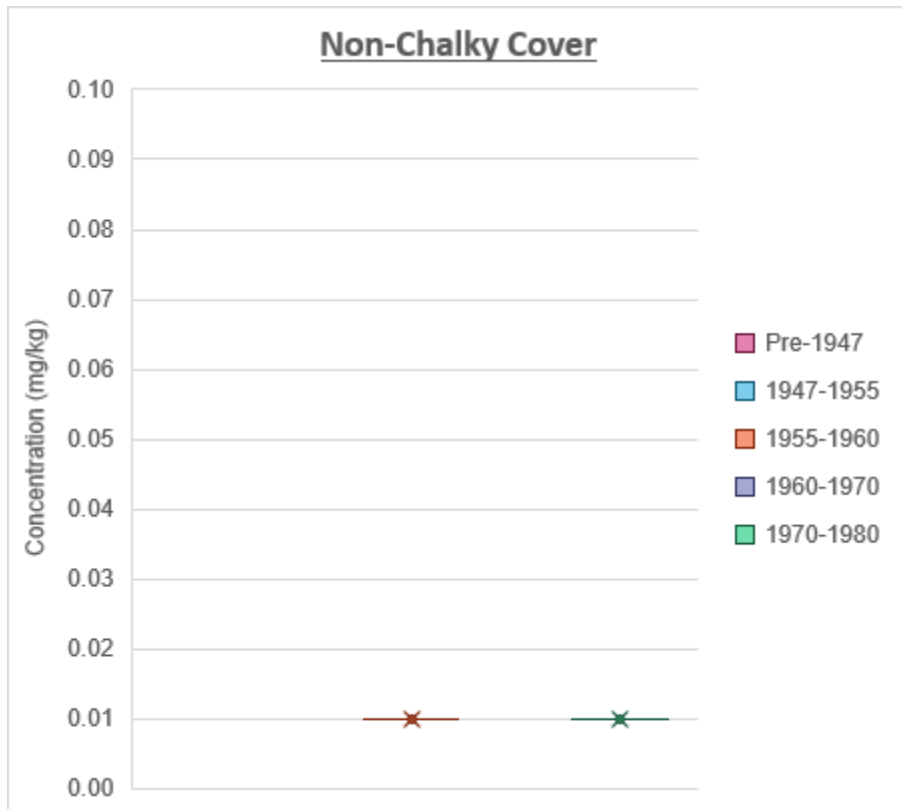
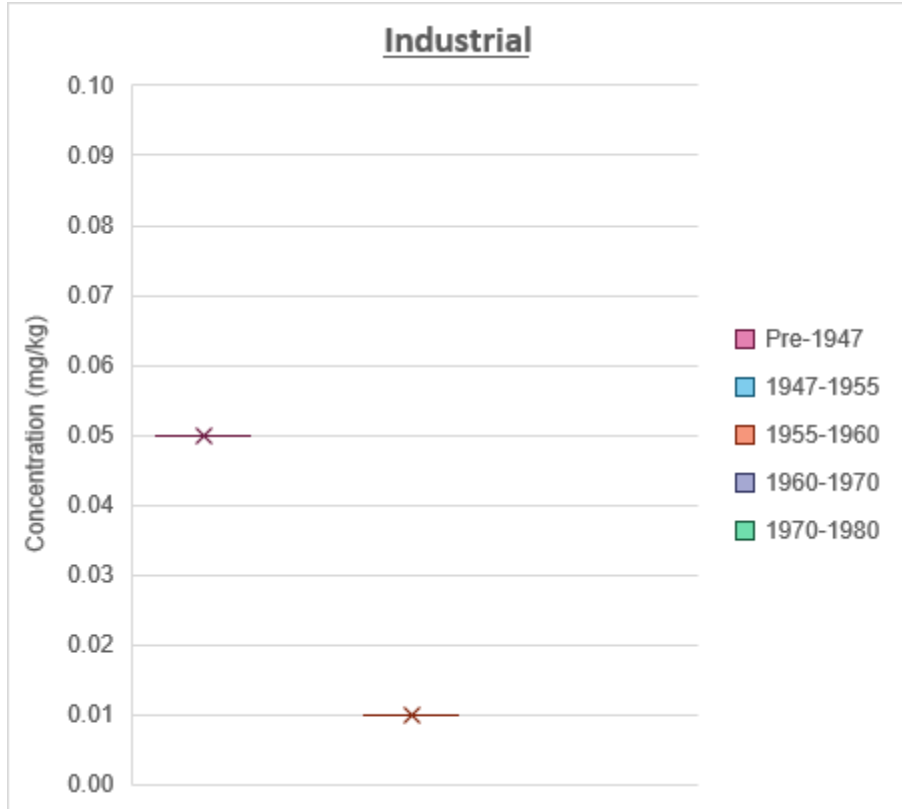
D22.2 Concentration by Waste Type

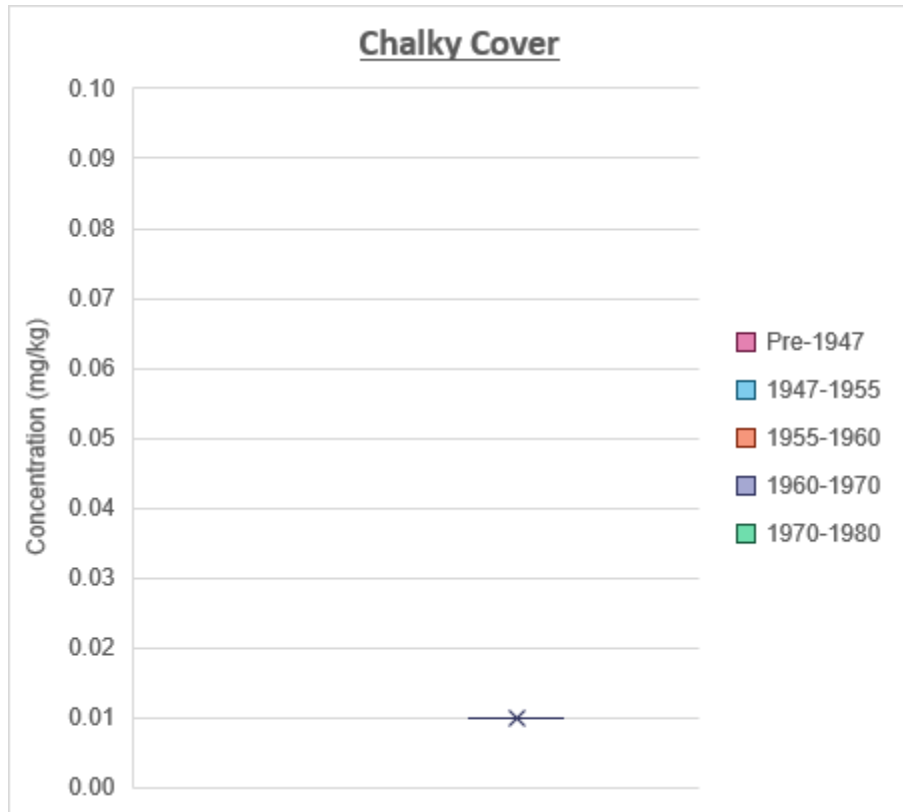


D22.3 Concentration by Waste Type and Era



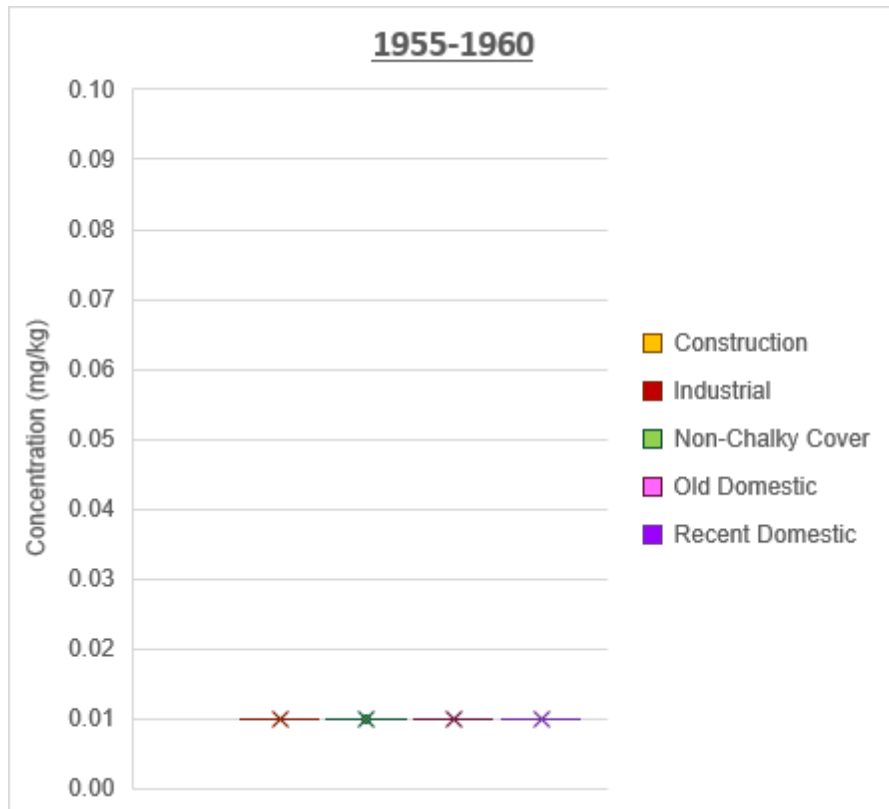


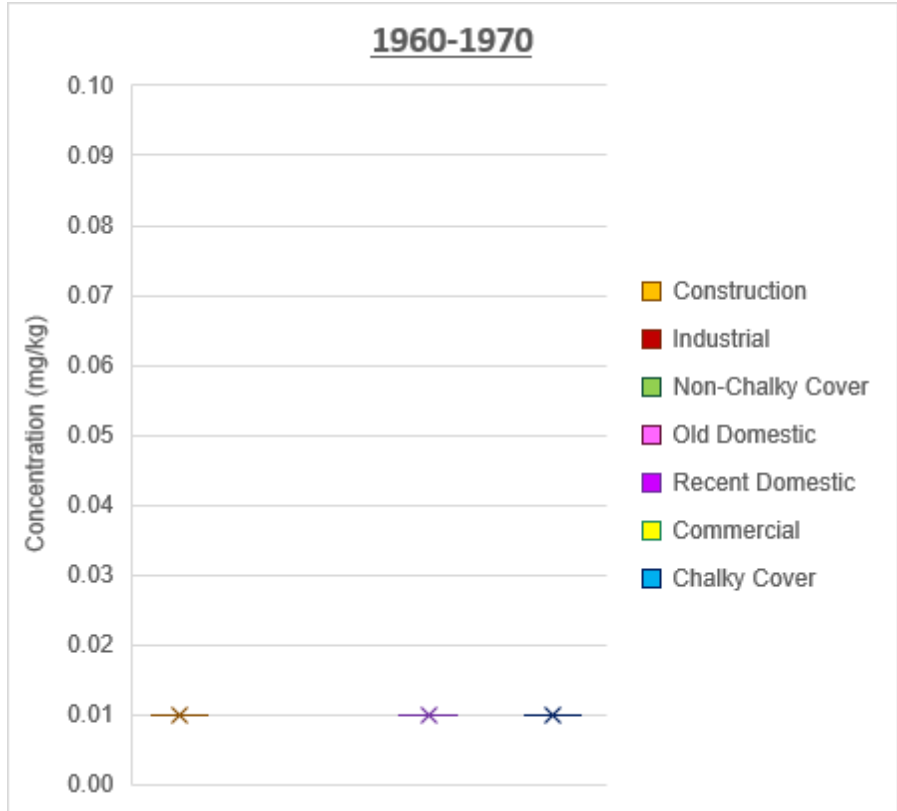




D22.4 Concentration by Era and Waste Type

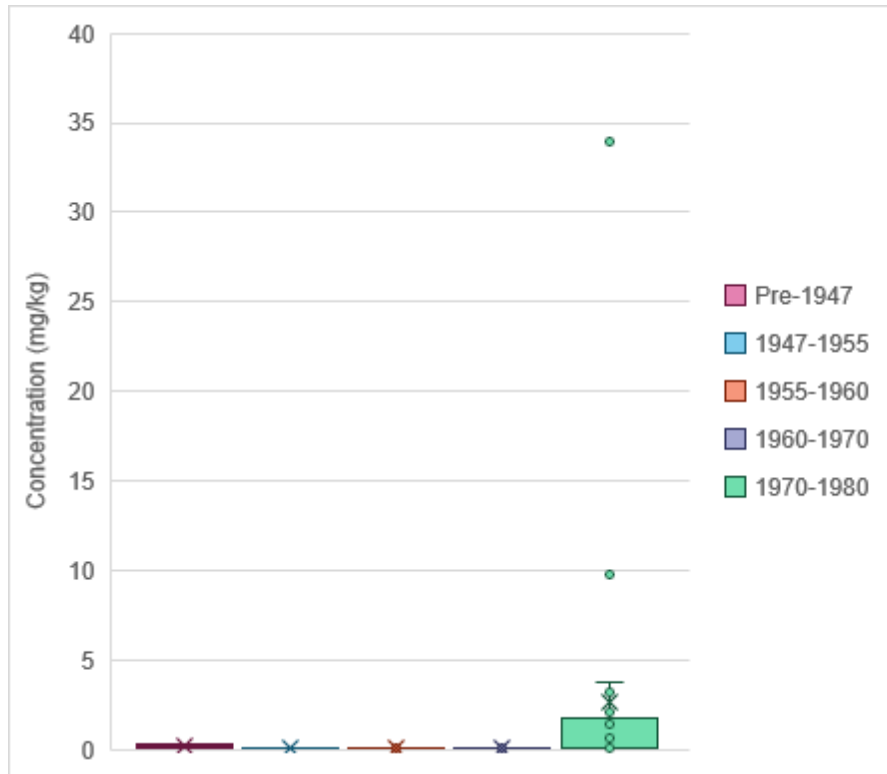




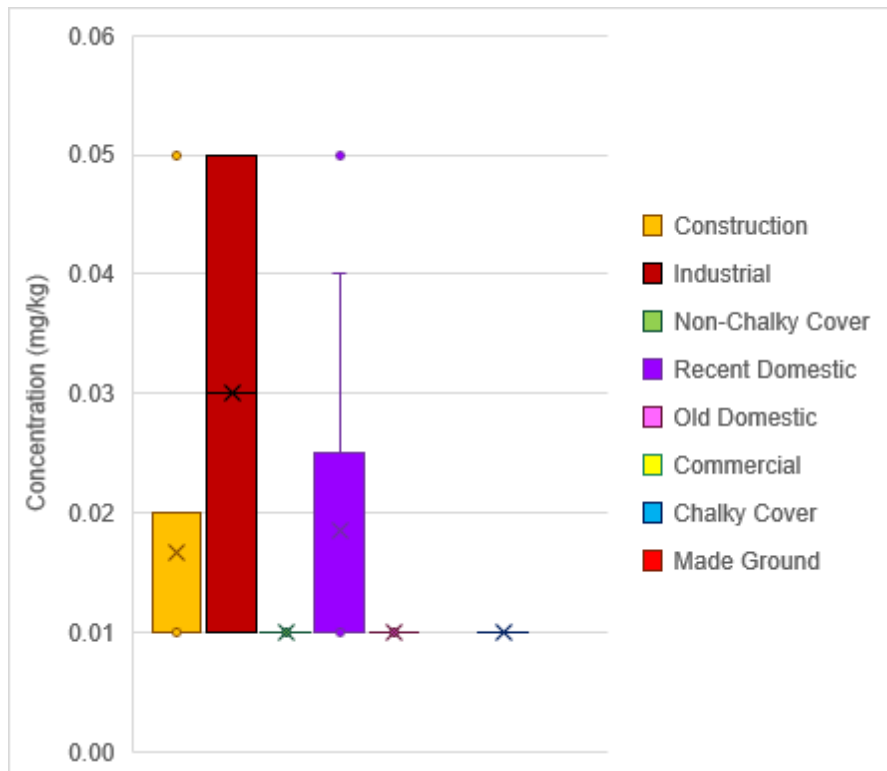


D23 Naphthalene

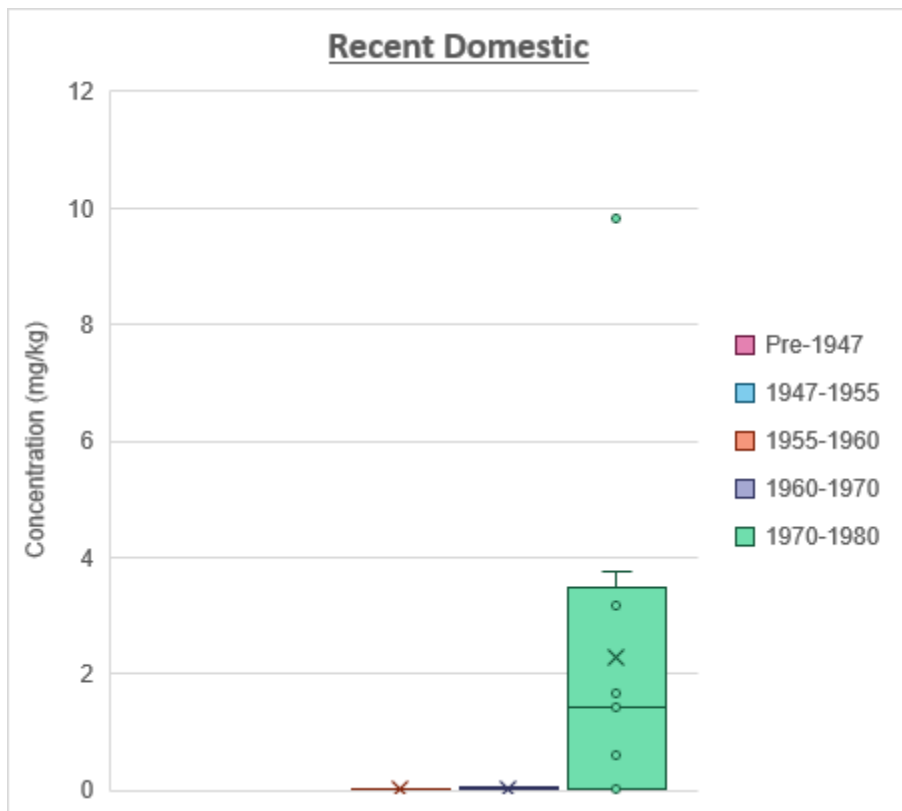
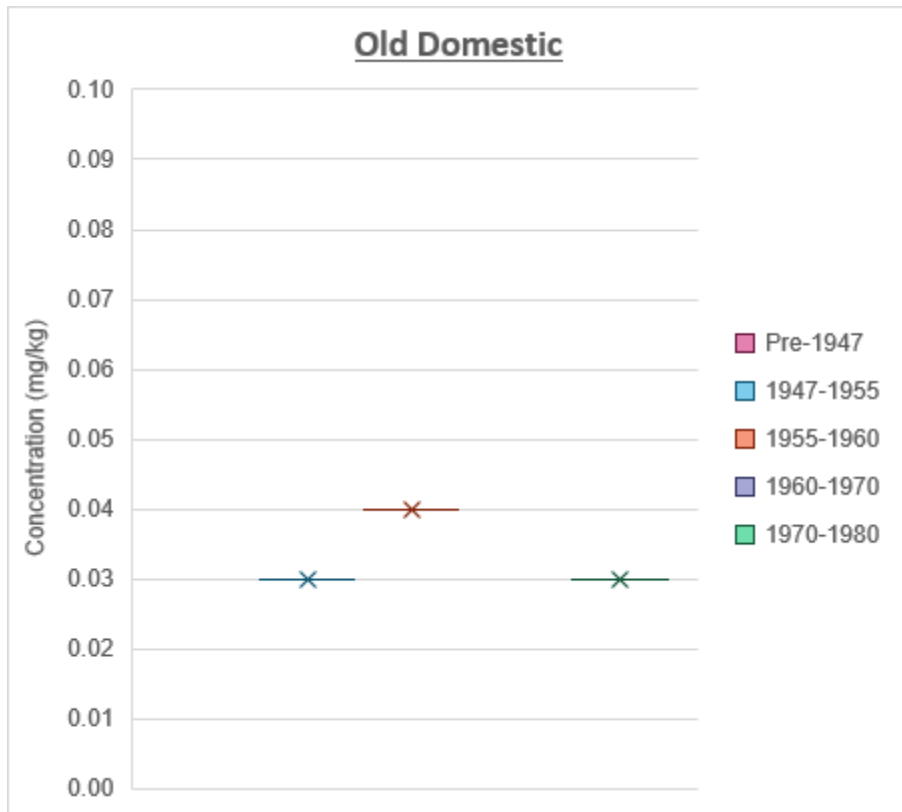
D23.1 Concentration by Era

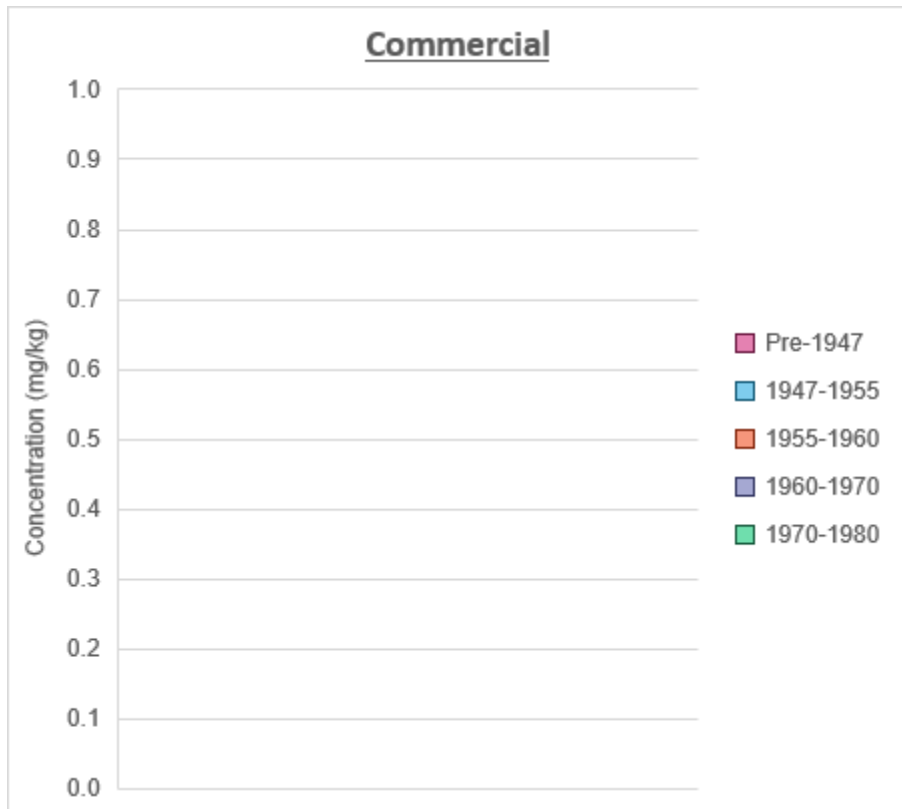
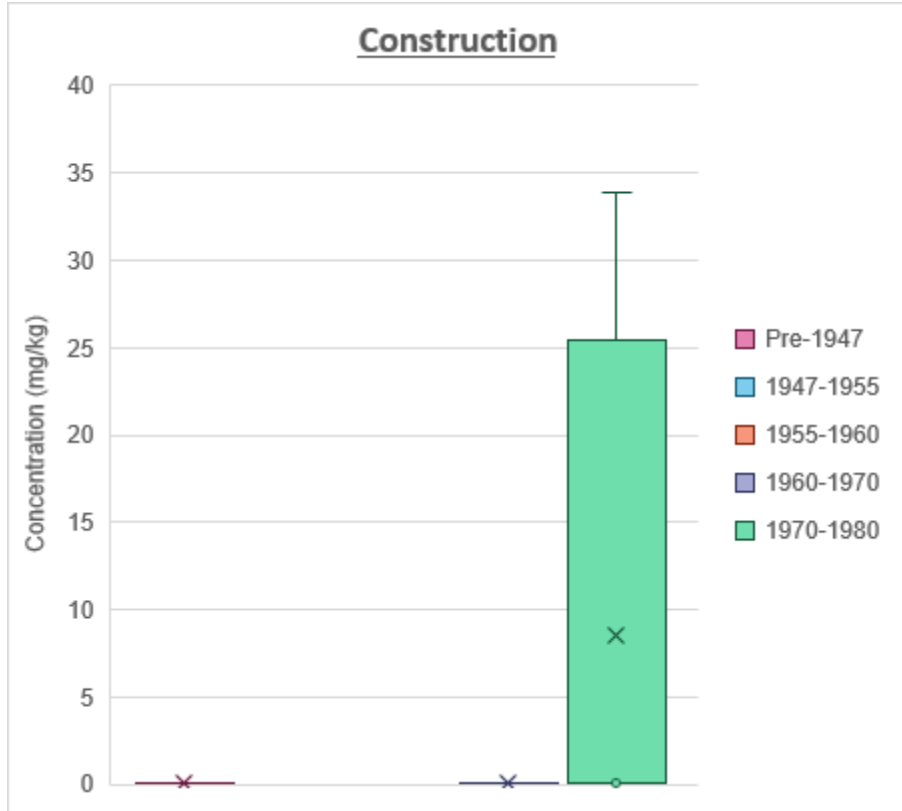


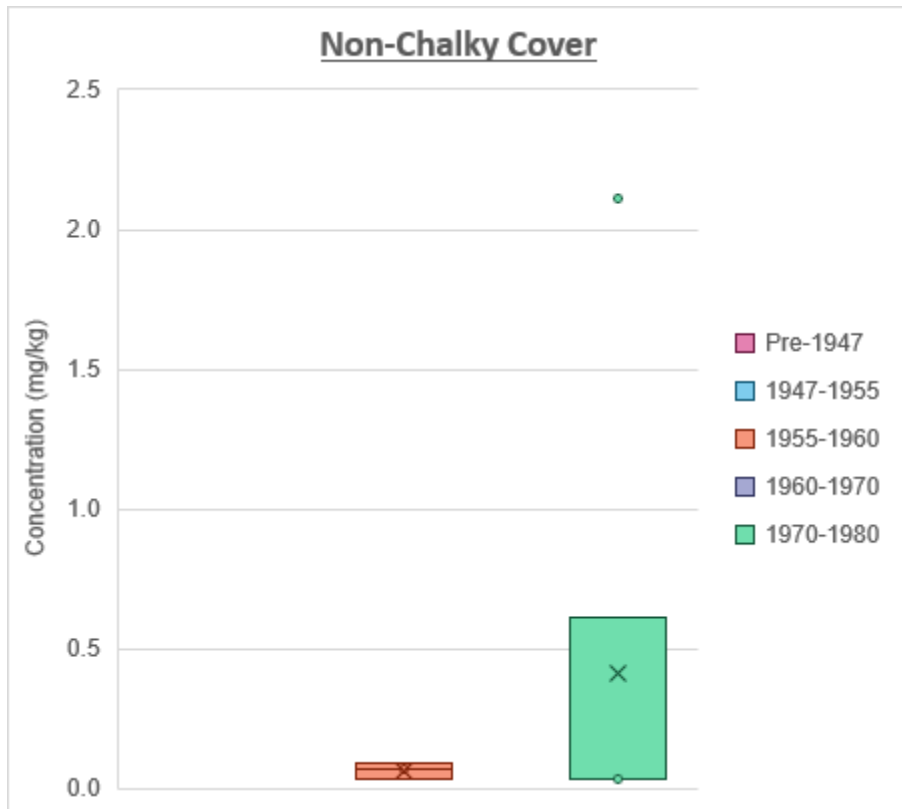
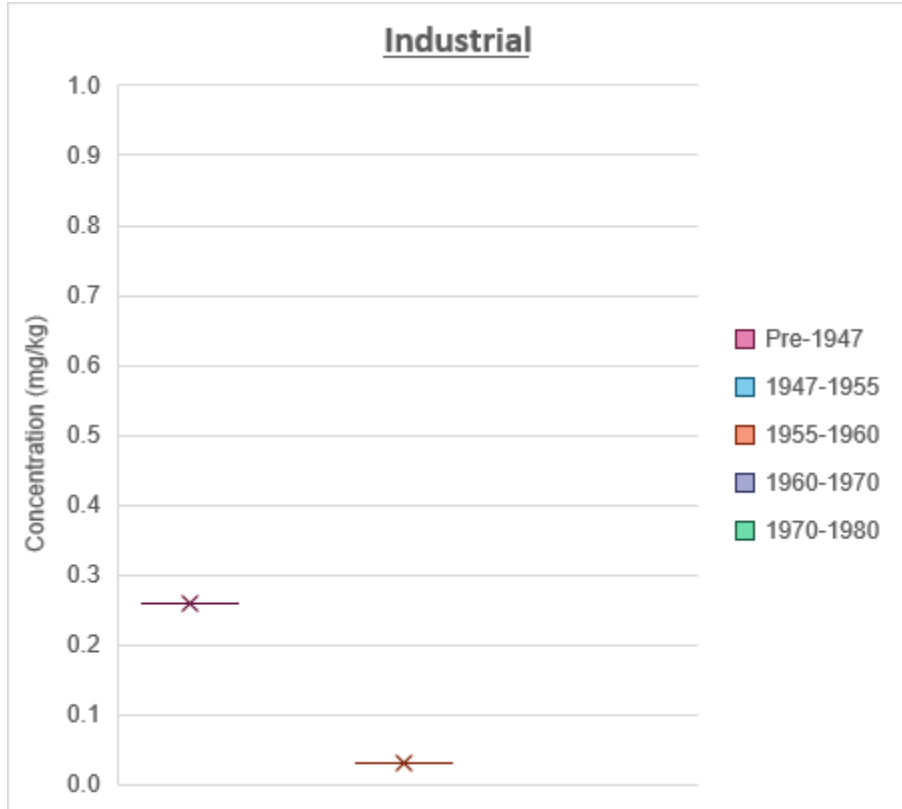
D23.2 Concentration by Waste Type

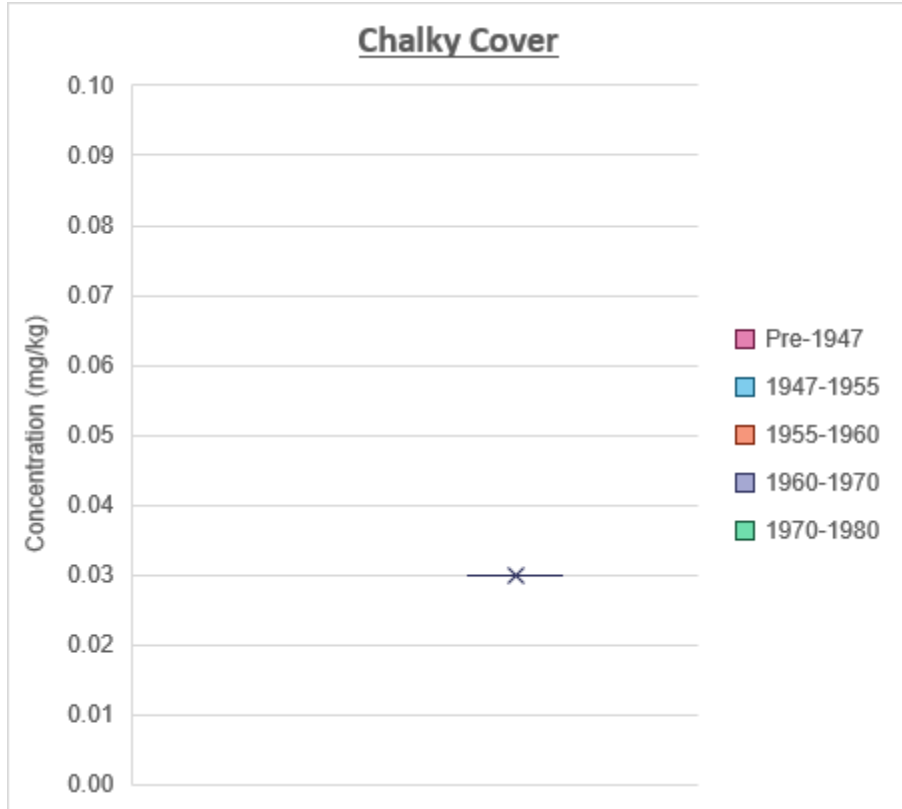


D23.3 Concentration by Waste Type and Era

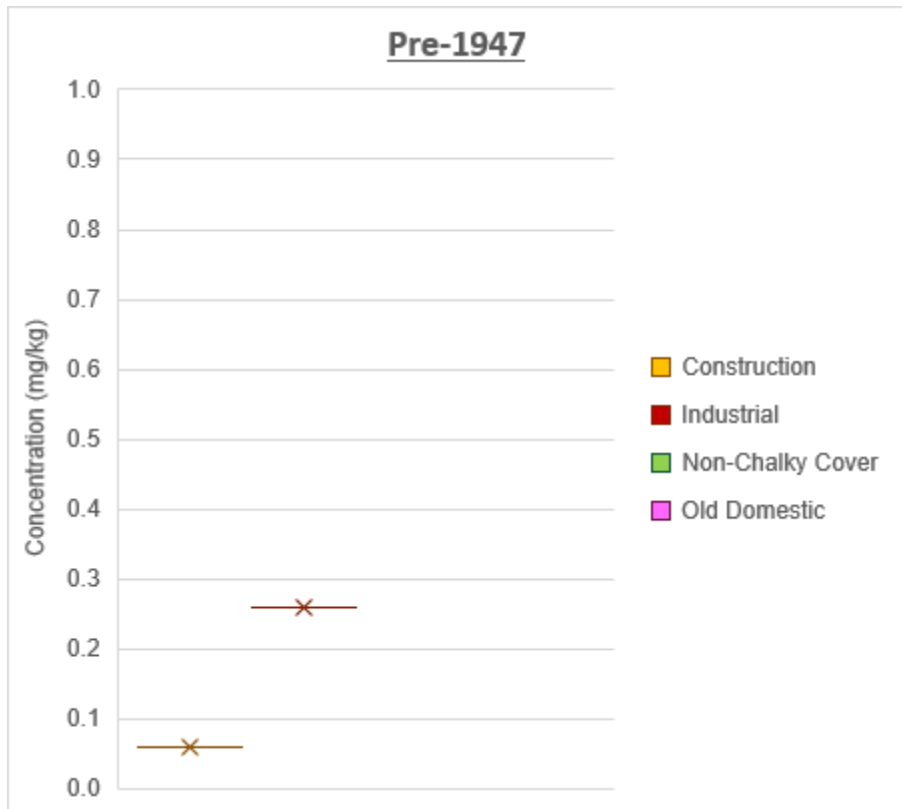


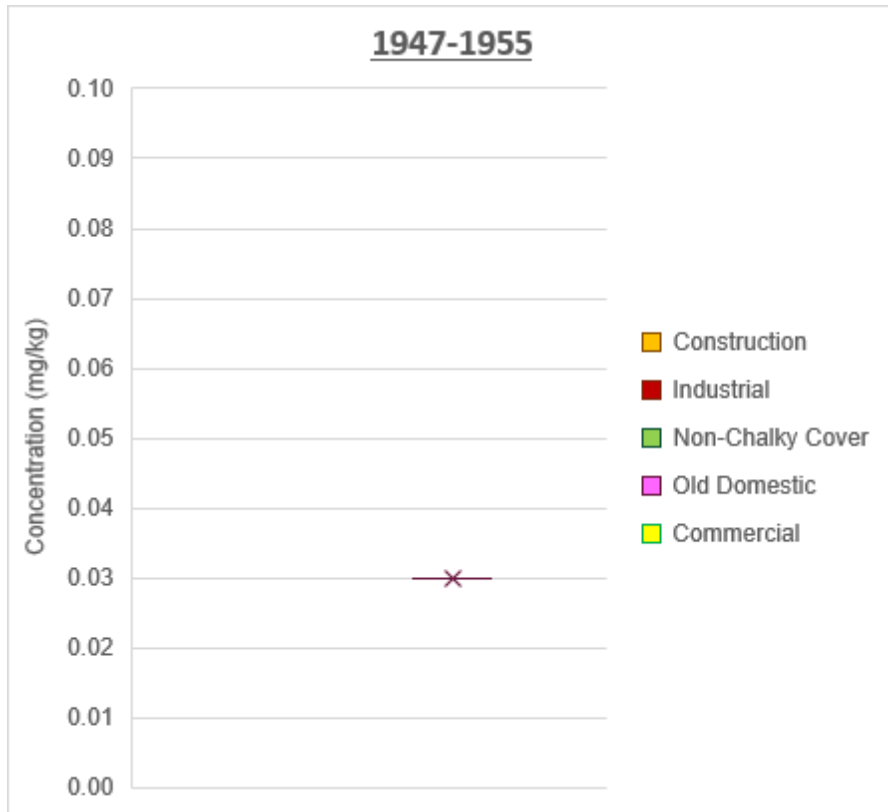


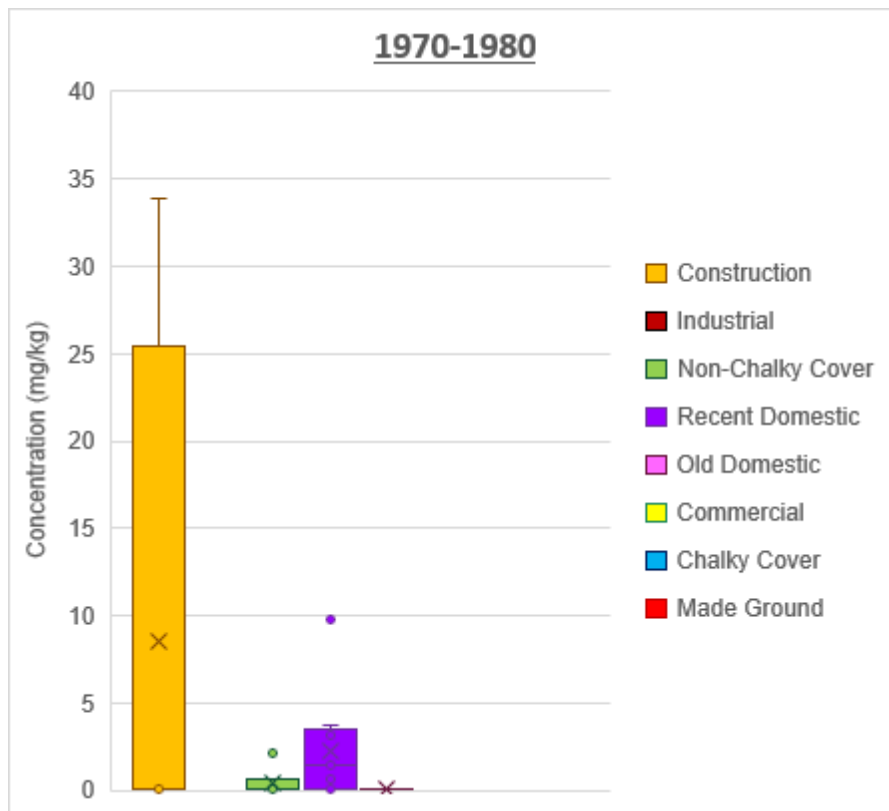
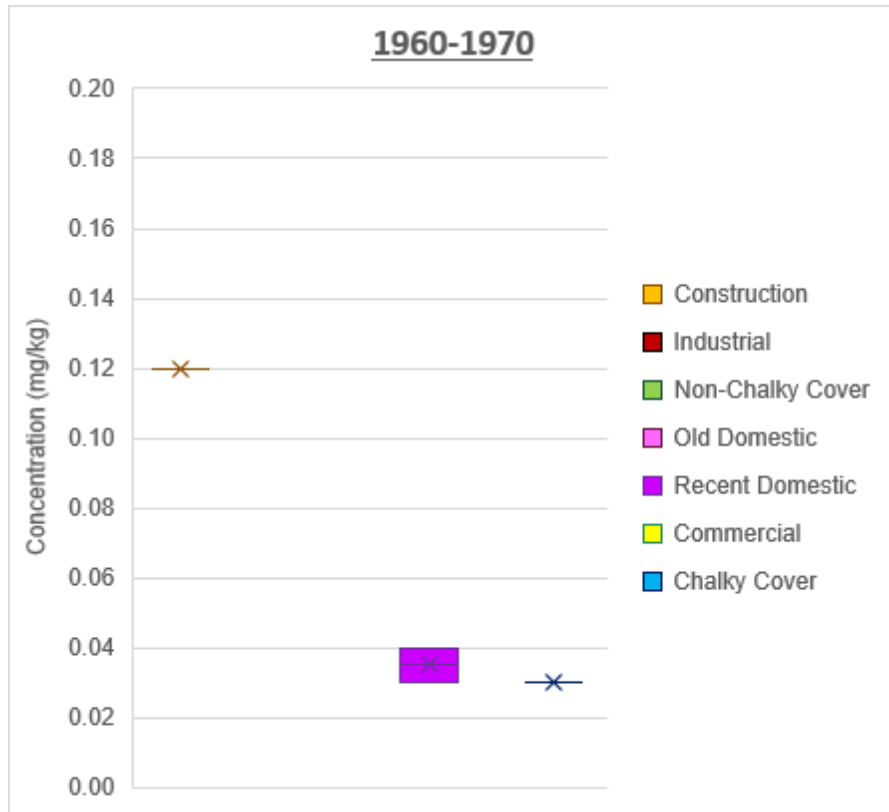




D23.4 Concentration by Era and Waste Type

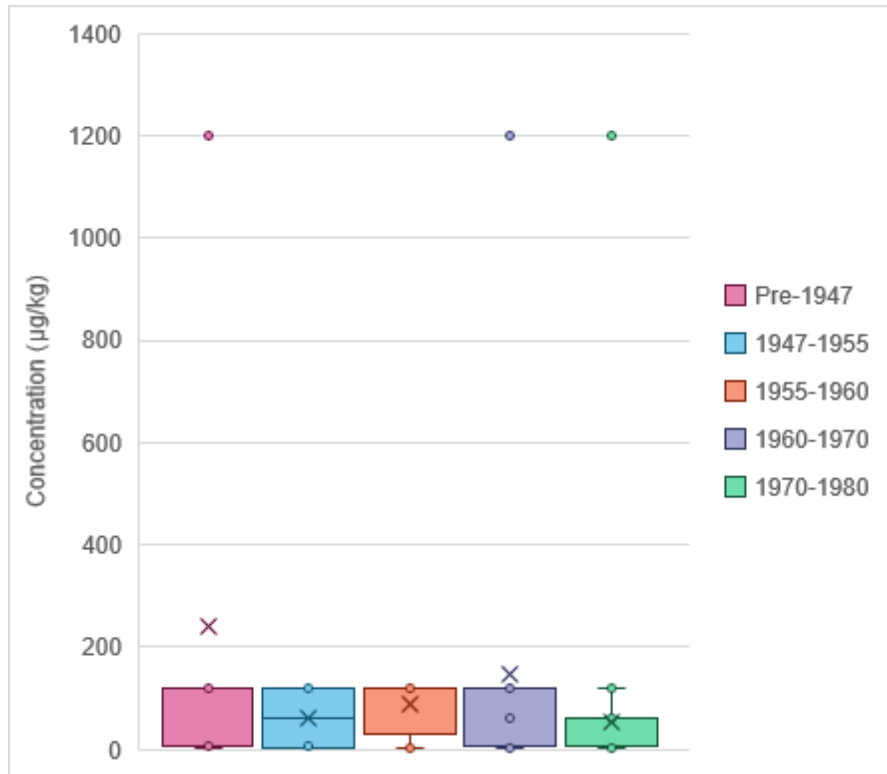




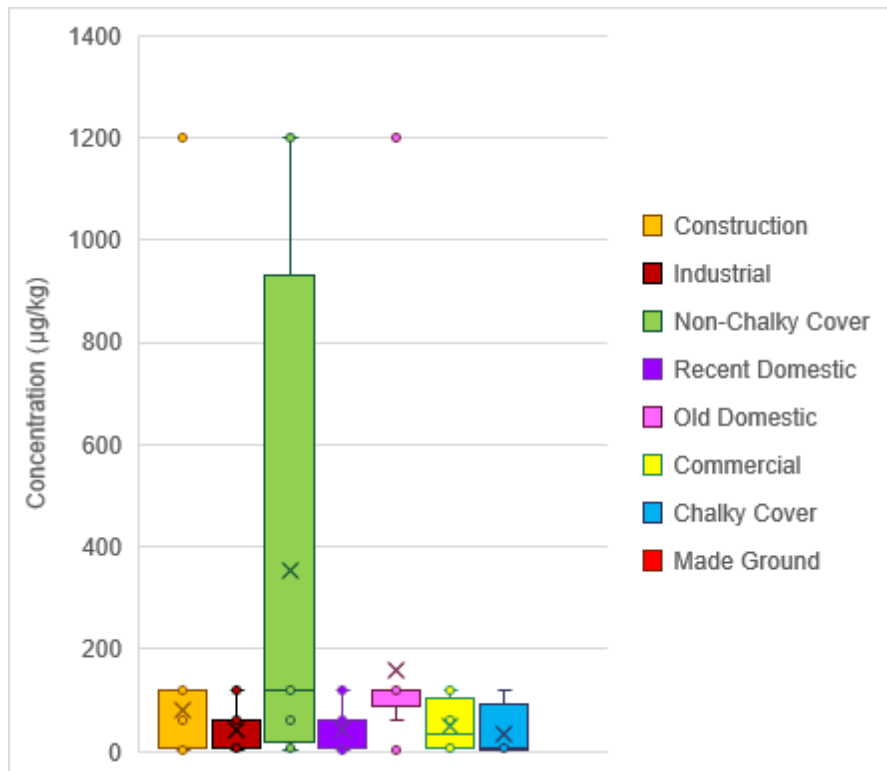


D24 Vinyl Chloride

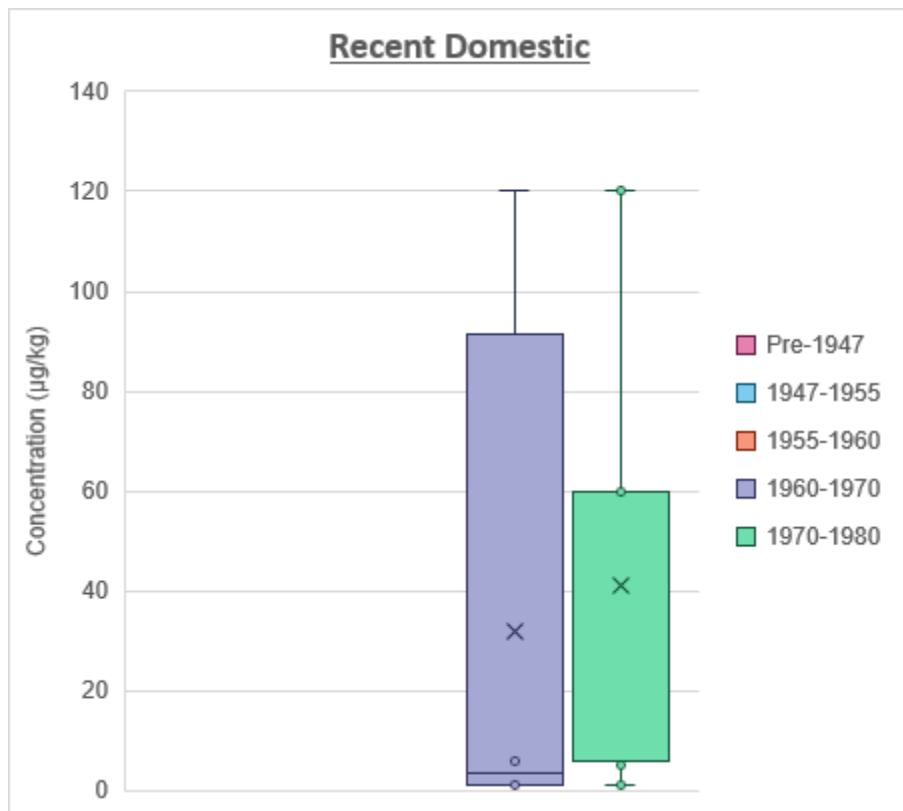
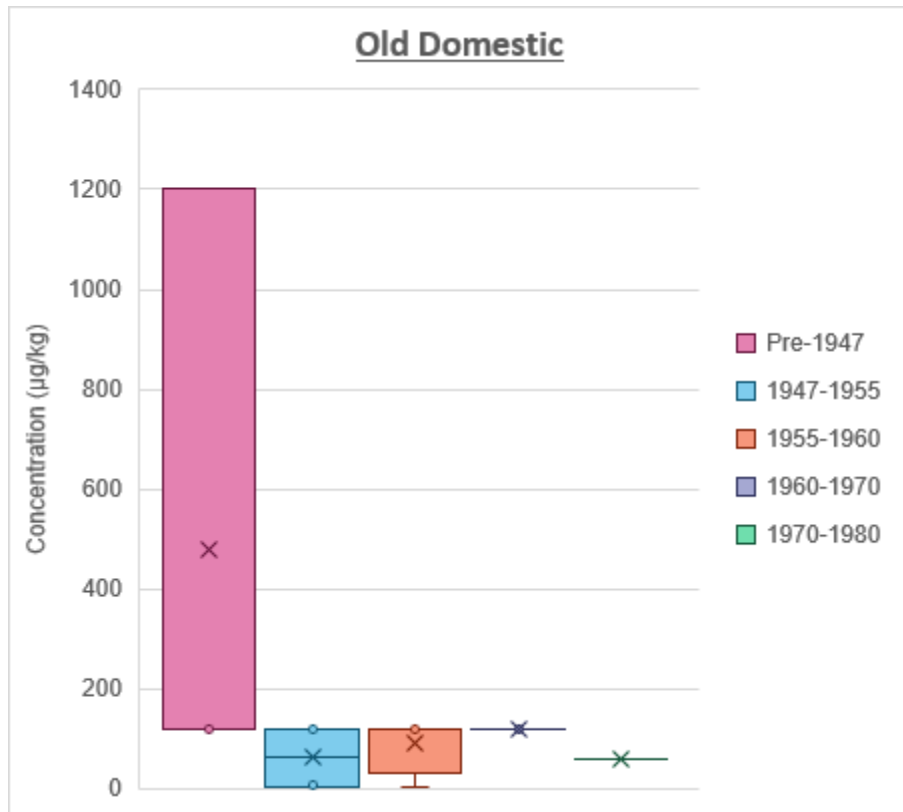
D24.1 Concentration by Era

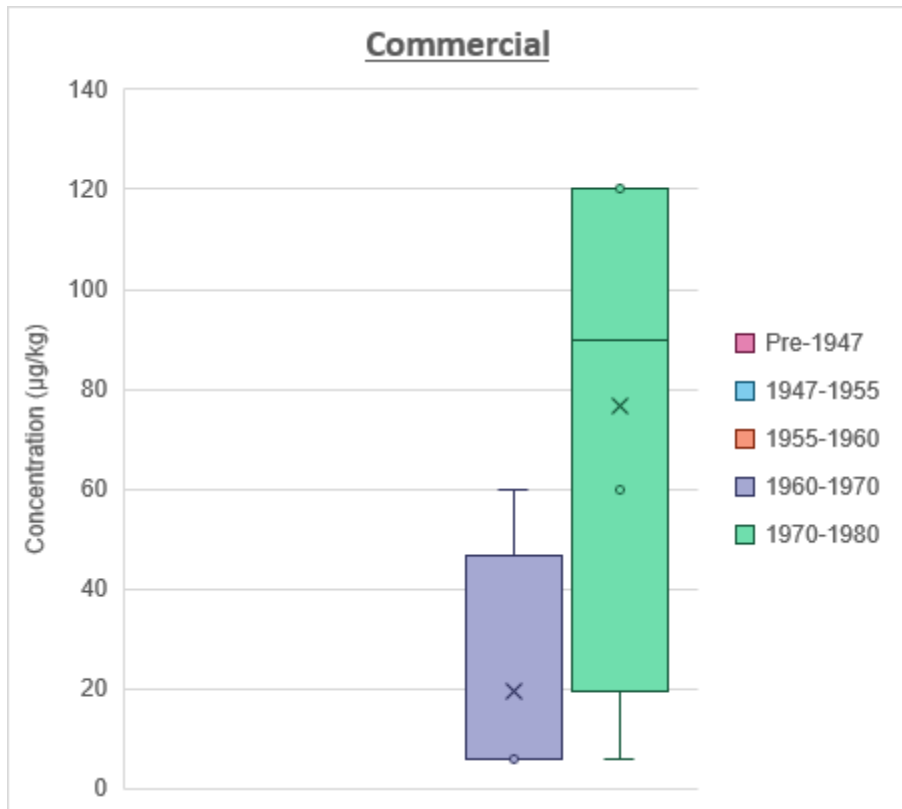
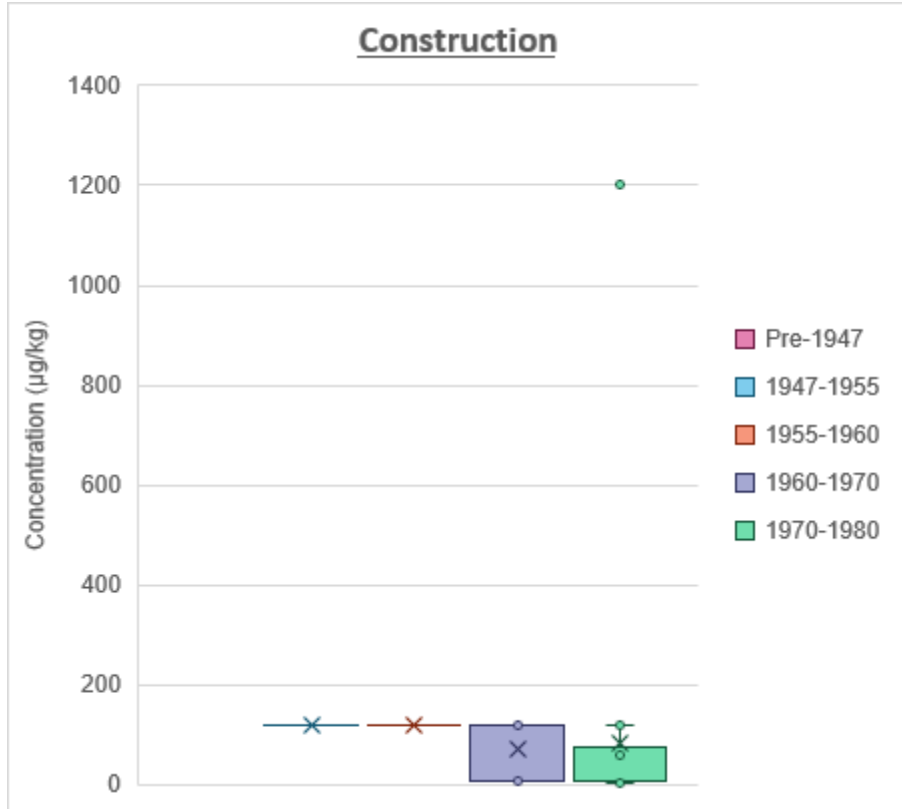


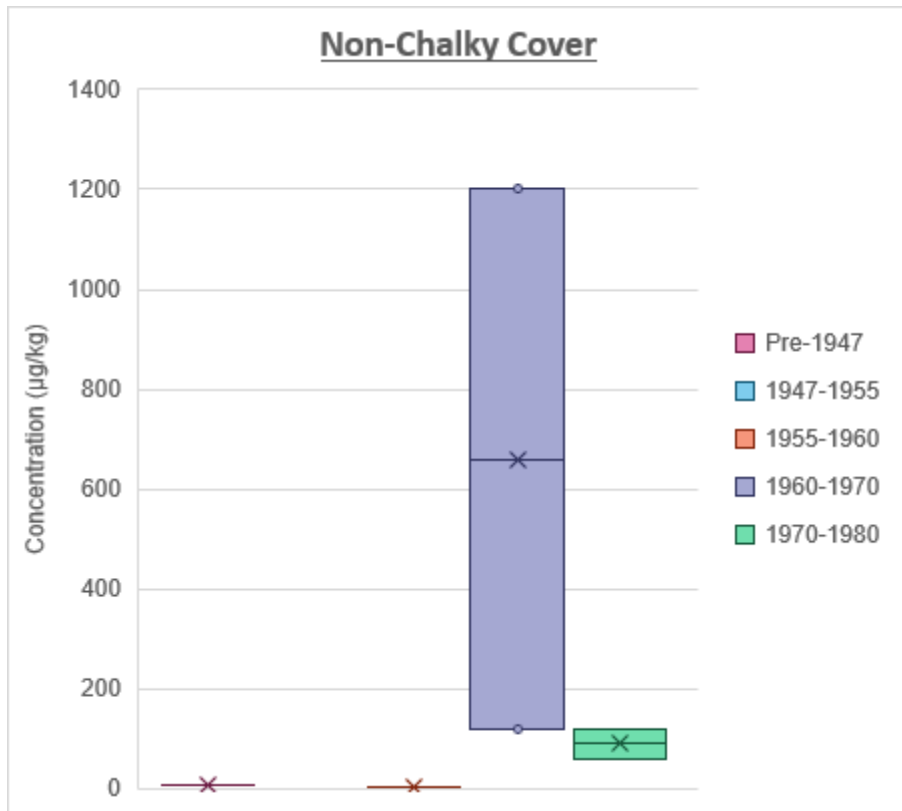
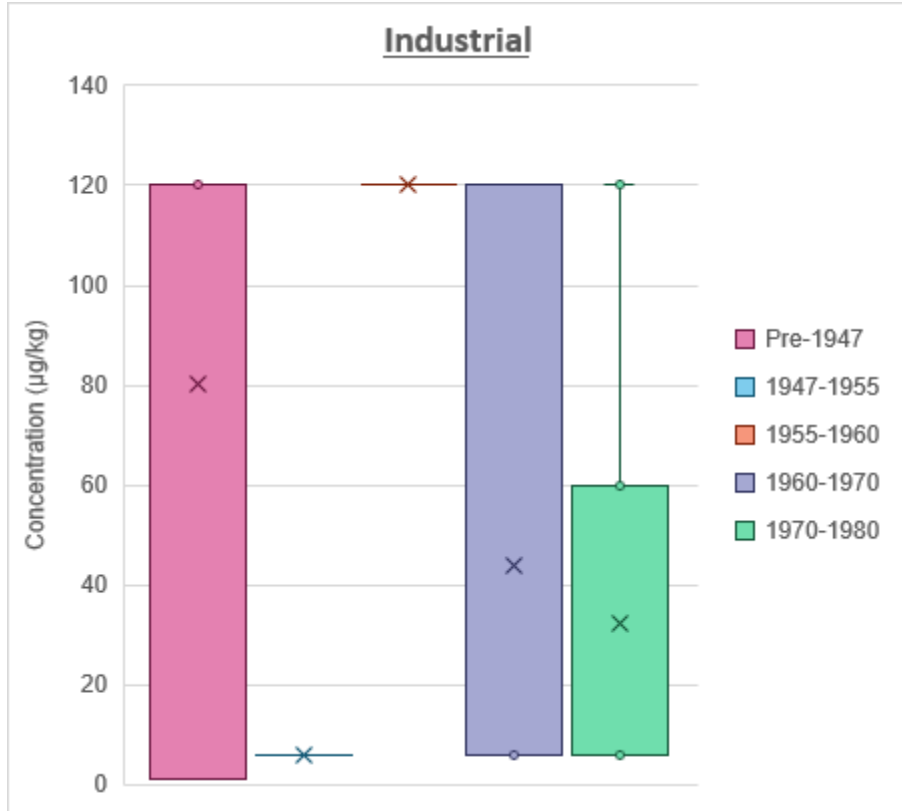
D24.2 Concentration by Waste Type

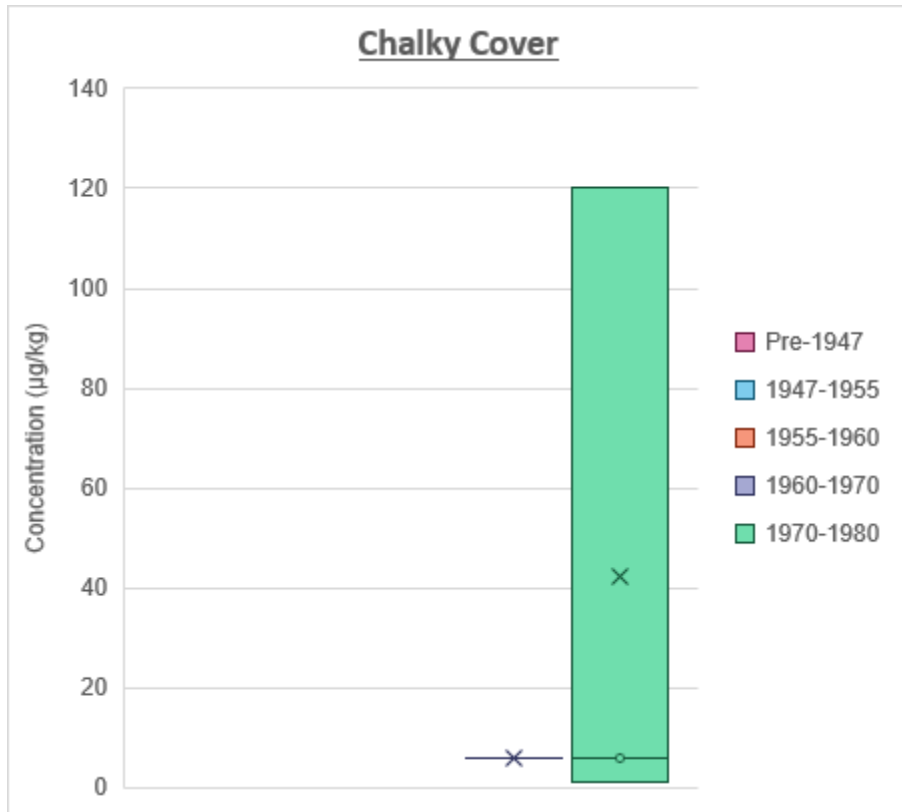


D24.3 Concentration by Waste Type and Era

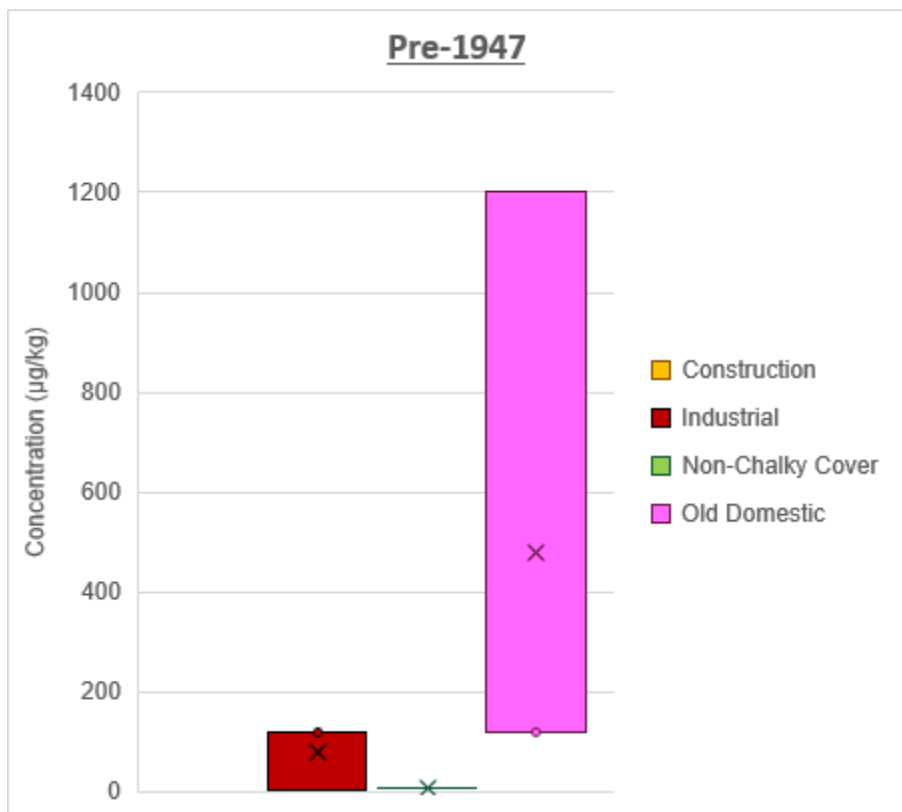


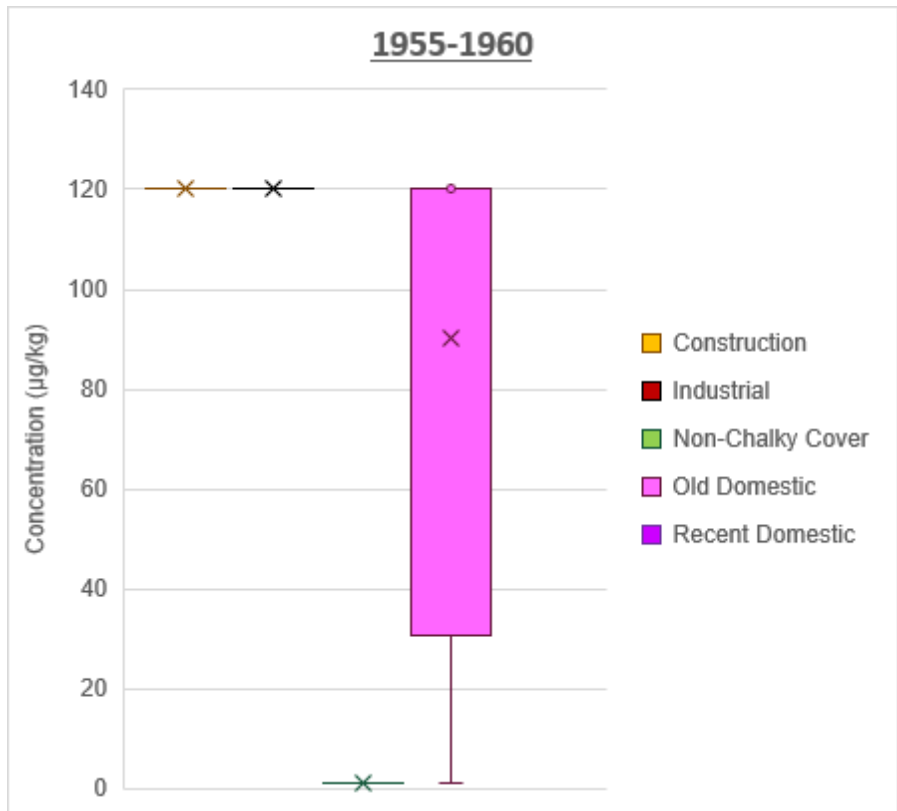
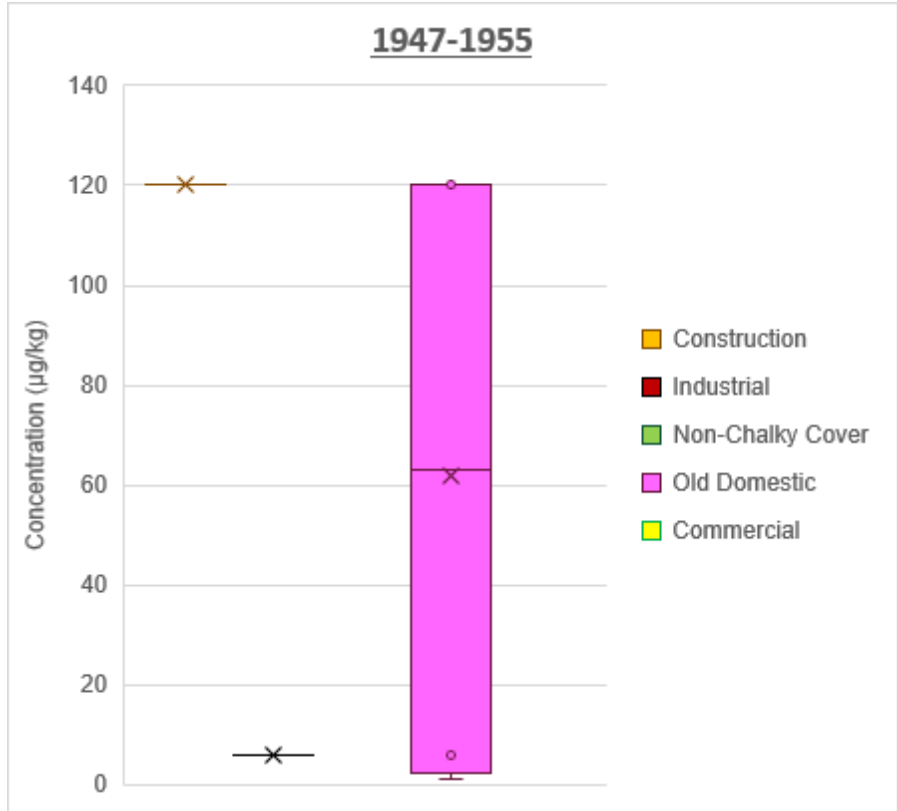


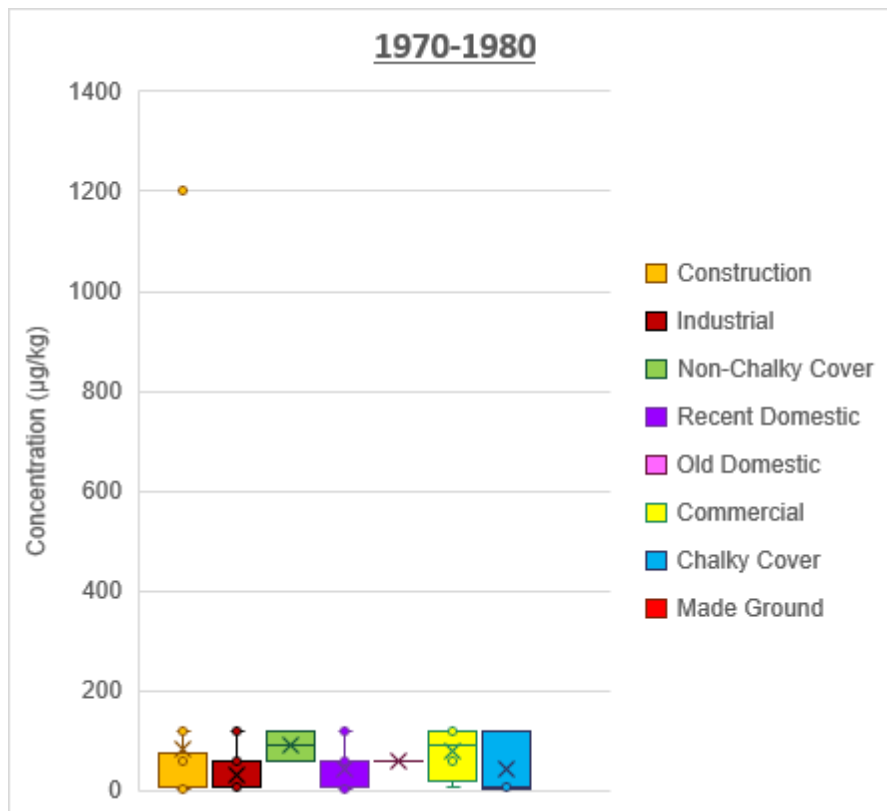
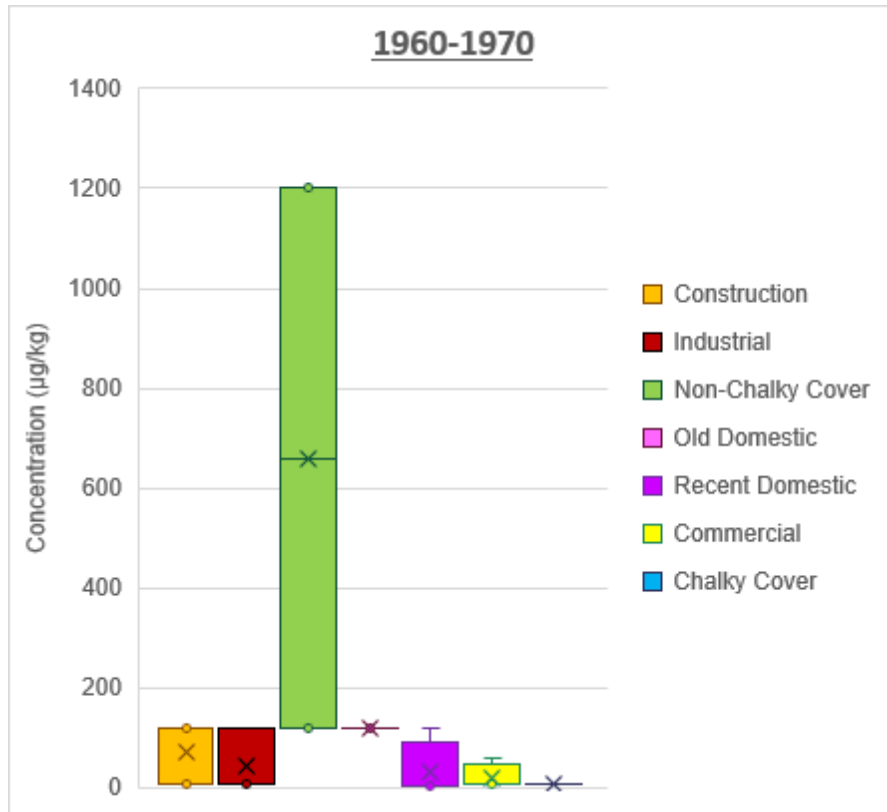




D24.4 Concentration by Era and Waste Type

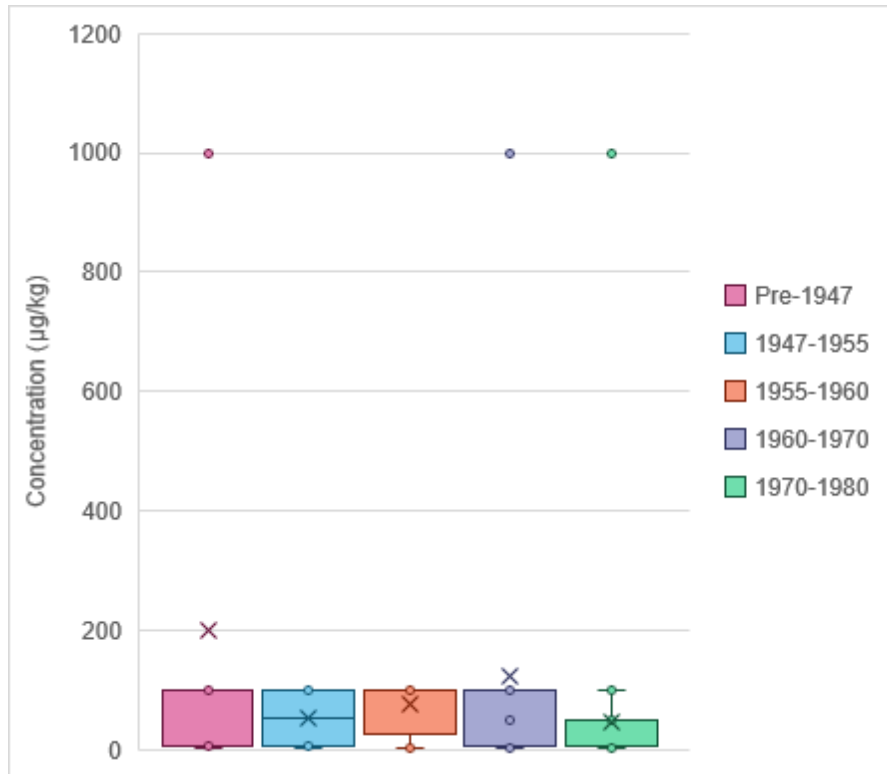




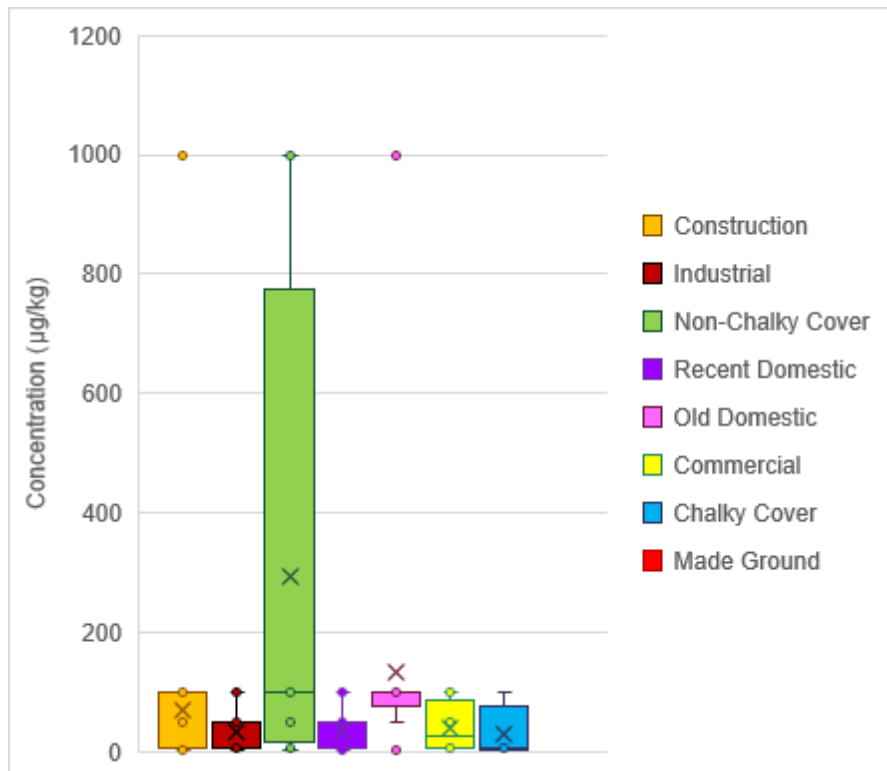


D25 1-2 Dichloroethane

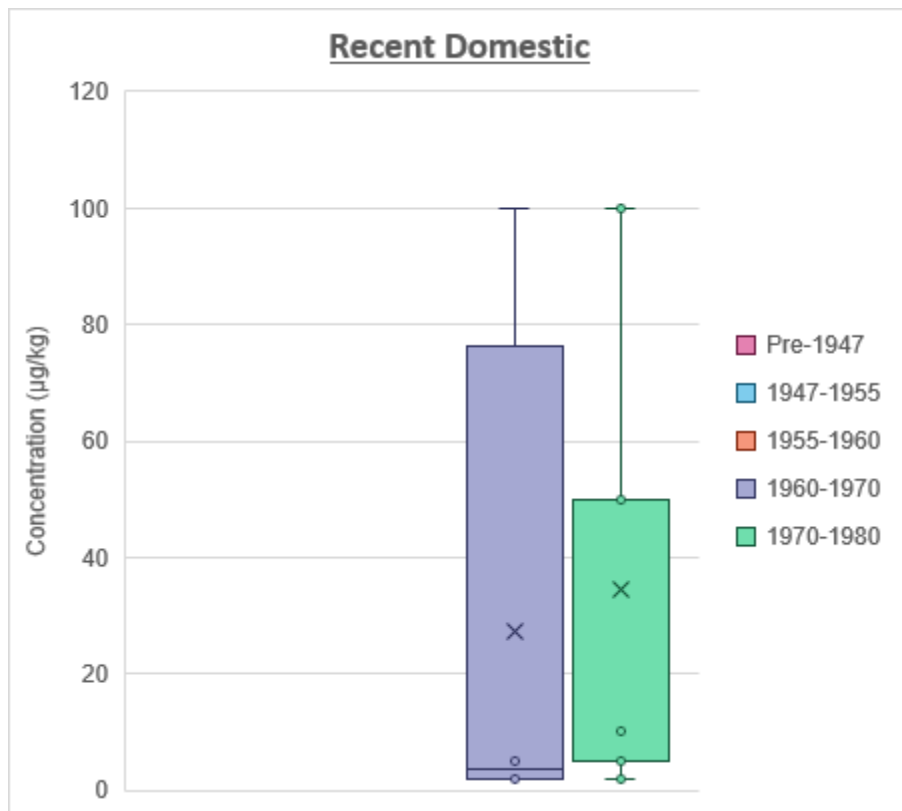
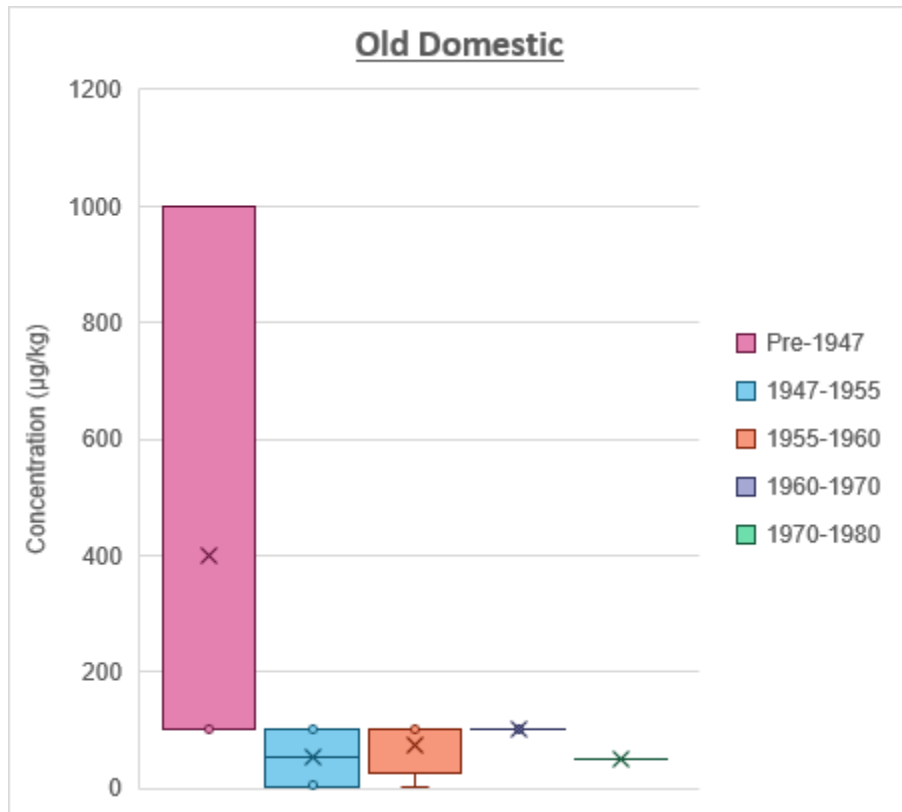
D25.1 Concentration by Era

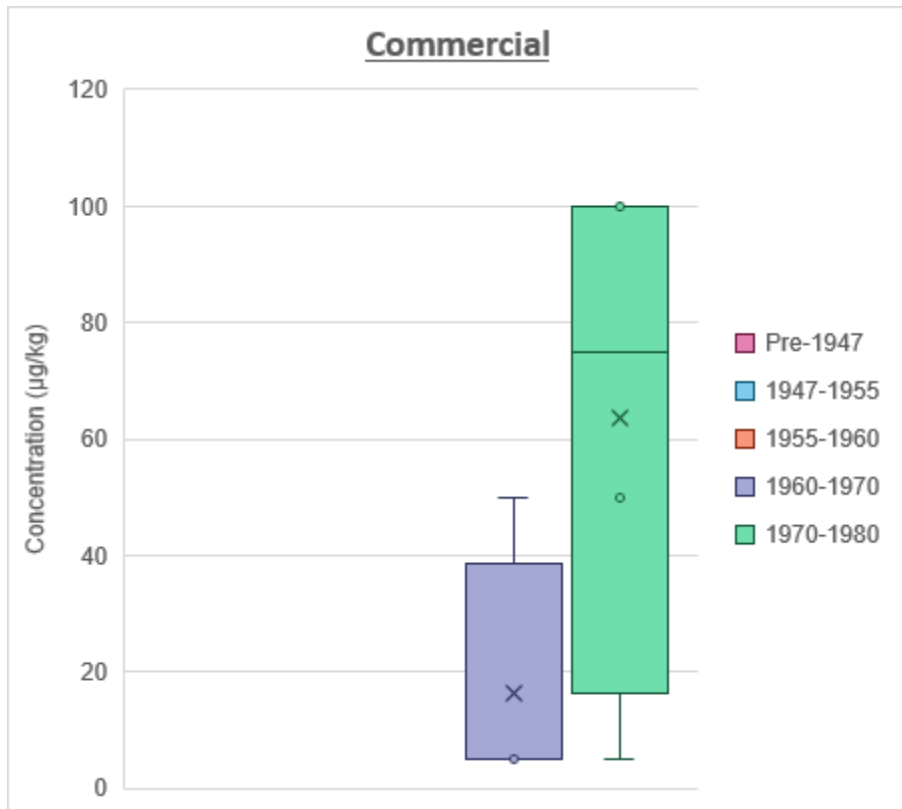
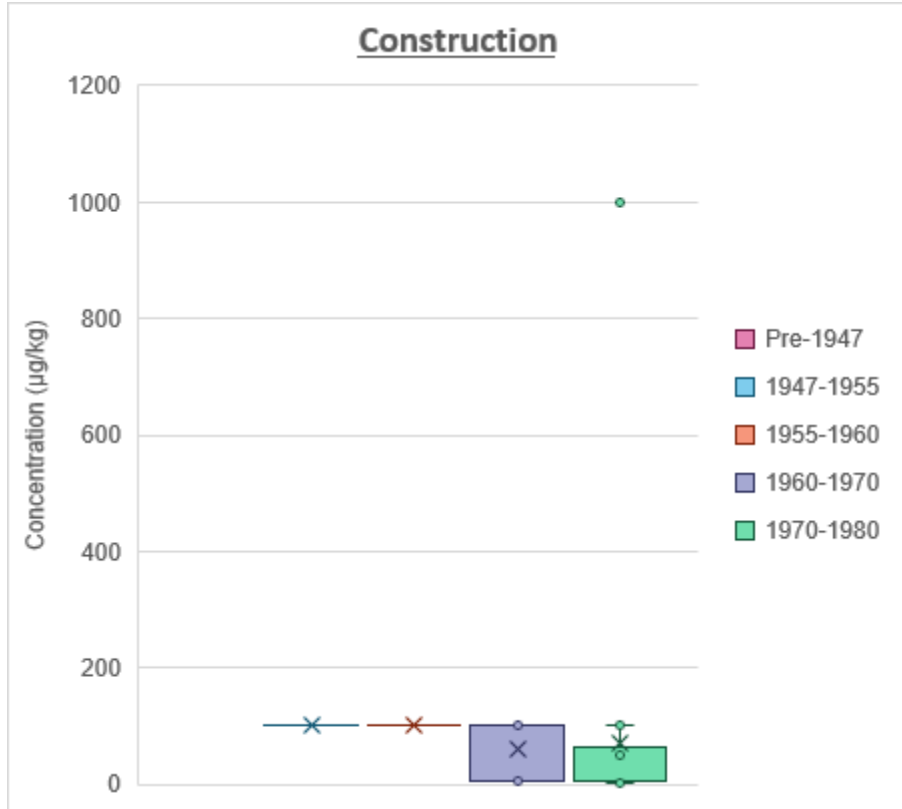


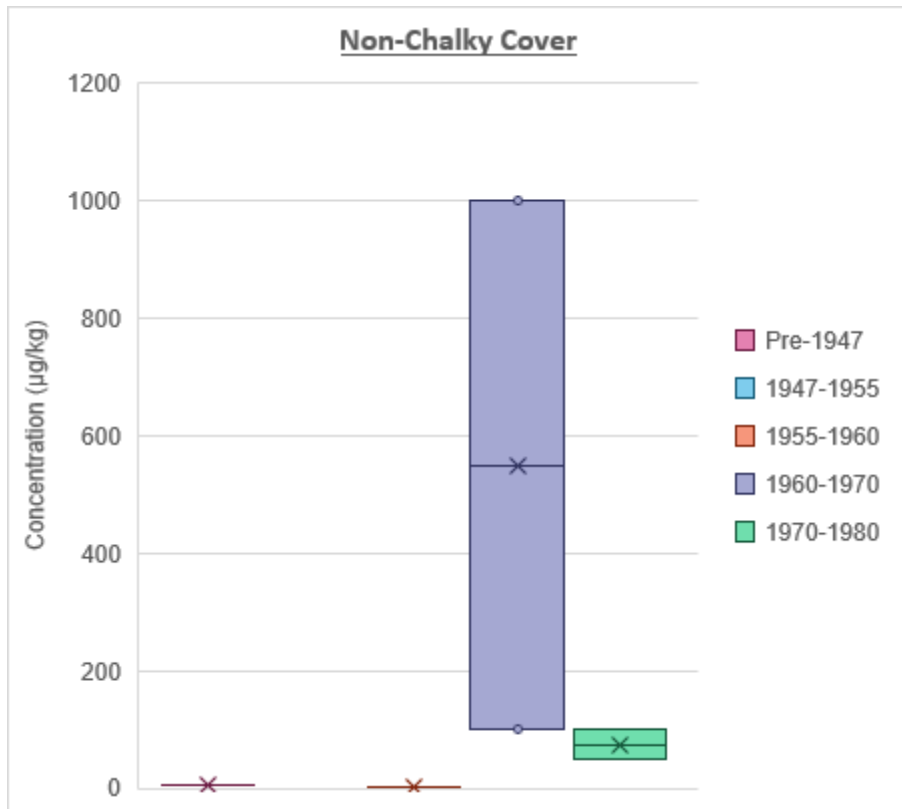
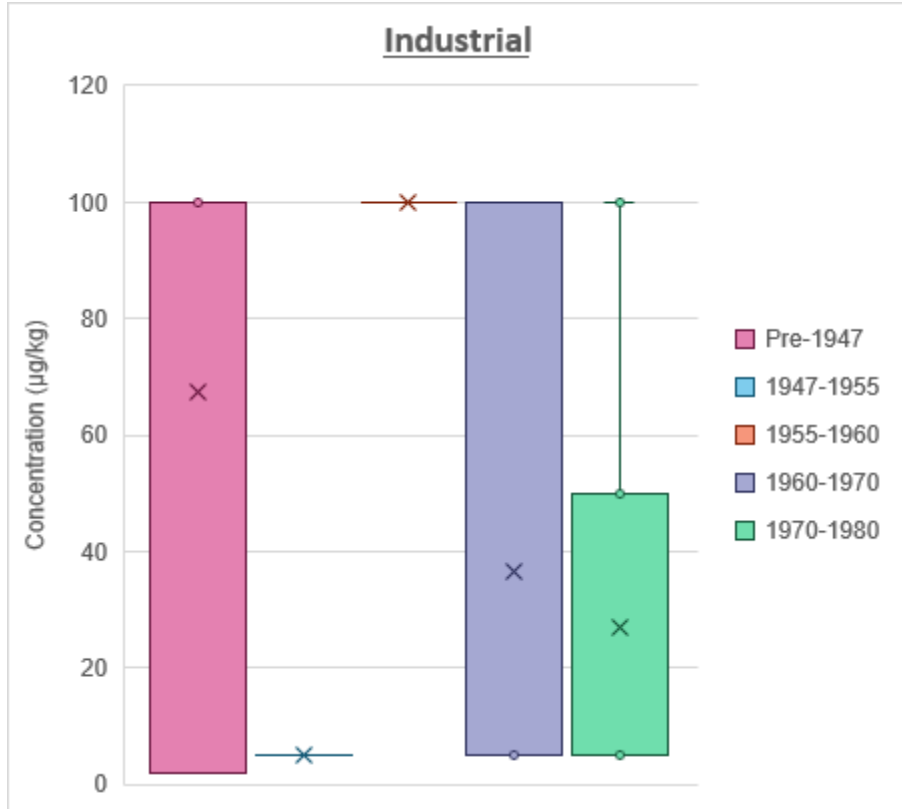
D25.2 Concentration by Waste Type

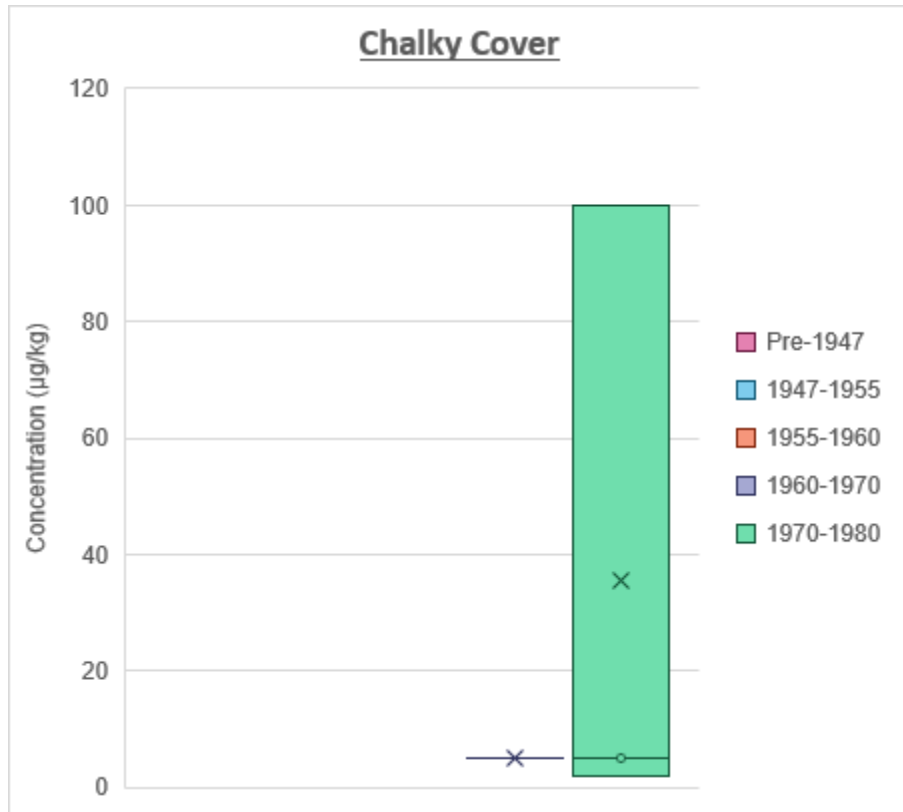


D25.3 Concentration by Waste Type and Era

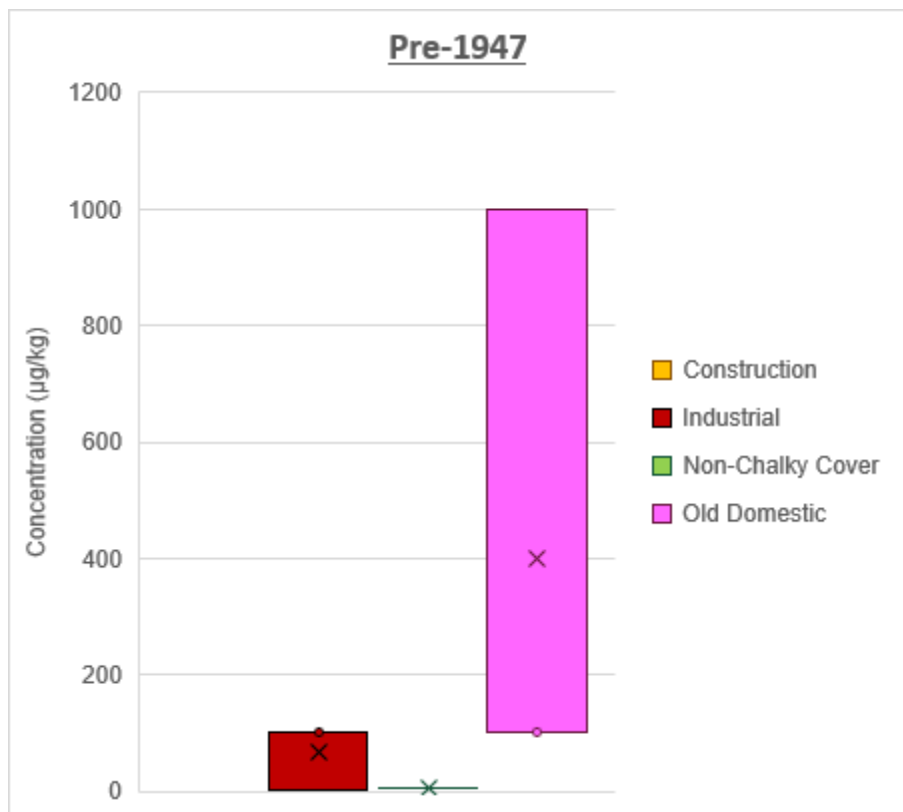


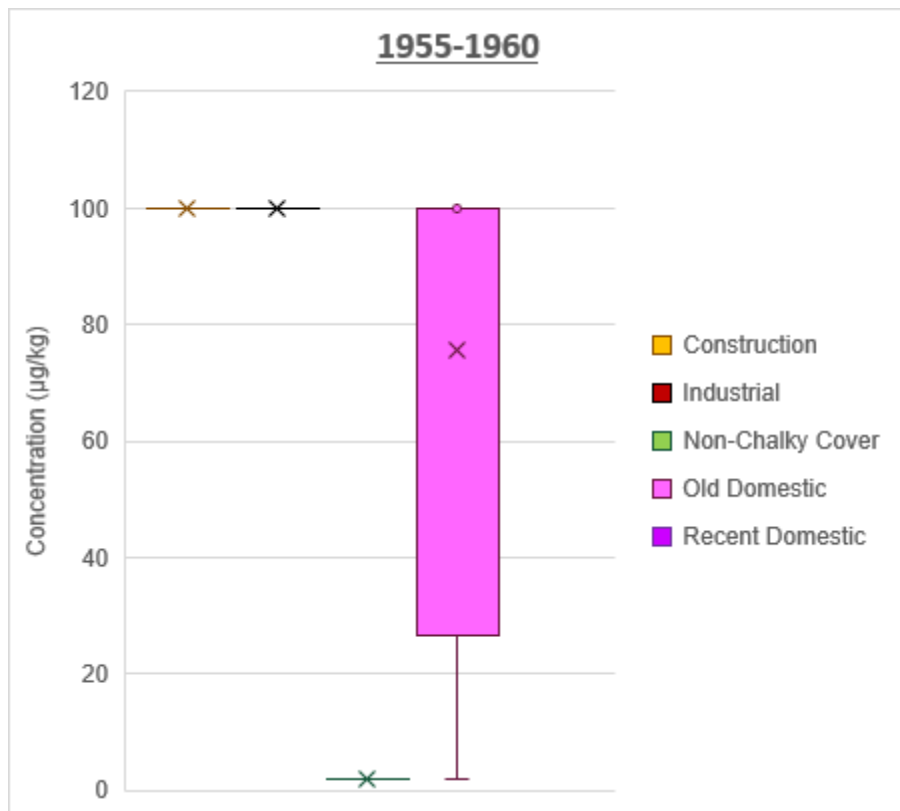
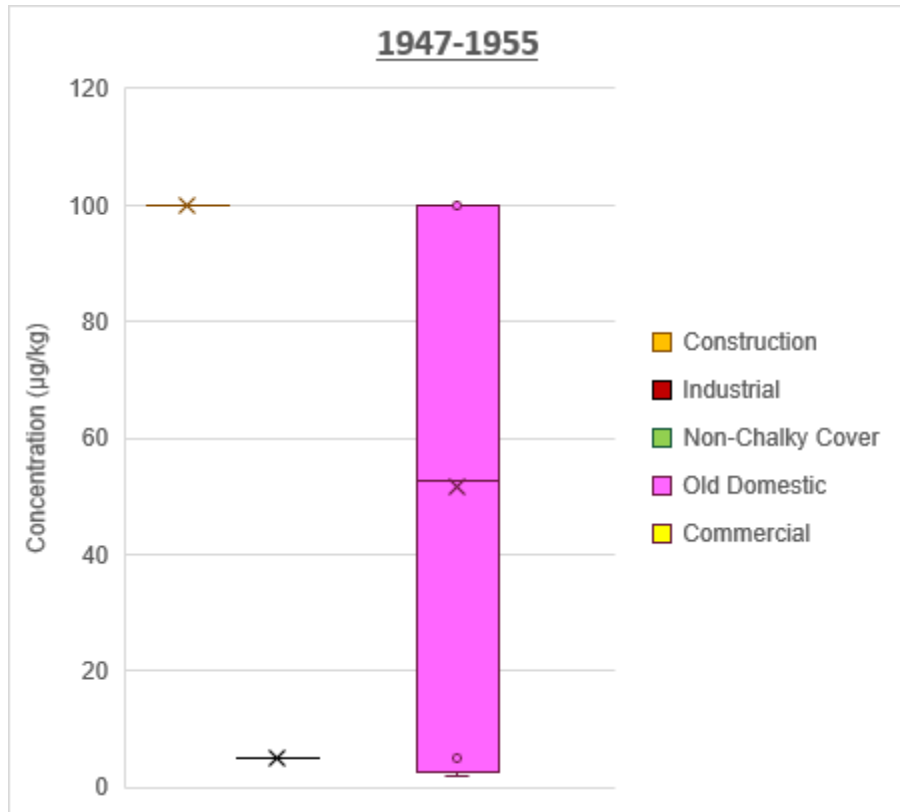


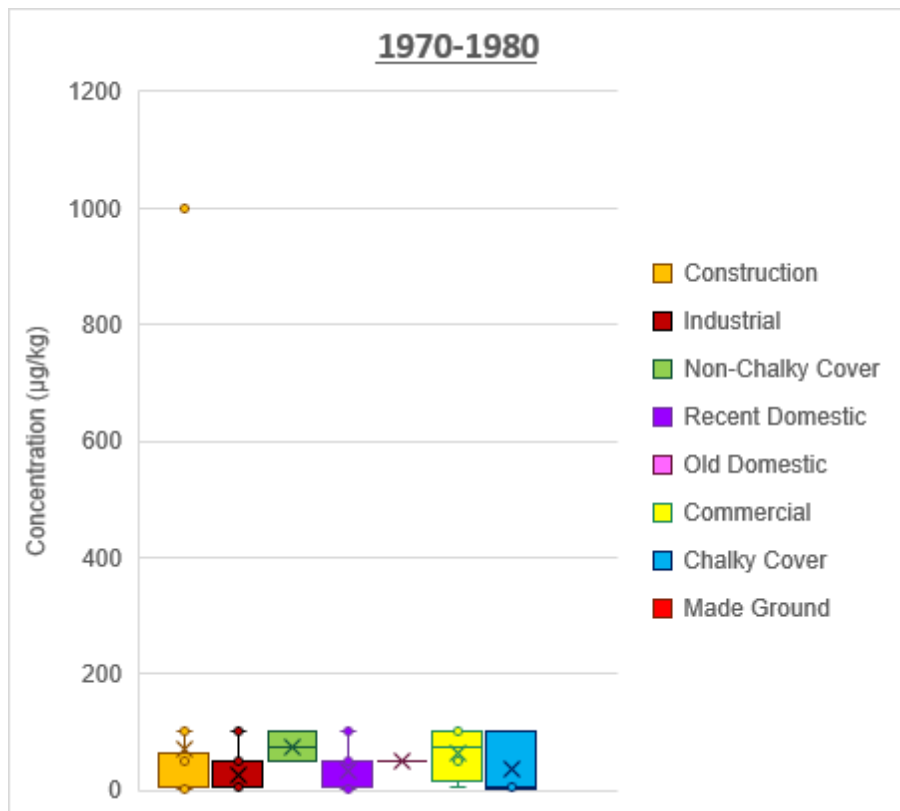
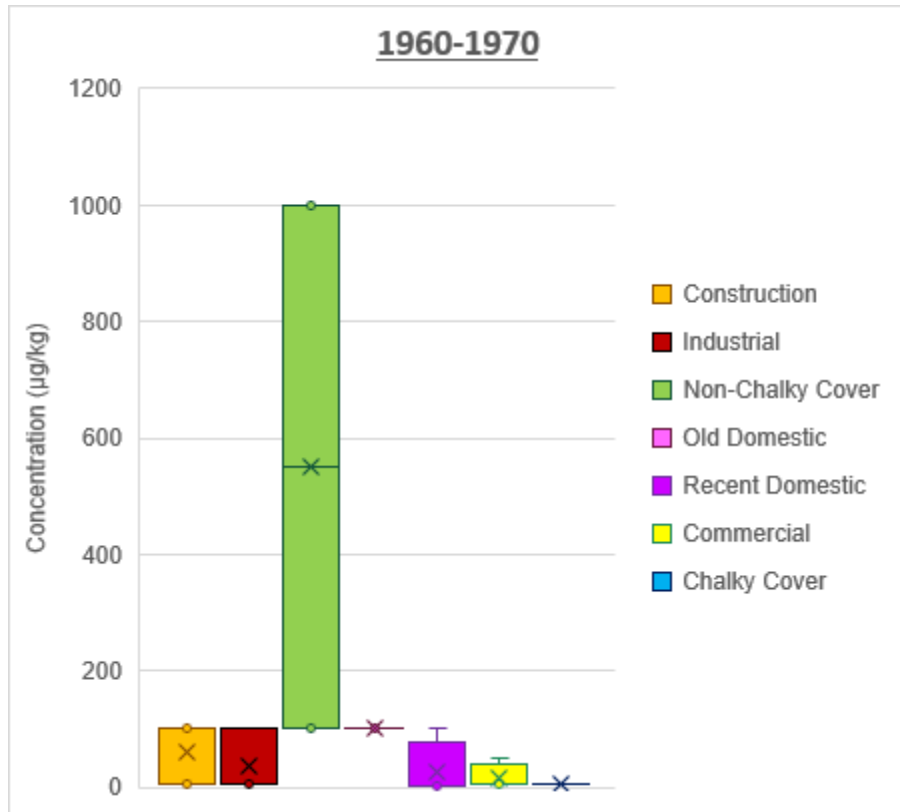




D25.4 Concentration by Era and Waste Type

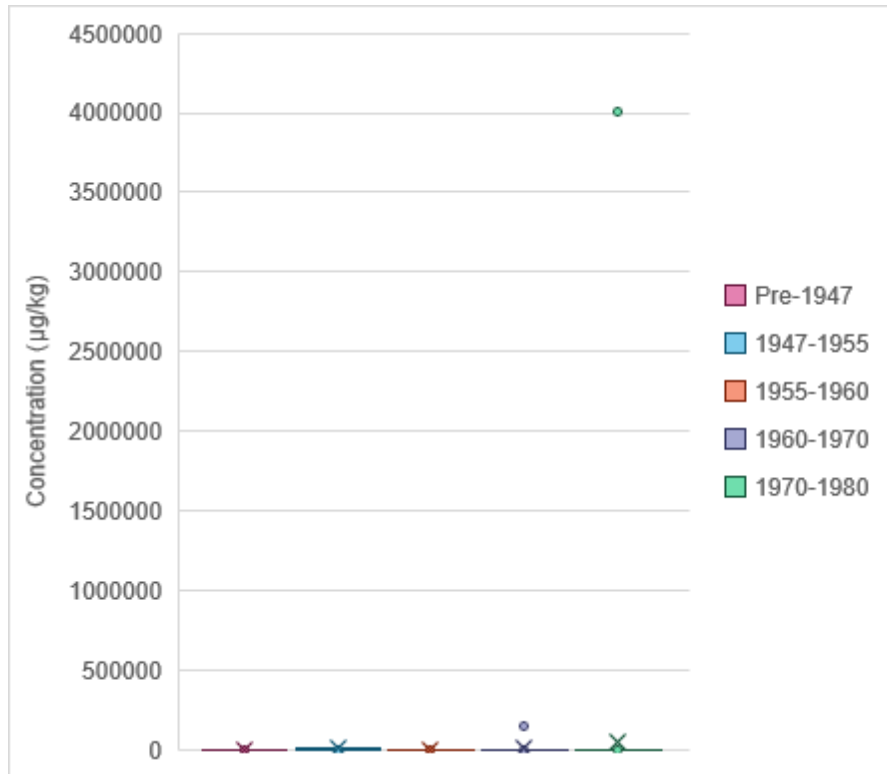




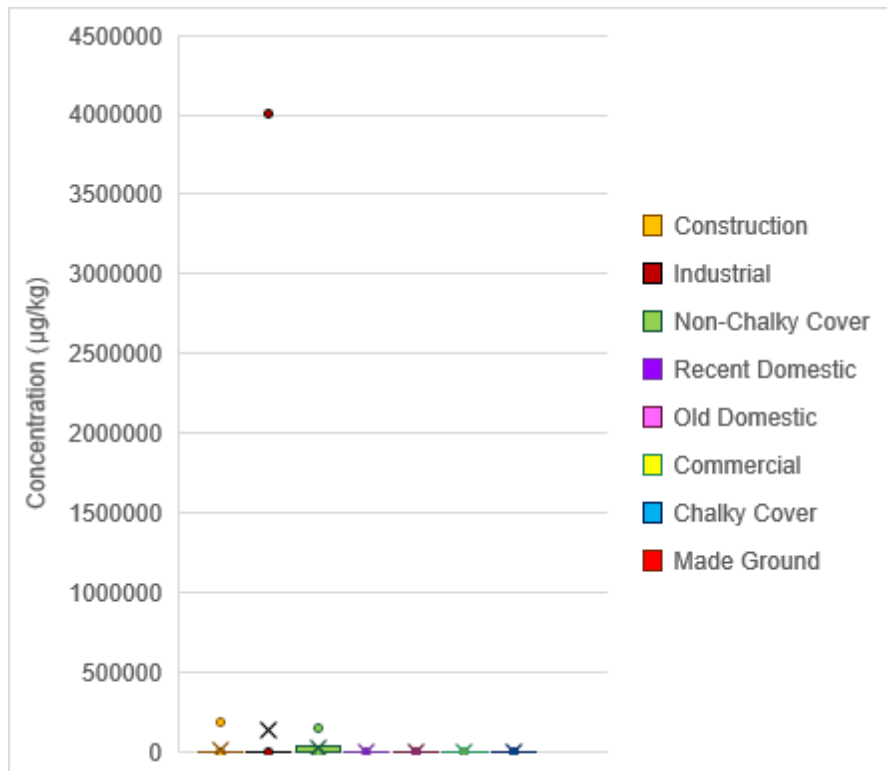


D26 1,3,5-Trimethylbenzene

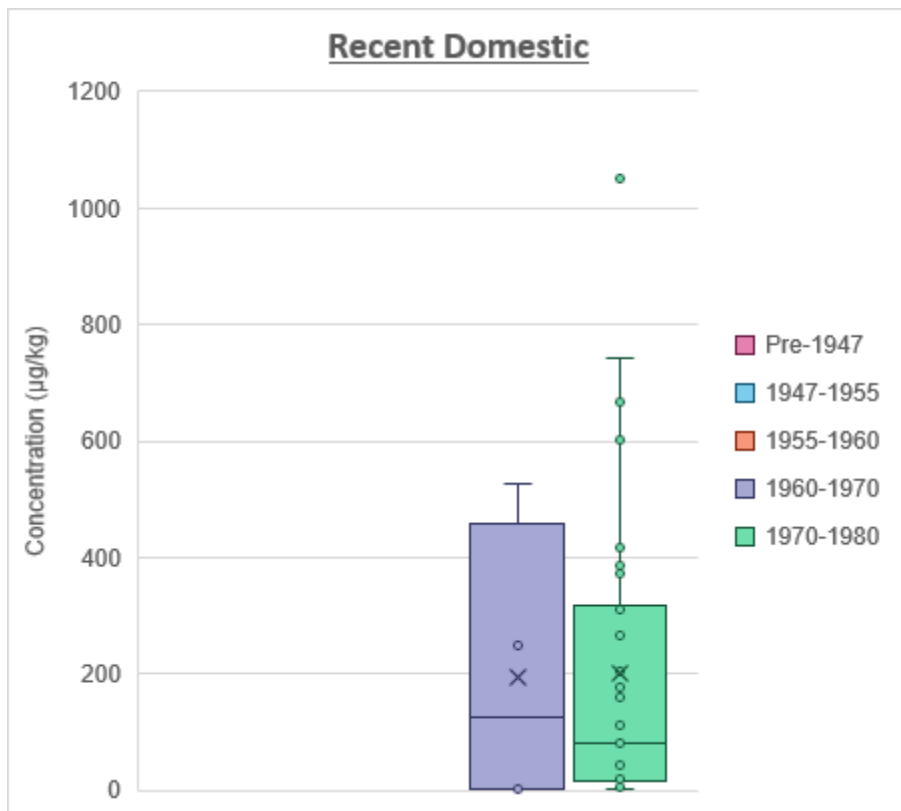
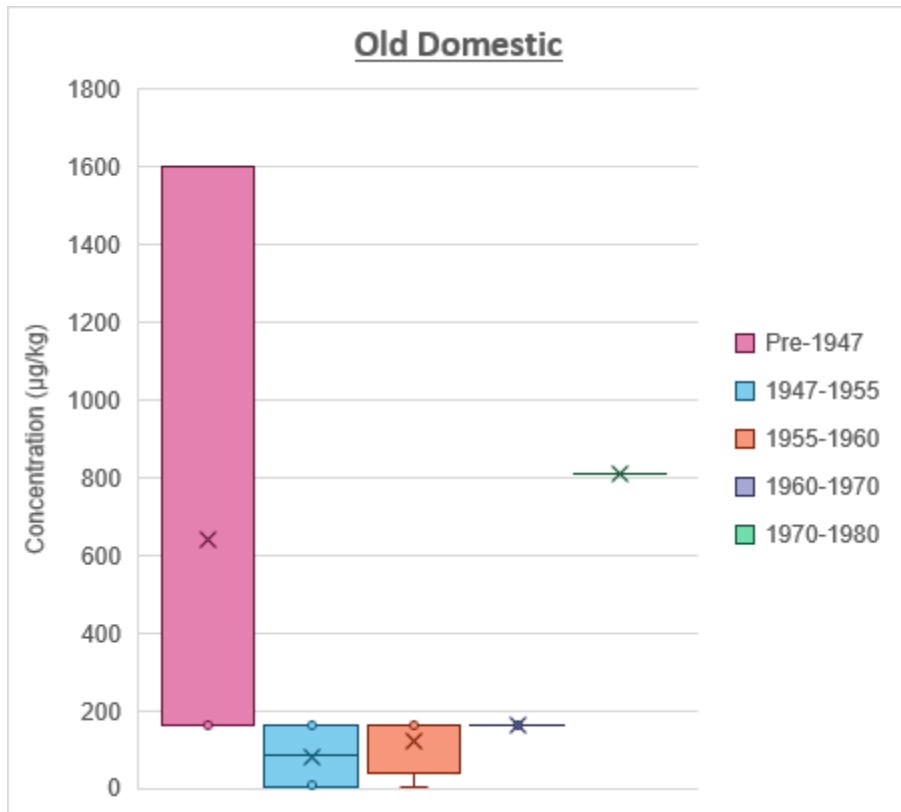
D26.1 Concentration by Era

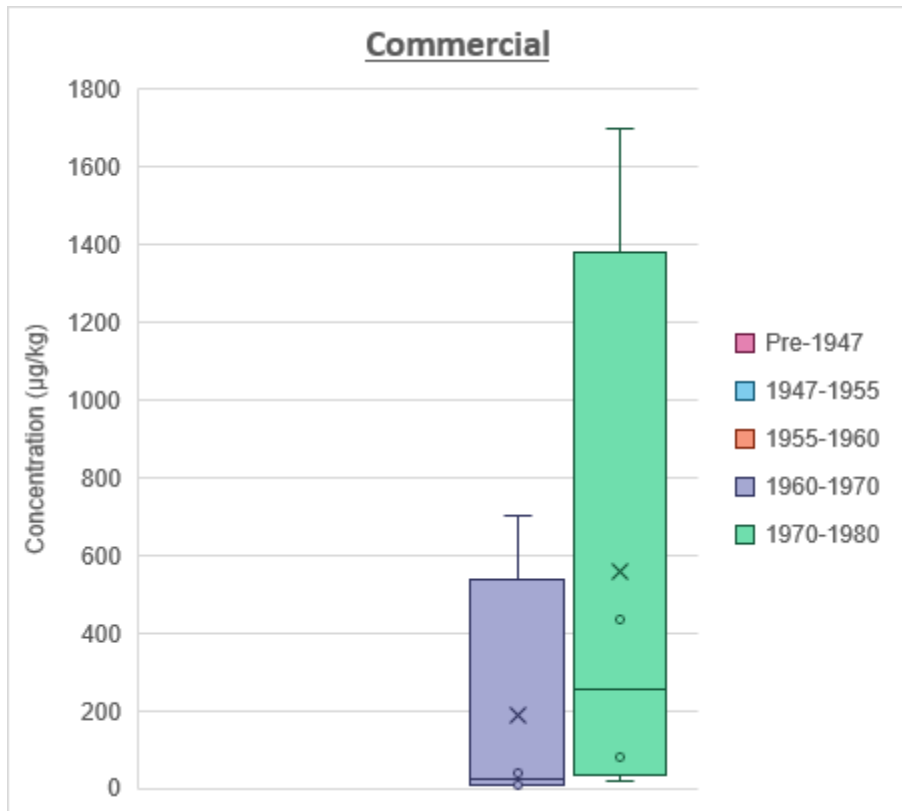
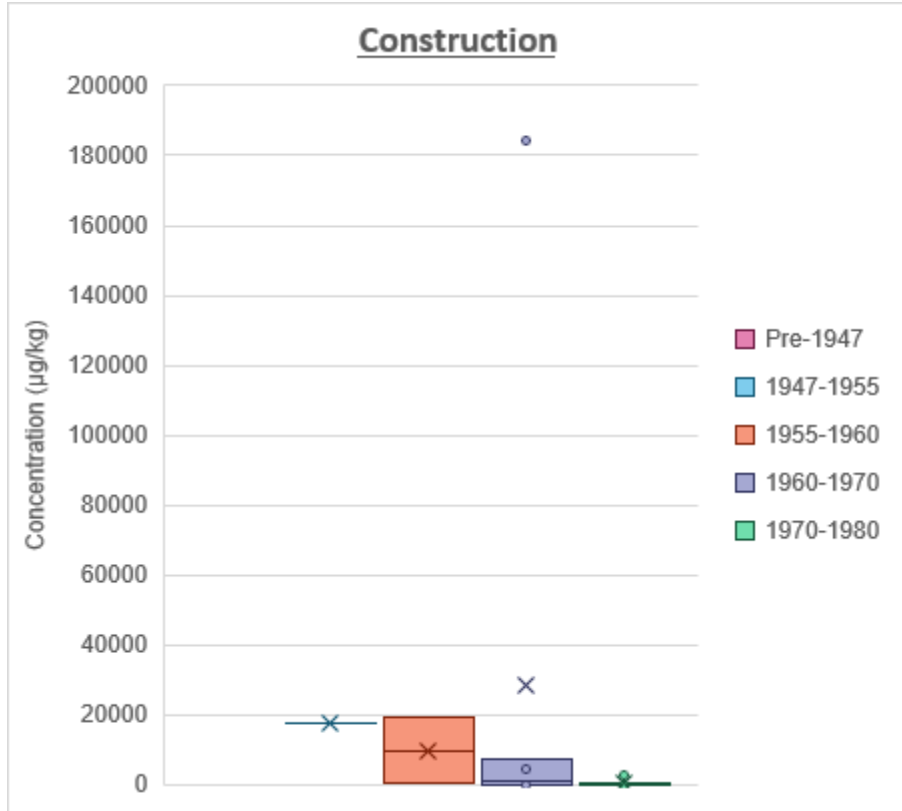


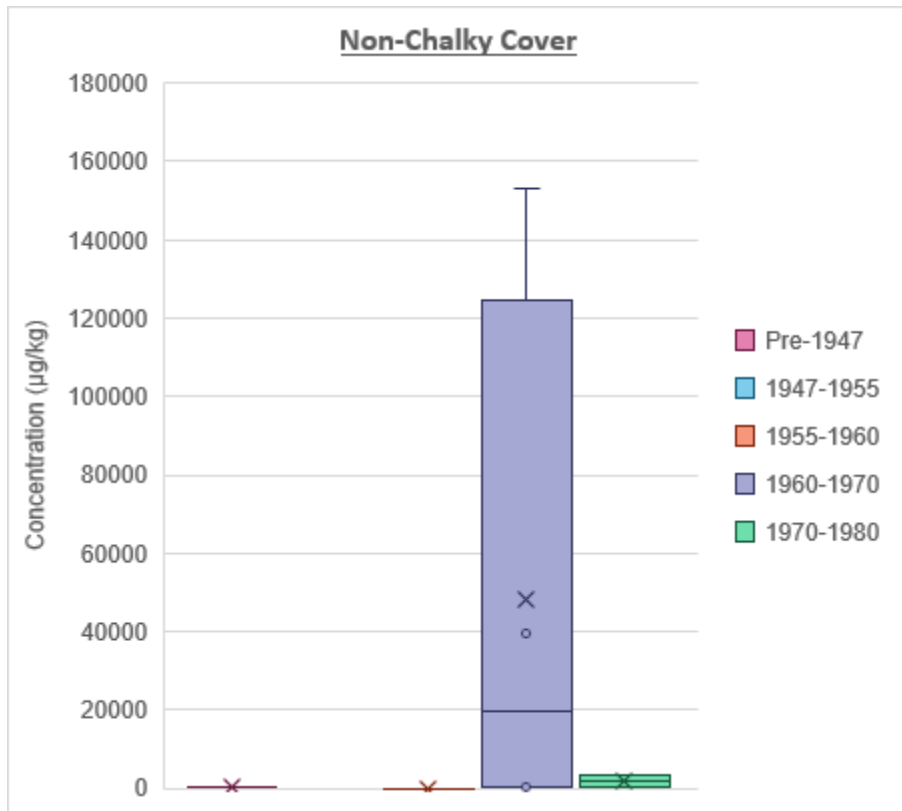
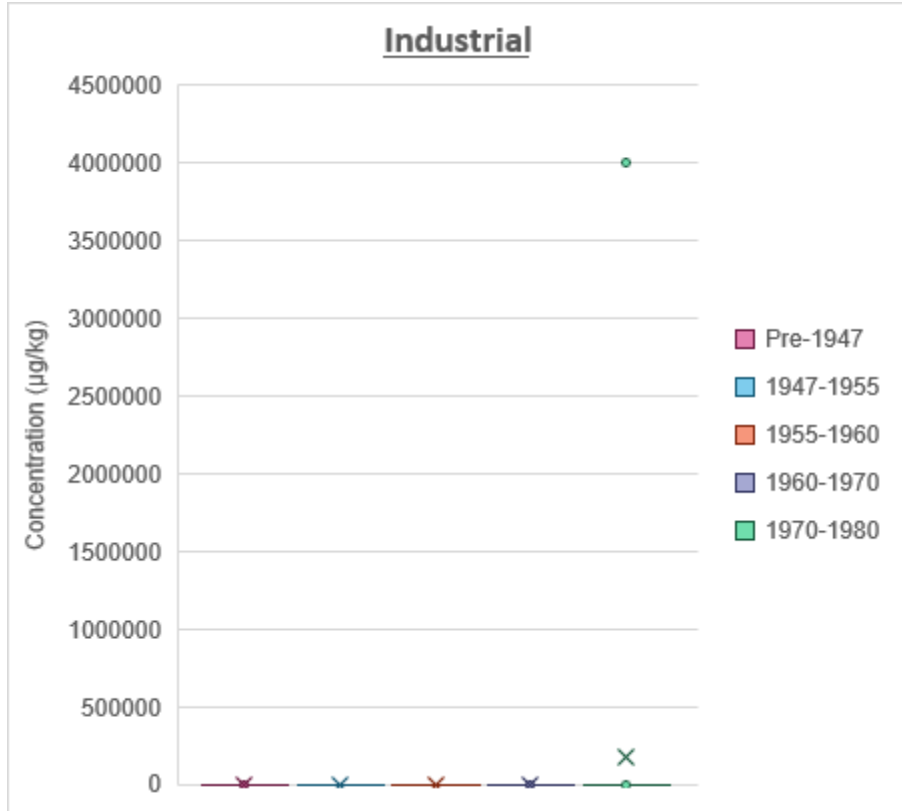
D26.2 Concentration by Waste Type

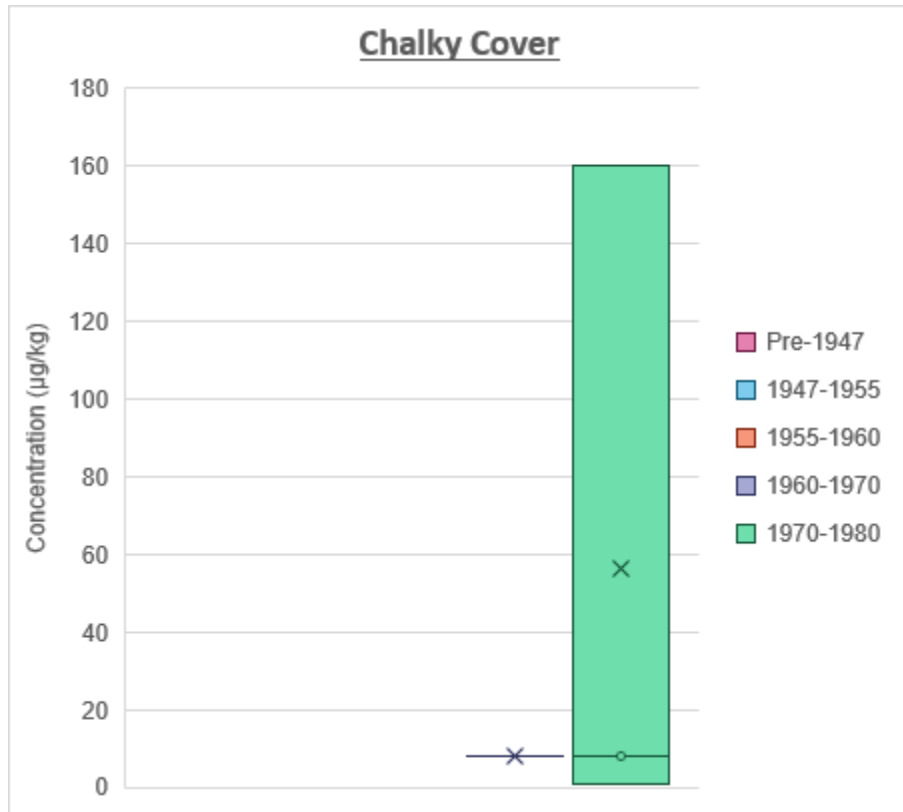


D26.3 Concentration by Waste Type and Era

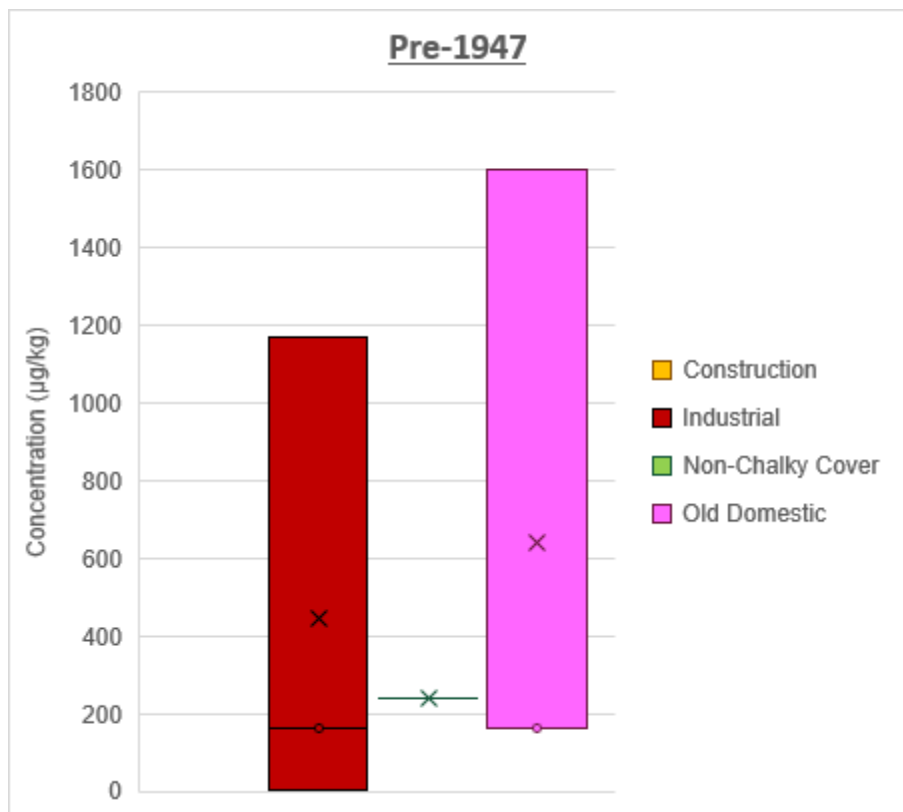


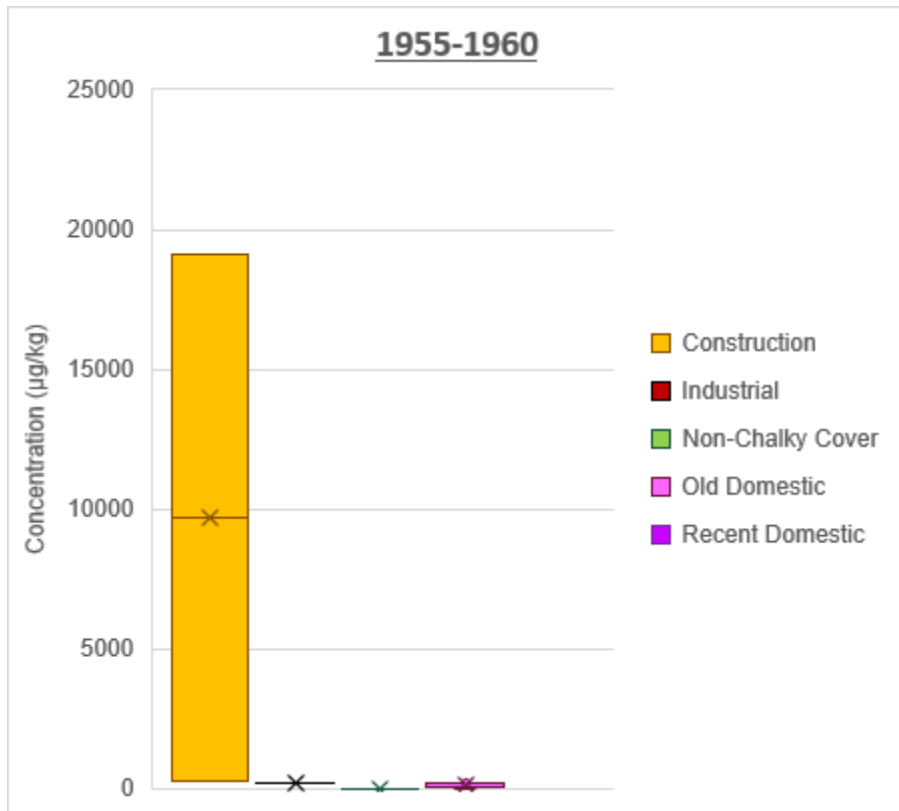
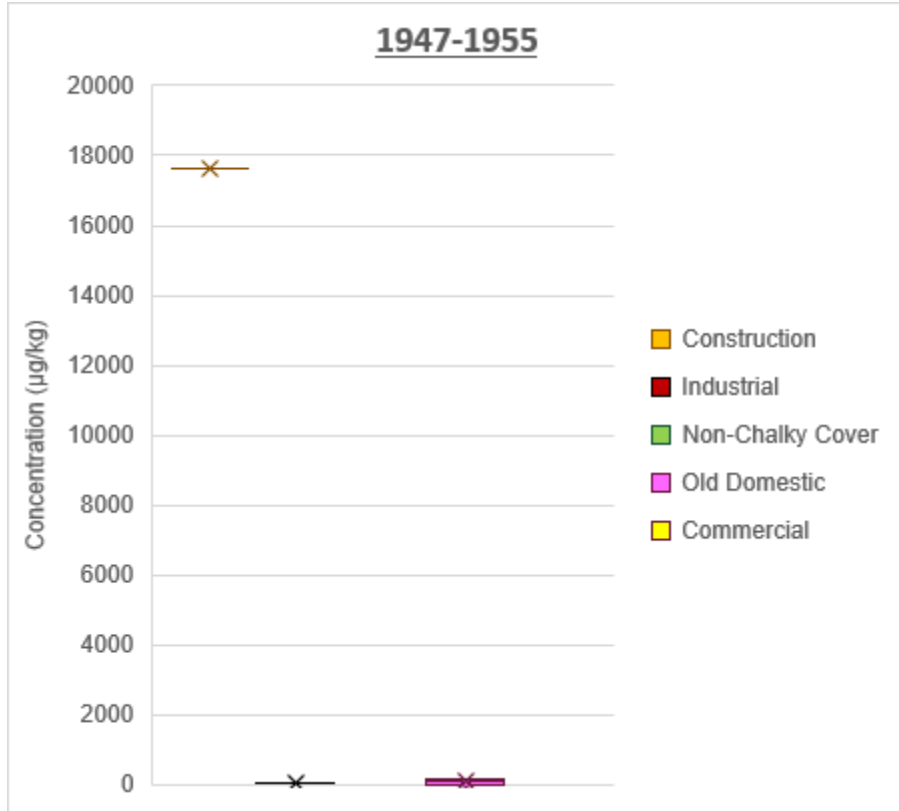


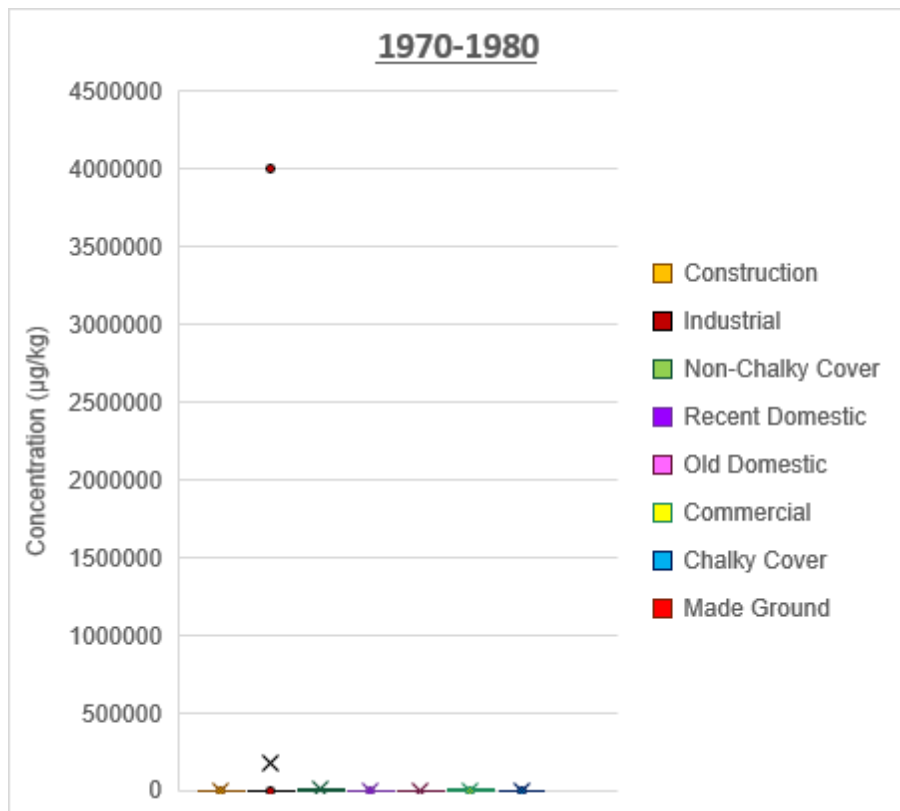
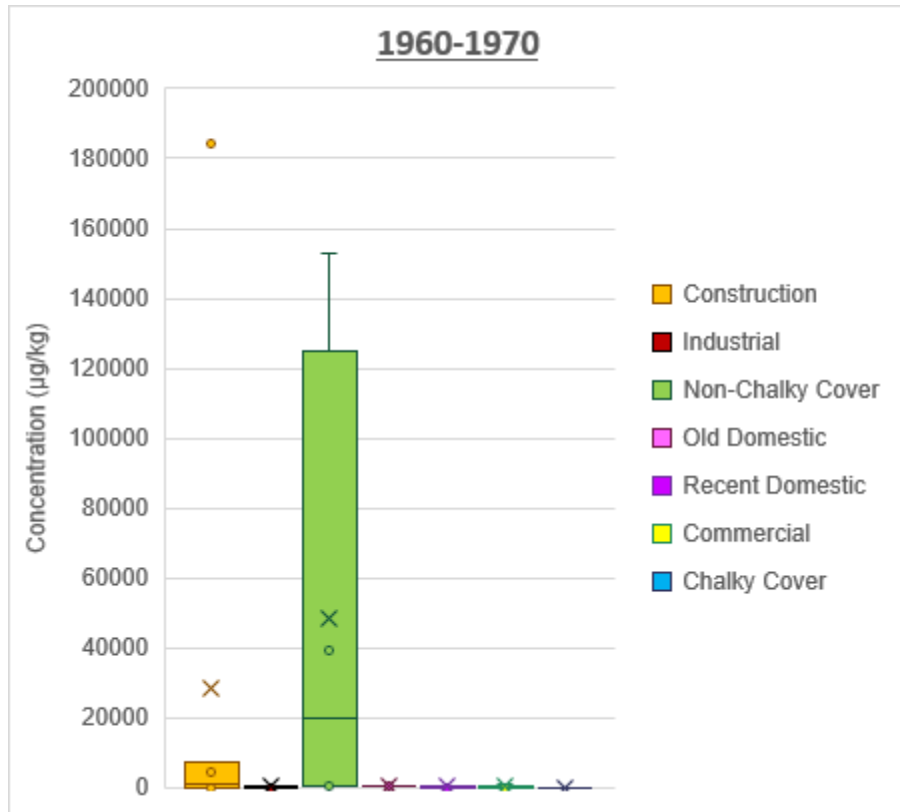




D26.4 Concentration by Era and Waste Type

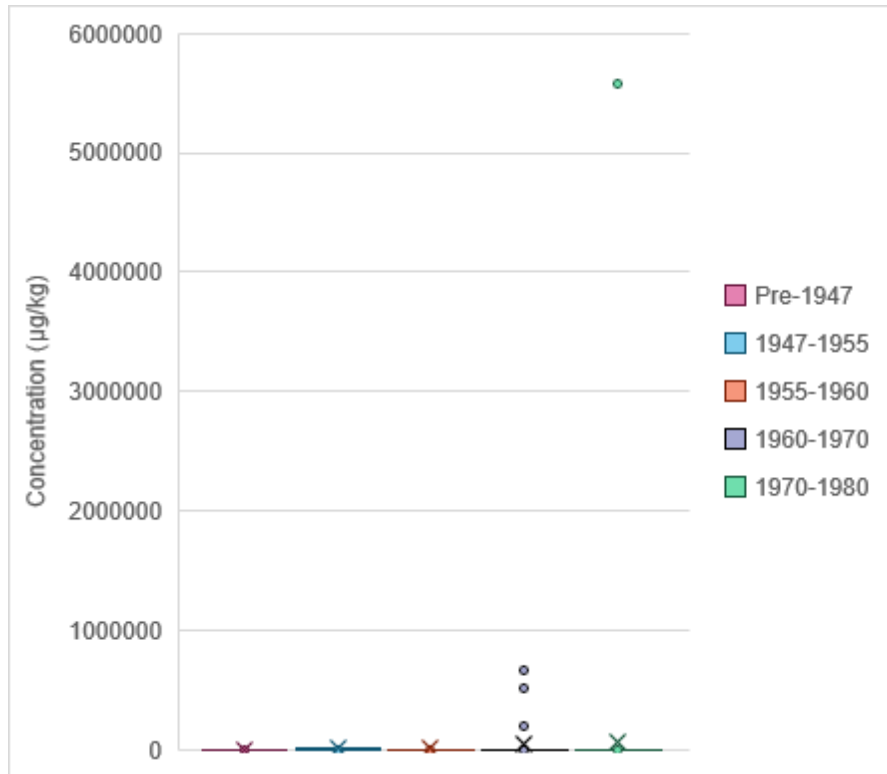




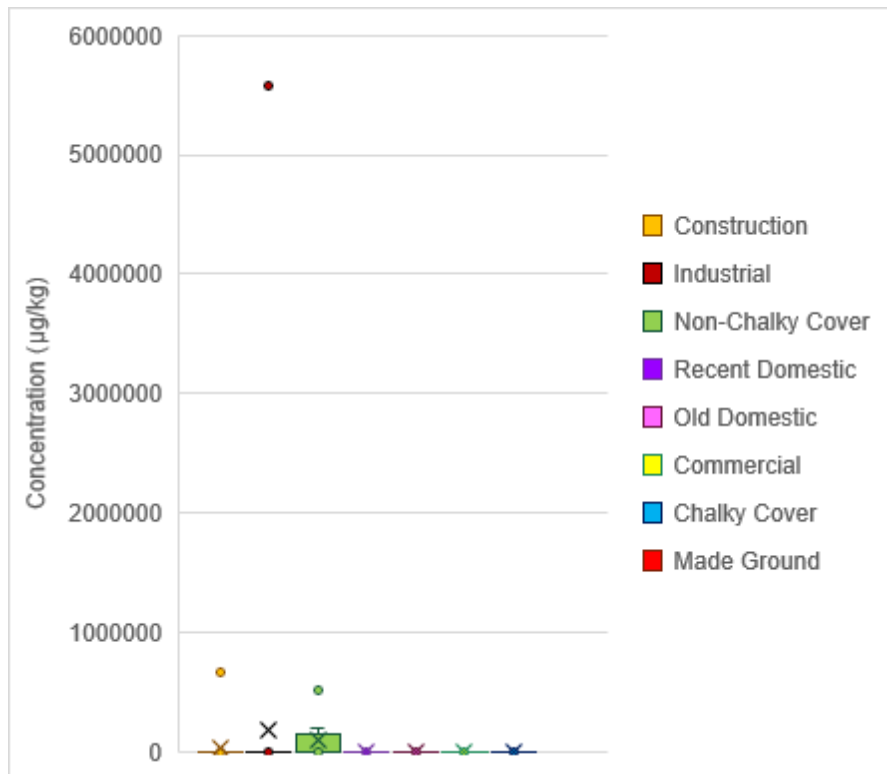


D27 1,2,4-Trimethylbenzene

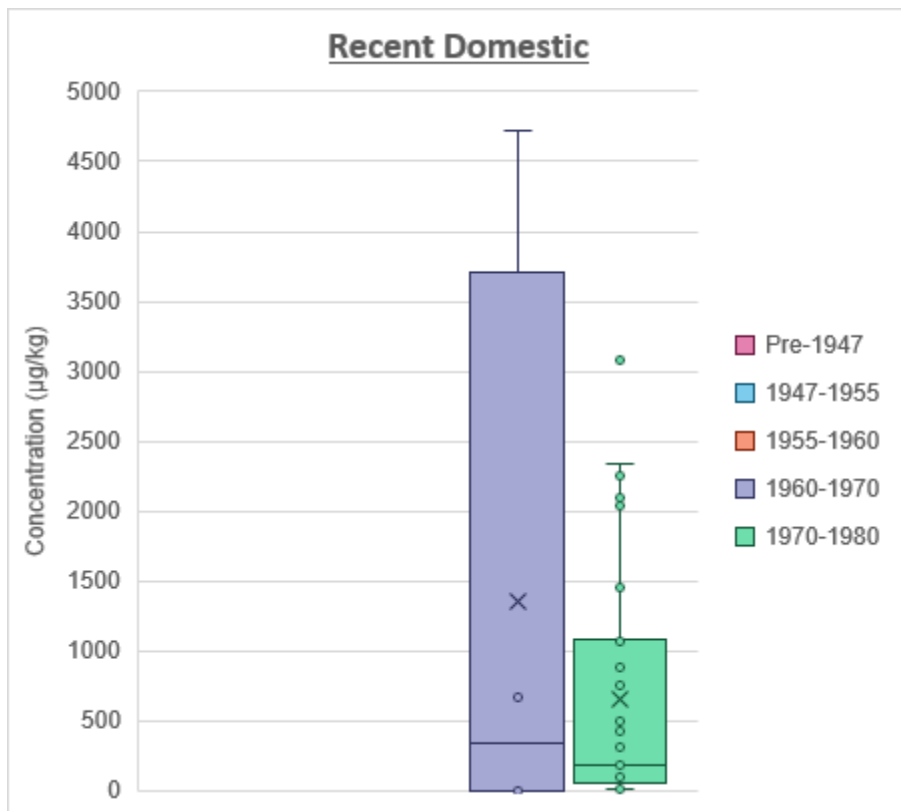
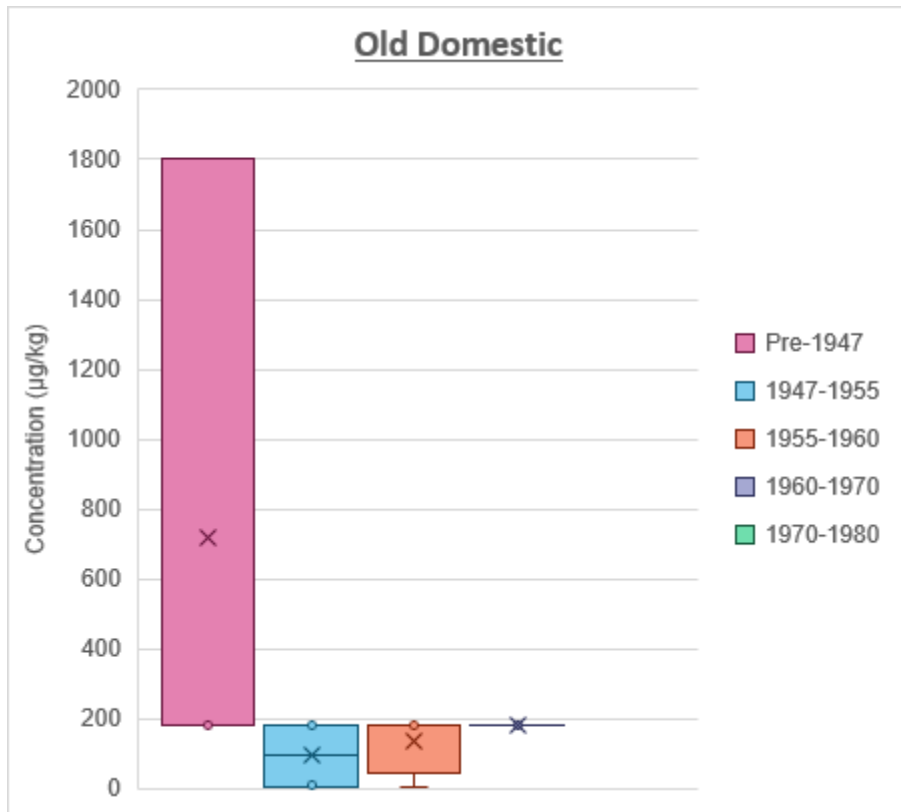
D27.1 Concentration by Era

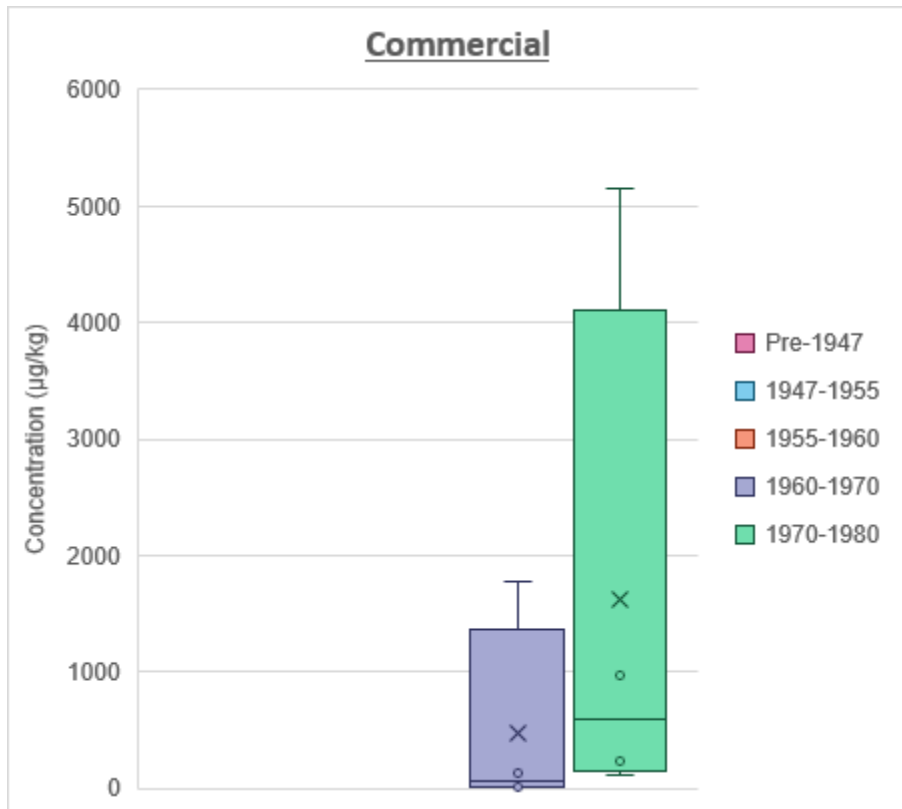
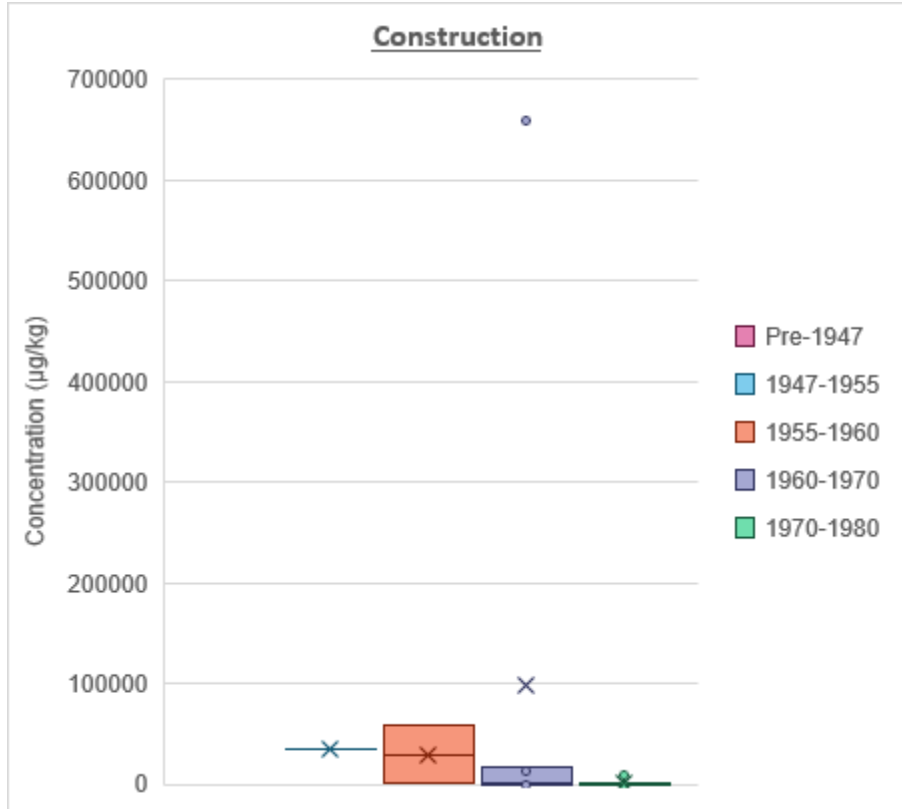


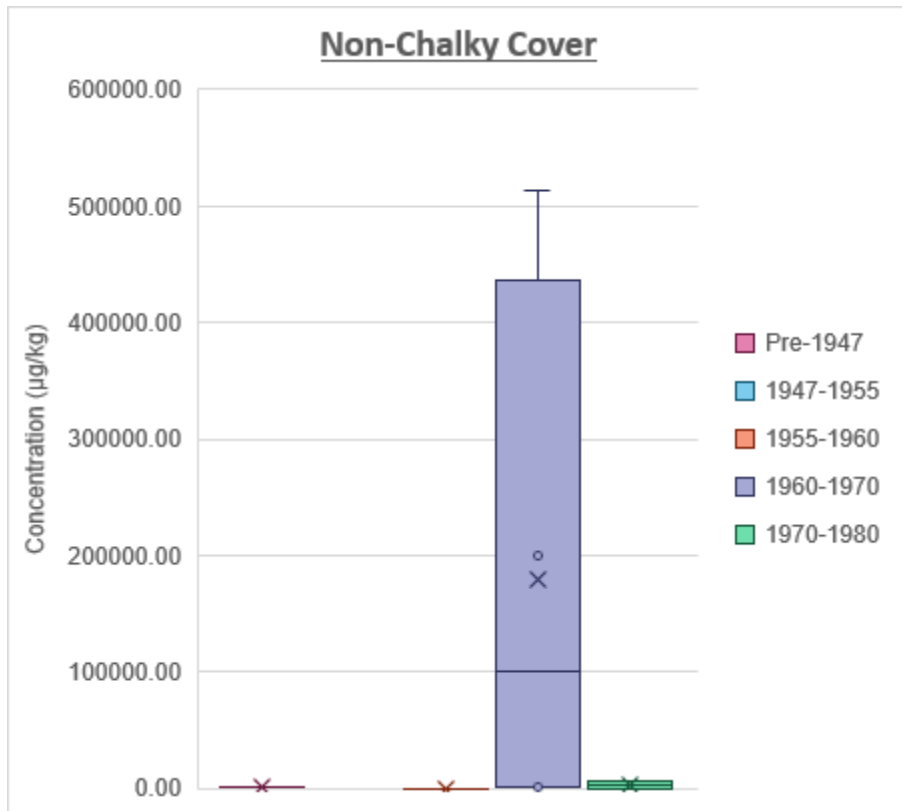
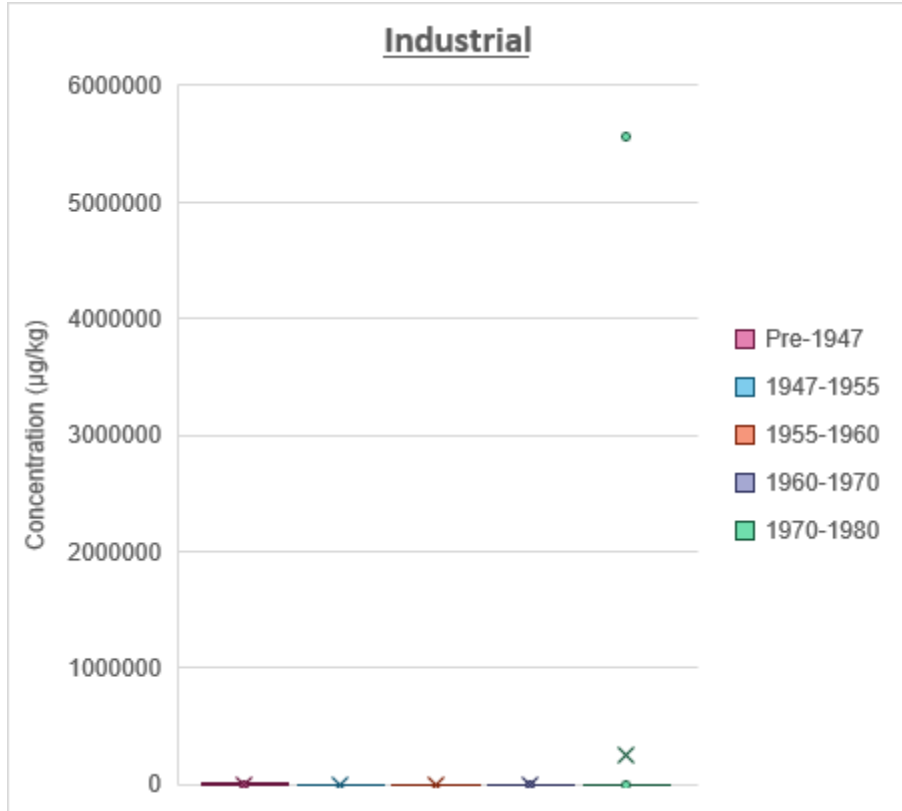
D27.2 Concentration by Waste Type

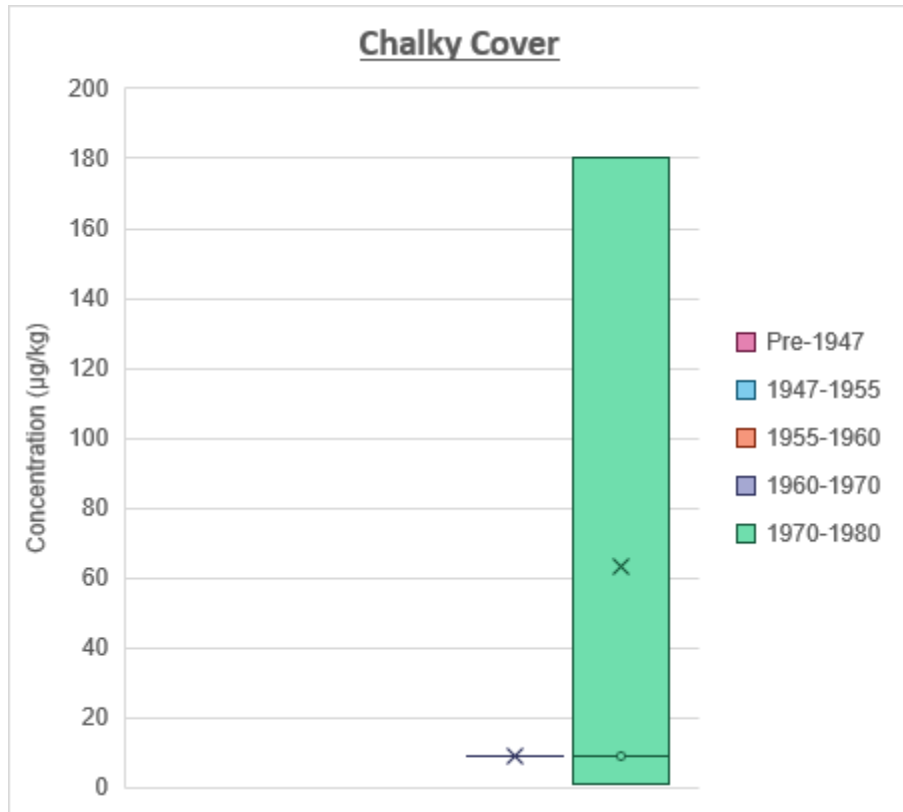


D27.3 Concentration by Waste Type and Era

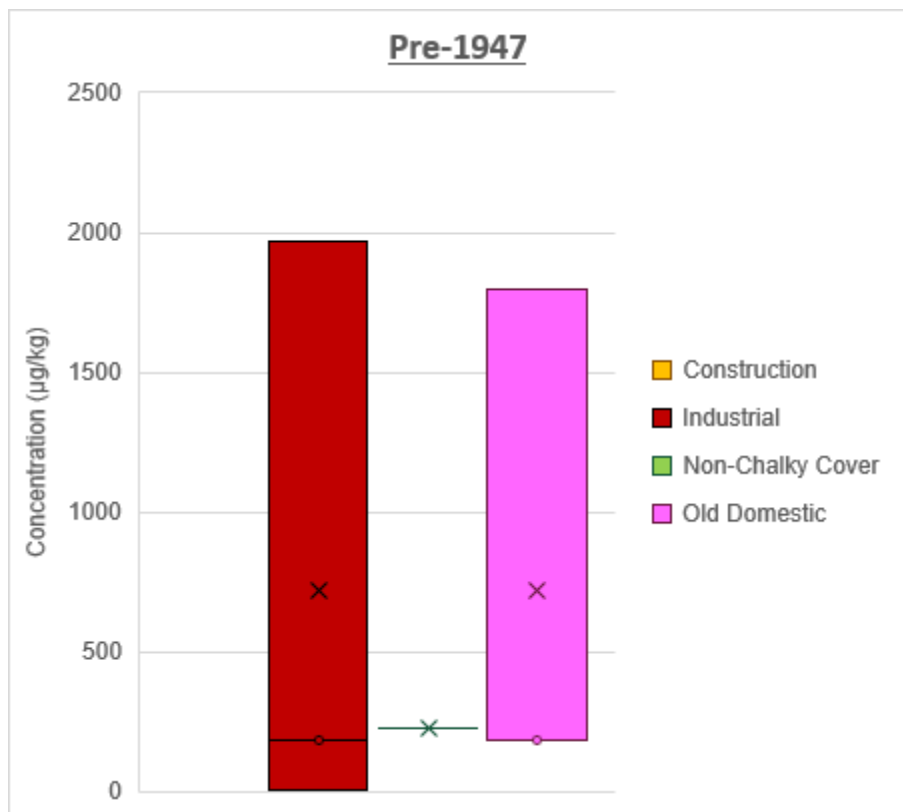


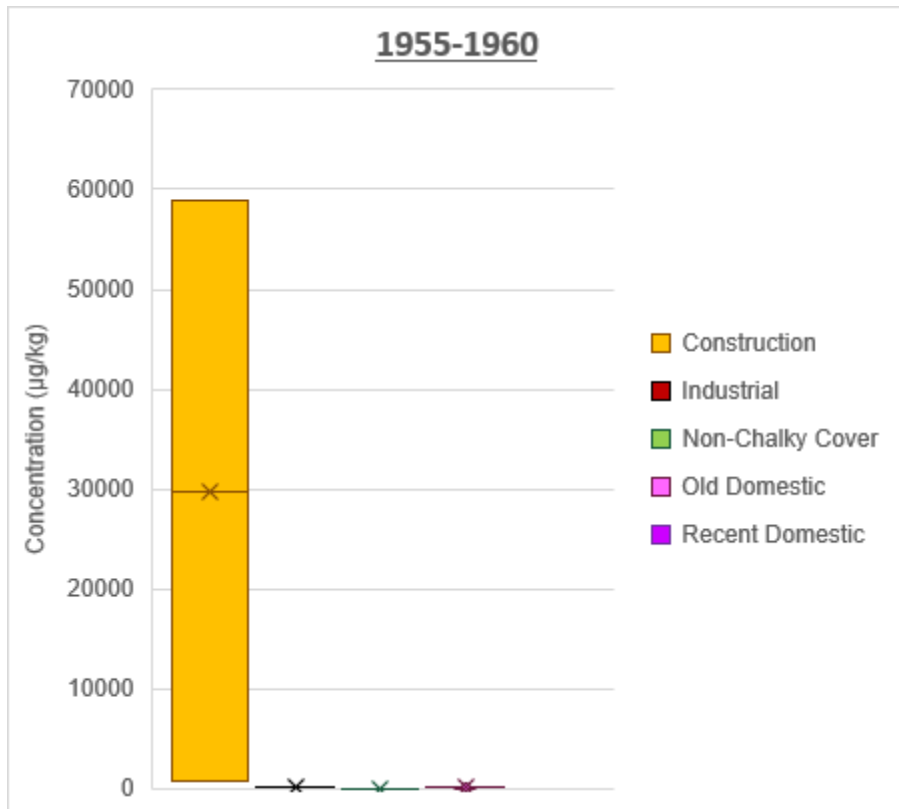
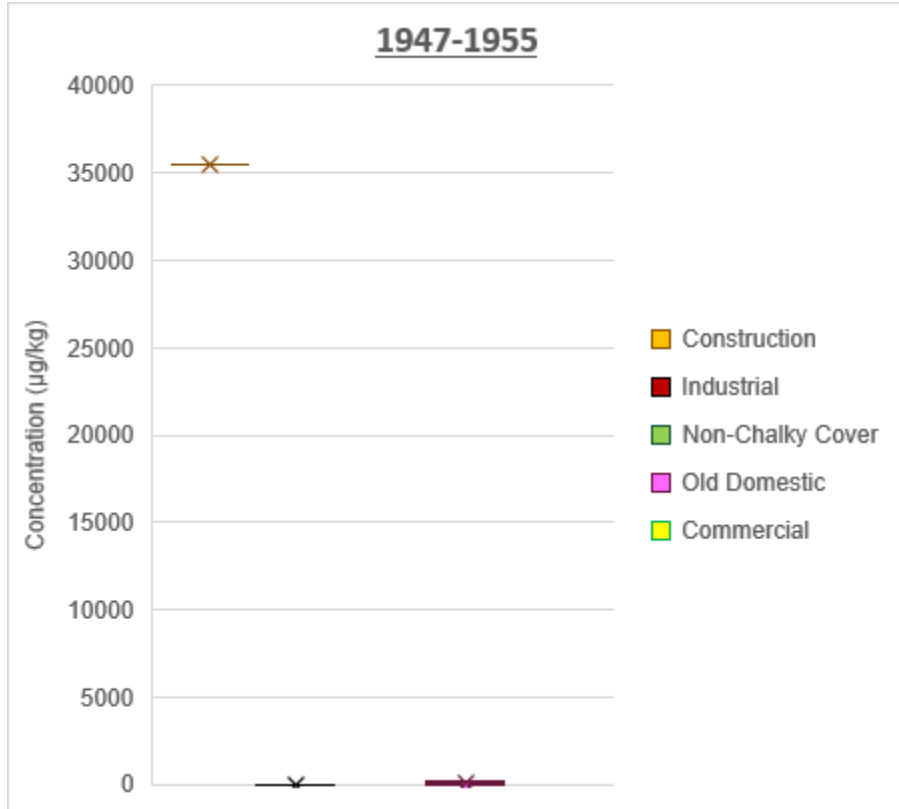


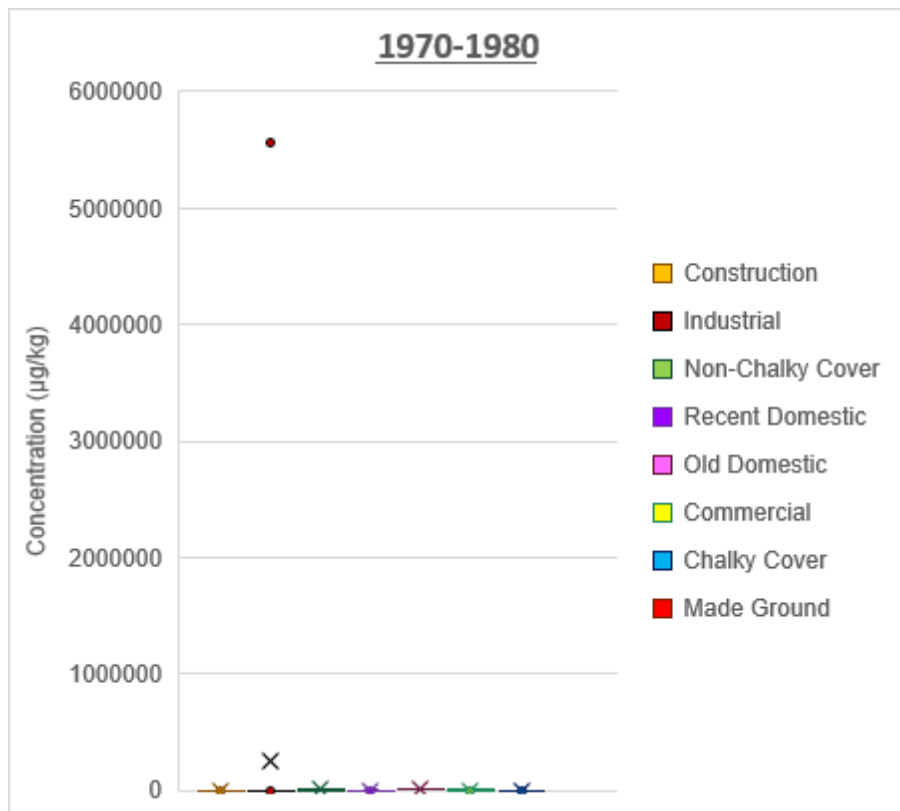
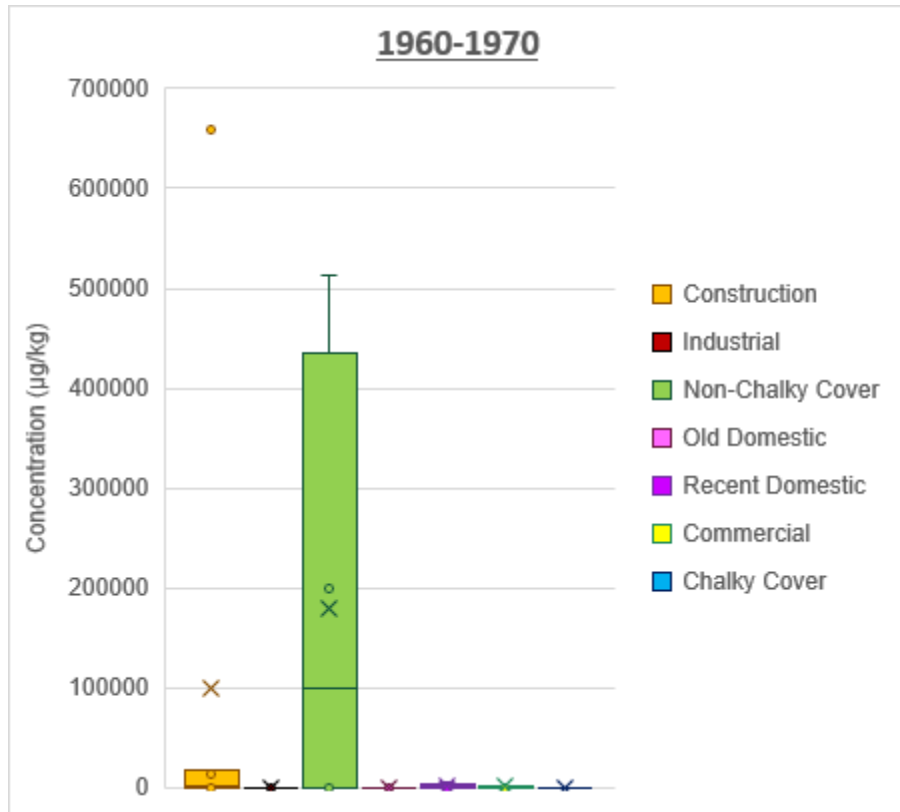




D27.4 Concentration by Era and Waste Type

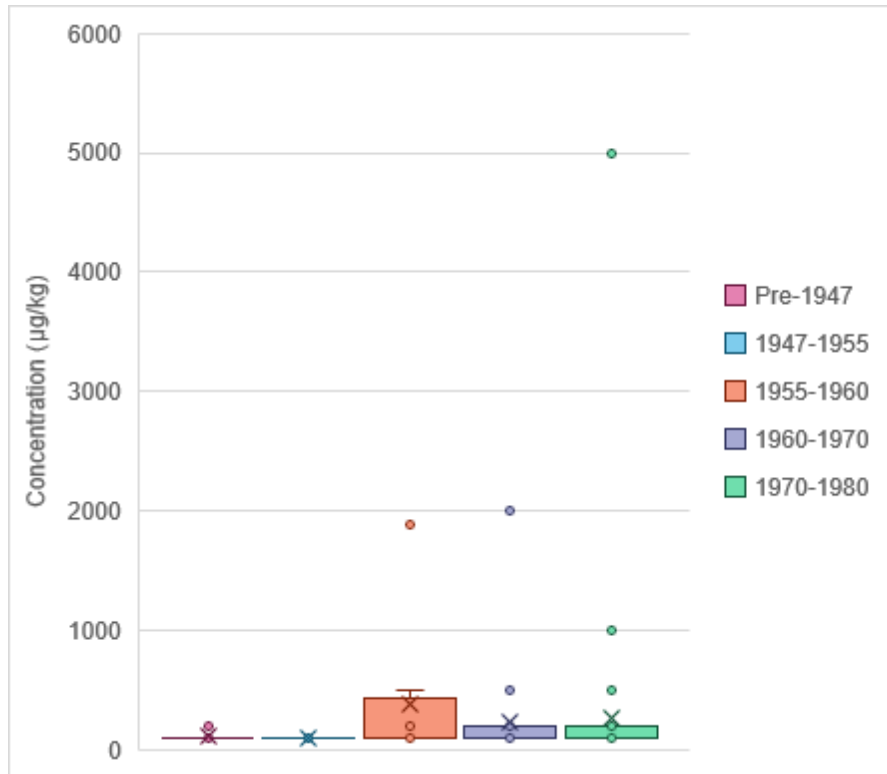




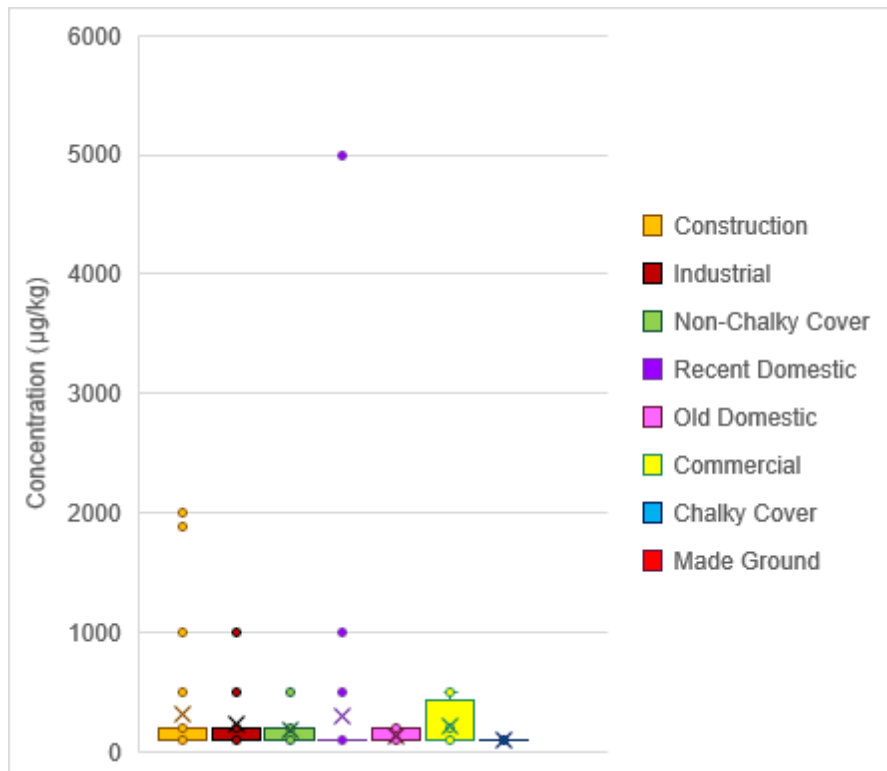


D28 Bis(2-chloroethoxy)methane

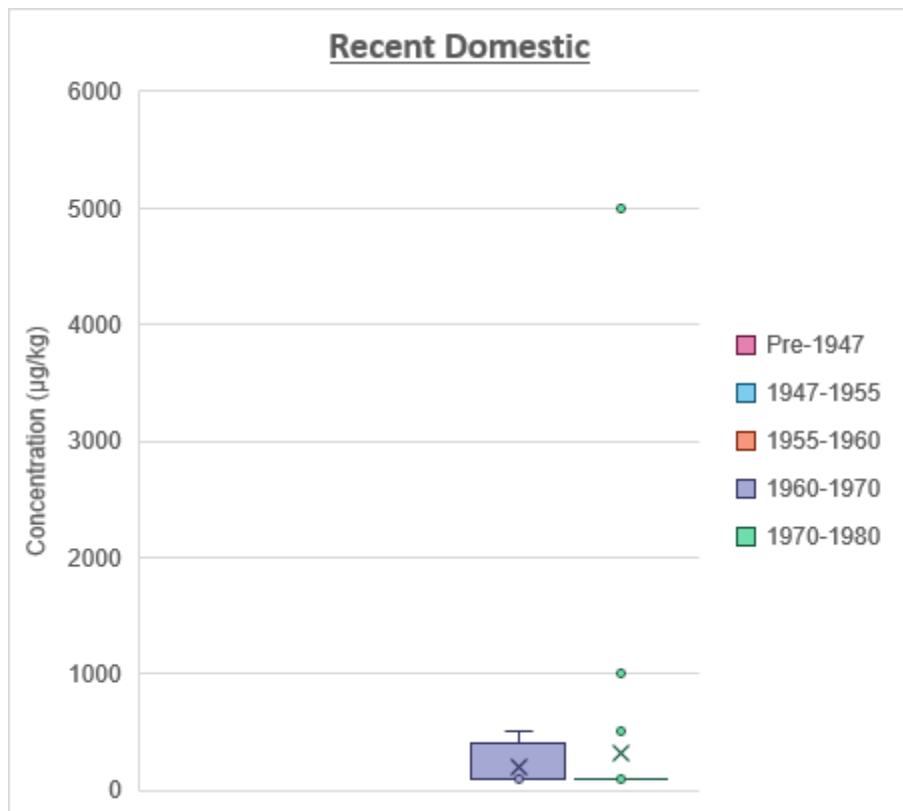
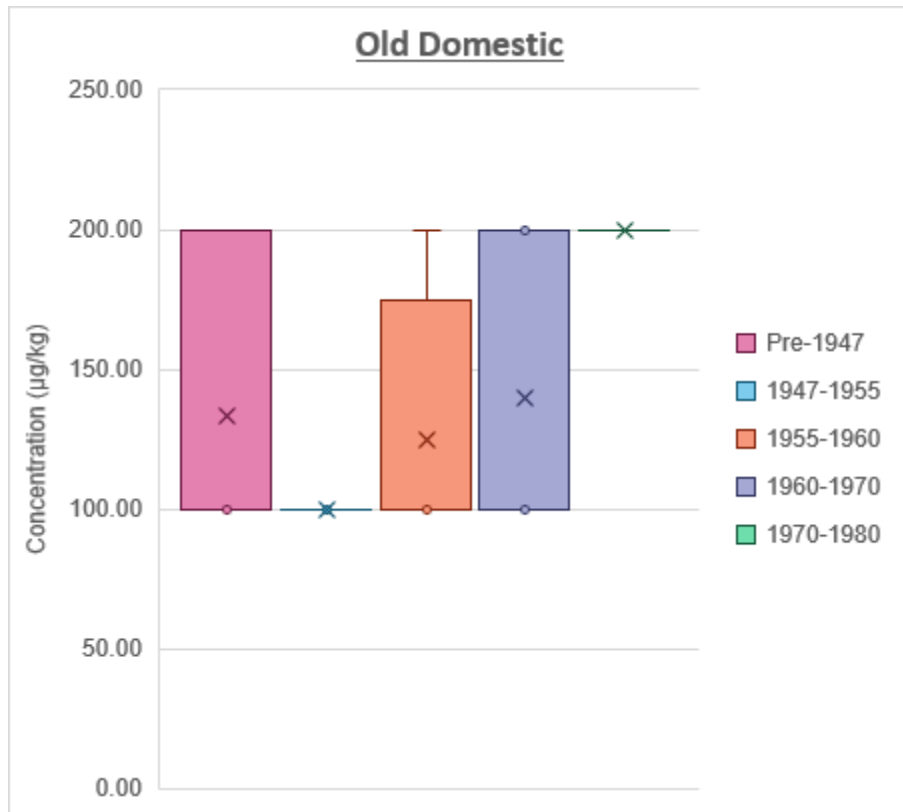
D28.1 Concentration by Era

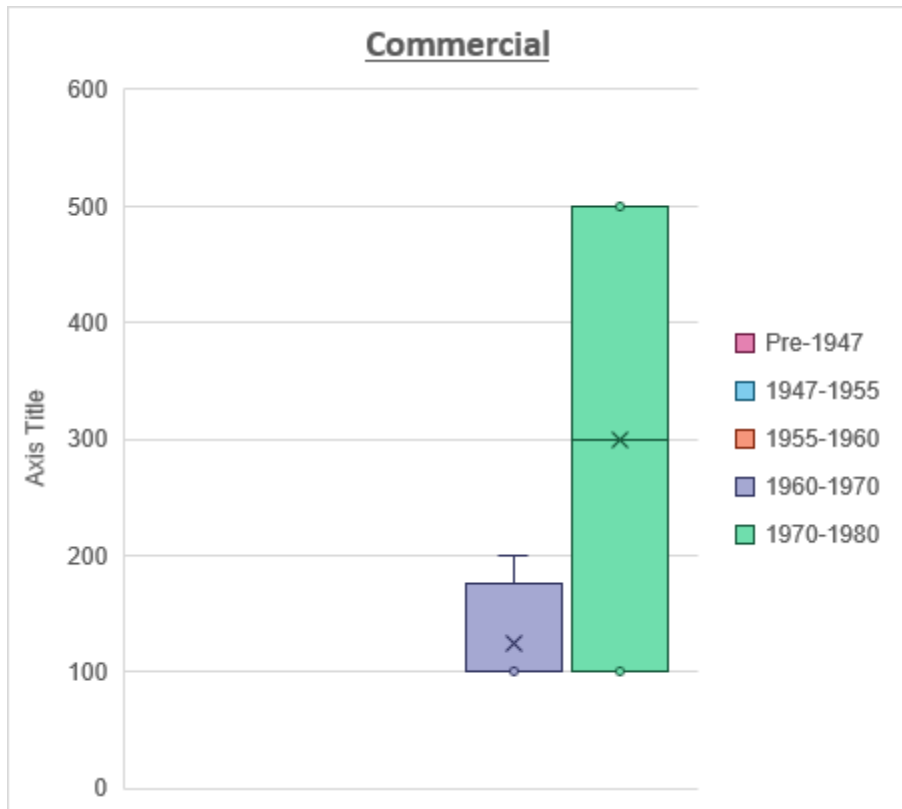
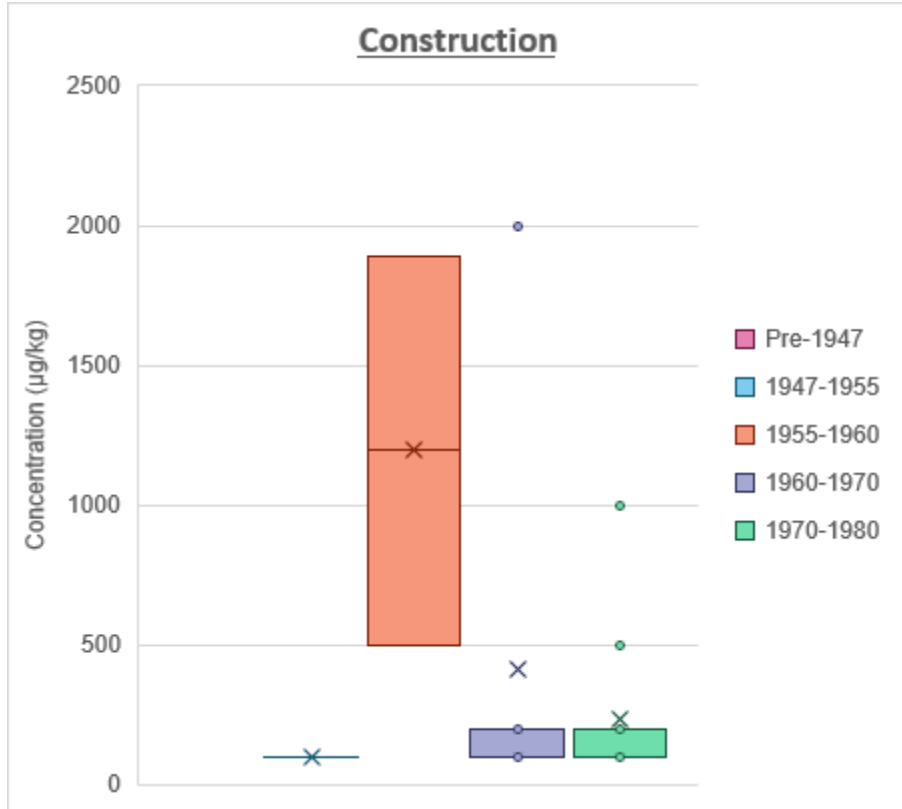


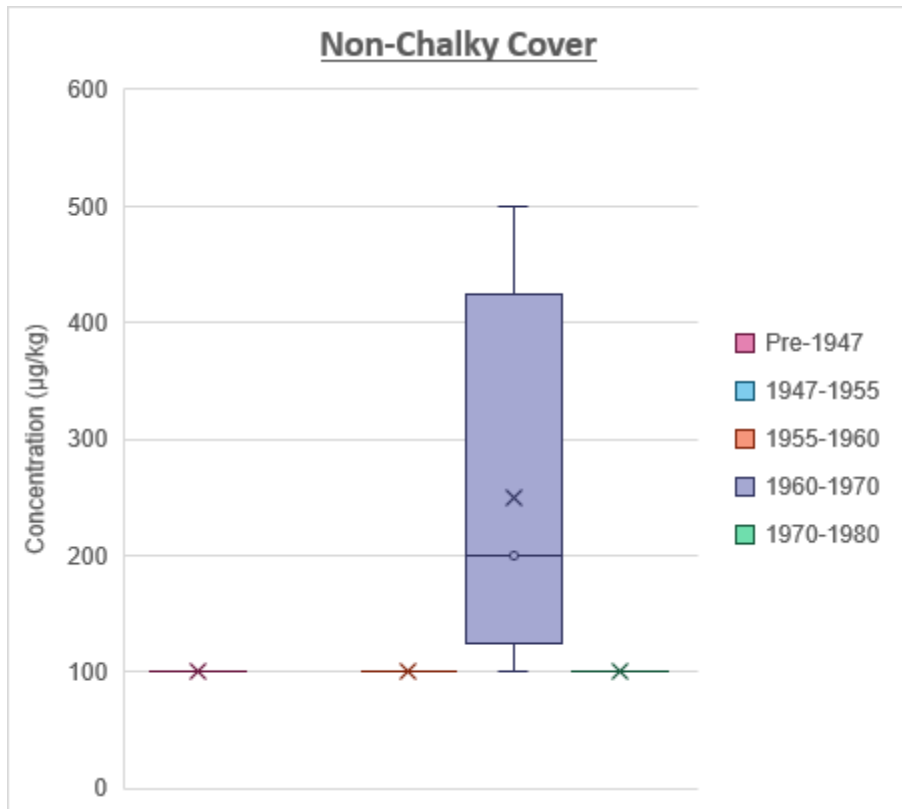
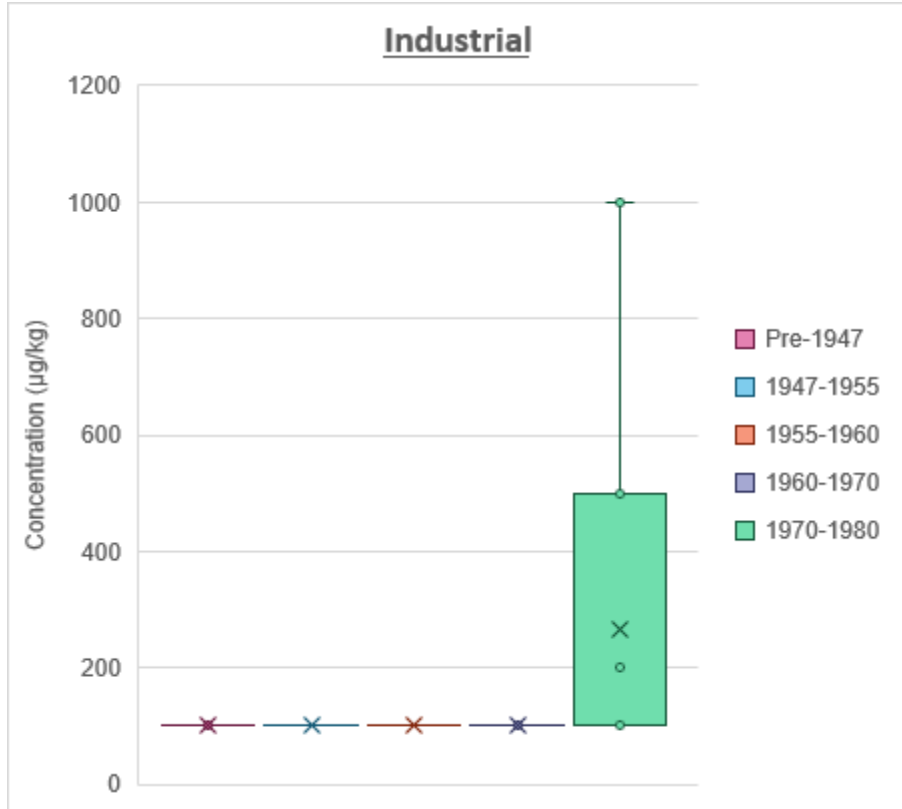
D28.2 Concentration by Waste Type

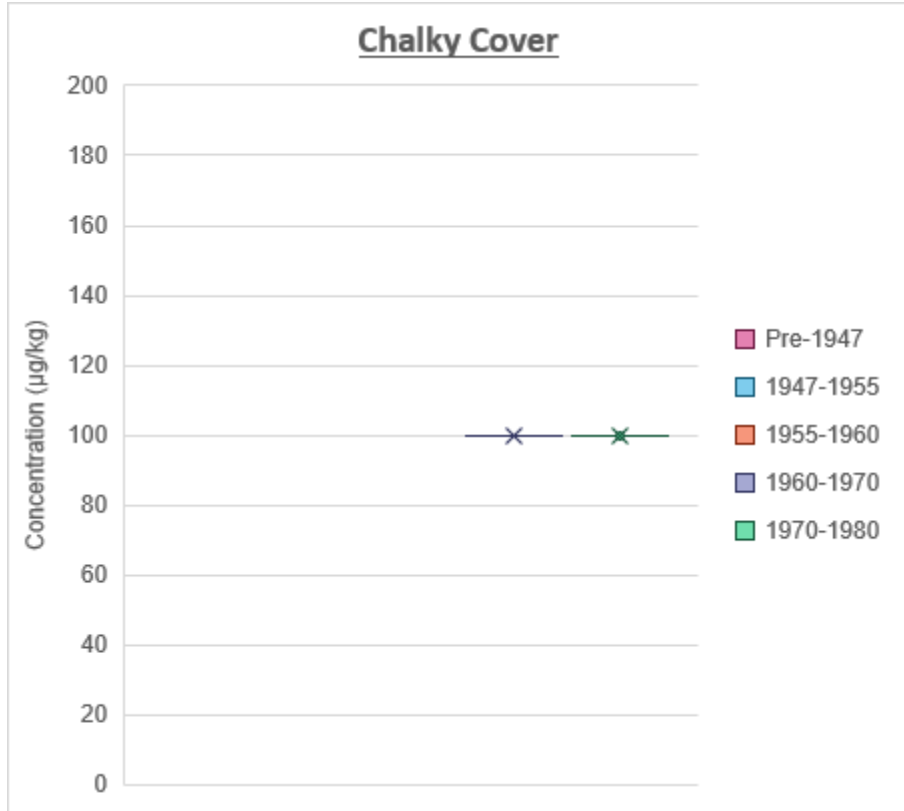


D28.3 Concentration by Waste Type and Era

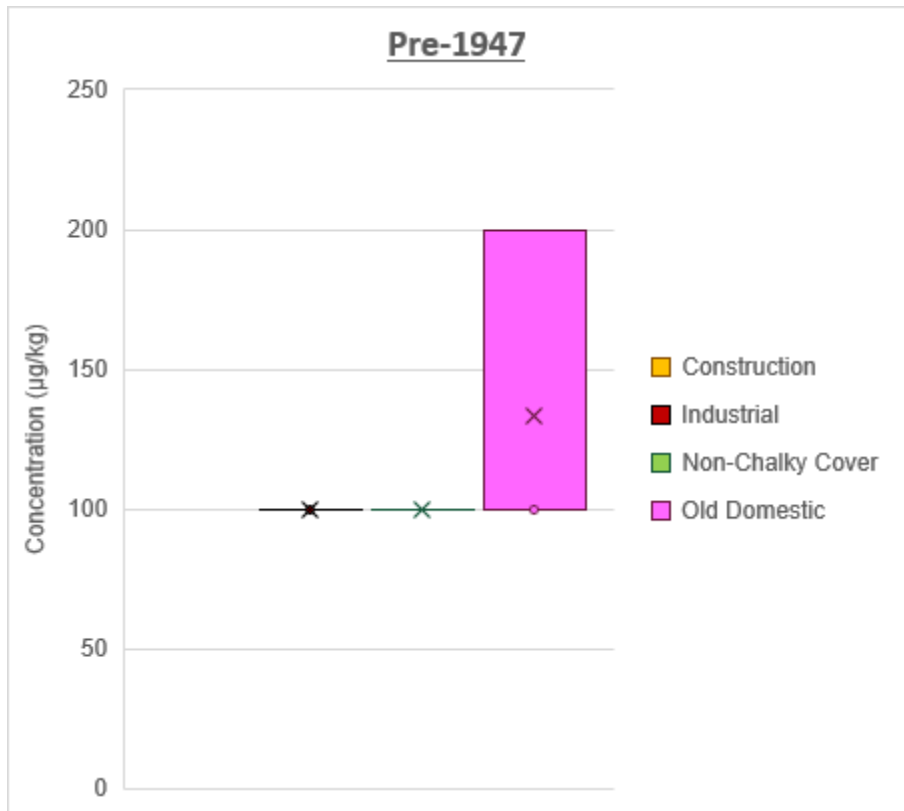


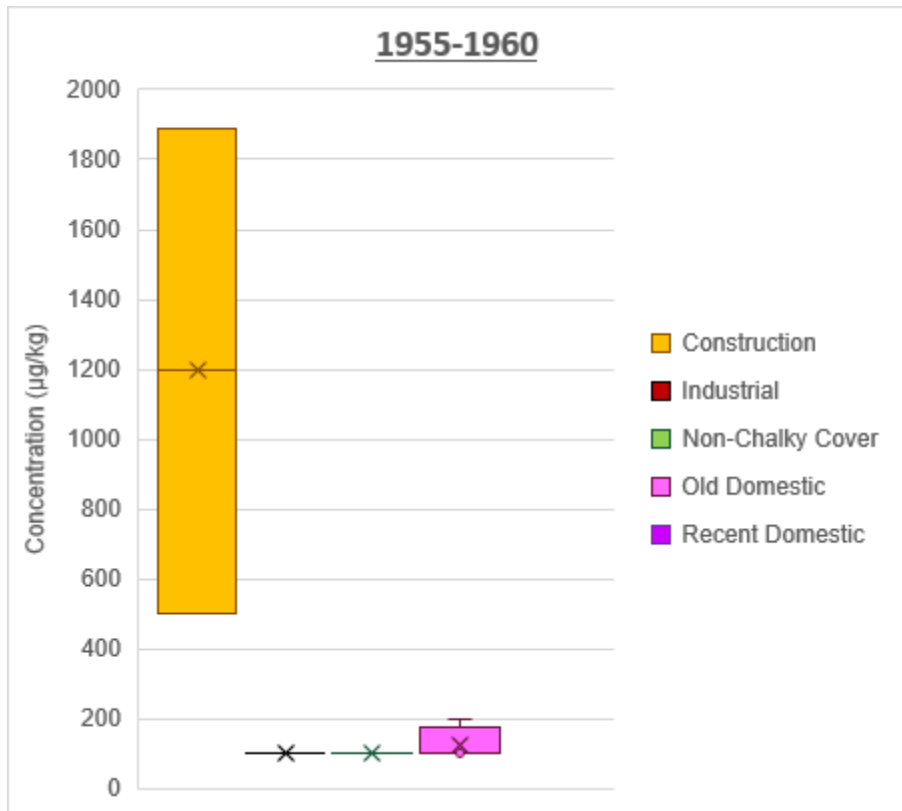
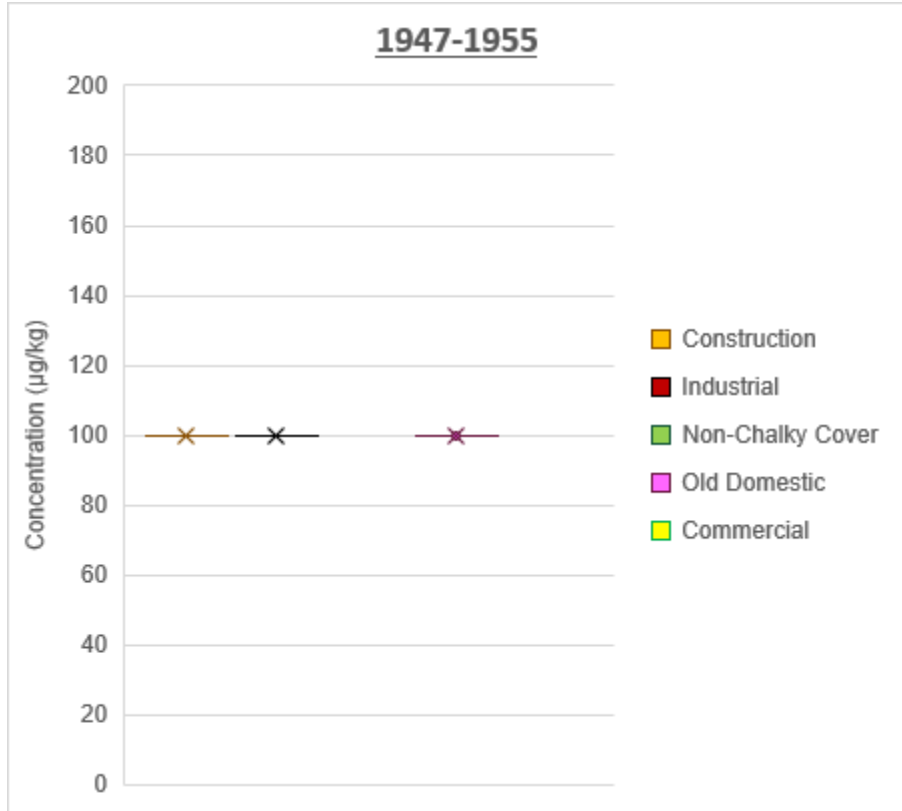


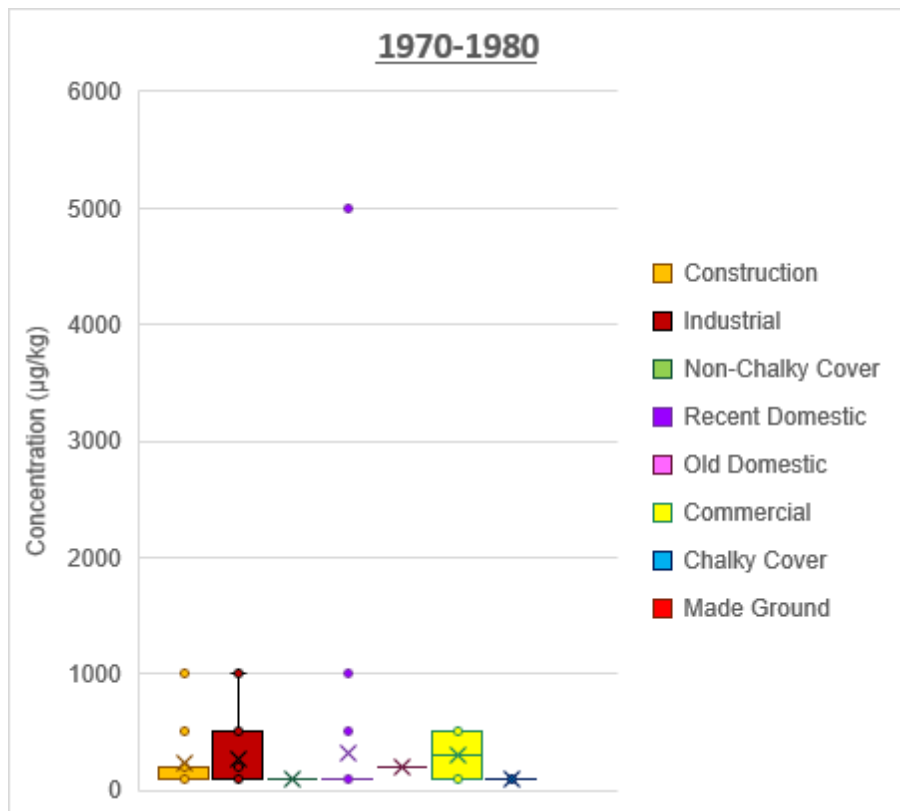
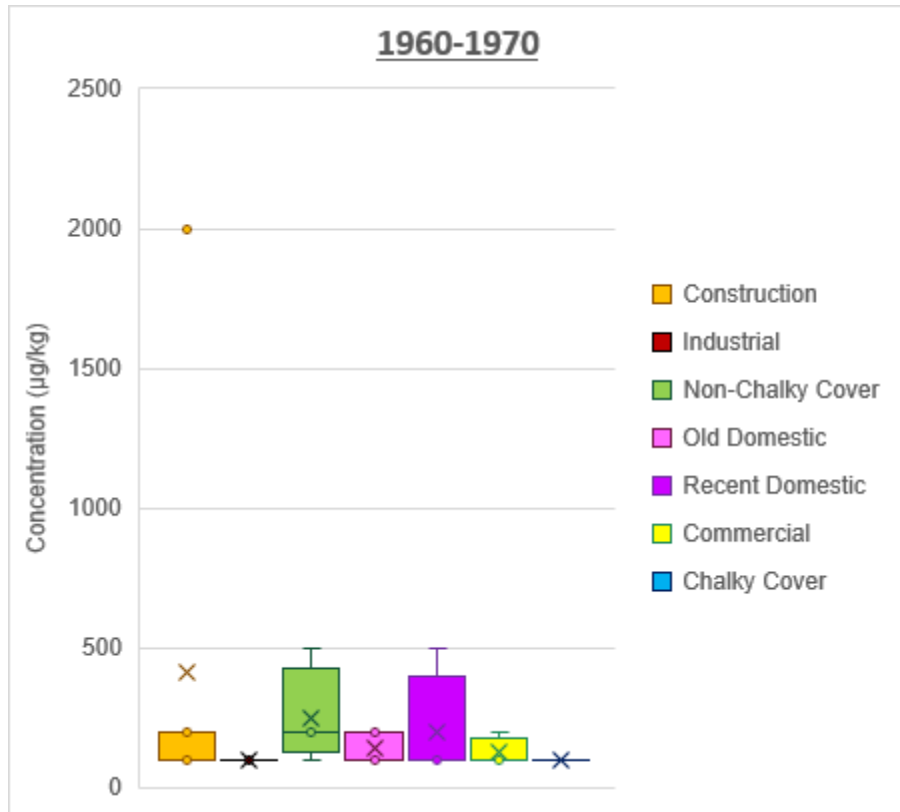




D28.4 Concentration by Era and Waste Type

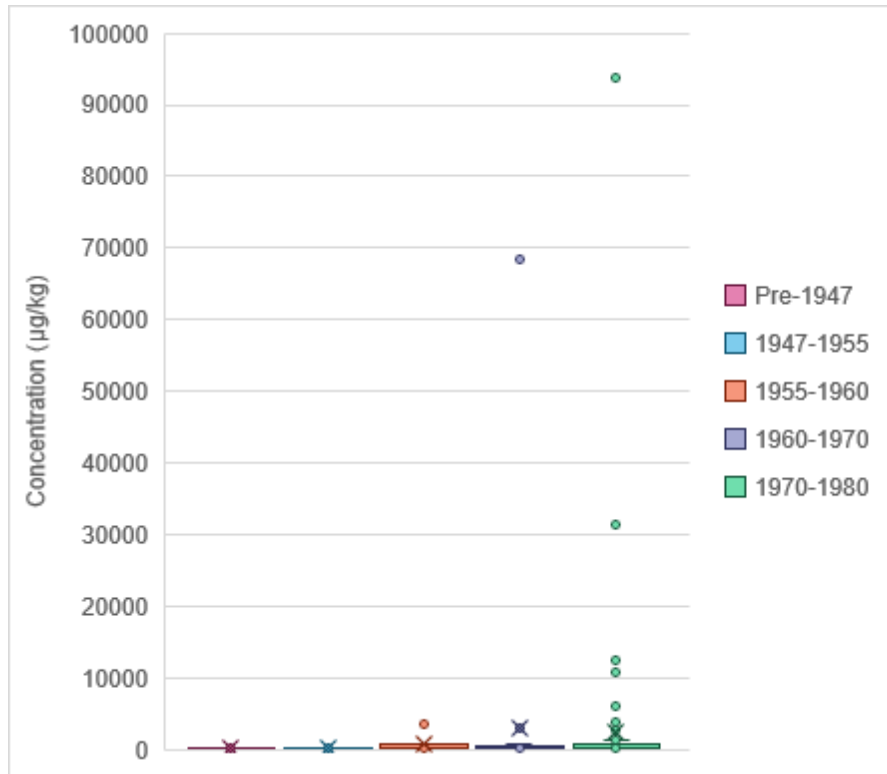




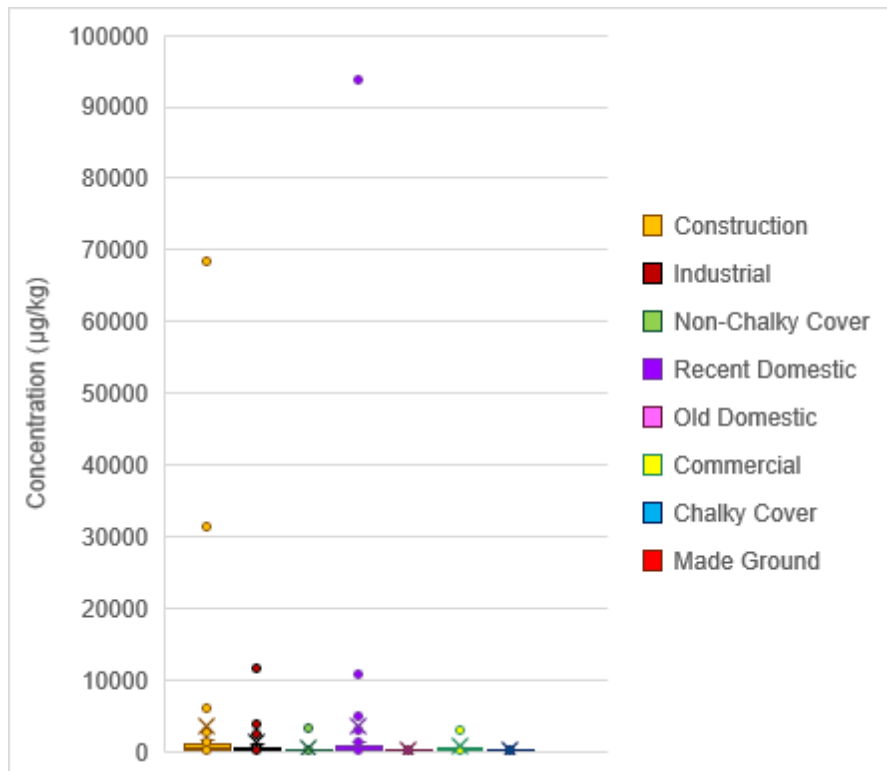


D29 Dibenzofuran

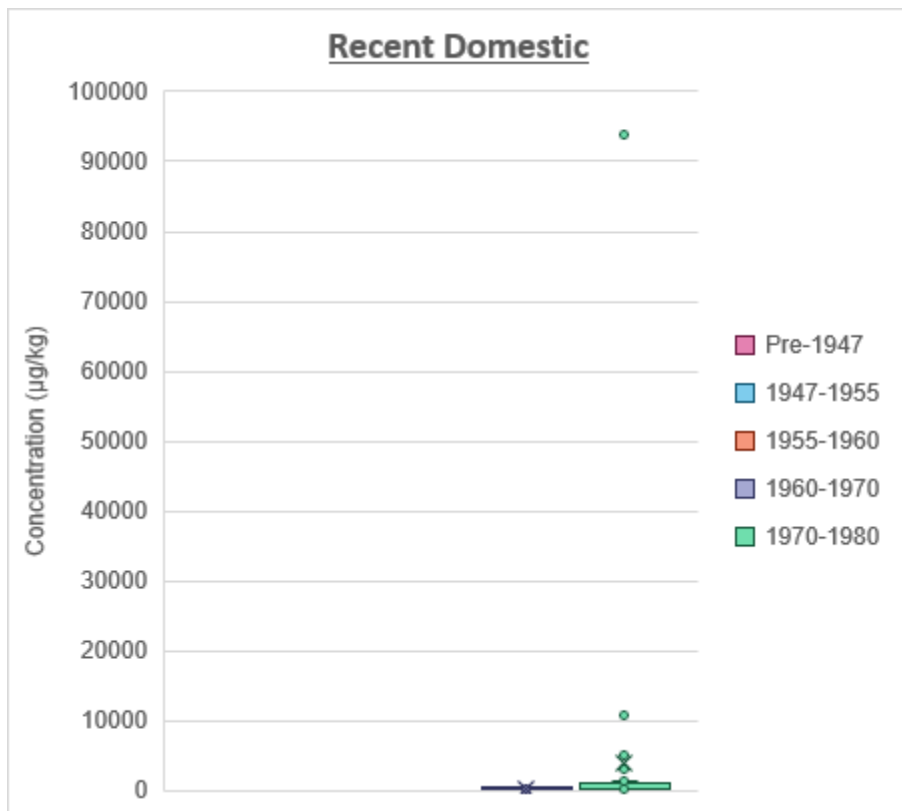
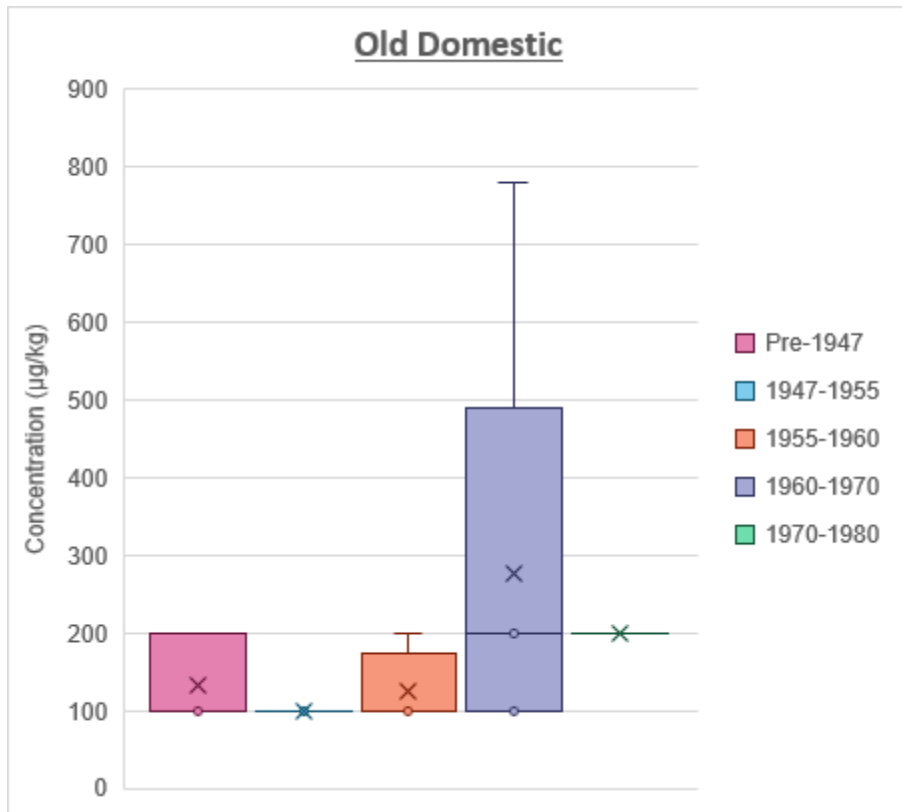
D29.1 Concentration by Era

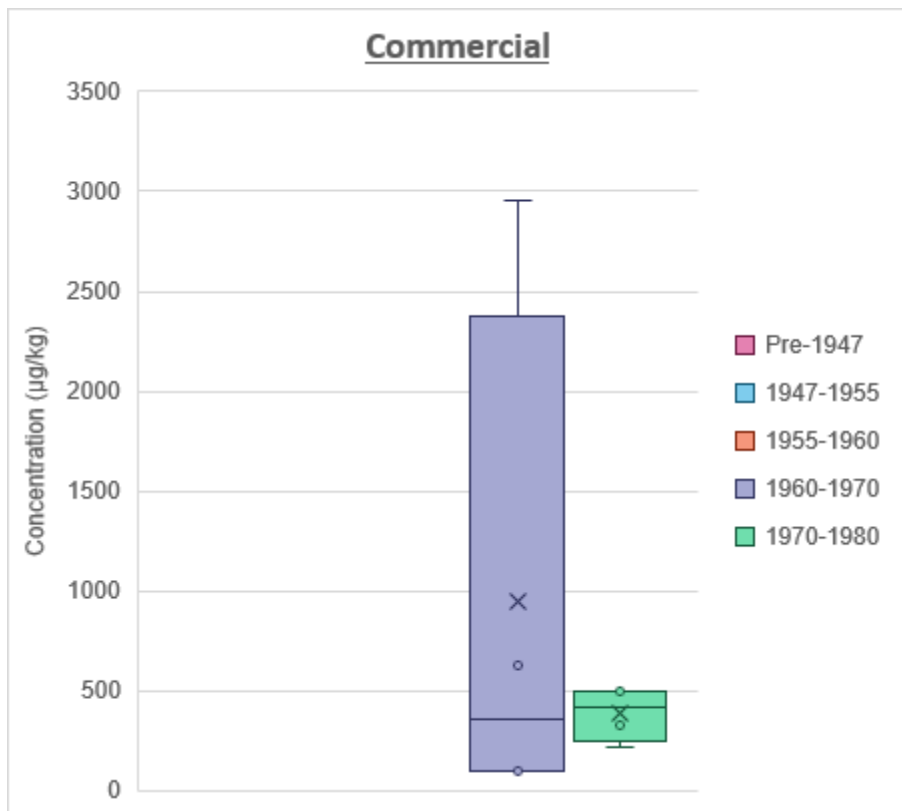
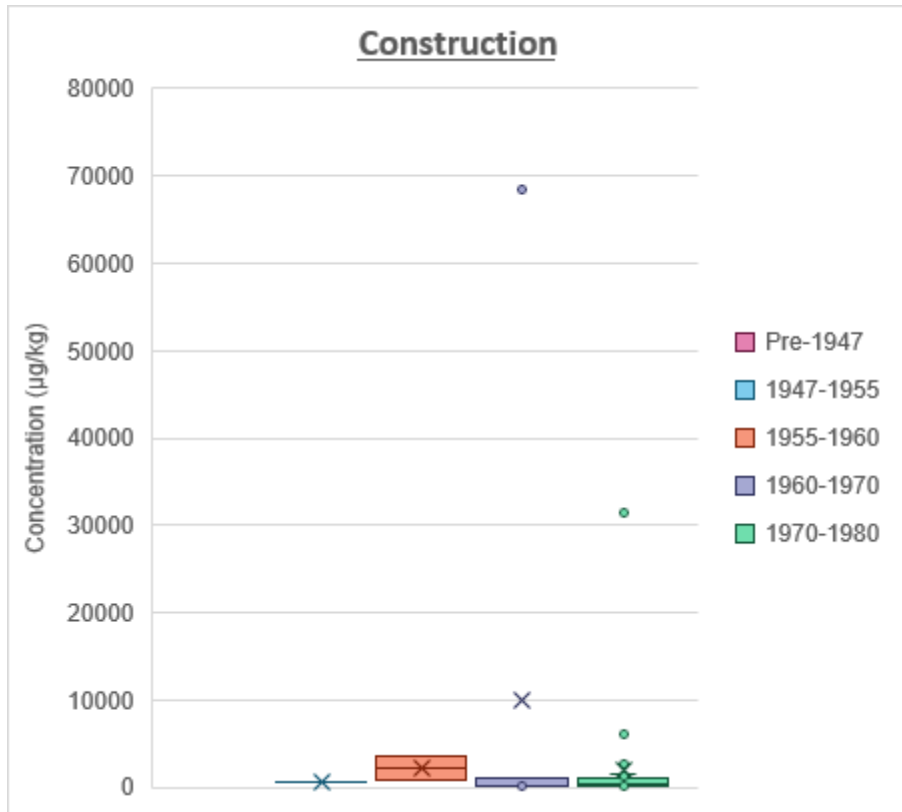


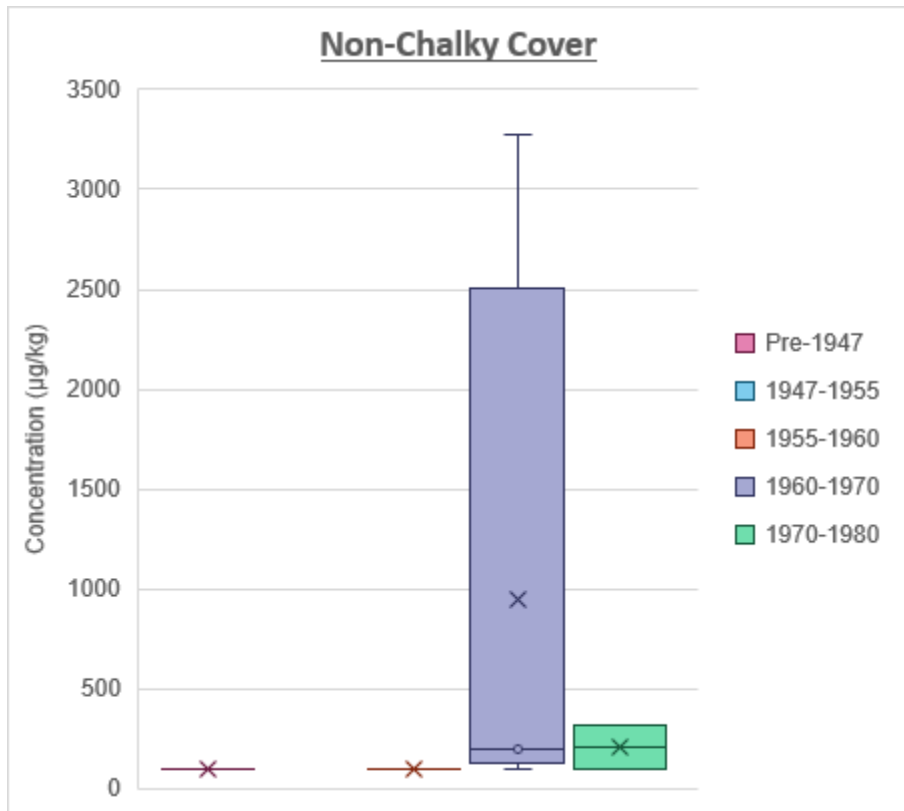
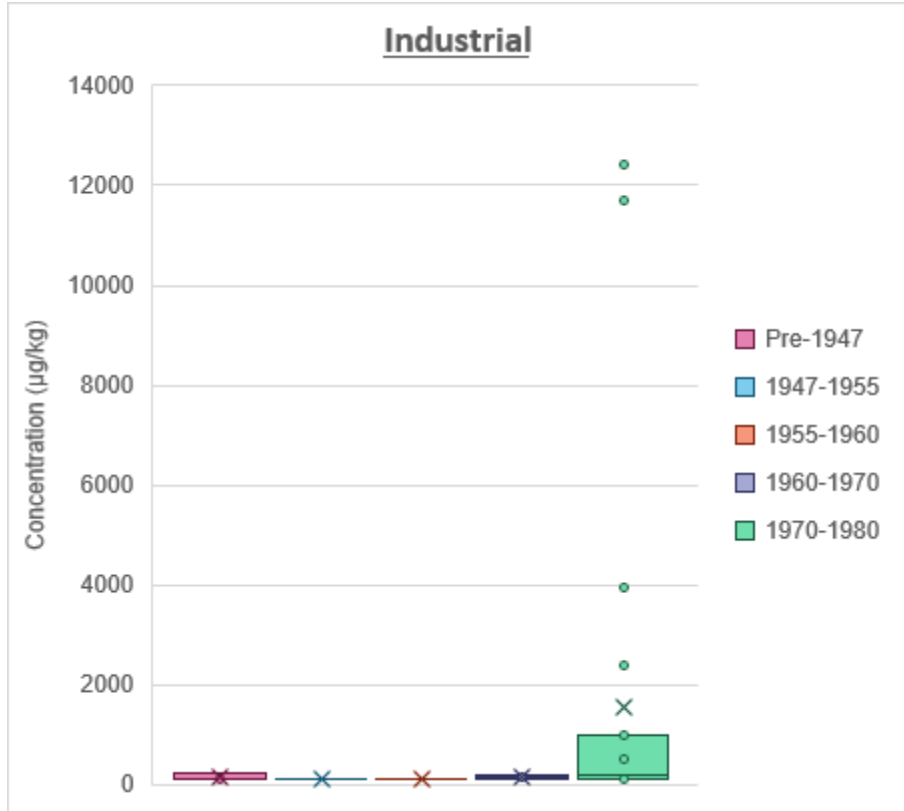
D29.2 Concentration by Waste Type

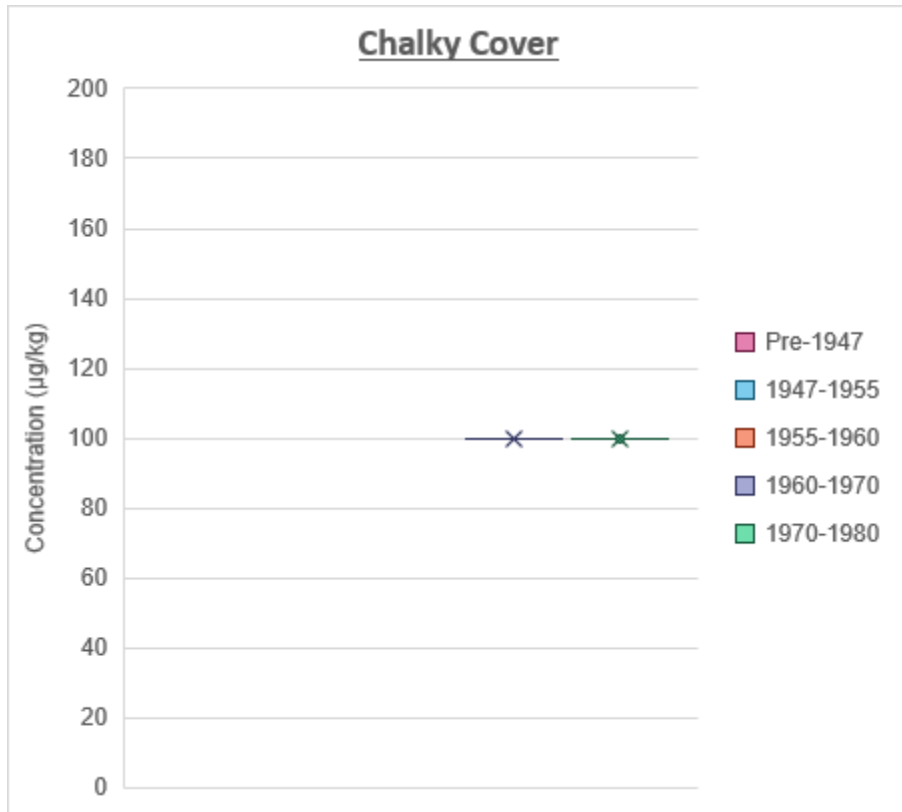


D29.3 Concentration by Waste Type and Era

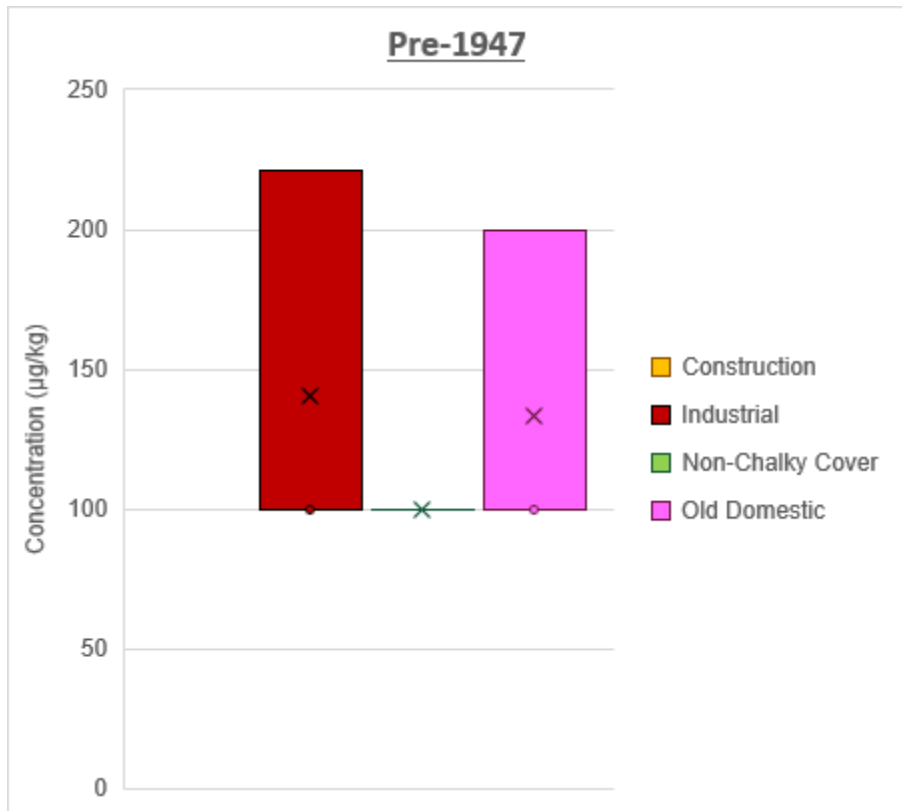


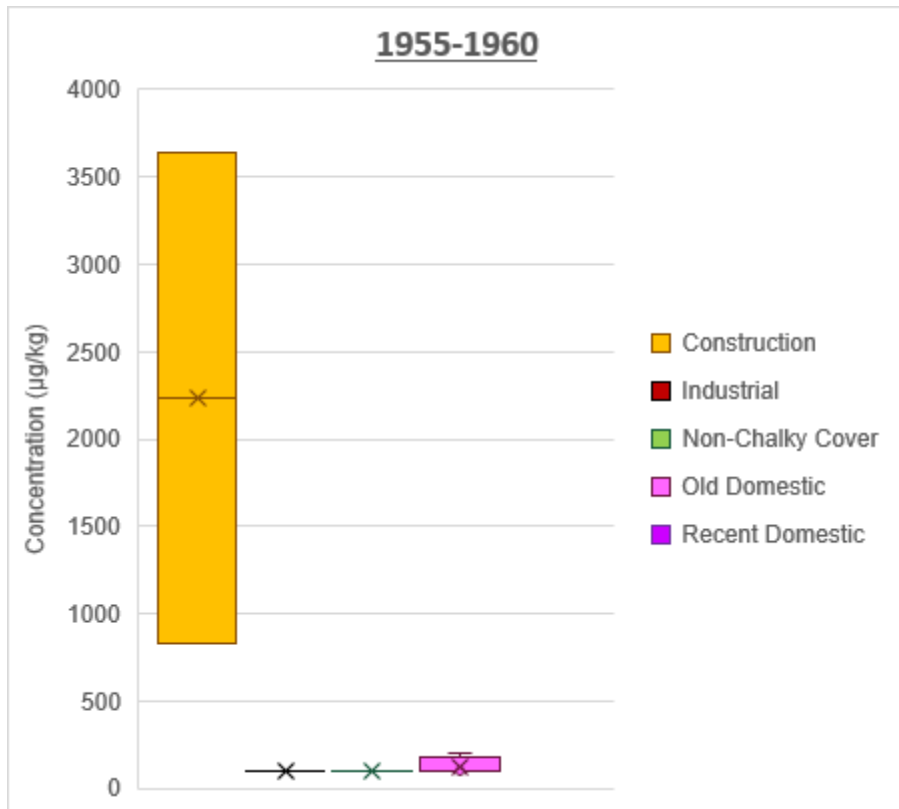
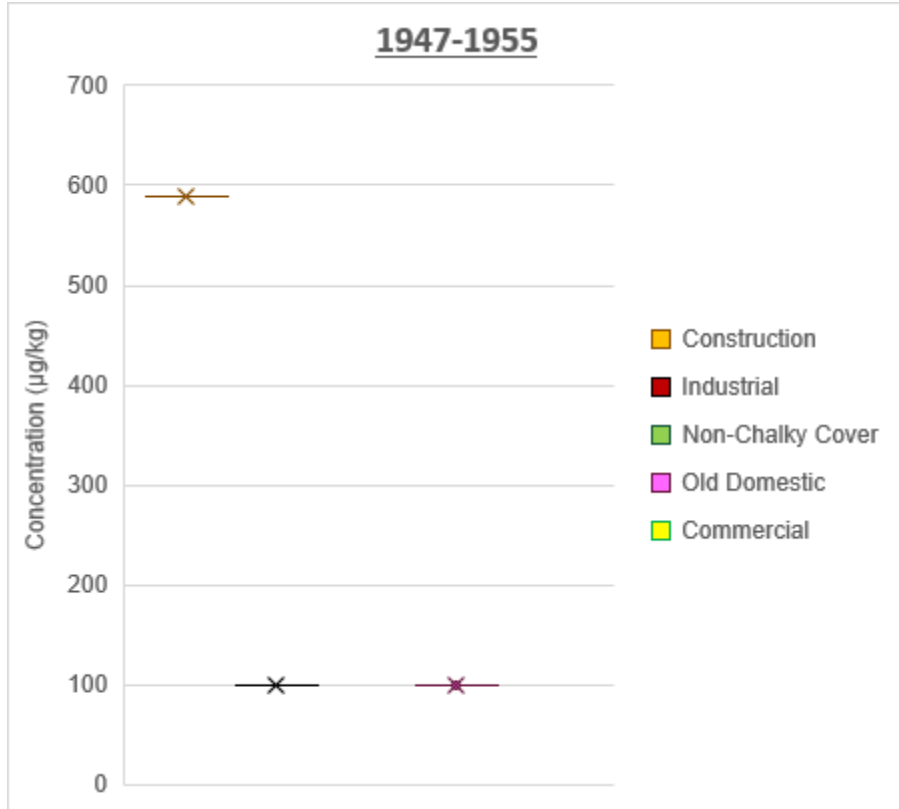


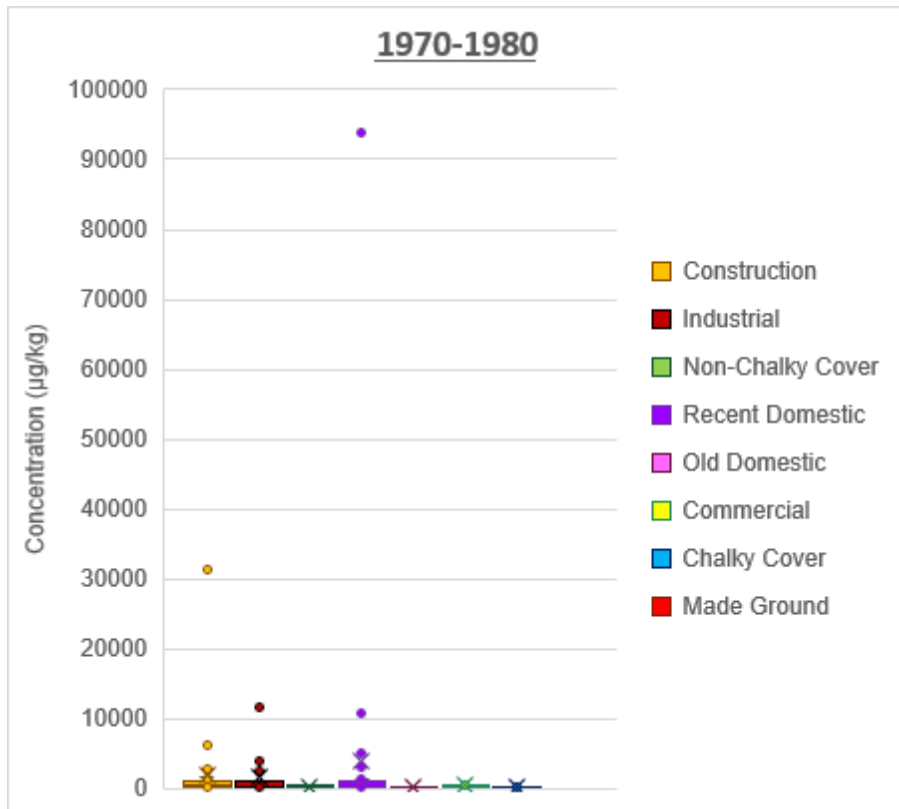
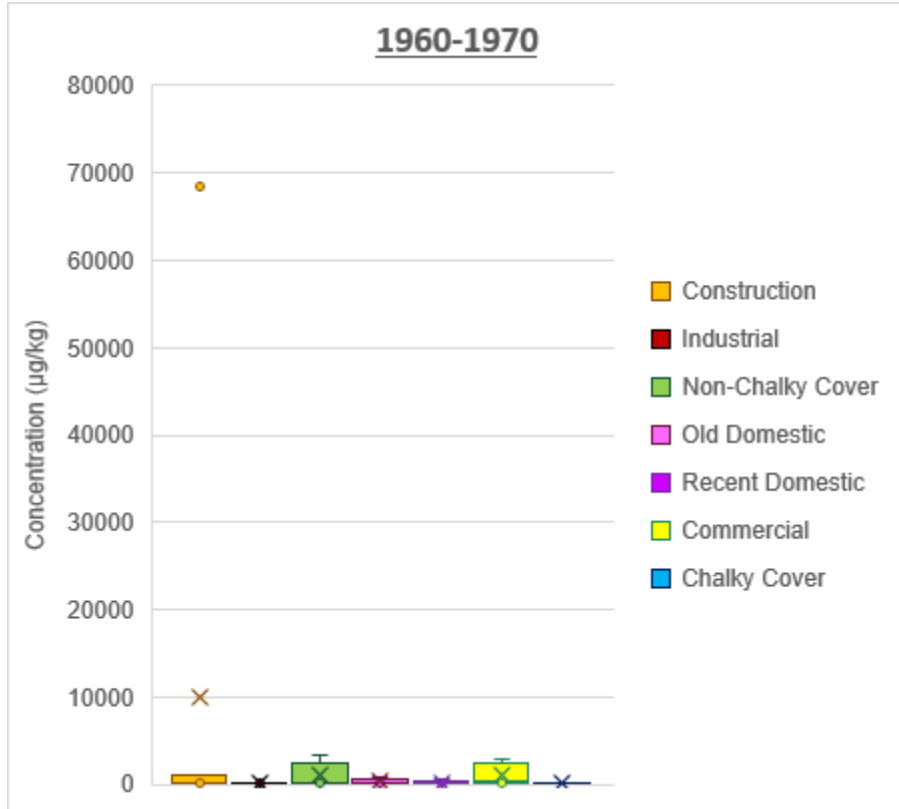




D29.4 Concentration by Era and Waste Type

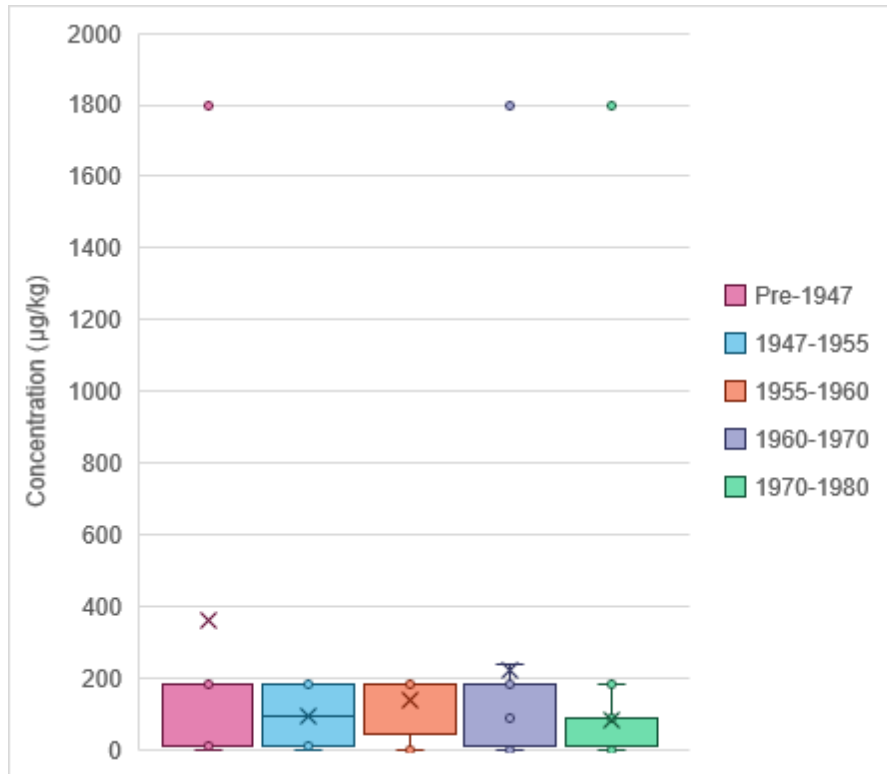




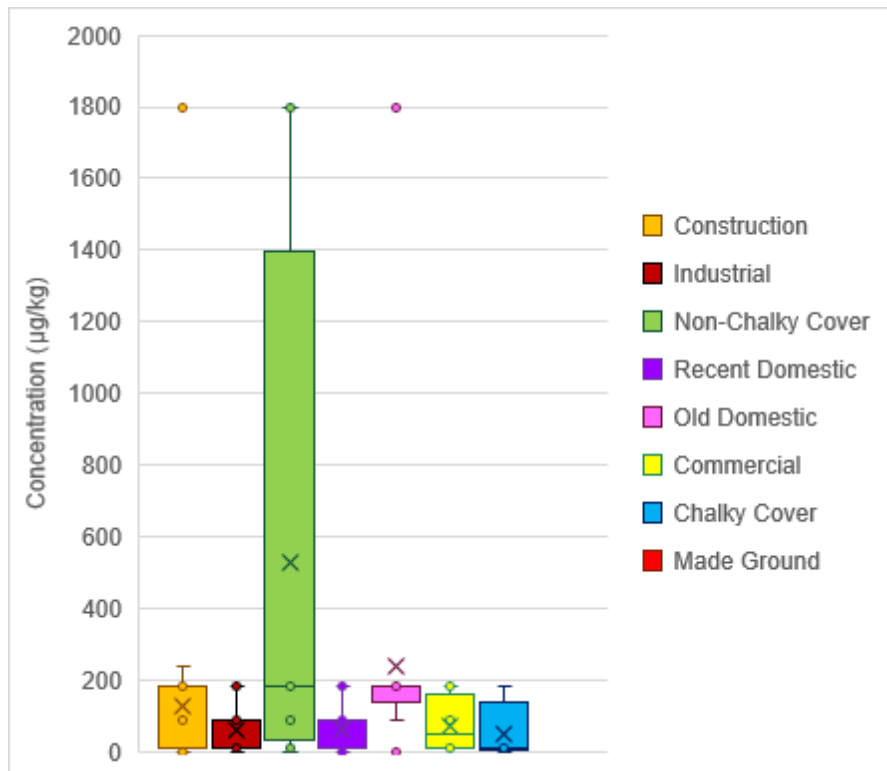


D30 Trichloroethene

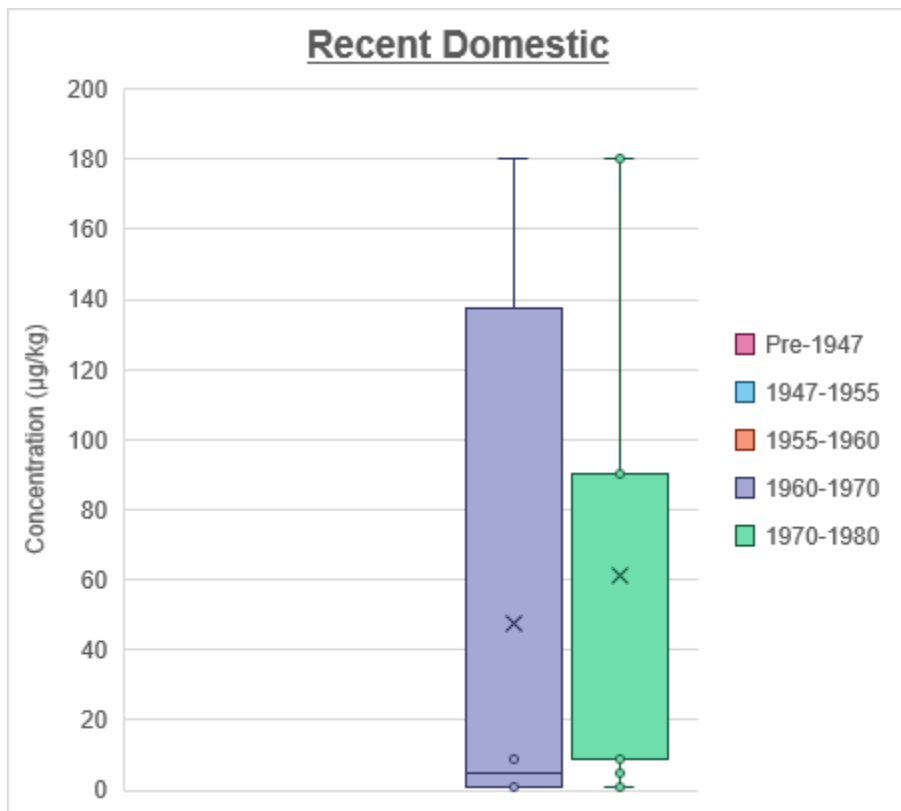
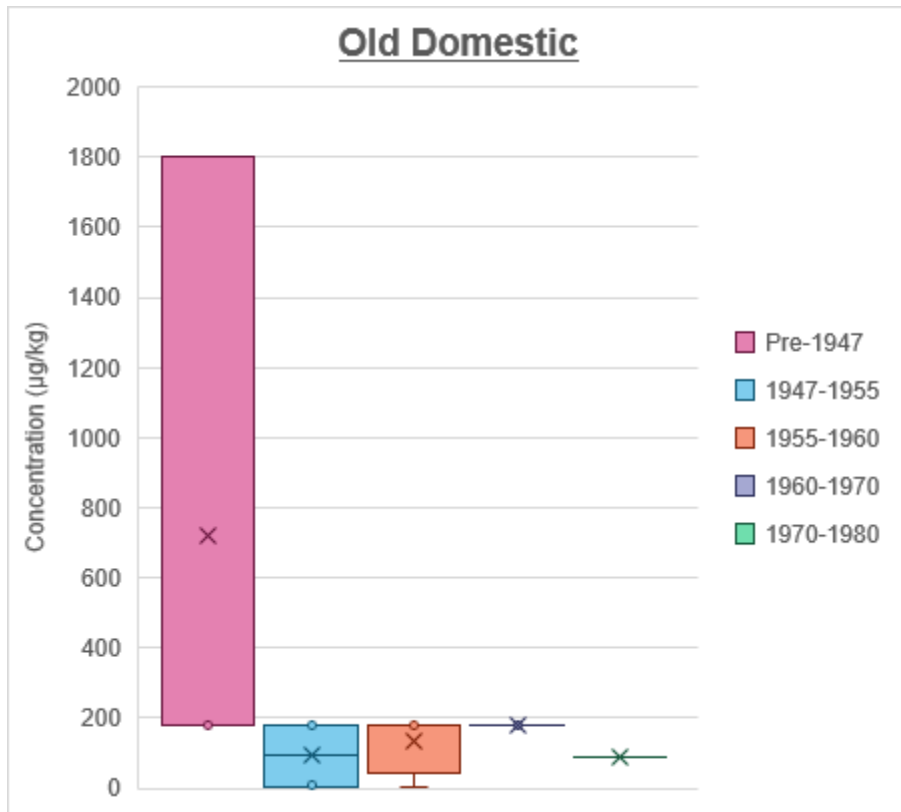
D30.1 Concentration by Era

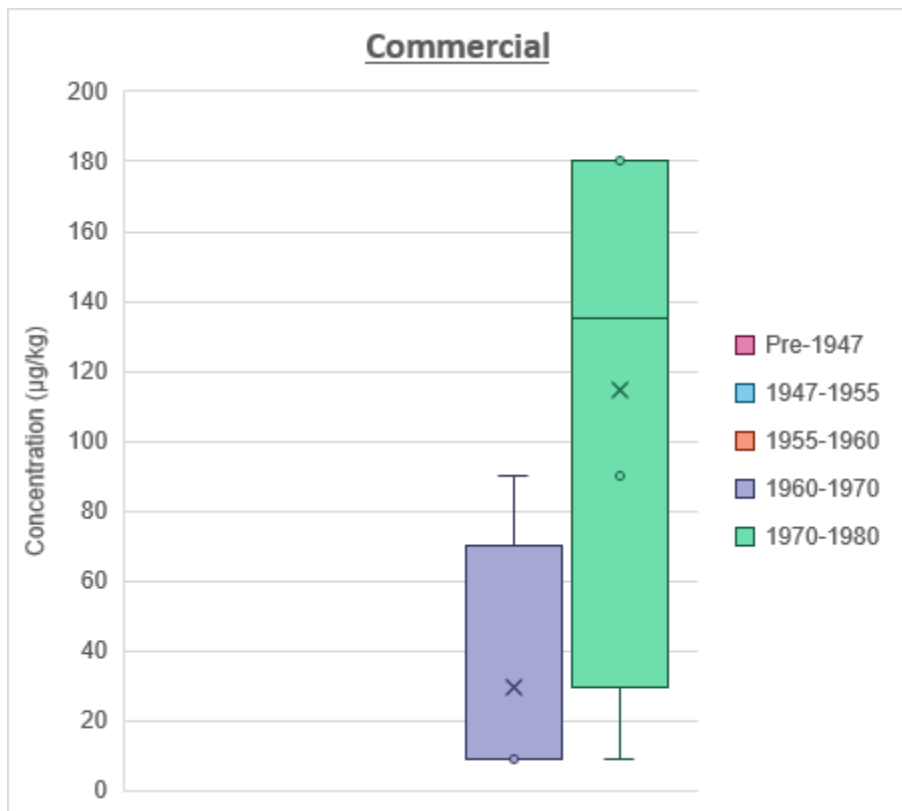
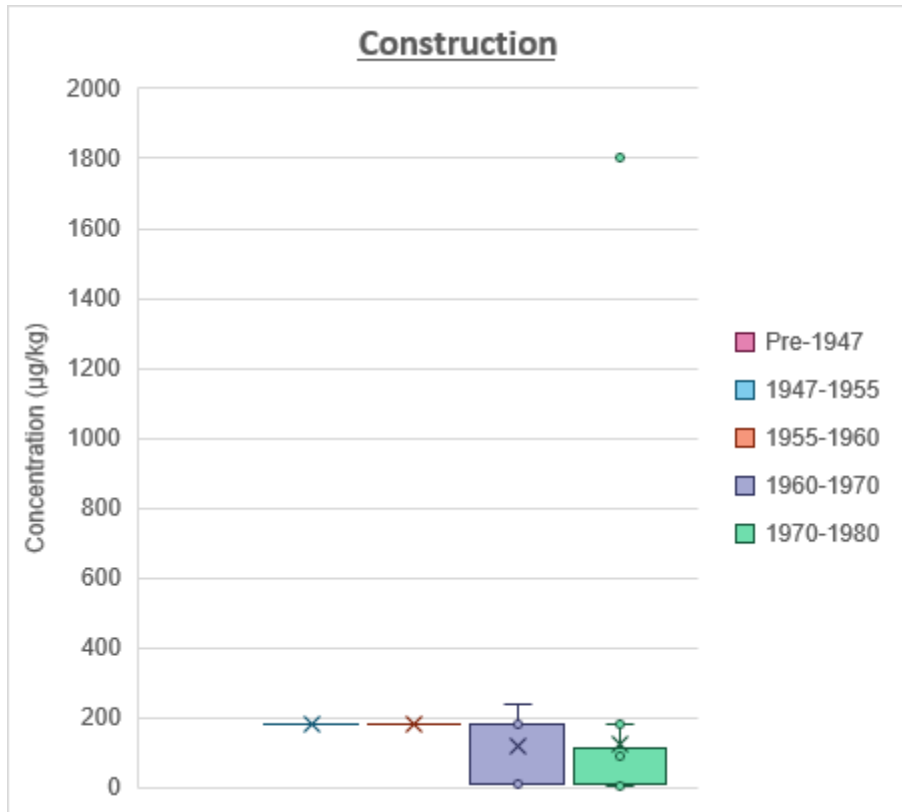


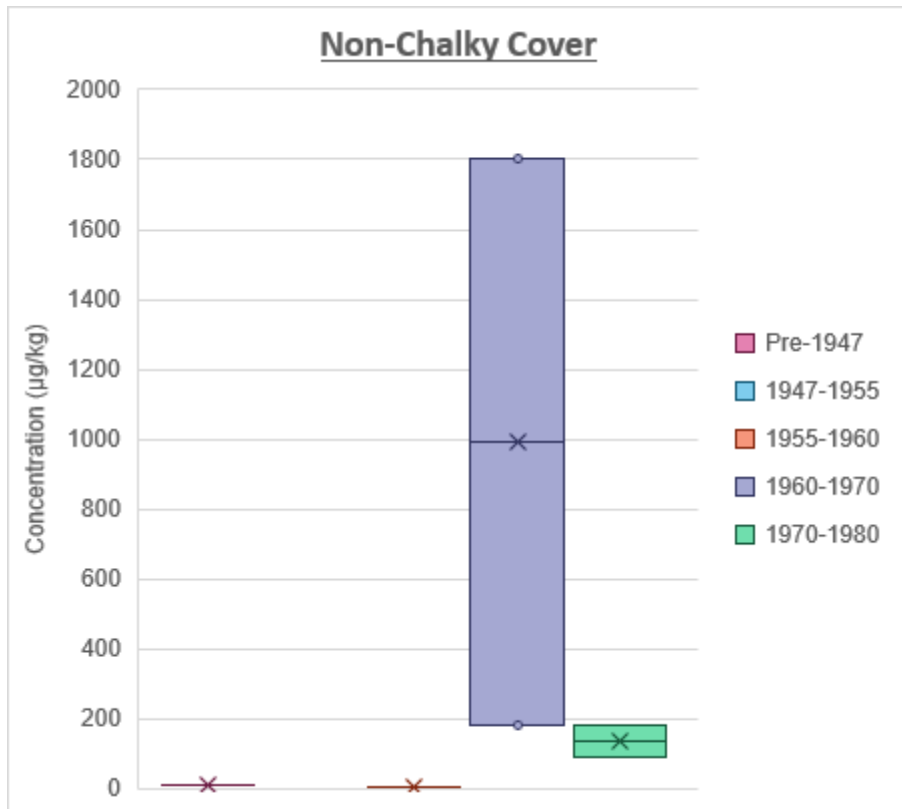
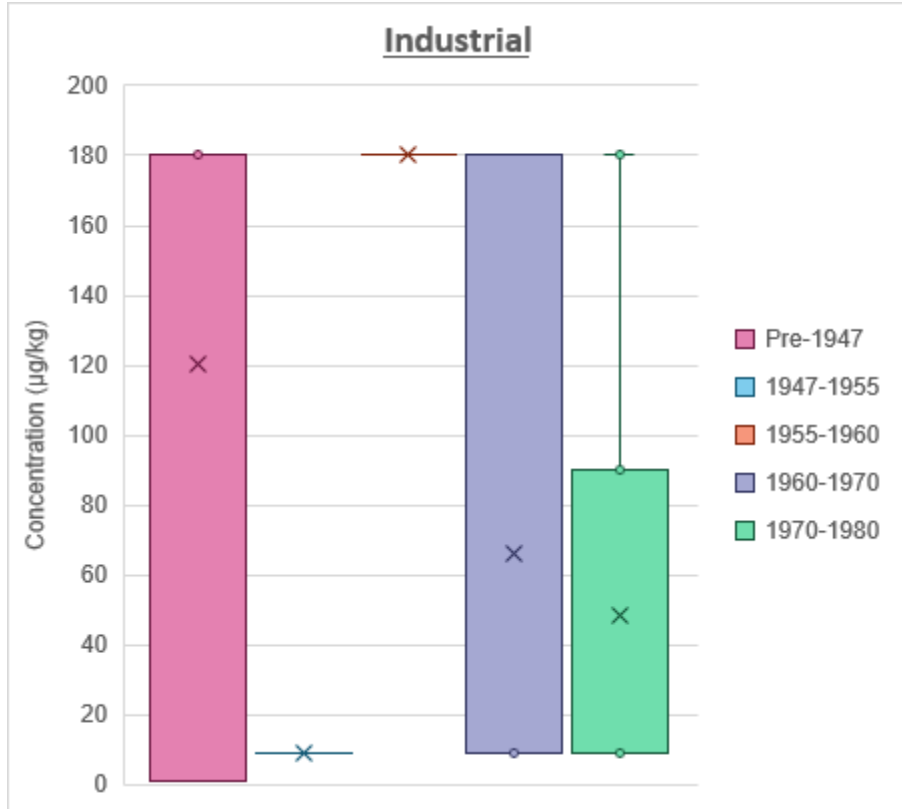
D30.2 Concentration by Waste Type

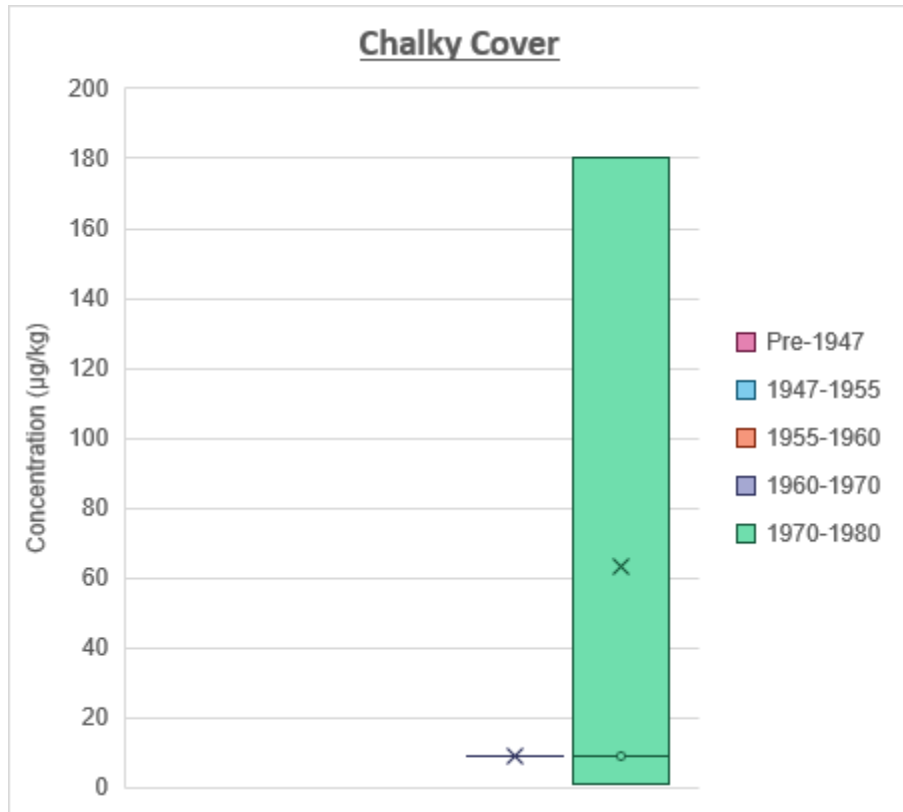


D30.3 Concentration by Waste Type and Era

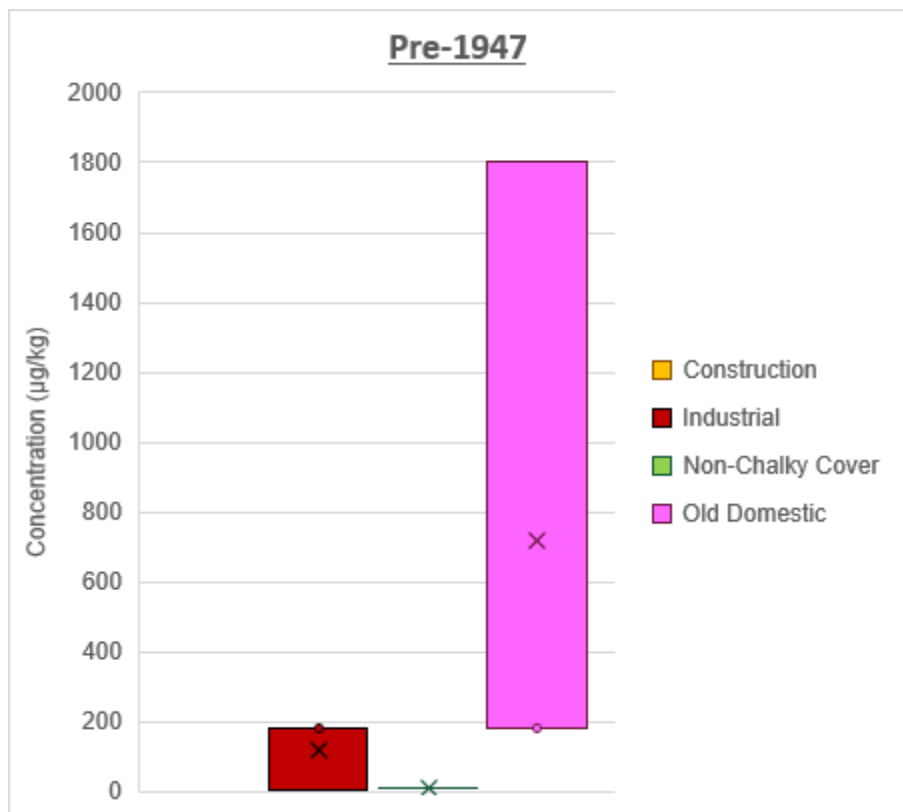


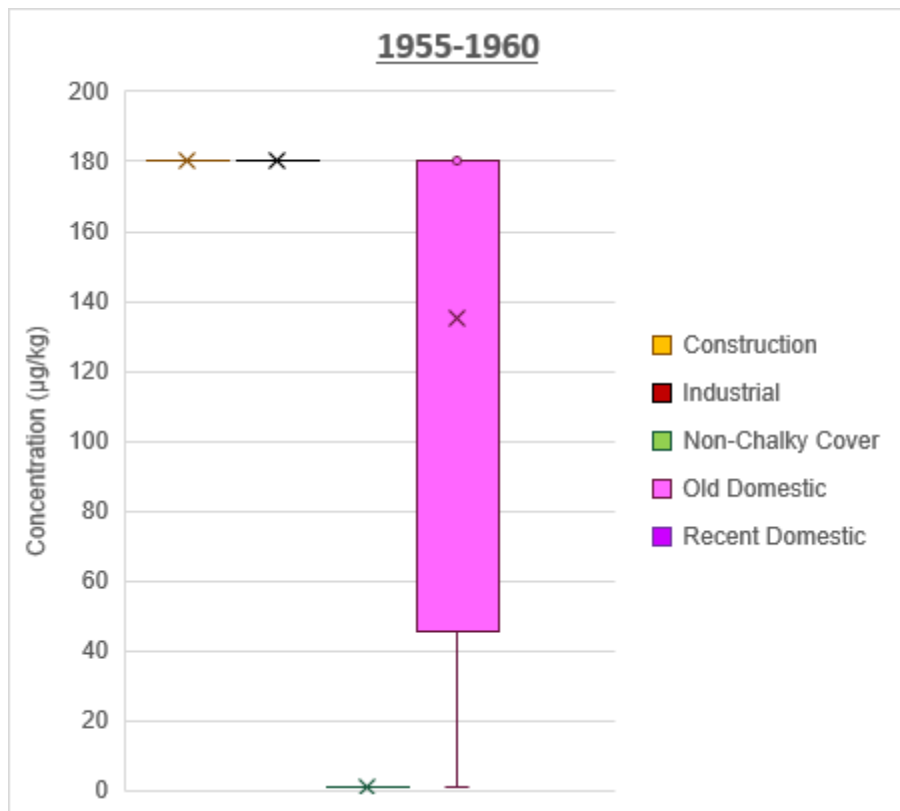
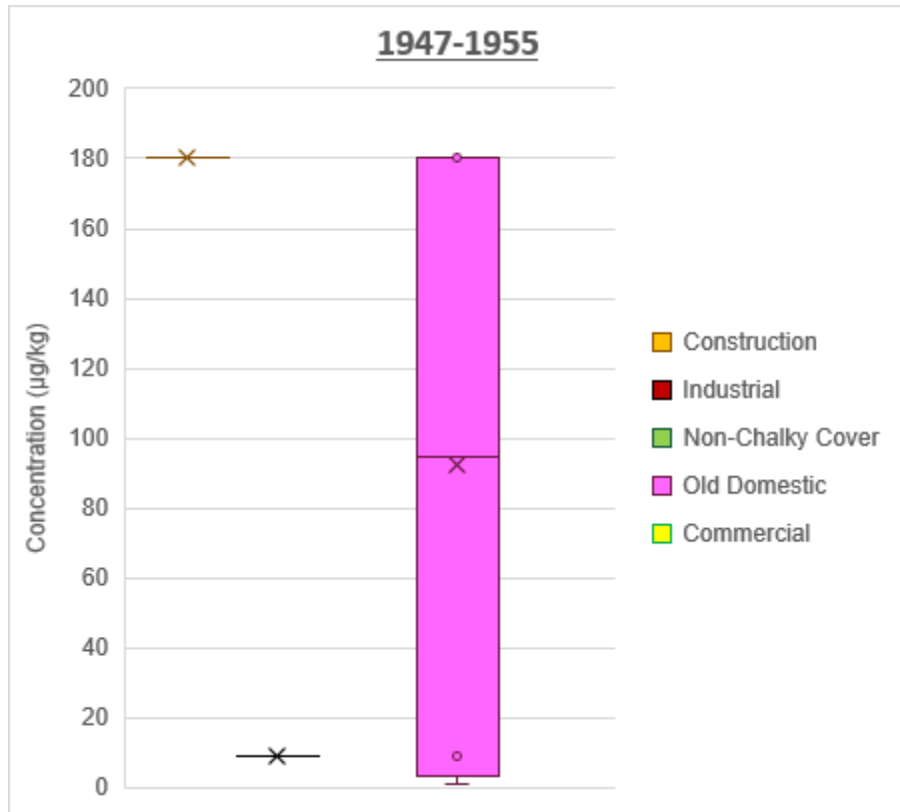


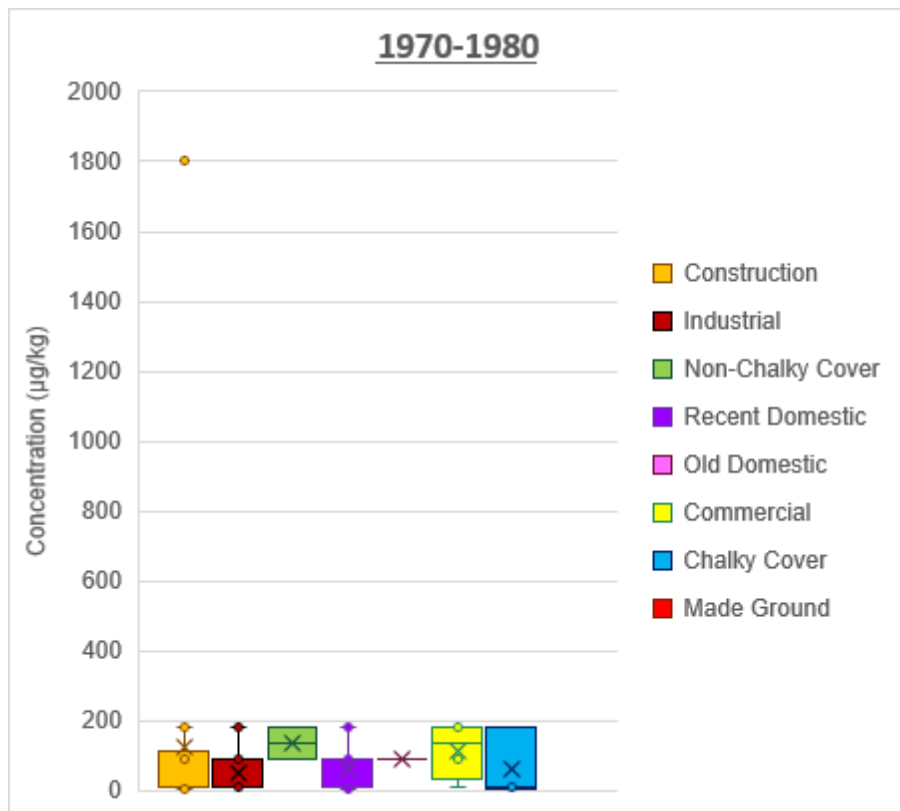
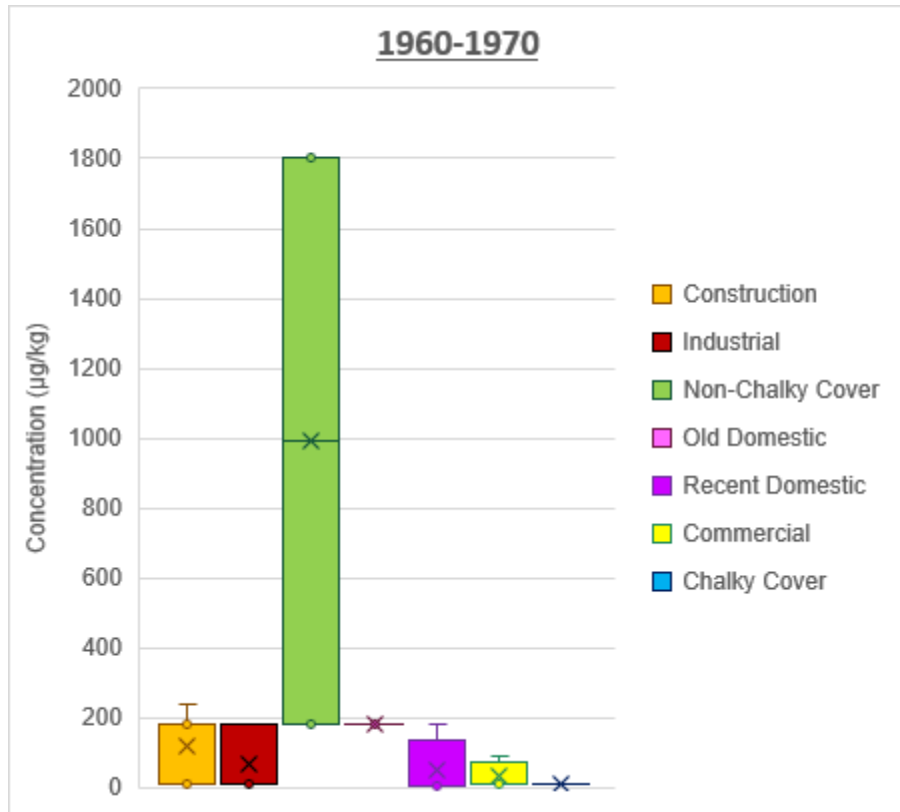




D30.4 Concentration by Era and Waste Type







Appendix E- Human Health Generic Quantitative Risk Assessment

Appendix E

E1 Human Health Assessment Criteria

Screening value	Screening value	Units	ARUP GAC	Justification
General inorganics				
Total Cyanide	24	mg/kg	POS Park	
Complex Cyanides	24	mg/kg	POS Park	
Free Cyanide	24	mg/kg	POS Park	
Phenols				
Cresols	46100	mg/kg	POS Park	No GAC - Cresol is a total of methylphenols (2-methylphenol, 3-methylphenol and 4-methylphenol), therefore the lowest of the GACs for these compounds has been used (2-methylphenol)
Phenol	7600	mg/kg	POS Maintenance	
Trimethylphenol	46100	mg/kg	POS Park	No GAC - 3-methylphenol used
Speciated PAHs				
Naphthalene	193	mg/kg	Commerical	
Acenaphthylene	28900	mg/kg	POS Park	
Acenaphthene	28900	mg/kg	POS Park	
Fluorene	19600	mg/kg	POS Park	
Phenanthrene	6170	mg/kg	POS Park	
Anthracene	149000	mg/kg	POS Park	
Fluoranthene	6300	mg/kg	POS Park	
Pyrene	15100	mg/kg	POS Park	
Benzo(a)anthracene	48.8	mg/kg	POS Park	
Chrysene	91	mg/kg	POS Maintenance	
Benzo(b)fluoranthene	13.2	mg/kg	POS Park	
Benzo(k)fluoranthene	114	mg/kg	POS Maintenance	
Benzo(a)pyrene	10.8	mg/kg	POS Park	
Indeno(1,2,3-cd)pyrene	44	mg/kg	POS Maintenance	
Dibenzo(a,h)anthracene	1.15	mg/kg	POS Park	
Benzo(g,h,i)perylene	612	mg/kg	POS Maintenance	
Heavy metals and metalloids				
Antimony	3290	mg/kg	POS Park	
Arsenic	168	mg/kg	POS Park	
Barium	5770	mg/kg	POS Park	
Beryllium	11.7	mg/kg	Commerical	
Boron	46200	mg/kg	POS Park	
Cadmium	190	mg/kg	Commerical	
Chromium VI	220	mg/kg	POS Park	
Chromium III	33000	mg/kg	POS park	
Chromium Total	8570	mg/kg	Commerical	
Copper	44400	mg/kg	POS Park	
Lead	1300	mg/kg	POS Park	
Mercury	244	mg/kg	POS Park	
Molybdenum	2890	mg/kg	POS Park	
Nickel	804	mg/kg	POS Park	
Selenium	1850	mg/kg	POS Park	
Vanadium	2820	mg/kg	POS Maintenance	
Zinc	173000	mg/kg	POS park	
Monoaromatics				
Benzene	26.6	mg/kg	Commerical	
Toluene	56293	mg/kg	Commerical	
Ethylbenzene	5705.5	mg/kg	Commerical	
Xylenes	6603.1	mg/kg	Commerical	
MTBE	7480	mg/kg	Commerical	
Petroleum hydrocarbons				
TPH >C5-C6 Aliphatics	3190	mg/kg	Commerical	
TPH >C6-C8 Aliphatics	7780	mg/kg	Commerical	
TPH >C8-C10 Aliphatics	2000	mg/kg	Commerical	
TPH >C10-C12 Aliphatics	9690	mg/kg	Commerical	
TPH >C12-C16 Aliphatics	24700	mg/kg	POS Park	
TPH >C16-C21 Aliphatics	455000	mg/kg	POS Park	
TPH >C21-C35 Aliphatics	455000	mg/kg	POS Park	
TPH-CWG - Aliphatic >C16 - C35	455000	mg/kg	POS Park	
TPH-CWG - Aliphatic >C35 - C44	455000	mg/kg	POS Park	
TPH >C5-C7 Aromatics	27	mg/kg	Commerical	
TPH >C7-C8 Aromatics	56294	mg/kg	Commerical	
TPH >C8-C10 Aromatics	3460	mg/kg	Commerical	
TPH >C10-C12 Aromatics	9240	mg/kg	POS Park	
TPH >C12-C16 Aromatics	10200	mg/kg	POS Park	
TPH >C16-C21 Aromatics	7630	mg/kg	POS Park	
TPH >C21-C35 Aromatics	7820	mg/kg	POS Park	
TPH >C35-C44 Aromatics	7820	mg/kg	POS Park	

Screening value	Screening value	Units	ARUP GAC	Justification
VOCs				
Chloromethane	0.956	mg/kg	Commerical	
Chloroethane	901	mg/kg	Commerical	
Vinyl Chloride	0.0594	mg/kg	Commerical	
1,1-Dichloroethene	24.3	mg/kg	Commerical	
Cis-1,2 Dichloroethene	13.6	mg/kg	Commerical	
1,1 -Dichloroethane	263	mg/kg	Commerical	
Trichloromethane	99.1	mg/kg	Commerical	(Chloroform)
1,1,1-Trichloroethane	660	mg/kg	Commerical	
1,2-Dichloroethane	0.671	mg/kg	Commerical	
Trans-1,2 Dichloroethene	20.7	mg/kg	Commerical	
Tetrachloromethane	2.87	mg/kg	Commerical	
1,2-Dichloropropane	3.13	mg/kg	Commerical	
Trichloroethene	1.23	mg/kg	Commerical	
Bromodichloromethane	1.96	mg/kg	Commerical	
1,1,2-Trichloroethane	89.1	mg/kg	Commerical	
Dibromochloromethane	1.96	mg/kg	Commerical	
Tetrachloroethene	18.6	mg/kg	Commerical	
Chlorobenzene	55.6	mg/kg	Commerical	
1,1,1,2-Tetrachloroethane	108	mg/kg	Commerical	
m,p-Xylenes	5923.26	mg/kg	Commerical	
Styrene	3170	mg/kg	Commerical	
Tribromomethane	714	mg/kg	Commerical	(Bromoform)
o-Xylene	6603.1	mg/kg	Commerical	
1,1,2,2-Tetrachloroethane	274	mg/kg	Commerical	
Iso-propylbenzene	1300	mg/kg	Commerical	
Bromobenzene	91.5	mg/kg	Commerical	
Propylbenzene	3860	mg/kg	Commerical	
1,3,5 Trimethylbenzene	39.4	mg/kg	Commerical	No GAC - Arup GAC for 1,2,4-Trimethylbenzene used as surrogate
1,2,4 Trimethylbenzene	39.4	mg/kg	Commerical	
sec-Butylbenzene	26.6	mg/kg	Commerical	No GAC - benzene GAC used as a conservative surrogate.
1,3 Dichlorobenzene	29.9	mg/kg	Commerical	
p-Isopropyltoluene	1300	mg/kg	Commerical	No GAC - EIC GAC for isopropylbenzene used as precautionary surrogate. Isopropyltoluene likely to be less toxic as toluene group rather than benzene
1,2-Dichlorobenzene	2020	mg/kg	Commerical	
1,4 Dichlorobenzene	4220	mg/kg	Commerical	
n-Butylbenzene	26.6	mg/kg	Commerical	No GAC - benzene GAC used as a conservative surrogate.
1,2,4-Trichlorobenzene	215	mg/kg	Commerical	
Hexachlorobutadiene	30.7	mg/kg	Commerical	
1,2,3-Trichlorobenzene	102	mg/kg	Commerical	
Dichloromethane	257	mg/kg	Commerical	
Carbon disulphide	11	mg/kg	Commerical	
Xylenols	9180	mg/kg	POS Park	No GAC for group of compounds - EIC GAC for 2,4-dimethylphenol (Xylenol) used to represent group
SVOCs				
Phenol	7600	mg/kg	POS Park	
2-Chlorophenol	1010	mg/kg	POS Park	
2-Methylphenol	46100	mg/kg	POS Park	
Hexachloroethane	20.9	mg/kg	Commerical	
Nitrobenzene	26.6	mg/kg	Commerical	No GAC - aromatic nitro compound. Used in the manufacture of lubricating oils, dyes, pesticides and synthetic rubber. No toxicological information is available on its toxicological effects. Therefore benzene has been used as a conservative surrogate GAC.
4-Methylphenol	46000	mg/kg	POS Park	
Isophorone	26.6	mg/kg	Commerical	No GAC - cyclic ketone compound which is used in the production of polycarbonates. USEPA have classified it as a possible human carcinogen. Therefore benzene has been used a conservative surrogate GAC.
2-Nitrophenol	7600	mg/kg	POS Park	Phenolic compound. It is solid at room temperature and is not easily volatilised. Limited information on toxicological effects in humans. In the absence of any suitable criteria the GAC for phenol has been used as a surrogate.
2,4-Dimethylphenol	9180	mg/kg	POS Park	
Bis(2-chloroethoxy)methane	0.956	mg/kg	Commerical	This compound is used as a solvent and is a haloether. In the absence of any suitable criteria the GAC for the most conservative chlorinated halogen (chloromethane) has been used as a surrogate.
2,4-Dichlorophenol	977	mg/kg	POS Park	
4-Chloro-3-methylphenol	46100	mg/kg	POS Park	3-methylphenol criteria used as substitute
2,4,6-trichlorophenol	1010	mg/kg	POS Park	
2,4,5-Trichlorophenol	1010	mg/kg	POS Park	No GAC - 2,4,6-Trichlorophenol use as substitute
2-Methylnaphthalene	193	mg/kg	Commerical	No GAC - Insufficient toxicological criteria to develop assessment criteria. Naphthalene used as surrogate assessment criteria in absence of data
2-Chloronaphthalene	370	mg/kg	Commerical	
Dimethylphthalate	2630	mg/kg	POS Park	Screened against most conservative phthalate (n-Dibutylphthalate) GAC in the absence of a GAC
2,6-Dinitrotoluene	468	mg/kg	POS Park	
2,4-Dinitrotoluene	928	mg/kg	POS Park	
Dibenzofuran	10.8	mg/kg	POS Park	No GAC - Dibenzofuran is a aromatic organic compound which two benzene rings fused to a central furan ring. It is commonly associated with coal tar. It is generally accepted to be relatively non-toxic and does not exhibit "dioxin like" behaviour. Benzo(a)pyrene has been used as a conservative surrogate GAC.
Diethyl phthalate	89300	mg/kg	POS Park	

Screening value	Screening value	Units	ARUP GAC	Justification
Hexachlorobenzene	28.9	mg/kg	POS Park	
Carbazole	10.8	mg/kg	POS Park	No GAC - Carbazole is a aromatic organic compounds consisting of two six membered benzene rings on either side of a five membered nitrogen containing ring. It is a common constituent of tobacco smoke. There is insufficient evidence on its toxicity to derive a GAC. Therefore benzo(a)pyrene has been used as a conservative surrogate GAC.
Di-n-butyl phthalate	2630	mg/kg	POS Park	
Butyl benzyl phthalate	254000	mg/kg	POS Park	
Environmental Forensics				
4-Nitrophenol	7600	mg/kg	POS Park	Phenolic compound. It is solid at room temperature and is not easily volatilised. Limited information on toxicological effects in humans. In the absence of any suitable criteria the GAC for phenol has been used as a surrogate.
Perylene	10.8	mg/kg	POS Park	No GAC - perylene is a PAH compound. It is not classified as a carcinogen but its derivatives may be considered to be carcinogenic, therefore in the absence of an assessment criteria benzo(a)pyrene GAC has been used a surrogate.
Phthalates				
Bis(2-ethylhexyl)phthalate	16600	mg/kg	POS Park	
Di-n-octyl phthalate	20000	mg/kg	POS Park	
Triazine Pesticides				
Atrazine	379	mg/kg	POS Maintenance	
Organochlorine Pesticides				
Aldrin	7.8	mg/kg	POS Park	
alpha-HCH (alpha-BHC)	46.5	mg/kg	POS Park	
beta-HCH (beta-BHC)	13.3	mg/kg	POS Park	
Dieldrin	12.9	mg/kg	POS Park	
Endosulfan I	1950	mg/kg	POS Maintenance	
Endosulfan II	1960	mg/kg	POS Maintenance	
Organotins				
Tributyltin compounds	42.4	mg/kg	POS Park	
Chlorophenols				
Pentachlorophenol	113	mg/kg	POS Park	
2,3,4,6-Tetrachlorophenol	1000	mg/kg	POS Park	
Others				
Bromoform	714	mg/kg	Commerical	
Azobenzene	10.8	mg/kg	POS Park	Dye compound formed of two phenyl rings. Screened against benzene against as a conservative first assessment
2-Nitroaniline	10.8	mg/kg	POS Park	2-Nitroaniline is an organic compound with the formula H ₂ NC ₆ H ₄ NO ₂ . It is a derivative of aniline, carrying a nitro functional group in position 2. Conservatively screened against benzene in the first instance.
4-Nitroaniline	10.8	mg/kg	POS Park	it is an organic chemical compound, consisting of a benzene ring in which an amino group is para to a nitro group. Therefore screened against benzene as a conservative first assessment
4-Chloroaniline	10.8	mg/kg	POS Park	Used in the industrial production of pesticides, drugs, and dyestuffs. Consists of a benzene ring with nitro and chlorine compounds. Conservatively screened against benzene in the first instance.

Appendix E

E2 Groundwater Assessment Criteria

Screening value	Screening value	Units	Screening standard	Justification
General inorganics				
Total Cyanide	50	ug/l	UK DWS	DWS prioritised
Complex Cyanides	50	ug/l	UK DWS	DWS for total cyanide used
Free Cyanide	50	ug/l	UK DWS	DWS for total cyanide used
Thiocyanate as SCN	50	ug/l	UK DWS	DWS for total cyanide used
Sulphate as SO4	250000	ug/l	UK DWS	DWS prioritised
Sulphide	N/A	ug/l	-	-
Chloride	250	mg/l	UK DWS	DWS prioritised
Fluoride	1500	ug/l	UK DWS	DWS prioritised
Ammoniacal Nitrogen as N	390	ug/l	UK DWS	DWS prioritised
Nitrate as N	11.3	mg/l	UK DWS	DWS for Nitrate as NO3 converted to Nitrate as N (NO3 x 0.2259)
Nitrate as NO3	50	mg/l	UK DWS	DWS prioritised
Nitrite as N	160	ug/l	UK DWS	DWS for Nitrite as NO2 converted to Nitrite as N (NO2 x 0.3257)
Nitrite as NO2	500	ug/l	UK DWS	DWS prioritised
Alkalinity	N/A	mg/l	-	-
Chemical Oxygen Demand (COD)	N/A	mg/l	-	-
Biological Oxygen Demand (BOD)	N/A	mg/l	-	-
Total Oxidised N (Nitrate/-ite)	50	mg/l	UK DWS	DWS for Nitrate as NO3 assumed
Total Suspended Solids	N/A	mg/l	-	-
Hardness - Total	N/A	mg/l	-	-
Bromide	N/A	mg/l	-	Bromide common constituent of groundwater and is naturally occurring
Bromate	0.01	mg/l	UK DWS	DWS prioritised
Phenols				
Catechol	7.7	ug/l	FEQS	EQS for phenol used (no UK DWS available)
Resorcinol	7.7	ug/l	FEQS	EQS for phenol used (no UK DWS available)
Ethylphenol & Dimethylphenol	100	ug/l	FEQS	EQS for methylphenol used (no UK DWS available)
Cresols	100	ug/l	FEQS	EQS for methylphenol used (no UK DWS available)
Naphthols	7.7	ug/l	FEQS	EQS for phenol used (no UK DWS available)
Isopropylphenol	7.7	ug/l	FEQS	EQS for phenol used (no UK DWS available)
Phenol	7.7	ug/l	FEQS	EQS (no UK DWS available)
Trimethylphenol	100	ug/l	FEQS	EQS for methylphenol used (no UK DWS available)
Speciated PAHs				
Naphthalene	2	ug/l	FEQS	EQS (no UK DWS available)
Acenaphthylene	2	ug/l	FEQS	EQS for naphthalene used (no UK DWS available)
Acenaphthene	2000	ug/l	USEPA	USEPA DWS (no UK DWS available)
Fluorene	2	ug/l	FEQS	EQS for naphthalene used (no UK DWS available)
Phenanthrene	2	ug/l	FEQS	EQS for naphthalene used (no UK DWS available)
Anthracene	0.1	ug/l	FEQS	EQS (no UK DWS available)
Fluoranthene	0.0063	ug/l	FEQS	EQS (no UK DWS available)
Pyrene	2	ug/l	FEQS	EQS for naphthalene used (no UK DWS available)
Benzo(a)anthracene	2	ug/l	FEQS	EQS for naphthalene used (no UK DWS available)
Chrysene	2	ug/l	FEQS	EQS for naphthalene used (no UK DWS available)
Benzo(b)fluoranthene	0.1	ug/l	UK DWS	DWS prioritised
Benzo(k)fluoranthene	0.1	ug/l	UK DWS	DWS prioritised
Benzo(a)pyrene	0.01	ug/l	UK DWS	DWS prioritised
Indeno(1,2,3-cd)pyrene	0.1	ug/l	UK DWS	DWS prioritised
Dibenzo(a,h)anthracene	2	ug/l	FEQS	EQS for naphthalene used (no UK DWS available)
Benzo(g,h,i)perylene	0.1	ug/l	UK DWS	DWS prioritised
Heavy metals and metalloids				
Antimony	5	ug/l	UK DWS	DWS prioritised
Arsenic	10	ug/l	UK DWS	DWS prioritised
Barium	700	ug/l	WHO	WHO (no UK DWS available)
Beryllium	4	ug/l	USEPA	USEPA (no UK DWS available)
Boron	1000	ug/l	UK DWS	DWS prioritised
Cadmium	5	ug/l	UK DWS	DWS prioritised
Calcium	N/A	mg/l	-	-
Chromium VI	3.4	ug/l	FEQS	EQS (no UK DWS available)
Chromium III	4.7	ug/l	FEQS	EQS (no UK DWS available)
Chromium Total	50	ug/l	UK DWS	DWS prioritised
Copper	2000	ug/l	UK DWS	DWS prioritised
Iron	0.2	mg/l	UK DWS	DWS prioritised
Lead	10	ug/l	UK DWS	DWS prioritised
Magnesium	N/A	mg/l	-	-
Manganese	50	ug/l	UK DWS	DWS prioritised
Mercury	1	ug/l	UK DWS	DWS prioritised
Molybdenum	70	ug/l	WHO	WHO (no UK DWS available)
Nickel	20	ug/l	UK DWS	DWS prioritised
Potassium	N/A	mg/l	-	-
Selenium	10	ug/l	UK DWS	DWS prioritised
Sodium	50	mg/l	WHO	WHO (no UK DWS available)
Vanadium	20	ug/l	FEQS	EQS (no UK DWS available)
Zinc	5000	ug/l	USEPA	USEPA (no UK DWS available)

Screening value	Screening value	Units	Screening standard	Justification
Monoaromatics				
Benzene	1	ug/l	UK DWS	DWS prioritised
Toluene	74	ug/l	FEQS	EQS (no UK DWS available)
Ethylbenzene	20	ug/l	FEQS	EQS (no UK DWS available)
Xylenes	30	ug/l	FEQS	EQS (no UK DWS available)
MTBE	15	ug/l	WHO	WHO threshold for taste and odour in drinking water (no UK DWS available)
Petroleum hydrocarbons				
TPH	N/A	ug/l	-	-
TPH >C5-C6 Aliphatics	15000	ug/l	WHO	WHO (no UK DWS available)
TPH >C6-C8 Aliphatics	15000	ug/l	WHO	WHO (no UK DWS available)
TPH >C8-C10 Aliphatics	300	ug/l	WHO	WHO (no UK DWS available)
TPH >C10-C12 Aliphatics	300	ug/l	WHO	WHO (no UK DWS available)
TPH >C12-C16 Aliphatics	300	ug/l	WHO	WHO (no UK DWS available)
TPH >C16-C21 Aliphatics	300	ug/l	WHO	WHO guideline for TPH >C12-C16 Aliphatics used (no UK DWS available)
TPH >C21-C35 Aliphatics	300	ug/l	WHO	WHO guideline for TPH >C12-C16 Aliphatics used (no UK DWS available)
TPH-CWG - Aliphatic >C16 - C35	300	ug/l	WHO	WHO guideline for TPH >C12-C16 Aliphatics used (no UK DWS available)
TPH-CWG - Aliphatic >C35 - C44	300	ug/l	WHO	WHO guideline for TPH >C12-C16 Aliphatics used (no UK DWS available)
C5-C35 Aliphatics	N/A	ug/l	-	-
TPH-CWG - Aliphatic (C5 - C44)	N/A	ug/l	-	-
TPH >C5-C6 Aromatics	10	ug/l	WHO	WHO (no UK DWS available)
TPH >C7-C8 Aromatics	700	ug/l	WHO	WHO (no UK DWS available)
TPH >C8-C9 Aromatics	300	ug/l	WHO	WHO (no UK DWS available)
TPH >C9-C10 Aromatics	300	ug/l	WHO	WHO (no UK DWS available)
TPH >C8-C10 Aromatics	300	ug/l	WHO	WHO (no UK DWS available)
TPH >C10-C12 Aromatics	90	ug/l	WHO	WHO (no UK DWS available)
TPH >C12-C16 Aromatics	90	ug/l	WHO	WHO (no UK DWS available)
TPH >C16-C21 Aromatics	90	ug/l	WHO	WHO (no UK DWS available)
TPH >C21-C35 Aromatics	90	ug/l	WHO	WHO (no UK DWS available)
TPH >C35-C44 Aromatics	90	ug/l	WHO	WHO guideline for TPH >C21-C35 Aromatics used (no UK DWS available)
C5-C35 Aromatics	N/A	ug/l	-	-
C5-C35 Aromatics	N/A	ug/l	-	-
VOCs				
Chloromethane	20	ug/l	FEQS	EQS for dichloromethane used (no UK DWS available)
Chloroethane	3	ug/l	UK DWS	DWS for 1,2-dichloroethane used
Bromomethane	100	ug/l	UK DWS	DWS for total trihalomethanes used which includes dibromomethane
Vinyl Chloride	0.5	ug/l	UK DWS	DWS prioritised
Trichlorofluoromethane	2.5	ug/l	FEQS	EQS for trichloromethane used (no UK DWS available)
1,1-Dichloroethene	7	ug/l	USEPA	USEPA (no UK DWS available)
1,1,2-Trichloro-1,2,2-trifluoroethane	400	ug/l	FEQS	EQS for 1,1,2-trichloroethane used (no UK DWS available)
Cis-1,2 Dichloroethene	50	ug/l	WHO	WHO (no UK DWS available)
1,1 -Dichloroethane	3	ug/l	UK DWS	DWS for 1,2-dichloroethane used
2,2-Dichloropropane	40	ug/l	WHO	WHO for 1,2-dichloropropane used (no UK DWS available)
Trichloromethane	2.5	ug/l	FEQS	EQS (no UK DWS available)
1,1,1-Trichloroethane	100	ug/l	FEQS	EQS (no UK DWS available)
1,2-Dichloroethane	3	ug/l	UK DWS	DWS prioritised
1,1-Dichloropropene	20	ug/l	WHO	WHO for 1,3-dichloropropene used (no UK DWS available)
Trans-1,2 Dichloroethene	50	ug/l	WHO	WHO (no UK DWS available)
Tetrachloromethane	3	ug/l	UK DWS	DWS prioritised
1,2-Dichloropropane	40	ug/l	WHO	WHO (no UK DWS available)
Trichloroethene	10	ug/l	UK DWS	DWS prioritised
Dibromomethane	100	ug/l	UK DWS	DWS prioritised
Bromodichloromethane	100	ug/l	UK DWS	DWS prioritised
Cis-1,3 Dichloropropene	20	ug/l	WHO	WHO (no UK DWS available)
Trans-1,3 Dichloropropene	20	ug/l	WHO	WHO (no UK DWS available)
1,1,2-Trichloroethane	400	ug/l	FEQS	EQS (no UK DWS available)
1,3-Dichloropropane	40	ug/l	WHO	WHO for 1,2-dichloropropane used (no UK DWS available)
Dibromochloromethane	100	ug/l	WHO	WHO (no UK DWS available)
Tetrachloroethene	10	ug/l	UK DWS	DWS prioritised
1,2-Dibromoethane	0.4	ug/l	WHO	WHO (no UK DWS available)
Chlorobenzene	0.4	ug/l	EQS	EQS for trichlorobenzene (no UK DWS available)
1,1,1,2-Tetrachloroethane	400	ug/l	USEPA	USEPA for 1,1,2,2-tetrachloroethane used (no UK DWS available)
m,p-Xylenes	30	ug/l	FEQS	EQS for total xylenes (no UK DWS available)
Styrene	20	ug/l	WHO	WHO (no UK DWS available)
Tribromomethane	100	ug/l	UK DWS	DWS for total trihalomethanes used which includes dibromomethane
o-Xylene	30	ug/l	FEQS	EQS for total xylenes (no UK DWS available)
1,1,2,2-Tetrachloroethane	400	ug/l	USEPA	USEPA (no UK DWS available)
Iso-propylbenzene	1	ug/l	UK DWS	UK DWS for benzene used
Bromobenzene	1	ug/l	UK DWS	UK DWS for benzene used
Propylbenzene	1	ug/l	UK DWS	UK DWS for benzene used
2-Chlorotoluene	74	ug/l	FEQS	EQS for toluene used (no UK DWS available)
4-Chlorotoluene	74	ug/l	FEQS	EQS for toluene used (no UK DWS available)
1,3,5 Trimethylbenzene	1	ug/l	UK DWS	UK DWS for benzene used
tert-Butylbenzene	1	ug/l	UK DWS	UK DWS for benzene used
1,2,4 Trimethylbenzene	1	ug/l	UK DWS	UK DWS for benzene used
sec-Butylbenzene	1	ug/l	UK DWS	UK DWS for benzene used
1,3 Dichlorobenzene	3000	ug/l	USEPA	USEPA (no UK DWS available)

Screening value	Screening value	Units	Screening standard	Justification
p-Isopropyltoluene	74	ug/l	FEQS	EQS for toluene used (no UK DWS available)
1,2-Dichlorobenzene	1000	ug/l	WHO	WHO (no UK DWS available)
1,4 Dichlorobenzene	300	ug/l	WHO	WHO (no UK DWS available)
n-Butylbenzene	1	ug/l	UK DWS	UK DWS for benzene used
1,2-Dibromo-3-chloropropane	1	ug/l	WHO	WHO (no UK DWS available)
1,2,4-Trichlorobenzene	70	ug/l	USEPA	USEPA (no UK DWS available)
Hexachlorobutadiene	0.6	ug/l	WHO	WHO (no UK DWS available)
2,6 Chloronitrotoluene	74	ug/l	FEQS	EQS for toluene used (no UK DWS available)
4,2 Chloronitrotoluene	74	ug/l	FEQS	EQS for toluene used (no UK DWS available)
4,3 Chloronitrotoluene	74	ug/l	FEQS	EQS for toluene used (no UK DWS available)
2,4 Chloronitrotoluene	74	ug/l	FEQS	EQS for toluene used (no UK DWS available)
2,5 Chloronitrotoluene	74	ug/l	FEQS	EQS for toluene used (no UK DWS available)
1,2,3-Trichlorobenzene	0.4	ug/l	FEQS	EQS for trichlorobenzene (no UK DWS available)
1,2,3-Trichloropropane	40	ug/l	WHO	WHO for 1,2-dichloropropane used (no UK DWS available)
1,3,5-Trichlorobenzene	0.4	ug/l	FEWS	EQS for trichlorobenzene (no UK DWS available)
Bromochloromethane	100	ug/l	WHO	WHO for dibromochloromethane used (no UK DWS available)
Dichloromethane	20	ug/l	FEQS	EQS (no UK DWS available)
Carbon disulphide	10	ug/l	Default	No suitable published criteria available default value of 10ug/l adopted
Dichlorodifluoromethane	20	ug/l	FEQS	EQS used for dichloromethane (no UK DWS available)
SVOCs				
Phenol	7.7	ug/l	FEQS	EQS (no UK DWS available)
2-Chlorophenol	50	ug/l	FEQS	EQS (no UK DWS available)
Bis(2-chloroethyl)ether	1000	ug/l	USEPA	USEPA for bis(2-chloro-1-methylethyl)ether used (no UK DWS available)
Bis(2-chloroisopropyl)ether	1000	ug/l	USEPA	USEPA for bis(2-chloro-1-methylethyl)ether used (no UK DWS available)
2-Methylphenol	100	ug/l	FEQS	EQS for methylphenol used (no UK DWS available)
Hexachloroethane	40	ug/l	USEPA	USEPA (no UK DWS available)
Nitrobenzene	1	ug/l	UK DWS	UK DWS for benzene used
4-Methylphenol	100	ug/l	FEQS	EQS for methylphenol used (no UK DWS available)
Isophorone	7000	ug/l	USEPA	USEPA (no UK DWS available)
2-Nitrophenol	7.7	ug/l	FEQS	EQS for phenol used (no UK DWS available)
2,4-Dimethylphenol	100	ug/l	FEQS	EQS for methylphenol used (no UK DWS available)
Bis(2-chloroethoxy)methane	10	ug/l	Default	No suitable published criteria available default value of 10ug/l adopted
2,4-Dichlorophenol	4.2	ug/l	FEQS	EQS (no UK DWS available)
4-Chloro-3-methylphenol	40	ug/l	FEQS	EQS (no UK DWS available)
2,4,6-trichlorophenol	200	ug/l	WHO	WHO (no UK DWS available)
2,4,5-Trichlorophenol	200	ug/l	WHO	WHO for 2,4,6-trichlorophenol used (no UK DWS available)
2-Methylnaphthalene	2	ug/l	FEQS	EQS for naphthalene used (no UK DWS available)
2-Chloronaphthalene	2	ug/l	FEQS	EQS for naphthalene used (no UK DWS available)
Dimethylphthalate	800	ug/l	FEQS	EQS (no UK DWS available)
2,6-Dinitrotoluene	100	ug/l	USEPA	USEPA for 2,4-dinitrotoluene used (no UK DWS available)
2,4-Dinitrotoluene	100	ug/l	USEPA	USEPA (no UK DWS available)
Dibenzofuran	2	ug/l	FEQS	EQS for naphthalene used (no UK DWS available)
Diethyl phthalate	200	ug/l	FEQS	EQS (no UK DWS available)
Bromophenyl phenyl ether	10	ug/l	Default	No suitable published criteria available default value of 10ug/l adopted
Hexachlorobenzene	1	ug/l	USEPA	USEPA (no UK DWS available)
Carbazole	2	ug/l	FEQS	EQS for naphthalene used (no UK DWS available)
Di-n-butyl phthalate	8	ug/l	FEQS	EQS (no UK DWS available)
Butyl benzyl phthalate	7.5	ug/l	FEQS	EQS (no UK DWS available)
PCBs by GC-ECD - WHO 12				
PCB Congener 77	25	ug/l	FEQS	EQS (no UK DWS available)
PCB Congener 81	25	ug/l	FEQS	EQS (no UK DWS available)
PCB Congener 105	25	ug/l	FEQS	EQS (no UK DWS available)
PCB Congener 114	25	ug/l	FEQS	EQS (no UK DWS available)
PCB Congener 118	25	ug/l	FEQS	EQS (no UK DWS available)
PCB Congener 123	25	ug/l	FEQS	EQS (no UK DWS available)
PCB Congener 126	25	ug/l	FEQS	EQS (no UK DWS available)
PCB Congener 156	25	ug/l	FEQS	EQS (no UK DWS available)
PCB Congener 157	25	ug/l	FEQS	EQS (no UK DWS available)
PCB Congener 167	25	ug/l	FEQS	EQS (no UK DWS available)
PCB Congener 169	25	ug/l	FEQS	EQS (no UK DWS available)
PCB Congener 189	25	ug/l	FEQS	EQS (no UK DWS available)
PCBs	25	ug/l	FEQS	EQS (no UK DWS available)
Environmental Forensics				
PFOS	0.3	ug/l	FEQS	DWS
PFOA	0.3	ug/l	FEQS	DWS for PFOS used
Metalddehyde	0.1	ug/l	UK DWS	DWS for other pesticides prioritised
Chloronitrotoluenes (sum)	10	ug/l	FEQS	EQS (no DWS available). EQS is an EA operational EQS and is not listed within WFD.
Chlorobufam	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Chloroxuron	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Chlorpropham	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Ethiofencarb	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Phenmedipham	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Propham	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Dimefuron	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Metoxuron	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Pencycuron	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised

Screening value	Screening value	Units	Screening standard	Justification
o,p-Methoxychlor	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Demeton-s-methyl	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Diclofop	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Fenvalerate	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Cyhalothrin	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Ametryn	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Atrazine-methoxy	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Bromacil	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Flamprop	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Flamprop-isopropyl	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Prometon	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Simetryn	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
4-Nitrophenol	7.7	ug/l	FEQS	EQS for phenol used (no UK DWS available)
Hexachlorocyclopentadiene	50	ug/l	USEPA	USEPA (no UK DWS available)
Perylene	2	ug/l	FEQS	EQS for naphthalene used (no UK DWS available)
n-Nitroso-n-dipropylamine	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Carbamates				
Pirimicarb	100	ng/l	UK DWS	DWS 'other pesticides' prioritised
Carbetamide	100	ng/l	UK DWS	DWS 'other pesticides' prioritised
Phthalates				
Bis(2-ethylhexyl)phthalate	8	ug/l	WHO	WHO for di(2-ethylhexyl)phthalate used (no UK DWS available)
Di-n-octyl phthalate	20	ug/l	FEQS	EQS (no UK DWS available)
Total phthalates	N/A	mg/l	-	-
Glycols				
Ethylene Glycol	0.01	mg/l	Default	No suitable published criteria available default value of 10ug/l adopted
Diethylene Glycol	0.01	mg/l	Default	No suitable published criteria available default value of 10ug/l adopted
1,2-Propanediol	0.01	mg/l	Default	No suitable published criteria available default value of 10ug/l adopted
Triazine Pesticides				
Atrazine	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Simazine	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Prometryn	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Propazine	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Terbutylazine	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Terbutryn	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Acid herbicides esters				
2,4-D Methyl Ester	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
2,4-D butyl ester	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
2,4-D ethyl ester	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
2,4-D isobutyl ester	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
2,4-D isopropyl ester	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Acid Herbicides				
2,3,6-TBA	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Benazolin	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Bromoxnil	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Clopyralid	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
loxyml	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
2,4,5-T	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
2,4,5-TP	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
2,4-D	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
2,4-DB	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Dicamba	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Dichlorprop	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
MCPA	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
MCPB	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Mecoprop	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Picloram	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
4-Chlorophenoxyacetic acid	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Organochlorine Pesticides				
Aldrin	0.03	ug/l	UK DWS	DWS 'pesticides' prioritised
alpha-HCH (alpha-BHC)	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
beta-HCH (beta-BHC)	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
delta-HCH (delta-BHC)	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Dieldrin	0.03	ug/l	UK DWS	DWS 'pesticides' prioritised
Endosulfan	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Endosulfan	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Endosulfan Sulphate	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Endrin	0.6	ug/l	WHO	DWS 'other pesticides' prioritised
gamma-HCH (gamma-BHC)	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Heptachlor	0.03	ug/l	UK DWS	DWS 'pesticides' prioritised
Heptachlor Epoxide	0.03	ug/l	UK DWS	DWS 'pesticides' prioritised
Isodrin	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Methoxychlor	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
o,p-DDE	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
DDT	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
o,p-TDE (o,p-DDD)	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
p,p-DDE	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised

Screening value	Screening value	Units	Screening standard	Justification
DDT	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
p,p'-TDE (o,p'-DDD)	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Trifluralin	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Organonitrogen pesticides				
Bentazone	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Fluroxypyr	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Triclorpyr	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Organophosphorous pesticides				
Azinphos-ethyl	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Azinphos-methyl	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Chlorfenvinphos	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Chlorfenvinphos I	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Chlorfenvinphos II	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Chlorpyrifos-methyl	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Diazinon	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Dichlorvos	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Dimethoate	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
E-mevinphos	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Z-Mevinphos	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Ethion	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Fenitrothion	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Fenthion	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Malathion	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Parathion-ethyl	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Parathion-methyl	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Phenylurea herbicides				
Isoproturon	100	ng/l	UK DWS	DWS 'other pesticides' prioritised
Chlorburluron	100	ng/l	UK DWS	DWS 'other pesticides' prioritised
Diflufenzuron	100	ng/l	UK DWS	DWS 'other pesticides' prioritised
Diuron	100	ng/l	UK DWS	DWS 'other pesticides' prioritised
Linuron	100	ng/l	UK DWS	DWS 'other pesticides' prioritised
Methabenzthiazuron	100	ng/l	UK DWS	DWS 'other pesticides' prioritised
Monolinuron	100	ng/l	UK DWS	DWS 'other pesticides' prioritised
Monuron	100	ng/l	UK DWS	DWS 'other pesticides' prioritised
VFAs				
Acetic acid	0.01	mg/l	Default	No suitable published criteria available default value of 10ug/l adopted
Propanoic acid	0.01	mg/l	Default	No suitable published criteria available default value of 10ug/l adopted
Butyric acid	0.01	mg/l	Default	No suitable published criteria available default value of 10ug/l adopted
Isobutyric acid	0.01	mg/l	Default	No suitable published criteria available default value of 10ug/l adopted
Pentanoic acid	0.01	mg/l	Default	No suitable published criteria available default value of 10ug/l adopted
Isopentanoic acid	0.01	mg/l	Default	No suitable published criteria available default value of 10ug/l adopted
Hexanoic acid	0.01	mg/l	Default	No suitable published criteria available default value of 10ug/l adopted
Heptanoic acid	0.01	mg/l	Default	No suitable published criteria available default value of 10ug/l adopted
Pyrethroids				
Cyfluthrin	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Cypermethrin	100	ng/l	UK DWS	DWS 'other pesticides' prioritised
Deltramethrin	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Permethrin	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Permethrin	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Organotins				
Tributyltin compounds	0.2	ng/l	FEQS	EQS (no UK DWS available)
TPT (Triphenyl Tin)	0.2	ng/l	FEQS	EQS for tributyl tin compounds used (no UK DWS available)
DBT (Dibutyl Tin)	0.2	ng/l	FEQS	EQS for tributyl tin compounds used (no UK DWS available)
Chlorophenols				
Pentachlorophenol	0.0004	mg/l	FEQS	EQS (no UK DWS available)
Others				
Chlordane	0.0001	mg/l	UK DWS	DWS 'other pesticides' prioritised
Chlorothalonil	0.0001	mg/l	UK DWS	DWS 'other pesticides' prioritised
Chlorpyrifos	0.0001	mg/l	UK DWS	DWS 'other pesticides' prioritised
Pendimethalin	0.0003	mg/l	FEQS	DWS 'other pesticides' prioritised
Bromoform	0.1	mg/l	WHO	WHO (no UK DWS available)
Carbon Tetrachloride	0.003	mg/l	UK DWS	DWS prioritised
Lambda-cyhalothrin	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Methane	N/A	ug/l	-	-

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	AEC17-H24-TP101	AEC17-H24-TP102	AEC17-H24-TP102	AEC17-H24-TP102	AEC17-H24-TP102	AEC17-H24-TP104	AEC17-H24-TP104	AEC17-H24-TP104	AEC17-H24-TP105	AEC17-H24-TP105	AEC17-H24-TP105	AEC17-H24-TP105	AEC17-H24-TP107	AEC17-H24-TP107	AEC17-H24-TP107	AEC17-H24-TP107	AEC17-H24-TP107	AEC17-H24-WS101	AEC17-H24-WS102	AEC17-H24-WS102	AEC17-H24-WS103	AEC17-H24-WS104	AEC17-H24-WS105	
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
n-propylbenzene	3860	Commercial	mg/kg	0	mg/kg				< 0.01						< 0.01				< 0.01										
n-Butylbenzene	26.598	Commercial	mg/kg	0	mg/kg				< 0.01						< 0.01				< 0.01										
2,4-Dimethylphenol	9180	POS PARK	mg/kg	0	mg/kg				< 0.1						< 0.1				< 0.1										
3/4 Methylphenol	46000	POS PARK	mg/kg	0	mg/kg				< 0.1						< 0.1				0.2										
1,4-Dichlorobenzene	4220	Commercial	mg/kg	0	mg/kg				< 0.01						< 0.01				< 0.01										
1,2-Dichloroethane	0.671	Commercial	mg/kg	0	mg/kg				< 0.01						< 0.01				< 0.01										
1,3,5-Trimethylbenzene	39.4	Commercial	mg/kg	0	mg/kg				< 0.01						< 0.01				< 0.01										
Bromobenzene	91.5	Commercial	mg/kg	0	mg/kg				< 0.01						< 0.01				< 0.01										
Chlorobenzene	55.6	Commercial	mg/kg	0	mg/kg				< 0.01						< 0.01				< 0.01										
Phenol	7600	POS PARK	mg/kg	0	mg/kg				< 0.1						< 0.1				< 0.1										
Bis(2-chloroethoxy)methane	0.956	Commercial	mg/kg	0	mg/kg				< 0.1						< 0.1				< 0.1										
Bis(2-ethylhexyl)phthalate	16600	POS PARK	mg/kg	0	mg/kg				< 0.1						< 0.1				0.1										
Di-N-Octyl Phthalate	20000	POS PARK	mg/kg	0	mg/kg				< 0.1						< 0.1				< 0.1										
Hexachlorobenzene (HCB)	28.9	POS PARK	mg/kg	0	mg/kg				< 0.1						< 0.1				< 0.1										
1,2,4-Trichlorobenzene	215	Commercial	mg/kg	0	mg/kg				< 0.1						< 0.1				< 0.1										
2,4-Dichlorophenol	977	POS PARK	mg/kg	0	mg/kg				< 0.1						< 0.1				< 0.1										
2,4-Dinitrotoluene	928	POS PARK	mg/kg	0	mg/kg				< 0.1						< 0.1				< 0.1										
Dibromochloromethane	1.96	Commercial	mg/kg	0	mg/kg				< 0.01						< 0.01				< 0.01										
Tetrachloroethene	18.6	Commercial	mg/kg	0	mg/kg				< 0.01						< 0.01				0.1										
Dimethylphthalate	2630	POS PARK	mg/kg	0	mg/kg				< 0.1						< 0.1				< 0.1										
Dibenzofuran	10.8	POS PARK	mg/kg	0	mg/kg				< 0.1						< 0.1				< 0.1										
Sec-Butylbenzene	26.6	Commercial	mg/kg	0	mg/kg				< 0.01						< 0.01				< 0.01										
cis-1,2-Dichloroethene	13.6	Commercial	mg/kg	0	mg/kg				< 0.01						< 0.01				< 0.01										
trans-1,2-Dichloroethene	20.7	Commercial	mg/kg	0	mg/kg				< 0.01						< 0.01				< 0.01										
Methyl tert-butyl ether (MTBE)	7480	Commercial	mg/kg	0	mg/kg				< 0.01						< 0.01				< 0.01										
1,3-Dichlorobenzene	29.9	Commercial	mg/kg	0	mg/kg				< 0.01						< 0.01				< 0.01										
Tetrachloromethane (Carbon Tetra Chloride)	2.87	Commercial	mg/kg	0	mg/kg				< 0.01						< 0.01				< 0.01										
2,3,4,6-Tetrachlorophenol	1000	POS PARK	mg/kg	0	mg/kg				< 0.1						< 0.1				< 0.1										
4-Chloro-3-Methylphenol	46100	POS PARK	mg/kg	0	mg/kg				< 0.1						< 0.1				< 0.1										
2,6-Dinitrotoluene	468	POS PARK	mg/kg	0	mg/kg				< 0.1						< 0.1				< 0.1										
1,1,1,2-Tetrachloroethane	108	Commercial	mg/kg	0	mg/kg				< 0.01						< 0.01				< 0.01										
Chloroform	99.1	Commercial	mg/kg	0	mg/kg				< 0.01						< 0.01				< 0.01										
1,1,1-Trichloroethane	660	Commercial	mg/kg	0	mg/kg				< 0.01						< 0.01				< 0.01										
Chloroethene	0.0594	Commercial	mg/kg	0	mg/kg				< 0.01						< 0.01				< 0.01										
Tribromomethane	714	Commercial	mg/kg	0	mg/kg				< 0.01						< 0.01				< 0.01										
Bromodichloromethane	1.96	Commercial	mg/kg	0	mg/kg				< 0.01						< 0.01				< 0.01										
1,1-Dichloroethane	263	Commercial	mg/kg	0	mg/kg				< 0.01						< 0.01				< 0.01										
1,1-Dichloroethene	24.3	Commercial	mg/kg	0	mg/kg				< 0.01						< 0.01				< 0.01										
1,2-Dichloropropane	3.13	Commercial	mg/kg	0	mg/kg				< 0.01						< 0.01				< 0.01										
1,1,2-Trichloroethane	89.1	Commercial	mg/kg	0	mg/kg				< 0.01						< 0.01				< 0.01										
Trichloroethene	1.23	Commercial	mg/kg	0	mg/kg				< 0.01						< 0.01				< 0.01										
Diethylphthalate	89300	POS PARK	mg/kg	0	mg/kg				< 0.1						< 0.1				< 0.1										
Di-N-Butyl Phthalate	2630	POS PARK	mg/kg	0	mg/kg				< 0.1						< 0.1				0.2										
Butylbenzylphthalate	254000	POS PARK	mg/kg	0	mg/kg				< 0.1						< 0.1				0.5										
Carbazole	10.8	POS PARK	mg/kg	0	mg/kg				< 0.1						< 0.1				0.1										
1,2,3 Trichlorobenzene	102	Commercial	mg/kg	0	mg/kg				< 0.01						< 0.01				0.0										
Hexachlorobutadiene (HCBd)	30.7	Commercial	mg/kg	0	mg/kg				< 0.01						< 0.01				< 0.01										
Pentachlorophenol (PCP)	113	POS PARK	mg/kg	0	mg/kg				< 0.1						< 0.1				< 0.1										
2,4,6-Trichlorophenol	1010	POS PARK	mg/kg	0	mg/kg				< 0.1						< 0.1				< 0.1										
2-Nitroaniline	10.8	POS PARK	mg/kg	0	mg/kg				< 0.1						< 0.1				< 0.1										
2-Methylnaphthalene	193	Commercial	mg/kg	0	mg/kg				< 0.1						< 0.1				< 0.1										
2-Chloronaphthalene	370	Commercial	mg/kg	0	mg/kg				< 0.1						< 0.1				< 0.1										
2,3,5,6-Tetrachlorophenol	1000	POS PARK	mg/kg	0	mg/kg				< 0.1						< 0.1				< 0.1										

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	AEC17-H24-TP101	AEC17-H24-TP102	AEC17-H24-TP102	AEC17-H24-TP102	AEC17-H24-TP102	AEC17-H24-TP104	AEC17-H24-TP104	AEC17-H24-TP104	AEC17-H24-TP105	AEC17-H24-TP105	AEC17-H24-TP105	AEC17-H24-TP105	AEC17-H24-TP105	AEC17-H24-TP107	AEC17-H24-TP107	AEC17-H24-TP107	AEC17-H24-TP107	AEC17-H24-TP107	AEC17-H24-WS101	AEC17-H24-WS102	AEC17-H24-WS102	AEC17-H24-WS103	AEC17-H24-WS104	AEC17-H24-WS105	
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
O-Xylene	6603.1	Commercial	mg/kg	0	mg/kg				< 0.01						< 0.01				< 0.01	< 0.01										
2-Methylphenol	46100	POS PARK	mg/kg	0	mg/kg				< 0.1						< 0.1				< 0.1	< 0.1										
1,2-Dichlorobenzene	2020	Commercial	mg/kg	0	mg/kg				< 0.01						< 0.01				< 0.01	< 0.01										
2-Chlorophenol	1010	POS PARK	mg/kg	0	mg/kg				< 0.1						< 0.1				< 0.1	< 0.1										
1,2,4-Trimethylbenzene	39.4	Commercial	mg/kg	0	mg/kg				< 0.01						< 0.01				< 0.01	< 0.01										
2,4,5-Trichlorophenol	1010	POS PARK	mg/kg	0	mg/kg				< 0.1						< 0.1				< 0.1	< 0.1										
Isopropylbenzene	1300	Commercial	mg/kg	0	mg/kg				< 0.01						< 0.01				< 0.01	< 0.01										
4-Isopropyltoluene	1300	Commercial	mg/kg	0	mg/kg				< 0.01						< 0.01				< 0.01	< 0.01										
m,p xylenes	5923.3	Commercial	mg/kg	0	mg/kg				< 0.01						< 0.01		0.0		< 0.01	< 0.01										
Chromium - Hexavalent	220	POS PARK	mg/kg	0	mg/kg			< 1.0						< 1.0	< 1.0				< 1.0	< 1.0										
Cyanide Free	168	Commercial	mg/kg	0	mg/kg			< 0.1						< 0.1	< 0.1				< 0.1	< 0.1										
Complex Cyanide	3460	POS PARK	mg/kg	0	mg/kg			2.4						< 0.2	< 0.2				0.7	0.7										
4-Nitrophenol	7600000	POS PARK	ug/kg	0	ug/kg																									
Ethylbenzene	5705504.8	Commercial	ug/kg	0	ug/kg																									
Styrene	3170000	Commercial	ug/kg	0	ug/kg																									
n-Propylbenzene	3860000	Commercial	ug/kg	0	ug/kg																									
n-Butylbenzene	26597.9	Commercial	ug/kg	0	ug/kg																									
2,4-Dimethylphenol	9180000	POS PARK	ug/kg	0	ug/kg																									
4-Methylphenol	46000000	POS PARK	ug/kg	0	ug/kg																									
1,4-Dichlorobenzene	4220000	Commercial	ug/kg	0	ug/kg																									
1,2-Dichloroethane	671	Commercial	ug/kg	0	ug/kg																									
1,3,5-Trimethylbenzene	39400	Commercial	ug/kg	3	ug/kg																									
Bromobenzene	91500	Commercial	ug/kg	0	ug/kg																									
Toluene VOC	56293712.79	Commercial	ug/kg	0	ug/kg																									
Chlorobenzene	55600	Commercial	ug/kg	0	ug/kg																									
Phenol SVOC	7600000	POS PARK	ug/kg	0	ug/kg																									
Bis(2-chloroethoxy)methane	956	Commercial	ug/kg	1	ug/kg																									
Bis(2-ethylhexyl)phthalate	16600000	POS PARK	ug/kg	0	ug/kg																									
n-Diethylphthalate	20000000	POS PARK	ug/kg	0	ug/kg																									
Hexachlorobenzene	28900	POS PARK	ug/kg	0	ug/kg																									
1,2,4-Trichlorobenzene	215000	Commercial	ug/kg	0	ug/kg																									
2,4-Dichlorophenol	977000	POS PARK	ug/kg	0	ug/kg																									
2,4-Dinitrotoluene	928000	POS PARK	ug/kg	0	ug/kg																									
Dibromochloromethane	1960	Commercial	ug/kg	0	ug/kg																									
Tetrachloroethene	18600	Commercial	ug/kg	0	ug/kg																									
Dimethyl phthalate	2630000	POS PARK	ug/kg	0	ug/kg																									
Dibenzofuran	10800	POS PARK	ug/kg	5	ug/kg																									
sec-Butylbenzene	26597.8811	Commercial	ug/kg	0	ug/kg																									
cis 1,2-Dichloroethene	13600	Commercial	ug/kg	0	ug/kg																									
trans 1,2-Dichloroethene	20700	Commercial	ug/kg	0	ug/kg																									
Perylene	10800000	POS PARK	ug/kg	0	ug/kg																									
1,3-Dichlorobenzene	29900	Commercial	ug/kg	0	ug/kg																									
Carbon Tetrachloride	2870	Commercial	ug/kg	0	ug/kg																									
4-Chloro-3-methylphenol	46100000	POS PARK	ug/kg	0	ug/kg																									
2,6-Dinitrotoluene	468000	POS PARK	ug/kg	0	ug/kg																									
1,1,1,2-Tetrachloroethane	108000	Commercial	ug/kg	0	ug/kg																									
Chloroform	99100	Commercial	ug/kg	0	ug/kg																									
Hexachloroethane	20900000	Commercial	ug/kg	0	ug/kg																									
Benzene VOC	26597.9	Commercial	ug/kg	0	ug/kg																									
1,1,1-Trichloroethane	660000	Commercial	ug/kg	0	ug/kg																									
Barium	5770	POS PARK	mg/kg	0	mg/kg																									
Chloromethane	956000	Commercial	ug/kg	0	ug/kg																									
Chloroethane	90400000	Commercial	ug/kg	0	ug/kg																									

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	AEC17-H24-TP101	AEC17-H24-TP102	AEC17-H24-TP102	AEC17-H24-TP102	AEC17-H24-TP102	AEC17-H24-TP104	AEC17-H24-TP104	AEC17-H24-TP104	AEC17-H24-TP105	AEC17-H24-TP105	AEC17-H24-TP105	AEC17-H24-TP105	AEC17-H24-TP105	AEC17-H24-TP107	AEC17-H24-TP107	AEC17-H24-TP107	AEC17-H24-TP107	AEC17-H24-TP107	AEC17-H24-WS101	AEC17-H24-WS102	AEC17-H24-WS102	AEC17-H24-WS103	AEC17-H24-WS104	AEC17-H24-WS105
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Vinyl Chloride	59.4	Commercial	ug/kg	0	ug/kg																								
Dichloromethane VOC	257000000	Commercial	ug/kg	0	ug/kg																								
Carbon Disulphide	11000000	Commercial	ug/kg	0	ug/kg																								
Bromoform	714000	Commercial	ug/kg	0	ug/kg																								
Bromodichloromethane	1960	Commercial	ug/kg	0	ug/kg																								
1,1-Dichloroethane	263000	Commercial	ug/kg	0	ug/kg																								
1,1-Dichloroethene	24300	Commercial	ug/kg	0	ug/kg																								
Isophorone	26597881.1	Commercial	ug/kg	0	ug/kg																								
1,2-Dichloropropane	3130	Commercial	ug/kg	0	ug/kg																								
1,1,2-Trichloroethane	89100	Commercial	ug/kg	0	ug/kg																								
Trichloroethene	1230	Commercial	ug/kg	0	ug/kg																								
1,1,2,2-Tetrachloroethane	274000000	Commercial	ug/kg	0	ug/kg																								
Diethyl phthalate	89300000	POS PARK	ug/kg	0	ug/kg																								
n-Dibutylphthalate	2630000	POS PARK	ug/kg	0	ug/kg																								
Butylbenzyl phthalate SVOC	254000000	POS PARK	ug/kg	0	ug/kg																								
Carbazole	10800	POS PARK	ug/kg	2	ug/kg																								
1,2,3-Trichlorobenzene	102000	Commercial	ug/kg	0	ug/kg																								
Hexachlorobutadiene	30700	Commercial	ug/kg	0	ug/kg																								
Pentachlorophenol	113000	POS PARK	ug/kg	0	ug/kg																								
2,4,6-Trichlorophenol	1010000	POS PARK	ug/kg	0	ug/kg																								
2-Nitrophenol	7600000000	POS PARK	ug/kg	0	ug/kg																								
2-Methylnaphthalene (SVOC) DEFAULT	193000	Commercial	ug/kg	2	ug/kg																								
2-Chloronaphthalene	370000	Commercial	ug/kg	0	ug/kg																								
o-Xylene	6603100.7	Commercial	ug/kg	0	ug/kg																								
2-Methylphenol	46100000	POS PARK	ug/kg	0	ug/kg																								
1,2-Dichlorobenzene	2020000	Commercial	ug/kg	0	ug/kg																								
2-Chlorophenol	1010000	POS PARK	ug/kg	0	ug/kg																								
1,2,4-Trimethylbenzene	39400	Commercial	ug/kg	5	ug/kg																								
2,4,5-Trichlorophenol	1010000	POS PARK	ug/kg	0	ug/kg																								
Isopropylbenzene	1300000	Commercial	ug/kg	0	ug/kg																								
Nitrobenzene	26597881.1	Commercial	ug/kg	0	ug/kg																								
4-Isopropyltoluene	1300000	Commercial	ug/kg	0	ug/kg																								
m & p Xylene	5923262.7	Commercial	ug/kg	0	ug/kg																								
Aro >C8-C9	7220	POS PARK	mg/kg	0	mg/kg																								
Aro >C9-C10	7220	POS PARK	mg/kg	0	mg/kg																								
Tributyltin SUBCON I2	42400000	POS PARK	ug/kg	0	ug/kg																								
Atrazine SUBCON Alcontrol	379000000	POS Maintenance	ug/kg	0	ug/kg																								
Aldrin SUBCON Alcontrol	7800000	POS PARK	ug/kg	0	ug/kg																								
alpha-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	46500000	POS PARK	ug/kg	0	ug/kg																								
beta-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	13300000	POS PARK	ug/kg	0	ug/kg																								
Endosulphan II	1960000000	POS Maintenance	ug/kg	0	ug/kg																								
Dieldrin SUBCON Alcontrol	12900000	POS PARK	ug/kg	0	ug/kg																								
Dichlorvos	26000000	POS PARK	ug/kg	0	ug/kg																								
Endosulphan I	1950000000	POS Maintenance	ug/kg	0	ug/kg																								
Aro >C35-C44	7820	POS PARK	mg/kg	0	mg/kg																								
Ali >C35-C44	455000	POS PARK	mg/kg	0	mg/kg																								
Anthracene SVOC	149000000	POS PARK	ug/kg	0	ug/kg																								
Pyrene SVOC	15100000	POS PARK	ug/kg	0	ug/kg																								
Benzo(ghi)perylene SVOC	612000	POS Maintenance	ug/kg	0	ug/kg																								
Indeno(1,2,3-cd)pyrene SVOC	44000	POS Maintenance	ug/kg	1	ug/kg																								
Benzo(b)fluoranthene SVOC	13200	POS PARK	ug/kg	7	ug/kg																								
Fluoranthene SVOC	6300000	POS PARK	ug/kg	0	ug/kg																								

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	AEC17-H24-TP101	AEC17-H24-TP102	AEC17-H24-TP102	AEC17-H24-TP102	AEC17-H24-TP102	AEC17-H24-TP104	AEC17-H24-TP104	AEC17-H24-TP104	AEC17-H24-TP105	AEC17-H24-TP105	AEC17-H24-TP105	AEC17-H24-TP105	AEC17-H24-TP105	AEC17-H24-TP107	AEC17-H24-TP107	AEC17-H24-TP107	AEC17-H24-TP107	AEC17-H24-TP107	AEC17-H24-WS101	AEC17-H24-WS102	AEC17-H24-WS102	AEC17-H24-WS103	AEC17-H24-WS104	AEC17-H24-WS105
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Benzo(k)fluoranthene SVOC	114000	POS Maintenance	ug/kg	0	ug/kg																								
Acenaphthylene SVOC	28900000	POS PARK	ug/kg	0	ug/kg																								
Chrysene SVOC	91000	POS Maintenance	ug/kg	1	ug/kg																								
Benzo(a)pyrene SVOC	10800	POS PARK	ug/kg	8	ug/kg																								
Dibenzo(ah)anthracene SVOC	1150	POS PARK	ug/kg	10	ug/kg																								
Benzo(a)anthracene SVOC	48800	POS PARK	ug/kg	2	ug/kg																								
Acenaphthene SVOC	28900000	POS PARK	ug/kg	0	ug/kg																								
Phenanthrene SVOC	6170000	POS PARK	ug/kg	0	ug/kg																								
Fluorene SVOC	19600000	POS PARK	ug/kg	0	ug/kg																								
Naphthalene SVOC	193000	Commercial	ug/kg	1	ug/kg																								
Xylenols	9180	POS PARK	mg/kg	0	mg/kg																								
Cresols	46100	POS PARK	mg/kg	0	mg/kg																								
Tributyltin	42400	POS PARK	mg/kg	0	mg/kg																								
Methyl tert-butyl ether (MTBE)	7480000	Commercial	ug/kg	0	ug/kg																								
Aromatics >C6-7	27000000	Commercial	ug/kg	0	ug/kg																								
Aromatics >C7-8	56293712.8	Commercial	ug/kg	0	ug/kg																								
Aromatics >C8-10	3460000	Commercial	ug/kg	0	ug/kg																								
Aromatics >C10-12	9240000	POS PARK	ug/kg	0	ug/kg																								
Aromatics >C12-16	10200000	POS PARK	ug/kg	0	ug/kg																								
Aromatics >C16-21	7630000	POS PARK	ug/kg	0	ug/kg																								
Aromatics >C21-35	7820000	POS PARK	ug/kg	1	ug/kg																								
Aromatics >C35-44	7820000	POS PARK	ug/kg	0	ug/kg																								
Aliphatics >C5-6	3190000	Commercial	ug/kg	0	ug/kg																								
Aliphatics >C6-8	7780000	Commercial	ug/kg	0	ug/kg																								
Aliphatics >C8-10	2000000	Commercial	ug/kg	1	ug/kg																								
Aliphatics >C10-12	9690000	Commercial	ug/kg	0	ug/kg																								
Aliphatics >C12-16	24700000	POS PARK	ug/kg	0	ug/kg																								
Aliphatics >C16-21	455000000	POS PARK	ug/kg	0	ug/kg																								
Aliphatics >C21-35	455000000	POS PARK	ug/kg	0	ug/kg																								
Aliphatics >C35-44	455000000	POS PARK	ug/kg	0	ug/kg																								
Trivalent Chromium	33000	POS PARK	mg/kg	0	mg/kg																								
Molybdenum	2890	POS PARK	mg/kg	0	mg/kg																								
4-Nitroaniline	10800	POS PARK	ug/kg	0	ug/kg																								
Azobenzene	10800	POS PARK	ug/kg	0	ug/kg																								
4-Chloroaniline	10800000	POS PARK	ug/kg	0	ug/kg																								
2-Nitroaniline	10800	POS PARK	ug/kg	0	ug/kg																								

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	ARP16-CP-BH01	ARP16-CP-BH01	ARP16-CP-BH01	ARP16-CP-BH01	ARP16-CP-BH02	ARP16-CP-BH02	ARP16-CP-BH02	ARP16-CP-BH04	ARP16-CP-BH04	ARP16-CP-BH04	ARP16-CP-BH04	ARP16-CP-BH06	ARP16-CP-BH06	ARP16-CP-BH07	ARP16-CP-BH07	ARP16-CP-BH07	ARP16-CP-BH08	ARP16-CP-BH08	ARP16-CP-BH08	ARP16-CP-BH08	ARP16-CP-BH11	ARP16-CP-BH11	ARP16-CP-BH13	ARP16-CP-BH15
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Ethylbenzene	5705.5	Commercial	mg/kg	0	mg/kg	<0.01			<0.01	<0.01					<0.01	<0.01		<0.01		<0.01	<0.01	<0.01			<0.01	<0.01	<0.01		
Toluene	56293.7	Commercial	mg/kg	0	mg/kg	<0.01			<0.01	<0.01					<0.01	<0.01		<0.01		<0.01	<0.01	<0.01			<0.01	<0.01	<0.01		
Anthracene	149000	POS PARK	mg/kg	0	mg/kg	6.5	0.8	4.7	0.1	1.3	0.0	<0.02	0.2	0.2	0.9	<0.02	<0.02	<0.02	<0.02	0.5	<0.02	0.0	0.1	0.3	<0.02	<0.02	<0.02		<0.02
Pyrene	15100	POS PARK	mg/kg	0	mg/kg	24.3	3.3	13.8	0.2	7.5	0.3	<0.07	0.9	1.2	2.9	<0.07	0.2	<0.07	0.2	2.2	<0.07	0.2	0.4	1.2	<0.07	<0.07	<0.07		<0.07
Xylene	6603.1	Commercial	mg/kg	0	mg/kg																								
Benzo (g,h,i) perylene	612	POS Maintenance	mg/kg	0	mg/kg	6.2	1.1	3.1	<0.05	1.1	0.1	<0.05	0.2	0.4	0.5	<0.05	0.1	<0.05	0.1	0.6	<0.05	0.1	0.2	0.2	<0.05	<0.05	<0.05		<0.05
Indeno(1,2,3-cd)pyrene	44	POS Maintenance	mg/kg	0	mg/kg	8.0	1.3	3.8	0.1	1.3	0.1	<0.03	0.3	0.6	0.7	<0.03	0.1	<0.03	0.2	0.7	<0.03	0.1	0.2	0.3	<0.03	<0.03	<0.03		<0.03
Benzo(b)fluoranthene	13.2	POS PARK	mg/kg	4	mg/kg	11.2	1.9	5.9	0.1	2.4	0.2	<0.05	0.5	0.8	1.1	<0.05	0.2	<0.05	0.2	1.1	<0.05	0.2	0.3	0.6	<0.05	<0.05	<0.05		<0.05
Fluoranthene	6300	POS PARK	mg/kg	0	mg/kg	27.6	3.9	16.4	0.3	8.2	0.4	<0.08	1.1	1.7	3.8	<0.08	0.2	<0.08	0.2	2.5	<0.08	0.2	0.5	1.4	<0.08	<0.08	<0.08		<0.08
Benzo(k)fluoranthene	114	POS Maintenance	mg/kg	0	mg/kg	4.7	0.7	2.6	<0.07	0.9	0.1	<0.07	0.2	0.4	0.5	<0.07	<0.07	<0.07	0.1	0.4	<0.07	<0.07	0.1	0.2	<0.07	<0.07	<0.07		<0.07
Acenaphthylene	28900	POS PARK	mg/kg	0	mg/kg	0.1	0.0	0.1	<0.01	0.0	<0.01	<0.01	<0.01	0.0	0.0	<0.01	<0.01	<0.01	<0.01	0.0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		<0.01
Chrysene	91	POS Maintenance	mg/kg	0	mg/kg	11.9	1.8	6.0	0.1	2.8	0.2	<0.06	0.5	0.9	1.4	<0.06	0.1	<0.06	0.2	1.2	<0.06	0.1	0.3	0.6	<0.06	<0.06	<0.06		<0.06
Benzo(a)pyrene	10.8	POS PARK	mg/kg	4	mg/kg	10.7	1.7	5.5	0.1	2.0	0.1	<0.04	0.4	0.8	1.0	<0.04	0.1	<0.04	0.2	1.0	<0.04	0.1	0.3	0.4	<0.04	<0.04	<0.04		<0.04
Dibenz-a-h-anthracene	1.15	POS PARK	mg/kg	5	mg/kg	1.3	0.2	0.7	<0.04	0.2	<0.04	<0.04	0.1	0.1	0.1	<0.04	<0.04	<0.04	<0.04	0.1	<0.04	<0.04	<0.04	0.1	<0.04	<0.04	<0.04		<0.04
Benzo(a)anthracene	48.8	POS PARK	mg/kg	0	mg/kg	13.4	1.9	7.5	0.1	3.2	0.2	<0.04	0.5	0.7	1.4	<0.04	0.1	<0.04	0.1	1.1	<0.04	0.1	0.2	0.6	<0.04	<0.04	<0.04		<0.04
Cyanide	24	POS PARK	mg/kg	5	mg/kg																								
Benzene	26.60	Commercial	mg/kg	0	mg/kg	<0.01			<0.01	<0.01					<0.01	<0.01		<0.01		<0.01	<0.01	<0.01			<0.01	<0.01	<0.01		
Lead	1300	POS PARK	mg/kg	13	mg/kg	42.0	31.0	102.0	17.0	31.0	34.0	16.0	36.0	335.0	46.0	15.0	53.0	25.0	26.0	46.0	19.0	44.0	219.0	20.0	17.0	36.0	19.0	32.0	18.0
Mercury	244	POS PARK	mg/kg	0	mg/kg	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	0.2	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17
Nickel	804	POS PARK	mg/kg	8	mg/kg	13.0	18.0	16.0	14.0	11.0	13.0	38.0	8.0	14.0	8.0	19.0	34.0	43.0	21.0	16.0	16.0	17.0	19.0	20.0	23.0	21.0	8.0	11.0	21.0
Antimony	3290	POS PARK	mg/kg	0	mg/kg																								
Arsenic	168	POS PARK	mg/kg	0	mg/kg	5.0	5.0	6.0	6.0	5.0	6.0	2.0	5.0	8.0	6.0	14.0	11.0	8.0	10.0	8.0	6.0	5.0	7.0	8.0	10.0	6.0	6.0	7.0	10.0
Beryllium	11.7	Commercial	mg/kg	1	mg/kg	1.0	1.0	1.0	1.0	1.0	1.0	3.0	<1	<1	<1	1.0	3.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Boron	46200	POS PARK	mg/kg	0	mg/kg	<1.0	<1.0	<1.0	<1.0	2.0	1.5	<1.0	<1.0	3.9	2.3	<1.0	1.8	1.7	1.0	1.5	<1.0	<1.0	<1.0	1.2	<1.0			<1.0	
Cadmium	190	Commercial	mg/kg	0	mg/kg	0.9	1.0	1.0	1.2	0.7	1.2	1.5	<0.5	<0.5	<0.5	1.4	2.2	2.0	1.6	2.9	1.2	1.0	1.4	1.4	2.1	1.5	1.1	0.5	1.8
Chromium	8570	Commercial	mg/kg	1	mg/kg	17.0	23.0	21.0	34.0	16.0	21.0	28.0	12.0	20.0	12.0	26.0	37.0	37.0	31.0	18.0	29.0	20.0	30.0	24.0	48.0	26.0	25.0	20.0	32.0
Copper	44400	POS PARK	mg/kg	2	mg/kg	40.0	94.0	17.0	8.0	12.0	43.0	21.0	10.0	27.0	8.0	12.0	69.0	16.0	16.0	20.0	6.0	18.0	17.0	15.0	11.0	15.0	3.0	14.0	9.0
Vanadium	2820	POS Maintenance	mg/kg	0	mg/kg	36.0	38.0	36.0	45.0	28.0	45.0	43.0	18.0	33.0	21.0	37.0	48.0	54.0	45.0	32.0	37.0	34.0	43.0	41.0	62.0		26.0		
Zinc	173000	POS PARK	mg/kg	0	mg/kg	45.0	51.0	45.0	25.0	55.0	50.0	68.0	40.0	141.0	47.0	43.0	121.0	86.0	58.0	68.0	34.0	74.0	65.0	54.0	49.0	63.0	18.0	44.0	59.0
Selenium	1850	POS PARK	mg/kg	0	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.0	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Acenaphthene	28900	POS PARK	mg/kg	0	mg/kg	2.9	0.4	2.3	0.0	0.4	0.0	<0.01	0.2	0.1	0.6	<0.01	<0.01	<0.01	<0.01	0.5	<0.01	<0.01	0.0	0.1	<0.01	<0.01	<0.01	<0.01	<0.01
Phenanthrene	6170	POS PARK	mg/kg	0	mg/kg	19.5	2.2	13.0	0.2	4.8	0.2	<0.03	0.9	0.7	3.4	0.1	0.1	<0.03	<0.03	1.8	<0.03	0.1	0.3	1.0	<0.03	<0.03	<0.03		<0.03
Fluorene	19600	POS PARK	mg/kg	0	mg/kg	2.2	0.3	2.0	0.0	0.4	0.0	<0.01	0.1	0.1	0.6	<0.01	<0.01	<0.01	<0.01	0.4	<0.01	<0.01	0.0	0.2	<0.01	<0.01	<0.01		<0.01
Napthalene	193	Commercial	mg/kg	0	mg/kg	0.8	0.1	0.7	<0.03	0.1	<0.03	<0.03	0.0	0.0	0.2	<0.03	<0.03	<0.03	<0.03	0.2	<0.03	<0.03	<0.03	0.0	<0.03	<0.03	<0.03		<0.03
Phenol (Monohydric)	7600	POS Maintenance	mg/kg	0	mg/kg																								
Aromatics >C7-8	56293.7	Commercial	mg/kg	0	mg/kg	<0.01			<0.01	<0.01					<0.01	<0.01		<0.01		<0.01	<0.01	<0.01			<0.01	<0.01	<0.01		
Aromatics >C8-10	3460	Commercial	mg/kg	0	mg/kg																								
Aromatics >C10-12	9240	POS PARK	mg/kg	0	mg/kg	<0.1			<0.1	<0.1					<0.1	<0.1		<0.1		<0.1	<0.1	<0.1			<0.1	<0.1	<0.1		
Aromatics >C12-16	10200	POS PARK	mg/kg	0	mg/kg	2.7			<0.1	1.9					8.2	<0.1		<0.1		<0.1	<0.1	<0.1			<0.1	<0.1	<0.1		
Aromatics >C16-21	7630	POS PARK	mg/kg	0	mg/kg	20.8			<0.1	8.9					19.4	<0.1		<0.1		3.6	<0.1	<0.1			<0.1	<0.1	<0.1		
Aromatics >C21-35	7820	POS PARK	mg/kg	0	mg/kg	78.3			<0.1	30.1					36.4	<0.1		<0.1		13.9	<0.1	<0.1			<0.1	<0.1	<0.1		
Aliphatics >C5-6	3190	Commercial	mg/kg	0	mg/kg	<0.01			<0.01	<0.01					<0.01	<0.01		<0.01		<0.01	<0.01	<0.01			<0.01	<0.01	<0.01		
Aliphatics >C6-8	7780	Commercial	mg/kg	0	mg/kg	<0.01																							

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	ARP16-CP-BH01	ARP16-CP-BH01	ARP16-CP-BH01	ARP16-CP-BH01	ARP16-CP-BH02	ARP16-CP-BH02	ARP16-CP-BH02	ARP16-CP-BH04	ARP16-CP-BH04	ARP16-CP-BH04	ARP16-CP-BH04	ARP16-CP-BH06	ARP16-CP-BH06	ARP16-CP-BH07	ARP16-CP-BH07	ARP16-CP-BH07	ARP16-CP-BH08	ARP16-CP-BH08	ARP16-CP-BH08	ARP16-CP-BH08	ARP16-CP-BH11	ARP16-CP-BH11	ARP16-CP-BH13	ARP16-CP-BH15
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
n-propylbenzene	3860	Commercial	mg/kg	0	mg/kg																								
n-Butylbenzene	26.598	Commercial	mg/kg	0	mg/kg																								
2,4-Dimethylphenol	9180	POS PARK	mg/kg	0	mg/kg																								
3/4 Methylphenol	46000	POS PARK	mg/kg	0	mg/kg																								
1,4-Dichlorobenzene	4220	Commercial	mg/kg	0	mg/kg																								
1,2-Dichloroethane	0.671	Commercial	mg/kg	0	mg/kg																								
1,3,5-Trimethylbenzene	39.4	Commercial	mg/kg	0	mg/kg																								
Bromobenzene	91.5	Commercial	mg/kg	0	mg/kg																								
Chlorobenzene	55.6	Commercial	mg/kg	0	mg/kg																								
Phenol	7600	POS PARK	mg/kg	0	mg/kg																								
Bis(2-chloroethoxy)methane	0.956	Commercial	mg/kg	0	mg/kg																								
Bis(2-ethylhexyl)phthalate	16600	POS PARK	mg/kg	0	mg/kg																								
Di-N-Octyl Phthalate	20000	POS PARK	mg/kg	0	mg/kg																								
Hexachlorobenzene (HCB)	28.9	POS PARK	mg/kg	0	mg/kg																								
1,2,4-Trichlorobenzene	215	Commercial	mg/kg	0	mg/kg																								
2,4-Dichlorophenol	977	POS PARK	mg/kg	0	mg/kg																								
2,4-Dinitrotoluene	928	POS PARK	mg/kg	0	mg/kg																								
Dibromochloromethane	1.96	Commercial	mg/kg	0	mg/kg																								
Tetrachloroethene	18.6	Commercial	mg/kg	0	mg/kg																								
Dimethylphthalate	2630	POS PARK	mg/kg	0	mg/kg																								
Dibenzofuran	10.8	POS PARK	mg/kg	0	mg/kg																								
Sec-Butylbenzene	26.6	Commercial	mg/kg	0	mg/kg																								
cis-1,2-Dichloroethene	13.6	Commercial	mg/kg	0	mg/kg																								
trans-1,2-Dichloroethene	20.7	Commercial	mg/kg	0	mg/kg																								
Methyl tert-butyl ether (MTBE)	7480	Commercial	mg/kg	0	mg/kg	<0.01			<0.01	<0.01				<0.01	<0.01			<0.01			<0.01	<0.01	<0.01			<0.01	<0.01	<0.01	
1,3-Dichlorobenzene	29.9	Commercial	mg/kg	0	mg/kg																								
Tetrachloromethane (Carbon Tetra Chloride)	2.87	Commercial	mg/kg	0	mg/kg																								
2,3,4,6-Tetrachlorophenol	1000	POS PARK	mg/kg	0	mg/kg																								
4-Chloro-3-Methylphenol	46100	POS PARK	mg/kg	0	mg/kg																								
2,6-Dinitrotoluene	468	POS PARK	mg/kg	0	mg/kg																								
1,1,1,2-Tetrachloroethane	108	Commercial	mg/kg	0	mg/kg																								
Chloroform	99.1	Commercial	mg/kg	0	mg/kg																								
1,1,1-Trichloroethane	660	Commercial	mg/kg	0	mg/kg																								
Chloroethene	0.0594	Commercial	mg/kg	0	mg/kg																								
Tribromomethane	714	Commercial	mg/kg	0	mg/kg																								
Bromodichloromethane	1.96	Commercial	mg/kg	0	mg/kg																								
1,1-Dichloroethane	263	Commercial	mg/kg	0	mg/kg																								
1,1-Dichloroethene	24.3	Commercial	mg/kg	0	mg/kg																								
1,2-Dichloropropane	3.13	Commercial	mg/kg	0	mg/kg																								
1,1,2-Trichloroethane	89.1	Commercial	mg/kg	0	mg/kg																								
Trichloroethene	1.23	Commercial	mg/kg	0	mg/kg																								
Diethylphthalate	89300	POS PARK	mg/kg	0	mg/kg																								
Di-N-Butyl Phthalate	2630	POS PARK	mg/kg	0	mg/kg																								
Butylbenzylphthalate	254000	POS PARK	mg/kg	0	mg/kg																								
Carbazole	10.8	POS PARK	mg/kg	0	mg/kg																								
1,2,3 Trichlorobenzene	102	Commercial	mg/kg	0	mg/kg																								
Hexachlorobutadiene (HCBD)	30.7	Commercial	mg/kg	0	mg/kg																								
Pentachlorophenol (PCP)	113	POS PARK	mg/kg	0	mg/kg																								
2,4,6-Trichlorophenol	1010	POS PARK	mg/kg	0	mg/kg																								
2-Nitroaniline	10.8	POS PARK	mg/kg	0	mg/kg																								
2-Methylnaphthalene	193	Commercial	mg/kg	0	mg/kg																								
2-Chloronaphthalene	370	Commercial	mg/kg	0	mg/kg																								
2,3,5,6-Tetrachlorophenol	1000	POS PARK	mg/kg	0	mg/kg																								

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	ARP16-CP-BH01	ARP16-CP-BH01	ARP16-CP-BH01	ARP16-CP-BH01	ARP16-CP-BH02	ARP16-CP-BH02	ARP16-CP-BH02	ARP16-CP-BH04	ARP16-CP-BH04	ARP16-CP-BH04	ARP16-CP-BH04	ARP16-CP-BH06	ARP16-CP-BH06	ARP16-CP-BH07	ARP16-CP-BH07	ARP16-CP-BH07	ARP16-CP-BH08	ARP16-CP-BH08	ARP16-CP-BH08	ARP16-CP-BH08	ARP16-CP-BH11	ARP16-CP-BH11	ARP16-CP-BH13	ARP16-CP-BH15
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
O-Xylene	6603.1	Commercial	mg/kg	0	mg/kg	<0.01			<0.01	<0.01					<0.01	<0.01		<0.01		<0.01	<0.01	<0.01			<0.01	<0.01	<0.01		
2-Methylphenol	46100	POS PARK	mg/kg	0	mg/kg																								
1,2-Dichlorobenzene	2020	Commercial	mg/kg	0	mg/kg																								
2-Chlorophenol	1010	POS PARK	mg/kg	0	mg/kg																								
1,2,4-Trimethylbenzene	39.4	Commercial	mg/kg	0	mg/kg																								
2,4,5-Trichlorophenol	1010	POS PARK	mg/kg	0	mg/kg																								
Isopropylbenzene	1300	Commercial	mg/kg	0	mg/kg																								
4-Isopropyltoluene	1300	Commercial	mg/kg	0	mg/kg																								
m,p xylenes	5923.3	Commercial	mg/kg	0	mg/kg	<0.01			<0.01	<0.01					<0.01	<0.01		<0.01		<0.01	<0.01	<0.01			<0.01	<0.01	<0.01		
Chromium - Hexavalent	220	POS PARK	mg/kg	0	mg/kg																								
Cyanide Free	168	Commercial	mg/kg	0	mg/kg																								
Complex Cyanide	3460	POS PARK	mg/kg	0	mg/kg																								
4-Nitrophenol	7600000	POS PARK	ug/kg	0	ug/kg	<100				<100											<100								
Ethylbenzene	5705504.8	Commercial	ug/kg	0	ug/kg	<1				<1					<1						4.0								
Styrene	3170000	Commercial	ug/kg	0	ug/kg	<1				<1					<1						6.0								
n-Propylbenzene	3860000	Commercial	ug/kg	0	ug/kg	<1				<1					<1						<1								
n-Butylbenzene	26597.9	Commercial	ug/kg	0	ug/kg	<1				<1					<1						<1								
2,4-Dimethylphenol	9180000	POS PARK	ug/kg	0	ug/kg	207.0				<100											<100								
4-Methylphenol	46000000	POS PARK	ug/kg	0	ug/kg	164.0				<100											<100								
1,4-Dichlorobenzene	4220000	Commercial	ug/kg	0	ug/kg	<1				<1					<1						<1								
1,2-Dichloroethane	671	Commercial	ug/kg	0	ug/kg	<2				<2					<2						<2								
1,3,5-Trimethylbenzene	39400	Commercial	ug/kg	3	ug/kg	<1				<1					<1						<1								
Bromobenzene	91500	Commercial	ug/kg	0	ug/kg	<1				<1					<1						<1								
Toluene VOC	56293712.79	Commercial	ug/kg	0	ug/kg	<1				<1					<1						<1								
Chlorobenzene	55600	Commercial	ug/kg	0	ug/kg	<1				<1					<1						<1								
Phenol SVOC	7600000	POS PARK	ug/kg	0	ug/kg	111.0				<100					<100						<100								
Bis(2-chloroethoxy)methane	956	Commercial	ug/kg	1	ug/kg	<100				<100					<100						<100								
Bis(2-ethylhexyl)phthalate	16600000	POS PARK	ug/kg	0	ug/kg	<100				<100					<100						<100								
n-Diethylphthalate	20000000	POS PARK	ug/kg	0	ug/kg	109.0				247.0											276.0								
Hexachlorobenzene	28900	POS PARK	ug/kg	0	ug/kg	<100				<100					<100						<100								
1,2,4-Trichlorobenzene	215000	Commercial	ug/kg	0	ug/kg	<3				<3					<3						<3								
2,4-Dichlorophenol	977000	POS PARK	ug/kg	0	ug/kg	<100				<100					<100						<100								
2,4-Dinitrotoluene	928000	POS PARK	ug/kg	0	ug/kg	<100				<100					<100						<100								
Dibromochloromethane	1960	Commercial	ug/kg	0	ug/kg	<3				<3					<3						<3								
Tetrachloroethene	18600	Commercial	ug/kg	0	ug/kg	<1				<1					<1						<1								
Dimethyl phthalate	2630000	POS PARK	ug/kg	0	ug/kg	<100				<100					<100						<100								
Dibenzofuran	10800	POS PARK	ug/kg	5	ug/kg	3680.0				298.0											315.0								
sec-Butylbenzene	26597.8811	Commercial	ug/kg	0	ug/kg	<1				<1					<1						<1								
cis 1,2-Dichloroethene	13600	Commercial	ug/kg	0	ug/kg	<1				<1					<1						<1								
trans 1,2-Dichloroethene	20700	Commercial	ug/kg	0	ug/kg	<1				<1					<1						<1								
Perylene	10800000	POS PARK	ug/kg	0	ug/kg	5820.0				295.0											401.0								
1,3-Dichlorobenzene	29900	Commercial	ug/kg	0	ug/kg	<1				<1					<1						<1								
Carbon Tetrachloride	2870	Commercial	ug/kg	0	ug/kg	<1				<1					<1						<1								
4-Chloro-3-methylphenol	46100000	POS PARK	ug/kg	0	ug/kg	<100				<100					<100						<100								
2,6-Dinitrotoluene	468000	POS PARK	ug/kg	0	ug/kg	<100				<100					<100						<100								
1,1,1,2-Tetrachloroethane	108000	Commercial	ug/kg	0	ug/kg	<1				<1					<1						<1								
Chloroform	99100	Commercial	ug/kg	0	ug/kg	<1				<1					<1						<1								
Hexachloroethane	20900000	Commercial	ug/kg	0	ug/kg	<100				<100					<100						<100								
Benzene VOC	26597.9	Commercial	ug/kg	0	ug/kg	<1				<1					<1						<1								
1,1,1-Trichloroethane	660000	Commercial	ug/kg	0	ug/kg	<1				<1					<1						<1								
Barium	5770	POS PARK	mg/kg	0	mg/kg	55.0	51.0	57.0	43.0	67.0	78.0	99.0	67.0	135.0	42.0	36.0	259.0	100.0	63.0	71.0	54.0	54.0	91.0	69.0	75.0			64.0	
Chloromethane	956000	Commercial	ug/kg	0	ug/kg	<10				<10					<10						<10								
Chloroethane	90400000	Commercial	ug/kg	0	ug/kg	<1				<1					<1						<1								

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	ARP16-CP-BH01	ARP16-CP-BH01	ARP16-CP-BH01	ARP16-CP-BH01	ARP16-CP-BH02	ARP16-CP-BH02	ARP16-CP-BH02	ARP16-CP-BH04	ARP16-CP-BH04	ARP16-CP-BH04	ARP16-CP-BH04	ARP16-CP-BH06	ARP16-CP-BH06	ARP16-CP-BH07	ARP16-CP-BH07	ARP16-CP-BH07	ARP16-CP-BH08	ARP16-CP-BH08	ARP16-CP-BH08	ARP16-CP-BH08	ARP16-CP-BH11	ARP16-CP-BH11	ARP16-CP-BH13	ARP16-CP-BH15
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Vinyl Chloride	59.4	Commercial	ug/kg	0	ug/kg	<1				<1					<1					<1									
Dichloromethane VOC	257000000	Commercial	ug/kg	0	ug/kg	<5				<5					<5					<5									
Carbon Disulphide	11000000	Commercial	ug/kg	0	ug/kg	<1				<1					<1					2.0									
Bromoform	714000	Commercial	ug/kg	0	ug/kg	<1				<1					<1					<1									
Bromodichloromethane	1960	Commercial	ug/kg	0	ug/kg	<10				<10					<10					<10									
1,1-Dichloroethane	263000	Commercial	ug/kg	0	ug/kg	<1				<1					<1					<1									
1,1-Dichloroethene	24300	Commercial	ug/kg	0	ug/kg	<1				<1					<1					<1									
Isophorone	26597881.1	Commercial	ug/kg	0	ug/kg	<100				<100										<100									
1,2-Dichloropropane	3130	Commercial	ug/kg	0	ug/kg	<1				<1					<1					<1									
1,1,2-Trichloroethane	89100	Commercial	ug/kg	0	ug/kg	<1				<1					<1					<1									
Trichloroethene	1230	Commercial	ug/kg	0	ug/kg	<1				<1					<1					<1									
1,1,2,2-Tetrachloroethane	274000000	Commercial	ug/kg	0	ug/kg	<1				<1					<1					<1									
Diethyl phthalate	89300000	POS PARK	ug/kg	0	ug/kg	<100				<100										<100									
n-Dibutylphthalate	2630000	POS PARK	ug/kg	0	ug/kg	<100				288.0										880.0									
Butylbenzyl phthalate SVOC	254000000	POS PARK	ug/kg	0	ug/kg	<100				<100										<100									
Carbazole	10800	POS PARK	ug/kg	2	ug/kg	2900.0				808.0										964.0									
1,2,3-Trichlorobenzene	102000	Commercial	ug/kg	0	ug/kg	<3				<3					<3					<3									
Hexachlorobutadiene	30700	Commercial	ug/kg	0	ug/kg	<1				<1					<1					<1									
Pentachlorophenol	113000	POS PARK	ug/kg	0	ug/kg	<100				<100										<100									
2,4,6-Trichlorophenol	1010000	POS PARK	ug/kg	0	ug/kg	<100				<100										<100									
2-Nitrophenol	7600000000	POS PARK	ug/kg	0	ug/kg	<100				<100										<100									
2-Methylnaphthalene (SVOC) DEFAULT	193000	Commercial	ug/kg	2	ug/kg	851.0				<100										113.0									
2-Chloronaphthalene	370000	Commercial	ug/kg	0	ug/kg	<100				<100										<100									
o-Xylene	6603100.7	Commercial	ug/kg	0	ug/kg	<1				<1					<1					3.0									
2-Methylphenol	46100000	POS PARK	ug/kg	0	ug/kg	<100				<100										<100									
1,2-Dichlorobenzene	2020000	Commercial	ug/kg	0	ug/kg	<1				<1					<1					<1									
2-Chlorophenol	1010000	POS PARK	ug/kg	0	ug/kg	<100				<100										<100									
1,2,4-Trimethylbenzene	39400	Commercial	ug/kg	5	ug/kg	<1				<1					<1					4.0									
2,4,5-Trichlorophenol	1010000	POS PARK	ug/kg	0	ug/kg	<100				<100										<100									
Isopropylbenzene	1300000	Commercial	ug/kg	0	ug/kg	<1				<1					<1					<1									
Nitrobenzene	26597881.1	Commercial	ug/kg	0	ug/kg	<100				<100										<100									
4-Isopropyltoluene	1300000	Commercial	ug/kg	0	ug/kg	<1				<1					<1					<1									
m & p Xylene	5923262.7	Commercial	ug/kg	0	ug/kg	<1				<1					<1					7.0									
Aro >C8-C9	7220	POS PARK	mg/kg	0	mg/kg	<0.01			<0.01	<0.01					<0.01	<0.01		<0.01		0.0	<0.01	<0.01			<0.01	<0.01	<0.01		
Aro >C9-C10	7220	POS PARK	mg/kg	0	mg/kg	<0.01			<0.01	<0.01					<0.01	<0.01		<0.01		0.0	<0.01	<0.01			<0.01	<0.01	<0.01		
Tributyltin SUBCON I2	42400000	POS PARK	ug/kg	0	ug/kg																								
Atrazine SUBCON Alcontrol	379000000	POS Maintenance	ug/kg	0	ug/kg																								
Aldrin SUBCON Alcontrol	7800000	POS PARK	ug/kg	0	ug/kg																								
alpha-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	46500000	POS PARK	ug/kg	0	ug/kg																								
beta-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	13300000	POS PARK	ug/kg	0	ug/kg																								
Endosulphan II	1960000000	POS Maintenance	ug/kg	0	ug/kg																								
Dieldrin SUBCON Alcontrol	12900000	POS PARK	ug/kg	0	ug/kg																								
Dichlorvos	26000000	POS PARK	ug/kg	0	ug/kg																								
Endosulphan I	1950000000	POS Maintenance	ug/kg	0	ug/kg																								
Aro >C35-C44	7820	POS PARK	mg/kg	0	mg/kg																								
Ali >C35-C44	455000	POS PARK	mg/kg	0	mg/kg																								
Anthracene SVOC	149000000	POS PARK	ug/kg	0	ug/kg																								
Pyrene SVOC	15100000	POS PARK	ug/kg	0	ug/kg																								
Benzo(ghi)perylene SVOC	612000	POS Maintenance	ug/kg	0	ug/kg																								
Indeno(1,2,3-cd)pyrene SVOC	44000	POS Maintenance	ug/kg	1	ug/kg																								
Benzo(b)fluoranthene SVOC	13200	POS PARK	ug/kg	7	ug/kg																								
Fluoranthene SVOC	6300000	POS PARK	ug/kg	0	ug/kg																								

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	ARP16-CP-BH01	ARP16-CP-BH01	ARP16-CP-BH01	ARP16-CP-BH01	ARP16-CP-BH02	ARP16-CP-BH02	ARP16-CP-BH02	ARP16-CP-BH04	ARP16-CP-BH04	ARP16-CP-BH04	ARP16-CP-BH04	ARP16-CP-BH06	ARP16-CP-BH06	ARP16-CP-BH07	ARP16-CP-BH07	ARP16-CP-BH07	ARP16-CP-BH08	ARP16-CP-BH08	ARP16-CP-BH08	ARP16-CP-BH08	ARP16-CP-BH11	ARP16-CP-BH11	ARP16-CP-BH13	ARP16-CP-BH15
					Sample Top	Sample Ref	Sample Type	0.30	0.70	1.20	3.50	0.20	1.30	2.30	0.10	0.30	0.65	3.15	0.10	0.95	0.20	2.50	6.05	1.00	3.60	5.00	5.60	0.20	3.00
Benzo(k)fluoranthene SVOC	114000	POS Maintenance	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Acenaphthylene SVOC	28900000	POS PARK	ug/kg	0																									
Chrysene SVOC	91000	POS Maintenance	ug/kg	1																									
Benzo(a)pyrene SVOC	10800	POS PARK	ug/kg	8																									
Dibenzo(ah)anthracene SVOC	1150	POS PARK	ug/kg	10																									
Benzo(a)anthracene SVOC	48800	POS PARK	ug/kg	2																									
Acenaphthene SVOC	28900000	POS PARK	ug/kg	0																									
Phenanthrene SVOC	6170000	POS PARK	ug/kg	0																									
Fluorene SVOC	19600000	POS PARK	ug/kg	0																									
Naphthalene SVOC	193000	Commercial	ug/kg	1																									
Xylenols	9180	POS PARK	mg/kg	0																									
Cresols	46100	POS PARK	mg/kg	0																									
Tributyltin	42400	POS PARK	mg/kg	0																									
Methyl tert-butyl ether (MTBE)	7480000	Commercial	ug/kg	0																									
Aromatics >C6-7	27000000	Commercial	ug/kg	0																									
Aromatics >C7-8	56293712.8	Commercial	ug/kg	0																									
Aromatics >C8-10	3460000	Commercial	ug/kg	0																									
Aromatics >C10-12	9240000	POS PARK	ug/kg	0																									
Aromatics >C12-16	10200000	POS PARK	ug/kg	0																									
Aromatics >C16-21	7630000	POS PARK	ug/kg	0																									
Aromatics >C21-35	7820000	POS PARK	ug/kg	1																									
Aromatics >C35-44	7820000	POS PARK	ug/kg	0																									
Aliphatics >C5-6	3190000	Commercial	ug/kg	0																									
Aliphatics >C6-8	7780000	Commercial	ug/kg	0																									
Aliphatics >C8-10	2000000	Commercial	ug/kg	1																									
Aliphatics >C10-12	9690000	Commercial	ug/kg	0																									
Aliphatics >C12-16	24700000	POS PARK	ug/kg	0																									
Aliphatics >C16-21	455000000	POS PARK	ug/kg	0																									
Aliphatics >C21-35	455000000	POS PARK	ug/kg	0																									
Aliphatics >C35-44	455000000	POS PARK	ug/kg	0																									
Trivalent Chromium	33000	POS PARK	mg/kg	0																									
Molybdenum	2890	POS PARK	mg/kg	0																									
4-Nitroaniline	10800	POS PARK	ug/kg	0																									
Azobenzene	10800	POS PARK	ug/kg	0																									
4-Chloroaniline	10800000	POS PARK	ug/kg	0																									
2-Nitroaniline	10800	POS PARK	ug/kg	0																									

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	ARP16-CP-BH15	ARP16-CP-BH16	ARP16-CP-BH20	ARP16-CP-BH29	ARP16-CP-BH31	ARP16-CP-BH34	ARP16-CP-BH50	ARP16-CP-BH51	ARP16-CP-BH54	ARP16-CP-BH54	ARP16-CP-BH55	ARP16-CP-TP01	ARP16-CP-TP01	ARP16-CP-TP02	ARP16-CP-TP03	ARP16-CP-TP03	ARP16-CP-TP06	ARP16-CP-TP07	ARP16-CP-TP11	ARP16-CP-TP11	ARP16-CP-TP12	ARP16-CP-TP12	ARP16-CP-TP12	ARP16-CP-TP14	
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Ethylbenzene	5705.5	Commercial	mg/kg	0	mg/kg	<0.01											<0.01	<0.01												
Toluene	56293.7	Commercial	mg/kg	0	mg/kg	<0.01											<0.01	<0.01												
Anthracene	149000	POS PARK	mg/kg	0	mg/kg	<0.02	<0.02	<0.02		<0.02	<0.02	<0.02		<0.02	<0.02	0.0	<0.02		<0.02	0.1				<0.02		<0.02	<0.02			
Pyrene	15100	POS PARK	mg/kg	0	mg/kg	<0.07	<0.07	<0.07		<0.07	<0.07	<0.07		<0.07	0.1	0.2	<0.07		<0.07	1.1				<0.07		<0.07	<0.07			
Xylene	6603.1	Commercial	mg/kg	0	mg/kg																									
Benzo (g,h,i) perylene	612	POS Maintenance	mg/kg	0	mg/kg	<0.05	<0.05	<0.05		<0.05	<0.05	<0.05		<0.05	<0.05	0.1	<0.05		<0.05	0.5				<0.05		<0.05	<0.05			
Indeno(1,2,3-cd)pyrene	44	POS Maintenance	mg/kg	0	mg/kg	<0.03	<0.03	<0.03		<0.03	0.1	<0.03		<0.03	<0.03	0.1	<0.03		<0.03	0.5				<0.03		<0.03	<0.03			
Benzo(b)fluoranthene	13.2	POS PARK	mg/kg	4	mg/kg	<0.05	<0.05	<0.05		<0.05	0.1	<0.05		<0.05	0.1	0.2	<0.05		<0.05	0.8				<0.05		<0.05	<0.05			
Fluoranthene	6300	POS PARK	mg/kg	0	mg/kg	<0.08	<0.08	<0.08		<0.08	<0.08	<0.08		<0.08	0.1	0.2	<0.08		<0.08	1.2				<0.08		<0.08	<0.08			
Benzo(k)fluoranthene	114	POS Maintenance	mg/kg	0	mg/kg	<0.07	<0.07	<0.07		<0.07	<0.07	<0.07		<0.07	<0.07	<0.07	<0.07		<0.07	0.3				<0.07		<0.07	<0.07			
Acenaphthylene	28900	POS PARK	mg/kg	0	mg/kg	<0.01	<0.01	<0.01		<0.01	<0.01	<0.01		<0.01	<0.01	<0.01	<0.01		<0.01	<0.01				<0.01		<0.01	<0.01			
Chrysene	91	POS Maintenance	mg/kg	0	mg/kg	<0.06	<0.06	<0.06		<0.06	0.1	<0.06		<0.06	0.1	0.2	<0.06		<0.06	0.7				<0.06		<0.06	<0.06			
Benzo(a)pyrene	10.8	POS PARK	mg/kg	4	mg/kg	<0.04	<0.04	<0.04		<0.04	0.1	<0.04		<0.04	0.1	0.1	<0.04		<0.04	0.5				<0.04		<0.04	<0.04			
Dibenz-a-h-anthracene	1.15	POS PARK	mg/kg	5	mg/kg	<0.04	<0.04	<0.04		<0.04	<0.04	<0.04		<0.04	<0.04	<0.04	<0.04		<0.04	0.1				<0.04		<0.04	<0.04			
Benzo(a)anthracene	48.8	POS PARK	mg/kg	0	mg/kg	<0.04	<0.04	<0.04		<0.04	0.0	<0.04		<0.04	0.1	0.1	<0.04		<0.04	0.4				<0.04		<0.04	<0.04			
Cyanide	24	POS PARK	mg/kg	5	mg/kg																									
Benzene	26.60	Commercial	mg/kg	0	mg/kg	<0.01											<0.01	<0.01												
Lead	1300	POS PARK	mg/kg	13	mg/kg	21.0	17.0	18.0	33.0	15.0	32.0	40.0	15.0	13.0	4.0	35.0	35.0	2.0	27.0	25.0	97.0	38.0	34.0	19.0	6.0	35.0	8.0	11.0	20.0	
Mercury	244	POS PARK	mg/kg	0	mg/kg	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	0.7	<0.17	<0.17	0.6	0.2	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	
Nickel	804	POS PARK	mg/kg	8	mg/kg	39.0	15.0	22.0	29.0	29.0	26.0	26.0	20.0	16.0	21.0	17.0	21.0	7.0	19.0	17.0	16.0	19.0	29.0	21.0	18.0	24.0	9.0	14.0	21.0	
Antimony	3290	POS PARK	mg/kg	0	mg/kg																									
Arsenic	168	POS PARK	mg/kg	0	mg/kg	7.0	5.0	4.0	5.0	9.0	8.0	8.0	5.0	7.0	2.0	5.0	6.0	2.0	4.0	8.0	8.0	7.0	6.0	4.0	<1	7.0	6.0	7.0	4.0	
Beryllium	11.7	Commercial	mg/kg	1	mg/kg		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	<1	1.0	1.0	<1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Boron	46200	POS PARK	mg/kg	0	mg/kg		<1.0	<1.0	<1.0	<1.0	<1.0	1.3	<1.0	1.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.5	1.1	<1.0	1.2	<1.0	<1.0	<1.0	<1.0	1.7	
Cadmium	190	Commercial	mg/kg	0	mg/kg	2.4	<0.5	<0.5	0.9	0.8	2.1	<0.5	1.4	1.3	0.6	0.5	1.6	0.5	<0.5	1.6	1.6	0.7	<0.5	<0.5	<0.5	2.0	1.0	1.5	0.7	
Chromium	8570	Commercial	mg/kg	1	mg/kg	42.0	32.0	25.0	20.0	29.0	33.0	33.0	27.0	28.0	11.0	23.0	30.0	18.0	29.0	31.0	21.0	25.0	46.0	16.0	16.0	31.0	18.0	27.0	26.0	
Copper	44400	POS PARK	mg/kg	2	mg/kg	17.0	9.0	16.0	20.0	14.0	10.0	25.0	7.0	9.0	8.0	16.0	20.0	3.0	13.0	12.0	25.0	20.0	21.0	15.0	9.0	23.0	4.0	6.0	16.0	
Vanadium	2820	POS Maintenance	mg/kg	0	mg/kg		36.0	43.0	38.0	39.0	43.0	43.0	30.0	41.0	22.0	40.0	35.0	11.0	35.0	42.0	35.0	33.0	49.0	28.0	28.0	43.0	32.0	47.0	38.0	
Zinc	173000	POS PARK	mg/kg	0	mg/kg	88.0	54.0	51.0	59.0	53.0	63.0	85.0	50.0	31.0	37.0	52.0	97.0	14.0	47.0	37.0	69.0	47.0	67.0	40.0	31.0	105.0	16.0	26.0	47.0	
Selenium	1850	POS PARK	mg/kg	0	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.0	<1	<1	<1	<1	2.0	<1	<1	<1	<1	<1	2.0
Acenaphthene	28900	POS PARK	mg/kg	0	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.2				<0.01		<0.01	<0.01			
Phenanthrene	6170	POS PARK	mg/kg	0	mg/kg	<0.03	<0.03	<0.03		<0.03	<0.03	<0.03		<0.03	0.0	0.1	<0.03		<0.03	0.4				<0.03		<0.03	<0.03			
Fluorene	19600	POS PARK	mg/kg	0	mg/kg	<0.01	<0.01	<0.01		<0.01	<0.01	<0.01		<0.01	<0.01	<0.01	<0.01		<0.01	0.1				<0.01		<0.01	<0.01			
Napthalene	193	Commercial	mg/kg	0	mg/kg	<0.03	<0.03	<0.03		<0.03	<0.03	<0.03		<0.03	<0.03	<0.03	<0.03		<0.03	<0.03				<0.03		<0.03	<0.03			
Phenol (Monohydric)	7600	POS Maintenance	mg/kg	0	mg/kg																									
Aromatics >C7-8	56293.7	Commercial	mg/kg	0	mg/kg	<0.01											<0.01	<0.01												
Aromatics >C8-10	3460	Commercial	mg/kg	0	mg/kg																									
Aromatics >C10-12	9240	POS PARK	mg/kg	0	mg/kg	<0.1											<0.1	<0.1												
Aromatics >C12-16	10200	POS PARK	mg/kg	0	mg/kg	<0.1											<0.1	<0.1												
Aromatics >C16-21	7630	POS PARK	mg/kg	0	mg/kg	<0.1											<0.1	<0.1												
Aromatics >C21-35	7820	POS PARK	mg/kg	0	mg/kg	<0.1											<0.1	<0.1												
Aliphatics >C5-6	3190	Commercial	mg/kg	0	mg/kg	<0.01											<0.01	<0.01												
Aliphatics >C6-8	7780	Commercial	mg/kg	0	mg/kg	<0.01											<0.01	<0.01												
Aliphatics >C8-10	2000	Commercial	mg/kg	0	mg/kg	<0.01											<0.01	<0.01												
Aliphatics >C10-12	9690	Commercial	mg/kg	0	mg/kg	<0.1											<0.1	<0.1												
Aliphatics >C12-16	24700	POS PARK	mg/kg	0	mg/kg	<0.1											<0.1	<0.1												
Aliphatics >C16-21	455000	POS PARK	mg/kg	0	mg/kg	<0.1																								

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	ARP16-CP-BH15	ARP16-CP-BH16	ARP16-CP-BH20	ARP16-CP-BH29	ARP16-CP-BH31	ARP16-CP-BH34	ARP16-CP-BH50	ARP16-CP-BH51	ARP16-CP-BH54	ARP16-CP-BH54	ARP16-CP-BH55	ARP16-CP-TP01	ARP16-CP-TP01	ARP16-CP-TP02	ARP16-CP-TP03	ARP16-CP-TP03	ARP16-CP-TP06	ARP16-CP-TP07	ARP16-CP-TP11	ARP16-CP-TP11	ARP16-CP-TP12	ARP16-CP-TP12	ARP16-CP-TP12	ARP16-CP-TP14	
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
n-propylbenzene	3860	Commercial	mg/kg	0	mg/kg																									
n-Butylbenzene	26.598	Commercial	mg/kg	0	mg/kg																									
2,4-Dimethylphenol	9180	POS PARK	mg/kg	0	mg/kg																									
3/4 Methylphenol	46000	POS PARK	mg/kg	0	mg/kg																									
1,4-Dichlorobenzene	4220	Commercial	mg/kg	0	mg/kg																									
1,2-Dichloroethane	0.671	Commercial	mg/kg	0	mg/kg																									
1,3,5-Trimethylbenzene	39.4	Commercial	mg/kg	0	mg/kg																									
Bromobenzene	91.5	Commercial	mg/kg	0	mg/kg																									
Chlorobenzene	55.6	Commercial	mg/kg	0	mg/kg																									
Phenol	7600	POS PARK	mg/kg	0	mg/kg																									
Bis(2-chloroethoxy)methane	0.956	Commercial	mg/kg	0	mg/kg																									
Bis(2-ethylhexyl)phthalate	16600	POS PARK	mg/kg	0	mg/kg																									
Di-N-Octyl Phthalate	20000	POS PARK	mg/kg	0	mg/kg																									
Hexachlorobenzene (HCB)	28.9	POS PARK	mg/kg	0	mg/kg																									
1,2,4-Trichlorobenzene	215	Commercial	mg/kg	0	mg/kg																									
2,4-Dichlorophenol	977	POS PARK	mg/kg	0	mg/kg																									
2,4-Dinitrotoluene	928	POS PARK	mg/kg	0	mg/kg																									
Dibromochloromethane	1.96	Commercial	mg/kg	0	mg/kg																									
Tetrachloroethene	18.6	Commercial	mg/kg	0	mg/kg																									
Dimethylphthalate	2630	POS PARK	mg/kg	0	mg/kg																									
Dibenzofuran	10.8	POS PARK	mg/kg	0	mg/kg																									
Sec-Butylbenzene	26.6	Commercial	mg/kg	0	mg/kg																									
cis-1,2-Dichloroethene	13.6	Commercial	mg/kg	0	mg/kg																									
trans-1,2-Dichloroethene	20.7	Commercial	mg/kg	0	mg/kg																									
Methyl tert-butyl ether (MTBE)	7480	Commercial	mg/kg	0	mg/kg	<0.01										<0.01	<0.01													
1,3-Dichlorobenzene	29.9	Commercial	mg/kg	0	mg/kg																									
Tetrachloromethane (Carbon Tetra Chloride)	2.87	Commercial	mg/kg	0	mg/kg																									
2,3,4,6-Tetrachlorophenol	1000	POS PARK	mg/kg	0	mg/kg																									
4-Chloro-3-Methylphenol	46100	POS PARK	mg/kg	0	mg/kg																									
2,6-Dinitrotoluene	468	POS PARK	mg/kg	0	mg/kg																									
1,1,1,2-Tetrachloroethane	108	Commercial	mg/kg	0	mg/kg																									
Chloroform	99.1	Commercial	mg/kg	0	mg/kg																									
1,1,1-Trichloroethane	660	Commercial	mg/kg	0	mg/kg																									
Chloroethene	0.0594	Commercial	mg/kg	0	mg/kg																									
Tribromomethane	714	Commercial	mg/kg	0	mg/kg																									
Bromodichloromethane	1.96	Commercial	mg/kg	0	mg/kg																									
1,1-Dichloroethane	263	Commercial	mg/kg	0	mg/kg																									
1,1-Dichloroethene	24.3	Commercial	mg/kg	0	mg/kg																									
1,2-Dichloropropane	3.13	Commercial	mg/kg	0	mg/kg																									
1,1,2-Trichloroethane	89.1	Commercial	mg/kg	0	mg/kg																									
Trichloroethene	1.23	Commercial	mg/kg	0	mg/kg																									
Diethylphthalate	89300	POS PARK	mg/kg	0	mg/kg																									
Di-N-Butyl Phthalate	2630	POS PARK	mg/kg	0	mg/kg																									
Butylbenzylphthalate	254000	POS PARK	mg/kg	0	mg/kg																									
Carbazole	10.8	POS PARK	mg/kg	0	mg/kg																									
1,2,3 Trichlorobenzene	102	Commercial	mg/kg	0	mg/kg																									
Hexachlorobutadiene (HCBd)	30.7	Commercial	mg/kg	0	mg/kg																									
Pentachlorophenol (PCP)	113	POS PARK	mg/kg	0	mg/kg																									
2,4,6-Trichlorophenol	1010	POS PARK	mg/kg	0	mg/kg																									
2-Nitroaniline	10.8	POS PARK	mg/kg	0	mg/kg																									
2-Methylnaphthalene	193	Commercial	mg/kg	0	mg/kg																									
2-Chloronaphthalene	370	Commercial	mg/kg	0	mg/kg																									
2,3,5,6-Tetrachlorophenol	1000	POS PARK	mg/kg	0	mg/kg																									

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	ARP16-CP-BH15	ARP16-CP-BH16	ARP16-CP-BH20	ARP16-CP-BH29	ARP16-CP-BH31	ARP16-CP-BH34	ARP16-CP-BH50	ARP16-CP-BH51	ARP16-CP-BH54	ARP16-CP-BH54	ARP16-CP-BH55	ARP16-CP-TP01	ARP16-CP-TP01	ARP16-CP-TP02	ARP16-CP-TP03	ARP16-CP-TP03	ARP16-CP-TP06	ARP16-CP-TP07	ARP16-CP-TP11	ARP16-CP-TP11	ARP16-CP-TP12	ARP16-CP-TP12	ARP16-CP-TP12	ARP16-CP-TP14
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
O-Xylene	6603.1	Commercial	mg/kg	0	mg/kg	<0.01											<0.01	<0.01											
2-Methylphenol	46100	POS PARK	mg/kg	0	mg/kg																								
1,2-Dichlorobenzene	2020	Commercial	mg/kg	0	mg/kg																								
2-Chlorophenol	1010	POS PARK	mg/kg	0	mg/kg																								
1,2,4-Trimethylbenzene	39.4	Commercial	mg/kg	0	mg/kg																								
2,4,5-Trichlorophenol	1010	POS PARK	mg/kg	0	mg/kg																								
Isopropylbenzene	1300	Commercial	mg/kg	0	mg/kg																								
4-Isopropyltoluene	1300	Commercial	mg/kg	0	mg/kg																								
m,p xylenes	5923.3	Commercial	mg/kg	0	mg/kg	<0.01											<0.01	<0.01											
Chromium - Hexavalent	220	POS PARK	mg/kg	0	mg/kg																								
Cyanide Free	168	Commercial	mg/kg	0	mg/kg																								
Complex Cyanide	3460	POS PARK	mg/kg	0	mg/kg																								
4-Nitrophenol	7600000	POS PARK	ug/kg	0	ug/kg	<100																							
Ethylbenzene	5705504.8	Commercial	ug/kg	0	ug/kg	<1																							
Styrene	3170000	Commercial	ug/kg	0	ug/kg	<1																							
n-Propylbenzene	3860000	Commercial	ug/kg	0	ug/kg	<1																							
n-Butylbenzene	26597.9	Commercial	ug/kg	0	ug/kg	<1																							
2,4-Dimethylphenol	9180000	POS PARK	ug/kg	0	ug/kg	<100																							
4-Methylphenol	46000000	POS PARK	ug/kg	0	ug/kg	<100																							
1,4-Dichlorobenzene	4220000	Commercial	ug/kg	0	ug/kg	<1																							
1,2-Dichloroethane	671	Commercial	ug/kg	0	ug/kg	<2																							
1,3,5-Trimethylbenzene	39400	Commercial	ug/kg	3	ug/kg	<1																							
Bromobenzene	91500	Commercial	ug/kg	0	ug/kg	<1																							
Toluene VOC	56293712.79	Commercial	ug/kg	0	ug/kg	<1																							
Chlorobenzene	55600	Commercial	ug/kg	0	ug/kg	<1																							
Phenol SVOC	7600000	POS PARK	ug/kg	0	ug/kg	<100																							
Bis(2-chloroethoxy)methane	956	Commercial	ug/kg	1	ug/kg	<100																							
Bis(2-ethylhexyl)phthalate	16600000	POS PARK	ug/kg	0	ug/kg	<100																							
n-Diethylphthalate	20000000	POS PARK	ug/kg	0	ug/kg	<100																							
Hexachlorobenzene	28900	POS PARK	ug/kg	0	ug/kg	<100																							
1,2,4-Trichlorobenzene	215000	Commercial	ug/kg	0	ug/kg	<3																							
2,4-Dichlorophenol	977000	POS PARK	ug/kg	0	ug/kg	<100																							
2,4-Dinitrotoluene	928000	POS PARK	ug/kg	0	ug/kg	<100																							
Dibromochloromethane	1960	Commercial	ug/kg	0	ug/kg	<3																							
Tetrachloroethene	18600	Commercial	ug/kg	0	ug/kg	<1																							
Dimethyl phthalate	2630000	POS PARK	ug/kg	0	ug/kg	<100																							
Dibenzofuran	10800	POS PARK	ug/kg	5	ug/kg	<100																							
sec-Butylbenzene	26597.8811	Commercial	ug/kg	0	ug/kg	<1																							
cis 1,2-Dichloroethene	13600	Commercial	ug/kg	0	ug/kg	<1																							
trans 1,2-Dichloroethene	20700	Commercial	ug/kg	0	ug/kg	<1																							
Perylene	10800000	POS PARK	ug/kg	0	ug/kg	<100																							
1,3-Dichlorobenzene	29900	Commercial	ug/kg	0	ug/kg	<1																							
Carbon Tetrachloride	2870	Commercial	ug/kg	0	ug/kg	<1																							
4-Chloro-3-methylphenol	46100000	POS PARK	ug/kg	0	ug/kg	<100																							
2,6-Dinitrotoluene	468000	POS PARK	ug/kg	0	ug/kg	<100																							
1,1,1,2-Tetrachloroethane	108000	Commercial	ug/kg	0	ug/kg	<1																							
Chloroform	99100	Commercial	ug/kg	0	ug/kg	<1																							
Hexachloroethane	20900000	Commercial	ug/kg	0	ug/kg	<100																							
Benzene VOC	26597.9	Commercial	ug/kg	0	ug/kg	<1																							
1,1,1-Trichloroethane	660000	Commercial	ug/kg	0	ug/kg	<1																							
Barium	5770	POS PARK	mg/kg	0	mg/kg		77.0	77.0	122.0	80.0	90.0	115.0	64.0	67.0	80.0	92.0	106.0	15.0	85.0	153.0	772.0	89.0	111.0	106.0	43.0	103.0	20.0	32.0	86.0
Chloromethane	956000	Commercial	ug/kg	0	ug/kg	<10																							
Chloroethane	904000000	Commercial	ug/kg	0	ug/kg	<1																							

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	ARP16-CP-BH15	ARP16-CP-BH16	ARP16-CP-BH20	ARP16-CP-BH29	ARP16-CP-BH31	ARP16-CP-BH34	ARP16-CP-BH50	ARP16-CP-BH51	ARP16-CP-BH54	ARP16-CP-BH54	ARP16-CP-BH55	ARP16-CP-TP01	ARP16-CP-TP01	ARP16-CP-TP02	ARP16-CP-TP03	ARP16-CP-TP03	ARP16-CP-TP06	ARP16-CP-TP07	ARP16-CP-TP11	ARP16-CP-TP11	ARP16-CP-TP12	ARP16-CP-TP12	ARP16-CP-TP12	ARP16-CP-TP14	
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Vinyl Chloride	59.4	Commercial	ug/kg	0	ug/kg	<0.6																								
Dichloromethane VOC	257000000	Commercial	ug/kg	0	ug/kg	<5																								
Carbon Disulphide	11000000	Commercial	ug/kg	0	ug/kg	<1																								
Bromoform	714000	Commercial	ug/kg	0	ug/kg	<1																								
Bromodichloromethane	1960	Commercial	ug/kg	0	ug/kg	<10																								
1,1-Dichloroethane	263000	Commercial	ug/kg	0	ug/kg	<1																								
1,1-Dichloroethene	24300	Commercial	ug/kg	0	ug/kg	<1																								
Isophorone	26597881.1	Commercial	ug/kg	0	ug/kg	<100																								
1,2-Dichloropropane	3130	Commercial	ug/kg	0	ug/kg	<1																								
1,1,2-Trichloroethane	89100	Commercial	ug/kg	0	ug/kg	<1																								
Trichloroethene	1230	Commercial	ug/kg	0	ug/kg	<1																								
1,1,2,2-Tetrachloroethane	274000000	Commercial	ug/kg	0	ug/kg	<1																								
Diethyl phthalate	89300000	POS PARK	ug/kg	0	ug/kg	<100																								
n-Dibutylphthalate	2630000	POS PARK	ug/kg	0	ug/kg	<100																								
Butylbenzyl phthalate SVOC	254000000	POS PARK	ug/kg	0	ug/kg	<100																								
Carbazole	10800	POS PARK	ug/kg	2	ug/kg	<100																								
1,2,3-Trichlorobenzene	102000	Commercial	ug/kg	0	ug/kg	<3																								
Hexachlorobutadiene	30700	Commercial	ug/kg	0	ug/kg	<1																								
Pentachlorophenol	113000	POS PARK	ug/kg	0	ug/kg	<100																								
2,4,6-Trichlorophenol	1010000	POS PARK	ug/kg	0	ug/kg	<100																								
2-Nitrophenol	7600000000	POS PARK	ug/kg	0	ug/kg	<100																								
2-Methylnaphthalene (SVOC) DEFAULT	193000	Commercial	ug/kg	2	ug/kg	<100																								
2-Chloronaphthalene	370000	Commercial	ug/kg	0	ug/kg	<100																								
o-Xylene	6603100.7	Commercial	ug/kg	0	ug/kg	<1																								
2-Methylphenol	46100000	POS PARK	ug/kg	0	ug/kg	<100																								
1,2-Dichlorobenzene	2020000	Commercial	ug/kg	0	ug/kg	<1																								
2-Chlorophenol	1010000	POS PARK	ug/kg	0	ug/kg	<100																								
1,2,4-Trimethylbenzene	39400	Commercial	ug/kg	5	ug/kg	<1																								
2,4,5-Trichlorophenol	1010000	POS PARK	ug/kg	0	ug/kg	<100																								
Isopropylbenzene	1300000	Commercial	ug/kg	0	ug/kg	<1																								
Nitrobenzene	26597881.1	Commercial	ug/kg	0	ug/kg	<100																								
4-Isopropyltoluene	1300000	Commercial	ug/kg	0	ug/kg	<1																								
m & p Xylene	5923262.7	Commercial	ug/kg	0	ug/kg	<1																								
Aro >C8-C9	7220	POS PARK	mg/kg	0	mg/kg	<0.01											<0.01	<0.01												
Aro >C9-C10	7220	POS PARK	mg/kg	0	mg/kg	<0.01											<0.01	<0.01												
Tributyltin SUBCON I2	42400000	POS PARK	ug/kg	0	ug/kg																									
Atrazine SUBCON Alcontrol	379000000	POS Maintenance	ug/kg	0	ug/kg																									
Aldrin SUBCON Alcontrol	7800000	POS PARK	ug/kg	0	ug/kg																									
alpha-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	46500000	POS PARK	ug/kg	0	ug/kg																									
beta-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	13300000	POS PARK	ug/kg	0	ug/kg																									
Endosulphan II	1960000000	POS Maintenance	ug/kg	0	ug/kg																									
Dieldrin SUBCON Alcontrol	12900000	POS PARK	ug/kg	0	ug/kg																									
Dichlorvos	26000000	POS PARK	ug/kg	0	ug/kg																									
Endosulphan I	1950000000	POS Maintenance	ug/kg	0	ug/kg																									
Aro >C35-C44	7820	POS PARK	mg/kg	0	mg/kg																									
Ali >C35-C44	455000	POS PARK	mg/kg	0	mg/kg																									
Anthracene SVOC	149000000	POS PARK	ug/kg	0	ug/kg																									
Pyrene SVOC	15100000	POS PARK	ug/kg	0	ug/kg																									
Benzo(ghi)perylene SVOC	612000	POS Maintenance	ug/kg	0	ug/kg																									
Indeno(1,2,3-cd)pyrene SVOC	44000	POS Maintenance	ug/kg	1	ug/kg																									
Benzo(b)fluoranthene SVOC	13200	POS PARK	ug/kg	7	ug/kg																									
Fluoranthene SVOC	6300000	POS PARK	ug/kg	0	ug/kg																									

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	ARP16-CP-BH15	ARP16-CP-BH16	ARP16-CP-BH20	ARP16-CP-BH29	ARP16-CP-BH31	ARP16-CP-BH34	ARP16-CP-BH50	ARP16-CP-BH51	ARP16-CP-BH54	ARP16-CP-BH54	ARP16-CP-BH55	ARP16-CP-TP01	ARP16-CP-TP01	ARP16-CP-TP02	ARP16-CP-TP03	ARP16-CP-TP03	ARP16-CP-TP06	ARP16-CP-TP07	ARP16-CP-TP11	ARP16-CP-TP11	ARP16-CP-TP12	ARP16-CP-TP12	ARP16-CP-TP12	ARP16-CP-TP14
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Benzo(k)fluoranthene SVOC	114000	POS Maintenance	ug/kg	0	ug/kg																								
Acenaphthylene SVOC	28900000	POS PARK	ug/kg	0	ug/kg																								
Chrysene SVOC	91000	POS Maintenance	ug/kg	1	ug/kg																								
Benzo(a)pyrene SVOC	10800	POS PARK	ug/kg	8	ug/kg																								
Dibenzo(ah)anthracene SVOC	1150	POS PARK	ug/kg	10	ug/kg																								
Benzo(a)anthracene SVOC	48800	POS PARK	ug/kg	2	ug/kg																								
Acenaphthene SVOC	28900000	POS PARK	ug/kg	0	ug/kg																								
Phenanthrene SVOC	6170000	POS PARK	ug/kg	0	ug/kg																								
Fluorene SVOC	19600000	POS PARK	ug/kg	0	ug/kg																								
Naphthalene SVOC	193000	Commercial	ug/kg	1	ug/kg																								
Xylenols	9180	POS PARK	mg/kg	0	mg/kg																								
Cresols	46100	POS PARK	mg/kg	0	mg/kg																								
Tributyltin	42400	POS PARK	mg/kg	0	mg/kg																								
Methyl tert-butyl ether (MTBE)	7480000	Commercial	ug/kg	0	ug/kg																								
Aromatics >C6-7	27000000	Commercial	ug/kg	0	ug/kg																								
Aromatics >C7-8	56293712.8	Commercial	ug/kg	0	ug/kg																								
Aromatics >C8-10	3460000	Commercial	ug/kg	0	ug/kg																								
Aromatics >C10-12	9240000	POS PARK	ug/kg	0	ug/kg																								
Aromatics >C12-16	10200000	POS PARK	ug/kg	0	ug/kg																								
Aromatics >C16-21	7630000	POS PARK	ug/kg	0	ug/kg																								
Aromatics >C21-35	7820000	POS PARK	ug/kg	1	ug/kg																								
Aromatics >C35-44	7820000	POS PARK	ug/kg	0	ug/kg																								
Aliphatics >C5-6	3190000	Commercial	ug/kg	0	ug/kg																								
Aliphatics >C6-8	7780000	Commercial	ug/kg	0	ug/kg																								
Aliphatics >C8-10	2000000	Commercial	ug/kg	1	ug/kg																								
Aliphatics >C10-12	9690000	Commercial	ug/kg	0	ug/kg																								
Aliphatics >C12-16	24700000	POS PARK	ug/kg	0	ug/kg																								
Aliphatics >C16-21	455000000	POS PARK	ug/kg	0	ug/kg																								
Aliphatics >C21-35	455000000	POS PARK	ug/kg	0	ug/kg																								
Aliphatics >C35-44	455000000	POS PARK	ug/kg	0	ug/kg																								
Trivalent Chromium	33000	POS PARK	mg/kg	0	mg/kg																								
Molybdenum	2890	POS PARK	mg/kg	0	mg/kg																								
4-Nitroaniline	10800	POS PARK	ug/kg	0	ug/kg																								
Azobenzene	10800	POS PARK	ug/kg	0	ug/kg																								
4-Chloroaniline	10800000	POS PARK	ug/kg	0	ug/kg																								
2-Nitroaniline	10800	POS PARK	ug/kg	0	ug/kg																								

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	ARP16-CP-TP18	ARP16-CP-TP18	ARP16-CP-TP18	ARP16-CP-TP18	ARP16-CP-TP20	ARP16-CP-TP23	ARP16-CP-TP32	ARP16-CP-TP35	ARP16-CP-TP39	ARP16-CP-TP40	ARP16-CP-TP41	ARP16-CP-TP43	ARP16-CP-TP44	ARP16-CP-TP44	ARP16-CP-TP45	ARP16-CP-TP46	ARP16-CP-TP46	ARP16-CP-TP49	ARP16-CP-TP49	ARP16-CP-TP49	ARP16-CP-TP51	ARP16-CP-TP52	ARP16-CP-TP52	ARP16-CP-TP52	
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Ethylbenzene	5705.5	Commercial	mg/kg	0	mg/kg		<0.01	<0.01										<0.01	<0.01						<0.01			<0.01	<0.01	
Toluene	56293.7	Commercial	mg/kg	0	mg/kg		<0.01	<0.01										<0.01	<0.01						<0.01			<0.01	<0.01	
Anthracene	149000	POS PARK	mg/kg	0	mg/kg		<0.02	0.1	<0.02	0.2		<0.02						0.0	0.0		0.1	<0.02	0.1	0.3	<0.02	<0.02	<0.02	<0.02	0.2	
Pyrene	15100	POS PARK	mg/kg	0	mg/kg		0.1	0.6	<0.07	3.6		<0.07						0.2	0.2		0.9	<0.07	0.7	3.2	<0.07	<0.07	0.2	<0.07	1.0	
Xylene	6603.1	Commercial	mg/kg	0	mg/kg																									
Benzo (g,h,i) perylene	612	POS Maintenance	mg/kg	0	mg/kg		<0.05	0.2	<0.05	0.7		<0.05						0.1	<0.05		0.7	<0.05	0.5	1.4	<0.05	<0.05	<0.05	<0.05	0.2	
Indeno(1,2,3-cd)pyrene	44	POS Maintenance	mg/kg	0	mg/kg		<0.03	0.2	<0.03	0.7		<0.03						0.1	0.1		0.7	<0.03	0.6	1.6	<0.03	<0.03	0.1	<0.03	0.2	
Benzo(b)fluoranthene	13.2	POS PARK	mg/kg	4	mg/kg		<0.05	0.5	<0.05	1.4		<0.05						0.2	0.1		0.9	<0.05	0.8	2.5	<0.05	<0.05	0.1	<0.05	0.5	
Fluoranthene	6300	POS PARK	mg/kg	0	mg/kg		0.1	0.6	<0.08	2.3		<0.08						0.2	0.2		0.9	<0.08	0.8	3.5	<0.08	<0.08	0.2	<0.08	1.1	
Benzo(k)fluoranthene	114	POS Maintenance	mg/kg	0	mg/kg		<0.07	0.2	<0.07	0.6		<0.07						<0.07	<0.07		0.4	<0.07	0.3	1.0	<0.07	<0.07	<0.07	<0.07	0.2	
Acenaphthylene	28900	POS PARK	mg/kg	0	mg/kg		<0.01	<0.01	<0.01	0.0		<0.01						<0.01	<0.01		0.0	<0.01	<0.01	0.0	<0.01	<0.01	<0.01	<0.01	<0.01	
Chrysene	91	POS Maintenance	mg/kg	0	mg/kg		<0.06	0.4	<0.06	1.4		<0.06						0.2	0.1		0.7	<0.06	0.7	2.2	<0.06	<0.06	0.1	<0.06	0.5	
Benzo(a)pyrene	10.8	POS PARK	mg/kg	4	mg/kg		<0.04	0.4	<0.04	1.1		<0.04						0.1	0.1		0.8	<0.04	0.7	2.3	<0.04	<0.04	0.1	<0.04	0.4	
Dibenz-a-h-anthracene	1.15	POS PARK	mg/kg	5	mg/kg		<0.04	0.0	<0.04	0.2		<0.04						<0.04	<0.04		0.1	<0.04	0.1	0.3	<0.04	<0.04	<0.04	<0.04	0.1	
Benzo(a)anthracene	48.8	POS PARK	mg/kg	0	mg/kg		<0.04	0.3	<0.04	1.4		<0.04						0.1	0.1		0.5	<0.04	0.5	2.2	<0.04	<0.04	0.1	<0.04	0.5	
Cyanide	24	POS PARK	mg/kg	5	mg/kg																									
Benzene	26.60	Commercial	mg/kg	0	mg/kg			<0.01	<0.01									<0.01	<0.01						<0.01			<0.01	<0.01	
Lead	1300	POS PARK	mg/kg	13	mg/kg		25.0	14.0	7.0	18.0	42.0	12.0	23.0	28.0	26.0	13.0	30.0	23.0	25.0	17.0	37.0	49.0	18.0	52.0	115.0	27.0	37.0	14.0	20.0	30.0
Mercury	244	POS PARK	mg/kg	0	mg/kg		<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	0.5	0.2	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	0.3	0.3	<0.17	0.2	<0.17	<0.17	<0.17
Nickel	804	POS PARK	mg/kg	8	mg/kg		15.0	10.0	9.0	11.0	20.0	15.0	23.0	11.0	34.0	8.0	20.0	17.0	19.0	18.0	23.0	15.0	25.0	18.0	15.0	20.0	20.0	15.0	14.0	13.0
Antimony	3290	POS PARK	mg/kg	0	mg/kg																									
Arsenic	168	POS PARK	mg/kg	0	mg/kg		8.0	6.0	3.0	3.0	8.0	6.0	5.0	6.0	10.0	2.0	6.0	3.0	8.0	6.0	6.0	5.0	13.0	8.0	6.0	11.0	6.0	9.0	8.0	6.0
Beryllium	11.7	Commercial	mg/kg	1	mg/kg		1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Boron	46200	POS PARK	mg/kg	0	mg/kg		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.0	<1.0	<1.0	<1.0	<1.0	2.3	1.1	<1.0	<1.0	<1.0	<1.0	2.2	1.9	<1.0	<1.0	1.4	1.3	<1.0
Cadmium	190	Commercial	mg/kg	0	mg/kg		1.9	1.2	0.8	0.8	0.9	1.3	0.8	<0.5	<0.5	<0.5	0.8	<0.5	1.8	1.5	<0.5	1.2	2.5	1.3	1.4	2.5	<0.5	1.3	1.2	1.3
Chromium	8570	Commercial	mg/kg	1	mg/kg		29.0	26.0	13.0	17.0	27.0	22.0	26.0	22.0	82.0	9.0	28.0	18.0	25.0	21.0	31.0	27.0	50.0	20.0	17.0	28.0	23.0	29.0	18.0	18.0
Copper	44400	POS PARK	mg/kg	2	mg/kg		21.0	7.0	6.0	10.0	20.0	11.0	16.0	11.0	23.0	8.0	21.0	17.0	20.0	17.0	19.0	17.0	21.0	30.0	13.0	28.0	10.0	20.0	14.0	
Vanadium	2820	POS Maintenance	mg/kg	0	mg/kg		39.0	37.0	24.0	27.0	36.0	38.0	37.0	26.0	64.0	16.0	32.0	27.0	38.0	34.0	44.0	33.0	83.0	30.0	23.0	44.0	37.0	38.0	35.0	28.0
Zinc	173000	POS PARK	mg/kg	0	mg/kg		50.0	23.0	23.0	36.0	51.0	32.0	58.0	34.0	76.0	26.0	62.0	52.0	62.0	70.0	61.0	58.0	58.0	82.0	134.0	49.0	67.0	35.0	51.0	45.0
Selenium	1850	POS PARK	mg/kg	0	mg/kg		<1	<1	<1	<1	2.0	<1	2.0	<1	1.0	1.0	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	2.0	<1	<1	<1
Acenaphthene	28900	POS PARK	mg/kg	0	mg/kg		<0.01	0.0	<0.01	0.1		<0.01						<0.01	0.0		0.0	<0.01	0.0	0.1	<0.01	<0.01	<0.01	<0.01	<0.01	0.1
Phenanthrene	6170	POS PARK	mg/kg	0	mg/kg		0.1	0.1	0.0	0.6		<0.03						0.1	0.1		0.2	<0.03	0.3	1.0	<0.03	<0.03	0.1	<0.03	0.7	
Fluorene	19600	POS PARK	mg/kg	0	mg/kg		<0.01	0.0	<0.01	0.1		<0.01						<0.01	0.0		0.0	<0.01	0.0	0.1	<0.01	<0.01	<0.01	<0.01	0.1	
Napthalene	193	Commercial	mg/kg	0	mg/kg		<0.03	<0.03	<0.03	<0.03		<0.03						<0.03	<0.03		<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	
Phenol (Monohydric)	7600	POS Maintenance	mg/kg	0	mg/kg																									
Aromatics >C7-8	56293.7	Commercial	mg/kg	0	mg/kg			<0.01	<0.01									<0.01	<0.01						<0.01			<0.01	<0.01	
Aromatics >C8-10	3460	Commercial	mg/kg	0	mg/kg																									
Aromatics >C10-12	9240	POS PARK	mg/kg	0	mg/kg			<0.1	<0.1									<0.1	<0.1						<0.1			<0.1	<0.1	
Aromatics >C12-16	10200	POS PARK	mg/kg	0	mg/kg			<0.1	<0.1									0.5	<0.1						<0.1			<0.1	<0.1	
Aromatics >C16-21	7630	POS PARK	mg/kg	0	mg/kg			4.8	0.6									10.3	3.2						<0.1			0.8	1.4	
Aromatics >C21-35	7820	POS PARK	mg/kg	0	mg/kg			4.4	7.7									36.5	3.1						<0.1			32.4	48.8	
Aliphatics >C5-6	3190	Commercial	mg/kg	0	mg/kg			<0.01	<0.01									<0.01	<0.01						<0.01			<0.01	<0.01	
Aliphatics >C6-8	7780	Commercial	mg/kg	0	mg/kg			<0.01	<0.01									<0.01	<0.01						<0.01			<0.01	<0.01	
Aliphatics >C8-10	2000	Commercial	mg/kg	0	mg/kg			<0.01	<0.01									<0.01	<0.01						<0.01			<0.01	<0.01	
Aliphatics >C10-12	9690	Commercial	mg/kg	0	mg/kg			<0.1	<0.1									<0.1	<0.1						<0.1			<0.1	<0.1	
Aliphatics >C12-16	24700	POS PARK	mg/kg	0	mg/kg			<0.1	<0.1																					

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	ARP16-CP-TP18	ARP16-CP-TP18	ARP16-CP-TP18	ARP16-CP-TP18	ARP16-CP-TP20	ARP16-CP-TP23	ARP16-CP-TP32	ARP16-CP-TP35	ARP16-CP-TP39	ARP16-CP-TP40	ARP16-CP-TP41	ARP16-CP-TP43	ARP16-CP-TP44	ARP16-CP-TP44	ARP16-CP-TP45	ARP16-CP-TP46	ARP16-CP-TP46	ARP16-CP-TP49	ARP16-CP-TP49	ARP16-CP-TP49	ARP16-CP-TP51	ARP16-CP-TP52	ARP16-CP-TP52	ARP16-CP-TP52	
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
n-propylbenzene	3860	Commercial	mg/kg	0	mg/kg																									
n-Butylbenzene	26.598	Commercial	mg/kg	0	mg/kg																									
2,4-Dimethylphenol	9180	POS PARK	mg/kg	0	mg/kg																									
3/4 Methylphenol	46000	POS PARK	mg/kg	0	mg/kg																									
1,4-Dichlorobenzene	4220	Commercial	mg/kg	0	mg/kg																									
1,2-Dichloroethane	0.671	Commercial	mg/kg	0	mg/kg																									
1,3,5-Trimethylbenzene	39.4	Commercial	mg/kg	0	mg/kg																									
Bromobenzene	91.5	Commercial	mg/kg	0	mg/kg																									
Chlorobenzene	55.6	Commercial	mg/kg	0	mg/kg																									
Phenol	7600	POS PARK	mg/kg	0	mg/kg																									
Bis(2-chloroethoxy)methane	0.956	Commercial	mg/kg	0	mg/kg																									
Bis(2-ethylhexyl)phthalate	16600	POS PARK	mg/kg	0	mg/kg																									
Di-N-Octyl Phthalate	20000	POS PARK	mg/kg	0	mg/kg																									
Hexachlorobenzene (HCB)	28.9	POS PARK	mg/kg	0	mg/kg																									
1,2,4-Trichlorobenzene	215	Commercial	mg/kg	0	mg/kg																									
2,4-Dichlorophenol	977	POS PARK	mg/kg	0	mg/kg																									
2,4-Dinitrotoluene	928	POS PARK	mg/kg	0	mg/kg																									
Dibromochloromethane	1.96	Commercial	mg/kg	0	mg/kg																									
Tetrachloroethene	18.6	Commercial	mg/kg	0	mg/kg																									
Dimethylphthalate	2630	POS PARK	mg/kg	0	mg/kg																									
Dibenzofuran	10.8	POS PARK	mg/kg	0	mg/kg																									
Sec-Butylbenzene	26.6	Commercial	mg/kg	0	mg/kg																									
cis-1,2-Dichloroethene	13.6	Commercial	mg/kg	0	mg/kg																									
trans-1,2-Dichloroethene	20.7	Commercial	mg/kg	0	mg/kg																									
Methyl tert-butyl ether (MTBE)	7480	Commercial	mg/kg	0	mg/kg			<0.01	<0.01									<0.01	<0.01						<0.01			<0.01	<0.01	
1,3-Dichlorobenzene	29.9	Commercial	mg/kg	0	mg/kg																									
Tetrachloromethane (Carbon Tetra Chloride)	2.87	Commercial	mg/kg	0	mg/kg																									
2,3,4,6-Tetrachlorophenol	1000	POS PARK	mg/kg	0	mg/kg																									
4-Chloro-3-Methylphenol	46100	POS PARK	mg/kg	0	mg/kg																									
2,6-Dinitrotoluene	468	POS PARK	mg/kg	0	mg/kg																									
1,1,1,2-Tetrachloroethane	108	Commercial	mg/kg	0	mg/kg																									
Chloroform	99.1	Commercial	mg/kg	0	mg/kg																									
1,1,1-Trichloroethane	660	Commercial	mg/kg	0	mg/kg																									
Chloroethene	0.0594	Commercial	mg/kg	0	mg/kg																									
Tribromomethane	714	Commercial	mg/kg	0	mg/kg																									
Bromodichloromethane	1.96	Commercial	mg/kg	0	mg/kg																									
1,1-Dichloroethane	263	Commercial	mg/kg	0	mg/kg																									
1,1-Dichloroethene	24.3	Commercial	mg/kg	0	mg/kg																									
1,2-Dichloropropane	3.13	Commercial	mg/kg	0	mg/kg																									
1,1,2-Trichloroethane	89.1	Commercial	mg/kg	0	mg/kg																									
Trichloroethene	1.23	Commercial	mg/kg	0	mg/kg																									
Diethylphthalate	89300	POS PARK	mg/kg	0	mg/kg																									
Di-N-Butyl Phthalate	2630	POS PARK	mg/kg	0	mg/kg																									
Butylbenzylphthalate	254000	POS PARK	mg/kg	0	mg/kg																									
Carbazole	10.8	POS PARK	mg/kg	0	mg/kg																									
1,2,3 Trichlorobenzene	102	Commercial	mg/kg	0	mg/kg																									
Hexachlorobutadiene (HCBd)	30.7	Commercial	mg/kg	0	mg/kg																									
Pentachlorophenol (PCP)	113	POS PARK	mg/kg	0	mg/kg																									
2,4,6-Trichlorophenol	1010	POS PARK	mg/kg	0	mg/kg																									
2-Nitroaniline	10.8	POS PARK	mg/kg	0	mg/kg																									
2-Methylnaphthalene	193	Commercial	mg/kg	0	mg/kg																									
2-Chloronaphthalene	370	Commercial	mg/kg	0	mg/kg																									
2,3,5,6-Tetrachlorophenol	1000	POS PARK	mg/kg	0	mg/kg																									

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	ARP16-CP-TP18	ARP16-CP-TP18	ARP16-CP-TP18	ARP16-CP-TP18	ARP16-CP-TP20	ARP16-CP-TP23	ARP16-CP-TP32	ARP16-CP-TP35	ARP16-CP-TP39	ARP16-CP-TP40	ARP16-CP-TP41	ARP16-CP-TP43	ARP16-CP-TP44	ARP16-CP-TP44	ARP16-CP-TP45	ARP16-CP-TP46	ARP16-CP-TP46	ARP16-CP-TP49	ARP16-CP-TP49	ARP16-CP-TP49	ARP16-CP-TP51	ARP16-CP-TP52	ARP16-CP-TP52	ARP16-CP-TP52		
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
O-Xylene	6603.1	Commercial	mg/kg	0	mg/kg		<0.01	<0.01											<0.01	<0.01						<0.01				<0.01	<0.01
2-Methylphenol	46100	POS PARK	mg/kg	0	mg/kg																										
1,2-Dichlorobenzene	2020	Commercial	mg/kg	0	mg/kg																										
2-Chlorophenol	1010	POS PARK	mg/kg	0	mg/kg																										
1,2,4-Trimethylbenzene	39.4	Commercial	mg/kg	0	mg/kg																										
2,4,5-Trichlorophenol	1010	POS PARK	mg/kg	0	mg/kg																										
Isopropylbenzene	1300	Commercial	mg/kg	0	mg/kg																										
4-Isopropyltoluene	1300	Commercial	mg/kg	0	mg/kg																										
m,p xylenes	5923.3	Commercial	mg/kg	0	mg/kg		<0.01	<0.01											<0.01	<0.01						<0.01			<0.01	<0.01	
Chromium - Hexavalent	220	POS PARK	mg/kg	0	mg/kg																										
Cyanide Free	168	Commercial	mg/kg	0	mg/kg																										
Complex Cyanide	3460	POS PARK	mg/kg	0	mg/kg																										
4-Nitrophenol	7600000	POS PARK	ug/kg	0	ug/kg																										
Ethylbenzene	5705504.8	Commercial	ug/kg	0	ug/kg		<1																								
Styrene	3170000	Commercial	ug/kg	0	ug/kg		<1																								
n-Propylbenzene	3860000	Commercial	ug/kg	0	ug/kg		<1																								
n-Butylbenzene	26597.9	Commercial	ug/kg	0	ug/kg		<1																								
2,4-Dimethylphenol	9180000	POS PARK	ug/kg	0	ug/kg																										
4-Methylphenol	46000000	POS PARK	ug/kg	0	ug/kg																										
1,4-Dichlorobenzene	4220000	Commercial	ug/kg	0	ug/kg		<1																								
1,2-Dichloroethane	671	Commercial	ug/kg	0	ug/kg		<2																								
1,3,5-Trimethylbenzene	39400	Commercial	ug/kg	3	ug/kg		<1																								
Bromobenzene	91500	Commercial	ug/kg	0	ug/kg		<1																								
Toluene VOC	56293712.79	Commercial	ug/kg	0	ug/kg		<1																								
Chlorobenzene	55600	Commercial	ug/kg	0	ug/kg		<1																								
Phenol SVOC	7600000	POS PARK	ug/kg	0	ug/kg																										
Bis(2-chloroethoxy)methane	956	Commercial	ug/kg	1	ug/kg																										
Bis(2-ethylhexyl)phthalate	16600000	POS PARK	ug/kg	0	ug/kg																										
n-Diethylphthalate	20000000	POS PARK	ug/kg	0	ug/kg																										
Hexachlorobenzene	28900	POS PARK	ug/kg	0	ug/kg																										
1,2,4-Trichlorobenzene	215000	Commercial	ug/kg	0	ug/kg		<3																								
2,4-Dichlorophenol	977000	POS PARK	ug/kg	0	ug/kg																										
2,4-Dinitrotoluene	928000	POS PARK	ug/kg	0	ug/kg																										
Dibromochloromethane	1960	Commercial	ug/kg	0	ug/kg		<3																								
Tetrachloroethene	18600	Commercial	ug/kg	0	ug/kg		<1																								
Dimethyl phthalate	2630000	POS PARK	ug/kg	0	ug/kg																										
Dibenzofuran	10800	POS PARK	ug/kg	5	ug/kg																										
sec-Butylbenzene	26597.8811	Commercial	ug/kg	0	ug/kg		<1																								
cis 1,2-Dichloroethene	13600	Commercial	ug/kg	0	ug/kg		<1																								
trans 1,2-Dichloroethene	20700	Commercial	ug/kg	0	ug/kg		<1																								
Perylene	10800000	POS PARK	ug/kg	0	ug/kg																										
1,3-Dichlorobenzene	29900	Commercial	ug/kg	0	ug/kg		<1																								
Carbon Tetrachloride	2870	Commercial	ug/kg	0	ug/kg		<1																								
4-Chloro-3-methylphenol	46100000	POS PARK	ug/kg	0	ug/kg																										
2,6-Dinitrotoluene	468000	POS PARK	ug/kg	0	ug/kg																										
1,1,1,2-Tetrachloroethane	108000	Commercial	ug/kg	0	ug/kg		<1																								
Chloroform	99100	Commercial	ug/kg	0	ug/kg		<1																								
Hexachloroethane	20900000	Commercial	ug/kg	0	ug/kg																										
Benzene VOC	26597.9	Commercial	ug/kg	0	ug/kg		<1																								
1,1,1-Trichloroethane	660000	Commercial	ug/kg	0	ug/kg		<1																								
Barium	5770	POS PARK	mg/kg	0	mg/kg	68.0	48.0	28.0	61.0	102.0	44.0	111.0	50.0	73.0	36.0	108.0	69.0	68.0	46.0	87.0	102.0	54.0	82.0	88.0	75.0	104.0	52.0	101.0	63.0		
Chloromethane	956000	Commercial	ug/kg	0	ug/kg		<10																								
Chloroethane	904000000	Commercial	ug/kg	0	ug/kg		<1																								

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	ARP16-CP-TP18	ARP16-CP-TP18	ARP16-CP-TP18	ARP16-CP-TP18	ARP16-CP-TP20	ARP16-CP-TP23	ARP16-CP-TP32	ARP16-CP-TP35	ARP16-CP-TP39	ARP16-CP-TP40	ARP16-CP-TP41	ARP16-CP-TP43	ARP16-CP-TP44	ARP16-CP-TP44	ARP16-CP-TP45	ARP16-CP-TP46	ARP16-CP-TP46	ARP16-CP-TP49	ARP16-CP-TP49	ARP16-CP-TP49	ARP16-CP-TP51	ARP16-CP-TP52	ARP16-CP-TP52	ARP16-CP-TP52
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Vinyl Chloride	59.4	Commercial	ug/kg	0	ug/kg		<1																						
Dichloromethane VOC	257000000	Commercial	ug/kg	0	ug/kg		<10																						
Carbon Disulphide	11000000	Commercial	ug/kg	0	ug/kg		<1																						
Bromoform	714000	Commercial	ug/kg	0	ug/kg		<1																						
Bromodichloromethane	1960	Commercial	ug/kg	0	ug/kg		<10																						
1,1-Dichloroethane	263000	Commercial	ug/kg	0	ug/kg		<1																						
1,1-Dichloroethene	24300	Commercial	ug/kg	0	ug/kg		<1																						
Isophorone	26597881.1	Commercial	ug/kg	0	ug/kg																								
1,2-Dichloropropane	3130	Commercial	ug/kg	0	ug/kg		<1																						
1,1,2-Trichloroethane	89100	Commercial	ug/kg	0	ug/kg		<1																						
Trichloroethene	1230	Commercial	ug/kg	0	ug/kg		<1																						
1,1,2,2-Tetrachloroethane	274000000	Commercial	ug/kg	0	ug/kg		<1																						
Diethyl phthalate	89300000	POS PARK	ug/kg	0	ug/kg																								
n-Dibutylphthalate	2630000	POS PARK	ug/kg	0	ug/kg																								
Butylbenzyl phthalate SVOC	254000000	POS PARK	ug/kg	0	ug/kg																								
Carbazole	10800	POS PARK	ug/kg	2	ug/kg																								
1,2,3-Trichlorobenzene	102000	Commercial	ug/kg	0	ug/kg		<3																						
Hexachlorobutadiene	30700	Commercial	ug/kg	0	ug/kg		<1																						
Pentachlorophenol	113000	POS PARK	ug/kg	0	ug/kg																								
2,4,6-Trichlorophenol	1010000	POS PARK	ug/kg	0	ug/kg																								
2-Nitrophenol	7600000000	POS PARK	ug/kg	0	ug/kg																								
2-Methylnaphthalene (SVOC) DEFAULT	193000	Commercial	ug/kg	2	ug/kg																								
2-Chloronaphthalene	370000	Commercial	ug/kg	0	ug/kg																								
o-Xylene	6603100.7	Commercial	ug/kg	0	ug/kg		<1																						
2-Methylphenol	46100000	POS PARK	ug/kg	0	ug/kg																								
1,2-Dichlorobenzene	2020000	Commercial	ug/kg	0	ug/kg		<1																						
2-Chlorophenol	1010000	POS PARK	ug/kg	0	ug/kg																								
1,2,4-Trimethylbenzene	39400	Commercial	ug/kg	5	ug/kg		<1																						
2,4,5-Trichlorophenol	1010000	POS PARK	ug/kg	0	ug/kg																								
Isopropylbenzene	1300000	Commercial	ug/kg	0	ug/kg		<1																						
Nitrobenzene	26597881.1	Commercial	ug/kg	0	ug/kg																								
4-Isopropyltoluene	1300000	Commercial	ug/kg	0	ug/kg		<1																						
m & p Xylene	5923262.7	Commercial	ug/kg	0	ug/kg		<1																						
Aro >C8-C9	7220	POS PARK	mg/kg	0	mg/kg		<0.01	<0.01										<0.01	<0.01						<0.01		<0.01	<0.01	
Aro >C9-C10	7220	POS PARK	mg/kg	0	mg/kg		<0.01	<0.01										<0.01	<0.01						<0.01		<0.01	<0.01	
Tributyltin SUBCON I2	42400000	POS PARK	ug/kg	0	ug/kg																								
Atrazine SUBCON Alcontrol	379000000	POS Maintenance	ug/kg	0	ug/kg																								
Aldrin SUBCON Alcontrol	7800000	POS PARK	ug/kg	0	ug/kg																								
alpha-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	46500000	POS PARK	ug/kg	0	ug/kg																								
beta-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	13300000	POS PARK	ug/kg	0	ug/kg																								
Endosulphan II	1960000000	POS Maintenance	ug/kg	0	ug/kg																								
Dieldrin SUBCON Alcontrol	12900000	POS PARK	ug/kg	0	ug/kg																								
Dichlorvos	26000000	POS PARK	ug/kg	0	ug/kg																								
Endosulphan I	1950000000	POS Maintenance	ug/kg	0	ug/kg																								
Aro >C35-C44	7820	POS PARK	mg/kg	0	mg/kg																								
Ali >C35-C44	455000	POS PARK	mg/kg	0	mg/kg																								
Anthracene SVOC	149000000	POS PARK	ug/kg	0	ug/kg																								
Pyrene SVOC	15100000	POS PARK	ug/kg	0	ug/kg																								
Benzo(ghi)perylene SVOC	612000	POS Maintenance	ug/kg	0	ug/kg																								
Indeno(1,2,3-cd)pyrene SVOC	44000	POS Maintenance	ug/kg	1	ug/kg																								
Benzo(b)fluoranthene SVOC	13200	POS PARK	ug/kg	7	ug/kg																								
Fluoranthene SVOC	6300000	POS PARK	ug/kg	0	ug/kg																								

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	ARP16-CP-TP18	ARP16-CP-TP18	ARP16-CP-TP18	ARP16-CP-TP18	ARP16-CP-TP20	ARP16-CP-TP23	ARP16-CP-TP32	ARP16-CP-TP35	ARP16-CP-TP39	ARP16-CP-TP40	ARP16-CP-TP41	ARP16-CP-TP43	ARP16-CP-TP44	ARP16-CP-TP44	ARP16-CP-TP45	ARP16-CP-TP46	ARP16-CP-TP46	ARP16-CP-TP49	ARP16-CP-TP49	ARP16-CP-TP49	ARP16-CP-TP51	ARP16-CP-TP52	ARP16-CP-TP52	ARP16-CP-TP52
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Benzo(k)fluoranthene SVOC	114000	POS Maintenance	ug/kg	0	ug/kg																								
Acenaphthylene SVOC	28900000	POS PARK	ug/kg	0	ug/kg																								
Chrysene SVOC	91000	POS Maintenance	ug/kg	1	ug/kg																								
Benzo(a)pyrene SVOC	10800	POS PARK	ug/kg	8	ug/kg																								
Dibenzo(ah)anthracene SVOC	1150	POS PARK	ug/kg	10	ug/kg																								
Benzo(a)anthracene SVOC	48800	POS PARK	ug/kg	2	ug/kg																								
Acenaphthene SVOC	28900000	POS PARK	ug/kg	0	ug/kg																								
Phenanthrene SVOC	6170000	POS PARK	ug/kg	0	ug/kg																								
Fluorene SVOC	19600000	POS PARK	ug/kg	0	ug/kg																								
Naphthalene SVOC	193000	Commercial	ug/kg	1	ug/kg																								
Xylenols	9180	POS PARK	mg/kg	0	mg/kg																								
Cresols	46100	POS PARK	mg/kg	0	mg/kg																								
Tributyltin	42400	POS PARK	mg/kg	0	mg/kg																								
Methyl tert-butyl ether (MTBE)	7480000	Commercial	ug/kg	0	ug/kg																								
Aromatics >C6-7	27000000	Commercial	ug/kg	0	ug/kg																								
Aromatics >C7-8	56293712.8	Commercial	ug/kg	0	ug/kg																								
Aromatics >C8-10	3460000	Commercial	ug/kg	0	ug/kg																								
Aromatics >C10-12	9240000	POS PARK	ug/kg	0	ug/kg																								
Aromatics >C12-16	10200000	POS PARK	ug/kg	0	ug/kg																								
Aromatics >C16-21	7630000	POS PARK	ug/kg	0	ug/kg																								
Aromatics >C21-35	7820000	POS PARK	ug/kg	1	ug/kg																								
Aromatics >C35-44	7820000	POS PARK	ug/kg	0	ug/kg																								
Aliphatics >C5-6	3190000	Commercial	ug/kg	0	ug/kg																								
Aliphatics >C6-8	7780000	Commercial	ug/kg	0	ug/kg																								
Aliphatics >C8-10	2000000	Commercial	ug/kg	1	ug/kg																								
Aliphatics >C10-12	9690000	Commercial	ug/kg	0	ug/kg																								
Aliphatics >C12-16	24700000	POS PARK	ug/kg	0	ug/kg																								
Aliphatics >C16-21	455000000	POS PARK	ug/kg	0	ug/kg																								
Aliphatics >C21-35	455000000	POS PARK	ug/kg	0	ug/kg																								
Aliphatics >C35-44	455000000	POS PARK	ug/kg	0	ug/kg																								
Trivalent Chromium	33000	POS PARK	mg/kg	0	mg/kg																								
Molybdenum	2890	POS PARK	mg/kg	0	mg/kg																								
4-Nitroaniline	10800	POS PARK	ug/kg	0	ug/kg																								
Azobenzene	10800	POS PARK	ug/kg	0	ug/kg																								
4-Chloroaniline	10800000	POS PARK	ug/kg	0	ug/kg																								
2-Nitroaniline	10800	POS PARK	ug/kg	0	ug/kg																								

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	ARP16-LF-BH01	ARP16-LF-BH01	ARP16-LF-BH01	ARP16-LF-BH01	ARP16-LF-BH02	ARP16-LF-BH02	ARP16-LF-BH02	ARP16-LF-BH03	ARP16-LF-BH03	ARP16-LF-BH03	ARP16-LF-BH03	ARP16-LF-BH04	ARP16-LF-BH04	ARP16-LF-BH04	ARP16-LF-BH04	ARP16-LF-BH04	ARP16-LF-BH05	ARP16-LF-BH05	ARP16-LF-BH06	ARP16-LF-BH06	ARP16-LF-BH06	ARP16-LF-BH06			
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Ethylbenzene	5705.5	Commercial	mg/kg	0	mg/kg		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.05	<0.01	<0.01	0.0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01			
Toluene	56293.7	Commercial	mg/kg	0	mg/kg		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01			
Anthracene	149000	POS PARK	mg/kg	0	mg/kg	<0.02	0.0	<0.02	<0.02	<0.02	<0.02	0.3	<0.02	0.1	<0.02	0.4	<0.02	0.6	<0.02	0.2	0.1	<0.02	11.2	0.1	<0.02	0.5	<0.02			
Pyrene	15100	POS PARK	mg/kg	0	mg/kg	0.2	0.2	<0.07	<0.07	0.1	<0.07	0.3	2.5	0.1	<0.07	<0.07	2.1	<0.07	2.8	<0.07	3.2	0.7	0.2	43.3	0.3	<0.07	2.7	0.2		
Xylene	6603.1	Commercial	mg/kg	0	mg/kg																									
Benzo (g,h,i) perylene	612	POS Maintenance	mg/kg	0	mg/kg	0.1	0.1	<0.05	<0.05	0.1	<0.05	0.1	0.8	<0.05	<0.05	<0.05	0.6	<0.05	0.7	<0.05	2.0	0.3	0.1	9.7	0.2	<0.05	0.9	0.1		
Indeno(1,2,3-cd)pyrene	44	POS Maintenance	mg/kg	0	mg/kg	0.2	0.1	<0.03	<0.03	0.1	<0.03	0.1	0.8	<0.03	<0.03	<0.03	0.6	<0.03	0.7	<0.03	2.4	0.3	0.1	11.9	0.3	<0.03	1.1	0.1		
Benzo(b)fluoranthene	13.2	POS PARK	mg/kg	4	mg/kg	0.2	0.1	<0.05	<0.05	0.1	<0.05	0.2	1.2	<0.05	<0.05	<0.05	1.2	<0.05	1.6	<0.05	4.2	0.6	0.2	18.8	0.4	<0.05	2.1	0.2		
Fluoranthene	6300	POS PARK	mg/kg	0	mg/kg	0.2	0.2	<0.08	<0.08	0.2	<0.08	0.3	2.4	0.1	<0.08	<0.08	2.5	<0.08	4.5	<0.08	3.0	1.0	0.2	45.9	0.4	<0.08	3.4	0.2		
Benzo(k)fluoranthene	114	POS Maintenance	mg/kg	0	mg/kg	0.1	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	0.4	<0.07	<0.07	<0.07	0.5	<0.07	0.5	<0.07	1.3	0.2	0.1	7.9	0.2	<0.07	0.7	0.1		
Acenaphthylene	28900	POS PARK	mg/kg	0	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.0	<0.01	<0.01	<0.01	0.0	<0.01	0.1	<0.01	0.0	0.0	<0.01	0.1	0.0	<0.01	0.1	<0.01		
Chrysene	91	POS Maintenance	mg/kg	0	mg/kg	0.2	0.1	<0.06	<0.06	0.1	<0.06	0.2	1.1	<0.06	<0.06	<0.06	1.2	<0.06	1.5	<0.06	2.8	0.5	0.2	21.2	0.3	<0.06	2.1	0.2		
Benzo(a)pyrene	10.8	POS PARK	mg/kg	4	mg/kg	0.2	0.1	<0.04	<0.04	0.1	<0.04	0.2	1.0	<0.04	<0.04	<0.04	1.1	<0.04	1.2	<0.04	3.5	0.5	0.2	18.5	0.3	<0.04	1.8	0.1		
Dibenz-a-h-anthracene	1.15	POS PARK	mg/kg	5	mg/kg	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.1	<0.04	<0.04	<0.04	0.1	<0.04	0.2	<0.04	0.4	0.1	<0.04	2.9	0.1	<0.04	0.2	<0.04		
Benzo(a)anthracene	48.8	POS PARK	mg/kg	0	mg/kg	0.1	0.1	<0.04	<0.04	0.1	<0.04	0.1	1.3	0.1	<0.04	<0.04	1.2	<0.04	1.5	<0.04	2.7	0.5	0.2	24.4	0.3	<0.04	2.0	0.1		
Cyanide	24	POS PARK	mg/kg	5	mg/kg				<1	<1	<1	<1	8.0	<1	<1	<1	21.0	3.0	<1	<1	2.0	<1	<1	<1	<1	<1	<1			
Benzene	26.60	Commercial	mg/kg	0	mg/kg		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01			
Lead	1300	POS PARK	mg/kg	13	mg/kg	54.0	38.0	21.0	3.0	24.0	2.0	88.0	62.0	64.0	21.0	3.0	112.0	76.0	342.0	23.0	59.0	312.0	21.0	60.0	36.0	160.0	103.0	258.0	41.0	
Mercury	244	POS PARK	mg/kg	0	mg/kg	<0.17	<0.17	<0.17	0.9	<0.17	0.9	0.8	0.6	0.3	<0.17	1.2	0.8	0.2	0.6	<0.17	0.8	9.3	<0.17	<0.17	0.3	<0.17	<0.17	0.5	<0.17	
Nickel	804	POS PARK	mg/kg	8	mg/kg	24.0	25.0	32.0	9.0	10.0	4.0	11.0	16.0	32.0	26.0	22.0	22.0	56.0	97.0	35.0	32.0	43.0	26.0	12.0	13.0	26.0	37.0	69.0	22.0	
Antimony	3290	POS PARK	mg/kg	0	mg/kg				<5	<5	<5	<5	<5	<5	<5	<5	6.0	15.0	<5	<5	8.0	<5	<5	<5	15.0	<5	18.0	<5		
Arsenic	168	POS PARK	mg/kg	0	mg/kg	8.0	7.0	5.0	<1	3.0	<1	2.0	6.0	10.0	10.0	<1	9.0	58.0	57.0	8.0	11.0	15.0	8.0	3.0	5.0	7.0	6.0	17.0	4.0	
Beryllium	11.7	Commercial	mg/kg	1	mg/kg				<1	<1	<1	1.0	1.0	1.0	<1	1.0	4.0	8.0	2.0	1.0	2.0	1.0	1.0	1.0	1.0	1.0	2.0	2.0	1.0	
Boron	46200	POS PARK	mg/kg	0	mg/kg				<1.0	<1.0	<1.0	2.8	<1.0	2.8	<1.0	1.6	8.6	20.0	2.8	2.5	4.7	5.1	<1.0	<1.0	2.1	2.2	5.4	6.7		
Cadmium	190	Commercial	mg/kg	0	mg/kg	2.5	2.0	2.3	0.6	<0.5	<0.5	1.0	1.2	2.1	2.1	0.6	1.4	2.1	3.8	2.2	1.6	3.7	1.7	1.2	1.2	2.7	2.2	6.0	1.8	
Chromium	8570	Commercial	mg/kg	1	mg/kg	33.0	25.0	30.0	10.0	15.0	3.0	12.0	21.0	28.0	45.0	11.0	21.0	29.0	42.0	47.0	31.0	83.0	30.0	11.0	20.0	39.0	33.0	47.0	32.0	
Copper	44400	POS PARK	mg/kg	2	mg/kg	19.0	17.0	19.0	6.0	4.0	3.0	19.0	19.0	19.0	13.0	6.0	174.0	86.0	438.0	21.0	35.0	127.0	8.0	32.0	20.0	35.0	33.0	176.0	17.0	
Vanadium	2820	POS Maintenance	mg/kg	0	mg/kg				4.0	3.0	14.0	37.0	37.0	37.0	44.0	16.0	32.0	57.0	78.0	55.0	43.0	34.0	34.0	33.0	27.0	47.0	49.0	19.0	41.0	
Zinc	173000	POS PARK	mg/kg	0	mg/kg	90.0	72.0	66.0	26.0	17.0	18.0	76.0	82.0	241.0	87.0	30.0	200.0	149.0	347.0	90.0	121.0	257.0	68.0	64.0	51.0	103.0	145.0	527.0	58.0	
Selenium	1850	POS PARK	mg/kg	0	mg/kg	2.0	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	3.0	3.0	2.0	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.0	<1
Acenaphthene	28900	POS PARK	mg/kg	0	mg/kg	<0.01	0.0	<0.01	<0.01	<0.01	<0.01	0.0	0.1	0.0	<0.01	<0.01	0.1	<0.01	0.1	<0.01	0.1	0.1	<0.01	5.0	<0.01	<0.01	0.1	0.0	<0.01	
Phenanthrene	6170	POS PARK	mg/kg	0	mg/kg	0.1	0.1	<0.03	<0.03	<0.03	<0.03	0.1	0.9	0.1	0.0	<0.03	1.0	<0.03	2.5	<0.03	0.6	0.4	0.1	32.7	0.1	0.1	2.4	<0.03	<0.03	
Fluorene	19600	POS PARK	mg/kg	0	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.0	0.0	0.0	<0.01	<0.01	0.1	<0.01	0.3	<0.01	0.1	0.1	<0.01	3.4	<0.01	<0.01	0.2	0.0	<0.01	
Napthalene	193	Commercial	mg/kg	0	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.1	0.3	<0.03	0.1	0.0	<0.03	0.3	<0.03	0.1	0.0	<0.03	<0.03		
Phenol (Monohydric)	7600	POS Maintenance	mg/kg	0	mg/kg				<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	1.0	1.2	<0.2	<0.2	<0.2	<0.2	
Aromatics >C7-8	56293.7	Commercial	mg/kg	0	mg/kg		<0.01	<0.01	<0.01			<0.01		<0.01		<0.01		<0.05	<0.05	<0.01								<0.01		
Aromatics >C8-10	3460	Commercial	mg/kg	0	mg/kg							1.3		<0.1		<0.1												<0.1		
Aromatics >C10-12	9240	POS PARK	mg/kg	0	mg/kg		<0.1	<0.1	<0.1				10.8		<0.1		<0.1											<0.1		
Aromatics >C12-16	10200	POS PARK	mg/kg	0	mg/kg		<0.1	<0.1	<0.1						<0.1			7.4	10.0	<0.1								<0.1		
Aromatics >C16-21	7630	POS PARK	mg/kg	0	mg/kg		<0.1	<0.1	<0.1						<0.1			41.3	26.3	<0.1								<0.1		
Aromatics >C21-35	7820	POS PARK	mg/kg	0	mg/kg		<0.1	<0.1	<0.1						<0.1			<0.1	80.2	<0.1								<0.1		
Aliphatics >C5-6	3190	Commercial	mg/kg	0	mg/kg		<0.01	<0.01	<0.01						<0.01			<0.05	<0.05	<0.0										

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	ARP16-LF-BH01	ARP16-LF-BH01	ARP16-LF-BH01	ARP16-LF-BH01	ARP16-LF-BH02	ARP16-LF-BH02	ARP16-LF-BH02	ARP16-LF-BH03	ARP16-LF-BH03	ARP16-LF-BH03	ARP16-LF-BH03	ARP16-LF-BH04	ARP16-LF-BH04	ARP16-LF-BH04	ARP16-LF-BH04	ARP16-LF-BH04	ARP16-LF-BH04	ARP16-LF-BH05	ARP16-LF-BH05	ARP16-LF-BH06	ARP16-LF-BH06	ARP16-LF-BH06	ARP16-LF-BH06
					Sample Top	Sample Ref	Sample Type	0.10	0.50	1.00	5.50	1.30	4.30	6.00	0.80	3.00	6.00	9.50	0.90	10.50	13.50	17.80	2.50	5.50	8.80	0.10	2.90	10.50
O-Xylene	6603.1	Commercial	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
2-Methylphenol	46100	POS PARK	mg/kg	0																								
1,2-Dichlorobenzene	2020	Commercial	mg/kg	0																								
2-Chlorophenol	1010	POS PARK	mg/kg	0																								
1,2,4-Trimethylbenzene	39.4	Commercial	mg/kg	0																								
2,4,5-Trichlorophenol	1010	POS PARK	mg/kg	0																								
Isopropylbenzene	1300	Commercial	mg/kg	0																								
4-Isopropyltoluene	1300	Commercial	mg/kg	0																								
m,p xylenes	5923.3	Commercial	mg/kg	0																								
Chromium - Hexavalent	220	POS PARK	mg/kg	0																								
Cyanide Free	168	Commercial	mg/kg	0																								
Complex Cyanide	3460	POS PARK	mg/kg	0																								
4-Nitrophenol	7600000	POS PARK	ug/kg	0																								
Ethylbenzene	5705504.8	Commercial	ug/kg	0																								
Styrene	3170000	Commercial	ug/kg	0																								
n-Propylbenzene	3860000	Commercial	ug/kg	0																								
n-Butylbenzene	26597.9	Commercial	ug/kg	0																								
2,4-Dimethylphenol	9180000	POS PARK	ug/kg	0																								
4-Methylphenol	46000000	POS PARK	ug/kg	0																								
1,4-Dichlorobenzene	4220000	Commercial	ug/kg	0																								
1,2-Dichloroethane	671	Commercial	ug/kg	0																								
1,3,5-Trimethylbenzene	39400	Commercial	ug/kg	3																								
Bromobenzene	91500	Commercial	ug/kg	0																								
Toluene VOC	56293712.79	Commercial	ug/kg	0																								
Chlorobenzene	55600	Commercial	ug/kg	0																								
Phenol SVOC	7600000	POS PARK	ug/kg	0																								
Bis(2-chloroethoxy)methane	956	Commercial	ug/kg	1																								
Bis(2-ethylhexyl)phthalate	16600000	POS PARK	ug/kg	0																								
n-Diethylphthalate	20000000	POS PARK	ug/kg	0																								
Hexachlorobenzene	28900	POS PARK	ug/kg	0																								
1,2,4-Trichlorobenzene	215000	Commercial	ug/kg	0																								
2,4-Dichlorophenol	977000	POS PARK	ug/kg	0																								
2,4-Dinitrotoluene	928000	POS PARK	ug/kg	0																								
Dibromochloromethane	1960	Commercial	ug/kg	0																								
Tetrachloroethene	18600	Commercial	ug/kg	0																								
Dimethyl phthalate	2630000	POS PARK	ug/kg	0																								
Dibenzofuran	10800	POS PARK	ug/kg	5																								
sec-Butylbenzene	26597.8811	Commercial	ug/kg	0																								
cis 1,2-Dichloroethene	13600	Commercial	ug/kg	0																								
trans 1,2-Dichloroethene	20700	Commercial	ug/kg	0																								
Perylene	10800000	POS PARK	ug/kg	0																								
1,3-Dichlorobenzene	29900	Commercial	ug/kg	0																								
Carbon Tetrachloride	2870	Commercial	ug/kg	0																								
4-Chloro-3-methylphenol	46100000	POS PARK	ug/kg	0																								
2,6-Dinitrotoluene	468000	POS PARK	ug/kg	0																								
1,1,1,2-Tetrachloroethane	108000	Commercial	ug/kg	0																								
Chloroform	99100	Commercial	ug/kg	0																								
Hexachloroethane	20900000	Commercial	ug/kg	0																								
Benzene VOC	26597.9	Commercial	ug/kg	0																								
1,1,1-Trichloroethane	660000	Commercial	ug/kg	0																								
Barium	5770	POS PARK	mg/kg	0																								
Chloromethane	956000	Commercial	ug/kg	0																								
Chloroethane	904000000	Commercial	ug/kg	0																								

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	ARP16-LF-BH01	ARP16-LF-BH01	ARP16-LF-BH01	ARP16-LF-BH01	ARP16-LF-BH02	ARP16-LF-BH02	ARP16-LF-BH02	ARP16-LF-BH03	ARP16-LF-BH03	ARP16-LF-BH03	ARP16-LF-BH04	ARP16-LF-BH04	ARP16-LF-BH04	ARP16-LF-BH04	ARP16-LF-BH04	ARP16-LF-BH05	ARP16-LF-BH05	ARP16-LF-BH06	ARP16-LF-BH06	ARP16-LF-BH06	ARP16-LF-BH06
					Sample Top	0.10	0.50	1.00	5.50	1.30	4.30	6.00	0.80	3.00	6.00	9.50	0.90	10.50	13.50	17.80	2.50	5.50	8.80	0.10	2.90	10.50
Sample Ref	1	2	3	4	1	2	3	1	2	3	4	1	5	6	8	2	3	4	1	2	4	1	2	3		
Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	
Vinyl Chloride	59.4	Commercial	ug/kg	0	ug/kg			<1				<1		<1				<1	<1						<1	
Dichloromethane VOC	257000000	Commercial	ug/kg	0	ug/kg			<5				<5		<5				<5	<5							11.0
Carbon Disulphide	11000000	Commercial	ug/kg	0	ug/kg			<1				1.0		<1				4.0	2.0							<1
Bromoform	714000	Commercial	ug/kg	0	ug/kg			<1				<1		<1				<1	<1							<1
Bromodichloromethane	1960	Commercial	ug/kg	0	ug/kg			<10				<10		<10				<10	<10							<10
1,1-Dichloroethane	263000	Commercial	ug/kg	0	ug/kg			<1				<1		<1				<1	<1							<1
1,1-Dichloroethene	24300	Commercial	ug/kg	0	ug/kg			<1				<1		<1				<1	<1							<1
Isophorone	26597881.1	Commercial	ug/kg	0	ug/kg			<100				<100		<100				<100	<100							<100
1,2-Dichloropropane	3130	Commercial	ug/kg	0	ug/kg			<1				<1		<1				<1	<1							<1
1,1,2-Trichloroethane	89100	Commercial	ug/kg	0	ug/kg			<1				<1		<1				<1	<1							<1
Trichloroethene	1230	Commercial	ug/kg	0	ug/kg			<1				<1		<1				<1	<1							<1
1,1,2,2-Tetrachloroethane	274000000	Commercial	ug/kg	0	ug/kg			<1				<1		<1				<1	<1							<1
Diethyl phthalate	89300000	POS PARK	ug/kg	0	ug/kg			<100				<100		<100				<100	<100							<100
n-Dibutylphthalate	2630000	POS PARK	ug/kg	0	ug/kg			<100				<100		<100				321.0	<100							<100
Butylbenzyl phthalate SVOC	254000000	POS PARK	ug/kg	0	ug/kg			<100				<100		<100				<100	<100							<100
Carbazole	10800	POS PARK	ug/kg	2	ug/kg			<100				<100		<100				194.0	<100							<100
1,2,3-Trichlorobenzene	102000	Commercial	ug/kg	0	ug/kg			<3				<3		<3				<3	<3							<3
Hexachlorobutadiene	30700	Commercial	ug/kg	0	ug/kg			<1				<1		<1				<1	<1							<1
Pentachlorophenol	113000	POS PARK	ug/kg	0	ug/kg			<100				<100		<100				<100	<100							<100
2,4,6-Trichlorophenol	1010000	POS PARK	ug/kg	0	ug/kg			<100				<100		<100				<100	<100							<100
2-Nitrophenol	7600000000	POS PARK	ug/kg	0	ug/kg			<100				<100		<100				<100	<100							<100
2-Methylnaphthalene (SVOC) DEFAULT	193000	Commercial	ug/kg	2	ug/kg			<100				<100		<100				<100	<100							<100
2-Chloronaphthalene	370000	Commercial	ug/kg	0	ug/kg			<100				<100		<100				<100	<100							<100
o-Xylene	6603100.7	Commercial	ug/kg	0	ug/kg			<1				<1		<1				<1	<1							1.0
2-Methylphenol	46100000	POS PARK	ug/kg	0	ug/kg			<100				<100		<100				316.0	<100							<100
1,2-Dichlorobenzene	2020000	Commercial	ug/kg	0	ug/kg			<1				<1		<1				<1	<1							<1
2-Chlorophenol	1010000	POS PARK	ug/kg	0	ug/kg			<100				<100		<100				<100	<100							<100
1,2,4-Trimethylbenzene	39400	Commercial	ug/kg	5	ug/kg			<1				<1		<1				1.0	<1							1.0
2,4,5-Trichlorophenol	1010000	POS PARK	ug/kg	0	ug/kg			<100				<100		<100				<100	<100							<100
Isopropylbenzene	1300000	Commercial	ug/kg	0	ug/kg			<1				<1		<1				<1	<1							1.0
Nitrobenzene	26597881.1	Commercial	ug/kg	0	ug/kg			<100				<100		<100				<100	<100							<100
4-Isopropyltoluene	1300000	Commercial	ug/kg	0	ug/kg			<1				<1		32.0				<1	<1							<1
m & p Xylene	5923262.7	Commercial	ug/kg	0	ug/kg			<1				<1		<1				1.0	<1							6.0
Aro >C8-C9	7220	POS PARK	mg/kg	0	mg/kg			<0.01	<0.01	<0.01		<0.01		<0.01				<0.05	<0.05	<0.01						0.1
Aro >C9-C10	7220	POS PARK	mg/kg	0	mg/kg			<0.01	<0.01	<0.01		<0.01		<0.01				0.2	<0.05	<0.01						0.1
Tributyltin SUBCON I2	42400000	POS PARK	ug/kg	0	ug/kg							<10														<10
Atrazine SUBCON Alcontrol	379000000	POS Maintenance	ug/kg	0	ug/kg							<50														<50
Aldrin SUBCON Alcontrol	7800000	POS PARK	ug/kg	0	ug/kg							<50														<50
alpha-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	46500000	POS PARK	ug/kg	0	ug/kg							<50														<50
beta-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	13300000	POS PARK	ug/kg	0	ug/kg							<50														<50
Endosulphan II	1960000000	POS Maintenance	ug/kg	0	ug/kg							<50														<50
Dieldrin SUBCON Alcontrol	12900000	POS PARK	ug/kg	0	ug/kg							<50														<50
Dichlorvos	26000000	POS PARK	ug/kg	0	ug/kg							<50														<50
Endosulphan I	1950000000	POS Maintenance	ug/kg	0	ug/kg							<50														<50
Aro >C35-C44	7820	POS PARK	mg/kg	0	mg/kg							<0.1		<0.1				<0.1	0.5	<0.1						<0.1
Ali >C35-C44	455000	POS PARK	mg/kg	0	mg/kg							2.5		<0.1				<0.1	1.2	<0.1						6.8
Anthracene SVOC	149000000	POS PARK	ug/kg	0	ug/kg																					
Pyrene SVOC	15100000	POS PARK	ug/kg	0	ug/kg																					
Benzo(ghi)perylene SVOC	612000	POS Maintenance	ug/kg	0	ug/kg																					
Indeno(1,2,3-cd)pyrene SVOC	44000	POS Maintenance	ug/kg	1	ug/kg																					
Benzo(b)fluoranthene SVOC	13200	POS PARK	ug/kg	7	ug/kg																					
Fluoranthene SVOC	6300000	POS PARK	ug/kg	0	ug/kg																					

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	ARP16-LF-BH07	ARP16-LF-BH07	ARP16-LF-BH07	ARP16-LF-BH07	ARP16-LF-BH07	ARP16-LF-BH08	ARP16-LF-BH08	ARP16-LF-BH08	ARP16-LF-BH08	ARP16-LF-BH08	ARP16-LF-BH09	ARP16-LF-BH09	ARP16-LF-BH09	ARP16-LF-BH09	ARP16-LF-BH10	ARP16-LF-BH10	ARP16-LF-BH10	ARP16-LF-BH10	ARP16-LF-BH11	ARP16-LF-BH12	ARP16-LF-BH12	ARP16-LF-BH12	ARP16-LF-BH12A	ARP16-LF-BH12A	
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Ethylbenzene	5705.5	Commercial	mg/kg	0	mg/kg	<0.01	<0.01	0.0	0.6	0.1	<0.01	<0.01	<0.01	<0.01	1.3		<0.01	0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Toluene	56293.7	Commercial	mg/kg	0	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.0	<0.01	<0.01	<0.01	<0.01	<0.01
Anthracene	149000	POS PARK	mg/kg	0	mg/kg	0.4	0.2	0.6	2.9	5.8	0.5	<0.02	14.8	0.8		<0.02	0.1	<0.02	0.2	0.1	0.1	<0.02	<0.02	0.2	0.1	0.3	0.0	9.0		
Pyrene	15100	POS PARK	mg/kg	0	mg/kg	2.8	0.6	1.7	9.6	22.3	1.4	0.1	28.5	2.8		0.2	0.1	0.1	0.9	0.2	1.6	<0.07	<0.07	3.2	1.7	2.3	0.2	23.4		
Xylene	6603.1	Commercial	mg/kg	0	mg/kg																									
Benzo (g,h,i) perylene	612	POS Maintenance	mg/kg	0	mg/kg	0.6	0.2	0.2	1.2	3.6	0.3	0.1	2.6	0.9		0.1	<0.05	<0.05	0.5	0.1	0.8	<0.05	<0.05	1.0	0.4	0.6	<0.05	3.3		
Indeno(1,2,3-cd)pyrene	44	POS Maintenance	mg/kg	0	mg/kg	0.8	0.2	0.2	1.5	4.7	0.3	0.1	3.4	1.0		0.1	0.0	<0.03	0.6	0.1	1.1	0.0	<0.03	1.5	0.6	0.8	0.1	5.6		
Benzo(b)fluoranthene	13.2	POS PARK	mg/kg	4	mg/kg	1.5	0.5	0.5	3.4	11.0	0.6	0.2	10.1	2.2		<0.05	0.1	0.1	0.7	0.1	1.5	<0.05	<0.05	2.6	1.0	1.3	0.1	12.4		
Fluoranthene	6300	POS PARK	mg/kg	0	mg/kg	3.5	0.9	2.1	13.0	25.1	1.7	0.2	37.4	3.7		0.2	0.3	0.3	1.0	0.2	1.7	<0.08	<0.08	3.5	1.8	3.0	0.2	26.7		
Benzo(k)fluoranthene	114	POS Maintenance	mg/kg	0	mg/kg	0.7	0.3	0.2	1.5	3.5	0.2	<0.07	3.6	0.7		<0.07	<0.07	<0.07	0.3	<0.07	0.6	<0.07	<0.07	1.0	0.4	0.5	<0.07	4.8		
Acenaphthylene	28900	POS PARK	mg/kg	0	mg/kg	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.3	0.1		<0.01	<0.01	<0.01	0.0	<0.01	0.1	<0.01	<0.01	0.0	<0.01	0.0	<0.01	2.6		
Chrysene	91	POS Maintenance	mg/kg	0	mg/kg	1.6	0.3	0.6	3.6	9.4	0.6	0.1	12.0	1.3		0.2	0.1	0.1	0.6	0.1	1.2	<0.06	<0.06	2.3	0.8	0.9	0.1	11.2		
Benzo(a)pyrene	10.8	POS PARK	mg/kg	4	mg/kg	1.3	0.2	0.4	2.6	8.9	0.5	0.1	7.6	1.1		0.1	0.1	0.1	0.7	0.1	1.4	<0.04	<0.04	2.3	0.8	1.0	0.1	10.4		
Dibenz-a-h-anthracene	1.15	POS PARK	mg/kg	5	mg/kg	0.1	<0.04	<0.04	0.3	0.7	0.1	<0.04	0.9	0.3		<0.04	<0.04	<0.04	0.1	<0.04	0.2	<0.04	<0.04	0.2	0.1	0.1	<0.04	0.8		
Benzo(a)anthracene	48.8	POS PARK	mg/kg	0	mg/kg	1.5	0.2	0.6	3.7	12.7	0.6	0.1	13.9	1.4		0.1	0.1	0.1	0.6	0.1	1.2	<0.04	<0.04	2.3	0.8	1.0	0.1	14.3		
Cyanide	24	POS PARK	mg/kg	5	mg/kg	<1	1.0	<1	<1	<1	<1	1.0	<1	2.0	8.0	<1	<1	1.0	4.0	<1	<1	2.0	<1	<1	<1	3.0	6.0	1.0	44.0	
Benzene	26.60	Commercial	mg/kg	0	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05		<0.01	0.0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.0	<0.01	<0.01	<0.01	<0.01
Lead	1300	POS PARK	mg/kg	13	mg/kg	52.0	272.0	140.0	52.0	148.0	10.0	242.0	62.0	20.0	145.0	15.0	143.0	15700.0	492.0	33.0	52.0	91.0	5.0	44.0	134.0	177.0	811.0	36.0	159.0	
Mercury	244	POS PARK	mg/kg	0	mg/kg	<0.17	<0.17	0.6	<0.17	<0.17	1.0	1.2	0.6	0.6	0.4	0.6	<0.17	<0.17	0.3	<0.17	<0.17	1.0	0.7	<0.17	0.3	1.0	0.6	0.2	0.2	
Nickel	804	POS PARK	mg/kg	8	mg/kg	22.0	28.0	20.0	42.0	751.0	9.0	71.0	30.0	20.0	152.0	19.0	36.0	40.0	108.0	15.0	18.0	19.0	16.0	18.0	22.0	50.0	52.0	30.0	26.0	
Antimony	3290	POS PARK	mg/kg	0	mg/kg	<5	5.0	<5	<5	13.0	<5	14.0	<5	<5	22.0	<5	<5	11.0	22.0	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
Arsenic	168	POS PARK	mg/kg	0	mg/kg	7.0	13.0	5.0	16.0	33.0	3.0	52.0	10.0	6.0	12.0	2.0	13.0	11.0	53.0	9.0	8.0	9.0	2.0	5.0	10.0	12.0	8.0	7.0	24.0	
Beryllium	11.7	Commercial	mg/kg	1	mg/kg	1.0	1.0	<1	1.0	2.0	<1	7.0	1.0	1.0	1.0	<1	2.0	<1	8.0	1.0	<1	1.0	<1	1.0	<1	1.0	3.0	2.0	1.0	1.0
Boron	46200	POS PARK	mg/kg	0	mg/kg	1.9	8.4	4.9	3.1	2.3	3.8	13.0	2.5	2.0	6.5	<1.0	3.3	7.4	13.2	<1.0	1.5	1.1	<1.0	<1.0	1.7	4.4	19.3	1.2	1.3	
Cadmium	190	Commercial	mg/kg	0	mg/kg	3.2	2.3	1.3	2.5	7.6	<0.5	3.9	2.1	0.9	9.9	0.7	1.9	1.3	6.0	1.1	1.3	0.9	0.6	1.3	1.4	3.0	2.0	1.7	1.6	
Chromium	8570	Commercial	mg/kg	1	mg/kg	27.0	218.0	17.0	90.0	476.0	9.0	37.0	36.0	23.0	95.0	14.0	29.0	23.0	50.0	25.0	22.0	15.0	12.0	25.0	21.0	36.0	48.0	44.0	28.0	
Copper	44400	POS PARK	mg/kg	2	mg/kg	23.0	85.0	160.0	43.0	314.0	8.0	2030.0	29.0	13.0	457.0	10.0	38.0	39.0	472.0	17.0	20.0	185.0	9.0	17.0	71.0	96.0	412.0	65.0	33.0	
Vanadium	2820	POS Maintenance	mg/kg	0	mg/kg	34.0	28.0	17.0	33.0	53.0	10.0	56.0	45.0	36.0	54.0	18.0	36.0	23.0	61.0	34.0	38.0	19.0	16.0	29.0	39.0	44.0	46.0	64.0	46.0	
Zinc	173000	POS PARK	mg/kg	0	mg/kg	117.0	2240.0	117.0	277.0	157.0	30.0	1700.0	117.0	46.0	631.0	58.0	263.0	35.0	515.0	55.0	82.0	192.0	35.0	77.0	117.0	371.0	497.0	82.0	113.0	
Selenium	1850	POS PARK	mg/kg	0	mg/kg	<1	1.0	<1	1.0	3.0	<1	2.0	<1	3.0	<1	3.0	<1	2.0	1.0	<1	<1	<1	<1	<1	2.0	3.0	2.0	2.0	2.0	
Acenaphthene	28900	POS PARK	mg/kg	0	mg/kg	0.1	0.2	0.6	5.3	3.6	0.8	<0.01	35.8	0.8		0.0	0.1	<0.01	0.0	<0.01	<0.01	<0.01	<0.01	<0.01	0.0	<0.01	0.2	<0.01	2.1	
Phenanthrene	6170	POS PARK	mg/kg	0	mg/kg	1.4	0.4	2.3	12.8	16.1	2.0	0.0	57.0	2.5		0.1	0.3	<0.03	0.6	0.2	0.4	<0.03	<0.03	0.7	0.4	1.2	0.1	24.2		
Fluorene	19600	POS PARK	mg/kg	0	mg/kg	0.1	0.1	0.8	4.2	3.1	0.5	<0.01	28.6	0.7		0.0	0.2	<0.01	0.1	<0.01	<0.01	<0.01	<0.01	<0.01	0.0	<0.01	0.3	<0.01	6.6	
Napthalene	193	Commercial	mg/kg	0	mg/kg	<0.03	0.6	1.7	1.4	3.2	<0.03	0.0	33.9	0.6		<0.03	9.8	0.1	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.0	<0.03	2.1
Phenol (Monohydric)	7600	POS Maintenance	mg/kg	0	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Aromatics >C7-8	56293.7	Commercial	mg/kg	0	mg/kg	<0.01		<0.01	<0.01					<0.01	<0.01	<0.05			<0.01	<0.01	<0.01							<0.01		
Aromatics >C8-10	3460	Commercial	mg/kg	0	mg/kg																									
Aromatics >C10-12	9240	POS PARK	mg/kg	0	mg/kg	<0.1		0.5	1.5				20.7	7.2	18.9			45.8	0.9	<0.1							0.4			
Aromatics >C12-16	10200	POS PARK	mg/kg	0	mg/kg	<0.1		2.2	21.7				89.7	6.8	31.5			16.2	6.5	0.2							1.1			
Aromatics >C16-21	7630	POS PARK	mg/kg	0	mg/kg	<0.1		22.9	36.7				138.0	53.0	314.0			21.5	51.8	2.3							17.6			
Aromatics >C21-35	7820	POS PARK	mg/kg	0	mg/kg	<0.1		134.0	65.4				213.0	176.0	943.0			32.4	217.0	33.0							82.9			
Aliphatics >C5-6	3190	Commercial	mg/kg	0	mg/kg	<0.01		<0.01	<0.01					<0.05																

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	ARP16-LF-BH07	ARP16-LF-BH07	ARP16-LF-BH07	ARP16-LF-BH07	ARP16-LF-BH07	ARP16-LF-BH08	ARP16-LF-BH08	ARP16-LF-BH08	ARP16-LF-BH08	ARP16-LF-BH08	ARP16-LF-BH09	ARP16-LF-BH09	ARP16-LF-BH09	ARP16-LF-BH09	ARP16-LF-BH10	ARP16-LF-BH10	ARP16-LF-BH10	ARP16-LF-BH10	ARP16-LF-BH11	ARP16-LF-BH12	ARP16-LF-BH12	ARP16-LF-BH12	ARP16-LF-BH12A	ARP16-LF-BH12A		
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
n-propylbenzene	3860	Commercial	mg/kg	0	mg/kg																										
n-Butylbenzene	26.598	Commercial	mg/kg	0	mg/kg																										
2,4-Dimethylphenol	9180	POS PARK	mg/kg	0	mg/kg																										
3/4 Methylphenol	46000	POS PARK	mg/kg	0	mg/kg																										
1,4-Dichlorobenzene	4220	Commercial	mg/kg	0	mg/kg																										
1,2-Dichloroethane	0.671	Commercial	mg/kg	0	mg/kg																										
1,3,5-Trimethylbenzene	39.4	Commercial	mg/kg	0	mg/kg																										
Bromobenzene	91.5	Commercial	mg/kg	0	mg/kg																										
Chlorobenzene	55.6	Commercial	mg/kg	0	mg/kg																										
Phenol	7600	POS PARK	mg/kg	0	mg/kg																										
Bis(2-chloroethoxy)methane	0.956	Commercial	mg/kg	0	mg/kg																										
Bis(2-ethylhexyl)phthalate	16600	POS PARK	mg/kg	0	mg/kg																										
Di-N-Octyl Phthalate	20000	POS PARK	mg/kg	0	mg/kg																										
Hexachlorobenzene (HCB)	28.9	POS PARK	mg/kg	0	mg/kg																										
1,2,4-Trichlorobenzene	215	Commercial	mg/kg	0	mg/kg																										
2,4-Dichlorophenol	977	POS PARK	mg/kg	0	mg/kg																										
2,4-Dinitrotoluene	928	POS PARK	mg/kg	0	mg/kg																										
Dibromochloromethane	1.96	Commercial	mg/kg	0	mg/kg																										
Tetrachloroethene	18.6	Commercial	mg/kg	0	mg/kg																										
Dimethylphthalate	2630	POS PARK	mg/kg	0	mg/kg																										
Dibenzofuran	10.8	POS PARK	mg/kg	0	mg/kg																										
Sec-Butylbenzene	26.6	Commercial	mg/kg	0	mg/kg																										
cis-1,2-Dichloroethene	13.6	Commercial	mg/kg	0	mg/kg																										
trans-1,2-Dichloroethene	20.7	Commercial	mg/kg	0	mg/kg																										
Methyl tert-butyl ether (MTBE)	7480	Commercial	mg/kg	0	mg/kg	<0.01	<0.01	<0.01			<0.01	<0.01	<0.05			<0.01	<0.01	<0.01			<0.01						<0.01				
1,3-Dichlorobenzene	29.9	Commercial	mg/kg	0	mg/kg																										
Tetrachloromethane (Carbon Tetra Chloride)	2.87	Commercial	mg/kg	0	mg/kg																										
2,3,4,6-Tetrachlorophenol	1000	POS PARK	mg/kg	0	mg/kg																										
4-Chloro-3-Methylphenol	46100	POS PARK	mg/kg	0	mg/kg																										
2,6-Dinitrotoluene	468	POS PARK	mg/kg	0	mg/kg																										
1,1,1,2-Tetrachloroethane	108	Commercial	mg/kg	0	mg/kg																										
Chloroform	99.1	Commercial	mg/kg	0	mg/kg																										
1,1,1-Trichloroethane	660	Commercial	mg/kg	0	mg/kg																										
Chloroethene	0.0594	Commercial	mg/kg	0	mg/kg																										
Tribromomethane	714	Commercial	mg/kg	0	mg/kg																										
Bromodichloromethane	1.96	Commercial	mg/kg	0	mg/kg																										
1,1-Dichloroethane	263	Commercial	mg/kg	0	mg/kg																										
1,1-Dichloroethene	24.3	Commercial	mg/kg	0	mg/kg																										
1,2-Dichloropropane	3.13	Commercial	mg/kg	0	mg/kg																										
1,1,2-Trichloroethane	89.1	Commercial	mg/kg	0	mg/kg																										
Trichloroethene	1.23	Commercial	mg/kg	0	mg/kg																										
Diethylphthalate	89300	POS PARK	mg/kg	0	mg/kg																										
Di-N-Butyl Phthalate	2630	POS PARK	mg/kg	0	mg/kg																										
Butylbenzylphthalate	254000	POS PARK	mg/kg	0	mg/kg																										
Carbazole	10.8	POS PARK	mg/kg	0	mg/kg																										
1,2,3 Trichlorobenzene	102	Commercial	mg/kg	0	mg/kg																										
Hexachlorobutadiene (HCBD)	30.7	Commercial	mg/kg	0	mg/kg																										
Pentachlorophenol (PCP)	113	POS PARK	mg/kg	0	mg/kg				<0.1			<0.1				<0.1					<0.1							<0.1			
2,4,6-Trichlorophenol	1010	POS PARK	mg/kg	0	mg/kg																										
2-Nitroaniline	10.8	POS PARK	mg/kg	0	mg/kg																										
2-Methylnaphthalene	193	Commercial	mg/kg	0	mg/kg																										
2-Chloronaphthalene	370	Commercial	mg/kg	0	mg/kg																										
2,3,5,6-Tetrachlorophenol	1000	POS PARK	mg/kg	0	mg/kg																										

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	ARP16-LF-BH12A	ARP16-LF-BH13	ARP16-LF-BH13	ARP16-MPT-BH101	ARP16-MPT-BH101	ARP16-MPT-BH101	ARP16-MPT-BH101	ARP16-MPT-BH102	ARP16-MPT-BH102	ARP16-MPT-BH102	ARP16-MPT-BH102	ARP16-MPT-BH102	ARP16-MPT-BH102	ARP16-MPT-BH103	ARP16-MPT-BH103	ARP16-MPT-BH104	ARP16-MPT-BH104	ARP16-MPT-BH106	ARP16-MPT-BH106	ARP16-MPT-BH107	ARP16-MPT-BH107	ARP16-MPT-BH107	ARP16-MPT-BH109	
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
n-propylbenzene	3860	Commercial	mg/kg	0	mg/kg																								
n-Butylbenzene	26.598	Commercial	mg/kg	0	mg/kg																								
2,4-Dimethylphenol	9180	POS PARK	mg/kg	0	mg/kg																								
3/4 Methylphenol	46000	POS PARK	mg/kg	0	mg/kg																								
1,4-Dichlorobenzene	4220	Commercial	mg/kg	0	mg/kg																								
1,2-Dichloroethane	0.671	Commercial	mg/kg	0	mg/kg																								
1,3,5-Trimethylbenzene	39.4	Commercial	mg/kg	0	mg/kg																								
Bromobenzene	91.5	Commercial	mg/kg	0	mg/kg																								
Chlorobenzene	55.6	Commercial	mg/kg	0	mg/kg																								
Phenol	7600	POS PARK	mg/kg	0	mg/kg																								
Bis(2-chloroethoxy)methane	0.956	Commercial	mg/kg	0	mg/kg																								
Bis(2-ethylhexyl)phthalate	16600	POS PARK	mg/kg	0	mg/kg																								
Di-N-Octyl Phthalate	20000	POS PARK	mg/kg	0	mg/kg																								
Hexachlorobenzene (HCB)	28.9	POS PARK	mg/kg	0	mg/kg																								
1,2,4-Trichlorobenzene	215	Commercial	mg/kg	0	mg/kg																								
2,4-Dichlorophenol	977	POS PARK	mg/kg	0	mg/kg																								
2,4-Dinitrotoluene	928	POS PARK	mg/kg	0	mg/kg																								
Dibromochloromethane	1.96	Commercial	mg/kg	0	mg/kg																								
Tetrachloroethene	18.6	Commercial	mg/kg	0	mg/kg																								
Dimethylphthalate	2630	POS PARK	mg/kg	0	mg/kg																								
Dibenzofuran	10.8	POS PARK	mg/kg	0	mg/kg																								
Sec-Butylbenzene	26.6	Commercial	mg/kg	0	mg/kg																								
cis-1,2-Dichloroethene	13.6	Commercial	mg/kg	0	mg/kg																								
trans-1,2-Dichloroethene	20.7	Commercial	mg/kg	0	mg/kg																								
Methyl tert-butyl ether (MTBE)	7480	Commercial	mg/kg	0	mg/kg			<0.01		<0.01		<0.01		<0.01		<0.01		<0.01		<0.01		<0.01							
1,3-Dichlorobenzene	29.9	Commercial	mg/kg	0	mg/kg																								
Tetrachloromethane (Carbon Tetra Chloride)	2.87	Commercial	mg/kg	0	mg/kg																								
2,3,4,6-Tetrachlorophenol	1000	POS PARK	mg/kg	0	mg/kg																								
4-Chloro-3-Methylphenol	46100	POS PARK	mg/kg	0	mg/kg																								
2,6-Dinitrotoluene	468	POS PARK	mg/kg	0	mg/kg																								
1,1,1,2-Tetrachloroethane	108	Commercial	mg/kg	0	mg/kg																								
Chloroform	99.1	Commercial	mg/kg	0	mg/kg																								
1,1,1-Trichloroethane	660	Commercial	mg/kg	0	mg/kg																								
Chloroethene	0.0594	Commercial	mg/kg	0	mg/kg																								
Tribromomethane	714	Commercial	mg/kg	0	mg/kg																								
Bromodichloromethane	1.96	Commercial	mg/kg	0	mg/kg																								
1,1-Dichloroethane	263	Commercial	mg/kg	0	mg/kg																								
1,1-Dichloroethene	24.3	Commercial	mg/kg	0	mg/kg																								
1,2-Dichloropropane	3.13	Commercial	mg/kg	0	mg/kg																								
1,1,2-Trichloroethane	89.1	Commercial	mg/kg	0	mg/kg																								
Trichloroethene	1.23	Commercial	mg/kg	0	mg/kg																								
Diethylphthalate	89300	POS PARK	mg/kg	0	mg/kg																								
Di-N-Butyl Phthalate	2630	POS PARK	mg/kg	0	mg/kg																								
Butylbenzylphthalate	254000	POS PARK	mg/kg	0	mg/kg																								
Carbazole	10.8	POS PARK	mg/kg	0	mg/kg																								
1,2,3 Trichlorobenzene	102	Commercial	mg/kg	0	mg/kg																								
Hexachlorobutadiene (HCBD)	30.7	Commercial	mg/kg	0	mg/kg																								
Pentachlorophenol (PCP)	113	POS PARK	mg/kg	0	mg/kg																								
2,4,6-Trichlorophenol	1010	POS PARK	mg/kg	0	mg/kg																								
2-Nitroaniline	10.8	POS PARK	mg/kg	0	mg/kg																								
2-Methylnaphthalene	193	Commercial	mg/kg	0	mg/kg																								
2-Chloronaphthalene	370	Commercial	mg/kg	0	mg/kg																								
2,3,5,6-Tetrachlorophenol	1000	POS PARK	mg/kg	0	mg/kg																								

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	ARP16-LF-BH12A	ARP16-LF-BH13	ARP16-LF-BH13	ARP16-MPT-BH101	ARP16-MPT-BH101	ARP16-MPT-BH101	ARP16-MPT-BH101	ARP16-MPT-BH102	ARP16-MPT-BH102	ARP16-MPT-BH102	ARP16-MPT-BH102	ARP16-MPT-BH102	ARP16-MPT-BH102	ARP16-MPT-BH102	ARP16-MPT-BH103	ARP16-MPT-BH103	ARP16-MPT-BH104	ARP16-MPT-BH104	ARP16-MPT-BH106	ARP16-MPT-BH106	ARP16-MPT-BH107	ARP16-MPT-BH107	ARP16-MPT-BH107	ARP16-MPT-BH109
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
O-Xylene	6603.1	Commercial	mg/kg	0	mg/kg	<0.01		<0.01	<0.01		<0.01		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01						<0.01
2-Methylphenol	46100	POS PARK	mg/kg	0	mg/kg																								
1,2-Dichlorobenzene	2020	Commercial	mg/kg	0	mg/kg																								
2-Chlorophenol	1010	POS PARK	mg/kg	0	mg/kg																								
1,2,4-Trimethylbenzene	39.4	Commercial	mg/kg	0	mg/kg																								
2,4,5-Trichlorophenol	1010	POS PARK	mg/kg	0	mg/kg																								
Isopropylbenzene	1300	Commercial	mg/kg	0	mg/kg																								
4-Isopropyltoluene	1300	Commercial	mg/kg	0	mg/kg																								
m,p xylenes	5923.3	Commercial	mg/kg	0	mg/kg	<0.01		<0.01	<0.01		<0.01		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01						<0.01
Chromium - Hexavalent	220	POS PARK	mg/kg	0	mg/kg	<1																							
Cyanide Free	168	Commercial	mg/kg	0	mg/kg																								
Complex Cyanide	3460	POS PARK	mg/kg	0	mg/kg																								
4-Nitrophenol	7600000	POS PARK	ug/kg	0	ug/kg										<100		<100												
Ethylbenzene	5705504.8	Commercial	ug/kg	0	ug/kg										<1		<1												
Styrene	3170000	Commercial	ug/kg	0	ug/kg										<1		<1												
n-Propylbenzene	3860000	Commercial	ug/kg	0	ug/kg										<1		<1												
n-Butylbenzene	26597.9	Commercial	ug/kg	0	ug/kg										<1		<1												
2,4-Dimethylphenol	9180000	POS PARK	ug/kg	0	ug/kg										<100		<100												
4-Methylphenol	46000000	POS PARK	ug/kg	0	ug/kg										<100		<100												
1,4-Dichlorobenzene	4220000	Commercial	ug/kg	0	ug/kg										<1		<1												
1,2-Dichloroethane	671	Commercial	ug/kg	0	ug/kg										<2		<2												
1,3,5-Trimethylbenzene	39400	Commercial	ug/kg	3	ug/kg										<1		<1												
Bromobenzene	91500	Commercial	ug/kg	0	ug/kg										<1		<1												
Toluene VOC	56293712.79	Commercial	ug/kg	0	ug/kg										<1		<1												
Chlorobenzene	55600	Commercial	ug/kg	0	ug/kg										<1		<1												
Phenol SVOC	7600000	POS PARK	ug/kg	0	ug/kg										<100		<100												
Bis(2-chloroethoxy)methane	956	Commercial	ug/kg	1	ug/kg										<100		<100												
Bis(2-ethylhexyl)phthalate	16600000	POS PARK	ug/kg	0	ug/kg										<100		<100												
n-Diethylphthalate	20000000	POS PARK	ug/kg	0	ug/kg										<100		<100												
Hexachlorobenzene	28900	POS PARK	ug/kg	0	ug/kg										<100		<100												
1,2,4-Trichlorobenzene	215000	Commercial	ug/kg	0	ug/kg										<3		<3												
2,4-Dichlorophenol	977000	POS PARK	ug/kg	0	ug/kg										<100		<100												
2,4-Dinitrotoluene	928000	POS PARK	ug/kg	0	ug/kg										<100		<100												
Dibromochloromethane	1960	Commercial	ug/kg	0	ug/kg										<3		<3												
Tetrachloroethene	18600	Commercial	ug/kg	0	ug/kg										<1		<1												
Dimethyl phthalate	2630000	POS PARK	ug/kg	0	ug/kg										<100		<100												
Dibenzofuran	10800	POS PARK	ug/kg	5	ug/kg										<100		<100												
sec-Butylbenzene	26597.8811	Commercial	ug/kg	0	ug/kg										<1		<1												
cis 1,2-Dichloroethene	13600	Commercial	ug/kg	0	ug/kg										<1		<1												
trans 1,2-Dichloroethene	20700	Commercial	ug/kg	0	ug/kg										<1		<1												
Perylene	10800000	POS PARK	ug/kg	0	ug/kg										<100		<100												
1,3-Dichlorobenzene	29900	Commercial	ug/kg	0	ug/kg										<1		<1												
Carbon Tetrachloride	2870	Commercial	ug/kg	0	ug/kg										<1		<1												
4-Chloro-3-methylphenol	46100000	POS PARK	ug/kg	0	ug/kg										<100		<100												
2,6-Dinitrotoluene	468000	POS PARK	ug/kg	0	ug/kg										<100		<100												
1,1,1,2-Tetrachloroethane	108000	Commercial	ug/kg	0	ug/kg										<1		<1												
Chloroform	99100	Commercial	ug/kg	0	ug/kg										<1		<1												
Hexachloroethane	20900000	Commercial	ug/kg	0	ug/kg										<100		<100												
Benzene VOC	26597.9	Commercial	ug/kg	0	ug/kg										<1		<1												
1,1,1-Trichloroethane	660000	Commercial	ug/kg	0	ug/kg										<1		<1												
Barium	5770	POS PARK	mg/kg	0	mg/kg		114.0	21.0																					
Chloromethane	956000	Commercial	ug/kg	0	ug/kg										<10		<10												
Chloroethane	904000000	Commercial	ug/kg	0	ug/kg										<1		<1												

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	ARP16-LF-BH12A	ARP16-LF-BH13	ARP16-LF-BH13	ARP16-MPT-BH101	ARP16-MPT-BH101	ARP16-MPT-BH101	ARP16-MPT-BH101	ARP16-MPT-BH102	ARP16-MPT-BH102	ARP16-MPT-BH102	ARP16-MPT-BH102	ARP16-MPT-BH102	ARP16-MPT-BH102	ARP16-MPT-BH103	ARP16-MPT-BH103	ARP16-MPT-BH104	ARP16-MPT-BH104	ARP16-MPT-BH106	ARP16-MPT-BH106	ARP16-MPT-BH107	ARP16-MPT-BH107	ARP16-MPT-BH107	ARP16-MPT-BH109
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Benzo(k)fluoranthene SVOC	114000	POS Maintenance	ug/kg	0	ug/kg																							
Acenaphthylene SVOC	28900000	POS PARK	ug/kg	0	ug/kg																							
Chrysene SVOC	91000	POS Maintenance	ug/kg	1	ug/kg																							
Benzo(a)pyrene SVOC	10800	POS PARK	ug/kg	8	ug/kg																							
Dibenzo(ah)anthracene SVOC	1150	POS PARK	ug/kg	10	ug/kg																							
Benzo(a)anthracene SVOC	48800	POS PARK	ug/kg	2	ug/kg																							
Acenaphthene SVOC	28900000	POS PARK	ug/kg	0	ug/kg																							
Phenanthrene SVOC	6170000	POS PARK	ug/kg	0	ug/kg																							
Fluorene SVOC	19600000	POS PARK	ug/kg	0	ug/kg																							
Naphthalene SVOC	193000	Commercial	ug/kg	1	ug/kg																							
Xylenols	9180	POS PARK	mg/kg	0	mg/kg																							
Cresols	46100	POS PARK	mg/kg	0	mg/kg																							
Tributyltin	42400	POS PARK	mg/kg	0	mg/kg																							
Methyl tert-butyl ether (MTBE)	7480000	Commercial	ug/kg	0	ug/kg																							
Aromatics >C6-7	27000000	Commercial	ug/kg	0	ug/kg																							
Aromatics >C7-8	56293712.8	Commercial	ug/kg	0	ug/kg																							
Aromatics >C8-10	3460000	Commercial	ug/kg	0	ug/kg																							
Aromatics >C10-12	9240000	POS PARK	ug/kg	0	ug/kg																							
Aromatics >C12-16	10200000	POS PARK	ug/kg	0	ug/kg																							
Aromatics >C16-21	7630000	POS PARK	ug/kg	0	ug/kg																							
Aromatics >C21-35	7820000	POS PARK	ug/kg	1	ug/kg																							
Aromatics >C35-44	7820000	POS PARK	ug/kg	0	ug/kg																							
Aliphatics >C5-6	3190000	Commercial	ug/kg	0	ug/kg																							
Aliphatics >C6-8	7780000	Commercial	ug/kg	0	ug/kg																							
Aliphatics >C8-10	2000000	Commercial	ug/kg	1	ug/kg																							
Aliphatics >C10-12	9690000	Commercial	ug/kg	0	ug/kg																							
Aliphatics >C12-16	24700000	POS PARK	ug/kg	0	ug/kg																							
Aliphatics >C16-21	455000000	POS PARK	ug/kg	0	ug/kg																							
Aliphatics >C21-35	455000000	POS PARK	ug/kg	0	ug/kg																							
Aliphatics >C35-44	455000000	POS PARK	ug/kg	0	ug/kg																							
Trivalent Chromium	33000	POS PARK	mg/kg	0	mg/kg																							
Molybdenum	2890	POS PARK	mg/kg	0	mg/kg																							
4-Nitroaniline	10800	POS PARK	ug/kg	0	ug/kg																							
Azobenzene	10800	POS PARK	ug/kg	0	ug/kg																							
4-Chloroaniline	10800000	POS PARK	ug/kg	0	ug/kg																							
2-Nitroaniline	10800	POS PARK	ug/kg	0	ug/kg																							

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Sample Type	Hole Ref	ARP16-MPT BH109	ARP16-MPT BH109	ARP16-MPT BH110	ARP16-MPT BH110	ARP16-MPT BH110	ARP16-MPT BH111	ARP16-MPT BH111	ARP16-MPT BH111	ARP16-MPT BH111	ARP16-MPT BH112	ARP16-MPT BH112	ARP16-MPT BH114	ARP16-MPT BH114	ARP16-MPT BH114	ARP16-MPT BH115	ARP16-MPT BH115	ARP16-MPT BH116	ARP16-MPT BH116	ARP16-MPT BH117	ARP16-MPT BH117	ARP16-MPT IP101	ARP16-MPT IP101	ARP16-MPT IP101	
						Sample Top	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref
Ethylbenzene	5705.5	Commercial	mg/kg	0	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Toluene	56293.7	Commercial	mg/kg	0	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Anthracene	149000	POS PARK	mg/kg	0	mg/kg	0.2	<0.02	0.6	0.1	<0.02	<0.20	<0.02	<0.02	<0.02	0.1	<0.02	<0.02	8.2	<0.02	<0.02	<0.02	0.1	<0.02	<0.02	0.1	<0.02	3.6	0.4	0.3	
Pyrene	15100	POS PARK	mg/kg	0	mg/kg	0.4	<0.07	6.0	0.3	<0.07	<0.70	<0.07	<0.07	<0.07	0.8	<0.07	<0.07	35.2	<0.07	0.1	<0.07	0.2	<0.07	<0.07	0.7	<0.07	41.2	4.0	3.7	
Xylene	6603.1	Commercial	mg/kg	0	mg/kg																									
Benzo (g,h,i) perylene	612	POS Maintenance	mg/kg	0	mg/kg	0.1	<0.05	2.1	0.1	<0.05	<0.50	<0.05	<0.05	<0.05	0.6	0.1	<0.05	8.7	<0.05	<0.05	<0.05	0.1	<0.05	<0.05	0.3	<0.05	6.3	1.1	1.2	
Indeno(1,2,3-cd)pyrene	44	POS Maintenance	mg/kg	0	mg/kg	0.1	<0.03	2.4	0.1	<0.03	<0.30	<0.03	<0.03	<0.03	0.7	0.1	<0.03	10.7	<0.03	0.0	<0.03	0.1	<0.03	<0.03	0.4	<0.03	8.0	1.4	1.5	
Benzo(b)fluoranthene	13.2	POS PARK	mg/kg	4	mg/kg	0.1	<0.05	4.1	0.2	<0.05	<0.50	<0.05	<0.05	<0.05	0.9	0.1	<0.05	19.9	<0.05	0.1	<0.05	0.1	<0.05	<0.05	0.8	<0.05	18.8	3.0	3.2	
Fluoranthene	6300	POS PARK	mg/kg	0	mg/kg	0.5	<0.08	7.0	0.3	<0.08	<0.80	<0.08	<0.08	<0.08	0.9	<0.08	<0.08	37.5	<0.08	0.1	<0.08	0.3	<0.08	<0.08	0.8	<0.08	40.6	3.5	3.5	
Benzo(k)fluoranthene	114	POS Maintenance	mg/kg	0	mg/kg	<0.07	<0.07	1.3	<0.07	<0.07	<0.70	<0.07	<0.07	<0.07	0.3	<0.07	<0.07	7.4	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	0.2	<0.07	6.6	0.8	0.9	
Acenaphthylene	28900	POS PARK	mg/kg	0	mg/kg	<0.01	<0.01	0.0	<0.01	<0.01	<0.10	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.1	0.0	0.0
Chrysene	91	POS Maintenance	mg/kg	0	mg/kg	0.2	<0.06	3.4	0.2	<0.06	<0.60	<0.06	<0.06	<0.06	0.7	0.1	<0.06	13.9	<0.06	<0.06	<0.06	0.1	<0.06	<0.06	0.5	<0.06	18.2	2.0	2.1	
Benzo(a)pyrene	10.8	POS PARK	mg/kg	4	mg/kg	0.1	<0.04	3.2	0.1	<0.04	<0.40	<0.04	<0.04	<0.04	0.8	0.1	<0.04	17.4	<0.04	0.0	<0.04	0.1	<0.04	<0.04	0.6	<0.04	16.6	2.4	2.4	
Dibenz-a-h-anthracene	1.15	POS PARK	mg/kg	5	mg/kg	<0.04	<0.04	0.4	<0.04	<0.04	<0.40	<0.04	<0.04	<0.04	0.1	<0.04	<0.04	1.9	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.1	<0.04	1.7	0.3	0.3	
Benzo(a)anthracene	48.8	POS PARK	mg/kg	0	mg/kg	0.2	<0.04	3.2	0.2	<0.04	<0.40	<0.04	<0.04	<0.04	0.6	0.1	<0.04	14.2	<0.04	0.0	<0.04	0.1	<0.04	<0.04	0.5	<0.04	17.4	1.8	2.0	
Cyanide	24	POS PARK	mg/kg	5	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	2.0	3.0	<1	<1	<1	<1	<1	<1	<1	
Benzene	26.60	Commercial	mg/kg	0	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Lead	1300	POS PARK	mg/kg	13	mg/kg	19.0	3.0	43.0	16.0	3.0	5.0	38.0	20.0	1.0	27.0	25.0	3.0	10.0	11.0	15.0	17.0	4.0	21.0	5.0	13.0	5.0	63.0	43.0	61.0	
Mercury	244	POS PARK	mg/kg	0	mg/kg	<0.17	0.6	<0.17	<0.17	0.6	<0.17	<0.17	<0.17	0.6	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	0.4	<0.17	<0.17	0.3	<0.17	<0.17	0.2	0.3	0.3	
Nickel	804	POS PARK	mg/kg	8	mg/kg	26.0	11.0	16.0	35.0	11.0	7.0	5.0	23.0	3.0	21.0	19.0	7.0	14.0	20.0	7.0	22.0	8.0	6.0	16.0	9.0	15.0	16.0	15.0	14.0	
Antimony	3290	POS PARK	mg/kg	0	mg/kg	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
Arsenic	168	POS PARK	mg/kg	0	mg/kg	4.0	<1	6.0	8.0	<1	<1	2.0	11.0	<1	9.0	9.0	<1	6.0	9.0	2.0	10.0	<1	3.0	2.0	3.0	2.0	6.0	5.0	5.0	
Beryllium	11.7	Commercial	mg/kg	1	mg/kg	1.0	<1	1.0	1.0	<1	<1	<1	1.0	<1	1.0	1.0	<1	1.0	1.0	<1	1.0	<1	<1	<1	<1	1.0	1.0	<1	1.0	
Boron	46200	POS PARK	mg/kg	0	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.1	1.2
Cadmium	190	Commercial	mg/kg	0	mg/kg	1.7	0.5	1.7	3.3	0.7	0.9	1.5	3.2	<0.5	0.9	0.9	<0.5	<0.5	0.9	<0.5	<0.5	1.0	2.3	0.7	<0.5	<0.5	0.7	0.6	0.5	
Chromium	8570	Commercial	mg/kg	1	mg/kg	28.0	10.0	19.0	61.0	13.0	11.0	6.0	48.0	2.0	18.0	27.0	7.0	22.0	45.0	11.0	59.0	10.0	9.0	13.0	10.0	6.0	14.0	13.0	13.0	
Copper	44400	POS PARK	mg/kg	2	mg/kg	17.0	5.0	23.0	17.0	7.0	17.0	81.0	30.0	2.0	13.0	12.0	6.0	8.0	9.0	10.0	13.0	8.0	76.0	13.0	19.0	5.0	40.0	40.0	40.0	
Vanadium	2820	POS Maintenance	mg/kg	0	mg/kg	42.0	13.0	34.0	89.0	19.0	32.0	39.0	76.0	3.0	34.0	40.0	26.0	41.0	62.0	27.0	78.0	32.0	66.0	14.0	27.0	11.0	21.0	17.0	16.0	
Zinc	173000	POS PARK	mg/kg	0	mg/kg	56.0	24.0	141.0	61.0	36.0	21.0	35.0	48.0	12.0	62.0	45.0	19.0	35.0	32.0	30.0	45.0	27.0	56.0	22.0	40.0	22.0	115.0	86.0	91.0	
Selenium	1850	POS PARK	mg/kg	0	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	2.0	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Acenaphthene	28900	POS PARK	mg/kg	0	mg/kg	0.2	<0.01	0.3	0.0	<0.01	<0.10	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	4.2	<0.01	<0.01	<0.01	0.1	<0.01	<0.01	0.0	<0.01	<0.01	0.6	0.2	0.1
Phenanthrene	6170	POS PARK	mg/kg	0	mg/kg	0.7	<0.03	2.7	0.2	<0.03	<0.30	<0.03	<0.03	<0.03	0.2	<0.03	0.1	22.8	<0.03	0.1	<0.03	0.2	<0.03	<0.03	0.3	<0.03	12.4	1.4	1.1	
Fluorene	19600	POS PARK	mg/kg	0	mg/kg	0.2	<0.01	0.2	<0.01	<0.01	<0.10	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	2.8	<0.01	<0.01	<0.01	0.1	<0.01	<0.01	0.0	<0.01	0.5	0.2	0.1	
Napthalene	193	Commercial	mg/kg	0	mg/kg	0.1	<0.03	0.0	<0.03	<0.03	<0.30	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.5	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.1	<0.03	
Phenol (Monohydric)	7600	POS Maintenance	mg/kg	0	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Aromatics >C7-8	56293.7	Commercial	mg/kg	0	mg/kg				<0.01			<0.01													<0.01		<0.01	<0.01	<0.01	
Aromatics >C8-10	3460	Commercial	mg/kg	0	mg/kg																									
Aromatics >C10-12	9240	POS PARK	mg/kg	0	mg/kg				<0.1			<0.1													<0.1		<0.1	<0.1	<0.1	
Aromatics >C12-16	10200	POS PARK	mg/kg	0	mg/kg				<0.1			<0.1													<0.1		<0.1	0.4	0.5	

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	ARP16-MPT BH109	ARP16-MPT BH109	ARP16-MPT BH110	ARP16-MPT BH110	ARP16-MPT BH110	ARP16-MPT BH111	ARP16-MPT BH111	ARP16-MPT BH111	ARP16-MPT BH111	ARP16-MPT BH112	ARP16-MPT BH112	ARP16-MPT BH114	ARP16-MPT BH114	ARP16-MPT BH114	ARP16-MPT BH115	ARP16-MPT BH115	ARP16-MPT BH116	ARP16-MPT BH116	ARP16-MPT BH116	ARP16-MPT BH117	ARP16-MPT BH117	IP101	IP101	IP101	
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
n-propylbenzene	3860	Commercial	mg/kg	0	mg/kg																									
n-Butylbenzene	26.598	Commercial	mg/kg	0	mg/kg																									
2,4-Dimethylphenol	9180	POS PARK	mg/kg	0	mg/kg																									
3/4 Methylphenol	46000	POS PARK	mg/kg	0	mg/kg																									
1,4-Dichlorobenzene	4220	Commercial	mg/kg	0	mg/kg																									
1,2-Dichloroethane	0.671	Commercial	mg/kg	0	mg/kg																									
1,3,5-Trimethylbenzene	39.4	Commercial	mg/kg	0	mg/kg																									
Bromobenzene	91.5	Commercial	mg/kg	0	mg/kg																									
Chlorobenzene	55.6	Commercial	mg/kg	0	mg/kg																									
Phenol	7600	POS PARK	mg/kg	0	mg/kg																									
Bis(2-chloroethoxy)methane	0.956	Commercial	mg/kg	0	mg/kg																									
Bis(2-ethylhexyl)phthalate	16600	POS PARK	mg/kg	0	mg/kg																									
Di-N-Octyl Phthalate	20000	POS PARK	mg/kg	0	mg/kg																									
Hexachlorobenzene (HCB)	28.9	POS PARK	mg/kg	0	mg/kg																									
1,2,4-Trichlorobenzene	215	Commercial	mg/kg	0	mg/kg																									
2,4-Dichlorophenol	977	POS PARK	mg/kg	0	mg/kg																									
2,4-Dinitrotoluene	928	POS PARK	mg/kg	0	mg/kg																									
Dibromochloromethane	1.96	Commercial	mg/kg	0	mg/kg																									
Tetrachloroethene	18.6	Commercial	mg/kg	0	mg/kg																									
Dimethylphthalate	2630	POS PARK	mg/kg	0	mg/kg																									
Dibenzofuran	10.8	POS PARK	mg/kg	0	mg/kg																									
Sec-Butylbenzene	26.6	Commercial	mg/kg	0	mg/kg																									
cis-1,2-Dichloroethene	13.6	Commercial	mg/kg	0	mg/kg																									
trans-1,2-Dichloroethene	20.7	Commercial	mg/kg	0	mg/kg																									
Methyl tert-butyl ether (MTBE)	7480	Commercial	mg/kg	0	mg/kg					<0.01			<0.01													<0.01		<0.01		<0.01
1,3-Dichlorobenzene	29.9	Commercial	mg/kg	0	mg/kg																									
Tetrachloromethane (Carbon Tetra Chloride)	2.87	Commercial	mg/kg	0	mg/kg																									
2,3,4,6-Tetrachlorophenol	1000	POS PARK	mg/kg	0	mg/kg																									
4-Chloro-3-Methylphenol	46100	POS PARK	mg/kg	0	mg/kg																									
2,6-Dinitrotoluene	468	POS PARK	mg/kg	0	mg/kg																									
1,1,1,2-Tetrachloroethane	108	Commercial	mg/kg	0	mg/kg																									
Chloroform	99.1	Commercial	mg/kg	0	mg/kg																									
1,1,1-Trichloroethane	660	Commercial	mg/kg	0	mg/kg																									
Chloroethene	0.0594	Commercial	mg/kg	0	mg/kg																									
Tribromomethane	714	Commercial	mg/kg	0	mg/kg																									
Bromodichloromethane	1.96	Commercial	mg/kg	0	mg/kg																									
1,1-Dichloroethane	263	Commercial	mg/kg	0	mg/kg																									
1,1-Dichloroethene	24.3	Commercial	mg/kg	0	mg/kg																									
1,2-Dichloropropane	3.13	Commercial	mg/kg	0	mg/kg																									
1,1,2-Trichloroethane	89.1	Commercial	mg/kg	0	mg/kg																									
Trichloroethene	1.23	Commercial	mg/kg	0	mg/kg																									
Diethylphthalate	89300	POS PARK	mg/kg	0	mg/kg																									
Di-N-Butyl Phthalate	2630	POS PARK	mg/kg	0	mg/kg																									
Butylbenzylphthalate	254000	POS PARK	mg/kg	0	mg/kg																									
Carbazole	10.8	POS PARK	mg/kg	0	mg/kg																									
1,2,3 Trichlorobenzene	102	Commercial	mg/kg	0	mg/kg																									
Hexachlorobutadiene (HCBD)	30.7	Commercial	mg/kg	0	mg/kg																									
Pentachlorophenol (PCP)	113	POS PARK	mg/kg	0	mg/kg																									
2,4,6-Trichlorophenol	1010	POS PARK	mg/kg	0	mg/kg																									
2-Nitroaniline	10.8	POS PARK	mg/kg	0	mg/kg																									
2-Methylnaphthalene	193	Commercial	mg/kg	0	mg/kg																									
2-Chloronaphthalene	370	Commercial	mg/kg	0	mg/kg																									
2,3,5,6-Tetrachlorophenol	1000	POS PARK	mg/kg	0	mg/kg																									

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	ARP16-MPT BH109	ARP16-MPT BH109	ARP16-MPT BH110	ARP16-MPT BH110	ARP16-MPT BH110	ARP16-MPT BH111	ARP16-MPT BH111	ARP16-MPT BH111	ARP16-MPT BH111	ARP16-MPT BH112	ARP16-MPT BH112	ARP16-MPT BH114	ARP16-MPT BH114	ARP16-MPT BH114	ARP16-MPT BH115	ARP16-MPT BH115	ARP16-MPT BH116	ARP16-MPT BH116	ARP16-MPT BH116	ARP16-MPT BH117	ARP16-MPT BH117	ARP16-MPT IP101	ARP16-MPT IP101	ARP16-MPT IP101
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
O-Xylene	6603.1	Commercial	mg/kg	0	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2-Methylphenol	46100	POS PARK	mg/kg	0	mg/kg																								
1,2-Dichlorobenzene	2020	Commercial	mg/kg	0	mg/kg																								
2-Chlorophenol	1010	POS PARK	mg/kg	0	mg/kg																								
1,2,4-Trimethylbenzene	39.4	Commercial	mg/kg	0	mg/kg																								
2,4,5-Trichlorophenol	1010	POS PARK	mg/kg	0	mg/kg																								
Isopropylbenzene	1300	Commercial	mg/kg	0	mg/kg																								
4-Isopropyltoluene	1300	Commercial	mg/kg	0	mg/kg																								
m,p xylenes	5923.3	Commercial	mg/kg	0	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium - Hexavalent	220	POS PARK	mg/kg	0	mg/kg																								
Cyanide Free	168	Commercial	mg/kg	0	mg/kg																								
Complex Cyanide	3460	POS PARK	mg/kg	0	mg/kg																								
4-Nitrophenol	7600000	POS PARK	ug/kg	0	ug/kg			<100			<100									<100				<100	<100				
Ethylbenzene	5705504.8	Commercial	ug/kg	0	ug/kg			<1			<1									<1				<1	<1				
Styrene	3170000	Commercial	ug/kg	0	ug/kg			<1			<1									<1				<1	<1				
n-Propylbenzene	3860000	Commercial	ug/kg	0	ug/kg			<1			<1									<1				<1	<1				
n-Butylbenzene	26597.9	Commercial	ug/kg	0	ug/kg			<1			<1									<1				<1	<1				
2,4-Dimethylphenol	9180000	POS PARK	ug/kg	0	ug/kg			<100			<100									<100				<100	<100				
4-Methylphenol	46000000	POS PARK	ug/kg	0	ug/kg			<100			<100									<100				<100	<100				
1,4-Dichlorobenzene	4220000	Commercial	ug/kg	0	ug/kg			<1			<1									<1				<1	<1				
1,2-Dichloroethane	671	Commercial	ug/kg	0	ug/kg			<2			<2									<2				<2	<2				
1,3,5-Trimethylbenzene	39400	Commercial	ug/kg	3	ug/kg			9.0			<1									<1				<1	<1				
Bromobenzene	91500	Commercial	ug/kg	0	ug/kg			<1			<1									<1				<1	<1				
Toluene VOC	56293712.79	Commercial	ug/kg	0	ug/kg			<1			<1									<1				<1	<1				
Chlorobenzene	55600	Commercial	ug/kg	0	ug/kg			<1			<1									<1				<1	<1				
Phenol SVOC	7600000	POS PARK	ug/kg	0	ug/kg			<100			<100									<100				<100	<100				
Bis(2-chloroethoxy)methane	956	Commercial	ug/kg	1	ug/kg			<100			<100									<100				<100	<100				
Bis(2-ethylhexyl)phthalate	16600000	POS PARK	ug/kg	0	ug/kg			<100			<100									<100				<100	<100				
n-Diethylphthalate	20000000	POS PARK	ug/kg	0	ug/kg			<100			405.0									<100				1030.0	152.0				
Hexachlorobenzene	28900	POS PARK	ug/kg	0	ug/kg			<100			<100									<100				<100	<100				
1,2,4-Trichlorobenzene	215000	Commercial	ug/kg	0	ug/kg			<3			<3									<3				<3	<3				
2,4-Dichlorophenol	977000	POS PARK	ug/kg	0	ug/kg			<100			<100									<100				<100	<100				
2,4-Dinitrotoluene	928000	POS PARK	ug/kg	0	ug/kg			<100			<100									<100				<100	<100				
Dibromochloromethane	1960	Commercial	ug/kg	0	ug/kg			<3			<3									<3				<3	<3				
Tetrachloroethene	18600	Commercial	ug/kg	0	ug/kg			<1			<1									<1				<1	<1				
Dimethyl phthalate	2630000	POS PARK	ug/kg	0	ug/kg			<100			<100									<100				<100	<100				
Dibenzofuran	10800	POS PARK	ug/kg	5	ug/kg			5040.0			<100									<100				<100	<100				
sec-Butylbenzene	26597.8811	Commercial	ug/kg	0	ug/kg			<1			<1									<1				<1	<1				
cis 1,2-Dichloroethene	13600	Commercial	ug/kg	0	ug/kg			<1			<1									<1				<1	<1				
trans 1,2-Dichloroethene	20700	Commercial	ug/kg	0	ug/kg			<1			<1									<1				<1	<1				
Perylene	10800000	POS PARK	ug/kg	0	ug/kg			4380.0			<100									<100				903.0	<100				
1,3-Dichlorobenzene	29900	Commercial	ug/kg	0	ug/kg			<1			<1									<1				<1	<1				
Carbon Tetrachloride	2870	Commercial	ug/kg	0	ug/kg			<1			<1									<1				<1	<1				
4-Chloro-3-methylphenol	46100000	POS PARK	ug/kg	0	ug/kg			<100			<100									<100				<100	<100				
2,6-Dinitrotoluene	468000	POS PARK	ug/kg	0	ug/kg			<100			<100									<100				<100	<100				
1,1,1,2-Tetrachloroethane	108000	Commercial	ug/kg	0	ug/kg			<1			<1									<1				<1	<1				
Chloroform	99100	Commercial	ug/kg	0	ug/kg			<1			<1									<1				<1	<1				
Hexachloroethane	20900000	Commercial	ug/kg	0	ug/kg			<100			<100									<100				<100	<100				
Benzene VOC	26597.9	Commercial	ug/kg	0	ug/kg			<1			<1									<1				<1	<1				
1,1,1-Trichloroethane	660000	Commercial	ug/kg	0	ug/kg			<1			<1									<1				<1	<1				
Barium	5770	POS PARK	mg/kg	0	mg/kg																								
Chloromethane	956000	Commercial	ug/kg	0	ug/kg			<10			<10									<10				<10	<10				
Chloroethane	904000000	Commercial	ug/kg	0	ug/kg			<1			<1									<1				<1	<1				

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	ARP16-MPT BH109	ARP16-MPT BH109	ARP16-MPT BH110	ARP16-MPT BH110	ARP16-MPT BH110	ARP16-MPT BH111	ARP16-MPT BH111	ARP16-MPT BH111	ARP16-MPT BH111	ARP16-MPT BH112	ARP16-MPT BH112	ARP16-MPT BH114	ARP16-MPT BH114	ARP16-MPT BH114	ARP16-MPT BH115	ARP16-MPT BH115	ARP16-MPT BH116	ARP16-MPT BH116	ARP16-MPT BH116	ARP16-MPT BH117	ARP16-MPT BH117	ARP16-MPT IP101	ARP16-MPT IP101	ARP16-MPT IP101
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Vinyl Chloride	59.4	Commercial	ug/kg	0	ug/kg			<1																					
Dichloromethane VOC	257000000	Commercial	ug/kg	0	ug/kg			<5																					
Carbon Disulphide	11000000	Commercial	ug/kg	0	ug/kg			<1																					
Bromoform	714000	Commercial	ug/kg	0	ug/kg			<1																					
Bromodichloromethane	1960	Commercial	ug/kg	0	ug/kg			<10																					
1,1-Dichloroethane	263000	Commercial	ug/kg	0	ug/kg			<1																					
1,1-Dichloroethene	24300	Commercial	ug/kg	0	ug/kg			<1																					
Isophorone	26597881.1	Commercial	ug/kg	0	ug/kg			<100																					
1,2-Dichloropropane	3130	Commercial	ug/kg	0	ug/kg			<1																					
1,1,2-Trichloroethane	89100	Commercial	ug/kg	0	ug/kg			<1																					
Trichloroethene	1230	Commercial	ug/kg	0	ug/kg			<1																					
1,1,2,2-Tetrachloroethane	274000000	Commercial	ug/kg	0	ug/kg			<1																					
Diethyl phthalate	89300000	POS PARK	ug/kg	0	ug/kg			<100																					
n-Dibutylphthalate	2630000	POS PARK	ug/kg	0	ug/kg			<100																					
Butylbenzyl phthalate SVOC	254000000	POS PARK	ug/kg	0	ug/kg			<100																					
Carbazole	10800	POS PARK	ug/kg	2	ug/kg			8930.0																					
1,2,3-Trichlorobenzene	102000	Commercial	ug/kg	0	ug/kg			<3																					
Hexachlorobutadiene	30700	Commercial	ug/kg	0	ug/kg			<1																					
Pentachlorophenol	113000	POS PARK	ug/kg	0	ug/kg			<100																					
2,4,6-Trichlorophenol	1010000	POS PARK	ug/kg	0	ug/kg			<100																					
2-Nitrophenol	7600000000	POS PARK	ug/kg	0	ug/kg			<100																					
2-Methylnaphthalene (SVOC) DEFAULT	193000	Commercial	ug/kg	2	ug/kg			1440.0																					
2-Chloronaphthalene	370000	Commercial	ug/kg	0	ug/kg			<100																					
o-Xylene	6603100.7	Commercial	ug/kg	0	ug/kg			<1																					
2-Methylphenol	46100000	POS PARK	ug/kg	0	ug/kg			<100																					
1,2-Dichlorobenzene	2020000	Commercial	ug/kg	0	ug/kg			<1																					
2-Chlorophenol	1010000	POS PARK	ug/kg	0	ug/kg			<100																					
1,2,4-Trimethylbenzene	39400	Commercial	ug/kg	5	ug/kg			3.0																					
2,4,5-Trichlorophenol	1010000	POS PARK	ug/kg	0	ug/kg			<100																					
Isopropylbenzene	1300000	Commercial	ug/kg	0	ug/kg			<1																					
Nitrobenzene	26597881.1	Commercial	ug/kg	0	ug/kg			<100																					
4-Isopropyltoluene	1300000	Commercial	ug/kg	0	ug/kg			<1																					
m & p Xylene	5923262.7	Commercial	ug/kg	0	ug/kg			<1																					
Aro >C8-C9	7220	POS PARK	mg/kg	0	mg/kg			<0.01																					
Aro >C9-C10	7220	POS PARK	mg/kg	0	mg/kg			<0.01																					
Tributyltin SUBCON I2	42400000	POS PARK	ug/kg	0	ug/kg																								
Atrazine SUBCON Alcontrol	379000000	POS Maintenance	ug/kg	0	ug/kg																								
Aldrin SUBCON Alcontrol	7800000	POS PARK	ug/kg	0	ug/kg																								
alpha-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	46500000	POS PARK	ug/kg	0	ug/kg																								
beta-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	13300000	POS PARK	ug/kg	0	ug/kg																								
Endosulphan II	1960000000	POS Maintenance	ug/kg	0	ug/kg																								
Dieldrin SUBCON Alcontrol	12900000	POS PARK	ug/kg	0	ug/kg																								
Dichlorvos	26000000	POS PARK	ug/kg	0	ug/kg																								
Endosulphan I	1950000000	POS Maintenance	ug/kg	0	ug/kg																								
Aro >C35-C44	7820	POS PARK	mg/kg	0	mg/kg			<0.1																					
Ali >C35-C44	455000	POS PARK	mg/kg	0	mg/kg			<0.1																					
Anthracene SVOC	149000000	POS PARK	ug/kg	0	ug/kg			7720.0																					
Pyrene SVOC	15100000	POS PARK	ug/kg	0	ug/kg			22600.0																					
Benzo(ghi)perylene SVOC	612000	POS Maintenance	ug/kg	0	ug/kg			11600.0																					
Indeno(1,2,3-cd)pyrene SVOC	44000	POS Maintenance	ug/kg	1	ug/kg			12500.0																					
Benzo(b)fluoranthene SVOC	13200	POS PARK	ug/kg	7	ug/kg			15100.0																					
Fluoranthene SVOC	6300000	POS PARK	ug/kg	0	ug/kg			24700.0																					

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	ARP16-MPT BH109	ARP16-MPT BH109	ARP16-MPT BH110	ARP16-MPT BH110	ARP16-MPT BH110	ARP16-MPT BH111	ARP16-MPT BH111	ARP16-MPT BH111	ARP16-MPT BH111	ARP16-MPT BH112	ARP16-MPT BH112	ARP16-MPT BH114	ARP16-MPT BH114	ARP16-MPT BH114	ARP16-MPT BH115	ARP16-MPT BH115	ARP16-MPT BH116	ARP16-MPT BH116	ARP16-MPT BH116	ARP16-MPT BH117	ARP16-MPT BH117	IP101	IP101	IP101
					Sample Top	Sample Ref	Sample Type	0.80	3.50	0.10	0.25	11.00	0.30	0.60	1.20	7.80	0.30	1.00	0.30	0.90	1.50	0.30	0.80	0.40	0.90	6.00	0.30	2.50	0.30
Benzo(k)fluoranthene SVOC	114000	POS Maintenance	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Acenaphthylene SVOC	28900000	POS PARK	ug/kg	0				6190.0																					
Chrysene SVOC	91000	POS Maintenance	ug/kg	1				122.0																					
Benzo(a)pyrene SVOC	10800	POS PARK	ug/kg	8				21200.0																					
Dibenzo(ah)anthracene SVOC	1150	POS PARK	ug/kg	10				11900.0																					
Benzo(a)anthracene SVOC	48800	POS PARK	ug/kg	2				2910.0																					
Acenaphthene SVOC	28900000	POS PARK	ug/kg	0				13600.0																					
Phenanthrene SVOC	6170000	POS PARK	ug/kg	0				8060.0																					
Fluorene SVOC	19600000	POS PARK	ug/kg	0				39300.0																					
Naphthalene SVOC	193000	Commercial	ug/kg	1				4320.0																					
Xylenols	9180	POS PARK	mg/kg	0				1640.0																					
Cresols	46100	POS PARK	mg/kg	0																									
Tributyltin	42400	POS PARK	mg/kg	0																									
Methyl tert-butyl ether (MTBE)	7480000	Commercial	ug/kg	0																									
Aromatics >C6-7	27000000	Commercial	ug/kg	0																									
Aromatics >C7-8	56293712.8	Commercial	ug/kg	0																									
Aromatics >C8-10	3460000	Commercial	ug/kg	0																									
Aromatics >C10-12	9240000	POS PARK	ug/kg	0																									
Aromatics >C12-16	10200000	POS PARK	ug/kg	0																									
Aromatics >C16-21	7630000	POS PARK	ug/kg	0																									
Aromatics >C21-35	7820000	POS PARK	ug/kg	1																									
Aromatics >C35-44	7820000	POS PARK	ug/kg	0																									
Aliphatics >C5-6	3190000	Commercial	ug/kg	0																									
Aliphatics >C6-8	7780000	Commercial	ug/kg	0																									
Aliphatics >C8-10	2000000	Commercial	ug/kg	1																									
Aliphatics >C10-12	9690000	Commercial	ug/kg	0																									
Aliphatics >C12-16	24700000	POS PARK	ug/kg	0																									
Aliphatics >C16-21	455000000	POS PARK	ug/kg	0																									
Aliphatics >C21-35	455000000	POS PARK	ug/kg	0																									
Aliphatics >C35-44	455000000	POS PARK	ug/kg	0																									
Trivalent Chromium	33000	POS PARK	mg/kg	0																									
Molybdenum	2890	POS PARK	mg/kg	0																									
4-Nitroaniline	10800	POS PARK	ug/kg	0																									
Azobenzene	10800	POS PARK	ug/kg	0																									
4-Chloroaniline	10800000	POS PARK	ug/kg	0																									
2-Nitroaniline	10800	POS PARK	ug/kg	0																									

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	AEC18-LF-BBH204	AEC18-LF-BBH207	AEC18-LF-BBH209	AEC18-LF-BBH210	AEC18-LF-BBH210	AEC18-LF-BBH210	AEC18-LF-BH201 (PFCP71)	AEC18-LF-BH201 (PFCP71)	AEC18-LF-BH202	AEC18-LF-BH202A	AEC18-LF-BH202A	AEC18-LF-BH202A	AEC18-LF-BH203	AEC18-LF-BH203	AEC18-LF-BH203	AEC18-LF-BH203	AEC18-LF-BH204	AEC18-LF-BH204	AEC18-LF-BH204	AEC18-LF-BH205A	AEC18-LF-BH205A	AEC18-LF-BH206	AEC18-LF-BH206
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Ethylbenzene	5705.5	Commercial	mg/kg	0	mg/kg																							
Toluene	56293.7	Commercial	mg/kg	0	mg/kg																							
Anthracene	149000	POS PARK	mg/kg	0	mg/kg																							
Pyrene	15100	POS PARK	mg/kg	0	mg/kg																							
Xylene	6603.1	Commercial	mg/kg	0	mg/kg																							
Benzo (g,h,i) perylene	612	POS Maintenance	mg/kg	0	mg/kg																							
Indeno(1,2,3-cd)pyrene	44	POS Maintenance	mg/kg	0	mg/kg																							
Benzo(b)fluoranthene	13.2	POS PARK	mg/kg	4	mg/kg																							
Fluoranthene	6300	POS PARK	mg/kg	0	mg/kg																							
Benzo(k)fluoranthene	114	POS Maintenance	mg/kg	0	mg/kg																							
Acenaphthylene	28900	POS PARK	mg/kg	0	mg/kg																							
Chrysene	91	POS Maintenance	mg/kg	0	mg/kg																							
Benzo(a)pyrene	10.8	POS PARK	mg/kg	4	mg/kg																							
Dibenz-a-h-anthracene	1.15	POS PARK	mg/kg	5	mg/kg																							
Benzo(a)anthracene	48.8	POS PARK	mg/kg	0	mg/kg																							
Cyanide	24	POS PARK	mg/kg	5	mg/kg	<1	<1	<1	<1	<1	<1	2.1	<1	<1	2.9	<1	<1	1.2	<1	<0.5	1.7	<1	<0.5	<1	<1	<1	<1	3.9
Benzene	26.60	Commercial	mg/kg	0	mg/kg																							
Lead	1300	POS PARK	mg/kg	13	mg/kg	30.7	22.3	33.6	64.9	71.6	17.9	187.0	10.3	39.4	74.9	19.0	96.5	109.0	77.6	1490.0	310.0	23.0	<0.002	37.6	108.0	249.0	32.7	110.0
Mercury	244	POS PARK	mg/kg	0	mg/kg	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	0.4	<0.14	<0.14	<0.14	<0.14	<0.0001	<1.4	<0.14	<0.0001	<0.14	<0.14	<0.14	<0.14	<0.14
Nickel	804	POS PARK	mg/kg	8	mg/kg	53.9	44.3	19.4	17.6	25.7	14.5	12.0	8.4	44.7	6.9	24.3	26.6	21.7	31.4	0.0	511.0	21.1	0.1	57.4	22.2	28.8	13.1	13.9
Antimony	3290	POS PARK	mg/kg	0	mg/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	6.4	<0.6	<0.6	2.1	<0.6	2.0	0.7	<0.6	<6	<6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	2.1
Arsenic	168	POS PARK	mg/kg	0	mg/kg	16.2	16.1	12.1	16.1	14.4	12.9	6.9	3.0	17.3	2.8	7.2	16.3	14.2	17.0	0.0	21.6	14.4	0.0	14.3	21.5	19.7	15.6	11.2
Beryllium	11.7	Commercial	mg/kg	1	mg/kg	3.0	2.1	0.9	0.9	1.1	0.5	0.2	0.4	2.0	0.3	1.4	1.2	1.4	1.2	<0.001	<0.1	1.1	<0.001	1.7	0.8	1.3	0.5	0.5
Boron	46200	POS PARK	mg/kg	0	mg/kg	<1	<1	<1	2.3	2.3	<1	18.9	<1	<1	1.1	3.7	1.3	4.3	2.3	1.1	2.3	<1	2.1	2.9	1.4	4.0	1.3	2.6
Cadmium	190	Commercial	mg/kg	0	mg/kg	0.4	0.2	0.1	0.4	0.4	<0.02	0.7	0.1	<0.02	0.9	0.2	0.6	0.4	0.1	<0.0008	0.8	<0.02	<0.0008	0.4	0.1	0.9	0.0	0.4
Chromium	8570	Commercial	mg/kg	1	mg/kg	26.8	34.4	19.2	23.0	18.3	10.4	8.6	5.2	25.5	21.4	17.2	13.9	10.4	15.9	<9	332.0	34.7	0.1	21.8	11.6	24.7	17.8	9.3
Copper	44400	POS PARK	mg/kg	2	mg/kg	32.6	31.3	37.8	23.3	34.7	8.5	38.0	10.1	38.5	63.6	14.3	48.3	33.4	37.2	<0.003	84.4	17.7	0.0	37.4	36.8	301.0	16.3	808.0
Vanadium	2820	POS Maintenance	mg/kg	0	mg/kg	77.1	85.7	52.8	49.4	51.5	30.5	14.0	10.9	72.4	9.2	32.9	39.4	22.7	41.6	<0.01	18.3	61.8	<0.01	49.8	27.9	36.4	59.4	13.1
Zinc	173000	POS PARK	mg/kg	0	mg/kg	107.0	88.0	107.0	109.0	103.0	59.3	216.0	34.7	124.0	284.0	103.0	238.0	377.0	141.0	240.0	344.0	58.2	0.0	117.0	219.0	741.0	65.6	263.0
Selenium	1850	POS PARK	mg/kg	0	mg/kg	1.4	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.01	<10	<1	<0.01	<1	<1	<1	<1	<1
Acenaphthene	28900	POS PARK	mg/kg	0	mg/kg																							
Phenanthrene	6170	POS PARK	mg/kg	0	mg/kg																							
Fluorene	19600	POS PARK	mg/kg	0	mg/kg																							
Napthalene	193	Commercial	mg/kg	0	mg/kg																							
Phenol (Monohydric)	7600	POS Maintenance	mg/kg	0	mg/kg	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	0.4	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	0.4	<0.035	<0.035	0.1	<0.035	<0.035	
Aromatics >C7-8	56293.7	Commercial	mg/kg	0	mg/kg																							
Aromatics >C8-10	3460	Commercial	mg/kg	0	mg/kg																							
Aromatics >C10-12	9240	POS PARK	mg/kg	0	mg/kg																							
Aromatics >C12-16	10200	POS PARK	mg/kg	0	mg/kg																							
Aromatics >C16-21	7630	POS PARK	mg/kg	0	mg/kg																							
Aromatics >C21-35	7820	POS PARK	mg/kg	0	mg/kg																							
Aliphatics >C5-6	3190	Commercial	mg/kg	0	mg/kg																							
Aliphatics >C6-8	7780	Commercial	mg/kg	0	mg/kg																							
Aliphatics >C8-10	2000	Commercial	mg/kg	0	mg/kg																							
Aliphatics >C10-12	9690	Commercial	mg/kg	0	mg/kg																							
Aliphatics >C12-16	24700	POS PARK	mg/kg	0	mg/kg																							
Aliphatics >C16-21	455000	POS PARK	mg/kg	0	mg/kg																							
Aliphatics >C21-35	455000	POS PARK	mg/kg	0	mg/kg																							
Aromatics >C5-7	27	Commercial	mg/kg	0	mg/kg																							
4-Nitroaniline	10.8	POS PARK	mg/kg	0	mg/kg																							
4-Nitrophenol	7600	POS PARK	mg/kg	0	mg/kg																							
Styrene	3170	Commercial	mg/kg	0	mg/kg																							
Azobenzene	10.8	POS PARK	mg/kg	0	mg/kg																							

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	AEC18-LF-BBH204	AEC18-LF-BBH207	AEC18-LF-BBH209	AEC18-LF-BBH210	AEC18-LF-BBH210	AEC18-LF-BBH210	AEC18-LF-BH201 (PFCP71)	AEC18-LF-BH201 (PFCP71)	AEC18-LF-BH202	AEC18-LF-BH202A	AEC18-LF-BH202A	AEC18-LF-BH202A	AEC18-LF-BH203	AEC18-LF-BH203	AEC18-LF-BH203	AEC18-LF-BH203	AEC18-LF-BH203	AEC18-LF-BH204	AEC18-LF-BH204	AEC18-LF-BH204	AEC18-LF-BH205A	AEC18-LF-BH205A	AEC18-LF-BH206	AEC18-LF-BH206	
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
n-propylbenzene	3860	Commercial	mg/kg	0	mg/kg																									
n-Butylbenzene	26.598	Commercial	mg/kg	0	mg/kg																									
2,4-Dimethylphenol	9180	POS PARK	mg/kg	0	mg/kg																									
3/4 Methylphenol	46000	POS PARK	mg/kg	0	mg/kg																									
1,4-Dichlorobenzene	4220	Commercial	mg/kg	0	mg/kg																									
1,2-Dichloroethane	0.671	Commercial	mg/kg	0	mg/kg																									
1,3,5-Trimethylbenzene	39.4	Commercial	mg/kg	0	mg/kg																									
Bromobenzene	91.5	Commercial	mg/kg	0	mg/kg																									
Chlorobenzene	55.6	Commercial	mg/kg	0	mg/kg																									
Phenol	7600	POS PARK	mg/kg	0	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Bis(2-chloroethoxy)methane	0.956	Commercial	mg/kg	0	mg/kg																									
Bis(2-ethylhexyl)phthalate	16600	POS PARK	mg/kg	0	mg/kg																									
Di-N-Octyl Phthalate	20000	POS PARK	mg/kg	0	mg/kg																									
Hexachlorobenzene (HCB)	28.9	POS PARK	mg/kg	0	mg/kg																									
1,2,4-Trichlorobenzene	215	Commercial	mg/kg	0	mg/kg																									
2,4-Dichlorophenol	977	POS PARK	mg/kg	0	mg/kg																									
2,4-Dinitrotoluene	928	POS PARK	mg/kg	0	mg/kg																									
Dibromochloromethane	1.96	Commercial	mg/kg	0	mg/kg																									
Tetrachloroethene	18.6	Commercial	mg/kg	0	mg/kg																									
Dimethylphthalate	2630	POS PARK	mg/kg	0	mg/kg																									
Dibenzofuran	10.8	POS PARK	mg/kg	0	mg/kg																									
Sec-Butylbenzene	26.6	Commercial	mg/kg	0	mg/kg																									
cis-1,2-Dichloroethene	13.6	Commercial	mg/kg	0	mg/kg																									
trans-1,2-Dichloroethene	20.7	Commercial	mg/kg	0	mg/kg																									
Methyl tert-butyl ether (MTBE)	7480	Commercial	mg/kg	0	mg/kg																									
1,3-Dichlorobenzene	29.9	Commercial	mg/kg	0	mg/kg																									
Tetrachloromethane (Carbon Tetra Chloride)	2.87	Commercial	mg/kg	0	mg/kg																									
2,3,4,6-Tetrachlorophenol	1000	POS PARK	mg/kg	0	mg/kg																									
4-Chloro-3-Methylphenol	46100	POS PARK	mg/kg	0	mg/kg																									
2,6-Dinitrotoluene	468	POS PARK	mg/kg	0	mg/kg																									
1,1,1,2-Tetrachloroethane	108	Commercial	mg/kg	0	mg/kg																									
Chloroform	99.1	Commercial	mg/kg	0	mg/kg																									
1,1,1-Trichloroethane	660	Commercial	mg/kg	0	mg/kg																									
Chloroethene	0.0594	Commercial	mg/kg	0	mg/kg																									
Tribromomethane	714	Commercial	mg/kg	0	mg/kg																									
Bromodichloromethane	1.96	Commercial	mg/kg	0	mg/kg																									
1,1-Dichloroethane	263	Commercial	mg/kg	0	mg/kg																									
1,1-Dichloroethene	24.3	Commercial	mg/kg	0	mg/kg																									
1,2-Dichloropropane	3.13	Commercial	mg/kg	0	mg/kg																									
1,1,2-Trichloroethane	89.1	Commercial	mg/kg	0	mg/kg																									
Trichloroethene	1.23	Commercial	mg/kg	0	mg/kg																									
Diethylphthalate	89300	POS PARK	mg/kg	0	mg/kg																									
Di-N-Butyl Phthalate	2630	POS PARK	mg/kg	0	mg/kg																									
Butylbenzylphthalate	254000	POS PARK	mg/kg	0	mg/kg																									
Carbazole	10.8	POS PARK	mg/kg	0	mg/kg																									
1,2,3 Trichlorobenzene	102	Commercial	mg/kg	0	mg/kg																									
Hexachlorobutadiene (HCBD)	30.7	Commercial	mg/kg	0	mg/kg																									
Pentachlorophenol (PCP)	113	POS PARK	mg/kg	0	mg/kg																									
2,4,6-Trichlorophenol	1010	POS PARK	mg/kg	0	mg/kg																									
2-Nitroaniline	10.8	POS PARK	mg/kg	0	mg/kg																									
2-Methylnaphthalene	193	Commercial	mg/kg	0	mg/kg																									
2-Chloronaphthalene	370	Commercial	mg/kg	0	mg/kg																									
2,3,5,6-Tetrachlorophenol	1000	POS PARK	mg/kg	0	mg/kg																									

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	AEC18-LF-BBH204	AEC18-LF-BBH207	AEC18-LF-BBH209	AEC18-LF-BBH210	AEC18-LF-BBH210	AEC18-LF-BBH210	AEC18-LF-BH201 (PFCP71)	AEC18-LF-BH201 (PFCP71)	AEC18-LF-BH202	AEC18-LF-BH202A	AEC18-LF-BH202A	AEC18-LF-BH202A	AEC18-LF-BH203	AEC18-LF-BH203	AEC18-LF-BH203	AEC18-LF-BH203	AEC18-LF-BH204	AEC18-LF-BH204	AEC18-LF-BH204	AEC18-LF-BH205A	AEC18-LF-BH205A	AEC18-LF-BH206	AEC18-LF-BH206	
					Sample Top	Sample Ref	Sample Type	0.50	0.30	0.40	0.70	2.70	4.00	0.90	5.60	0.50	0.40	5.00	8.30	0.50	11.10	2.50	5.30	8.30	0.30	11.00	5.00	0.30	3.50
O-Xylene	6603.1	Commercial	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
2-Methylphenol	46100	POS PARK	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
1,2-Dichlorobenzene	2020	Commercial	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
2-Chlorophenol	1010	POS PARK	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
1,2,4-Trimethylbenzene	39.4	Commercial	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
2,4,5-Trichlorophenol	1010	POS PARK	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Isopropylbenzene	1300	Commercial	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
4-Isopropyltoluene	1300	Commercial	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
m,p xylenes	5923.3	Commercial	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Chromium - Hexavalent	220	POS PARK	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Cyanide Free	168	Commercial	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Complex Cyanide	3460	POS PARK	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
4-Nitrophenol	7600000	POS PARK	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Ethylbenzene	5705504.8	Commercial	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Styrene	3170000	Commercial	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
n-Propylbenzene	3860000	Commercial	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
n-Butylbenzene	26597.9	Commercial	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
2,4-Dimethylphenol	9180000	POS PARK	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
4-Methylphenol	46000000	POS PARK	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
1,4-Dichlorobenzene	4220000	Commercial	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
1,2-Dichloroethane	671	Commercial	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
1,3,5-Trimethylbenzene	39400	Commercial	ug/kg	3	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Bromobenzene	91500	Commercial	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Toluene VOC	56293712.79	Commercial	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Chlorobenzene	55600	Commercial	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Phenol SVOC	7600000	POS PARK	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Bis(2-chloroethoxy)methane	956	Commercial	ug/kg	1	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Bis(2-ethylhexyl)phthalate	16600000	POS PARK	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
n-Diethylphthalate	20000000	POS PARK	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Hexachlorobenzene	28900	POS PARK	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
1,2,4-Trichlorobenzene	215000	Commercial	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
2,4-Dichlorophenol	977000	POS PARK	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
2,4-Dinitrotoluene	928000	POS PARK	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Dibromochloromethane	1960	Commercial	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Tetrachloroethene	18600	Commercial	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Dimethyl phthalate	2630000	POS PARK	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Dibenzofuran	10800	POS PARK	ug/kg	5	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
sec-Butylbenzene	26597.8811	Commercial	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
cis 1,2-Dichloroethene	13600	Commercial	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
trans 1,2-Dichloroethene	20700	Commercial	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Perylene	10800000	POS PARK	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
1,3-Dichlorobenzene	29900	Commercial	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Carbon Tetrachloride	2870	Commercial	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
4-Chloro-3-methylphenol	46100000	POS PARK	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
2,6-Dinitrotoluene	468000	POS PARK	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
1,1,1,2-Tetrachloroethane	108000	Commercial	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Chloroform	99100	Commercial	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Hexachloroethane	20900000	Commercial	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Benzene VOC	26597.9	Commercial	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
1,1,1-Trichloroethane	660000	Commercial	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Barium	5770	POS PARK	mg/kg	0	ES	ES	ES	ES</																					

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Sample Type	Hole Ref	AEC18-LF-BBH204	AEC18-LF-BBH207	AEC18-LF-BBH209	AEC18-LF-BBH210	AEC18-LF-BBH210	AEC18-LF-BBH210	AEC18-LF-BH201 (PFCP71)	AEC18-LF-BH201 (PFCP71)	AEC18-LF-BH202	AEC18-LF-BH202A	AEC18-LF-BH202A	AEC18-LF-BH202A	AEC18-LF-BH203	AEC18-LF-BH203	AEC18-LF-BH203	AEC18-LF-BH203	AEC18-LF-BH203	AEC18-LF-BH204	AEC18-LF-BH204	AEC18-LF-BH204	AEC18-LF-BH205A	AEC18-LF-BH205A	AEC18-LF-BH206	AEC18-LF-BH206
						Sample Top	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref
Benzo(k)fluoranthene SVOC	114000	POS Maintenance	ug/kg	0	ug/kg			250.0	<14			331.0		229.0			278.0	39.5		1350.0		439.0	269.0		633.0			<500	<100	<140
Acenaphthylene SVOC	28900000	POS PARK	ug/kg	0	ug/kg			<60	<12			<60		<60			96.7	<12		236.0		66.8	<100		<200			<500	<100	<120
Chrysene SVOC	91000	POS Maintenance	ug/kg	1	ug/kg			415.0	<10			639.0		569.0			437.0	74.4		2380.0		1040.0	346.0		1070.0			<500	123.0	491.0
Benzo(a)pyrene SVOC	10800	POS PARK	ug/kg	8	ug/kg			506.0	<15			619.0		371.0			602.0	68.2		2830.0		976.0	320.0		841.0			<500	<100	<150
Dibenzo(ah)anthracene SVOC	1150	POS PARK	ug/kg	10	ug/kg			<115	<23			<115		<115			125.0	<23		383.0		144.0	<100		<200			<500	<100	1100.0
Benzo(a)anthracene SVOC	48800	POS PARK	ug/kg	2	ug/kg			393.0	<14			590.0		449.0			443.0	73.7		2530.0		1360.0	384.0		1890.0			<500	135.0	<140
Acenaphthene SVOC	28900000	POS PARK	ug/kg	0	ug/kg			49.4	<8			102.0		311.0			13.6	20.2		32.1		1630.0	128.0		<200			<500	<100	<500
Phenanthrene SVOC	6170000	POS PARK	ug/kg	0	ug/kg			594.0	<15			936.0		1620.0			269.0	85.5		1850.0		3860.0	614.0		7460.0			<500	<100	718.0
Fluorene SVOC	19600000	POS PARK	ug/kg	0	ug/kg			<50	<10			112.0		425.0			15.1	15.5		153.0		1400.0	<100		1720.0			<500	<100	<500
Naphthalene SVOC	193000	Commercial	ug/kg	1	ug/kg			<45	<9			<45		608.0			37.8	<9		41.5		103.0	<100		365.0			<500	<100	<500
Xylenols	9180	POS PARK	mg/kg	0	mg/kg			<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	0.4	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	0.3	<0.015	<0.015	0.1	<0.015	
Cresols	46100	POS PARK	mg/kg	0	mg/kg			<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.1	0.0	<0.01	<0.01	<0.01	
Tributyltin	42400	POS PARK	mg/kg	0	mg/kg																									
Methyl tert-butyl ether (MTBE)	7480000	Commercial	ug/kg	0	ug/kg																									
Aromatics >C6-7	27000000	Commercial	ug/kg	0	ug/kg																									
Aromatics >C7-8	56293712.8	Commercial	ug/kg	0	ug/kg																									
Aromatics >C8-10	3460000	Commercial	ug/kg	0	ug/kg																									
Aromatics >C10-12	9240000	POS PARK	ug/kg	0	ug/kg																									
Aromatics >C12-16	10200000	POS PARK	ug/kg	0	ug/kg																									
Aromatics >C16-21	7630000	POS PARK	ug/kg	0	ug/kg																									
Aromatics >C21-35	7820000	POS PARK	ug/kg	1	ug/kg																									
Aromatics >C35-44	7820000	POS PARK	ug/kg	0	ug/kg																									
Aliphatics >C5-6	3190000	Commercial	ug/kg	0	ug/kg																									
Aliphatics >C6-8	7780000	Commercial	ug/kg	0	ug/kg																									
Aliphatics >C8-10	2000000	Commercial	ug/kg	1	ug/kg																									
Aliphatics >C10-12	9690000	Commercial	ug/kg	0	ug/kg																									
Aliphatics >C12-16	24700000	POS PARK	ug/kg	0	ug/kg																									
Aliphatics >C16-21	45500000	POS PARK	ug/kg	0	ug/kg																									
Aliphatics >C21-35	45500000	POS PARK	ug/kg	0	ug/kg																									
Aliphatics >C35-44	45500000	POS PARK	ug/kg	0	ug/kg																									
Trivalent Chromium	33000	POS PARK	mg/kg	0	mg/kg																									
Molybdenum	2890	POS PARK	mg/kg	0	mg/kg																									
4-Nitroaniline	10800	POS PARK	ug/kg	0	ug/kg																									
Azobenzene	10800	POS PARK	ug/kg	0	ug/kg																									
4-Chloroaniline	10800000	POS PARK	ug/kg	0	ug/kg																									
2-Nitroaniline	10800	POS PARK	ug/kg	0	ug/kg																									

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	AEC18-LF-BH206	AEC18-LF-BH207A	AEC18-LF-BH207A	AEC18-LF-BH207A	AEC18-LF-BH207A	AEC18-LF-BH208	AEC18-LF-BH208	AEC18-LF-BH208	AEC18-LF-BH208	AEC18-LF-BH208	AEC18-LF-BH209 (PFCP73)	AEC18-LF-BH209 (PFCP73)	AEC18-LF-BH209 (PFCP73)	AEC18-LF-BH209 (PFCP73)	AEC18-LF-BH210	AEC18-LF-BH210	AEC18-LF-BH210	AEC18-LF-BH210	AEC18-LF-BH212	AEC18-LF-BH212	AEC18-LF-BH212	AEC18-LF-BH212	AEC18-LF-BH212	AEC18-LF-BH212A	AEC18-LF-BH213
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Ethylbenzene	5705.5	Commercial	mg/kg	0	mg/kg																									
Toluene	56293.7	Commercial	mg/kg	0	mg/kg																									
Anthracene	149000	POS PARK	mg/kg	0	mg/kg																									
Pyrene	15100	POS PARK	mg/kg	0	mg/kg																									
Xylene	6603.1	Commercial	mg/kg	0	mg/kg																									
Benzo (g,h,i) perylene	612	POS Maintenance	mg/kg	0	mg/kg																									
Indeno(1,2,3-cd)pyrene	44	POS Maintenance	mg/kg	0	mg/kg																									
Benzo(b)fluoranthene	13.2	POS PARK	mg/kg	4	mg/kg																									
Fluoranthene	6300	POS PARK	mg/kg	0	mg/kg																									
Benzo(k)fluoranthene	114	POS Maintenance	mg/kg	0	mg/kg																									
Acenaphthylene	28900	POS PARK	mg/kg	0	mg/kg																									
Chrysene	91	POS Maintenance	mg/kg	0	mg/kg																									
Benzo(a)pyrene	10.8	POS PARK	mg/kg	4	mg/kg																									
Dibenz-a-h-anthracene	1.15	POS PARK	mg/kg	5	mg/kg																									
Benzo(a)anthracene	48.8	POS PARK	mg/kg	0	mg/kg																									
Cyanide	24	POS PARK	mg/kg	5	mg/kg	<1	<1	<1	9.3	5.1	<1	<1	<1	<1	<1	<1	2.0	5.3	<1	<1	<0.5	<1	1.7		<1	3.2	<1	<1	2.8	
Benzene	26.60	Commercial	mg/kg	0	mg/kg																									
Lead	1300	POS PARK	mg/kg	13	mg/kg	139.0	55.5	93.4	648.0	80.8	31.4	30.2	133.0	167.0	57.4	122.0	386.0	429.0	145.0	35.3	1250.0	289.0	35.5		54.4	107.0	49.5	169.0	186.0	
Mercury	244	POS PARK	mg/kg	0	mg/kg	<0.14	<0.14	<0.14	2.2	0.3	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.0001	<0.14	<0.14	<0.0001	<0.14	<0.14			<0.14	<0.14	0.2	<0.14	<0.14	
Nickel	804	POS PARK	mg/kg	8	mg/kg	26.8	18.1	37.1	83.3	27.7	40.0	15.4	14.8	19.0	33.8	18.5	35.8	2310.0	373.0	22.1	0.1	75.2	18.5		11.4	13.3	22.9	21.7	48.7	
Antimony	3290	POS PARK	mg/kg	0	mg/kg	2.0	<0.6	2.1	10.2	0.7	<0.6	<0.6	2.7	3.5	<0.6	5.9	8.2	1.5	<0.6	<0.6	<6	16.1	1.1		<0.6	2.2	2.7	<0.6	3.4	
Arsenic	168	POS PARK	mg/kg	0	mg/kg	12.6	14.0	15.5	72.1	13.5	15.1	13.1	11.5	11.1	16.6	7.9	16.9	0.5	9.0	7.5	0.0	52.0	3.4		6.4	9.8	7.1	16.1	26.1	
Beryllium	11.7	Commercial	mg/kg	1	mg/kg	2.5	2.5	1.4	8.1	0.6	2.1	0.9	0.7	0.8	1.5	0.9	2.4	<0.001	3.6	1.1	<0.001	4.8	0.3		0.7	0.6	0.1	1.3	2.7	
Boron	46200	POS PARK	mg/kg	0	mg/kg	3.1	2.5	2.3	20.6	2.8	2.6	4.7	1.1	4.1	<1	15.7	4.8	3.5	1.2	1.9	5.1	20.2	<1		3.0	4.5	12.1	20.0	8.0	
Cadmium	190	Commercial	mg/kg	0	mg/kg	0.6	0.2	0.0	<0.02	2.1	<0.02	0.1	0.5	0.4	0.2	0.5	0.9	0.0	3.1	0.4	<0.0008	1.1	0.5		0.1	0.5	1.1	<0.02	1.1	
Chromium	8570	Commercial	mg/kg	1	mg/kg	39.1	17.3	38.4	19.4	35.4	33.8	19.0	11.3	36.9	16.4	15.6	19.3	0.1	26.7	12.2	0.1	4.9	20.8		10.2	16.1	43.5	29.0	71.5	
Copper	44400	POS PARK	mg/kg	2	mg/kg	60.9	67.8	60.8	153.0	389.0	44.0	44.8	28.2	161.0	47.4	69.7	157.0	1870.0	29.5	39.6	0.0	175.0	48.1		17.1	48.9	238.0	14.5	335.0	
Vanadium	2820	POS Maintenance	mg/kg	0	mg/kg	48.9	39.8	32.2	57.3	23.5	89.7	36.8	26.3	33.0	43.5	20.9	40.0	0.3	82.9	26.8	<0.01	39.5	7.7		16.7	12.7	8.8	62.7	54.4	
Zinc	173000	POS PARK	mg/kg	0	mg/kg	205.0	116.0	296.0	524.0	761.0	157.0	98.6	183.0	549.0	112.0	270.0	393.0	930.0	88.6	75.1	0.3	650.0	167.0		60.0	126.0	1190.0	71.1	332.0	
Selenium	1850	POS PARK	mg/kg	0	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.01	1.7	<1	<0.01	1.3	<1		<1	<1	<1	<1	<1	
Acenaphthene	28900	POS PARK	mg/kg	0	mg/kg																									
Phenanthrene	6170	POS PARK	mg/kg	0	mg/kg																									
Fluorene	19600	POS PARK	mg/kg	0	mg/kg																									
Naphthalene	193	Commercial	mg/kg	0	mg/kg																									
Phenol (Monohydric)	7600	POS Maintenance	mg/kg	0	mg/kg	0.1	<0.035	0.1	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	0.1	<0.035	<0.035	<0.035	0.1	0.1	<0.035	<0.035	<0.035	<0.035		<0.035	<0.035		<0.035	0.1
Aromatics >C7-8	56293.7	Commercial	mg/kg	0	mg/kg																									
Aromatics >C8-10	3460	Commercial	mg/kg	0	mg/kg																									
Aromatics >C10-12	9240	POS PARK	mg/kg	0	mg/kg																									
Aromatics >C12-16	10200	POS PARK	mg/kg	0	mg/kg																									
Aromatics >C16-21	7630	POS PARK	mg/kg	0	mg/kg																									
Aromatics >C21-35	7820	POS PARK	mg/kg	0	mg/kg																									
Aliphatics >C5-6	3190	Commercial	mg/kg	0	mg/kg																									
Aliphatics >C6-8	7780	Commercial	mg/kg	0	mg/kg																									
Aliphatics >C8-10	2000	Commercial	mg/kg	0	mg/kg																									
Aliphatics >C10-12	9690	Commercial	mg/kg	0	mg/kg																									
Aliphatics >C12-16	24700	POS PARK	mg/kg	0	mg/kg																									
Aliphatics >C16-21	455000	POS PARK	mg/kg	0	mg/kg																									
Aliphatics >C21-35	455000	POS PARK	mg/kg	0	mg/kg																									
Aromatics >C5-7	27	Commercial	mg/kg	0	mg/kg																									
4-Nitroaniline	10.8	POS PARK	mg/kg	0	mg/kg																									
4-Nitrophenol	7600	POS PARK	mg/kg	0	mg/kg																									
Styrene	3170	Commercial	mg/kg	0	mg/kg																									
Azobenzene	10.8	POS PARK	mg/kg	0	mg/kg																									

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	AEC18-LF-BH206	AEC18-LF-BH207A	AEC18-LF-BH207A	AEC18-LF-BH207A	AEC18-LF-BH207A	AEC18-LF-BH208	AEC18-LF-BH208	AEC18-LF-BH208	AEC18-LF-BH208	AEC18-LF-BH208	AEC18-LF-BH209 (PFCP73)	AEC18-LF-BH209 (PFCP73)	AEC18-LF-BH209 (PFCP73)	AEC18-LF-BH210	AEC18-LF-BH210	AEC18-LF-BH210	AEC18-LF-BH210	AEC18-LF-BH212	AEC18-LF-BH212	AEC18-LF-BH212	AEC18-LF-BH212	AEC18-LF-BH212	AEC18-LF-BH212A	AEC18-LF-BH213
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
n-propylbenzene	3860	Commercial	mg/kg	0	mg/kg																								
n-Butylbenzene	26.598	Commercial	mg/kg	0	mg/kg																								
2,4-Dimethylphenol	9180	POS PARK	mg/kg	0	mg/kg																								
3/4 Methylphenol	46000	POS PARK	mg/kg	0	mg/kg																								
1,4-Dichlorobenzene	4220	Commercial	mg/kg	0	mg/kg																								
1,2-Dichloroethane	0.671	Commercial	mg/kg	0	mg/kg																								
1,3,5-Trimethylbenzene	39.4	Commercial	mg/kg	0	mg/kg																								
Bromobenzene	91.5	Commercial	mg/kg	0	mg/kg																								
Chlorobenzene	55.6	Commercial	mg/kg	0	mg/kg																								
Phenol	7600	POS PARK	mg/kg	0	mg/kg	0.0	<0.01	0.0	<0.01	0.0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.0
Bis(2-chloroethoxy)methane	0.956	Commercial	mg/kg	0	mg/kg																								
Bis(2-ethylhexyl)phthalate	16600	POS PARK	mg/kg	0	mg/kg																								
Di-N-Octyl Phthalate	20000	POS PARK	mg/kg	0	mg/kg																								
Hexachlorobenzene (HCB)	28.9	POS PARK	mg/kg	0	mg/kg																								
1,2,4-Trichlorobenzene	215	Commercial	mg/kg	0	mg/kg																								
2,4-Dichlorophenol	977	POS PARK	mg/kg	0	mg/kg																								
2,4-Dinitrotoluene	928	POS PARK	mg/kg	0	mg/kg																								
Dibromochloromethane	1.96	Commercial	mg/kg	0	mg/kg																								
Tetrachloroethene	18.6	Commercial	mg/kg	0	mg/kg																								
Dimethylphthalate	2630	POS PARK	mg/kg	0	mg/kg																								
Dibenzofuran	10.8	POS PARK	mg/kg	0	mg/kg																								
Sec-Butylbenzene	26.6	Commercial	mg/kg	0	mg/kg																								
cis-1,2-Dichloroethene	13.6	Commercial	mg/kg	0	mg/kg																								
trans-1,2-Dichloroethene	20.7	Commercial	mg/kg	0	mg/kg																								
Methyl tert-butyl ether (MTBE)	7480	Commercial	mg/kg	0	mg/kg																								
1,3-Dichlorobenzene	29.9	Commercial	mg/kg	0	mg/kg																								
Tetrachloromethane (Carbon Tetra Chloride)	2.87	Commercial	mg/kg	0	mg/kg																								
2,3,4,6-Tetrachlorophenol	1000	POS PARK	mg/kg	0	mg/kg																								
4-Chloro-3-Methylphenol	46100	POS PARK	mg/kg	0	mg/kg																								
2,6-Dinitrotoluene	468	POS PARK	mg/kg	0	mg/kg																								
1,1,1,2-Tetrachloroethane	108	Commercial	mg/kg	0	mg/kg																								
Chloroform	99.1	Commercial	mg/kg	0	mg/kg																								
1,1,1-Trichloroethane	660	Commercial	mg/kg	0	mg/kg																								
Chloroethene	0.0594	Commercial	mg/kg	0	mg/kg																								
Tribromomethane	714	Commercial	mg/kg	0	mg/kg																								
Bromodichloromethane	1.96	Commercial	mg/kg	0	mg/kg																								
1,1-Dichloroethane	263	Commercial	mg/kg	0	mg/kg																								
1,1-Dichloroethene	24.3	Commercial	mg/kg	0	mg/kg																								
1,2-Dichloropropane	3.13	Commercial	mg/kg	0	mg/kg																								
1,1,2-Trichloroethane	89.1	Commercial	mg/kg	0	mg/kg																								
Trichloroethene	1.23	Commercial	mg/kg	0	mg/kg																								
Diethylphthalate	89300	POS PARK	mg/kg	0	mg/kg																								
Di-N-Butyl Phthalate	2630	POS PARK	mg/kg	0	mg/kg																								
Butylbenzylphthalate	254000	POS PARK	mg/kg	0	mg/kg																								
Carbazole	10.8	POS PARK	mg/kg	0	mg/kg																								
1,2,3 Trichlorobenzene	102	Commercial	mg/kg	0	mg/kg																								
Hexachlorobutadiene (HCBD)	30.7	Commercial	mg/kg	0	mg/kg																								
Pentachlorophenol (PCP)	113	POS PARK	mg/kg	0	mg/kg																								
2,4,6-Trichlorophenol	1010	POS PARK	mg/kg	0	mg/kg																								
2-Nitroaniline	10.8	POS PARK	mg/kg	0	mg/kg																								
2-Methylnaphthalene	193	Commercial	mg/kg	0	mg/kg																								
2-Chloronaphthalene	370	Commercial	mg/kg	0	mg/kg																								
2,3,5,6-Tetrachlorophenol	1000	POS PARK	mg/kg	0	mg/kg																								

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	AEC18-LF-BH206	AEC18-LF-BH207A	AEC18-LF-BH207A	AEC18-LF-BH207A	AEC18-LF-BH207A	AEC18-LF-BH208	AEC18-LF-BH208	AEC18-LF-BH208	AEC18-LF-BH208	AEC18-LF-BH208	AEC18-LF-BH209 (PFCP73)	AEC18-LF-BH209 (PFCP73)	AEC18-LF-BH209 (PFCP73)	AEC18-LF-BH209 (PFCP73)	AEC18-LF-BH210	AEC18-LF-BH210	AEC18-LF-BH210	AEC18-LF-BH210	AEC18-LF-BH212	AEC18-LF-BH212	AEC18-LF-BH212	AEC18-LF-BH212	AEC18-LF-BH212A	AEC18-LF-BH213
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
O-Xylene	6603.1	Commercial	mg/kg	0	mg/kg																								
2-Methylphenol	46100	POS PARK	mg/kg	0	mg/kg																								
1,2-Dichlorobenzene	2020	Commercial	mg/kg	0	mg/kg																								
2-Chlorophenol	1010	POS PARK	mg/kg	0	mg/kg																								
1,2,4-Trimethylbenzene	39.4	Commercial	mg/kg	0	mg/kg																								
2,4,5-Trichlorophenol	1010	POS PARK	mg/kg	0	mg/kg			<0.01						<0.01															<0.01
Isopropylbenzene	1300	Commercial	mg/kg	0	mg/kg																								
4-Isopropyltoluene	1300	Commercial	mg/kg	0	mg/kg																								
m,p xylenes	5923.3	Commercial	mg/kg	0	mg/kg																								
Chromium - Hexavalent	220	POS PARK	mg/kg	0	mg/kg				<1.2							<0.6													
Cyanide Free	168	Commercial	mg/kg	0	mg/kg																								
Complex Cyanide	3460	POS PARK	mg/kg	0	mg/kg																								
4-Nitrophenol	7600000	POS PARK	ug/kg	0	ug/kg																								
Ethylbenzene	5705504.8	Commercial	ug/kg	0	ug/kg																								
Styrene	3170000	Commercial	ug/kg	0	ug/kg																								
n-Propylbenzene	3860000	Commercial	ug/kg	0	ug/kg																								
n-Butylbenzene	26597.9	Commercial	ug/kg	0	ug/kg																								
2,4-Dimethylphenol	9180000	POS PARK	ug/kg	0	ug/kg																								
4-Methylphenol	46000000	POS PARK	ug/kg	0	ug/kg																								
1,4-Dichlorobenzene	4220000	Commercial	ug/kg	0	ug/kg																								
1,2-Dichloroethane	671	Commercial	ug/kg	0	ug/kg																								
1,3,5-Trimethylbenzene	39400	Commercial	ug/kg	3	ug/kg																								
Bromobenzene	91500	Commercial	ug/kg	0	ug/kg																								
Toluene VOC	56293712.79	Commercial	ug/kg	0	ug/kg																								
Chlorobenzene	55600	Commercial	ug/kg	0	ug/kg																								
Phenol SVOC	7600000	POS PARK	ug/kg	0	ug/kg																								
Bis(2-chloroethoxy)methane	956	Commercial	ug/kg	1	ug/kg																								
Bis(2-ethylhexyl)phthalate	16600000	POS PARK	ug/kg	0	ug/kg																								
n-Dioctylphthalate	20000000	POS PARK	ug/kg	0	ug/kg																								
Hexachlorobenzene	28900	POS PARK	ug/kg	0	ug/kg																								
1,2,4-Trichlorobenzene	215000	Commercial	ug/kg	0	ug/kg																								
2,4-Dichlorophenol	977000	POS PARK	ug/kg	0	ug/kg																								
2,4-Dinitrotoluene	928000	POS PARK	ug/kg	0	ug/kg																								
Dibromochloromethane	1960	Commercial	ug/kg	0	ug/kg																								
Tetrachloroethene	18600	Commercial	ug/kg	0	ug/kg																								
Dimethyl phthalate	2630000	POS PARK	ug/kg	0	ug/kg																								
Dibenzofuran	10800	POS PARK	ug/kg	5	ug/kg																								
sec-Butylbenzene	26597.8811	Commercial	ug/kg	0	ug/kg																								
cis 1,2-Dichloroethene	13600	Commercial	ug/kg	0	ug/kg																								
trans 1,2-Dichloroethene	20700	Commercial	ug/kg	0	ug/kg																								
Perylene	10800000	POS PARK	ug/kg	0	ug/kg																								
1,3-Dichlorobenzene	29900	Commercial	ug/kg	0	ug/kg																								
Carbon Tetrachloride	2870	Commercial	ug/kg	0	ug/kg																								
4-Chloro-3-methylphenol	46100000	POS PARK	ug/kg	0	ug/kg																								
2,6-Dinitrotoluene	468000	POS PARK	ug/kg	0	ug/kg																								
1,1,1,2-Tetrachloroethane	108000	Commercial	ug/kg	0	ug/kg																								
Chloroform	99100	Commercial	ug/kg	0	ug/kg																								
Hexachloroethane	20900000	Commercial	ug/kg	0	ug/kg																								
Benzene VOC	26597.9	Commercial	ug/kg	0	ug/kg																								
1,1,1-Trichloroethane	660000	Commercial	ug/kg	0	ug/kg																								
Barium	5770	POS PARK	mg/kg	0	mg/kg																								
Chloromethane	956000	Commercial	ug/kg	0	ug/kg																								
Chloroethane	904000000	Commercial	ug/kg	0	ug/kg																								

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Sample Type	Hole Ref	AEC18-LF-BH206	AEC18-LF-BH207A	AEC18-LF-BH207A	AEC18-LF-BH207A	AEC18-LF-BH208	AEC18-LF-BH208	AEC18-LF-BH208	AEC18-LF-BH208	AEC18-LF-BH209 (PFCP73)	AEC18-LF-BH209 (PFCP73)	AEC18-LF-BH209 (PFCP73)	AEC18-LF-BH210	AEC18-LF-BH210	AEC18-LF-BH210	AEC18-LF-BH210	AEC18-LF-BH212	AEC18-LF-BH212	AEC18-LF-BH212	AEC18-LF-BH212	AEC18-LF-BH212A	AEC18-LF-BH213
						Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Vinyl Chloride	59.4	Commercial	ug/kg	0	ug/kg	<120				<6					<6					<6	<1200		<60		<6	<120	<60
Dichloromethane VOC	257000000	Commercial	ug/kg	0	ug/kg	<200				<10					<10					<10	<2000		<100		<10	<200	<100
Carbon Disulphide	11000000	Commercial	ug/kg	0	ug/kg	<140				18.6					19.1					<7	<1400		<70		20.5	<140	<70
Bromoform	714000	Commercial	ug/kg	0	ug/kg	<200				<10					<10					<10	<2000		<100		<10	<200	<100
Bromodichloromethane	1960	Commercial	ug/kg	0	ug/kg	<140				<7					<7					<7	<1400		<70		<7	<140	<70
1,1-Dichloroethane	263000	Commercial	ug/kg	0	ug/kg	<160				<8					<8					<8	<1600		<80		<8	<160	<80
1,1-Dichloroethene	24300	Commercial	ug/kg	0	ug/kg	<200				<10					<10					<10	<2000		<100		<10	<200	<100
Isophorone	26597881.1	Commercial	ug/kg	0	ug/kg	<100				<100					<100					<100	<100		<100		<100	<100	<100
1,2-Dichloropropane	3130	Commercial	ug/kg	0	ug/kg	<200				<10					<10					<10	<2000		<100		<10	<200	<100
1,1,2-Trichloroethane	89100	Commercial	ug/kg	0	ug/kg	<200				<10					<10					<10	<2000		<100		<10	<200	<100
Trichloroethene	1230	Commercial	ug/kg	0	ug/kg	<180				<9					<9					<9	<1800		<90		<9	<180	<90
1,1,2,2-Tetrachloroethane	274000000	Commercial	ug/kg	0	ug/kg	<200				<10					<10					<10	<2000		<100		<10	<200	<100
Diethyl phthalate	89300000	POS PARK	ug/kg	0	ug/kg	<100				<100					<100					<100	<100		<100		<100	1030.0	<100
n-Dibutylphthalate	2630000	POS PARK	ug/kg	0	ug/kg	<100				<100					<100					<100	<100		4650.0		7460.0	103000.0	649.0
Butylbenzyl phthalate SVOC	254000000	POS PARK	ug/kg	0	ug/kg	<100				<100					1810.0					<100	<100		<100		439.0	746.0	22600.0
Carbazole	10800	POS PARK	ug/kg	2	ug/kg	516.0				<100					<100					<100	<100		<100		<100	<100	<100
1,2,3-Trichlorobenzene	102000	Commercial	ug/kg	0	ug/kg	<400				<20					<20					<20	<4000		<200		<20	<400	<200
Hexachlorobutadiene	30700	Commercial	ug/kg	0	ug/kg	<100				<100					<100					<100	<100		<100		<100	<100	<100
Pentachlorophenol	113000	POS PARK	ug/kg	0	ug/kg	<100				<100					<100					<100	<100		<100		<100	3150.0	<100
2,4,6-Trichlorophenol	1010000	POS PARK	ug/kg	0	ug/kg	<100				<100					<100					<100	<100		<100		<100	<100	<100
2-Nitrophenol	7600000000	POS PARK	ug/kg	0	ug/kg	<100				<100					<100					<100	<100		<100		<100	<100	<100
2-Methylnaphthalene (SVOC) DEFAULT	193000	Commercial	ug/kg	2	ug/kg	804.0				<100					<100					<100	327.0		849.0		680.0	618.0	787.0
2-Chloronaphthalene	370000	Commercial	ug/kg	0	ug/kg	<100				<100					<100					<100	<100		<100		<100	<100	<100
o-Xylene	6603100.7	Commercial	ug/kg	0	ug/kg	<200	<10	<10	<100	<10			60.2		<10	<200	559.0		<10	<10	<2000		735.0	<10	40.8	920.0	<100
2-Methylphenol	46100000	POS PARK	ug/kg	0	ug/kg	<100				<100					<100					<100	<100		<100		<100	1260.0	<100
1,2-Dichlorobenzene	2020000	Commercial	ug/kg	0	ug/kg	<100				<10					<10					<10	<100		842.0		<100	520.0	<100
2-Chlorophenol	1010000	POS PARK	ug/kg	0	ug/kg	<100				<100					<100					<100	<100		<100		<100	<100	<100
1,2,4-Trimethylbenzene	39400	Commercial	ug/kg	5	ug/kg	236.0				<9					108.0					<9	<1800		1450.0		416.0	5150.0	144.0
2,4,5-Trichlorophenol	1010000	POS PARK	ug/kg	0	ug/kg	<100				<100					<100					<100	<100		<100		<100	648.0	<100
Isopropylbenzene	1300000	Commercial	ug/kg	0	ug/kg	<100				<5					18.2					<5	<1000		102.0		67.5	156.0	<50
Nitrobenzene	26597881.1	Commercial	ug/kg	0	ug/kg	<100				<100					<100					<100	<100		<100		<100	<100	<100
4-Isopropyltoluene	1300000	Commercial	ug/kg	0	ug/kg	<200				<10					28.7					<10	<2000		1660.0		<10	448.0	<100
m & p Xylene	5923262.7	Commercial	ug/kg	0	ug/kg	<200	<10	<10	<100	<10			513.0		271.0	<200	3820.0		<10	<10	<2000		2220.0	<10	1720.0	3570.0	350.0
Aro >C8-C9	7220	POS PARK	mg/kg	0	mg/kg																						
Aro >C9-C10	7220	POS PARK	mg/kg	0	mg/kg																						
Tributyltin SUBCON I2	42400000	POS PARK	ug/kg	0	ug/kg																						
Atrazine SUBCON Alcontrol	379000000	POS Maintenance	ug/kg	0	ug/kg																						
Aldrin SUBCON Alcontrol	7800000	POS PARK	ug/kg	0	ug/kg			<50							<50						<1000						<50
alpha-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	46500000	POS PARK	ug/kg	0	ug/kg			<50							<50						<1000						<50
beta-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	13300000	POS PARK	ug/kg	0	ug/kg			<50							<50						<1000						<50
Endosulphan II	1960000000	POS Maintenance	ug/kg	0	ug/kg			<50							<50						<1000						<50
Dieldrin SUBCON Alcontrol	12900000	POS PARK	ug/kg	0	ug/kg			<50							<50						<1000						<50
Dichlorvos	26000000	POS PARK	ug/kg	0	ug/kg			<50							<50						<1000						<50
Endosulphan I	1950000000	POS Maintenance	ug/kg	0	ug/kg			<50							<50						<1000						<50
Aro >C35-C44	7820	POS PARK	mg/kg	0	mg/kg																						
Ali >C35-C44	455000	POS PARK	mg/kg	0	mg/kg																						
Anthracene SVOC	149000000	POS PARK	ug/kg	0	ug/kg	2410.0	303.0	198.0	161.0	<100			1410.0		180.0	1880.0	1100.0		30.0	128.0	204.0		285.0	35.5	190.0	47.6	<100
Pyrene SVOC	15100000	POS PARK	ug/kg	0	ug/kg	20800.0	1660.0	1090.0	785.0	806.0			4360.0		492.0	15100.0	4600.0		219.0	1150.0	1610.0		1140.0	124.0	1020.0	244.0	490.0
Benzo(ghi)perylene SVOC	612000	POS Maintenance	ug/kg	0	ug/kg	2600.0	495.0	416.0	521.0	<100			1360.0		120.0	5240.0	790.0		90.9	247.0	695.0		<100	45.3	313.0	64.0	129.0
Indeno(1,2,3-cd)pyrene SVOC	44000	POS Maintenance	ug/kg	1	ug/kg	2940.0	456.0	382.0	387.0	174.0			1300.0		120.0	3930.0	614.0		101.0	202.0	555.0		370.0	30.9	506.0	59.1	<100
Benzo(b)fluoranthene SVOC	13200	POS PARK	ug/kg	7	ug/kg	7750.0	940.0	771.0	741.0	205.0			2870.0		156.0	8460.0	1670.0		189.0	396.0	895.0		1040.0	70.3	451.0	93.0	<100
Fluoranthene SVOC	6300000	POS PARK	ug/kg	0	ug/kg	26800.0	1850.0	1170.0	763.0	932.0			4920.0		564.0	16900.0	5400.0		243.0	4480.0	1810.0		1220.0				

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	AEC18-LF-BH206	AEC18-LF-BH207A	AEC18-LF-BH207A	AEC18-LF-BH207A	AEC18-LF-BH207A	AEC18-LF-BH208	AEC18-LF-BH208	AEC18-LF-BH208	AEC18-LF-BH208	AEC18-LF-BH208	AEC18-LF-BH209 (PFCP73)	AEC18-LF-BH209 (PFCP73)	AEC18-LF-BH209 (PFCP73)	AEC18-LF-BH209 (PFCP73)	AEC18-LF-BH210	AEC18-LF-BH210	AEC18-LF-BH210	AEC18-LF-BH210	AEC18-LF-BH212	AEC18-LF-BH212	AEC18-LF-BH212	AEC18-LF-BH212	AEC18-LF-BH212	AEC18-LF-BH212A	AEC18-LF-BH213
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Benzo(k)fluoranthene SVOC	114000	POS Maintenance	ug/kg	0	ug/kg	2410.0	362.0	307.0	242.0	174.0				1120.0		156.0	3220.0	694.0		57.0	2180.0	1970.0		343.0	30.0	303.0	36.9			<100
Acenaphthylene SVOC	28900000	POS PARK	ug/kg	0	ug/kg	204.0	80.1	35.2	71.7	<100				92.7		<100	274.0	<120		<12	<100	51.6		<100	<12	<100	<100			<100
Chrysene SVOC	91000	POS Maintenance	ug/kg	1	ug/kg	4030.0	794.0	539.0	548.0	269.0				2070.0		216.0	6140.0	1650.0		116.0	2650.0	857.0		1170.0	52.8	421.0	142.0			138.0
Benzo(a)pyrene SVOC	10800	POS PARK	ug/kg	8	ug/kg	7390.0	745.0	541.0	540.0	253.0				2090.0		192.0	6270.0	1130.0		115.0	2330.0	2420.0		993.0	50.0	480.0	89.7			<100
Dibenzo(ah)anthracene SVOC	1150	POS PARK	ug/kg	10	ug/kg	372.0	105.0	87.7	105.0	<100				284.0		<100	964.0	<230		<23	52.1	145.0		<100	<23	<100	<100			<100
Benzo(a)anthracene SVOC	48800	POS PARK	ug/kg	2	ug/kg	9090.0	734.0	513.0	508.0	332.0				2110.0		228.0	6510.0	1360.0		103.0	413.0	964.0		296.0	49.6	462.0	82.6			166.0
Acenaphthene SVOC	28900000	POS PARK	ug/kg	0	ug/kg	2750.0	221.0	177.0	15.4	521.0				1240.0		192.0	558.0	588.0		18.3	<100	<100		399.0	26.7	605.0	48.0			171.0
Phenanthrene SVOC	6170000	POS PARK	ug/kg	0	ug/kg	10400.0	966.0	662.0	286.0	869.0				6020.0		684.0	6400.0	4810.0		112.0	490.0	684.0		1770.0	90.9	1330.0	387.0			704.0
Fluorene SVOC	19600000	POS PARK	ug/kg	0	ug/kg	2480.0	185.0	162.0	47.3	316.0				1320.0		156.0	542.0	672.0		12.5	<100	58.5		479.0	12.9	432.0	61.5			156.0
Naphthalene SVOC	193000	Commercial	ug/kg	1	ug/kg	588.0	156.0	140.0	62.8	<100				1290.0		<100	140.0	177.0		13.1	<100	<2600		<130	<9	370.0	2120.0			<130
Xylenols	9180	POS PARK	mg/kg	0	mg/kg	0.0	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	0.1	<0.015	<0.015	<0.075	<0.075		0.0	<0.015	<0.015	<0.015	<0.015		<0.015	<0.075		<0.015	0.1
Cresols	46100	POS PARK	mg/kg	0	mg/kg	0.0	<0.01	0.0	0.0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	0.1		0.0	<0.01	0.0	<0.01	<0.01		<0.01	<0.05		<0.01	0.0
Tributyltin	42400	POS PARK	mg/kg	0	mg/kg			<0.02						<0.02																0.0
Methyl tert-butyl ether (MTBE)	7480000	Commercial	ug/kg	0	ug/kg	<200			<100	<10						<10	<200	<200			<10	<2000		<100		<10	<200			<100
Aromatics >C6-7	27000000	Commercial	ug/kg	0	ug/kg	<10			<10	<10						<10	<10	16.5								<10				<10
Aromatics >C7-8	56293712.8	Commercial	ug/kg	0	ug/kg	<10			<10	<10						<10	<10	27.9								<10				12.2
Aromatics >C8-10	3460000	Commercial	ug/kg	0	ug/kg	1600.0			9010.0	179.0						1200.0	533.0	1810.0								18.2				3530.0
Aromatics >C10-12	9240000	POS PARK	ug/kg	0	ug/kg	2270.0			12200.0	199.0						1670.0	624.0	1000.0								16.9				2200.0
Aromatics >C12-16	10200000	POS PARK	ug/kg	0	ug/kg	61600.0			6220.0	9470.0						10500.0	10600.0	12800.0								4530.0				197000.0
Aromatics >C16-21	7630000	POS PARK	ug/kg	0	ug/kg	228000.0			46700.0	57000.0						42900.0	98500.0	236000.0								25600.0				432000.0
Aromatics >C21-35	7820000	POS PARK	ug/kg	1	ug/kg	663000.0			225000.0	530000.0						184000.0	429000.0	2390000.0								123000.0				771000.0
Aromatics >C35-44	7820000	POS PARK	ug/kg	0	ug/kg	258000.0			74200.0	45700.0						51100.0	162000.0	451000.0								29900.0				194000.0
Aliphatics >C5-6	3190000	Commercial	ug/kg	0	ug/kg	124.0			25.2	<10						25.2	21.2	47.0								<10				43.2
Aliphatics >C6-8	7780000	Commercial	ug/kg	0	ug/kg	1910.0			216.0	94.8						238.0	94.4	638.0								39.9				709.0
Aliphatics >C8-10	2000000	Commercial	ug/kg	1	ug/kg	2410.0			13500.0	269.0						1800.0	799.0	2710.0								26.6				5300.0
Aliphatics >C10-12	9690000	Commercial	ug/kg	0	ug/kg	3410.0			18400.0	299.0						2510.0	936.0	1500.0								25.4				3300.0
Aliphatics >C12-16	24700000	POS PARK	ug/kg	0	ug/kg	69600.0			30400.0	18300.0						24600.0	7100.0	59700.0								3780.0				756000.0
Aliphatics >C16-21	45500000	POS PARK	ug/kg	0	ug/kg	251000.0			58100.0	117000.0						58700.0	39000.0	628000.0								29700.0				1750000.0
Aliphatics >C21-35	45500000	POS PARK	ug/kg	0	ug/kg	1140000.0			344000.0	628000.0						325000.0	252000.0	3170000.0								240000.0				3490000.0
Aliphatics >C35-44	45500000	POS PARK	ug/kg	0	ug/kg	277000.0			156000.0	207000.0						69100.0	83600.0	404000.0								65000.0				510000.0
Trivalent Chromium	33000	POS PARK	mg/kg	0	mg/kg													<0.3								<0.3				
Molybdenum	2890	POS PARK	mg/kg	0	mg/kg													1.5								0.2				
4-Nitroaniline	10800	POS PARK	ug/kg	0	ug/kg	<100				<100						<100										<100	<100			<100
Azobenzene	10800	POS PARK	ug/kg	0	ug/kg	<100				<100						<100										<100	<100			<100
4-Chloroaniline	10800000	POS PARK	ug/kg	0	ug/kg	<100				<100						<100										<100	<100			<100
2-Nitroaniline	10800	POS PARK	ug/kg	0	ug/kg	<100				<100						<100										<100	<100			<100

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Sample Type	Hole Ref	AEC18-LF-BH213	AEC18-LF-BH213	AEC18-LF-BH214	AEC18-LF-BH214	AEC18-LF-BH214	AEC18-LF-BH216	AEC18-LF-BH216	AEC18-LF-BH216	AEC18-LF-BH217	AEC18-LF-BH217	AEC18-LF-BH217	AEC18-LF-BH217	AEC18-LF-BH217	AEC18-LF-BH218	AEC18-LF-BH218	AEC18-LF-BH218	AEC18-LF-BH219	AEC18-LF-BH219	AEC18-LF-BH219	AEC18-LF-BH220	AEC18-LF-BH220	AEC18-LF-BH220	AEC18-LF-BH221	AEC18-LF-BH221
						Sample Top	Sample Ref	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Ethylbenzene	5705.5	Commercial	mg/kg	0	mg/kg																									
Toluene	56293.7	Commercial	mg/kg	0	mg/kg																									
Anthracene	149000	POS PARK	mg/kg	0	mg/kg																									
Pyrene	15100	POS PARK	mg/kg	0	mg/kg																									
Xylene	6603.1	Commercial	mg/kg	0	mg/kg																									
Benzo (g,h,i) perylene	612	POS Maintenance	mg/kg	0	mg/kg																									
Indeno(1,2,3-cd)pyrene	44	POS Maintenance	mg/kg	0	mg/kg																									
Benzo(b)fluoranthene	13.2	POS PARK	mg/kg	4	mg/kg																									
Fluoranthene	6300	POS PARK	mg/kg	0	mg/kg																									
Benzo(k)fluoranthene	114	POS Maintenance	mg/kg	0	mg/kg																									
Acenaphthylene	28900	POS PARK	mg/kg	0	mg/kg																									
Chrysene	91	POS Maintenance	mg/kg	0	mg/kg																									
Benzo(a)pyrene	10.8	POS PARK	mg/kg	4	mg/kg																									
Dibenz-a-h-anthracene	1.15	POS PARK	mg/kg	5	mg/kg																									
Benzo(a)anthracene	48.8	POS PARK	mg/kg	0	mg/kg																									
Cyanide	24	POS PARK	mg/kg	5	mg/kg	1.0	<1	<1	12.4	18.8	<1	<1	1.7	<1	<0.5	<1	<1	<1	6.7	6.0	9.4	1.5	2.1	<1	<1	<1	<1	<1	1.8	
Benzene	26.60	Commercial	mg/kg	0	mg/kg																									
Lead	1300	POS PARK	mg/kg	13	mg/kg	24.8	161.0	192.0	113.0	104.0	69.2	347.0	544.0	242.0	2170.0	393.0	54.7	34.7	610.0	298.0	134.0	1470.0	65.6	30.6	3.1	329.0	89.0	425.0		
Mercury	244	POS PARK	mg/kg	0	mg/kg	<0.14	<0.14	<0.14	1.1	0.2	<0.14	<1.4	<1.4	<0.14	<0.0001	1.6	<0.14	<0.14	<1.4	0.2	1.5	<0.14	<0.14	<0.14	<0.14	0.3	<0.14	<0.14		
Nickel	804	POS PARK	mg/kg	8	mg/kg	57.0	12.9	25.3	14.3	29.8	22.1	446.0	283.0	23.3	0.1	30.7	28.1	27.4	73.9	142.0	54.6	37.7	63.5	54.0	13.6	44.8	26.9	45.1		
Antimony	3290	POS PARK	mg/kg	0	mg/kg	<0.6	<0.6	5.6	3.3	1.7	4.0	14.4	10.6	3.1	0.2	3.2	<0.6	<0.6	<6	43.1	<0.6	7.6	<0.6	<0.6	<0.6	1.4	1.3	10.4		
Arsenic	168	POS PARK	mg/kg	0	mg/kg	15.7	7.4	14.8	6.5	11.5	9.5	10.7	43.5	11.9	0.0	21.8	15.1	11.2	17.8	32.9	17.8	18.0	11.2	9.4	2.8	21.4	19.0	28.5		
Beryllium	11.7	Commercial	mg/kg	1	mg/kg	3.2	0.5	0.8	0.5	0.8	0.7	0.2	2.3	0.9	<0.001	1.4	1.6	1.6	0.6	2.6	0.8	2.1	0.8	1.6	0.9	0.9	1.9	<0.01		
Boron	46200	POS PARK	mg/kg	0	mg/kg	3.3	4.1	1.0	10.2	7.5	1.4	2.4	8.4	2.9	9.0	3.9	8.3	<1	3.8	2.9	13.4	12.9	3.9	<1	5.2	3.3	<1	59.5		
Cadmium	190	Commercial	mg/kg	0	mg/kg	0.1	2.9	0.5	0.8	1.2	0.1	1.0	2.5	0.5	0.0	1.0	0.4	<0.02	<0.2	1.8	1.9	2.1	0.1	0.0	0.1	0.3	<0.02	2.3		
Chromium	8570	Commercial	mg/kg	1	mg/kg	35.6	5.9	24.0	30.5	22.7	19.5	93.1	71.6	13.1	0.1	16.5	22.4	25.5	360.0	84.2	22.5	28.1	28.8	29.7	10.6	19.7	25.4	<0.9		
Copper	44400	POS PARK	mg/kg	2	mg/kg	35.5	24.9	62.6	170.0	79.8	26.4	39.6	165.0	73.8	0.0	121.0	41.3	20.6	103.0	587.0	358.0	422.0	35.8	28.6	8.4	106.0	30.1	191.0		
Vanadium	2820	POS Maintenance	mg/kg	0	mg/kg	71.9	18.0	36.3	10.8	28.5	26.0	16.0	43.0	29.9	<0.01	38.9	39.1	44.4	225.0	34.3	20.0	46.9	25.1	32.2	18.1	40.5	47.2	21.6		
Zinc	173000	POS PARK	mg/kg	0	mg/kg	107.0	107.0	195.0	201.0	364.0	121.0	138.0	401.0	234.0	0.0	348.0	137.0	72.8	15600.0	340.0	810.0	935.0	139.0	76.9	32.3	239.0	94.4	4270.0		
Selenium	1850	POS PARK	mg/kg	0	mg/kg	<1	<1	<1	<1	<1	<1	<10	<10	<1	<0.01	<1	1.3	<1	<10	2.4	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Acenaphthene	28900	POS PARK	mg/kg	0	mg/kg																									
Phenanthrene	6170	POS PARK	mg/kg	0	mg/kg																									
Fluorene	19600	POS PARK	mg/kg	0	mg/kg																									
Napthalene	193	Commercial	mg/kg	0	mg/kg																									
Phenol (Monohydric)	7600	POS Maintenance	mg/kg	0	mg/kg	<0.035	3.5	<0.035	0.2	<0.035	<0.035	0.3	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	3.4	0.1	0.1	<0.035	<0.035	<0.035	<0.035	0.0	<0.035	<0.035		
Aromatics >C7-8	56293.7	Commercial	mg/kg	0	mg/kg																									
Aromatics >C8-10	3460	Commercial	mg/kg	0	mg/kg																									
Aromatics >C10-12	9240	POS PARK	mg/kg	0	mg/kg																									
Aromatics >C12-16	10200	POS PARK	mg/kg	0	mg/kg																									
Aromatics >C16-21	7630	POS PARK	mg/kg	0	mg/kg																									
Aromatics >C21-35	7820	POS PARK	mg/kg	0	mg/kg																									
Aliphatics >C5-6	3190	Commercial	mg/kg	0	mg/kg																									
Aliphatics >C6-8	7780	Commercial	mg/kg	0	mg/kg																									
Aliphatics >C8-10	2000	Commercial	mg/kg	0	mg/kg																									
Aliphatics >C10-12	9690	Commercial	mg/kg	0	mg/kg																									
Aliphatics >C12-16	24700	POS PARK	mg/kg	0	mg/kg																									
Aliphatics >C16-21	455000	POS PARK	mg/kg	0	mg/kg																									
Aliphatics >C21-35	455000	POS PARK	mg/kg	0	mg/kg																									
Aromatics >C5-7	27	Commercial	mg/kg	0	mg/kg																									
4-Nitroaniline	10.8	POS PARK	mg/kg	0	mg/kg																									
4-Nitrophenol	7600	POS PARK	mg/kg	0	mg/kg																									
Styrene	3170	Commercial	mg/kg	0	mg/kg																									
Azobenzene	10.8	POS PARK	mg/kg	0	mg/kg																									

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	AEC18-LF-BH213	AEC18-LF-BH213	AEC18-LF-BH214	AEC18-LF-BH214	AEC18-LF-BH214	AEC18-LF-BH216	AEC18-LF-BH216	AEC18-LF-BH216	AEC18-LF-BH217	AEC18-LF-BH217	AEC18-LF-BH217	AEC18-LF-BH217	AEC18-LF-BH218	AEC18-LF-BH218	AEC18-LF-BH218	AEC18-LF-BH219	AEC18-LF-BH219	AEC18-LF-BH219	AEC18-LF-BH220	AEC18-LF-BH220	AEC18-LF-BH220	AEC18-LF-BH221	AEC18-LF-BH221
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
n-propylbenzene	3860	Commercial	mg/kg	0	mg/kg																							
n-Butylbenzene	26.598	Commercial	mg/kg	0	mg/kg																							
2,4-Dimethylphenol	9180	POS PARK	mg/kg	0	mg/kg																							
3/4 Methylphenol	46000	POS PARK	mg/kg	0	mg/kg																							
1,4-Dichlorobenzene	4220	Commercial	mg/kg	0	mg/kg																							
1,2-Dichloroethane	0.671	Commercial	mg/kg	0	mg/kg																							
1,3,5-Trimethylbenzene	39.4	Commercial	mg/kg	0	mg/kg																							
Bromobenzene	91.5	Commercial	mg/kg	0	mg/kg																							
Chlorobenzene	55.6	Commercial	mg/kg	0	mg/kg																							
Phenol	7600	POS PARK	mg/kg	0	mg/kg	<0.01	0.0	<0.01	0.0	<0.05	<0.01	0.0	<0.01	<0.01	<0.01	<0.01	<0.01	3.2	<0.01	0.0	<0.05	<0.01	<0.01	<0.01	<0.01	0.0	<0.01	<0.01
Bis(2-chloroethoxy)methane	0.956	Commercial	mg/kg	0	mg/kg																							
Bis(2-ethylhexyl)phthalate	16600	POS PARK	mg/kg	0	mg/kg																							
Di-N-Octyl Phthalate	20000	POS PARK	mg/kg	0	mg/kg																							
Hexachlorobenzene (HCB)	28.9	POS PARK	mg/kg	0	mg/kg																							
1,2,4-Trichlorobenzene	215	Commercial	mg/kg	0	mg/kg																							
2,4-Dichlorophenol	977	POS PARK	mg/kg	0	mg/kg																							
2,4-Dinitrotoluene	928	POS PARK	mg/kg	0	mg/kg																							
Dibromochloromethane	1.96	Commercial	mg/kg	0	mg/kg																							
Tetrachloroethene	18.6	Commercial	mg/kg	0	mg/kg																							
Dimethylphthalate	2630	POS PARK	mg/kg	0	mg/kg																							
Dibenzofuran	10.8	POS PARK	mg/kg	0	mg/kg																							
Sec-Butylbenzene	26.6	Commercial	mg/kg	0	mg/kg																							
cis-1,2-Dichloroethene	13.6	Commercial	mg/kg	0	mg/kg																							
trans-1,2-Dichloroethene	20.7	Commercial	mg/kg	0	mg/kg																							
Methyl tert-butyl ether (MTBE)	7480	Commercial	mg/kg	0	mg/kg																							
1,3-Dichlorobenzene	29.9	Commercial	mg/kg	0	mg/kg																							
Tetrachloromethane (Carbon Tetra Chloride)	2.87	Commercial	mg/kg	0	mg/kg																							
2,3,4,6-Tetrachlorophenol	1000	POS PARK	mg/kg	0	mg/kg																							
4-Chloro-3-Methylphenol	46100	POS PARK	mg/kg	0	mg/kg																							
2,6-Dinitrotoluene	468	POS PARK	mg/kg	0	mg/kg																							
1,1,1,2-Tetrachloroethane	108	Commercial	mg/kg	0	mg/kg																							
Chloroform	99.1	Commercial	mg/kg	0	mg/kg																							
1,1,1-Trichloroethane	660	Commercial	mg/kg	0	mg/kg																							
Chloroethene	0.0594	Commercial	mg/kg	0	mg/kg																							
Tribromomethane	714	Commercial	mg/kg	0	mg/kg																							
Bromodichloromethane	1.96	Commercial	mg/kg	0	mg/kg																							
1,1-Dichloroethane	263	Commercial	mg/kg	0	mg/kg																							
1,1-Dichloroethene	24.3	Commercial	mg/kg	0	mg/kg																							
1,2-Dichloropropane	3.13	Commercial	mg/kg	0	mg/kg																							
1,1,2-Trichloroethane	89.1	Commercial	mg/kg	0	mg/kg																							
Trichloroethene	1.23	Commercial	mg/kg	0	mg/kg																							
Diethylphthalate	89300	POS PARK	mg/kg	0	mg/kg																							
Di-N-Butyl Phthalate	2630	POS PARK	mg/kg	0	mg/kg																							
Butylbenzylphthalate	254000	POS PARK	mg/kg	0	mg/kg																							
Carbazole	10.8	POS PARK	mg/kg	0	mg/kg																							
1,2,3 Trichlorobenzene	102	Commercial	mg/kg	0	mg/kg																							
Hexachlorobutadiene (HCBD)	30.7	Commercial	mg/kg	0	mg/kg																							
Pentachlorophenol (PCP)	113	POS PARK	mg/kg	0	mg/kg																							
2,4,6-Trichlorophenol	1010	POS PARK	mg/kg	0	mg/kg																							
2-Nitroaniline	10.8	POS PARK	mg/kg	0	mg/kg																							
2-Methylnaphthalene	193	Commercial	mg/kg	0	mg/kg																							
2-Chloronaphthalene	370	Commercial	mg/kg	0	mg/kg																							
2,3,5,6-Tetrachlorophenol	1000	POS PARK	mg/kg	0	mg/kg																							

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	AEC18-LF-BH213	AEC18-LF-BH213	AEC18-LF-BH214	AEC18-LF-BH214	AEC18-LF-BH214	AEC18-LF-BH216	AEC18-LF-BH216	AEC18-LF-BH216	AEC18-LF-BH217	AEC18-LF-BH217	AEC18-LF-BH217	AEC18-LF-BH217	AEC18-LF-BH217	AEC18-LF-BH218	AEC18-LF-BH218	AEC18-LF-BH218	AEC18-LF-BH219	AEC18-LF-BH219	AEC18-LF-BH219	AEC18-LF-BH220	AEC18-LF-BH220	AEC18-LF-BH220	AEC18-LF-BH221	AEC18-LF-BH221
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
O-Xylene	6603.1	Commercial	mg/kg	0	mg/kg																								
2-Methylphenol	46100	POS PARK	mg/kg	0	mg/kg																								
1,2-Dichlorobenzene	2020	Commercial	mg/kg	0	mg/kg																								
2-Chlorophenol	1010	POS PARK	mg/kg	0	mg/kg																								
1,2,4-Trimethylbenzene	39.4	Commercial	mg/kg	0	mg/kg																								
2,4,5-Trichlorophenol	1010	POS PARK	mg/kg	0	mg/kg								<0.01			<0.01							<0.01						
Isopropylbenzene	1300	Commercial	mg/kg	0	mg/kg																								
4-Isopropyltoluene	1300	Commercial	mg/kg	0	mg/kg																								
m,p xylenes	5923.3	Commercial	mg/kg	0	mg/kg																								
Chromium - Hexavalent	220	POS PARK	mg/kg	0	mg/kg				<0.6			<0.6				<0.3							<1.2	<0.6					
Cyanide Free	168	Commercial	mg/kg	0	mg/kg				<1			<1				<0.5													
Complex Cyanide	3460	POS PARK	mg/kg	0	mg/kg				1.3			4.6				<0.5													
4-Nitrophenol	7600000	POS PARK	ug/kg	0	ug/kg		<200	<100	<100		<100	<100			<100	<100						<100							
Ethylbenzene	5705504.8	Commercial	ug/kg	0	ug/kg		459.0	<40	<40		66400.0	<80	<4	<80	5.4	<4	<4		<80	<80	<80	47.0			<4	<4			<4
Styrene	3170000	Commercial	ug/kg	0	ug/kg		<10	<100	<100		<200	<200		<200	<10							<200							
n-Propylbenzene	3860000	Commercial	ug/kg	0	ug/kg		80.7	<100	<100		1370.0	<200		<200	<10							<200							
n-Butylbenzene	26597.9	Commercial	ug/kg	0	ug/kg		23.9	<110	<110		<220	<220		<220	<11							<220							
2,4-Dimethylphenol	9180000	POS PARK	ug/kg	0	ug/kg		<200	<100	<100		268.0	<100		<100	<100							<100							
4-Methylphenol	46000000	POS PARK	ug/kg	0	ug/kg		900.0	<100	<100		<100	<100		<100	<100							<100							
1,4-Dichlorobenzene	4220000	Commercial	ug/kg	0	ug/kg		<200	<100	<100		<100	<100		<100	<100							<100							
1,2-Dichloroethane	671	Commercial	ug/kg	0	ug/kg		<5	<50	<50		<100	<100		<100	<5							<100							
1,3,5-Trimethylbenzene	39400	Commercial	ug/kg	3	ug/kg		290.0	<80	<80		17600.0	<160		1170.0	237.0							<160							
Bromobenzene	91500	Commercial	ug/kg	0	ug/kg		<10	<100	<100		<200	<200		<200	<10							<200							
Toluene VOC	56293712.79	Commercial	ug/kg	0	ug/kg		406.0	<70	<70		216.0	<140	<7	<140	<7	<7	<7		<140	<140	<140	<7			<7	<7			<7
Chlorobenzene	55600	Commercial	ug/kg	0	ug/kg		6.9	<50	<50		<100	<100		<100	<5							<100							
Phenol SVOC	7600000	POS PARK	ug/kg	0	ug/kg		<200	<100	<100		<100	<100		<100	<100							<100							
Bis(2-chloroethoxy)methane	956	Commercial	ug/kg	1	ug/kg		<200	<100	<100		<100	<100		<100	<100							<100							
Bis(2-ethylhexyl)phthalate	16600000	POS PARK	ug/kg	0	ug/kg		792.0	1140.0	<100		1630.0	<100		<100	<100							<100							
n-Diethylphthalate	20000000	POS PARK	ug/kg	0	ug/kg		<200	<100	<100		<100	<100		<100	<100							151.0							
Hexachlorobenzene	28900	POS PARK	ug/kg	0	ug/kg		<200	<100	<100		<100	<100		<100	<100							<100	<50						
1,2,4-Trichlorobenzene	215000	Commercial	ug/kg	0	ug/kg		<20	<100	<100		<100	<100		<100	<100							<100							
2,4-Dichlorophenol	977000	POS PARK	ug/kg	0	ug/kg		<200	<100	<100		<100	<100		<100	<100							<100							
2,4-Dinitrotoluene	928000	POS PARK	ug/kg	0	ug/kg		<200	<100	<100		<100	<100		<100	<100							<100							
Dibromochloromethane	1960	Commercial	ug/kg	0	ug/kg		<10	<100	<100		<200	<200		<200	<10							<200							
Tetrachloroethene	18600	Commercial	ug/kg	0	ug/kg		<5	<50	<50		<100	<100		<100	<5							<100							
Dimethyl phthalate	2630000	POS PARK	ug/kg	0	ug/kg		<200	<100	<100		<100	<100		<100	<100							<100							
Dibenzofuran	10800	POS PARK	ug/kg	5	ug/kg		588.0	189.0	<100		590.0	<100		<100	<100							<100							
sec-Butylbenzene	26597.8811	Commercial	ug/kg	0	ug/kg		27.7	<100	<100		578.0	<200		<200	33.6							<200							
cis 1,2-Dichloroethene	13600	Commercial	ug/kg	0	ug/kg		<6	<60	<60		<120	<120		<120	<6							<120							
trans 1,2-Dichloroethene	20700	Commercial	ug/kg	0	ug/kg		<10	<100	<100		<200	<200		<200	<10							<200							
Perylene	10800000	POS PARK	ug/kg	0	ug/kg																								
1,3-Dichlorobenzene	29900	Commercial	ug/kg	0	ug/kg		<200	<100	<100		<100	<100		<100	<100							<100							
Carbon Tetrachloride	2870	Commercial	ug/kg	0	ug/kg		<10	<100	<100		<200	<200		<200	<10							<200							
4-Chloro-3-methylphenol	46100000	POS PARK	ug/kg	0	ug/kg		<200	<100	<100		<100	<100		<100	<100							<100							
2,6-Dinitrotoluene	468000	POS PARK	ug/kg	0	ug/kg		<200	<100	<100		<100	<100		<100	<100							<100							
1,1,1,2-Tetrachloroethane	108000	Commercial	ug/kg	0	ug/kg		<10	<100	<100		<200	<200		<200	<10							<200							
Chloroform	99100	Commercial	ug/kg	0	ug/kg		<8	<80	<80		<160	<160		<160	<8							<160							
Hexachloroethane	20900000	Commercial	ug/kg	0	ug/kg		<200	<100	<100		<100	<100		<100	<100							<100							
Benzene VOC	26597.9	Commercial	ug/kg	0	ug/kg		<9	<90	<90		<180	<180	<9	<180	<9	<9	<9		<180	<180	<180	<9			<9	<9			<9
1,1,1-Trichloroethane	660000	Commercial	ug/kg	0	ug/kg		<7	<70	<70		<140	<140		<140	<7							<140							
Barium	5770	POS PARK	mg/kg	0	mg/kg											1.1													
Chloromethane	956000	Commercial	ug/kg	0	ug/kg		<7	<70	<70		<140	<140		<140	<7							<140							
Chloroethane	904000000	Commercial	ug/kg	0	ug/kg		<10	<100	<100		<200	<200		<200	<10														

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Sample Type	Hole Ref	AEC18-LF-BH213	AEC18-LF-BH213	AEC18-LF-BH214	AEC18-LF-BH214	AEC18-LF-BH214	AEC18-LF-BH216	AEC18-LF-BH216	AEC18-LF-BH216	AEC18-LF-BH217	AEC18-LF-BH217	AEC18-LF-BH217	AEC18-LF-BH217	AEC18-LF-BH217	AEC18-LF-BH218	AEC18-LF-BH218	AEC18-LF-BH218	AEC18-LF-BH219	AEC18-LF-BH219	AEC18-LF-BH219	AEC18-LF-BH220	AEC18-LF-BH220	AEC18-LF-BH220	AEC18-LF-BH221	AEC18-LF-BH221	
						Sample Top	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref
Vinyl Chloride	59.4	Commercial	ug/kg	0	ug/kg			<6		<60	<60		<120	<120		<120	<6								<120						
Dichloromethane VOC	257000000	Commercial	ug/kg	0	ug/kg			<10		<100	222.0		<200	<200		<200	<10								<200						
Carbon Disulphide	11000000	Commercial	ug/kg	0	ug/kg			12.9		<70	<70		279.0	<140		<140	32.9								<140						
Bromoform	714000	Commercial	ug/kg	0	ug/kg			<10		<100	<100		<200	<200		<200	<10								<200						
Bromodichloromethane	1960	Commercial	ug/kg	0	ug/kg			<7		<70	<70		<140	<140		<140	<7								<140						
1,1-Dichloroethane	263000	Commercial	ug/kg	0	ug/kg			<8		<80	<80		<160	<160		<160	<8								<160						
1,1-Dichloroethene	24300	Commercial	ug/kg	0	ug/kg			<10		<100	<100		<200	<200		<200	<10								<200						
Isophorone	26597881.1	Commercial	ug/kg	0	ug/kg			<200		<100	<100		<100	<100		<100	<100								<100						
1,2-Dichloropropane	3130	Commercial	ug/kg	0	ug/kg			<10		<100	<100		<200	<200		<200	<10								<200						
1,1,2-Trichloroethane	89100	Commercial	ug/kg	0	ug/kg			<10		<100	<100		<200	<200		<200	<10								<200						
Trichloroethene	1230	Commercial	ug/kg	0	ug/kg			<9		<90	<90		<180	<180		<180	<9								<180						
1,1,2,2-Tetrachloroethane	274000000	Commercial	ug/kg	0	ug/kg			<10		<100	<100		<200	<200		<200	<10								<200						
Diethyl phthalate	89300000	POS PARK	ug/kg	0	ug/kg			<200		<100	<100		<100	<100		<100	<100								<100						
n-Dibutylphthalate	2630000	POS PARK	ug/kg	0	ug/kg			<200		184.0	<100		1230.0	<100		1230.0	158.0								2350.0						
Butylbenzyl phthalate SVOC	254000000	POS PARK	ug/kg	0	ug/kg			1080.0		253.0	<100		965.0	<100		<100	<100								<100						
Carbazole	10800	POS PARK	ug/kg	2	ug/kg			636.0		<100	<100		228.0	<100		<100	<100								<100						
1,2,3-Trichlorobenzene	102000	Commercial	ug/kg	0	ug/kg			<20		<200	<200		<400	<400		<400	<20								<400						
Hexachlorobutadiene	30700	Commercial	ug/kg	0	ug/kg			<20		<100	<100		<100	<100		<100	<100								<100						
Pentachlorophenol	113000	POS PARK	ug/kg	0	ug/kg			<200		<100	<100		<100	<100		<100	<100								<100						
2,4,6-Trichlorophenol	1010000	POS PARK	ug/kg	0	ug/kg			<200		<100	<100		<100	<100		<100	<100								<100						
2-Nitrophenol	7600000000	POS PARK	ug/kg	0	ug/kg			<200		<100	<100		<100	<100		<100	<100								<100						
2-Methylnaphthalene (SVOC) DEFAULT	193000	Commercial	ug/kg	2	ug/kg			420.0		306.0	<100		1680.0	<100		<100	<100								<100						
2-Chloronaphthalene	370000	Commercial	ug/kg	0	ug/kg			<200		<100	<100		134.0	<100		<100	<100								<100						
o-Xylene	6603100.7	Commercial	ug/kg	0	ug/kg			264.0		<100	<100		36400.0	<200	<10	<200	31.3	<10	<10					<200	<200	<200	29.2		<10	<10	<10
2-Methylphenol	46100000	POS PARK	ug/kg	0	ug/kg			<200		<100	<100		<100	<100		<100	<100								<100						
1,2-Dichlorobenzene	2020000	Commercial	ug/kg	0	ug/kg			<10		<100	<100		<100	<100		<100	<10								<100						
2-Chlorophenol	1010000	POS PARK	ug/kg	0	ug/kg			<200		<100	<100		<100	<100		<100	<100								<100						
1,2,4-Trimethylbenzene	39400	Commercial	ug/kg	5	ug/kg			1040.0		<90	<90		35500.0	<180		1970.0	224.0								<180						
2,4,5-Trichlorophenol	1010000	POS PARK	ug/kg	0	ug/kg			<200		<100	<100		<100	<100		<100	<100								<100						
Isopropylbenzene	1300000	Commercial	ug/kg	0	ug/kg			44.7		<50	<50		960.0	<100		<100	9.1								<100						
Nitrobenzene	26597881.1	Commercial	ug/kg	0	ug/kg			<200		<100	<100		<100	<100		<100	<100								<100						
4-Isopropyltoluene	1300000	Commercial	ug/kg	0	ug/kg			79.3		<100	<100		909.0	<200		<200	55.5								<200						
m & p Xylene	5923262.7	Commercial	ug/kg	0	ug/kg			1280.0		175.0	437.0		254000.0	<200	<10	<200	27.3	<10	<10					596.0	<200	<200	108.0		<10	<10	<10
Aro >C8-C9	7220	POS PARK	mg/kg	0	mg/kg																										
Aro >C9-C10	7220	POS PARK	mg/kg	0	mg/kg																										
Tributyltin SUBCON I2	42400000	POS PARK	ug/kg	0	ug/kg																										
Atrazine SUBCON Alcontrol	379000000	POS Maintenance	ug/kg	0	ug/kg																										
Aldrin SUBCON Alcontrol	7800000	POS PARK	ug/kg	0	ug/kg								<500			<500									<50						
alpha-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	46500000	POS PARK	ug/kg	0	ug/kg								<500			<500									<50						
beta-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	13300000	POS PARK	ug/kg	0	ug/kg								<500			<500									<50						
Endosulphan II	1960000000	POS Maintenance	ug/kg	0	ug/kg								<500			<500									<50						
Dieldrin SUBCON Alcontrol	12900000	POS PARK	ug/kg	0	ug/kg								<500			<500									<50						
Dichlorvos	26000000	POS PARK	ug/kg	0	ug/kg								<500			<500									<50						
Endosulphan I	1950000000	POS Maintenance	ug/kg	0	ug/kg								<500			<500									<50						
Aro >C35-C44	7820	POS PARK	mg/kg	0	mg/kg																										
Ali >C35-C44	455000	POS PARK	mg/kg	0	mg/kg																										
Anthracene SVOC	149000000	POS PARK	ug/kg	0	ug/kg			2000.0		<160	<100		<100	236.0	<80	<160	304.0	475.0	2070.0					<16	116.0	610.0	980.0		<16	147.0	<80
Pyrene SVOC	15100000	POS PARK	ug/kg	0	ug/kg			8890.0		642.0	649.0		295.0	875.0	851.0	832.0	1830.0	1990.0	7050.0					134.0	1290.0	877.0	6050.0		<15	919.0	437.0
Benzo(ghi)perylene SVOC	612000	POS Maintenance	ug/kg	0	ug/kg			2020.0		<240	<240		<100	557.0	367.0	320.0	700.0	691.0	1560.0					85.5	638.0	<120	1590.0				

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	AEC18-LF-BH213	AEC18-LF-BH213	AEC18-LF-BH214	AEC18-LF-BH214	AEC18-LF-BH214	AEC18-LF-BH216	AEC18-LF-BH216	AEC18-LF-BH216	AEC18-LF-BH217	AEC18-LF-BH217	AEC18-LF-BH217	AEC18-LF-BH217	AEC18-LF-BH217	AEC18-LF-BH218	AEC18-LF-BH218	AEC18-LF-BH218	AEC18-LF-BH219	AEC18-LF-BH219	AEC18-LF-BH219	AEC18-LF-BH220	AEC18-LF-BH220	AEC18-LF-BH220	AEC18-LF-BH221	AEC18-LF-BH221
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Benzo(k)fluoranthene SVOC	114000	POS Maintenance	ug/kg	0	ug/kg	19.00	4.70	0.40	14.20	8.20	1.60	4.40	5.90	1.80	10.90	13.20	5.10	7.00	1.00	5.20	9.50	10.50	16.00	4.50	0.10	11.10	5.60	0.30	3.80
Acenaphthylene SVOC	28900000	POS PARK	ug/kg	0	ug/kg				<140	<140		<100	408.0	284.0	<140	442.0	536.0	1180.0		57.6	557.0	<70	1270.0			<14	313.0		108.0
Chrysene SVOC	91000	POS Maintenance	ug/kg	1	ug/kg				<200	<100	<100	<100	<100	<60	<100	<100	158.0	53.8		<12	<100	<60	196.0			<12	96.5		<60
Benzo(a)pyrene SVOC	10800	POS PARK	ug/kg	8	ug/kg				2740.0	1110.0	427.0	172.0	534.0	438.0	378.0	965.0	956.0	2400.0		114.0	661.0	265.0	2260.0			<10	526.0		271.0
Dibenzo(ah)anthracene SVOC	1150	POS PARK	ug/kg	10	ug/kg				3140.0	281.0	481.0	<100	522.0	540.0	303.0	1030.0	1150.0	2720.0		89.4	650.0	193.0	2520.0			<15	623.0		194.0
Benzo(a)anthracene SVOC	48800	POS PARK	ug/kg	2	ug/kg				528.0	<230	<100	<100	<100	<115	<100	<100	192.0	357.0		<23	162.0	<115	315.0			<23	105.0		<115
Acenaphthene SVOC	28900000	POS PARK	ug/kg	0	ug/kg				3890.0	246.0	417.0	<100	393.0	464.0	335.0	1100.0	1120.0	3100.0		96.8	557.0	243.0	2250.0			<14	531.0		264.0
Phenanthrene SVOC	6170000	POS PARK	ug/kg	0	ug/kg				1050.0	614.0	<100	1430.0	200.0	<40	<100	113.0	54.7	1310.0		<8	<100	2980.0	273.0			<8	22.8		<40
Fluorene SVOC	19600000	POS PARK	ug/kg	0	ug/kg				6910.0	875.0	<100	725.0	1110.0	112.0	545.0	1020.0	1920.0	8030.0		78.0	476.0	3530.0	4670.0			<15	483.0		252.0
Naphthalene SVOC	193000	Commercial	ug/kg	1	ug/kg				1380.0	294.0	<100	421.0	210.0	<50	<100	123.0	159.0	1470.0		<10	<100	1660.0	470.0			<10	45.0		<50
Xylenols	9180	POS PARK	mg/kg	0	mg/kg				428.0	<130	<100	25300.0	<260	<45	<260	57.1	32.8	39.0		31.9	<100	974.0	161.0			<9	36.5		171.0
Cresols	46100	POS PARK	mg/kg	0	mg/kg				<0.015	0.2	<0.015	0.1	<0.015	<0.015	0.1	<0.015	<0.015	<0.015	<0.015	0.2	0.0	0.1	<0.075	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Tributyltin	42400	POS PARK	mg/kg	0	mg/kg				0.0	3.3	<0.01	0.0	<0.05	<0.01	0.2	<0.01	<0.01		0.0	<0.01	0.0	<0.01	<0.01	0.1	<0.01	<0.05	0.0	<0.01	<0.01
Methyl tert-butyl ether (MTBE)	7480000	Commercial	ug/kg	0	ug/kg				<10	<100	<100	<200	<200		<200	<10					<200	<200					<10		
Aromatics >C6-7	27000000	Commercial	ug/kg	0	ug/kg				<10	<10	<10	<10	<10	<10	<10	<10	<10					23.4					<10		
Aromatics >C7-8	56293712.8	Commercial	ug/kg	0	ug/kg				12.2				<10		<10	<10							<10				<10		
Aromatics >C8-10	3460000	Commercial	ug/kg	0	ug/kg				2130.0				1700.0		7580.0	3280.0							5660.0				325.0		
Aromatics >C10-12	9240000	POS PARK	ug/kg	0	ug/kg				2670.0				3350.0		21100.0	8130.0							6670.0				357.0		
Aromatics >C12-16	10200000	POS PARK	ug/kg	0	ug/kg				10600.0				20200.0		17600.0	11200.0							44900.0				3650.0		
Aromatics >C16-21	7630000	POS PARK	ug/kg	0	ug/kg				121000.0				313000.0		271000.0	85500.0							332000.0				47000.0		
Aromatics >C21-35	7820000	POS PARK	ug/kg	1	ug/kg				345000.0				1170000.0		1220000.0	310000.0							2060000.0				159000.0		
Aromatics >C35-44	7820000	POS PARK	ug/kg	0	ug/kg				64400.0				157000.0		439000.0	81100.0							572000.0				46400.0		
Aliphatics >C5-6	3190000	Commercial	ug/kg	0	ug/kg				33.8				49.8		34.6	27.7							164.0				12.3		
Aliphatics >C6-8	7780000	Commercial	ug/kg	0	ug/kg				267.0				131.0		98.6	106.0							1330.0				107.0		
Aliphatics >C8-10	2000000	Commercial	ug/kg	1	ug/kg				3200.0				2550.0		11400.0	4920.0							8490.0				486.0		
Aliphatics >C10-12	9690000	Commercial	ug/kg	0	ug/kg				4000.0				5020.0		31600.0	12200.0							10000.0				535.0		
Aliphatics >C12-16	24700000	POS PARK	ug/kg	0	ug/kg				23900.0				35600.0		63100.0	15000.0							144000.0				<100		
Aliphatics >C16-21	45500000	POS PARK	ug/kg	0	ug/kg				135000.0				555000.0		528000.0	103000.0							1150000.0				11600.0		
Aliphatics >C21-35	45500000	POS PARK	ug/kg	0	ug/kg				602000.0				2590000.0		2770000.0	525000.0							5530000.0				92300.0		
Aliphatics >C35-44	45500000	POS PARK	ug/kg	0	ug/kg				87000.0				345000.0		985000.0	126000.0							2000000.0				22800.0		
Trivalent Chromium	33000	POS PARK	mg/kg	0	mg/kg											<0.3													
Molybdenum	2890	POS PARK	mg/kg	0	mg/kg											1.1													
4-Nitroaniline	10800	POS PARK	ug/kg	0	ug/kg				<200	<100	<100	<100	<100	<100	<100	<100						<100							
Azobenzene	10800	POS PARK	ug/kg	0	ug/kg				<200	<100	<100	<100	<100	<100	<100	<100						<100							
4-Chloroaniline	10800000	POS PARK	ug/kg	0	ug/kg				<200	<100	<100	<100	<100	<100	<100	<100						<100							
2-Nitroaniline	10800	POS PARK	ug/kg	0	ug/kg				<200	<100	<100	<100	<100	<100	<100	<100						<100							

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	AEC18-LF-BH221	AEC18-LF-BH222	AEC18-LF-BH222	AEC18-LF-BH222	AEC18-LF-BH222	AEC18-LF-BH223	AEC18-LF-BH223	AEC18-LF-BH223	AEC18-LF-BH223	AEC18-LF-BH223	AEC18-LF-BH224	AEC18-LF-BH224	AEC18-LF-BH225	AEC18-LF-BH225	AEC18-LF-BH225	AEC18-LF-BH225	AEC18-LF-BH226	AEC18-LF-BH226	AEC18-LF-BH226	AEC18-LF-BH227	AEC18-LF-BH227	AEC18-LF-BH227	AEC18-LF-BH228		
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Ethylbenzene	5705.5	Commercial	mg/kg	0	mg/kg																									
Toluene	56293.7	Commercial	mg/kg	0	mg/kg																									
Anthracene	149000	POS PARK	mg/kg	0	mg/kg																									
Pyrene	15100	POS PARK	mg/kg	0	mg/kg																									
Xylene	6603.1	Commercial	mg/kg	0	mg/kg																									
Benzo (g,h,i) perylene	612	POS Maintenance	mg/kg	0	mg/kg																									
Indeno(1,2,3-cd)pyrene	44	POS Maintenance	mg/kg	0	mg/kg																									
Benzo(b)fluoranthene	13.2	POS PARK	mg/kg	4	mg/kg																									
Fluoranthene	6300	POS PARK	mg/kg	0	mg/kg																									
Benzo(k)fluoranthene	114	POS Maintenance	mg/kg	0	mg/kg																									
Acenaphthylene	28900	POS PARK	mg/kg	0	mg/kg																									
Chrysene	91	POS Maintenance	mg/kg	0	mg/kg																									
Benzo(a)pyrene	10.8	POS PARK	mg/kg	4	mg/kg																									
Dibenz-a-h-anthracene	1.15	POS PARK	mg/kg	5	mg/kg																									
Benzo(a)anthracene	48.8	POS PARK	mg/kg	0	mg/kg																									
Cyanide	24	POS PARK	mg/kg	5	mg/kg	9.1	<1	1.8	6.3	46.9	<1	<1	<1	2.2	<1	<1	18.8	24.3	<1	1.4	2.3	<1	<1	<1	7.5	<0.5	<1	5.1	<1	
Benzene	26.60	Commercial	mg/kg	0	mg/kg																									
Lead	1300	POS PARK	mg/kg	13	mg/kg	103.0	76.9	6680.0	201.0	706.0	86.7	58.6	95.4	163.0	1270.0	15.0	752.0	457.0	0.8	352.0	56.8	151.0	43.2	22.1	61.4	<0.002	3.7	821.0	50.9	
Mercury	244	POS PARK	mg/kg	0	mg/kg	<0.14	<0.14	0.6	<0.14	5.6	<0.14	<0.14	<0.14	15.0	<0.14	<0.14	<1.4	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.0001	<0.14	<1.4	<0.14	
Nickel	804	POS PARK	mg/kg	8	mg/kg	65.1	25.9	125.0	75.0	48.8	18.4	25.7	72.7	43.8	112.0	39.9	164.0	803.0	2.1	35.0	29.8	178.0	11.7	38.4	59.7	0.2	5.5	98.5	21.0	
Antimony	3290	POS PARK	mg/kg	0	mg/kg	2.3	3.9	29.8	4.9	7.6	0.7	0.9	2.4	1.7	32.2	<0.6	19.0	53.8	<0.6	11.3	4.3	5.6	<0.6	<0.6	2.4	4.6	<0.6	28.3	<0.6	
Arsenic	168	POS PARK	mg/kg	0	mg/kg	59.7	14.4	20.1	25.0	36.3	7.8	15.6	27.4	18.4	27.4	10.9	22.6	18.2	<0.6	14.0	8.9	31.3	8.0	30.4	6.9	0.1	1.7	77.9	12.8	
Beryllium	11.7	Commercial	mg/kg	1	mg/kg	2.9	1.2	0.7	5.2	2.0	0.7	1.0	0.6	1.8	0.2	2.2	1.4	1.2	0.1	0.9	0.6	1.6	0.3	1.8	0.1	<0.001	0.2	10.8	0.8	
Boron	46200	POS PARK	mg/kg	0	mg/kg	16.3	1.9	4.8	7.7	30.2	<1	1.9	2.3	5.6	1.7	<1	4.3	6.6	<1	4.7	3.2	7.5	<1	<1	3.1	23.0	13.6	62.2	1.4	
Cadmium	190	Commercial	mg/kg	0	mg/kg	<0.02	0.5	2.0	1.9	6.0	0.4	0.5	0.7	2.0	2.3	<0.02	0.9	4.4	0.1	9.0	0.1	<0.02	0.2	<0.02	0.8	0.0	0.1	1.0	0.1	
Chromium	8570	Commercial	mg/kg	1	mg/kg	135.0	21.6	74.9	30.6	18.6	15.7	12.5	13.9	17.6	30.4	22.4	54.3	335.0	1.9	5.9	44.4	238.0	16.6	79.4	26.8	0.1	3.5	18.4	19.6	
Copper	44400	POS PARK	mg/kg	2	mg/kg	147.0	69.4	459.0	208.0	193.0	14.9	21.1	806.0	435.0	907.0	20.8	252.0	313.0	2.3	87.1	87.4	241.0	27.6	32.5	1060.0	0.0	4.9	476.0	50.0	
Vanadium	2820	POS Maintenance	mg/kg	0	mg/kg	60.0	39.4	28.8	66.6	23.9	32.7	31.6	35.1	28.7	32.6	52.8	27.7	41.9	4.1	24.2	18.6	23.8	11.4	78.2	4.6	0.1	6.4	63.5	53.5	
Zinc	173000	POS PARK	mg/kg	0	mg/kg	340.0	182.0	517.0	394.0	3350.0	59.7	89.0	286.0	901.0	911.0	84.2	678.0	1300.0	12.5	284.0	116.0	242.0	86.1	69.2	124.0	0.0	23.5	1010.0	83.0	
Selenium	1850	POS PARK	mg/kg	0	mg/kg	<1	<1	1.3	2.1	<10	<1	<1	1.7	<1	<1	<1	<10	1.9	<1	<1	<1	<1	<1	<1	<1	<1	<0.01	<1	<10	<1
Acenaphthene	28900	POS PARK	mg/kg	0	mg/kg																									
Phenanthrene	6170	POS PARK	mg/kg	0	mg/kg																									
Fluorene	19600	POS PARK	mg/kg	0	mg/kg																									
Napthalene	193	Commercial	mg/kg	0	mg/kg																									
Phenol (Monohydric)	7600	POS Maintenance	mg/kg	0	mg/kg	<0.035	<0.035	0.1	<0.035	<0.035	<0.035	<0.035	0.1	<0.035	0.1	<0.035	0.3	34.8	<0.035	95.5	0.2	1.8	<0.035	0.4	<0.035	<0.035	<0.035	<0.035		
Aromatics >C7-8	56293.7	Commercial	mg/kg	0	mg/kg																									
Aromatics >C8-10	3460	Commercial	mg/kg	0	mg/kg																									
Aromatics >C10-12	9240	POS PARK	mg/kg	0	mg/kg																									
Aromatics >C12-16	10200	POS PARK	mg/kg	0	mg/kg																									
Aromatics >C16-21	7630	POS PARK	mg/kg	0	mg/kg																									
Aromatics >C21-35	7820	POS PARK	mg/kg	0	mg/kg																									
Aliphatics >C5-6	3190	Commercial	mg/kg	0	mg/kg																									
Aliphatics >C6-8	7780	Commercial	mg/kg	0	mg/kg																									
Aliphatics >C8-10	2000	Commercial	mg/kg	0	mg/kg																									
Aliphatics >C10-12	9690	Commercial	mg/kg	0	mg/kg																									
Aliphatics >C12-16	24700	POS PARK	mg/kg	0	mg/kg																									
Aliphatics >C16-21	455000	POS PARK	mg/kg	0	mg/kg																									
Aliphatics >C21-35	455000	POS PARK	mg/kg	0	mg/kg																									
Aromatics >C5-7	27	Commercial	mg/kg	0	mg/kg																									
4-Nitroaniline	10.8	POS PARK	mg/kg	0	mg/kg																									
4-Nitrophenol	7600	POS PARK	mg/kg	0	mg/kg																									
Styrene	3170	Commercial	mg/kg	0	mg/kg																									
Azobenzene	10.8	POS PARK	mg/kg	0	mg/kg																									

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	AEC18-LF-BH221	AEC18-LF-BH222	AEC18-LF-BH222	AEC18-LF-BH222	AEC18-LF-BH222	AEC18-LF-BH223	AEC18-LF-BH223	AEC18-LF-BH223	AEC18-LF-BH223	AEC18-LF-BH223	AEC18-LF-BH224	AEC18-LF-BH224	AEC18-LF-BH225	AEC18-LF-BH225	AEC18-LF-BH225	AEC18-LF-BH225	AEC18-LF-BH225	AEC18-LF-BH226	AEC18-LF-BH226	AEC18-LF-BH226	AEC18-LF-BH227	AEC18-LF-BH227	AEC18-LF-BH227	AEC18-LF-BH228
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
n-propylbenzene	3860	Commercial	mg/kg	0	mg/kg																								
n-Butylbenzene	26.598	Commercial	mg/kg	0	mg/kg																								
2,4-Dimethylphenol	9180	POS PARK	mg/kg	0	mg/kg																								
3/4 Methylphenol	46000	POS PARK	mg/kg	0	mg/kg																								
1,4-Dichlorobenzene	4220	Commercial	mg/kg	0	mg/kg																								
1,2-Dichloroethane	0.671	Commercial	mg/kg	0	mg/kg																								
1,3,5-Trimethylbenzene	39.4	Commercial	mg/kg	0	mg/kg																								
Bromobenzene	91.5	Commercial	mg/kg	0	mg/kg																								
Chlorobenzene	55.6	Commercial	mg/kg	0	mg/kg																								
Phenol	7600	POS PARK	mg/kg	0	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.0	<0.01	<0.01	<0.01	0.1	<0.05	<0.01		6.4	0.1	0.1	<0.01	<0.01	<0.01	<0.01	0.0	<0.01
Bis(2-chloroethoxy)methane	0.956	Commercial	mg/kg	0	mg/kg																								
Bis(2-ethylhexyl)phthalate	16600	POS PARK	mg/kg	0	mg/kg																								
Di-N-Octyl Phthalate	20000	POS PARK	mg/kg	0	mg/kg																								
Hexachlorobenzene (HCB)	28.9	POS PARK	mg/kg	0	mg/kg																								
1,2,4-Trichlorobenzene	215	Commercial	mg/kg	0	mg/kg																								
2,4-Dichlorophenol	977	POS PARK	mg/kg	0	mg/kg																								
2,4-Dinitrotoluene	928	POS PARK	mg/kg	0	mg/kg																								
Dibromochloromethane	1.96	Commercial	mg/kg	0	mg/kg																								
Tetrachloroethene	18.6	Commercial	mg/kg	0	mg/kg																								
Dimethylphthalate	2630	POS PARK	mg/kg	0	mg/kg																								
Dibenzofuran	10.8	POS PARK	mg/kg	0	mg/kg																								
Sec-Butylbenzene	26.6	Commercial	mg/kg	0	mg/kg																								
cis-1,2-Dichloroethene	13.6	Commercial	mg/kg	0	mg/kg																								
trans-1,2-Dichloroethene	20.7	Commercial	mg/kg	0	mg/kg																								
Methyl tert-butyl ether (MTBE)	7480	Commercial	mg/kg	0	mg/kg																								
1,3-Dichlorobenzene	29.9	Commercial	mg/kg	0	mg/kg																								
Tetrachloromethane (Carbon Tetra Chloride)	2.87	Commercial	mg/kg	0	mg/kg																								
2,3,4,6-Tetrachlorophenol	1000	POS PARK	mg/kg	0	mg/kg																								
4-Chloro-3-Methylphenol	46100	POS PARK	mg/kg	0	mg/kg																								
2,6-Dinitrotoluene	468	POS PARK	mg/kg	0	mg/kg																								
1,1,1,2-Tetrachloroethane	108	Commercial	mg/kg	0	mg/kg																								
Chloroform	99.1	Commercial	mg/kg	0	mg/kg																								
1,1,1-Trichloroethane	660	Commercial	mg/kg	0	mg/kg																								
Chloroethene	0.0594	Commercial	mg/kg	0	mg/kg																								
Tribromomethane	714	Commercial	mg/kg	0	mg/kg																								
Bromodichloromethane	1.96	Commercial	mg/kg	0	mg/kg																								
1,1-Dichloroethane	263	Commercial	mg/kg	0	mg/kg																								
1,1-Dichloroethene	24.3	Commercial	mg/kg	0	mg/kg																								
1,2-Dichloropropane	3.13	Commercial	mg/kg	0	mg/kg																								
1,1,2-Trichloroethane	89.1	Commercial	mg/kg	0	mg/kg																								
Trichloroethene	1.23	Commercial	mg/kg	0	mg/kg																								
Diethylphthalate	89300	POS PARK	mg/kg	0	mg/kg																								
Di-N-Butyl Phthalate	2630	POS PARK	mg/kg	0	mg/kg																								
Butylbenzylphthalate	254000	POS PARK	mg/kg	0	mg/kg																								
Carbazole	10.8	POS PARK	mg/kg	0	mg/kg																								
1,2,3 Trichlorobenzene	102	Commercial	mg/kg	0	mg/kg																								
Hexachlorobutadiene (HCBD)	30.7	Commercial	mg/kg	0	mg/kg																								
Pentachlorophenol (PCP)	113	POS PARK	mg/kg	0	mg/kg																								
2,4,6-Trichlorophenol	1010	POS PARK	mg/kg	0	mg/kg																								
2-Nitroaniline	10.8	POS PARK	mg/kg	0	mg/kg																								
2-Methylnaphthalene	193	Commercial	mg/kg	0	mg/kg																								
2-Chloronaphthalene	370	Commercial	mg/kg	0	mg/kg																								
2,3,5,6-Tetrachlorophenol	1000	POS PARK	mg/kg	0	mg/kg																								

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	AEC18-LF-BH221	AEC18-LF-BH222	AEC18-LF-BH222	AEC18-LF-BH222	AEC18-LF-BH222	AEC18-LF-BH223	AEC18-LF-BH223	AEC18-LF-BH223	AEC18-LF-BH223	AEC18-LF-BH223	AEC18-LF-BH224	AEC18-LF-BH224	AEC18-LF-BH225	AEC18-LF-BH225	AEC18-LF-BH225	AEC18-LF-BH225	AEC18-LF-BH225	AEC18-LF-BH226	AEC18-LF-BH226	AEC18-LF-BH226	AEC18-LF-BH227	AEC18-LF-BH227	AEC18-LF-BH227	AEC18-LF-BH228
					Sample Top	Sample Ref	Sample Type	6.90	0.16	3.55	4.10	7.40	0.70	1.70	10.10	5.30	7.60	0.30	4.80	0.70	13.00	3.10	7.90	9.50	1.20	10.00	5.50	1.80	3.80
O-Xylene	6603.1	Commercial	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
2-Methylphenol	46100	POS PARK	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
1,2-Dichlorobenzene	2020	Commercial	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
2-Chlorophenol	1010	POS PARK	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
1,2,4-Trimethylbenzene	39.4	Commercial	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
2,4,5-Trichlorophenol	1010	POS PARK	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Isopropylbenzene	1300	Commercial	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
4-Isopropyltoluene	1300	Commercial	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
m,p xylenes	5923.3	Commercial	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Chromium - Hexavalent	220	POS PARK	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Cyanide Free	168	Commercial	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Complex Cyanide	3460	POS PARK	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
4-Nitrophenol	7600000	POS PARK	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Ethylbenzene	5705504.8	Commercial	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Styrene	3170000	Commercial	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
n-Propylbenzene	3860000	Commercial	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
n-Butylbenzene	26597.9	Commercial	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
2,4-Dimethylphenol	9180000	POS PARK	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
4-Methylphenol	46000000	POS PARK	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
1,4-Dichlorobenzene	4220000	Commercial	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
1,2-Dichloroethane	671	Commercial	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
1,3,5-Trimethylbenzene	39400	Commercial	ug/kg	3	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Bromobenzene	91500	Commercial	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Toluene VOC	56293712.79	Commercial	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Chlorobenzene	55600	Commercial	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Phenol SVOC	7600000	POS PARK	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Bis(2-chloroethoxy)methane	956	Commercial	ug/kg	1	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Bis(2-ethylhexyl)phthalate	16600000	POS PARK	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
n-Dioctylphthalate	20000000	POS PARK	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Hexachlorobenzene	28900	POS PARK	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
1,2,4-Trichlorobenzene	215000	Commercial	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
2,4-Dichlorophenol	977000	POS PARK	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
2,4-Dinitrotoluene	928000	POS PARK	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Dibromochloromethane	1960	Commercial	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Tetrachloroethene	18600	Commercial	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Dimethyl phthalate	2630000	POS PARK	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Dibenzofuran	10800	POS PARK	ug/kg	5	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
sec-Butylbenzene	26597.8811	Commercial	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
cis 1,2-Dichloroethene	13600	Commercial	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
trans 1,2-Dichloroethene	20700	Commercial	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Perylene	10800000	POS PARK	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
1,3-Dichlorobenzene	29900	Commercial	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Carbon Tetrachloride	2870	Commercial	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
4-Chloro-3-methylphenol	46100000	POS PARK	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
2,6-Dinitrotoluene	468000	POS PARK	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
1,1,1,2-Tetrachloroethane	108000	Commercial	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Chloroform	99100	Commercial	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Hexachloroethane	20900000	Commercial	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Benzene VOC	26597.9	Commercial	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
1,1,1-Trichloroethane	660000	Commercial	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Barium	5770	POS PARK	mg/kg	0	ES	ES	ES																						

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	AEC18-LF-BH221	AEC18-LF-BH222	AEC18-LF-BH222	AEC18-LF-BH222	AEC18-LF-BH222	AEC18-LF-BH223	AEC18-LF-BH223	AEC18-LF-BH223	AEC18-LF-BH223	AEC18-LF-BH223	AEC18-LF-BH224	AEC18-LF-BH224	AEC18-LF-BH225	AEC18-LF-BH225	AEC18-LF-BH225	AEC18-LF-BH225	AEC18-LF-BH225	AEC18-LF-BH226	AEC18-LF-BH226	AEC18-LF-BH226	AEC18-LF-BH227	AEC18-LF-BH227	AEC18-LF-BH227	AEC18-LF-BH228		
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Vinyl Chloride	59.4	Commercial	ug/kg	0	ug/kg			<120		<120	<6			<120	<120			<120		<120	<120			<120	<120			<120			
Dichloromethane VOC	257000000	Commercial	ug/kg	0	ug/kg			<200		<200	<10			<200	<200			<200		<200	<200			<200	<200			<200			
Carbon Disulphide	11000000	Commercial	ug/kg	0	ug/kg			<140		<140	<7			<140	<140			<140		<140	<140			<140	<140			<140			
Bromoform	714000	Commercial	ug/kg	0	ug/kg			<200		<200	<10			<200	<200			<200		<200	<200			<200	<200			<200			
Bromodichloromethane	1960	Commercial	ug/kg	0	ug/kg			<140		<140	<7			<140	<140			<140		<140	<140			<140	<140			<140			
1,1-Dichloroethane	263000	Commercial	ug/kg	0	ug/kg			<160		<160	<8			<160	<160			<160		<160	<160			<160	<160			<160			
1,1,2-Dichloroethane	24300	Commercial	ug/kg	0	ug/kg			<200		<200	<10			<200	<200			<200		<200	<200			<200	<200			<200			
Isophorone	26597881.1	Commercial	ug/kg	0	ug/kg			<100		<100	<100			<100	<200			<500		<100	<500			<100	<100			<200			
1,2-Dichloropropane	3130	Commercial	ug/kg	0	ug/kg			<200		<200	<10			<200	<200			<200		<200	<200			<200	<200			<200			
1,1,2-Trichloroethane	89100	Commercial	ug/kg	0	ug/kg			<200		<200	<10			<200	<200			<200		<200	<200			<200	<200			<200			
Trichloroethene	1230	Commercial	ug/kg	0	ug/kg			<180		<180	<9			<180	<180			<180		<180	<180			<180	<180			<180			
1,1,2,2-Tetrachloroethane	274000000	Commercial	ug/kg	0	ug/kg			<200		<200	<10			<200	<200			<200		<200	<200			<200	<200			<200			
Diethyl phthalate	89300000	POS PARK	ug/kg	0	ug/kg			<100		<100	<100			<100	<200			<500		375.0	<500			186.0	<100			<200			
n-Dibutylphthalate	2630000	POS PARK	ug/kg	0	ug/kg			<100		<100	<100			<100	1070.0			31900.0		4240.0	<500			3490.0	<100			<200			
Butylbenzyl phthalate SVOC	254000000	POS PARK	ug/kg	0	ug/kg			<100		<100	677.0			130.0	406.0			97700.0		831.0	<500			784.0	<100			<200			
Carbazole	10800	POS PARK	ug/kg	2	ug/kg			<100		<100	<100			<100	<200			<500		53700.0	1290.0			113.0	<100			<200			
1,2,3-Trichlorobenzene	102000	Commercial	ug/kg	0	ug/kg			<400		<400	<20			<400	<400			<400		<400	<400			<400	<400			<400			
Hexachlorobutadiene	30700	Commercial	ug/kg	0	ug/kg			<100		<100	<100			<100	<200			<400		<100	<400			<100	<100			<200			
Pentachlorophenol	113000	POS PARK	ug/kg	0	ug/kg			<100		<100	<100			<100	<200			<500		<100	<500			<100	<100			<200			
2,4,6-Trichlorophenol	1010000	POS PARK	ug/kg	0	ug/kg			<100		<100	<100			<100	<200			<500		<100	<500			<100	<100			<200			
2-Nitrophenol	7600000000	POS PARK	ug/kg	0	ug/kg			<100		<100	<100			<100	<200			893.0		<100	<500			<100	<100			<200			
2-Methylnaphthalene (SVOC) DEFAULT	193000	Commercial	ug/kg	2	ug/kg			<100		<100	<100			<100	<200			26000.0		24700.0	13000.0			3030.0	152.0			<200			
2-Chloronaphthalene	370000	Commercial	ug/kg	0	ug/kg			<100		<100	<100			<100	<200			4980.0		4760.0	1390.0			<100	<100			<200			
o-Xylene	6603100.7	Commercial	ug/kg	0	ug/kg			<100	<10	<200	<200	<200	16.9	<10	<10	<200	<200	<200		<200	2230.0			<200	<200	<10	<10	359.0	<200	<10	<200
2-Methylphenol	46100000	POS PARK	ug/kg	0	ug/kg			<100		<100	<100			<100	<200			<500		<100	3150.0			<100	<100			<200			
1,2-Dichlorobenzene	2020000	Commercial	ug/kg	0	ug/kg			<100		<100	<10			<100	<200			768.0		<100	<200			<100	<100			<200			
2-Chlorophenol	1010000	POS PARK	ug/kg	0	ug/kg			<100		<100	<100			<100	<200			<500		<100	<500			<100	<100			<200			
1,2,4-Trimethylbenzene	39400	Commercial	ug/kg	5	ug/kg			<180		<180	345.0			<180	<180			5610.0		416.0	681.0			6850.0	<180			<180			
2,4,5-Trichlorophenol	1010000	POS PARK	ug/kg	0	ug/kg			<100		<100	<100			<100	<200			<500		<100	<500			<100	<100			<200			
Isopropylbenzene	1300000	Commercial	ug/kg	0	ug/kg			<100		<100	<5			<100	<100			176.0		<100	<100			502.0	<100			<100			
Nitrobenzene	26597881.1	Commercial	ug/kg	0	ug/kg			<100		<100	<100			<100	<200			<500		359.0	<500			<100	<100			<200			
4-Isopropyltoluene	1300000	Commercial	ug/kg	0	ug/kg			<200		<200	<10			<200	<200			<200		<200	<200			598.0	<200			<200			
m & p Xylene	5923262.7	Commercial	ug/kg	0	ug/kg			<100	<10	<200	<200	<200	66.7	37.4	<10	<200	<200	<200		<200	6000.0			431.0	313.0	16.0	<10	7170.0	<200	<10	<200
Aro >C8-C9	7220	POS PARK	mg/kg	0	mg/kg																										
Aro >C9-C10	7220	POS PARK	mg/kg	0	mg/kg																										
Tributyltin SUBCON I2	42400000	POS PARK	ug/kg	0	ug/kg																										
Atrazine SUBCON Alcontrol	379000000	POS Maintenance	ug/kg	0	ug/kg																										
Aldrin SUBCON Alcontrol	7800000	POS PARK	ug/kg	0	ug/kg			<50			<1000																				
alpha-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	46500000	POS PARK	ug/kg	0	ug/kg			<50			<1000																				
beta-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	13300000	POS PARK	ug/kg	0	ug/kg			<50			<1000																				
Endosulphan II	1960000000	POS Maintenance	ug/kg	0	ug/kg			<50			<1000																				
Dieldrin SUBCON Alcontrol	12900000	POS PARK	ug/kg	0	ug/kg			<50			<1000																				
Dichlorvos	26000000	POS PARK	ug/kg	0	ug/kg			<50			<1000																				
Endosulphan I	1950000000	POS Maintenance	ug/kg	0	ug/kg			<50			<1000																				
Aro >C35-C44	7820	POS PARK	mg/kg	0	mg/kg																										
Ali >C35-C44	455000	POS PARK	mg/kg	0	mg/kg																										
Anthracene SVOC	149000000	POS PARK	ug/kg	0	ug/kg			<16	379.0	<100	161.0	224.0	<100	84.5	106.0	<100	<200	122.0	2320.0	96600.0	11000.0	241.0	<16	<100	<100	<16	475.0				
Pyrene SVOC	15100000	POS PARK	ug/kg	0	ug/kg			29.5	2670.0	135.0	2970.0	5340.0	644.																		

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	AEC18-LF-BH221	AEC18-LF-BH222	AEC18-LF-BH222	AEC18-LF-BH222	AEC18-LF-BH222	AEC18-LF-BH223	AEC18-LF-BH223	AEC18-LF-BH223	AEC18-LF-BH223	AEC18-LF-BH223	AEC18-LF-BH224	AEC18-LF-BH224	AEC18-LF-BH225	AEC18-LF-BH225	AEC18-LF-BH225	AEC18-LF-BH225	AEC18-LF-BH225	AEC18-LF-BH226	AEC18-LF-BH226	AEC18-LF-BH226	AEC18-LF-BH227	AEC18-LF-BH227	AEC18-LF-BH227	AEC18-LF-BH228		
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Benzo(k)fluoranthene SVOC	114000	POS Maintenance	ug/kg	0	ug/kg	<14	634.0	<100	834.0	1080.0	285.0	155.0	105.0	<100	423.0		70.2	<500		521.0	<500	94.5		<14	<70	111.0	<14	2110.0			
Acenaphthylene SVOC	28900000	POS PARK	ug/kg	0	ug/kg	<12	99.0	<100	53.0	<100	<100	23.6	34.8	<100	<200		26.1	1130.0		784.0	1040.0	18.0		<12	202.0	<100	<12	<200			
Chrysene SVOC	91000	POS Maintenance	ug/kg	1	ug/kg	19.5	1320.0	49.1	1220.0	1160.0	366.0	260.0	170.0	<100	713.0		336.0	1530.0		2700.0	1490.0	268.0		<10	330.0	181.0	<10	2520.0			
Benzo(a)pyrene SVOC	10800	POS PARK	ug/kg	8	ug/kg	<15	1620.0	<100	2050.0	1080.0	322.0	276.0	189.0	<100	713.0		176.0	756.0		4090.0	1380.0	217.0		<15	153.0	188.0	<15	3220.0			
Dibenzo(ah)anthracene SVOC	1150	POS PARK	ug/kg	10	ug/kg	<23	205.0	<100	283.0	<100	<100	33.3	<23	<100	<200		<23	<230		571.0	<500	<23		<23	<100	<100	<23	264.0			
Benzo(a)anthracene SVOC	48800	POS PARK	ug/kg	2	ug/kg	<14	1450.0	117.0	920.0	1120.0	355.0	275.0	188.0	<100	750.0		183.0	1320.0		3230.0	2370.0	279.0		<14	207.0	202.0	<14	2710.0			
Acenaphthene SVOC	28900000	POS PARK	ug/kg	0	ug/kg	17.3	99.6	<100	27.0	<100	<100	40.1	40.7	<100	<200		110.0	2880.0		149000.0	2300.0	204.0		<8	401.0	<100	<8	<200			
Phenanthrene SVOC	6170000	POS PARK	ug/kg	0	ug/kg	<15	1390.0	140.0	327.0	1120.0	344.0	253.0	300.0	<100	652.0		740.0	8470.0		449000.0	16100.0	1550.0		<15	3490.0	207.0	<15	1330.0			
Fluorene SVOC	19600000	POS PARK	ug/kg	0	ug/kg	<10	108.0	<100	41.7	<100	<100	34.5	55.5	<100	<200		157.0	4360.0		174000.0	10700.0	252.0		<10	1180.0	<100	<10	<200			
Naphthalene SVOC	1930000	Commercial	ug/kg	1	ug/kg	19.1	<45	<100	29.2	<100	<100	<9	85.8	<100	<200		142.0	7510.0		15500.0	8230.0	307.0		<9	850.0	<260	<9	<200			
Xylenols	9180	POS PARK	mg/kg	0	mg/kg	<0.015	<0.015	0.1	<0.015	<0.015	<0.015	<0.015	<0.015	0.0	0.0	<0.015	0.1	30.1	<0.015		63.5	0.0	0.9	<0.015	0.4	<0.015	<0.015	<0.015	<0.015	<0.015	
Cresols	46100	POS PARK	mg/kg	0	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.0	0.0	0.0	<0.01	0.1	4.7	<0.01		25.7	0.1	0.8	<0.01	0.0	<0.01	<0.01	<0.01	<0.01	<0.01	
Tributyltin	42400	POS PARK	mg/kg	0	mg/kg	<0.02			<0.02																						
Methyl tert-butyl ether (MTBE)	7480000	Commercial	ug/kg	0	ug/kg	<100		<200	<200	<10				<200	<200			<200		<200	<200			<200	<200		<200				
Aromatics >C6-7	27000000	Commercial	ug/kg	0	ug/kg	<10		<10	<10					<10	<10			327.0			<50			<10			<10				
Aromatics >C7-8	56293712.8	Commercial	ug/kg	0	ug/kg	16.7		<10	<10					42.9	<10			7370.0			<50			<10			<10				
Aromatics >C8-10	3460000	Commercial	ug/kg	0	ug/kg	120.0		203.0		1770.0				2510.0	507.0			54300.0			13500.0				3070.0			68.6			
Aromatics >C10-12	9240000	POS PARK	ug/kg	0	ug/kg	215.0		160.0		1900.0				2630.0	522.0			67300.0			32500.0				3230.0			67.3			
Aromatics >C12-16	10200000	POS PARK	ug/kg	0	ug/kg	1040.0		2210.0		7700.0				3850.0	22200.0			396000.0			439000.0				215000.0			3450.0			
Aromatics >C16-21	7630000	POS PARK	ug/kg	0	ug/kg	5090.0		22100.0		76500.0				62800.0	137000.0			1030000.0			742000.0				693000.0			41400.0			
Aromatics >C21-35	7820000	POS PARK	ug/kg	1	ug/kg	28000.0		221000.0		432000.0				174000.0	526000.0			3000000.0			1180000.0				1050000.0			283000.0			
Aromatics >C35-44	7820000	POS PARK	ug/kg	0	ug/kg	6280.0		34400.0		93400.0				45600.0	210000.0			516000.0			237000.0				178000.0			105000.0			
Aliphatics >C5-6	3190000	Commercial	ug/kg	0	ug/kg	19.5		14.5		46.2				62.4	28.3			1010.0			121.0				12.1			14.5			
Aliphatics >C6-8	7780000	Commercial	ug/kg	0	ug/kg	62.6		71.3		205.0				607.0	218.0			13400.0			1470.0				220.0			54.1			
Aliphatics >C8-10	2000000	Commercial	ug/kg	1	ug/kg	179.0		304.0		2650.0				3770.0	760.0			81400.0			20300.0				4610.0			103.0			
Aliphatics >C10-12	9690000	Commercial	ug/kg	0	ug/kg	324.0		239.0		2840.0				3940.0	782.0			101000.0			48700.0				4840.0			102.0			
Aliphatics >C12-16	24700000	POS PARK	ug/kg	0	ug/kg	2430.0		1160.0		18900.0				7840.0	33100.0			1280000.0			375000.0				1650000.0			523.0			
Aliphatics >C16-21	45500000	POS PARK	ug/kg	0	ug/kg	11000.0		32900.0		53200.0				60700.0	194000.0			4730000.0			394000.0				3180000.0			21000.0			
Aliphatics >C21-35	45500000	POS PARK	ug/kg	0	ug/kg	45200.0		199000.0		321000.0				360000.0	912000.0			9750000.0			465000.0				2560000.0			196000.0			
Aliphatics >C35-44	45500000	POS PARK	ug/kg	0	ug/kg	4770.0		43700.0		58500.0				122000.0	355000.0			1230000.0			37100.0				453000.0			51700.0			
Trivalent Chromium	33000	POS PARK	mg/kg	0	mg/kg																				<0.3						
Molybdenum	2890	POS PARK	mg/kg	0	mg/kg																				0.6						
4-Nitroaniline	10800	POS PARK	ug/kg	0	ug/kg			<100		<100	<100			<100	<200			<500		<100	<500			<100	<100		<100	<200			
Azobenzene	10800	POS PARK	ug/kg	0	ug/kg			<100		<100	<100			<100	<200			<500		1210.0	<500			<100	<100		<100	<200			
4-Chloroaniline	10800000	POS PARK	ug/kg	0	ug/kg			<100		<100	<100			<100	<200			<500		<100	<500			<100	<100		<100	<200			
2-Nitroaniline	10800	POS PARK	ug/kg	0	ug/kg			<100		<100	<100			<100	<200			<500		<100	<500			<100	<100		<100	<200			

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	AEC18-LF-BH228	AEC18-LF-BH228	AEC18-LF-BH228	AEC18-LF-BH228	AEC18-LF-BH228	AEC18-LF-BH228	AEC18-LF-BH229	AEC18-LF-BH229	AEC18-LF-BH229	AEC18-LF-BH231	AEC18-LF-BH231	AEC18-LF-BH231	AEC18-LF-BH231	AEC18-LF-BH232	AEC18-LF-BH232	AEC18-LF-BH232	AEC18-LF-BH233 (PFCPT2)	AEC18-LF-BH233 (PFCPT2)	AEC18-LF-BH233 (PFCPT2)	AEC18-LF-BH233 (PFCPT2)	AEC18-LF-BWS203	AEC18-LF-BWS205 (PFW559)	AEC18-LF-BWS206	AEC18-LF-BWS207	
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
n-propylbenzene	3860	Commercial	mg/kg	0	mg/kg																									
n-Butylbenzene	26.598	Commercial	mg/kg	0	mg/kg																									
2,4-Dimethylphenol	9180	POS PARK	mg/kg	0	mg/kg																									
3/4 Methylphenol	46000	POS PARK	mg/kg	0	mg/kg																									
1,4-Dichlorobenzene	4220	Commercial	mg/kg	0	mg/kg																									
1,2-Dichloroethane	0.671	Commercial	mg/kg	0	mg/kg																									
1,3,5-Trimethylbenzene	39.4	Commercial	mg/kg	0	mg/kg																									
Bromobenzene	91.5	Commercial	mg/kg	0	mg/kg																									
Chlorobenzene	55.6	Commercial	mg/kg	0	mg/kg																									
Phenol	7600	POS PARK	mg/kg	0	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	0.1	<0.01	0.0	<0.01	<0.01	0.0	<0.01	<0.01	<0.01	0.0	<0.01	<0.01	<0.01	<0.01	
Bis(2-chloroethoxy)methane	0.956	Commercial	mg/kg	0	mg/kg																									
Bis(2-ethylhexyl)phthalate	16600	POS PARK	mg/kg	0	mg/kg																									
Di-N-Octyl Phthalate	20000	POS PARK	mg/kg	0	mg/kg																									
Hexachlorobenzene (HCB)	28.9	POS PARK	mg/kg	0	mg/kg																									
1,2,4-Trichlorobenzene	215	Commercial	mg/kg	0	mg/kg																									
2,4-Dichlorophenol	977	POS PARK	mg/kg	0	mg/kg																									
2,4-Dinitrotoluene	928	POS PARK	mg/kg	0	mg/kg																									
Dibromochloromethane	1.96	Commercial	mg/kg	0	mg/kg																									
Tetrachloroethene	18.6	Commercial	mg/kg	0	mg/kg																									
Dimethylphthalate	2630	POS PARK	mg/kg	0	mg/kg																									
Dibenzofuran	10.8	POS PARK	mg/kg	0	mg/kg																									
Sec-Butylbenzene	26.6	Commercial	mg/kg	0	mg/kg																									
cis-1,2-Dichloroethene	13.6	Commercial	mg/kg	0	mg/kg																									
trans-1,2-Dichloroethene	20.7	Commercial	mg/kg	0	mg/kg																									
Methyl tert-butyl ether (MTBE)	7480	Commercial	mg/kg	0	mg/kg																									
1,3-Dichlorobenzene	29.9	Commercial	mg/kg	0	mg/kg																									
Tetrachloromethane (Carbon Tetra Chloride)	2.87	Commercial	mg/kg	0	mg/kg																									
2,3,4,6-Tetrachlorophenol	1000	POS PARK	mg/kg	0	mg/kg																									
4-Chloro-3-Methylphenol	46100	POS PARK	mg/kg	0	mg/kg																									
2,6-Dinitrotoluene	468	POS PARK	mg/kg	0	mg/kg																									
1,1,1,2-Tetrachloroethane	108	Commercial	mg/kg	0	mg/kg																									
Chloroform	99.1	Commercial	mg/kg	0	mg/kg																									
1,1,1-Trichloroethane	660	Commercial	mg/kg	0	mg/kg																									
Chloroethene	0.0594	Commercial	mg/kg	0	mg/kg																									
Tribromomethane	714	Commercial	mg/kg	0	mg/kg																									
Bromodichloromethane	1.96	Commercial	mg/kg	0	mg/kg																									
1,1-Dichloroethane	263	Commercial	mg/kg	0	mg/kg																									
1,1-Dichloroethene	24.3	Commercial	mg/kg	0	mg/kg																									
1,2-Dichloropropane	3.13	Commercial	mg/kg	0	mg/kg																									
1,1,2-Trichloroethane	89.1	Commercial	mg/kg	0	mg/kg																									
Trichloroethene	1.23	Commercial	mg/kg	0	mg/kg																									
Diethylphthalate	89300	POS PARK	mg/kg	0	mg/kg																									
Di-N-Butyl Phthalate	2630	POS PARK	mg/kg	0	mg/kg																									
Butylbenzylphthalate	254000	POS PARK	mg/kg	0	mg/kg																									
Carbazole	10.8	POS PARK	mg/kg	0	mg/kg																									
1,2,3 Trichlorobenzene	102	Commercial	mg/kg	0	mg/kg																									
Hexachlorobutadiene (HCBD)	30.7	Commercial	mg/kg	0	mg/kg																									
Pentachlorophenol (PCP)	113	POS PARK	mg/kg	0	mg/kg																									
2,4,6-Trichlorophenol	1010	POS PARK	mg/kg	0	mg/kg																									
2-Nitroaniline	10.8	POS PARK	mg/kg	0	mg/kg																									
2-Methylnaphthalene	193	Commercial	mg/kg	0	mg/kg																									
2-Chloronaphthalene	370	Commercial	mg/kg	0	mg/kg																									
2,3,5,6-Tetrachlorophenol	1000	POS PARK	mg/kg	0	mg/kg																									

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	AEC18-LF-BH228	AEC18-LF-BH228	AEC18-LF-BH228	AEC18-LF-BH228	AEC18-LF-BH228	AEC18-LF-BH228	AEC18-LF-BH229	AEC18-LF-BH229	AEC18-LF-BH229	AEC18-LF-BH231	AEC18-LF-BH231	AEC18-LF-BH231	AEC18-LF-BH231	AEC18-LF-BH232	AEC18-LF-BH232	AEC18-LF-BH232	AEC18-LF-BH233 (PFCPT2)	AEC18-LF-BH233 (PFCPT2)	AEC18-LF-BH233 (PFCPT2)	AEC18-LF-BH233 (PFCPT2)	AEC18-LF-BWS203	AEC18-LF-BWS205 (PFW559)	AEC18-LF-BWS206	AEC18-LF-BWS207
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
O-Xylene	6603.1	Commercial	mg/kg	0	mg/kg																								
2-Methylphenol	46100	POS PARK	mg/kg	0	mg/kg																								
1,2-Dichlorobenzene	2020	Commercial	mg/kg	0	mg/kg																								
2-Chlorophenol	1010	POS PARK	mg/kg	0	mg/kg																								
1,2,4-Trimethylbenzene	39.4	Commercial	mg/kg	0	mg/kg																								
2,4,5-Trichlorophenol	1010	POS PARK	mg/kg	0	mg/kg																								
Isopropylbenzene	1300	Commercial	mg/kg	0	mg/kg																								
4-Isopropyltoluene	1300	Commercial	mg/kg	0	mg/kg																								
m,p xylenes	5923.3	Commercial	mg/kg	0	mg/kg																								
Chromium - Hexavalent	220	POS PARK	mg/kg	0	mg/kg																								
Cyanide Free	168	Commercial	mg/kg	0	mg/kg																								
Complex Cyanide	3460	POS PARK	mg/kg	0	mg/kg																								
4-Nitrophenol	7600000	POS PARK	ug/kg	0	ug/kg																								
Ethylbenzene	5705504.8	Commercial	ug/kg	0	ug/kg																								
Styrene	3170000	Commercial	ug/kg	0	ug/kg																								
n-Propylbenzene	3860000	Commercial	ug/kg	0	ug/kg																								
n-Butylbenzene	26597.9	Commercial	ug/kg	0	ug/kg																								
2,4-Dimethylphenol	9180000	POS PARK	ug/kg	0	ug/kg																								
4-Methylphenol	46000000	POS PARK	ug/kg	0	ug/kg																								
1,4-Dichlorobenzene	4220000	Commercial	ug/kg	0	ug/kg																								
1,2-Dichloroethane	671	Commercial	ug/kg	0	ug/kg																								
1,3,5-Trimethylbenzene	39400	Commercial	ug/kg	3	ug/kg																								
Bromobenzene	91500	Commercial	ug/kg	0	ug/kg																								
Toluene VOC	56293712.79	Commercial	ug/kg	0	ug/kg																								
Chlorobenzene	55600	Commercial	ug/kg	0	ug/kg																								
Phenol SVOC	7600000	POS PARK	ug/kg	0	ug/kg																								
Bis(2-chloroethoxy)methane	956	Commercial	ug/kg	1	ug/kg																								
Bis(2-ethylhexyl)phthalate	16600000	POS PARK	ug/kg	0	ug/kg																								
n-Diethylphthalate	20000000	POS PARK	ug/kg	0	ug/kg																								
Hexachlorobenzene	28900	POS PARK	ug/kg	0	ug/kg																								
1,2,4-Trichlorobenzene	215000	Commercial	ug/kg	0	ug/kg																								
2,4-Dichlorophenol	977000	POS PARK	ug/kg	0	ug/kg																								
2,4-Dinitrotoluene	928000	POS PARK	ug/kg	0	ug/kg																								
Dibromochloromethane	1960	Commercial	ug/kg	0	ug/kg																								
Tetrachloroethene	18600	Commercial	ug/kg	0	ug/kg																								
Dimethyl phthalate	2630000	POS PARK	ug/kg	0	ug/kg																								
Dibenzofuran	10800	POS PARK	ug/kg	5	ug/kg																								
sec-Butylbenzene	26597.8811	Commercial	ug/kg	0	ug/kg																								
cis 1,2-Dichloroethene	13600	Commercial	ug/kg	0	ug/kg																								
trans 1,2-Dichloroethene	20700	Commercial	ug/kg	0	ug/kg																								
Perylene	10800000	POS PARK	ug/kg	0	ug/kg																								
1,3-Dichlorobenzene	29900	Commercial	ug/kg	0	ug/kg																								
Carbon Tetrachloride	2870	Commercial	ug/kg	0	ug/kg																								
4-Chloro-3-methylphenol	46100000	POS PARK	ug/kg	0	ug/kg																								
2,6-Dinitrotoluene	468000	POS PARK	ug/kg	0	ug/kg																								
1,1,1,2-Tetrachloroethane	108000	Commercial	ug/kg	0	ug/kg																								
Chloroform	99100	Commercial	ug/kg	0	ug/kg																								
Hexachloroethane	20900000	Commercial	ug/kg	0	ug/kg																								
Benzene VOC	26597.9	Commercial	ug/kg	0	ug/kg																								
1,1,1-Trichloroethane	660000	Commercial	ug/kg	0	ug/kg																								
Barium	5770	POS PARK	mg/kg	0	mg/kg																								
Chloromethane	956000	Commercial	ug/kg	0	ug/kg																								
Chloroethane	904000000	Commercial	ug/kg	0	ug/kg																								

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	AEC18-LF-BH228	AEC18-LF-BH228	AEC18-LF-BH228	AEC18-LF-BH228	AEC18-LF-BH228	AEC18-LF-BH228	AEC18-LF-BH229	AEC18-LF-BH229	AEC18-LF-BH229	AEC18-LF-BH231	AEC18-LF-BH231	AEC18-LF-BH231	AEC18-LF-BH231	AEC18-LF-BH232	AEC18-LF-BH232	AEC18-LF-BH232	AEC18-LF-BH233 (PFCP72)	AEC18-LF-BH233 (PFCP72)	AEC18-LF-BH233 (PFCP72)	AEC18-LF-BH233 (PFCP72)	AEC18-LF-BWS203	AEC18-LF-BWS205 (PFWS59)	AEC18-LF-BWS206	AEC18-LF-BWS207
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Vinyl Chloride	59.4	Commercial	ug/kg	0	ug/kg		<6			<120	<120					<1200	<1200			<120	<120			<60	<6				
Dichloromethane VOC	257000000	Commercial	ug/kg	0	ug/kg		<10			<200	<200					<2000	<2000			<200	<200			<100	<10				
Carbon Disulphide	11000000	Commercial	ug/kg	0	ug/kg		<7			<140	<140					<1400	<1400			<140	<140			<70	9.1				
Bromoform	714000	Commercial	ug/kg	0	ug/kg		<10			<200	<200					<2000	<2000			<200	<200			<100	<10				
Bromodichloromethane	1960	Commercial	ug/kg	0	ug/kg		<7			<140	<140					<1400	<1400			<140	<140			<70	<7				
1,1-Dichloroethane	263000	Commercial	ug/kg	0	ug/kg		<8			<160	<160					<1600	<1600			<160	<160			<80	<8				
1,1-Dichloroethene	24300	Commercial	ug/kg	0	ug/kg		<10			<200	<200					<2000	<2000			<200	<200			<100	<10				
Isophorone	26597881.1	Commercial	ug/kg	0	ug/kg		<100			<100	<100					<200	<500			<200	<200			<100	<100				
1,2-Dichloropropane	3130	Commercial	ug/kg	0	ug/kg		<10			<200	<200					<2000	<2000			<200	<200			<100	<10				
1,1,2-Trichloroethane	89100	Commercial	ug/kg	0	ug/kg		<10			<200	<200					<2000	<2000			<200	<200			<100	<10				
Trichloroethene	1230	Commercial	ug/kg	0	ug/kg		<9			<180	<180					<1800	<1800			<180	<180			<90	<9				
1,1,2,2-Tetrachloroethane	274000000	Commercial	ug/kg	0	ug/kg		<10			<200	<200					<2000	<2000			<200	<200			<100	<10				
Diethyl phthalate	89300000	POS PARK	ug/kg	0	ug/kg		<100			<100	<100					<200	<500			<200	<200			<100	<100				
n-Dibutylphthalate	2630000	POS PARK	ug/kg	0	ug/kg		<100			<100	<100					25400.0	1800.0			<200	<200			<100	<100				
Butylbenzyl phthalate SVOC	254000000	POS PARK	ug/kg	0	ug/kg		140.0			<100	<100					788000.0	46800.0			<200	<200			<100	<100				
Carbazole	10800	POS PARK	ug/kg	2	ug/kg		<100			<100	<100					<200	2840.0			<200	350.0			<100	<100				
1,2,3-Trichlorobenzene	102000	Commercial	ug/kg	0	ug/kg		<20			<400	<400					<4000	<4000			<400	<400			<200	<20				
Hexachlorobutadiene	30700	Commercial	ug/kg	0	ug/kg		<100			<100	<100					<200	<4000			<200	<200			<100	<100				
Pentachlorophenol	113000	POS PARK	ug/kg	0	ug/kg		<100			<100	<100					<200	<500			<200	<200			<100	<100				
2,4,6-Trichlorophenol	1010000	POS PARK	ug/kg	0	ug/kg		<100			<100	<100					<200	<500			<200	<200			<100	<100				
2-Nitrophenol	7600000000	POS PARK	ug/kg	0	ug/kg		<100			<100	<100					<200	<500			<200	<200			<100	<100				
2-Methylnaphthalene (SVOC) DEFAULT	193000	Commercial	ug/kg	2	ug/kg		<100			<100	<100					4730.0	3150.0			<200	<200			<100	<100				
2-Chloronaphthalene	370000	Commercial	ug/kg	0	ug/kg		<100			<100	<100					<200	<500			<200	<200			<100	<100				
o-Xylene	6603100.7	Commercial	ug/kg	0	ug/kg		<10	<10	<10	<10	<200	<200	<200	<200	<10	64100.0	3190.0	742.0		<200	<200			<100	<10	<200			
2-Methylphenol	46100000	POS PARK	ug/kg	0	ug/kg		<100			<100	<100					<200	<500			<200	<200			<100	<100				
1,2-Dichlorobenzene	2020000	Commercial	ug/kg	0	ug/kg		<10			<100	<100					1620.0	<2000			<200	<200			<100	<10				
2-Chlorophenol	1010000	POS PARK	ug/kg	0	ug/kg		<100			<100	<100					<200	<500			<200	<200			<100	<100				
1,2,4-Trimethylbenzene	39400	Commercial	ug/kg	5	ug/kg		16.2			<180	<180					514000.0	200000.0			<180	<180			<90	<9				
2,4,5-Trichlorophenol	1010000	POS PARK	ug/kg	0	ug/kg		<100			<100	<100					<200	<500			<200	<200			<100	<100				
Isopropylbenzene	1300000	Commercial	ug/kg	0	ug/kg		<5			<100	<100					5340.0	1900.0			<100	<100			<50	<5				
Nitrobenzene	26597881.1	Commercial	ug/kg	0	ug/kg		<100			<100	<100					<200	<500			<200	<200			<100	<100				
4-Isopropyltoluene	1300000	Commercial	ug/kg	0	ug/kg		<10			<200	<200					<2000	<2000			<200	<200			<100	<10				
m & p Xylene	5923262.7	Commercial	ug/kg	0	ug/kg		<10	<10	<10	<10	<200	<200	<200	804.0	<10	305000.0	38600.0	19800.0		<200	<200			<100	<10	<200			
Aro >C8-C9	7220	POS PARK	mg/kg	0	mg/kg																								
Aro >C9-C10	7220	POS PARK	mg/kg	0	mg/kg																								
Tributyltin SUBCON I2	42400000	POS PARK	ug/kg	0	ug/kg																								
Atrazine SUBCON Alcontrol	379000000	POS Maintenance	ug/kg	0	ug/kg																								
Aldrin SUBCON Alcontrol	7800000	POS PARK	ug/kg	0	ug/kg												<1000								<1000				
alpha-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	46500000	POS PARK	ug/kg	0	ug/kg												<1000								<1000				
beta-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	13300000	POS PARK	ug/kg	0	ug/kg												<1000								<1000				
Endosulphan II	1960000000	POS Maintenance	ug/kg	0	ug/kg												<1000								<1000				
Dieldrin SUBCON Alcontrol	12900000	POS PARK	ug/kg	0	ug/kg												<1000								<1000				
Dichlorvos	26000000	POS PARK	ug/kg	0	ug/kg												<1000								<1000				
Endosulphan I	1950000000	POS Maintenance	ug/kg	0	ug/kg												<1000								<1000				
Aro >C35-C44	7820	POS PARK	mg/kg	0	mg/kg																								
Ali >C35-C44	455000	POS PARK	mg/kg	0	mg/kg																								
Anthracene SVOC	149000000	POS PARK	ug/kg	0	ug/kg		<16	<100	<16	<16	<100	<100	575.0	1290.0	<16	<200	842.0	109.0		48.4	1560.0			<100	<100	164.0			
Pyrene SVOC	15100000	POS PARK	ug/kg	0	ug/kg		<15	<100	<15	<15	616.0	<100	2580.0	2630.0	65.2	480.0	2900.0	436.0		406.0	13700.0			<100	131.0	775.0			
Benzo(ghi)perylene SVOC	612000	POS Maintenance	ug/kg	0	ug/kg		<24	<100	<24	<24	791.0	<100	681.0	239.0	27.7	<200	745.0	83.8		<24	4410.0			<100	<100	<120			
Indeno(1,2,3-cd)pyrene SVOC	44000	POS Maintenance	ug/kg	1	ug/kg		<18	<100	<18	<18	884.0	<100	538.0	191.0	23.4	<200	591.0	62.5		317.0	5090.0			<100	<100	<90			

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	AEC18-LF-BH228	AEC18-LF-BH228	AEC18-LF-BH228	AEC18-LF-BH228	AEC18-LF-BH228	AEC18-LF-BH228	AEC18-LF-BH229	AEC18-LF-BH229	AEC18-LF-BH229	AEC18-LF-BH231	AEC18-LF-BH231	AEC18-LF-BH231	AEC18-LF-BH231	AEC18-LF-BH232	AEC18-LF-BH232	AEC18-LF-BH232	AEC18-LF-BH233 (PFCP72)	AEC18-LF-BH233 (PFCP72)	AEC18-LF-BH233 (PFCP72)	AEC18-LF-BH233 (PFCP72)	AEC18-LF-BWS203	AEC18-LF-BWS205 (PFWS59)	AEC18-LF-BWS206	AEC18-LF-BWS207	
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Benzo(k)fluoranthene SVOC	114000	POS Maintenance	ug/kg	0	ug/kg	<14	<100	<14	<14	571.0	<100		465.0	240.0	25.1	<200	12000.0	65.9		132.0	6340.0		<100	<100	<70					
Acenaphthylene SVOC	28900000	POS PARK	ug/kg	0	ug/kg	<12	<100	<12	<12	<100	<100		43.5	54.7	<12	<200	738.0	74.6		<200	<200		<100	<100	<60					
Chrysene SVOC	91000	POS Maintenance	ug/kg	1	ug/kg	<10	<10	<10	<10	657.0	<100		1100.0	651.0	32.9	<200	15200.0	164.0		211.0	9430.0		<100	<100	240.0					
Benzo(a)pyrene SVOC	10800	POS PARK	ug/kg	8	ug/kg	<15	<100	<15	<15	884.0	<100		880.0	383.0	40.1	<200	13400.0	97.4		319.0	9550.0		<100	<100	189.0					
Dibenzo(ah)anthracene SVOC	1150	POS PARK	ug/kg	10	ug/kg	<23	<100	<23	<23	<100	<100		131.0	50.7	<23	<200	1030.0	<23		<200	1160.0		<100	<100	<115					
Benzo(a)anthracene SVOC	48800	POS PARK	ug/kg	2	ug/kg	<14	<100	<14	<14	734.0	<100		1040.0	750.0	38.2	<200	18600.0	117.0		227.0	9730.0		<100	<100	260.0					
Acenaphthene SVOC	28900000	POS PARK	ug/kg	0	ug/kg	<8	<100	<8	<8	<100	<100		120.0	149.0	<8	301.0	6430.0	320.0		<200	499.0		<100	<100	132.0					
Phenanthrene SVOC	6170000	POS PARK	ug/kg	0	ug/kg	<15	<100	<15	<15	161.0	<100		1730.0	4540.0	44.7	1290.0	34400.0	1200.0		180.0	7870.0		<100	<100	824.0					
Fluorene SVOC	19600000	POS PARK	ug/kg	0	ug/kg	<10	<10	<10	<10	<100	<100		192.0	483.0	<10	452.0	7310.0	631.0		<200	687.0		<10	<100	198.0					
Naphthalene SVOC	193000	Commercial	ug/kg	1	ug/kg	<9	<100	<9	<9	<100	<100		537.0	641.0	48.8	33100.0	19200.0	37100.0		<200	<260		<100	<100	149.0					
Xylenols	9180	POS PARK	mg/kg	0	mg/kg	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015		<0.075	<0.015	6.2	0.1	0.3	<0.015	<0.015	0.1	<0.015	<0.015	<0.015	0.3	<0.015	<0.015	<0.015	<0.015	<0.015
Cresols	46100	POS PARK	mg/kg	0	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		<0.05	<0.01	0.9	0.0	0.0	<0.01	0.0	0.0	0.0	<0.01	<0.01	0.1	<0.01	<0.01	<0.01	<0.01	<0.01
Tributyltin	42400	POS PARK	mg/kg	0	mg/kg											<0.02									<0.02					
Methyl tert-butyl ether (MTBE)	7480000	Commercial	ug/kg	0	ug/kg		<10	<10	<10	<200	<200		<200	<200		<2000	<2000		<200	<200		<100	<10							
Aromatics >C6-7	27000000	Commercial	ug/kg	0	ug/kg			<10	<10	<10	<10		<10	<100		<200	<200		<10	<10		<10								
Aromatics >C7-8	56293712.8	Commercial	ug/kg	0	ug/kg			<10	<10	20.1	10.9		<10	<100		157000.0	<200		<10	<10		<10								
Aromatics >C8-10	3460000	Commercial	ug/kg	0	ug/kg			<10	61.6	197.0	983.0		2140.0	11200.0		1100000.0	84400.0		18.4	1400.0		222.0								
Aromatics >C10-12	9240000	POS PARK	ug/kg	0	ug/kg			<10	59.0	201.0	1780.0		4200.0	19800.0		572000.0	126000.0		18.4	1400.0		270.0								
Aromatics >C12-16	10200000	POS PARK	ug/kg	0	ug/kg			<100	<100	2310.0	14700.0		9530.0	2940.0		274000.0	175000.0		3220.0	40100.0		150.0								
Aromatics >C16-21	7630000	POS PARK	ug/kg	0	ug/kg			1780.0	<100	17700.0	66200.0		150000.0	109000.0		905000.0	606000.0		17600.0	313000.0		23500.0								
Aromatics >C21-35	7820000	POS PARK	ug/kg	1	ug/kg			13300.0	<100	116000.0	487000.0		486000.0	208000.0		4500000.0	2180000.0		181000.0	1300000.0		82600.0								
Aromatics >C35-44	7820000	POS PARK	ug/kg	0	ug/kg			757.0	<100	38000.0	85200.0		69000.0	61600.0		814000.0	568000.0		63800.0	297000.0		37200.0								
Aliphatics >C5-6	3190000	Commercial	ug/kg	0	ug/kg			<10	<10	21.4	81.1		27.9	126.0		7040.0	251.0		16.1	38.8		25.0								
Aliphatics >C6-8	7780000	Commercial	ug/kg	0	ug/kg			<10	35.4	81.7	329.0		249.0	1090.0		132000.0	4730.0		19.6	154.0		84.8								
Aliphatics >C8-10	2000000	Commercial	ug/kg	1	ug/kg			<10	93.0	295.0	1480.0		3220.0	16800.0		1650000.0	127000.0		28.8	2100.0		334.0								
Aliphatics >C10-12	9690000	Commercial	ug/kg	0	ug/kg			<10	89.1	302.0	2660.0		6300.0	29800.0		858000.0	189000.0		28.8	2100.0		404.0								
Aliphatics >C12-16	24700000	POS PARK	ug/kg	0	ug/kg			<100	<100	3160.0	30800.0		32700.0	16600.0		762000.0	354000.0		7590.0	185000.0		2690.0								
Aliphatics >C16-21	455000000	POS PARK	ug/kg	0	ug/kg			2640.0	<100	22100.0	118000.0		184000.0	113000.0		3590000.0	1680000.0		27400.0	463000.0		7330.0								
Aliphatics >C21-35	455000000	POS PARK	ug/kg	0	ug/kg			12400.0	<100	134000.0	688000.0		797000.0	414000.0		11400000.0	6380000.0		275000.0	1760000.0		89000.0								
Aliphatics >C35-44	455000000	POS PARK	ug/kg	0	ug/kg			1520.0	<100	26000.0	124000.0		225000.0	191000.0		1640000.0	1080000.0		46600.0	318000.0		14200.0								
Trivalent Chromium	33000	POS PARK	mg/kg	0	mg/kg																									
Molybdenum	2890	POS PARK	mg/kg	0	mg/kg																									
4-Nitroaniline	10800	POS PARK	ug/kg	0	ug/kg											<200	<500		<200	<200		<100	<100							
Azobenzene	10800	POS PARK	ug/kg	0	ug/kg											<200	<500		<200	<200		<100	<100							
4-Chloroaniline	10800000	POS PARK	ug/kg	0	ug/kg											<200	<500		<200	<200		<100	<100							
2-Nitroaniline	10800	POS PARK	ug/kg	0	ug/kg											<200	<500		<200	<200		<100	<100							

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	AEC18-LF-BWS209	AEC18-LF-BWS209	AEC18-LF-BWS210	AEC18-LF-BWS210	AEC18-LF-BWS211	AEC18-LF-BWS212	AEC18-LF-BWS212	AEC18-LF-BWS213	AEC18-LF-BWS214	AEC18-LF-BWS215	AEC18-LF-BWS215	AEC18-LF-BWS216	AEC18-LF-BWS217	AEC18-LF-BWS217	AEC18-LF-BWS218	AEC18-LF-BWS218	AEC18-LF-BWS219A (PFWS62A)	AEC18-LF-GW201	AEC18-LF-GW202	AEC18-LF-GW202	AEC18-LF-GW203	AEC18-LF-GW203	AEC18-LF-GW203	AEC18-LF-GW203		
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Ethylbenzene	5705.5	Commercial	mg/kg	0	mg/kg																										
Toluene	56293.7	Commercial	mg/kg	0	mg/kg																										
Anthracene	149000	POS PARK	mg/kg	0	mg/kg																										
Pyrene	15100	POS PARK	mg/kg	0	mg/kg																										
Xylene	6603.1	Commercial	mg/kg	0	mg/kg																										
Benzo (g,h,i) perylene	612	POS Maintenance	mg/kg	0	mg/kg																										
Indeno(1,2,3-cd)pyrene	44	POS Maintenance	mg/kg	0	mg/kg																										
Benzo(b)fluoranthene	13.2	POS PARK	mg/kg	4	mg/kg																										
Fluoranthene	6300	POS PARK	mg/kg	0	mg/kg																										
Benzo(k)fluoranthene	114	POS Maintenance	mg/kg	0	mg/kg																										
Acenaphthylene	28900	POS PARK	mg/kg	0	mg/kg																										
Chrysene	91	POS Maintenance	mg/kg	0	mg/kg																										
Benzo(a)pyrene	10.8	POS PARK	mg/kg	4	mg/kg																										
Dibenz-a-h-anthracene	1.15	POS PARK	mg/kg	5	mg/kg																										
Benzo(a)anthracene	48.8	POS PARK	mg/kg	0	mg/kg																										
Cyanide	24	POS PARK	mg/kg	5	mg/kg	<1	<1	<1	<1	<1	<1	3.6	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	3.6	
Benzene	26.60	Commercial	mg/kg	0	mg/kg																										
Lead	1300	POS PARK	mg/kg	13	mg/kg	43.5	19.9	14.6	24.0	24.0	98.2	117.0	29.5	15.9	26.3	3410.0	0.0	53.2	33.2	17.6	31.3	71.3	21.7	24.9	23.5	39.7	1.6	89.5	79.8		
Mercury	244	POS PARK	mg/kg	0	mg/kg	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	0.3	<0.14	<0.14	<0.14	<1.4	<0.0001	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	0.8	<0.14
Nickel	804	POS PARK	mg/kg	8	mg/kg	25.4	233.0	15.3	24.5	41.7	27.8	16.6	60.4	16.0	24.7	299.0	0.1	13.9	26.1	24.0	62.0	33.5	31.6	33.8	33.5	27.6	5.9	20.0	27.1		
Antimony	3290	POS PARK	mg/kg	0	mg/kg	<0.6	<0.6	<0.6	<0.6	<0.6	3.4	2.4	<0.6	<0.6	<0.6	48.8	0.1	0.7	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	5.8	
Arsenic	168	POS PARK	mg/kg	0	mg/kg	15.0	21.7	11.3	13.1	19.4	19.4	11.0	16.2	7.2	22.7	113.0	<0.005	11.9	17.8	15.1	15.7	35.8	18.6	19.4	20.8	13.6	1.3	9.0	26.1		
Beryllium	11.7	Commercial	mg/kg	1	mg/kg	1.4	7.8	0.9	1.3	2.0	0.9	0.6	4.9	0.9	1.3	7.9	<0.001	0.5	2.7	1.4	4.7	1.3	1.4	1.5	2.0	1.4	0.3	1.0	2.3		
Boron	46200	POS PARK	mg/kg	0	mg/kg	<1	<1	10.9	<1	<1	1.8	3.1	<1	<1	<1	7.9	1.9	1.1	1.4	<1	<1	<1	<1	<1	2.3	<1	<1	5.1	36.2		
Cadmium	190	Commercial	mg/kg	0	mg/kg	0.1	2.2	<0.02	<0.02	<0.02	0.1	1.0	0.1	0.1	<0.02	1.0	0.0	0.1	0.1	<0.02	0.3	0.0	0.1	<0.02	<0.02	0.6	0.1	0.3	0.9		
Chromium	8570	Commercial	mg/kg	1	mg/kg	25.3	53.4	37.6	22.3	36.2	13.3	24.5	57.3	20.3	36.7	150.0	0.1	10.2	16.3	34.4	42.3	15.6	41.7	34.6	58.8	19.1	5.8	17.3	12.3		
Copper	44400	POS PARK	mg/kg	2	mg/kg	22.3	56.9	15.2	23.0	28.8	23.0	80.0	49.6	9.1	20.0	2520.0	0.2	22.4	17.1	18.3	46.6	24.9	16.0	25.5	26.6	21.2	4.6	16.8	52.8		
Vanadium	2820	POS Maintenance	mg/kg	0	mg/kg	53.3	92.0	76.7	64.2	85.5	49.1	16.1	86.6	33.3	89.0	87.2	<0.01	40.9	52.5	77.6	88.2	66.5	58.0	68.3	68.6	40.4	10.3	28.1	37.7		
Zinc	173000	POS PARK	mg/kg	0	mg/kg	72.8	235.0	37.0	68.6	90.8	114.0	317.0	176.0	54.7	59.4	5590.0	0.1	86.0	88.5	50.3	162.0	113.0	61.5	88.7	83.6	81.5	24.8	95.4	455.0		
Selenium	1850	POS PARK	mg/kg	0	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<0.01	<1	1.0	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
Acenaphthene	28900	POS PARK	mg/kg	0	mg/kg																										
Phenanthrene	6170	POS PARK	mg/kg	0	mg/kg																										
Fluorene	19600	POS PARK	mg/kg	0	mg/kg																										
Napthalene	193	Commercial	mg/kg	0	mg/kg																										
Phenol (Monohydric)	7600	POS Maintenance	mg/kg	0	mg/kg	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	0.3	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	23.0		
Aromatics >C7-8	56293.7	Commercial	mg/kg	0	mg/kg																										
Aromatics >C8-10	3460	Commercial	mg/kg	0	mg/kg																										
Aromatics >C10-12	9240	POS PARK	mg/kg	0	mg/kg																										
Aromatics >C12-16	10200	POS PARK	mg/kg	0	mg/kg																										
Aromatics >C16-21	7630	POS PARK	mg/kg	0	mg/kg																										
Aromatics >C21-35	7820	POS PARK	mg/kg	0	mg/kg																										
Aliphatics >C5-6	3190	Commercial	mg/kg	0	mg/kg																										
Aliphatics >C6-8	7780	Commercial	mg/kg	0	mg/kg																										
Aliphatics >C8-10	2000	Commercial	mg/kg	0	mg/kg																										
Aliphatics >C10-12	9690	Commercial	mg/kg	0	mg/kg																										
Aliphatics >C12-16	24700	POS PARK	mg/kg	0	mg/kg																										
Aliphatics >C16-21	455000	POS PARK	mg/kg	0	mg/kg																										
Aliphatics >C21-35	455000	POS PARK	mg/kg	0	mg/kg																										
Aromatics >C5-7	27	Commercial	mg/kg	0	mg/kg																										
4-Nitroaniline	10.8	POS PARK	mg/kg	0	mg/kg																										
4-Nitrophenol	7600	POS PARK	mg/kg	0	mg/kg																										
Styrene	3170	Commercial	mg/kg	0	mg/kg																										
Azobenzene	10.8	POS PARK	mg/kg	0	mg/kg																										

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	AEC18-LF-BWS209	AEC18-LF-BWS209	AEC18-LF-BWS210	AEC18-LF-BWS210	AEC18-LF-BWS211	AEC18-LF-BWS212	AEC18-LF-BWS212	AEC18-LF-BWS213	AEC18-LF-BWS214	AEC18-LF-BWS215	AEC18-LF-BWS215	AEC18-LF-BWS216	AEC18-LF-BWS217	AEC18-LF-BWS217	AEC18-LF-BWS218	AEC18-LF-BWS218	AEC18-LF-BWS219A (PFWS62A)	AEC18-LF-GW201	AEC18-LF-GW202	AEC18-LF-GW202	AEC18-LF-GW203	AEC18-LF-GW203	AEC18-LF-GW203	AEC18-LF-GW203	
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
n-propylbenzene	3860	Commercial	mg/kg	0	mg/kg																									
n-Butylbenzene	26.598	Commercial	mg/kg	0	mg/kg																									
2,4-Dimethylphenol	9180	POS PARK	mg/kg	0	mg/kg																									
3/4 Methylphenol	46000	POS PARK	mg/kg	0	mg/kg																									
1,4-Dichlorobenzene	4220	Commercial	mg/kg	0	mg/kg																									
1,2-Dichloroethane	0.671	Commercial	mg/kg	0	mg/kg																									
1,3,5-Trimethylbenzene	39.4	Commercial	mg/kg	0	mg/kg																									
Bromobenzene	91.5	Commercial	mg/kg	0	mg/kg																									
Chlorobenzene	55.6	Commercial	mg/kg	0	mg/kg																									
Phenol	7600	POS PARK	mg/kg	0	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	7.4
Bis(2-chloroethoxy)methane	0.956	Commercial	mg/kg	0	mg/kg																									
Bis(2-ethylhexyl)phthalate	16600	POS PARK	mg/kg	0	mg/kg																									
Di-N-Octyl Phthalate	20000	POS PARK	mg/kg	0	mg/kg																									
Hexachlorobenzene (HCB)	28.9	POS PARK	mg/kg	0	mg/kg																									
1,2,4-Trichlorobenzene	215	Commercial	mg/kg	0	mg/kg																									
2,4-Dichlorophenol	977	POS PARK	mg/kg	0	mg/kg																									
2,4-Dinitrotoluene	928	POS PARK	mg/kg	0	mg/kg																									
Dibromochloromethane	1.96	Commercial	mg/kg	0	mg/kg																									
Tetrachloroethene	18.6	Commercial	mg/kg	0	mg/kg																									
Dimethylphthalate	2630	POS PARK	mg/kg	0	mg/kg																									
Dibenzofuran	10.8	POS PARK	mg/kg	0	mg/kg																									
Sec-Butylbenzene	26.6	Commercial	mg/kg	0	mg/kg																									
cis-1,2-Dichloroethene	13.6	Commercial	mg/kg	0	mg/kg																									
trans-1,2-Dichloroethene	20.7	Commercial	mg/kg	0	mg/kg																									
Methyl tert-butyl ether (MTBE)	7480	Commercial	mg/kg	0	mg/kg																									
1,3-Dichlorobenzene	29.9	Commercial	mg/kg	0	mg/kg																									
Tetrachloromethane (Carbon Tetra Chloride)	2.87	Commercial	mg/kg	0	mg/kg																									
2,3,4,6-Tetrachlorophenol	1000	POS PARK	mg/kg	0	mg/kg																									
4-Chloro-3-Methylphenol	46100	POS PARK	mg/kg	0	mg/kg																									
2,6-Dinitrotoluene	468	POS PARK	mg/kg	0	mg/kg																									
1,1,1,2-Tetrachloroethane	108	Commercial	mg/kg	0	mg/kg																									
Chloroform	99.1	Commercial	mg/kg	0	mg/kg																									
1,1,1-Trichloroethane	660	Commercial	mg/kg	0	mg/kg																									
Chloroethene	0.0594	Commercial	mg/kg	0	mg/kg																									
Tribromomethane	714	Commercial	mg/kg	0	mg/kg																									
Bromodichloromethane	1.96	Commercial	mg/kg	0	mg/kg																									
1,1-Dichloroethane	263	Commercial	mg/kg	0	mg/kg																									
1,1-Dichloroethene	24.3	Commercial	mg/kg	0	mg/kg																									
1,2-Dichloropropane	3.13	Commercial	mg/kg	0	mg/kg																									
1,1,2-Trichloroethane	89.1	Commercial	mg/kg	0	mg/kg																									
Trichloroethene	1.23	Commercial	mg/kg	0	mg/kg																									
Diethylphthalate	89300	POS PARK	mg/kg	0	mg/kg																									
Di-N-Butyl Phthalate	2630	POS PARK	mg/kg	0	mg/kg																									
Butylbenzylphthalate	254000	POS PARK	mg/kg	0	mg/kg																									
Carbazole	10.8	POS PARK	mg/kg	0	mg/kg																									
1,2,3 Trichlorobenzene	102	Commercial	mg/kg	0	mg/kg																									
Hexachlorobutadiene (HCBD)	30.7	Commercial	mg/kg	0	mg/kg																									
Pentachlorophenol (PCP)	113	POS PARK	mg/kg	0	mg/kg																									
2,4,6-Trichlorophenol	1010	POS PARK	mg/kg	0	mg/kg																									
2-Nitroaniline	10.8	POS PARK	mg/kg	0	mg/kg																									
2-Methylnaphthalene	193	Commercial	mg/kg	0	mg/kg																									
2-Chloronaphthalene	370	Commercial	mg/kg	0	mg/kg																									
2,3,5,6-Tetrachlorophenol	1000	POS PARK	mg/kg	0	mg/kg																									

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	AEC18-LF-BWS209	AEC18-LF-BWS209	AEC18-LF-BWS210	AEC18-LF-BWS210	AEC18-LF-BWS211	AEC18-LF-BWS212	AEC18-LF-BWS212	AEC18-LF-BWS213	AEC18-LF-BWS214	AEC18-LF-BWS215	AEC18-LF-BWS215	AEC18-LF-BWS216	AEC18-LF-BWS217	AEC18-LF-BWS217	AEC18-LF-BWS218	AEC18-LF-BWS218	AEC18-LF-BWS219A (PFWS62A)	AEC18-LF-GW201	AEC18-LF-GW202	AEC18-LF-GW202	AEC18-LF-GW203	AEC18-LF-GW203	AEC18-LF-GW203	AEC18-LF-GW203	
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
O-Xylene	6603.1	Commercial	mg/kg	0	mg/kg																									
2-Methylphenol	46100	POS PARK	mg/kg	0	mg/kg																									
1,2-Dichlorobenzene	2020	Commercial	mg/kg	0	mg/kg																									
2-Chlorophenol	1010	POS PARK	mg/kg	0	mg/kg																									
1,2,4-Trimethylbenzene	39.4	Commercial	mg/kg	0	mg/kg																									
2,4,5-Trichlorophenol	1010	POS PARK	mg/kg	0	mg/kg																									
Isopropylbenzene	1300	Commercial	mg/kg	0	mg/kg																									
4-Isopropyltoluene	1300	Commercial	mg/kg	0	mg/kg																									
m,p xylenes	5923.3	Commercial	mg/kg	0	mg/kg																									
Chromium - Hexavalent	220	POS PARK	mg/kg	0	mg/kg							<0.6																		
Cyanide Free	168	Commercial	mg/kg	0	mg/kg																									
Complex Cyanide	3460	POS PARK	mg/kg	0	mg/kg																									
4-Nitrophenol	7600000	POS PARK	ug/kg	0	ug/kg							<100																	<100	
Ethylbenzene	5705504.8	Commercial	ug/kg	0	ug/kg		<4					77.0				<80				<4							<4	9.0	855.0	
Styrene	3170000	Commercial	ug/kg	0	ug/kg							<100																	<10	
n-Propylbenzene	3860000	Commercial	ug/kg	0	ug/kg							<100																	<10	
n-Butylbenzene	26597.9	Commercial	ug/kg	0	ug/kg							<110																	<11	
2,4-Dimethylphenol	9180000	POS PARK	ug/kg	0	ug/kg							<100																	<100	
4-Methylphenol	46000000	POS PARK	ug/kg	0	ug/kg							<100																	<100	
1,4-Dichlorobenzene	4220000	Commercial	ug/kg	0	ug/kg							<100																	<100	
1,2-Dichloroethane	671	Commercial	ug/kg	0	ug/kg							<50																	<5	
1,3,5-Trimethylbenzene	39400	Commercial	ug/kg	3	ug/kg							<80																	<8	
Bromobenzene	91500	Commercial	ug/kg	0	ug/kg							<100																	<10	
Toluene VOC	56293712.79	Commercial	ug/kg	0	ug/kg		<7					<70				<140				<7							<7	<7	<140	
Chlorobenzene	55600	Commercial	ug/kg	0	ug/kg							<50																	<5	
Phenol SVOC	7600000	POS PARK	ug/kg	0	ug/kg							<100																	<100	
Bis(2-chloroethoxy)methane	956	Commercial	ug/kg	1	ug/kg							<100																	<100	
Bis(2-ethylhexyl)phthalate	16600000	POS PARK	ug/kg	0	ug/kg							<100																	<100	
n-Diethylphthalate	20000000	POS PARK	ug/kg	0	ug/kg							<100																	<100	
Hexachlorobenzene	28900	POS PARK	ug/kg	0	ug/kg							<100																	<100	
1,2,4-Trichlorobenzene	215000	Commercial	ug/kg	0	ug/kg							<100																	<100	
2,4-Dichlorophenol	977000	POS PARK	ug/kg	0	ug/kg							<100																	<100	
2,4-Dinitrotoluene	928000	POS PARK	ug/kg	0	ug/kg							<100																	<100	
Dibromochloromethane	1960	Commercial	ug/kg	0	ug/kg							<100																	<10	
Tetrachloroethene	18600	Commercial	ug/kg	0	ug/kg							<50																	<5	
Dimethyl phthalate	2630000	POS PARK	ug/kg	0	ug/kg							<100																	<100	
Dibenzofuran	10800	POS PARK	ug/kg	5	ug/kg							480.0																	<100	
sec-Butylbenzene	26597.8811	Commercial	ug/kg	0	ug/kg							<100																	<10	
cis 1,2-Dichloroethene	13600	Commercial	ug/kg	0	ug/kg							<60																	<6	
trans 1,2-Dichloroethene	20700	Commercial	ug/kg	0	ug/kg							<100																	<10	
Perylene	10800000	POS PARK	ug/kg	0	ug/kg							<100																	<100	
1,3-Dichlorobenzene	29900	Commercial	ug/kg	0	ug/kg							<100																	<100	
Carbon Tetrachloride	2870	Commercial	ug/kg	0	ug/kg							<100																	<10	
4-Chloro-3-methylphenol	46100000	POS PARK	ug/kg	0	ug/kg							<100																	<100	
2,6-Dinitrotoluene	468000	POS PARK	ug/kg	0	ug/kg							<100																	<100	
1,1,1,2-Tetrachloroethane	108000	Commercial	ug/kg	0	ug/kg							<100																	<10	
Chloroform	99100	Commercial	ug/kg	0	ug/kg							<80																	<8	
Hexachloroethane	20900000	Commercial	ug/kg	0	ug/kg							<100																	<100	
Benzene VOC	26597.9	Commercial	ug/kg	0	ug/kg		<9					<90				<180				<9								<9	<9	<180
1,1,1-Trichloroethane	660000	Commercial	ug/kg	0	ug/kg							<70																	<7	
Barium	5770	POS PARK	mg/kg	0	mg/kg												1.5													
Chloromethane	956000	Commercial	ug/kg	0	ug/kg							<70																	<7	
Chloroethane	90400000	Commercial	ug/kg	0	ug/kg							<100																	<10	

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	AEC18-LF-BWS209	AEC18-LF-BWS209	AEC18-LF-BWS210	AEC18-LF-BWS210	AEC18-LF-BWS211	AEC18-LF-BWS212	AEC18-LF-BWS212	AEC18-LF-BWS213	AEC18-LF-BWS214	AEC18-LF-BWS215	AEC18-LF-BWS215	AEC18-LF-BWS216	AEC18-LF-BWS217	AEC18-LF-BWS217	AEC18-LF-BWS218	AEC18-LF-BWS218	AEC18-LF-BWS219A (PFWS62A)	AEC18-LF-GW201	AEC18-LF-GW202	AEC18-LF-GW202	AEC18-LF-GW203	AEC18-LF-GW203	AEC18-LF-GW203	AEC18-LF-GW203	
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Vinyl Chloride	59.4	Commercial	ug/kg	0	ug/kg							<60																	<6	
Dichloromethane VOC	257000000	Commercial	ug/kg	0	ug/kg							<100																	<10	
Carbon Disulphide	11000000	Commercial	ug/kg	0	ug/kg							<70																	<7	
Bromoform	714000	Commercial	ug/kg	0	ug/kg							<100																	<10	
Bromodichloromethane	1960	Commercial	ug/kg	0	ug/kg							<70																	<7	
1,1-Dichloroethane	263000	Commercial	ug/kg	0	ug/kg							<80																	<8	
1,1-Dichloroethene	24300	Commercial	ug/kg	0	ug/kg							<100																	<10	
Isophorone	26597881.1	Commercial	ug/kg	0	ug/kg							<100																	<100	
1,2-Dichloropropane	3130	Commercial	ug/kg	0	ug/kg							<100																	<10	
1,1,2-Trichloroethane	89100	Commercial	ug/kg	0	ug/kg							<100																	<10	
Trichloroethene	1230	Commercial	ug/kg	0	ug/kg							<90																	<9	
1,1,2,2-Tetrachloroethane	274000000	Commercial	ug/kg	0	ug/kg							<100																	<10	
Diethyl phthalate	89300000	POS PARK	ug/kg	0	ug/kg							<100																	<100	
n-Dibutylphthalate	2630000	POS PARK	ug/kg	0	ug/kg							<100																	<100	
Butylbenzyl phthalate SVOC	254000000	POS PARK	ug/kg	0	ug/kg							240.0																	<100	
Carbazole	10800	POS PARK	ug/kg	2	ug/kg							216.0																	<100	
1,2,3-Trichlorobenzene	102000	Commercial	ug/kg	0	ug/kg							<200																	<20	
Hexachlorobutadiene	30700	Commercial	ug/kg	0	ug/kg							<100																	<100	
Pentachlorophenol	113000	POS PARK	ug/kg	0	ug/kg							<100																	<100	
2,4,6-Trichlorophenol	1010000	POS PARK	ug/kg	0	ug/kg							<100																	<100	
2-Nitrophenol	7600000000	POS PARK	ug/kg	0	ug/kg							<100																	<100	
2-Methylnaphthalene (SVOC) DEFAULT	193000	Commercial	ug/kg	2	ug/kg							732.0																	<100	
2-Chloronaphthalene	370000	Commercial	ug/kg	0	ug/kg							<100																	<100	
o-Xylene	6603100.7	Commercial	ug/kg	0	ug/kg							<10				<200			<10		<10						<10	<10	<200	
2-Methylphenol	46100000	POS PARK	ug/kg	0	ug/kg							<100																	<100	
1,2-Dichlorobenzene	2020000	Commercial	ug/kg	0	ug/kg							<100																	<10	
2-Chlorophenol	1010000	POS PARK	ug/kg	0	ug/kg							<100																	<100	
1,2,4-Trimethylbenzene	39400	Commercial	ug/kg	5	ug/kg							144.0																	<9	
2,4,5-Trichlorophenol	1010000	POS PARK	ug/kg	0	ug/kg							<100																	<100	
Isopropylbenzene	1300000	Commercial	ug/kg	0	ug/kg							<50																	<5	
Nitrobenzene	26597881.1	Commercial	ug/kg	0	ug/kg							<100																	<100	
4-Isopropyltoluene	1300000	Commercial	ug/kg	0	ug/kg							<100																	<10	
m & p Xylene	5923262.7	Commercial	ug/kg	0	ug/kg							<10				<200			<10		<10						<10	<10	4020.0	
Aro >C8-C9	7220	POS PARK	mg/kg	0	mg/kg																									
Aro >C9-C10	7220	POS PARK	mg/kg	0	mg/kg																									
Tributyltin SUBCON I2	42400000	POS PARK	ug/kg	0	ug/kg																									
Atrazine SUBCON Alcontrol	379000000	POS Maintenance	ug/kg	0	ug/kg																									
Aldrin SUBCON Alcontrol	7800000	POS PARK	ug/kg	0	ug/kg																									
alpha-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	46500000	POS PARK	ug/kg	0	ug/kg																									
beta-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	13300000	POS PARK	ug/kg	0	ug/kg																									
Endosulphan II	1960000000	POS Maintenance	ug/kg	0	ug/kg																									
Dieldrin SUBCON Alcontrol	12900000	POS PARK	ug/kg	0	ug/kg																									
Dichlorvos	26000000	POS PARK	ug/kg	0	ug/kg																									
Endosulphan I	1950000000	POS Maintenance	ug/kg	0	ug/kg																									
Aro >C35-C44	7820	POS PARK	mg/kg	0	mg/kg																									
Ali >C35-C44	455000	POS PARK	mg/kg	0	mg/kg																									
Anthracene SVOC	149000000	POS PARK	ug/kg	0	ug/kg							<16				2560.0			36.1		39.0						<16	<100	107.0	
Pyrene SVOC	15100000	POS PARK	ug/kg	0	ug/kg							110.0				3070.0			139.0		213.0						<15	45.2	336.0	
Benzo(ghi)perylene SVOC	612000	POS Maintenance	ug/kg	0	ug/kg							54.0				609.0			152.0		56.9						<24	<100	134.0	
Indeno(1,2,3-cd)pyrene SVOC	44000	POS Maintenance	ug/kg	1	ug/kg							41.1				635.0			111.0		55.5						<18	<100	141.0	
Benzo(b)fluoranthene SVOC	13200	POS PARK	ug/kg	7	ug/kg							102.0				1180.0			149.0		132.0						<15	<100	241.0	
Fluoranthene SVOC	6300000	POS PARK	ug/kg	0	ug/kg							117.0				3420.0			208.0		244.0							<17	50.5	344.0

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	AEC18-LF-BWS209	AEC18-LF-BWS209	AEC18-LF-BWS210	AEC18-LF-BWS210	AEC18-LF-BWS211	AEC18-LF-BWS212	AEC18-LF-BWS212	AEC18-LF-BWS213	AEC18-LF-BWS214	AEC18-LF-BWS215	AEC18-LF-BWS215	AEC18-LF-BWS216	AEC18-LF-BWS217	AEC18-LF-BWS217	AEC18-LF-BWS218	AEC18-LF-BWS218	AEC18-LF-BWS219A (PFWS62A)	AEC18-LF-GW201	AEC18-LF-GW202	AEC18-LF-GW202	AEC18-LF-GW203	AEC18-LF-GW203	AEC18-LF-GW203	AEC18-LF-GW203	
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Benzo(k)fluoranthene SVOC	114000	POS Maintenance	ug/kg	0	ug/kg	36.2					491.0				61.1				38.6		<14						<14	<100	74.3	
Acenaphthylene SVOC	28900000	POS PARK	ug/kg	0	ug/kg	<12					173.0				24.9				<12		<12						<12	<100	<12	
Chrysene SVOC	91000	POS Maintenance	ug/kg	1	ug/kg	58.9					1300.0				70.6				92.8		<10						<10	<100	219.0	
Benzo(a)pyrene SVOC	10800	POS PARK	ug/kg	8	ug/kg	61.9					1070.0				118.0				95.0		<15						<15	<100	149.0	
Dibenzo(ah)anthracene SVOC	1150	POS PARK	ug/kg	10	ug/kg	<23					<115				<23				<23		<23						<23	<100	<23	
Benzo(a)anthracene SVOC	48800	POS PARK	ug/kg	2	ug/kg	55.6					1880.0				72.5				103.0		<14						<14	<100	151.0	
Acenaphthene SVOC	28900000	POS PARK	ug/kg	0	ug/kg	<8					768.0				<8				25.7		<8						<8	<100	480.0	
Phenanthrene SVOC	6170000	POS PARK	ug/kg	0	ug/kg	37.7					3440.0				94.8				168.0		<15						<15	<100	529.0	
Fluorene SVOC	19600000	POS PARK	ug/kg	0	ug/kg	<10					756.0				<10				17.2		<10						<10	<10	243.0	
Naphthalene SVOC	193000	Commercial	ug/kg	1	ug/kg	<9					4270.0				40.2				15.9		<9						<9	<100	1830.0	
Xylenols	9180	POS PARK	mg/kg	0	mg/kg	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	0.0	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	0.2	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	0.3
Cresols	46100	POS PARK	mg/kg	0	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	15.2
Tributyltin	42400	POS PARK	mg/kg	0	mg/kg																									
Methyl tert-butyl ether (MTBE)	7480000	Commercial	ug/kg	0	ug/kg						<100								<10								<10	<200		
Aromatics >C6-7	27000000	Commercial	ug/kg	0	ug/kg														<10								<10	<10		
Aromatics >C7-8	56293712.8	Commercial	ug/kg	0	ug/kg														<10								<10	16.8		
Aromatics >C8-10	3460000	Commercial	ug/kg	0	ug/kg														86.3								131.0	2700.0		
Aromatics >C10-12	9240000	POS PARK	ug/kg	0	ug/kg														106.0								20.4	922.0		
Aromatics >C12-16	10200000	POS PARK	ug/kg	0	ug/kg														2340.0								<100	18600.0		
Aromatics >C16-21	7630000	POS PARK	ug/kg	0	ug/kg														11700.0								2630.0	205000.0		
Aromatics >C21-35	7820000	POS PARK	ug/kg	1	ug/kg														63800.0								16900.0	991000.0		
Aromatics >C35-44	7820000	POS PARK	ug/kg	0	ug/kg														26200.0								1760.0	123000.0		
Aliphatics >C5-6	3190000	Commercial	ug/kg	0	ug/kg														<10								<10	154.0		
Aliphatics >C6-8	7780000	Commercial	ug/kg	0	ug/kg														25.0								20.4	646.0		
Aliphatics >C8-10	2000000	Commercial	ug/kg	1	ug/kg														129.0								45.6	1350.0		
Aliphatics >C10-12	9690000	Commercial	ug/kg	0	ug/kg														159.0								31.2	1380.0		
Aliphatics >C12-16	24700000	POS PARK	ug/kg	0	ug/kg														4830.0								<100	13500.0		
Aliphatics >C16-21	455000000	POS PARK	ug/kg	0	ug/kg														28400.0								2890.0	123000.0		
Aliphatics >C21-35	455000000	POS PARK	ug/kg	0	ug/kg														197000.0								25900.0	471000.0		
Aliphatics >C35-44	455000000	POS PARK	ug/kg	0	ug/kg														41600.0								2800.0	39900.0		
Trivalent Chromium	33000	POS PARK	mg/kg	0	mg/kg														<0.3											
Molybdenum	2890	POS PARK	mg/kg	0	mg/kg														0.1											
4-Nitroaniline	10800	POS PARK	ug/kg	0	ug/kg						<100																<100	<100		
Azobenzene	10800	POS PARK	ug/kg	0	ug/kg						<100																<100	<100		
4-Chloroaniline	10800000	POS PARK	ug/kg	0	ug/kg						<100																<100	<100		
2-Nitroaniline	10800	POS PARK	ug/kg	0	ug/kg						<100																<100	<100		

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	AEC18-LF-GW203B	AEC18-LF-GW203B	AEC18-LF-GW203B	AEC18-LF-GW204	AEC18-LF-GW204A	AEC18-LF-GW204A	AEC18-LF-GW204A	AEC18-LF-GW204A	AEC18-LF-GW205A	AEC18-LF-GW205A	AEC18-LF-GW205A	AEC18-LF-GW206	AEC18-LF-GW206	AEC18-LF-GW206	AEC18-LF-GW207A	AEC18-LF-GW207A	AEC18-LF-GW207A	AEC18-LF-GW207A	AEC18-LF-LW201	AEC18-LF-LW201	AEC18-LF-LW202	AEC18-LF-LW202	AEC18-LF-LW202	AEC18-LF-LW202
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Ethylbenzene	5705.5	Commercial	mg/kg	0	mg/kg																								
Toluene	56293.7	Commercial	mg/kg	0	mg/kg																								
Anthracene	149000	POS PARK	mg/kg	0	mg/kg																								
Pyrene	15100	POS PARK	mg/kg	0	mg/kg																								
Xylene	6603.1	Commercial	mg/kg	0	mg/kg																								
Benzo (g,h,i) perylene	612	POS Maintenance	mg/kg	0	mg/kg																								
Indeno(1,2,3-cd)pyrene	44	POS Maintenance	mg/kg	0	mg/kg																								
Benzo(b)fluoranthene	13.2	POS PARK	mg/kg	4	mg/kg																								
Fluoranthene	6300	POS PARK	mg/kg	0	mg/kg																								
Benzo(k)fluoranthene	114	POS Maintenance	mg/kg	0	mg/kg																								
Acenaphthylene	28900	POS PARK	mg/kg	0	mg/kg																								
Chrysene	91	POS Maintenance	mg/kg	0	mg/kg																								
Benzo(a)pyrene	10.8	POS PARK	mg/kg	4	mg/kg																								
Dibenz-a-h-anthracene	1.15	POS PARK	mg/kg	5	mg/kg																								
Benzo(a)anthracene	48.8	POS PARK	mg/kg	0	mg/kg																								
Cyanide	24	POS PARK	mg/kg	5	mg/kg	<1	6.9	<1	<1	<1	8.0	<1	8.0	<1	2.3	<1	<1	<1	<0.5	<1		3.2	<1	<1	2.4	<1	<1	<1	3.4
Benzene	26.60	Commercial	mg/kg	0	mg/kg																								
Lead	1300	POS PARK	mg/kg	13	mg/kg	18.8	65.1	96.8	61.6	47.7	827.0	813.0	790.0	21.2	516.0	89.1	51.9	332.0	0.0	51.9		451.0	20.9	125.0	92.0	100.0	13.5	122.0	1570.0
Mercury	244	POS PARK	mg/kg	0	mg/kg	<0.14	0.3	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.0001	<0.14		<1.4	<0.14	<0.14	<0.14	5.1	<0.14	<0.14	<0.14
Nickel	804	POS PARK	mg/kg	8	mg/kg	23.5	2.2	48.6	16.5	15.5	31.1	48.7	119.0	9.0	31.7	24.3	31.6	139.0	0.1	24.0		99.1	24.4	29.4	25.0	26.0	33.3	27.1	24.8
Antimony	3290	POS PARK	mg/kg	0	mg/kg	<0.6	1.4	3.3	<0.6	<0.6	2.2	17.6	16.4	<0.6	20.2	0.9	<0.6	29.0	0.3	0.6		13.3	<0.6	<0.6	13.2	<0.6	<0.6	1.5	3.7
Arsenic	168	POS PARK	mg/kg	0	mg/kg	10.1	<0.6	29.1	10.9	8.0	21.0	12.1	48.0	3.3	20.0	12.2	11.5	25.7	0.0	17.0		37.6	4.5	20.7	15.4	16.8	19.1	12.3	8.1
Beryllium	11.7	Commercial	mg/kg	1	mg/kg	1.3	<0.01	1.7	1.7	0.9	1.1	<0.01	3.4	0.5	1.9	0.9	1.4	0.3	<0.001	1.1		6.3	0.8	1.0	0.9	1.6	1.1	1.1	1.3
Boron	46200	POS PARK	mg/kg	0	mg/kg	<1	3.8	7.1	<1	<1	3.7	<1	5.7	<1	8.2	3.7	1.0	3.4	8.4	1.2		40.9	<1	3.8	5.4	1.5	14.4	2.1	25.4
Cadmium	190	Commercial	mg/kg	0	mg/kg	0.2	0.9	2.3	0.1	0.2	1.6	10.3	1.4	0.2	1.5	0.7	0.5	1.3	<0.0008	0.7		1.4	0.2	2.1	0.7	<0.02	<0.02	0.4	1.2
Chromium	8570	Commercial	mg/kg	1	mg/kg	27.0	13.0	16.5	17.1	16.2	30.8	24.6	38.4	6.3	21.3	24.5	20.1	63.4	0.1	23.7		41.7	15.7	19.0	10.5	10.2	26.7	20.8	23.4
Copper	44400	POS PARK	mg/kg	2	mg/kg	20.1	16.7	179.0	21.6	22.3	140.0	172.0	306.0	10.0	170.0	35.4	28.6	271.0	0.0	22.6		135.0	19.5	34.7	56.9	145.0	22.7	34.7	105.0
Vanadium	2820	POS Maintenance	mg/kg	0	mg/kg	41.3	0.3	51.2	42.5	29.9	14.3	19.6	40.0	11.0	41.6	35.2	44.2	43.6	<0.01	45.8		47.5	34.7	47.7	25.7	42.3	58.8	54.0	45.1
Zinc	173000	POS PARK	mg/kg	0	mg/kg	80.2	1850.0	2640.0	83.0	86.1	257.0	93.8	1640.0	45.0	585.0	183.0	159.0	510.0	0.2	80.1		799.0	57.6	208.0	158.0	195.0	83.0	436.0	377.0
Selenium	1850	POS PARK	mg/kg	0	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.01	<1		<10	<1	<1	<1	<1	<1	<1	<1
Acenaphthene	28900	POS PARK	mg/kg	0	mg/kg																								
Phenanthrene	6170	POS PARK	mg/kg	0	mg/kg																								
Fluorene	19600	POS PARK	mg/kg	0	mg/kg																								
Napthalene	193	Commercial	mg/kg	0	mg/kg																								
Phenol (Monohydric)	7600	POS Maintenance	mg/kg	0	mg/kg	<0.035	10.6	0.2	<0.035	<0.035	3.1	370.0	1.5	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035		<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035
Aromatics >C7-8	56293.7	Commercial	mg/kg	0	mg/kg																								
Aromatics >C8-10	3460	Commercial	mg/kg	0	mg/kg																								
Aromatics >C10-12	9240	POS PARK	mg/kg	0	mg/kg																								
Aromatics >C12-16	10200	POS PARK	mg/kg	0	mg/kg																								
Aromatics >C16-21	7630	POS PARK	mg/kg	0	mg/kg																								
Aromatics >C21-35	7820	POS PARK	mg/kg	0	mg/kg																								
Aliphatics >C5-6	3190	Commercial	mg/kg	0	mg/kg																								
Aliphatics >C6-8	7780	Commercial	mg/kg	0	mg/kg																								
Aliphatics >C8-10	2000	Commercial	mg/kg	0	mg/kg																								
Aliphatics >C10-12	9690	Commercial	mg/kg	0	mg/kg																								
Aliphatics >C12-16	24700	POS PARK	mg/kg	0	mg/kg																								
Aliphatics >C16-21	455000	POS PARK	mg/kg	0	mg/kg																								
Aliphatics >C21-35	455000	POS PARK	mg/kg	0	mg/kg																								
Aromatics >C5-7	27	Commercial	mg/kg	0	mg/kg																								
4-Nitroaniline	10.8	POS PARK	mg/kg	0	mg/kg																								
4-Nitrophenol	7600	POS PARK	mg/kg	0	mg/kg																								
Styrene	3170	Commercial	mg/kg	0	mg/kg																								
Azobenzene	10.8	POS PARK	mg/kg	0	mg/kg																								

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	AEC18-LF-GW203B	AEC18-LF-GW203B	AEC18-LF-GW203B	AEC18-LF-GW204	AEC18-LF-GW204A	AEC18-LF-GW204A	AEC18-LF-GW204A	AEC18-LF-GW204A	AEC18-LF-GW205A	AEC18-LF-GW205A	AEC18-LF-GW205A	AEC18-LF-GW206	AEC18-LF-GW206	AEC18-LF-GW206	AEC18-LF-GW207A	AEC18-LF-GW207A	AEC18-LF-GW207A	AEC18-LF-GW207A	AEC18-LF-LW201	AEC18-LF-LW201	AEC18-LF-LW202	AEC18-LF-LW202	AEC18-LF-LW202	AEC18-LF-LW202	AEC18-LF-LW202
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
n-propylbenzene	3860	Commercial	mg/kg	0	mg/kg																									
n-Butylbenzene	26.598	Commercial	mg/kg	0	mg/kg																									
2,4-Dimethylphenol	9180	POS PARK	mg/kg	0	mg/kg																									
3/4 Methylphenol	46000	POS PARK	mg/kg	0	mg/kg																									
1,4-Dichlorobenzene	4220	Commercial	mg/kg	0	mg/kg																									
1,2-Dichloroethane	0.671	Commercial	mg/kg	0	mg/kg																									
1,3,5-Trimethylbenzene	39.4	Commercial	mg/kg	0	mg/kg																									
Bromobenzene	91.5	Commercial	mg/kg	0	mg/kg																									
Chlorobenzene	55.6	Commercial	mg/kg	0	mg/kg																									
Phenol	7600	POS PARK	mg/kg	0	mg/kg	<0.01	2.1	<0.01	<0.01	<0.01	0.3	369.0	1.5	<0.01	<0.01	<0.01	0.0	<0.01	<0.01	<0.01		0.0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05
Bis(2-chloroethoxy)methane	0.956	Commercial	mg/kg	0	mg/kg																									
Bis(2-ethylhexyl)phthalate	16600	POS PARK	mg/kg	0	mg/kg																									
Di-N-Octyl Phthalate	20000	POS PARK	mg/kg	0	mg/kg																									
Hexachlorobenzene (HCB)	28.9	POS PARK	mg/kg	0	mg/kg																									
1,2,4-Trichlorobenzene	215	Commercial	mg/kg	0	mg/kg																									
2,4-Dichlorophenol	977	POS PARK	mg/kg	0	mg/kg																									
2,4-Dinitrotoluene	928	POS PARK	mg/kg	0	mg/kg																									
Dibromochloromethane	1.96	Commercial	mg/kg	0	mg/kg																									
Tetrachloroethene	18.6	Commercial	mg/kg	0	mg/kg																									
Dimethylphthalate	2630	POS PARK	mg/kg	0	mg/kg																									
Dibenzofuran	10.8	POS PARK	mg/kg	0	mg/kg																									
Sec-Butylbenzene	26.6	Commercial	mg/kg	0	mg/kg																									
cis-1,2-Dichloroethene	13.6	Commercial	mg/kg	0	mg/kg																									
trans-1,2-Dichloroethene	20.7	Commercial	mg/kg	0	mg/kg																									
Methyl tert-butyl ether (MTBE)	7480	Commercial	mg/kg	0	mg/kg																									
1,3-Dichlorobenzene	29.9	Commercial	mg/kg	0	mg/kg																									
Tetrachloromethane (Carbon Tetra Chloride)	2.87	Commercial	mg/kg	0	mg/kg																									
2,3,4,6-Tetrachlorophenol	1000	POS PARK	mg/kg	0	mg/kg																									
4-Chloro-3-Methylphenol	46100	POS PARK	mg/kg	0	mg/kg																									
2,6-Dinitrotoluene	468	POS PARK	mg/kg	0	mg/kg																									
1,1,1,2-Tetrachloroethane	108	Commercial	mg/kg	0	mg/kg																									
Chloroform	99.1	Commercial	mg/kg	0	mg/kg																									
1,1,1-Trichloroethane	660	Commercial	mg/kg	0	mg/kg																									
Chloroethene	0.0594	Commercial	mg/kg	0	mg/kg																									
Tribromomethane	714	Commercial	mg/kg	0	mg/kg																									
Bromodichloromethane	1.96	Commercial	mg/kg	0	mg/kg																									
1,1-Dichloroethane	263	Commercial	mg/kg	0	mg/kg																									
1,1-Dichloroethene	24.3	Commercial	mg/kg	0	mg/kg																									
1,2-Dichloropropane	3.13	Commercial	mg/kg	0	mg/kg																									
1,1,2-Trichloroethane	89.1	Commercial	mg/kg	0	mg/kg																									
Trichloroethene	1.23	Commercial	mg/kg	0	mg/kg																									
Diethylphthalate	89300	POS PARK	mg/kg	0	mg/kg																									
Di-N-Butyl Phthalate	2630	POS PARK	mg/kg	0	mg/kg																									
Butylbenzylphthalate	254000	POS PARK	mg/kg	0	mg/kg																									
Carbazole	10.8	POS PARK	mg/kg	0	mg/kg																									
1,2,3 Trichlorobenzene	102	Commercial	mg/kg	0	mg/kg																									
Hexachlorobutadiene (HCBd)	30.7	Commercial	mg/kg	0	mg/kg																									
Pentachlorophenol (PCP)	113	POS PARK	mg/kg	0	mg/kg																									
2,4,6-Trichlorophenol	1010	POS PARK	mg/kg	0	mg/kg																									
2-Nitroaniline	10.8	POS PARK	mg/kg	0	mg/kg																									
2-Methylnaphthalene	193	Commercial	mg/kg	0	mg/kg																									
2-Chloronaphthalene	370	Commercial	mg/kg	0	mg/kg																									
2,3,5,6-Tetrachlorophenol	1000	POS PARK	mg/kg	0	mg/kg																									

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	AEC18-LF-GW203B	AEC18-LF-GW203B	AEC18-LF-GW203B	AEC18-LF-GW204	AEC18-LF-GW204A	AEC18-LF-GW204A	AEC18-LF-GW204A	AEC18-LF-GW204A	AEC18-LF-GW205A	AEC18-LF-GW205A	AEC18-LF-GW205A	AEC18-LF-GW206	AEC18-LF-GW206	AEC18-LF-GW206	AEC18-LF-GW207A	AEC18-LF-GW207A	AEC18-LF-GW207A	AEC18-LF-GW207A	AEC18-LF-LW201	AEC18-LF-LW201	AEC18-LF-LW202	AEC18-LF-LW202	AEC18-LF-LW202	AEC18-LF-LW202
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
O-Xylene	6603.1	Commercial	mg/kg	0	mg/kg																								
2-Methylphenol	46100	POS PARK	mg/kg	0	mg/kg																								
1,2-Dichlorobenzene	2020	Commercial	mg/kg	0	mg/kg																								
2-Chlorophenol	1010	POS PARK	mg/kg	0	mg/kg																								
1,2,4-Trimethylbenzene	39.4	Commercial	mg/kg	0	mg/kg																								
2,4,5-Trichlorophenol	1010	POS PARK	mg/kg	0	mg/kg																								
Isopropylbenzene	1300	Commercial	mg/kg	0	mg/kg																								
4-Isopropyltoluene	1300	Commercial	mg/kg	0	mg/kg																								
m,p xylenes	5923.3	Commercial	mg/kg	0	mg/kg																								
Chromium - Hexavalent	220	POS PARK	mg/kg	0	mg/kg																								
Cyanide Free	168	Commercial	mg/kg	0	mg/kg																								
Complex Cyanide	3460	POS PARK	mg/kg	0	mg/kg																								
4-Nitrophenol	7600000	POS PARK	ug/kg	0	ug/kg																								
Ethylbenzene	5705504.8	Commercial	ug/kg	0	ug/kg																								
Styrene	3170000	Commercial	ug/kg	0	ug/kg																								
n-Propylbenzene	3860000	Commercial	ug/kg	0	ug/kg																								
n-Butylbenzene	26597.9	Commercial	ug/kg	0	ug/kg																								
2,4-Dimethylphenol	9180000	POS PARK	ug/kg	0	ug/kg																								
4-Methylphenol	46000000	POS PARK	ug/kg	0	ug/kg																								
1,4-Dichlorobenzene	4220000	Commercial	ug/kg	0	ug/kg																								
1,2-Dichloroethane	671	Commercial	ug/kg	0	ug/kg																								
1,3,5-Trimethylbenzene	39400	Commercial	ug/kg	3	ug/kg																								
Bromobenzene	91500	Commercial	ug/kg	0	ug/kg																								
Toluene VOC	56293712.79	Commercial	ug/kg	0	ug/kg																								
Chlorobenzene	55600	Commercial	ug/kg	0	ug/kg																								
Phenol SVOC	7600000	POS PARK	ug/kg	0	ug/kg																								
Bis(2-chloroethoxy)methane	956	Commercial	ug/kg	1	ug/kg																								
Bis(2-ethylhexyl)phthalate	16600000	POS PARK	ug/kg	0	ug/kg																								
n-Diethylphthalate	20000000	POS PARK	ug/kg	0	ug/kg																								
Hexachlorobenzene	28900	POS PARK	ug/kg	0	ug/kg																								
1,2,4-Trichlorobenzene	215000	Commercial	ug/kg	0	ug/kg																								
2,4-Dichlorophenol	977000	POS PARK	ug/kg	0	ug/kg																								
2,4-Dinitrotoluene	928000	POS PARK	ug/kg	0	ug/kg																								
Dibromochloromethane	1960	Commercial	ug/kg	0	ug/kg																								
Tetrachloroethene	18600	Commercial	ug/kg	0	ug/kg																								
Dimethyl phthalate	2630000	POS PARK	ug/kg	0	ug/kg																								
Dibenzofuran	10800	POS PARK	ug/kg	5	ug/kg																								
sec-Butylbenzene	26597.8811	Commercial	ug/kg	0	ug/kg																								
cis 1,2-Dichloroethene	13600	Commercial	ug/kg	0	ug/kg																								
trans 1,2-Dichloroethene	20700	Commercial	ug/kg	0	ug/kg																								
Perylene	10800000	POS PARK	ug/kg	0	ug/kg																								
1,3-Dichlorobenzene	29900	Commercial	ug/kg	0	ug/kg																								
Carbon Tetrachloride	2870	Commercial	ug/kg	0	ug/kg																								
4-Chloro-3-methylphenol	46100000	POS PARK	ug/kg	0	ug/kg																								
2,6-Dinitrotoluene	468000	POS PARK	ug/kg	0	ug/kg																								
1,1,1,2-Tetrachloroethane	108000	Commercial	ug/kg	0	ug/kg																								
Chloroform	99100	Commercial	ug/kg	0	ug/kg																								
Hexachloroethane	20900000	Commercial	ug/kg	0	ug/kg																								
Benzene VOC	26597.9	Commercial	ug/kg	0	ug/kg																								
1,1,1-Trichloroethane	660000	Commercial	ug/kg	0	ug/kg																								
Barium	5770	POS PARK	mg/kg	0	mg/kg																								
Chloromethane	956000	Commercial	ug/kg	0	ug/kg																								
Chloroethane	904000000	Commercial	ug/kg	0	ug/kg																								

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Sample Type	Hole Ref	AEC18-LF-GW203B	AEC18-LF-GW203B	AEC18-LF-GW203B	AEC18-LF-GW204	AEC18-LF-GW204A	AEC18-LF-GW204A	AEC18-LF-GW204A	AEC18-LF-GW204A	AEC18-LF-GW205A	AEC18-LF-GW205A	AEC18-LF-GW205A	AEC18-LF-GW206	AEC18-LF-GW206	AEC18-LF-GW206	AEC18-LF-GW207A	AEC18-LF-GW207A	AEC18-LF-GW207A	AEC18-LF-GW207A	AEC18-LF-LW201	AEC18-LF-LW201	AEC18-LF-LW202	AEC18-LF-LW202	AEC18-LF-LW202	AEC18-LF-LW202		
						Sample Top	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref
Vinyl Chloride	59.4	Commercial	ug/kg	0	ug/kg			<120				<120								<120		<6	<120			<60				<120		
Dichloromethane VOC	257000000	Commercial	ug/kg	0	ug/kg			<200				<200								<200		<10	<200			<100				<200		
Carbon Disulphide	11000000	Commercial	ug/kg	0	ug/kg			<140				<140								<140		<7	<140			<70				<140		
Bromoform	714000	Commercial	ug/kg	0	ug/kg			<200				<200								<200		<10	<200			<100				<200		
Bromodichloromethane	1960	Commercial	ug/kg	0	ug/kg			<140				<140								<140		<7	<140			<70				<140		
1,1-Dichloroethane	263000	Commercial	ug/kg	0	ug/kg			<160				<160								<160		<8	<160			<80				<160		
1,1-Dichloroethene	24300	Commercial	ug/kg	0	ug/kg			<200				<200								<200		<10	<200			<100				<200		
Isophorone	26597881.1	Commercial	ug/kg	0	ug/kg			<1000				<500								<100		<100	<100			<100				<100		
1,2-Dichloropropane	3130	Commercial	ug/kg	0	ug/kg			<200				<200								<200		<10	<200			<100				<200		
1,1,2-Trichloroethane	89100	Commercial	ug/kg	0	ug/kg			<200				<200								<200		<10	<200			<100				<200		
Trichloroethene	1230	Commercial	ug/kg	0	ug/kg			<180				<180								<180		<9	<180			<90				<180		
1,1,2,2-Tetrachloroethane	274000000	Commercial	ug/kg	0	ug/kg			<200				<200								<200		<10	<200			<100				<200		
Diethyl phthalate	89300000	POS PARK	ug/kg	0	ug/kg			1520.0				<500								<100		<100	<100			<100				<100		
n-Dibutylphthalate	2630000	POS PARK	ug/kg	0	ug/kg			<1000				2060.0								<100		<100	182.0			<100				649.0		
Butylbenzyl phthalate SVOC	254000000	POS PARK	ug/kg	0	ug/kg			12200.0				<500								<100		<100	<100			<100				261.0		
Carbazole	10800	POS PARK	ug/kg	2	ug/kg			<1000				<500								<100		<100	<100			<100				429.0		
1,2,3-Trichlorobenzene	102000	Commercial	ug/kg	0	ug/kg			<400				<400								<400		<20	<400			<200				<400		
Hexachlorobutadiene	30700	Commercial	ug/kg	0	ug/kg			<1000				<400								<100		<100	<100			<100				<100		
Pentachlorophenol	113000	POS PARK	ug/kg	0	ug/kg			<1000				<500								<100		<100	<100			<100				<100		
2,4,6-Trichlorophenol	1010000	POS PARK	ug/kg	0	ug/kg			<1000				<500								<100		<100	<100			<100				<100		
2-Nitrophenol	7600000000	POS PARK	ug/kg	0	ug/kg			<1000				<500								<100		<100	<100			<100				<100		
2-Methylnaphthalene (SVOC) DEFAULT	193000	Commercial	ug/kg	2	ug/kg			425000.0				<500								<100		<100	<100			<100				245.0		
2-Chloronaphthalene	370000	Commercial	ug/kg	0	ug/kg			<1000				<500								<100		<100	<100			<100				<100		
o-Xylene	6603100.7	Commercial	ug/kg	0	ug/kg			730000.0	948.0			<200			<100	<10				<200	<200	<10	<200		17.9	<100		<10	<10	<200		
2-Methylphenol	46100000	POS PARK	ug/kg	0	ug/kg			<1000				<500								<100		<100	<100			<100				<100		
1,2-Dichlorobenzene	2020000	Commercial	ug/kg	0	ug/kg			<1000				<200								<100		<10	<100			<100				<100		
2-Chlorophenol	1010000	POS PARK	ug/kg	0	ug/kg			<1000				<500								<100		<100	<100			<100				<100		
1,2,4-Trimethylbenzene	39400	Commercial	ug/kg	5	ug/kg			5570000.0				4720.0								<180		<9	<180		345.0				<180			
2,4,5-Trichlorophenol	1010000	POS PARK	ug/kg	0	ug/kg			<1000				<500								<100		<100	<100			<100				<100		
Isopropylbenzene	1300000	Commercial	ug/kg	0	ug/kg			5690.0				315.0								<100		<5	<100			<50				<100		
Nitrobenzene	26597881.1	Commercial	ug/kg	0	ug/kg			<1000				<500								<100		<100	<100			<100				<100		
4-Isopropyltoluene	1300000	Commercial	ug/kg	0	ug/kg			3750.0				<200								<200		<10	<200			<100				<200		
m & p Xylene	5923262.7	Commercial	ug/kg	0	ug/kg			2910000.0	6430.0			2180.0			<100	<10				<200	<200	<10	<200		114.0	306.0		<10	73.8	<200		
Aro >C8-C9	7220	POS PARK	mg/kg	0	mg/kg																											
Aro >C9-C10	7220	POS PARK	mg/kg	0	mg/kg																											
Tributyltin SUBCON I2	42400000	POS PARK	ug/kg	0	ug/kg																											
Atrazine SUBCON Alcontrol	379000000	POS Maintenance	ug/kg	0	ug/kg																											
Aldrin SUBCON Alcontrol	7800000	POS PARK	ug/kg	0	ug/kg																<1000					<50						
alpha-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	46500000	POS PARK	ug/kg	0	ug/kg																<1000					<50						
beta-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	13300000	POS PARK	ug/kg	0	ug/kg																<1000					<50						
Endosulphan II	1960000000	POS Maintenance	ug/kg	0	ug/kg																<1000					<50						
Dieldrin SUBCON Alcontrol	12900000	POS PARK	ug/kg	0	ug/kg																<1000					<50						
Dichlorvos	26000000	POS PARK	ug/kg	0	ug/kg																<1000					<50						
Endosulphan I	1950000000	POS Maintenance	ug/kg	0	ug/kg																<1000					<50						
Aro >C35-C44	7820	POS PARK	mg/kg	0	mg/kg																											
Ali >C35-C44	455000	POS PARK	mg/kg	0	mg/kg																											
Anthracene SVOC	149000000	POS PARK	ug/kg	0	ug/kg			1380.0	410.0			<500			197.0	140.0				<16	176.0	<100	244.0		112.0	436.0		<16	<160	1240.0		
Pyrene SVOC	15100000	POS PARK	ug/kg	0	ug/kg			2690.0	1370.0			<500			1580.0	641.0				47.8	3780.0	<100	1120.0		442.0	2560.0		<15	860.0	7320.0		
Benzo(ghi)perylene SVOC	612000	POS Maintenance	ug/kg	0	ug/kg			<1000	246.0			<500			555.0	272.0				<24	1730.0	<100	<100		121.0	408.0		<24	350.0	3660.0		
Indeno(1,2,3-cd)pyrene SVOC	44000	POS Maintenance	ug/kg	1	ug/kg			<1000	177.0			<500			524.0	272.0				<18	1750.0	<100	390.0		87.1	488.0		<18	263.0	3150.0		
Benzo(b)fluoranthene SVOC	13200	POS PARK	ug/kg	7	ug/kg			<1000	461.0			<																				

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Sample Type	Hole Ref	AEC18-LF-GW203B	AEC18-LF-GW203B	AEC18-LF-GW203B	AEC18-LF-GW204	AEC18-LF-GW204A	AEC18-LF-GW204A	AEC18-LF-GW204A	AEC18-LF-GW204A	AEC18-LF-GW205A	AEC18-LF-GW205A	AEC18-LF-GW205A	AEC18-LF-GW206	AEC18-LF-GW206	AEC18-LF-GW206	AEC18-LF-GW207A	AEC18-LF-GW207A	AEC18-LF-GW207A	AEC18-LF-GW207A	AEC18-LF-LW201	AEC18-LF-LW201	AEC18-LF-LW202	AEC18-LF-LW202	AEC18-LF-LW202	AEC18-LF-LW202			
						Sample Top	Sample Ref	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Benzo(k)fluoranthene SVOC	114000	POS Maintenance	ug/kg	0	ug/kg			<1000	178.0						336.0	169.0			<14	924.0			<100	494.0			92.5	547.0			<14	<140	2080.0
Acenaphthylene SVOC	28900000	POS PARK	ug/kg	0	ug/kg			3610.0	38.0						85.4	21.7			<12	<100			<100	<100			<12	<100			<12	<120	<120
Chrysene SVOC	91000	POS Maintenance	ug/kg	1	ug/kg			<1000	483.0						713.0	308.0			24.8	985.0			<10	624.0			144.0	768.0			<10	495.0	3000.0
Benzo(a)pyrene SVOC	10800	POS PARK	ug/kg	8	ug/kg			<1000	335.0						741.0	379.0			22.0	1340.0			<100	507.0			142.0	795.0			<15	355.0	4530.0
Dibenzo(ah)anthracene SVOC	1150	POS PARK	ug/kg	10	ug/kg			<1000	60.6						<115	52.0			<23	<100			<100	<100			<23	<100			<23	<230	518.0
Benzo(a)anthracene SVOC	48800	POS PARK	ug/kg	2	ug/kg			<1000	465.0						701.0	358.0			20.8	956.0			<100	663.0			132.0	898.0			<14	397.0	2940.0
Acenaphthene SVOC	28900000	POS PARK	ug/kg	0	ug/kg			7080.0	2540.0						77.2	31.2			<8	<100			<100	<100			170.0	290.0			<8	<80	1360.0
Phenanthrene SVOC	6170000	POS PARK	ug/kg	0	ug/kg			3710.0	2460.0						881.0	219.0			37.4	603.0			<100	506.0			470.0	1450.0			<15	723.0	2440.0
Fluorene SVOC	19600000	POS PARK	ug/kg	0	ug/kg			<1000	1420.0						103.0	25.0			<10	<100			<10	<100			138.0	323.0			<10	151.0	633.0
Naphthalene SVOC	193000	Commercial	ug/kg	1	ug/kg			285000.0	1810.0						60.7	21.5			<9	<100			<100	<100			62.5	<100			<9	<90	<260
Xylenols	9180	POS PARK	mg/kg	0	mg/kg			<0.015	0.8	0.1	<0.015	<0.015	0.4	<0.75	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	0.0	<0.075	
Cresols	46100	POS PARK	mg/kg	0	mg/kg			<0.01	7.7	0.1	<0.01	<0.01	2.4	0.9	0.0	<0.01	<0.01	<0.01	<0.01	0.0	<0.01	<0.01		0.0	<0.01	<0.01	0.0	<0.01	<0.01	<0.01	<0.01	<0.05	
Tributyltin	42400	POS PARK	mg/kg	0	mg/kg																						<0.02						
Methyl tert-butyl ether (MTBE)	7480000	Commercial	ug/kg	0	ug/kg			<200	<10						<100					<200			<10	<200			<100					<200	
Aromatics >C6-7	27000000	Commercial	ug/kg	0	ug/kg				<50						<10					<10			<10	<10			<10					<10	
Aromatics >C7-8	56293712.8	Commercial	ug/kg	0	ug/kg				<50						11.7					<10			<10	<10			<10					<10	
Aromatics >C8-10	3460000	Commercial	ug/kg	0	ug/kg				9840.0						956.0						315.0		<10	884.0			3960.0						403.0
Aromatics >C10-12	9240000	POS PARK	ug/kg	0	ug/kg				6210.0						1580.0						434.0		<10	1300.0			3540.0						304.0
Aromatics >C12-16	10200000	POS PARK	ug/kg	0	ug/kg			2750000.0	9790.0						1360.0						2790.0		<100	3750.0			72700.0						20100.0
Aromatics >C16-21	7630000	POS PARK	ug/kg	0	ug/kg			485000.0	39600.0						21600.0						33800.0		<100	57000.0			143000.0						103000.0
Aromatics >C21-35	7820000	POS PARK	ug/kg	1	ug/kg			1770000.0	186000.0						111000.0						325000.0		<100	577000.0			366000.0						870000.0
Aromatics >C35-44	7820000	POS PARK	ug/kg	0	ug/kg			266000.0	57300.0						40800.0						98500.0		<100	66100.0			81200.0						381000.0
Aliphatics >C5-6	3190000	Commercial	ug/kg	0	ug/kg				<50						31.2						23.5		<10	24.7			29.1						46.4
Aliphatics >C6-8	7780000	Commercial	ug/kg	0	ug/kg				636.0						156.0						82.3		<10	120.0			557.0						274.0
Aliphatics >C8-10	2000000	Commercial	ug/kg	1	ug/kg				14800.0						1430.0						472.0		<10	1320.0			5940.0						603.0
Aliphatics >C10-12	9690000	Commercial	ug/kg	0	ug/kg				9310.0						2370.0						651.0		<10	1960.0			5310.0						454.0
Aliphatics >C12-16	24700000	POS PARK	ug/kg	0	ug/kg			2230000.0	15400.0						1380.0						13100.0		<100	12700.0			819000.0						5360.0
Aliphatics >C16-21	455000000	POS PARK	ug/kg	0	ug/kg			1250000.0	59500.0						11500.0						35300.0		<100	81600.0			174000.0						63700.0
Aliphatics >C21-35	455000000	POS PARK	ug/kg	0	ug/kg			2550000.0	266000.0						103000.0						306000.0		<100	426000.0			290000.0						740000.0
Aliphatics >C35-44	455000000	POS PARK	ug/kg	0	ug/kg			396000.0	48500.0						23600.0						75700.0		<100	71900.0			63500.0						250000.0
Trivalent Chromium	33000	POS PARK	mg/kg	0	mg/kg																<0.3												
Molybdenum	2890	POS PARK	mg/kg	0	mg/kg																0.2												
4-Nitroaniline	10800	POS PARK	ug/kg	0	ug/kg			<1000													<100		<100	<100			<100						<100
Azobenzene	10800	POS PARK	ug/kg	0	ug/kg			<1000													<100		<100	<100			<100						<100
4-Chloroaniline	10800000	POS PARK	ug/kg	0	ug/kg			<1000													<100		<100	<100			<100						<100
2-Nitroaniline	10800	POS PARK	ug/kg	0	ug/kg			<1000													<100		<100	<100			<100						<100

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	AEC18-LF-LW203	AEC18-LF-LW203	AEC18-LF-LW203	AEC18-LF-LW204	AEC18-LF-LW204	AEC18-LF-LW204	AEC18-LF-LW205	AEC18-LF-LW205	PF20	PF35A	PF47	PF56	PF60	PF61	PFPC01	PFPC04	PFPC04	PFPC10	PFPC12	PFPC15	PFPC16	PFPC17	PFPC17	PFPC21	
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
n-propylbenzene	3860	Commercial	mg/kg	0	mg/kg																									
n-Butylbenzene	26.598	Commercial	mg/kg	0	mg/kg																									
2,4-Dimethylphenol	9180	POS PARK	mg/kg	0	mg/kg																									
3/4 Methylphenol	46000	POS PARK	mg/kg	0	mg/kg																									
1,4-Dichlorobenzene	4220	Commercial	mg/kg	0	mg/kg																									
1,2-Dichloroethane	0.671	Commercial	mg/kg	0	mg/kg																									
1,3,5-Trimethylbenzene	39.4	Commercial	mg/kg	0	mg/kg																									
Bromobenzene	91.5	Commercial	mg/kg	0	mg/kg																									
Chlorobenzene	55.6	Commercial	mg/kg	0	mg/kg																									
Phenol	7600	POS PARK	mg/kg	0	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01																	
Bis(2-chloroethoxy)methane	0.956	Commercial	mg/kg	0	mg/kg																									
Bis(2-ethylhexyl)phthalate	16600	POS PARK	mg/kg	0	mg/kg																									
Di-N-Octyl Phthalate	20000	POS PARK	mg/kg	0	mg/kg																									
Hexachlorobenzene (HCB)	28.9	POS PARK	mg/kg	0	mg/kg																									
1,2,4-Trichlorobenzene	215	Commercial	mg/kg	0	mg/kg																									
2,4-Dichlorophenol	977	POS PARK	mg/kg	0	mg/kg																									
2,4-Dinitrotoluene	928	POS PARK	mg/kg	0	mg/kg																									
Dibromochloromethane	1.96	Commercial	mg/kg	0	mg/kg																									
Tetrachloroethene	18.6	Commercial	mg/kg	0	mg/kg																									
Dimethylphthalate	2630	POS PARK	mg/kg	0	mg/kg																									
Dibenzofuran	10.8	POS PARK	mg/kg	0	mg/kg																									
Sec-Butylbenzene	26.6	Commercial	mg/kg	0	mg/kg																									
cis-1,2-Dichloroethene	13.6	Commercial	mg/kg	0	mg/kg																									
trans-1,2-Dichloroethene	20.7	Commercial	mg/kg	0	mg/kg																									
Methyl tert-butyl ether (MTBE)	7480	Commercial	mg/kg	0	mg/kg									<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
1,3-Dichlorobenzene	29.9	Commercial	mg/kg	0	mg/kg																									
Tetrachloromethane (Carbon Tetra Chloride)	2.87	Commercial	mg/kg	0	mg/kg																									
2,3,4,6-Tetrachlorophenol	1000	POS PARK	mg/kg	0	mg/kg																									
4-Chloro-3-Methylphenol	46100	POS PARK	mg/kg	0	mg/kg																									
2,6-Dinitrotoluene	468	POS PARK	mg/kg	0	mg/kg																									
1,1,1,2-Tetrachloroethane	108	Commercial	mg/kg	0	mg/kg																									
Chloroform	99.1	Commercial	mg/kg	0	mg/kg																									
1,1,1-Trichloroethane	660	Commercial	mg/kg	0	mg/kg																									
Chloroethene	0.0594	Commercial	mg/kg	0	mg/kg																									
Tribromomethane	714	Commercial	mg/kg	0	mg/kg																									
Bromodichloromethane	1.96	Commercial	mg/kg	0	mg/kg																									
1,1-Dichloroethane	263	Commercial	mg/kg	0	mg/kg																									
1,1-Dichloroethene	24.3	Commercial	mg/kg	0	mg/kg																									
1,2-Dichloropropane	3.13	Commercial	mg/kg	0	mg/kg																									
1,1,2-Trichloroethane	89.1	Commercial	mg/kg	0	mg/kg																									
Trichloroethene	1.23	Commercial	mg/kg	0	mg/kg																									
Diethylphthalate	89300	POS PARK	mg/kg	0	mg/kg																									
Di-N-Butyl Phthalate	2630	POS PARK	mg/kg	0	mg/kg																									
Butylbenzylphthalate	254000	POS PARK	mg/kg	0	mg/kg																									
Carbazole	10.8	POS PARK	mg/kg	0	mg/kg																									
1,2,3 Trichlorobenzene	102	Commercial	mg/kg	0	mg/kg																									
Hexachlorobutadiene (HCBd)	30.7	Commercial	mg/kg	0	mg/kg																									
Pentachlorophenol (PCP)	113	POS PARK	mg/kg	0	mg/kg																									
2,4,6-Trichlorophenol	1010	POS PARK	mg/kg	0	mg/kg																									
2-Nitroaniline	10.8	POS PARK	mg/kg	0	mg/kg																									
2-Methylnaphthalene	193	Commercial	mg/kg	0	mg/kg																									
2-Chloronaphthalene	370	Commercial	mg/kg	0	mg/kg																									
2,3,5,6-Tetrachlorophenol	1000	POS PARK	mg/kg	0	mg/kg																									

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	AEC18-LF-LW203	AEC18-LF-LW203	AEC18-LF-LW203	AEC18-LF-LW204	AEC18-LF-LW204	AEC18-LF-LW204	AEC18-LF-LW205	AEC18-LF-LW205	PFPC20	PFPC35A	PFPC47	PFPC56	PFPC60	PFPC61	PFPCRC01	PFPCRC04	PFPCRC04	PFPCRC10	PFPCRC12	PFPCRC15	PFPCRC16	PFPCRC17	PFPCRC17	PFPCRC21	
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
O-Xylene	6603.1	Commercial	mg/kg	0	mg/kg									<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2-Methylphenol	46100	POS PARK	mg/kg	0	mg/kg																									
1,2-Dichlorobenzene	2020	Commercial	mg/kg	0	mg/kg																									
2-Chlorophenol	1010	POS PARK	mg/kg	0	mg/kg																									
1,2,4-Trimethylbenzene	39.4	Commercial	mg/kg	0	mg/kg																									
2,4,5-Trichlorophenol	1010	POS PARK	mg/kg	0	mg/kg		<0.01		<0.01																					
Isopropylbenzene	1300	Commercial	mg/kg	0	mg/kg																									
4-Isopropyltoluene	1300	Commercial	mg/kg	0	mg/kg																									
m,p xylenes	5923.3	Commercial	mg/kg	0	mg/kg									<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium - Hexavalent	220	POS PARK	mg/kg	0	mg/kg				<0.6				<0.6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cyanide Free	168	Commercial	mg/kg	0	mg/kg																									
Complex Cyanide	3460	POS PARK	mg/kg	0	mg/kg																									
4-Nitrophenol	7600000	POS PARK	ug/kg	0	ug/kg				<100		<100		<100																	
Ethylbenzene	5705504.8	Commercial	ug/kg	0	ug/kg		18.2	363.0	<4	<4	232.0	<4	<80																	
Styrene	3170000	Commercial	ug/kg	0	ug/kg				<10		<200		<200																	
n-Propylbenzene	3860000	Commercial	ug/kg	0	ug/kg				<10		4580.0		<200																	
n-Butylbenzene	26597.9	Commercial	ug/kg	0	ug/kg				<11		<220		<220																	
2,4-Dimethylphenol	9180000	POS PARK	ug/kg	0	ug/kg				<100		<100		<100																	
4-Methylphenol	46000000	POS PARK	ug/kg	0	ug/kg				<100		<100		<100																	
1,4-Dichlorobenzene	4220000	Commercial	ug/kg	0	ug/kg				<100		<100		<100																	
1,2-Dichloroethane	671	Commercial	ug/kg	0	ug/kg				<5		<100		<100																	
1,3,5-Trimethylbenzene	39400	Commercial	ug/kg	3	ug/kg				<8		19100.0		<160																	
Bromobenzene	91500	Commercial	ug/kg	0	ug/kg				<10		<200		<200																	
Toluene VOC	56293712.79	Commercial	ug/kg	0	ug/kg		<7	<140	<7	<7	<140	<7	<140																	
Chlorobenzene	55600	Commercial	ug/kg	0	ug/kg				<5		<100		<100																	
Phenol SVOC	7600000	POS PARK	ug/kg	0	ug/kg				<100		788.0		<100																	
Bis(2-chloroethoxy)methane	956	Commercial	ug/kg	1	ug/kg				<100		1890.0		<100																	
Bis(2-ethylhexyl)phthalate	16600000	POS PARK	ug/kg	0	ug/kg				<100		13300.0		<100																	
n-Diethylphthalate	20000000	POS PARK	ug/kg	0	ug/kg				<100		3010.0		<100																	
Hexachlorobenzene	28900	POS PARK	ug/kg	0	ug/kg		<50		<100		<100		<100																	
1,2,4-Trichlorobenzene	215000	Commercial	ug/kg	0	ug/kg				<100		<100		<100																	
2,4-Dichlorophenol	977000	POS PARK	ug/kg	0	ug/kg				<100		2060.0		<100																	
2,4-Dinitrotoluene	928000	POS PARK	ug/kg	0	ug/kg				<100		<100		<100																	
Dibromochloromethane	1960	Commercial	ug/kg	0	ug/kg				<10		<200		<200																	
Tetrachloroethene	18600	Commercial	ug/kg	0	ug/kg				<5		<100		<100																	
Dimethyl phthalate	2630000	POS PARK	ug/kg	0	ug/kg				<100		<100		<100																	
Dibenzofuran	10800	POS PARK	ug/kg	5	ug/kg				<100		832.0		<100																	
sec-Butylbenzene	26597.8811	Commercial	ug/kg	0	ug/kg				<10		6410.0		<200																	
cis 1,2-Dichloroethene	13600	Commercial	ug/kg	0	ug/kg				<6		<120		<120																	
trans 1,2-Dichloroethene	20700	Commercial	ug/kg	0	ug/kg				<10		<200		<200																	
Perylene	10800000	POS PARK	ug/kg	0	ug/kg																									
1,3-Dichlorobenzene	29900	Commercial	ug/kg	0	ug/kg				<100		<100		<100																	
Carbon Tetrachloride	2870	Commercial	ug/kg	0	ug/kg				<10		<200		<200																	
4-Chloro-3-methylphenol	46100000	POS PARK	ug/kg	0	ug/kg				<100		<100		<100																	
2,6-Dinitrotoluene	468000	POS PARK	ug/kg	0	ug/kg				<100		<100		<100																	
1,1,1,2-Tetrachloroethane	108000	Commercial	ug/kg	0	ug/kg				<10		<200		<200																	
Chloroform	99100	Commercial	ug/kg	0	ug/kg				<8		<160		<160																	
Hexachloroethane	20900000	Commercial	ug/kg	0	ug/kg				<100		<100		<100																	
Benzene VOC	26597.9	Commercial	ug/kg	0	ug/kg		<9	<180	<9	<9	<180	<9	<180																	
1,1,1-Trichloroethane	660000	Commercial	ug/kg	0	ug/kg				<7		<140		<140																	
Barium	5770	POS PARK	mg/kg	0	mg/kg									51.0	1180.0	84.0	77.0	67.0	919.0	89.0	94.0	134.0	88.0	363.0	1310.0	37.0	156.0	2160.0	925.0	
Chloromethane	956000	Commercial	ug/kg	0	ug/kg				<7		<140		<140																	
Chloroethane	904000000	Commercial	ug/kg	0	ug/kg				<10		<200		<200																	

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	AEC18-LF-LW203	AEC18-LF-LW203	AEC18-LF-LW203	AEC18-LF-LW204	AEC18-LF-LW204	AEC18-LF-LW204	AEC18-LF-LW205	AEC18-LF-LW205	PFCP20	PFCP35A	PFCP47	PFCP56	PFCP60	PFCP61	PFPCRC01	PFPCRC04	PFPCRC04	PFPCRC10	PFPCRC12	PFPCRC15	PFPCRC16	PFPCRC17	PFPCRC17	PFPCRC21	
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Vinyl Chloride	59.4	Commercial	ug/kg	0	ug/kg				<6				<120																	
Dichloromethane VOC	257000000	Commercial	ug/kg	0	ug/kg				<10				341.0																	
Carbon Disulphide	11000000	Commercial	ug/kg	0	ug/kg				<7				935.0																	
Bromoform	714000	Commercial	ug/kg	0	ug/kg				<10				<200																	
Bromodichloromethane	1960	Commercial	ug/kg	0	ug/kg				<7				<140																	
1,1-Dichloroethane	263000	Commercial	ug/kg	0	ug/kg				<8				<160																	
1,1-Dichloroethene	24300	Commercial	ug/kg	0	ug/kg				<10				<200																	
Isophorone	26597881.1	Commercial	ug/kg	0	ug/kg				<100				3120.0																	
1,2-Dichloropropane	3130	Commercial	ug/kg	0	ug/kg				<10				<200																	
1,1,2-Trichloroethane	89100	Commercial	ug/kg	0	ug/kg				<10				<200																	
Trichloroethene	1230	Commercial	ug/kg	0	ug/kg				<9				<180																	
1,1,2,2-Tetrachloroethane	274000000	Commercial	ug/kg	0	ug/kg				<10				<200																	
Diethyl phthalate	89300000	POS PARK	ug/kg	0	ug/kg				<100				<100																	
n-Dibutylphthalate	2630000	POS PARK	ug/kg	0	ug/kg				<100				12900.0																	
Butylbenzyl phthalate SVOC	254000000	POS PARK	ug/kg	0	ug/kg				<100				<100																	
Carbazole	10800	POS PARK	ug/kg	2	ug/kg				<100				<100																	
1,2,3-Trichlorobenzene	102000	Commercial	ug/kg	0	ug/kg				<20				<400																	
Hexachlorobutadiene	30700	Commercial	ug/kg	0	ug/kg				<100				<100																	
Pentachlorophenol	113000	POS PARK	ug/kg	0	ug/kg				<100				<100																	
2,4,6-Trichlorophenol	1010000	POS PARK	ug/kg	0	ug/kg				<100				<100																	
2-Nitrophenol	7600000000	POS PARK	ug/kg	0	ug/kg				<100				3390.0																	
2-Methylnaphthalene (SVOC) DEFAULT	193000	Commercial	ug/kg	2	ug/kg				<100				7900.0																	
2-Chloronaphthalene	370000	Commercial	ug/kg	0	ug/kg				<100				<100																	
o-Xylene	6603100.7	Commercial	ug/kg	0	ug/kg			<10	<200	<10	<10		1680.0	<10																
2-Methylphenol	46100000	POS PARK	ug/kg	0	ug/kg				<100				<100																	
1,2-Dichlorobenzene	2020000	Commercial	ug/kg	0	ug/kg				<10				<100																	
2-Chlorophenol	1010000	POS PARK	ug/kg	0	ug/kg				<100				<100																	
1,2,4-Trimethylbenzene	39400	Commercial	ug/kg	5	ug/kg				<9				58900.0																	
2,4,5-Trichlorophenol	1010000	POS PARK	ug/kg	0	ug/kg				<100				<100																	
Isopropylbenzene	1300000	Commercial	ug/kg	0	ug/kg				<5				2110.0																	
Nitrobenzene	26597881.1	Commercial	ug/kg	0	ug/kg				<100				<100																	
4-Isopropyltoluene	1300000	Commercial	ug/kg	0	ug/kg				<10				7540.0																	
m & p Xylene	5923262.7	Commercial	ug/kg	0	ug/kg			105.0	876.0	<10	<10		3090.0	<10																
Aro >C8-C9	7220	POS PARK	mg/kg	0	mg/kg									<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Aro >C9-C10	7220	POS PARK	mg/kg	0	mg/kg									<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Tributyltin SUBCON I2	42400000	POS PARK	ug/kg	0	ug/kg																									
Atrazine SUBCON Alcontrol	379000000	POS Maintenance	ug/kg	0	ug/kg																									
Aldrin SUBCON Alcontrol	7800000	POS PARK	ug/kg	0	ug/kg			<50	<50																					
alpha-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	46500000	POS PARK	ug/kg	0	ug/kg			<50	<50																					
beta-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	13300000	POS PARK	ug/kg	0	ug/kg			<50	<50																					
Endosulphan II	1960000000	POS Maintenance	ug/kg	0	ug/kg			<50	<50																					
Dieldrin SUBCON Alcontrol	12900000	POS PARK	ug/kg	0	ug/kg			<50	<50																					
Dichlorvos	26000000	POS PARK	ug/kg	0	ug/kg			<50	<50																					
Endosulphan I	1950000000	POS Maintenance	ug/kg	0	ug/kg			<50	<50																					
Aro >C35-C44	7820	POS PARK	mg/kg	0	mg/kg																									
Ali >C35-C44	455000	POS PARK	mg/kg	0	mg/kg																									
Anthracene SVOC	149000000	POS PARK	ug/kg	0	ug/kg			26.7	163.0	<100	<16		816.0	77.6																
Pyrene SVOC	15100000	POS PARK	ug/kg	0	ug/kg			123.0	901.0	<100	<15		1820.0	970.0	165.0															
Benzo(ghi)perylene SVOC	612000	POS Maintenance	ug/kg	0	ug/kg			52.6	404.0	<100	<24		<100	296.0	<100															
Indeno(1,2,3-cd)pyrene SVOC	44000	POS Maintenance	ug/kg	1	ug/kg			45.7	334.0	<100	<18		<100	295.0	<100															
Benzo(b)fluoranthene SVOC	13200	POS PARK	ug/kg	7	ug/kg			80.0	881.0	<100	<15		<100	488.0	<100															
Fluoranthene SVOC	6300000	POS PARK	ug/kg	0	ug/kg			140.0	1060.0	<100	<17		1530.0	1030.0	165.0															

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Sample Type	Hole Ref	AEC18-LF-LW203	AEC18-LF-LW203	AEC18-LF-LW203	AEC18-LF-LW204	AEC18-LF-LW204	AEC18-LF-LW204	AEC18-LF-LW205	AEC18-LF-LW205	PFCP20	PFCP35A	PFCP47	PFCP56	PFCP60	PFCP61	PFPCRC01	PFPCRC04	PFPCRC04	PFPCRC10	PFPCRC12	PFPCRC15	PFPCRC16	PFPCRC17	PFPCRC17	PFPCRC21		
						Sample Top	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref
Benzo(k)fluoranthene SVOC	114000	POS Maintenance	ug/kg	0	ug/kg			30.8	282.0	<100	<14	<100	212.0	<100																		
Acenaphthylene SVOC	28900000	POS PARK	ug/kg	0	ug/kg			<12	81.1	<100	<12	<12	<100																			
Chrysene SVOC	91000	POS Maintenance	ug/kg	1	ug/kg			44.7	495.0	<100	<10	<10	404.0	<100																		
Benzo(a)pyrene SVOC	10800	POS PARK	ug/kg	8	ug/kg			65.9	585.0	<100	<15	<100	488.0	<100																		
Dibenzo(ah)anthracene SVOC	1150	POS PARK	ug/kg	10	ug/kg			<23	84.3	<100	<23	<100	74.9	<100																		
Benzo(a)anthracene SVOC	48800	POS PARK	ug/kg	2	ug/kg			59.0	588.0	<100	<14	<14	503.0	<100																		
Acenaphthene SVOC	28900000	POS PARK	ug/kg	0	ug/kg			15.2	125.0	<100	<8	936.0	18.7	<100																		
Phenanthrene SVOC	6170000	POS PARK	ug/kg	0	ug/kg			101.0	585.0	<100	<15	12900.0	251.0	<100																		
Fluorene SVOC	19600000	POS PARK	ug/kg	0	ug/kg			19.7	163.0	<10	<10	1410.0	12.2	<10																		
Naphthalene SVOC	193000	Commercial	ug/kg	1	ug/kg			21.8	549.0	<100	<9	<260	<9	<100																		
Xylenols	9180	POS PARK	mg/kg	0	mg/kg			<0.015	<0.015	0.1	<0.015	<0.015	2.8	<0.015	<0.015																	
Cresols	46100	POS PARK	mg/kg	0	mg/kg			<0.01	<0.01	0.0	<0.01	<0.01	<0.05	<0.01	<0.01																	
Tributyltin	42400	POS PARK	mg/kg	0	mg/kg			<0.02		<0.02																						
Methyl tert-butyl ether (MTBE)	7480000	Commercial	ug/kg	0	ug/kg					<10	<10	<200	<10	<200																		
Aromatics >C6-7	27000000	Commercial	ug/kg	0	ug/kg					<10	<10	<200	<10																			
Aromatics >C7-8	56293712.8	Commercial	ug/kg	0	ug/kg					<10	<10	<200	<10																			
Aromatics >C8-10	3460000	Commercial	ug/kg	0	ug/kg					85.2	<10	279000.0	<10																			
Aromatics >C10-12	9240000	POS PARK	ug/kg	0	ug/kg					61.1	<10	434000.0	<10																			
Aromatics >C12-16	10200000	POS PARK	ug/kg	0	ug/kg					<100	<100	710000.0	<100																			
Aromatics >C16-21	7630000	POS PARK	ug/kg	0	ug/kg					3250.0	<100	2640000.0	3460.0																			
Aromatics >C21-35	7820000	POS PARK	ug/kg	1	ug/kg					18200.0	2640.0	10500000.0	22800.0																			
Aromatics >C35-44	7820000	POS PARK	ug/kg	0	ug/kg					5170.0	<100	1900000.0	15200.0																			
Aliphatics >C5-6	3190000	Commercial	ug/kg	0	ug/kg					<10	<10	582.0	<10																			
Aliphatics >C6-8	7780000	Commercial	ug/kg	0	ug/kg					46.9	<10	9590.0	<10																			
Aliphatics >C8-10	2000000	Commercial	ug/kg	1	ug/kg					128.0	<10	418000.0	<10																			
Aliphatics >C10-12	9690000	Commercial	ug/kg	0	ug/kg					92.3	<10	652000.0	<10																			
Aliphatics >C12-16	24700000	POS PARK	ug/kg	0	ug/kg					376.0	<100	6020000.0	<100																			
Aliphatics >C16-21	455000000	POS PARK	ug/kg	0	ug/kg					2180.0	<100	9660000.0	1960.0																			
Aliphatics >C21-35	455000000	POS PARK	ug/kg	0	ug/kg					12400.0	2530.0	69700000.0	12700.0																			
Aliphatics >C35-44	455000000	POS PARK	ug/kg	0	ug/kg					3970.0	<100	8400000.0	7960.0																			
Trivalent Chromium	33000	POS PARK	mg/kg	0	mg/kg																											
Molybdenum	2890	POS PARK	mg/kg	0	mg/kg																											
4-Nitroaniline	10800	POS PARK	ug/kg	0	ug/kg					<100		<100		<100																		
Azobenzene	10800	POS PARK	ug/kg	0	ug/kg					<100		<100		<100																		
4-Chloroaniline	10800000	POS PARK	ug/kg	0	ug/kg					<100		592.0		<100																		
2-Nitroaniline	10800	POS PARK	ug/kg	0	ug/kg					<100		<100		<100																		

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	PFCPRC22	PFCPRC22	PFCPRC23	PFCPRC23	PFCPRC23	PFCPRC23	PFCPRC24	PFCPRC24	PFCPRC25	PFCPRC25	PFCPRC25	PFCPRC25	PFCPRC26	PFCPRC26	PFCPRC26	PFCPRC26	PFCPRC27	PFCPRC27	PFCPRC27	PFCPRC28	PFCPRC28	PFCPRC28	PFCPRC28	PFCPRC29	PFCPRC29
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Ethylbenzene	5705.5	Commercial	mg/kg	0	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Toluene	56293.7	Commercial	mg/kg	0	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Anthracene	149000	POS PARK	mg/kg	0	mg/kg	0.1	0.1	0.1	0.1	0.0	0.1	0.0	0.2	<0.02	<0.02	<0.02	0.0	<0.05	<0.02	<0.02	0.6	0.0	0.0	0.0	<0.02	<0.02	<0.02	0.0	<0.02	
Pyrene	15100	POS PARK	mg/kg	0	mg/kg	0.7	0.3	0.2	0.6	0.2	0.2	0.9	2.3	<0.07	<0.07	0.1	0.1	0.4	<0.07	<0.07	2.0	0.2	0.2	0.4	<0.07	0.1	0.1	0.4	0.1	
Xylene	6603.1	Commercial	mg/kg	0	mg/kg																									
Benzo (g,h,i) perylene	612	POS Maintenance	mg/kg	0	mg/kg	0.3	0.1	<0.05	0.3	0.1	<0.05	0.2	1.5	<0.05	<0.05	<0.05	<0.05	0.1	<0.05	<0.05	1.3	0.1	<0.05	0.2	<0.05	0.1	<0.05	0.2	<0.05	
Indeno(1,2,3-cd)pyrene	44	POS Maintenance	mg/kg	0	mg/kg	0.4	0.1	0.0	0.3	0.1	0.1	0.2	1.5	<0.03	<0.03	0.1	<0.03	0.1	<0.03	<0.03	1.4	0.1	0.1	0.2	<0.03	0.1	0.1	0.2	<0.03	
Benzo(b)fluoranthene	13.2	POS PARK	mg/kg	4	mg/kg	0.5	0.2	0.1	0.5	0.1	0.1	0.4	1.8	<0.05	<0.05	0.1	<0.05	0.2	<0.05	<0.05	1.4	0.1	0.1	0.3	<0.05	0.1	<0.05	0.3	<0.05	
Fluoranthene	6300	POS PARK	mg/kg	0	mg/kg	0.9	0.4	0.2	0.6	0.2	0.2	0.4	2.6	<0.08	<0.08	0.1	0.1	0.4	<0.08	<0.08	2.4	0.2	0.2	0.4	<0.08	0.1	0.1	0.4	0.1	
Benzo(k)fluoranthene	114	POS Maintenance	mg/kg	0	mg/kg	0.2	<0.07	<0.07	0.3	<0.07	<0.07	0.2	0.6	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	0.9	0.1	<0.07	0.1	<0.07	<0.07	<0.07	0.2	<0.07	
Acenaphthylene	28900	POS PARK	mg/kg	0	mg/kg	0.0	<0.01	<0.01	0.0	<0.01	<0.01	0.0	0.0	<0.01	<0.01	<0.01	<0.01	<0.03	<0.01	<0.01	<0.10	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Chrysene	91	POS Maintenance	mg/kg	0	mg/kg	0.5	0.2	<0.06	0.4	0.1	0.1	0.4	1.2	<0.06	<0.06	0.1	0.1	0.3	<0.06	<0.06	1.4	0.2	0.1	0.3	<0.06	0.1	0.1	0.3	<0.06	
Benzo(a)pyrene	10.8	POS PARK	mg/kg	4	mg/kg	0.5	0.2	<0.04	0.4	0.1	0.1	0.3	1.4	<0.04	<0.04	<0.04	<0.04	0.2	<0.04	<0.04	1.5	0.1	0.1	0.2	<0.04	0.1	<0.04	0.2	<0.04	
Dibenz-a-h-anthracene	1.15	POS PARK	mg/kg	5	mg/kg	0.1	<0.04	<0.04	0.0	<0.04	<0.04	<0.04	0.2	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.40	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	
Benzo(a)anthracene	48.8	POS PARK	mg/kg	0	mg/kg	0.4	0.2	0.1	0.3	0.1	0.1	0.2	1.1	<0.04	<0.04	0.1	0.1	0.2	<0.04	<0.04	1.3	0.1	0.1	0.2	<0.04	0.1	0.1	0.2	<0.04	
Cyanide	24	POS PARK	mg/kg	5	mg/kg																									
Benzene	26.60	Commercial	mg/kg	0	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Lead	1300	POS PARK	mg/kg	13	mg/kg	31.0	13.0	20.0	40.0	34.0	12.0	31.0	241.0	23.0	33.0	38.0	44.0	20.0	8.0	31.0	53.0	22.0	36.0	32.0	35.0	431.0	25.0	39.0	31.0	
Mercury	244	POS PARK	mg/kg	0	mg/kg	0.9	0.8	0.6	0.3	0.8	0.9	0.7	1.9	<0.17	0.4	0.6	0.5	<0.17	0.6	0.5	0.4	1.0	1.0	1.1	1.3	5.3	0.7	0.6	0.8	
Nickel	804	POS PARK	mg/kg	8	mg/kg	49.0	9.0	19.0	28.0	11.0	7.0	11.0	50.0	18.0	16.0	23.0	31.0	19.0	8.0	13.0	18.0	9.0	23.0	11.0	15.0	67.0	14.0	16.0	9.0	
Antimony	3290	POS PARK	mg/kg	0	mg/kg																									
Arsenic	168	POS PARK	mg/kg	0	mg/kg	4.0	<1	3.0	7.0	2.0	<1	3.0	12.0	5.0	3.0	3.0	4.0	7.0	<1	2.0	2.0	2.0	3.0	3.0	3.0	11.0	4.0	5.0	<1	
Beryllium	11.7	Commercial	mg/kg	1	mg/kg	<1	<1	<1	1.0	<1	<1	1.0	2.0	1.0	<1	<1	1.0	1.0	<1	<1	1.0	<1	<1	<1	<1	<1	<1	1.0	<1	
Boron	46200	POS PARK	mg/kg	0	mg/kg	<1.0	<1.0	1.7	5.0	<1.0	<1.0	<1.0	4.8	<1.0	2.3	1.2	2.2	2.4	2.0	1.6	<1.0	<1.0	1.1	<1.0	1.8	15.8	1.1	<1.0	<1.0	
Cadmium	190	Commercial	mg/kg	0	mg/kg	1.0	<0.5	0.6	<0.5	0.8	<0.5	<0.5	2.9	2.2	0.9	0.7	1.0	2.2	<0.5	0.8	<0.5	<0.5	<0.5	1.1	0.8	10.6	1.0	1.5	0.6	
Chromium	8570	Commercial	mg/kg	1	mg/kg	20.0	8.0	15.0	29.0	13.0	6.0	13.0	55.0	41.0	11.0	21.0	24.0	36.0	7.0	14.0	26.0	12.0	24.0	14.0	14.0	114.0	12.0	21.0	10.0	
Copper	44400	POS PARK	mg/kg	2	mg/kg	20.0	20.0	46.0	27.0	21.0	7.0	18.0	121.0	13.0	32.0	32.0	39.0	12.0	7.0	27.0	28.0	35.0	46.0	30.0	29.0	294.0	29.0	29.0	19.0	
Vanadium	2820	POS Maintenance	mg/kg	0	mg/kg																									
Zinc	173000	POS PARK	mg/kg	0	mg/kg	81.0	30.0	35.0	85.0	142.0	29.0	69.0	429.0	41.0	103.0	57.0	58.0	39.0	23.0	65.0	68.0	72.0	76.0	82.0	66.0	1040.0	45.0	77.0	68.0	
Selenium	1850	POS PARK	mg/kg	0	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	2.0	<1	<1	<1
Acenaphthene	28900	POS PARK	mg/kg	0	mg/kg	0.1	<0.01	0.0	<0.01	<0.01	0.0	<0.01	0.1	<0.01	<0.01	0.0	0.0	0.1	<0.01	<0.01	<0.10	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.0	<0.01	<0.01
Phenanthrene	6170	POS PARK	mg/kg	0	mg/kg	0.4	0.2	0.1	0.2	0.1	0.2	0.1	0.9	<0.03	<0.03	0.1	0.1	0.4	<0.03	<0.03	0.8	0.1	0.1	0.1	<0.03	0.1	0.1	0.2	0.1	
Fluorene	19600	POS PARK	mg/kg	0	mg/kg	0.0	0.0	0.0	<0.01	<0.01	<0.01	<0.01	0.1	<0.01	<0.01	0.0	0.1	0.2	<0.01	<0.01	<0.10	<0.01	<0.01	<0.01	<0.01	<0.01	0.0	<0.01	<0.01	
Napthalene	193	Commercial	mg/kg	0	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.1	<0.03	<0.03	<0.03	<0.03	0.1	<0.03	<0.03	<0.30	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	
Phenol (Monohydric)	7600	POS Maintenance	mg/kg	0	mg/kg																									
Aromatics >C7-8	56293.7	Commercial	mg/kg	0	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Aromatics >C8-10	3460	Commercial	mg/kg	0	mg/kg																									
Aromatics >C10-12	9240	POS PARK	mg/kg	0	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	5.3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Aromatics >C12-16	10200	POS PARK	mg/kg	0	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.5	13.4	<0.1	<0.1	0.7	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Aromatics >C16-21	7630	POS PARK	mg/kg	0	mg/kg	1.8	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	4.4	<0.1	<0.1	<0.1	9.6	11.1	<0.1	<0.1	19.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Aromatics >C21-35	7820	POS PARK	mg/kg	0	mg/kg	4.6	<0.1	<0.1	0.3	<0.1	&																			

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	PFCPRC22	PFCPRC22	PFCPRC23	PFCPRC23	PFCPRC23	PFCPRC23	PFCPRC24	PFCPRC24	PFCPRC25	PFCPRC25	PFCPRC25	PFCPRC26	PFCPRC26	PFCPRC26	PFCPRC27	PFCPRC27	PFCPRC27	PFCPRC28	PFCPRC28	PFCPRC28	PFCPRC29	PFCPRC29
					Sample Top	Sample Ref	Sample Type	0.40	6.70	13.00	13.40	2.00	6.00	1.00	15.00	1.00	12.00	4.00	6.00	0.60	12.00	6.00	0.60	2.00	8.00	1.00	11.00
					ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
n-propylbenzene	3860	Commercial	mg/kg	0	mg/kg																						
n-Butylbenzene	26.598	Commercial	mg/kg	0	mg/kg																						
2,4-Dimethylphenol	9180	POS PARK	mg/kg	0	mg/kg																						
3/4 Methylphenol	46000	POS PARK	mg/kg	0	mg/kg																						
1,4-Dichlorobenzene	4220	Commercial	mg/kg	0	mg/kg																						
1,2-Dichloroethane	0.671	Commercial	mg/kg	0	mg/kg																						
1,3,5-Trimethylbenzene	39.4	Commercial	mg/kg	0	mg/kg																						
Bromobenzene	91.5	Commercial	mg/kg	0	mg/kg																						
Chlorobenzene	55.6	Commercial	mg/kg	0	mg/kg																						
Phenol	7600	POS PARK	mg/kg	0	mg/kg																						
Bis(2-chloroethoxy)methane	0.956	Commercial	mg/kg	0	mg/kg																						
Bis(2-ethylhexyl)phthalate	16600	POS PARK	mg/kg	0	mg/kg																						
Di-N-Octyl Phthalate	20000	POS PARK	mg/kg	0	mg/kg																						
Hexachlorobenzene (HCB)	28.9	POS PARK	mg/kg	0	mg/kg																						
1,2,4-Trichlorobenzene	215	Commercial	mg/kg	0	mg/kg																						
2,4-Dichlorophenol	977	POS PARK	mg/kg	0	mg/kg																						
2,4-Dinitrotoluene	928	POS PARK	mg/kg	0	mg/kg																						
Dibromochloromethane	1.96	Commercial	mg/kg	0	mg/kg																						
Tetrachloroethene	18.6	Commercial	mg/kg	0	mg/kg																						
Dimethylphthalate	2630	POS PARK	mg/kg	0	mg/kg																						
Dibenzofuran	10.8	POS PARK	mg/kg	0	mg/kg																						
Sec-Butylbenzene	26.6	Commercial	mg/kg	0	mg/kg																						
cis-1,2-Dichloroethene	13.6	Commercial	mg/kg	0	mg/kg																						
trans-1,2-Dichloroethene	20.7	Commercial	mg/kg	0	mg/kg																						
Methyl tert-butyl ether (MTBE)	7480	Commercial	mg/kg	0	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
1,3-Dichlorobenzene	29.9	Commercial	mg/kg	0	mg/kg																						
Tetrachloromethane (Carbon Tetra Chloride)	2.87	Commercial	mg/kg	0	mg/kg																						
2,3,4,6-Tetrachlorophenol	1000	POS PARK	mg/kg	0	mg/kg																						
4-Chloro-3-Methylphenol	46100	POS PARK	mg/kg	0	mg/kg																						
2,6-Dinitrotoluene	468	POS PARK	mg/kg	0	mg/kg																						
1,1,1,2-Tetrachloroethane	108	Commercial	mg/kg	0	mg/kg																						
Chloroform	99.1	Commercial	mg/kg	0	mg/kg																						
1,1,1-Trichloroethane	660	Commercial	mg/kg	0	mg/kg																						
Chloroethene	0.0594	Commercial	mg/kg	0	mg/kg																						
Tribromomethane	714	Commercial	mg/kg	0	mg/kg																						
Bromodichloromethane	1.96	Commercial	mg/kg	0	mg/kg																						
1,1-Dichloroethane	263	Commercial	mg/kg	0	mg/kg																						
1,1-Dichloroethene	24.3	Commercial	mg/kg	0	mg/kg																						
1,2-Dichloropropane	3.13	Commercial	mg/kg	0	mg/kg																						
1,1,2-Trichloroethane	89.1	Commercial	mg/kg	0	mg/kg																						
Trichloroethene	1.23	Commercial	mg/kg	0	mg/kg																						
Diethylphthalate	89300	POS PARK	mg/kg	0	mg/kg																						
Di-N-Butyl Phthalate	2630	POS PARK	mg/kg	0	mg/kg																						
Butylbenzylphthalate	254000	POS PARK	mg/kg	0	mg/kg																						
Carbazole	10.8	POS PARK	mg/kg	0	mg/kg																						
1,2,3 Trichlorobenzene	102	Commercial	mg/kg	0	mg/kg																						
Hexachlorobutadiene (HCBD)	30.7	Commercial	mg/kg	0	mg/kg																						
Pentachlorophenol (PCP)	113	POS PARK	mg/kg	0	mg/kg																						
2,4,6-Trichlorophenol	1010	POS PARK	mg/kg	0	mg/kg																						
2-Nitroaniline	10.8	POS PARK	mg/kg	0	mg/kg																						
2-Methylnaphthalene	193	Commercial	mg/kg	0	mg/kg																						
2-Chloronaphthalene	370	Commercial	mg/kg	0	mg/kg																						
2,3,5,6-Tetrachlorophenol	1000	POS PARK	mg/kg	0	mg/kg																						

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	PFCPRC22	PFCPRC22	PFCPRC23	PFCPRC23	PFCPRC23	PFCPRC23	PFCPRC24	PFCPRC24	PFCPRC25	PFCPRC25	PFCPRC25	PFCPRC26	PFCPRC26	PFCPRC26	PFCPRC27	PFCPRC27	PFCPRC27	PFCPRC28	PFCPRC28	PFCPRC28	PFCPRC29	PFCPRC29		
					Sample Top	Sample Ref	Sample Type	0.40	6.70	13.00	13.40	2.00	6.00	1.00	15.00	1.00	12.00	4.00	6.00	0.60	12.00	6.00	0.60	2.00	8.00	1.00	11.00	14.80	9.00
					Sample Ref	2	8	15	16	4	8	4	7	3	14	6	8	2	15	9	3	6	12	3	13	17	11	2	6
					Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
O-Xylene	6603.1	Commercial	mg/kg	0	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
2-Methylphenol	46100	POS PARK	mg/kg	0	mg/kg																								
1,2-Dichlorobenzene	2020	Commercial	mg/kg	0	mg/kg																								
2-Chlorophenol	1010	POS PARK	mg/kg	0	mg/kg																								
1,2,4-Trimethylbenzene	39.4	Commercial	mg/kg	0	mg/kg																								
2,4,5-Trichlorophenol	1010	POS PARK	mg/kg	0	mg/kg																								
Isopropylbenzene	1300	Commercial	mg/kg	0	mg/kg																								
4-Isopropyltoluene	1300	Commercial	mg/kg	0	mg/kg																								
m,p xylenes	5923.3	Commercial	mg/kg	0	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Chromium - Hexavalent	220	POS PARK	mg/kg	0	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Cyanide Free	168	Commercial	mg/kg	0	mg/kg																								
Complex Cyanide	3460	POS PARK	mg/kg	0	mg/kg																								
4-Nitrophenol	7600000	POS PARK	ug/kg	0	ug/kg																								
Ethylbenzene	5705504.8	Commercial	ug/kg	0	ug/kg												<1	<1						<1	<1				
Styrene	3170000	Commercial	ug/kg	0	ug/kg												<1	<1						<1	<1				
n-Propylbenzene	3860000	Commercial	ug/kg	0	ug/kg												<1	<1						<1	<1				
n-Butylbenzene	26597.9	Commercial	ug/kg	0	ug/kg												<1	<1						<1	<1				
2,4-Dimethylphenol	9180000	POS PARK	ug/kg	0	ug/kg																								
4-Methylphenol	46000000	POS PARK	ug/kg	0	ug/kg																								
1,4-Dichlorobenzene	4220000	Commercial	ug/kg	0	ug/kg												<1	<1						<1	<1				
1,2-Dichloroethane	671	Commercial	ug/kg	0	ug/kg												<2	<2						<2	<2				
1,3,5-Trimethylbenzene	39400	Commercial	ug/kg	3	ug/kg												<1	5.0						<1	<1				
Bromobenzene	91500	Commercial	ug/kg	0	ug/kg												<1	<1						<1	<1				
Toluene VOC	56293712.79	Commercial	ug/kg	0	ug/kg												<1	<1						<1	<1				
Chlorobenzene	55600	Commercial	ug/kg	0	ug/kg												<1	<1						<1	<1				
Phenol SVOC	7600000	POS PARK	ug/kg	0	ug/kg																								
Bis(2-chloroethoxy)methane	956	Commercial	ug/kg	1	ug/kg																								
Bis(2-ethylhexyl)phthalate	16600000	POS PARK	ug/kg	0	ug/kg																								
n-Diethylphthalate	20000000	POS PARK	ug/kg	0	ug/kg																								
Hexachlorobenzene	28900	POS PARK	ug/kg	0	ug/kg																								
1,2,4-Trichlorobenzene	215000	Commercial	ug/kg	0	ug/kg												<3	<3						<3	<3				
2,4-Dichlorophenol	977000	POS PARK	ug/kg	0	ug/kg																								
2,4-Dinitrotoluene	928000	POS PARK	ug/kg	0	ug/kg																								
Dibromochloromethane	1960	Commercial	ug/kg	0	ug/kg												<3	<3						<3	<3				
Tetrachloroethene	18600	Commercial	ug/kg	0	ug/kg												<1	<1						<1	<1				
Dimethyl phthalate	2630000	POS PARK	ug/kg	0	ug/kg																								
Dibenzofuran	10800	POS PARK	ug/kg	5	ug/kg																								
sec-Butylbenzene	26597.8811	Commercial	ug/kg	0	ug/kg												<1	<1						<1	<1				
cis 1,2-Dichloroethene	13600	Commercial	ug/kg	0	ug/kg												<1	<1						<1	<1				
trans 1,2-Dichloroethene	20700	Commercial	ug/kg	0	ug/kg												<1	<1						<1	<1				
Perylene	10800000	POS PARK	ug/kg	0	ug/kg																								
1,3-Dichlorobenzene	29900	Commercial	ug/kg	0	ug/kg												<1	<1						<1	<1				
Carbon Tetrachloride	2870	Commercial	ug/kg	0	ug/kg												<1	<1						<1	<1				
4-Chloro-3-methylphenol	46100000	POS PARK	ug/kg	0	ug/kg																								
2,6-Dinitrotoluene	468000	POS PARK	ug/kg	0	ug/kg																								
1,1,1,2-Tetrachloroethane	108000	Commercial	ug/kg	0	ug/kg												<1	<1						<1	<1				
Chloroform	99100	Commercial	ug/kg	0	ug/kg												<1	<1						<1	<1				
Hexachloroethane	20900000	Commercial	ug/kg	0	ug/kg																								
Benzene VOC	26597.9	Commercial	ug/kg	0	ug/kg												<1	<1						<1	<1				
1,1,1-Trichloroethane	660000	Commercial	ug/kg	0	ug/kg												<1	<1						<1	<1				
Barium	5770	POS PARK	mg/kg	0	mg/kg	563.0	125.0	156.0	506.0	585.0	98.0	482.0	2140.0	95.0	284.0	299.0	330.0	80.0	63.0	473.0	310.0	488.0	616.0	764.0	537.0	996.0	296.0	398.0	311.0
Chloromethane	956000	Commercial	ug/kg	0	ug/kg												<10	<10						<10	<10				
Chloroethane	90400000	Commercial	ug/kg	0	ug/kg												<1	<1						<1	<1				

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	PFCPRC22	PFCPRC22	PFCPRC23	PFCPRC23	PFCPRC23	PFCPRC23	PFCPRC24	PFCPRC24	PFCPRC25	PFCPRC25	PFCPRC25	PFCPRC26	PFCPRC26	PFCPRC26	PFCPRC27	PFCPRC27	PFCPRC27	PFCPRC28	PFCPRC28	PFCPRC28	PFCPRC29	PFCPRC29
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Vinyl Chloride	59.4	Commercial	ug/kg	0	ug/kg																						
Dichloromethane VOC	257000000	Commercial	ug/kg	0	ug/kg																						
Carbon Disulphide	11000000	Commercial	ug/kg	0	ug/kg																						
Bromoform	714000	Commercial	ug/kg	0	ug/kg																						
Bromodichloromethane	1960	Commercial	ug/kg	0	ug/kg																						
1,1-Dichloroethane	263000	Commercial	ug/kg	0	ug/kg																						
1,1-Dichloroethene	24300	Commercial	ug/kg	0	ug/kg																						
Isophorone	26597881.1	Commercial	ug/kg	0	ug/kg																						
1,2-Dichloropropane	3130	Commercial	ug/kg	0	ug/kg																						
1,1,2-Trichloroethane	89100	Commercial	ug/kg	0	ug/kg																						
Trichloroethene	1230	Commercial	ug/kg	0	ug/kg																						
1,1,2,2-Tetrachloroethane	274000000	Commercial	ug/kg	0	ug/kg																						
Diethyl phthalate	89300000	POS PARK	ug/kg	0	ug/kg																						
n-Dibutylphthalate	2630000	POS PARK	ug/kg	0	ug/kg																						
Butylbenzyl phthalate SVOC	254000000	POS PARK	ug/kg	0	ug/kg																						
Carbazole	10800	POS PARK	ug/kg	2	ug/kg																						
1,2,3-Trichlorobenzene	102000	Commercial	ug/kg	0	ug/kg																						
Hexachlorobutadiene	30700	Commercial	ug/kg	0	ug/kg																						
Pentachlorophenol	113000	POS PARK	ug/kg	0	ug/kg																						
2,4,6-Trichlorophenol	1010000	POS PARK	ug/kg	0	ug/kg																						
2-Nitrophenol	7600000000	POS PARK	ug/kg	0	ug/kg																						
2-Methylnaphthalene (SVOC) DEFAULT	193000	Commercial	ug/kg	2	ug/kg																						
2-Chloronaphthalene	370000	Commercial	ug/kg	0	ug/kg																						
o-Xylene	6603100.7	Commercial	ug/kg	0	ug/kg																						
2-Methylphenol	46100000	POS PARK	ug/kg	0	ug/kg																						
1,2-Dichlorobenzene	2020000	Commercial	ug/kg	0	ug/kg																						
2-Chlorophenol	1010000	POS PARK	ug/kg	0	ug/kg																						
1,2,4-Trimethylbenzene	39400	Commercial	ug/kg	5	ug/kg																						
2,4,5-Trichlorophenol	1010000	POS PARK	ug/kg	0	ug/kg																						
Isopropylbenzene	1300000	Commercial	ug/kg	0	ug/kg																						
Nitrobenzene	26597881.1	Commercial	ug/kg	0	ug/kg																						
4-Isopropyltoluene	1300000	Commercial	ug/kg	0	ug/kg																						
m & p Xylene	5923262.7	Commercial	ug/kg	0	ug/kg																						
Aro >C8-C9	7220	POS PARK	mg/kg	0	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Aro >C9-C10	7220	POS PARK	mg/kg	0	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.0	0.2	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Tributyltin SUBCON I2	42400000	POS PARK	ug/kg	0	ug/kg																						
Atrazine SUBCON Alcontrol	379000000	POS Maintenance	ug/kg	0	ug/kg																						
Aldrin SUBCON Alcontrol	7800000	POS PARK	ug/kg	0	ug/kg																						
alpha-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	46500000	POS PARK	ug/kg	0	ug/kg																						
beta-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	13300000	POS PARK	ug/kg	0	ug/kg																						
Endosulphan II	1960000000	POS Maintenance	ug/kg	0	ug/kg																						
Dieldrin SUBCON Alcontrol	12900000	POS PARK	ug/kg	0	ug/kg																						
Dichlorvos	26000000	POS PARK	ug/kg	0	ug/kg																						
Endosulphan I	1950000000	POS Maintenance	ug/kg	0	ug/kg																						
Aro >C35-C44	7820	POS PARK	mg/kg	0	mg/kg																						
Ali >C35-C44	455000	POS PARK	mg/kg	0	mg/kg																						
Anthracene SVOC	149000000	POS PARK	ug/kg	0	ug/kg																						
Pyrene SVOC	15100000	POS PARK	ug/kg	0	ug/kg																						
Benzo(ghi)perylene SVOC	612000	POS Maintenance	ug/kg	0	ug/kg																						
Indeno(1,2,3-cd)pyrene SVOC	44000	POS Maintenance	ug/kg	1	ug/kg																						
Benzo(b)fluoranthene SVOC	13200	POS PARK	ug/kg	7	ug/kg																						
Fluoranthene SVOC	6300000	POS PARK	ug/kg	0	ug/kg																						

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	PFCPRC22	PFCPRC22	PFCPRC23	PFCPRC23	PFCPRC23	PFCPRC23	PFCPRC24	PFCPRC24	PFCPRC25	PFCPRC25	PFCPRC25	PFCPRC26	PFCPRC26	PFCPRC26	PFCPRC27	PFCPRC27	PFCPRC27	PFCPRC28	PFCPRC28	PFCPRC28	PFCPRC28	PFCPRC29		
					Sample Top	Sample Ref	Sample Type	0.40	6.70	13.00	13.40	2.00	6.00	1.00	15.00	1.00	12.00	4.00	6.00	0.60	12.00	6.00	0.60	2.00	8.00	1.00	11.00	14.80	9.00
					Sample Ref	2	8	15	16	4	8	4	7	3	14	6	8	2	15	9	3	6	12	3	13	17	11	2	6
					Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Benzo(k)fluoranthene SVOC	114000	POS Maintenance	ug/kg	0	ug/kg																								
Acenaphthylene SVOC	28900000	POS PARK	ug/kg	0	ug/kg																								
Chrysene SVOC	91000	POS Maintenance	ug/kg	1	ug/kg																								
Benzo(a)pyrene SVOC	10800	POS PARK	ug/kg	8	ug/kg																								
Dibenzo(ah)anthracene SVOC	1150	POS PARK	ug/kg	10	ug/kg																								
Benzo(a)anthracene SVOC	48800	POS PARK	ug/kg	2	ug/kg																								
Acenaphthene SVOC	28900000	POS PARK	ug/kg	0	ug/kg																								
Phenanthrene SVOC	6170000	POS PARK	ug/kg	0	ug/kg																								
Fluorene SVOC	19600000	POS PARK	ug/kg	0	ug/kg																								
Naphthalene SVOC	193000	Commercial	ug/kg	1	ug/kg																								
Xylenols	9180	POS PARK	mg/kg	0	mg/kg																								
Cresols	46100	POS PARK	mg/kg	0	mg/kg																								
Tributyltin	42400	POS PARK	mg/kg	0	mg/kg																								
Methyl tert-butyl ether (MTBE)	7480000	Commercial	ug/kg	0	ug/kg																								
Aromatics >C6-7	27000000	Commercial	ug/kg	0	ug/kg																								
Aromatics >C7-8	56293712.8	Commercial	ug/kg	0	ug/kg																								
Aromatics >C8-10	3460000	Commercial	ug/kg	0	ug/kg																								
Aromatics >C10-12	9240000	POS PARK	ug/kg	0	ug/kg																								
Aromatics >C12-16	10200000	POS PARK	ug/kg	0	ug/kg																								
Aromatics >C16-21	7630000	POS PARK	ug/kg	0	ug/kg																								
Aromatics >C21-35	7820000	POS PARK	ug/kg	1	ug/kg																								
Aromatics >C35-44	7820000	POS PARK	ug/kg	0	ug/kg																								
Aliphatics >C5-6	3190000	Commercial	ug/kg	0	ug/kg																								
Aliphatics >C6-8	7780000	Commercial	ug/kg	0	ug/kg																								
Aliphatics >C8-10	2000000	Commercial	ug/kg	1	ug/kg																								
Aliphatics >C10-12	9690000	Commercial	ug/kg	0	ug/kg																								
Aliphatics >C12-16	24700000	POS PARK	ug/kg	0	ug/kg																								
Aliphatics >C16-21	455000000	POS PARK	ug/kg	0	ug/kg																								
Aliphatics >C21-35	455000000	POS PARK	ug/kg	0	ug/kg																								
Aliphatics >C35-44	455000000	POS PARK	ug/kg	0	ug/kg																								
Trivalent Chromium	33000	POS PARK	mg/kg	0	mg/kg																								
Molybdenum	2890	POS PARK	mg/kg	0	mg/kg																								
4-Nitroaniline	10800	POS PARK	ug/kg	0	ug/kg																								
Azobenzene	10800	POS PARK	ug/kg	0	ug/kg																								
4-Chloroaniline	10800000	POS PARK	ug/kg	0	ug/kg																								
2-Nitroaniline	10800	POS PARK	ug/kg	0	ug/kg																								

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	PFCPRC29	PFCPRC37	PFCPRC37	PFCPRC37	PFCPRC37	PFCPRC37	PFCPRC38 (SP)	PFCPRC39	PFCPRC39	PFCPRC39	PFCPRC39	PFCPRC40 (SP)	PFCPRC40 (SP)	PFCPRC40 (SP)	PFCPRC40 (SP)	PFCPRC40 (SP)	PFCPRC41	PFCPRC41	PFCPRC41	PFCPRC41 A (SP)	PFCPRC42 (SP)	PFCPRC42 (SP)	PFCPRC43 (SP)	PFCPRC43 (SP)	
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Ethylbenzene	5705.5	Commercial	mg/kg	0	mg/kg	<0.01	<0.01	<0.01	<0.01	0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.1	<0.05	<0.01	<0.01	<0.01	<0.01	0.0	<0.01	<0.01	
Toluene	56293.7	Commercial	mg/kg	0	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Anthracene	149000	POS PARK	mg/kg	0	mg/kg	<0.02	0.0	<0.02	<0.02	1.0	<0.02	0.1	<0.02	0.1		0.6	<0.02	<0.02	0.9	3.6	4.7	2.3	0.1	0.1	0.1	0.0	1.2	<0.02	<0.02	
Pyrene	15100	POS PARK	mg/kg	0	mg/kg	<0.07	0.3	<0.07	<0.07	5.2	<0.07	0.7	<0.07	0.8		4.7	0.1	<0.07	3.6	12.0	15.6	7.6	1.6	1.1	0.3	0.2	4.1	<0.07	<0.07	
Xylene	6603.1	Commercial	mg/kg	0	mg/kg																									
Benzo (g,h,i) perylene	612	POS Maintenance	mg/kg	0	mg/kg	<0.05	0.2	<0.05	<0.05	0.8	<0.05	0.4	<0.05	0.2		0.7	<0.05	<0.05	0.8	1.8	1.7	1.0	0.4	0.5	0.1	0.1	0.8	<0.05	<0.05	
Indeno(1,2,3-cd)pyrene	44	POS Maintenance	mg/kg	0	mg/kg	<0.03	0.2	<0.03	<0.03	1.2	<0.03	0.4	<0.03	0.2		0.8	0.0	<0.03	0.9	2.2	2.0	1.2	0.4	0.6	0.1	0.1	0.9	<0.03	<0.03	
Benzo(b)fluoranthene	13.2	POS PARK	mg/kg	4	mg/kg	<0.05	0.3	<0.05	<0.05	1.9	<0.05	0.7	<0.05	0.4		1.9	0.1	<0.05	2.3	4.5	4.3	2.7	0.8	1.1	0.2	0.2	1.8	<0.05	<0.05	
Fluoranthene	6300	POS PARK	mg/kg	0	mg/kg	<0.08	0.4	<0.08	<0.08	6.3	<0.08	0.8	<0.08	1.2		5.5	0.1	<0.08	4.6	15.9	15.8	10.3	1.2	1.3	0.4	0.3	5.6	<0.08	<0.08	
Benzo(k)fluoranthene	114	POS Maintenance	mg/kg	0	mg/kg	<0.07	0.1	<0.07	<0.07	0.7	<0.07	0.3	<0.07	0.2		0.7	<0.07	<0.07	0.8	1.8	2.0	1.0	0.3	0.4	<0.07	<0.07	0.7	<0.07	<0.07	
Acenaphthylene	28900	POS PARK	mg/kg	0	mg/kg	<0.01	<0.01	<0.01	<0.01	0.1	<0.01	0.0	<0.01	<0.01		0.0	<0.01	<0.01	0.1	0.8	0.2	0.1	0.0	0.0	<0.01	<0.01	0.0	<0.01	<0.01	
Chrysene	91	POS Maintenance	mg/kg	0	mg/kg	<0.06	0.3	<0.06	<0.06	2.5	<0.06	0.4	<0.06	0.3		1.8	<0.06	<0.06	1.7	4.5	6.1	2.5	0.6	0.7	0.1	0.1	1.5	<0.06	<0.06	
Benzo(a)pyrene	10.8	POS PARK	mg/kg	4	mg/kg	<0.04	0.2	<0.04	<0.04	1.6	<0.04	0.5	<0.04	0.3		1.3	0.1	<0.04	1.7	3.2	3.2	2.0	0.4	0.7	0.1	0.1	1.2	<0.04	<0.04	
Dibenz-a-h-anthracene	1.15	POS PARK	mg/kg	5	mg/kg	<0.04	<0.04	<0.04	<0.04	0.2	<0.04	0.1	<0.04	<0.04		0.2	<0.04	<0.04	0.2	0.5	0.4	0.2	0.1	0.1	<0.04	<0.04	0.2	<0.04	<0.04	
Benzo(a)anthracene	48.8	POS PARK	mg/kg	0	mg/kg	<0.04	0.2	<0.04	<0.04	2.7	<0.04	0.4	<0.04	0.3		1.8	0.1	<0.04	1.8	6.2	8.2	2.8	0.5	0.7	0.1	0.1	1.7	<0.04	<0.04	
Cyanide	24	POS PARK	mg/kg	5	mg/kg																									
Benzene	26.60	Commercial	mg/kg	0	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Lead	1300	POS PARK	mg/kg	13	mg/kg	4.0	130.0	16.0	40.0	159.0	24.0	327.0	15.0	35.0		18.0	18.0	29.0	54.0	255.0	310.0	362.0	163.0	169.0	22.0	30.0	171.0	6.0	38.0	
Mercury	244	POS PARK	mg/kg	0	mg/kg	0.7	0.2	<0.17	<0.17	1.6	<0.17	0.6	0.6	1.1		0.5	0.6	<0.17	0.2	0.7	0.7	0.4	0.3	0.2	<0.17	0.3	1.1	0.3	0.5	
Nickel	804	POS PARK	mg/kg	8	mg/kg	3.0	28.0	63.0	27.0	38.0	31.0	17.0	22.0	9.0		26.0	8.0	28.0	30.0	85.0	200.0	41.0	29.0	41.0	46.0	26.0	78.0	9.0	12.0	
Antimony	3290	POS PARK	mg/kg	0	mg/kg																									
Arsenic	168	POS PARK	mg/kg	0	mg/kg	<1	12.0	2.0	11.0	20.0	10.0	8.0	3.0	2.0		6.0	4.0	5.0	8.0	13.0	12.0	12.0	11.0	14.0	5.0	10.0	14.0	3.0	1.0	
Beryllium	11.7	Commercial	mg/kg	1	mg/kg	<1	1.0	2.0	1.0	1.0	2.0	1.0	1.0	<1		1.0	<1	1.0	1.0	1.0	2.0	1.0	1.0	1.0	2.0	1.0	1.0	<1	<1	
Boron	46200	POS PARK	mg/kg	0	mg/kg	<1.0	1.6	1.8	1.0	2.0	2.5	1.1	1.5	1.4		4.5	1.2	2.8	1.7	3.5	5.4	5.2	2.8	5.2	14.3	2.4	4.4	<1.0	<1.0	
Cadmium	190	Commercial	mg/kg	0	mg/kg	<0.5	2.5	3.4	2.5	3.7	2.8	1.9	1.5	0.7		1.8	0.8	2.7	1.9	6.3	10.1	3.6	3.1	3.8	2.7	2.3	7.0	<0.5	<0.5	
Chromium	8570	Commercial	mg/kg	1	mg/kg	5.0	34.0	56.0	42.0	46.0	54.0	24.0	25.0	15.0		26.0	8.0	26.0	35.0	93.0	152.0	32.0	32.0	42.0	36.0	26.0	79.0	9.0	7.0	
Copper	44400	POS PARK	mg/kg	2	mg/kg	3.0	30.0	27.0	21.0	94.0	15.0	26.0	10.0	29.0		16.0	11.0	10.0	127.0	220.0	109.0	85.0	66.0	76.0	22.0	16.0	158.0	6.0	20.0	
Vanadium	2820	POS Maintenance	mg/kg	0	mg/kg																									
Zinc	173000	POS PARK	mg/kg	0	mg/kg	16.0	155.0	131.0	129.0	339.0	75.0	156.0	48.0	92.0		68.0	37.0	74.0	89.0	644.0	1820.0	386.0	290.0	214.0	106.0	73.0	1440.0	24.0	44.0	
Selenium	1850	POS PARK	mg/kg	0	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1	<1		<1	<1	<1	<1	<1	2.0	<1	<1	<1	<1	<1	<1	<1	<1	<1
Acenaphthene	28900	POS PARK	mg/kg	0	mg/kg	<0.01	0.0	<0.01	<0.01	0.8	<0.01	0.0	<0.01	0.2		0.2	<0.01	<0.01	0.2	1.5	4.2	3.7	0.1	0.1	0.0	0.0	1.5	<0.01	<0.01	
Phenanthrene	6170	POS PARK	mg/kg	0	mg/kg	<0.03	0.2	<0.03	<0.03	3.8	<0.03	0.2	<0.03	0.5		3.0	0.0	<0.03	1.7	15.4	16.1	11.4	0.5	0.3	0.2	0.1	5.0	0.0	<0.03	
Fluorene	19600	POS PARK	mg/kg	0	mg/kg	<0.01	<0.01	<0.01	<0.01	0.8	<0.01	0.0	<0.01	0.1		0.4	<0.01	<0.01	0.3	2.6	4.9	3.5	0.1	0.1	0.1	0.0	1.5	<0.01	<0.01	
Napthalene	193	Commercial	mg/kg	0	mg/kg	<0.03	<0.03	<0.03	<0.03	1.7	<0.03	<0.03	<0.03	<0.03		0.1	<0.03	<0.03	0.2	1.1	0.5	3.8	0.0	<0.03	<0.03	<0.03	0.9	<0.03	<0.03	
Phenol (Monohydric)	7600	POS Maintenance	mg/kg	0	mg/kg																									
Aromatics >C7-8	56293.7	Commercial	mg/kg	0	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Aromatics >C8-10	3460	Commercial	mg/kg	0	mg/kg																									
Aromatics >C10-12	9240	POS PARK	mg/kg	0	mg/kg	<0.1	<0.1	<0.1	<0.1	34.2	<0.1	<0.1	<0.1	<0.1		<0.1	<0.1	<0.1	<0.1	1.7	7.1	5.2	<0.1	<0.1	<0.1	<0.1	12.1	<0.1	<0.1	
Aromatics >C12-16	10200	POS PARK	mg/kg	0	mg/kg	<0.1	<0.1	<0.1	<0.1	10.0	<0.1	<0.1	<0.1	<0.1		0.4	<0.1	<0.1	1.9	6.8	59.9	7.4	<0.1	<0.1	<0.1	<0.1	19.6	<0.1	<0.1	
Aromatics >C16-21	7630	POS PARK	mg/kg	0	mg/kg	<0.1	1.7	<0.1	<0.1	30.6	<0.1	1.2	<0.1	<0.1		10.5	<0.1	<0.1	19.3	152.0	259.0	16.5	0.7	2.5	5.4	<0.1	38.0	<0.1	<0.1	
Aromatics >C21-35	7820	POS PARK	mg/kg	0	mg/kg	<0.1	7.1	<0.1	<0.1	92.4	<0.1	0.4	<0.1	2.0		22.3	<0.1	2.7	40.0	891.0	583.0	40.5	1.2	6.3	7.5	<0.1	80.1	<0.1	<0.1	
Aliphatics >C5-6	3190	Commercial	mg/kg	0	mg/kg	<0																								

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	PFCPRC29	PFCPRC37	PFCPRC37	PFCPRC37	PFCPRC37	PFCPRC37	PFCPRC38 (SP)	PFCPRC39	PFCPRC39	PFCPRC39	PFCPRC39	PFCPRC40 (SP)	PFCPRC40 (SP)	PFCPRC40 (SP)	PFCPRC40 (SP)	PFCPRC40 (SP)	PFCPRC41	PFCPRC41	PFCPRC41 A (SP)	PFCPRC42 (SP)	PFCPRC42 (SP)	PFCPRC43 (SP)	PFCPRC43 (SP)	
					Sample Top	Sample Ref	Sample Type	7.00	1.00	10.00	3.00	6.00	8.00	0.70	0.60	3.00	4.00	9.00	0.80	14.50	2.00	4.70	9.70	3.50	6.80	9.50	15.50	0.90	4.00
n-propylbenzene	3860	Commercial	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
n-Butylbenzene	26.598	Commercial	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
2,4-Dimethylphenol	9180	POS PARK	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
3/4 Methylphenol	46000	POS PARK	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
1,4-Dichlorobenzene	4220	Commercial	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
1,2-Dichloroethane	0.671	Commercial	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
1,3,5-Trimethylbenzene	39.4	Commercial	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Bromobenzene	91.5	Commercial	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Chlorobenzene	55.6	Commercial	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Phenol	7600	POS PARK	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Bis(2-chloroethoxy)methane	0.956	Commercial	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Bis(2-ethylhexyl)phthalate	16600	POS PARK	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Di-N-Octyl Phthalate	20000	POS PARK	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Hexachlorobenzene (HCB)	28.9	POS PARK	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
1,2,4-Trichlorobenzene	215	Commercial	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
2,4-Dichlorophenol	977	POS PARK	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
2,4-Dinitrotoluene	928	POS PARK	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Dibromochloromethane	1.96	Commercial	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Tetrachloroethene	18.6	Commercial	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Dimethylphthalate	2630	POS PARK	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Dibenzofuran	10.8	POS PARK	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Sec-Butylbenzene	26.6	Commercial	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
cis-1,2-Dichloroethene	13.6	Commercial	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
trans-1,2-Dichloroethene	20.7	Commercial	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Methyl tert-butyl ether (MTBE)	7480	Commercial	mg/kg	0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
1,3-Dichlorobenzene	29.9	Commercial	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Tetrachloromethane (Carbon Tetra Chloride)	2.87	Commercial	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
2,3,4,6-Tetrachlorophenol	1000	POS PARK	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
4-Chloro-3-Methylphenol	46100	POS PARK	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
2,6-Dinitrotoluene	468	POS PARK	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
1,1,1,2-Tetrachloroethane	108	Commercial	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Chloroform	99.1	Commercial	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
1,1,1-Trichloroethane	660	Commercial	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Chloroethene	0.0594	Commercial	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Tribromomethane	714	Commercial	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Bromodichloromethane	1.96	Commercial	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
1,1-Dichloroethane	263	Commercial	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
1,1-Dichloroethene	24.3	Commercial	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
1,2-Dichloropropane	3.13	Commercial	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
1,1,2-Trichloroethane	89.1	Commercial	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Trichloroethene	1.23	Commercial	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Diethylphthalate	89300	POS PARK	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Di-N-Butyl Phthalate	2630	POS PARK	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Butylbenzylphthalate	254000	POS PARK	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Carbazole	10.8	POS PARK	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
1,2,3 Trichlorobenzene	102	Commercial	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Hexachlorobutadiene (HCBD)	30.7	Commercial	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Pentachlorophenol (PCP)	113	POS PARK	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
2,4,6-Trichlorophenol	1010	POS PARK	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
2-Nitroaniline	10.8	POS PARK	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
2-Methylnaphthalene	193	Commercial	mg/kg	0	ES	ES	ES	ES																					

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	PFCPRC29	PFCPRC37	PFCPRC37	PFCPRC37	PFCPRC37	PFCPRC37	PFCPRC38 (SP)	PFCPRC39	PFCPRC39	PFCPRC39	PFCPRC39	PFCPRC40 (SP)	PFCPRC40 (SP)	PFCPRC40 (SP)	PFCPRC40 (SP)	PFCPRC40 (SP)	PFCPRC41	PFCPRC41	PFCPRC41 A (SP)	PFCPRC42 (SP)	PFCPRC42 (SP)	PFCPRC43 (SP)	PFCPRC43 (SP)	
					Sample Top	Sample Ref	Sample Type	7.00	1.00	10.00	3.00	6.00	8.00	0.70	0.60	3.00	4.00	9.00	0.80	14.50	2.00	4.70	9.70	3.50	6.80	9.50	15.50	0.90	4.00
O-Xylene	6603.1	Commercial	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
2-Methylphenol	46100	POS PARK	mg/kg	0																									
1,2-Dichlorobenzene	2020	Commercial	mg/kg	0																									
2-Chlorophenol	1010	POS PARK	mg/kg	0																									
1,2,4-Trimethylbenzene	39.4	Commercial	mg/kg	0																									
2,4,5-Trichlorophenol	1010	POS PARK	mg/kg	0																									
Isopropylbenzene	1300	Commercial	mg/kg	0																									
4-Isopropyltoluene	1300	Commercial	mg/kg	0																									
m,p xylenes	5923.3	Commercial	mg/kg	0	<0.01	<0.01	<0.01	<0.01	0.2	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	3.8	<0.05	0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium - Hexavalent	220	POS PARK	mg/kg	0	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cyanide Free	168	Commercial	mg/kg	0																									
Complex Cyanide	3460	POS PARK	mg/kg	0																									
4-Nitrophenol	7600000	POS PARK	ug/kg	0																<100	<100								<100
Ethylbenzene	5705504.8	Commercial	ug/kg	0			<1		14.0	<1									<1	<1									12.0
Styrene	3170000	Commercial	ug/kg	0			<1		<1	<1									<1	<1									<1
n-Propylbenzene	3860000	Commercial	ug/kg	0			<1		11.0	<1									2.0	6.0									<1
n-Butylbenzene	26597.9	Commercial	ug/kg	0			<1		32.0	<1									<1	7.0									6.0
2,4-Dimethylphenol	9180000	POS PARK	ug/kg	0															<100	<100									<100
4-Methylphenol	46000000	POS PARK	ug/kg	0															<100	<100									<100
1,4-Dichlorobenzene	4220000	Commercial	ug/kg	0			<1		13.0	<1									10.0	5.0									6.0
1,2-Dichloroethane	671	Commercial	ug/kg	0			<2		<2	<2									<2	<2									<2
1,3,5-Trimethylbenzene	39400	Commercial	ug/kg	3			<1		41.0	<1									17.0	12.0									10.0
Bromobenzene	91500	Commercial	ug/kg	0			<1		<1	<1									<1	<1									<1
Toluene VOC	56293712.79	Commercial	ug/kg	0			<1		<1	<1									<1	1.0									<1
Chlorobenzene	55600	Commercial	ug/kg	0			<1		<1	<1									<1	<1									<1
Phenol SVOC	7600000	POS PARK	ug/kg	0															269.0	<100									<100
Bis(2-chloroethoxy)methane	956	Commercial	ug/kg	1															<100	<100									<100
Bis(2-ethylhexyl)phthalate	16600000	POS PARK	ug/kg	0															<100	<100									<100
n-Diethylphthalate	20000000	POS PARK	ug/kg	0															<100	37300.0									<100
Hexachlorobenzene	28900	POS PARK	ug/kg	0															<100	<100									<100
1,2,4-Trichlorobenzene	215000	Commercial	ug/kg	0			<3		<3	<3									<3	<3									<3
2,4-Dichlorophenol	977000	POS PARK	ug/kg	0															<100	<100									<100
2,4-Dinitrotoluene	928000	POS PARK	ug/kg	0															<100	<100									<100
Dibromochloromethane	1960	Commercial	ug/kg	0			<3		<3	<3									<3	<3									<3
Tetrachloroethene	18600	Commercial	ug/kg	0			<1		<1	<1									<1	<1									<1
Dimethyl phthalate	2630000	POS PARK	ug/kg	0															<100	<100									<100
Dibenzofuran	10800	POS PARK	ug/kg	5															3080.0	3520.0									657.0
sec-Butylbenzene	26597.8811	Commercial	ug/kg	0			<1		8.0	<1									1.0	2.0									<1
cis 1,2-Dichloroethene	13600	Commercial	ug/kg	0			<1		<1	<1									<1	<1									<1
trans 1,2-Dichloroethene	20700	Commercial	ug/kg	0			<1		<1	<1									<1	<1									<1
Perylene	10800000	POS PARK	ug/kg	0															939.0	1170.0									993.0
1,3-Dichlorobenzene	29900	Commercial	ug/kg	0			<1		<1	<1									<1	<1									<1
Carbon Tetrachloride	2870	Commercial	ug/kg	0			<1		<1	<1									<1	<1									<1
4-Chloro-3-methylphenol	46100000	POS PARK	ug/kg	0															<100	<100									<100
2,6-Dinitrotoluene	468000	POS PARK	ug/kg	0															<100	<100									<100
1,1,1,2-Tetrachloroethane	108000	Commercial	ug/kg	0			<1		<1	<1									<1	<1									<1
Chloroform	99100	Commercial	ug/kg	0			<1		<1	<1									<1	<1									<1
Hexachloroethane	20900000	Commercial	ug/kg	0															<100	<100									<100
Benzene VOC	26597.9	Commercial	ug/kg	0			<1		<1	<1									<1	<1									<1
1,1,1-Trichloroethane	660000	Commercial	ug/kg	0			<1		<1	<1									<1	<1									<1
Barium	5770	POS PARK	mg/kg	0	48.0	196.0	132.0	95.0	232.0	66.0	239.0	51.0	441.0	76.0	49.0	104.0	176.0	721.0	525.0	308.0	288.0	173.0	142.0	103.0	755.0	28.0	29.0		
Chloromethane	956000	Commercial	ug/kg	0			<10		<10	<10									<10	<10									<10
Chloroethane	90400000	Commercial	ug/kg	0			<1		<1	<1									<1	<1									<1

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Sample Type	Hole Ref	PFCPRC29	PFCPRC37	PFCPRC37	PFCPRC37	PFCPRC37	PFCPRC37	PFCPRC38 (SP)	PFCPRC39	PFCPRC39	PFCPRC39	PFCPRC39	PFCPRC39	PFCPRC40 (SP)	PFCPRC40 (SP)	PFCPRC40 (SP)	PFCPRC40 (SP)	PFCPRC40 (SP)	PFCPRC41	PFCPRC41	PFCPRC41	PFCPRC41 A (SP)	PFCPRC42 (SP)	PFCPRC42 (SP)	PFCPRC43 (SP)	PFCPRC43 (SP)		
						Sample Top	Sample Ref	Sample Type	7.00	1.00	10.00	3.00	6.00	8.00	0.70	0.60	3.00	4.00	9.00	0.80	14.50	2.00	4.70	9.70	3.50	6.80	9.50	15.50	0.90	4.00	0.50	1.80	
Vinyl Chloride	59.4	Commercial	ug/kg	0	ug/kg	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	
Dichloromethane VOC	257000000	Commercial	ug/kg	0	ug/kg				<1	<1	<1											<1.0	<1.0								<1.0		
Carbon Disulphide	11000000	Commercial	ug/kg	0	ug/kg				<5	<5	<5											<5	<5								<5		
Bromoform	714000	Commercial	ug/kg	0	ug/kg				<1	<1	<1											<1	<1								<1		
Bromodichloromethane	1960	Commercial	ug/kg	0	ug/kg				<10	<10	<10											<10	<10								<10		
1,1-Dichloroethane	263000	Commercial	ug/kg	0	ug/kg				<1	<1	<1											<1	<1								<1		
1,1-Dichloroethene	24300	Commercial	ug/kg	0	ug/kg				<1	<1	<1											<1	<1								<1		
Isophorone	26597881.1	Commercial	ug/kg	0	ug/kg																	<100	<100								<100		
1,2-Dichloropropane	3130	Commercial	ug/kg	0	ug/kg				<1	<1	<1											<1	<1								<1		
1,1,2-Trichloroethane	89100	Commercial	ug/kg	0	ug/kg				<1	<1	<1											<1	<1								<1		
Trichloroethene	1230	Commercial	ug/kg	0	ug/kg				<1	<1	<1											<1	<1								<1		
1,1,2,2-Tetrachloroethane	274000000	Commercial	ug/kg	0	ug/kg				<1	<1	<1											<1	<1								<1		
Diethyl phthalate	89300000	POS PARK	ug/kg	0	ug/kg																	497.0	<100								<100		
n-Dibutylphthalate	2630000	POS PARK	ug/kg	0	ug/kg																	4740.0	357.0								763.0		
Butylbenzyl phthalate SVOC	254000000	POS PARK	ug/kg	0	ug/kg																	<100	<100								<100		
Carbazole	10800	POS PARK	ug/kg	2	ug/kg																	1880.0	1040.0								687.0		
1,2,3-Trichlorobenzene	102000	Commercial	ug/kg	0	ug/kg				<3	<3	<3											<3	<3								<3		
Hexachlorobutadiene	30700	Commercial	ug/kg	0	ug/kg				<1	<1	<1											<1	<1								<1		
Pentachlorophenol	113000	POS PARK	ug/kg	0	ug/kg																	<100	<100								<100		
2,4,6-Trichlorophenol	1010000	POS PARK	ug/kg	0	ug/kg																	<100	<100								<100		
2-Nitrophenol	7600000000	POS PARK	ug/kg	0	ug/kg																	<100	<100								<100		
2-Methylnaphthalene (SVOC) DEFAULT	193000	Commercial	ug/kg	2	ug/kg																	557.0	3430.0								609.0		
2-Chloronaphthalene	370000	Commercial	ug/kg	0	ug/kg																	<100	<100								<100		
o-Xylene	6603100.7	Commercial	ug/kg	0	ug/kg				<1	6.0	<1											2.0	7.0								1.0		
2-Methylphenol	46100000	POS PARK	ug/kg	0	ug/kg																	<100	<100								<100		
1,2-Dichlorobenzene	2020000	Commercial	ug/kg	0	ug/kg				<1	<1	<1											<1	<1								1.0		
2-Chlorophenol	1010000	POS PARK	ug/kg	0	ug/kg																	<100	<100								<100		
1,2,4-Trimethylbenzene	39400	Commercial	ug/kg	5	ug/kg				<1	439.0	4.0											39.0	36.0								9.0		
2,4,5-Trichlorophenol	1010000	POS PARK	ug/kg	0	ug/kg																	<100	<100								<100		
Isopropylbenzene	1300000	Commercial	ug/kg	0	ug/kg				<1	61.0	<1											2.0	5.0								<1		
Nitrobenzene	26597881.1	Commercial	ug/kg	0	ug/kg																	<100	<100								<100		
4-Isopropyltoluene	1300000	Commercial	ug/kg	0	ug/kg				<1	15.0	<1											2.0	9.0								7.0		
m & p Xylene	5923262.7	Commercial	ug/kg	0	ug/kg				<1	29.0	<1											187.0	30.0								6.0		
Aro >C8-C9	7220	POS PARK	mg/kg	0	mg/kg		<0.01	<0.01	<0.01	<0.01	0.3	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	4.1	0.2	0.2	<0.01	<0.01	0.0	<0.01	0.0	<0.01	0.0	<0.01	<0.01
Aro >C9-C10	7220	POS PARK	mg/kg	0	mg/kg		<0.01	<0.01	<0.01	<0.01	5.2	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	1.7	0.7	1.4	0.1	0.1	0.0	<0.01	0.3	<0.01	<0.01	<0.01	
Tributyltin SUBCON I2	42400000	POS PARK	ug/kg	0	ug/kg																												
Atrazine SUBCON Alcontrol	379000000	POS Maintenance	ug/kg	0	ug/kg																												
Aldrin SUBCON Alcontrol	7800000	POS PARK	ug/kg	0	ug/kg																												
alpha-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	46500000	POS PARK	ug/kg	0	ug/kg																												
beta-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	13300000	POS PARK	ug/kg	0	ug/kg																												
Endosulphan II	1960000000	POS Maintenance	ug/kg	0	ug/kg																												
Dieldrin SUBCON Alcontrol	12900000	POS PARK	ug/kg	0	ug/kg																												
Dichlorvos	26000000	POS PARK	ug/kg	0	ug/kg																												
Endosulphan I	1950000000	POS Maintenance	ug/kg	0	ug/kg																												
Aro >C35-C44	7820	POS PARK	mg/kg	0	mg/kg																												
Ali >C35-C44	455000	POS PARK	mg/kg	0	mg/kg																												
Anthracene SVOC	149000000	POS PARK	ug/kg	0	ug/kg																												
Pyrene SVOC	15100000	POS PARK	ug/kg	0	ug/kg																												
Benzo(ghi)perylene SVOC	612000	POS Maintenance	ug/kg	0	ug/kg																												
Indeno(1,2,3-cd)pyrene SVOC	44000	POS Maintenance	ug/kg	1	ug/kg																												
Benzo(b)fluoranthene SVOC	13200	POS PARK	ug/kg	7	ug/kg																												
Fluoranthene SVOC	6300000	POS PARK	ug/kg	0	ug/kg																												

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	PFCPRC29	PFCPRC37	PFCPRC37	PFCPRC37	PFCPRC37	PFCPRC37	PFCPRC38 (SP)	PFCPRC39	PFCPRC39	PFCPRC39	PFCPRC39	PFCPRC40 (SP)	PFCPRC40 (SP)	PFCPRC40 (SP)	PFCPRC40 (SP)	PFCPRC40 (SP)	PFCPRC41	PFCPRC41	PFCPRC41 A (SP)	PFCPRC42 (SP)	PFCPRC42 (SP)	PFCPRC43 (SP)	PFCPRC43 (SP)
					Sample Top	Sample Ref	Sample Type	7.00	1.00	10.00	3.00	6.00	8.00	0.70	0.60	3.00	4.00	9.00	0.80	14.50	2.00	4.70	9.70	3.50	6.80	9.50	15.50	0.90
Benzo(k)fluoranthene SVOC	114000	POS Maintenance	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Acenaphthylene SVOC	28900000	POS PARK	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Chrysene SVOC	91000	POS Maintenance	ug/kg	1	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Benzo(a)pyrene SVOC	10800	POS PARK	ug/kg	8	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Dibenzo(ah)anthracene SVOC	1150	POS PARK	ug/kg	10	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Benzo(a)anthracene SVOC	48800	POS PARK	ug/kg	2	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Acenaphthene SVOC	28900000	POS PARK	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Phenanthrene SVOC	6170000	POS PARK	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Fluorene SVOC	19600000	POS PARK	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Naphthalene SVOC	193000	Commercial	ug/kg	1	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Xylenols	9180	POS PARK	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Cresols	46100	POS PARK	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Tributyltin	42400	POS PARK	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Methyl tert-butyl ether (MTBE)	7480000	Commercial	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Aromatics >C6-7	27000000	Commercial	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Aromatics >C7-8	56293712.8	Commercial	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Aromatics >C8-10	3460000	Commercial	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Aromatics >C10-12	9240000	POS PARK	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Aromatics >C12-16	10200000	POS PARK	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Aromatics >C16-21	7630000	POS PARK	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Aromatics >C21-35	7820000	POS PARK	ug/kg	1	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Aromatics >C35-44	7820000	POS PARK	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Aliphatics >C5-6	3190000	Commercial	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Aliphatics >C6-8	7780000	Commercial	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Aliphatics >C8-10	2000000	Commercial	ug/kg	1	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Aliphatics >C10-12	9690000	Commercial	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Aliphatics >C12-16	24700000	POS PARK	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Aliphatics >C16-21	455000000	POS PARK	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Aliphatics >C21-35	455000000	POS PARK	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Aliphatics >C35-44	455000000	POS PARK	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Trivalent Chromium	33000	POS PARK	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Molybdenum	2890	POS PARK	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
4-Nitroaniline	10800	POS PARK	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Azobenzene	10800	POS PARK	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
4-Chloroaniline	10800000	POS PARK	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
2-Nitroaniline	10800	POS PARK	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	PFCPRC43 (SP)	PFCPRC43 (SP)	PFCPRC44 (SP)	PFCPRC44 (SP)	PFCPRC44 (SP)	PFCPRC45 (SP)	PFCPRC45 (SP)	PFCPRC46 (SP)	PFCPRC46 (SP)	PFCPRC55	PFCPRC55	PFTPH03	PFTPH06A	PFTPH13	PFWS01	PFWS01	PFWS02A	PFWS05 (SP)	PFWS07	PFWS08	PFWS09	PFWS10	PFWS12	PFWS12	PFWS13	
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Ethylbenzene	5705.5	Commercial	mg/kg	0	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Toluene	56293.7	Commercial	mg/kg	0	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Anthracene	149000	POS PARK	mg/kg	0	mg/kg	<0.02	0.6	0.0	<0.02	<0.02	1.9	<0.02	<0.02	0.0	<0.02	<0.02	<0.02	<0.02	0.3	<0.02	<0.02	<0.02	0.1	<0.02	<0.02	<0.02	0.3	0.0	5.2	0.1	
Pyrene	15100	POS PARK	mg/kg	0	mg/kg	<0.07	5.2	0.3	0.1	<0.07	5.9	0.1	<0.07	<0.07	<0.07	<0.07	0.3	1.7	<0.07	0.1	<0.07	0.6	<0.07	0.3	0.5	3.1	1.3	23.6	0.7		
Xylene	6603.1	Commercial	mg/kg	0	mg/kg																										
Benzo (g,h,i) perylene	612	POS Maintenance	mg/kg	0	mg/kg	<0.05	1.0	0.1	<0.05	<0.05	0.8	<0.05	<0.05	<0.05	<0.05	0.1	0.3	0.7	<0.05	0.1	<0.05	0.2	<0.05	0.2	0.2	0.7	0.2	3.4	0.4		
Indeno(1,2,3-cd)pyrene	44	POS Maintenance	mg/kg	0	mg/kg	<0.03	1.1	0.1	<0.03	<0.03	0.9	<0.03	<0.03	<0.03	<0.03	0.1	0.3	0.9	<0.03	0.0	<0.03	0.2	<0.03	0.2	0.2	0.9	0.3	4.8	0.4		
Benzo(b)fluoranthene	13.2	POS PARK	mg/kg	4	mg/kg	<0.05	2.2	0.1	0.2	<0.05	1.8	<0.05	<0.05	<0.05	<0.05	0.1	0.4	1.3	<0.05	0.1	<0.05	0.4	<0.05	0.2	0.3	1.8	0.5	10.3	0.6		
Fluoranthene	6300	POS PARK	mg/kg	0	mg/kg	<0.08	4.4	0.3	<0.08	<0.08	7.3	<0.08	<0.08	<0.08	<0.08	0.4	1.9	<0.08	0.1	<0.08	0.7	<0.08	0.3	0.5	3.7	0.7	26.7	0.7			
Benzo(k)fluoranthene	114	POS Maintenance	mg/kg	0	mg/kg	<0.07	0.9	<0.07	<0.07	<0.07	0.9	<0.07	<0.07	<0.07	<0.07	0.2	0.5	<0.07	<0.07	<0.07	0.2	<0.07	0.1	0.1	0.8	0.2	4.8	0.3			
Acenaphthylene	28900	POS PARK	mg/kg	0	mg/kg	<0.01	0.1	<0.01	<0.01	<0.01	0.2	<0.01	<0.01	<0.01	<0.01	<0.01	0.0	0.0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.1	0.1	0.1	<0.01	
Chrysene	91	POS Maintenance	mg/kg	0	mg/kg	<0.06	1.9	0.2	0.1	<0.06	2.3	0.1	<0.06	<0.06	<0.06	<0.06	0.3	1.0	<0.06	0.1	<0.06	0.3	<0.06	0.2	0.3	1.7	0.6	10.6	0.5		
Benzo(a)pyrene	10.8	POS PARK	mg/kg	4	mg/kg	<0.04	1.7	0.1	<0.04	<0.04	1.6	<0.04	<0.04	<0.04	<0.04	0.1	0.4	1.2	<0.04	0.0	<0.04	0.3	<0.04	0.2	0.2	1.7	0.6	9.3	0.6		
Dibenz-a-h-anthracene	1.15	POS PARK	mg/kg	5	mg/kg	<0.04	0.2	<0.04	<0.04	<0.04	0.2	<0.04	<0.04	<0.04	<0.04	0.1	0.2	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.1	0.2	0.1	1.1	0.1	
Benzo(a)anthracene	48.8	POS PARK	mg/kg	0	mg/kg	<0.04	2.0	0.1	0.0	<0.04	2.4	0.1	<0.04	<0.04	<0.04	0.1	0.2	0.9	<0.04	0.0	<0.04	0.3	<0.04	0.2	0.2	1.9	0.7	12.6	0.4		
Cyanide	24	POS PARK	mg/kg	5	mg/kg																										
Benzene	26.60	Commercial	mg/kg	0	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Lead	1300	POS PARK	mg/kg	13	mg/kg	6.0	113.0	45.0	247.0	29.0	20.0	34.0	15.0	11.0	18.0	24.0	66.0	36.0	27.0	27.0	9.0	8.0	17.0	36.0	29.0	44.0	7.0	16.0	37.0		
Mercury	244	POS PARK	mg/kg	0	mg/kg	0.3	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	0.8	0.6	0.6	1.4	<0.17	<0.17	<0.17	<0.17	0.6	0.6	0.7	<0.17	<0.17	<0.17	<0.17	0.2		
Nickel	804	POS PARK	mg/kg	8	mg/kg	12.0	38.0	29.0	28.0	38.0	12.0	22.0	19.0	7.0	18.0	10.0	16.0	28.0	14.0	10.0	5.0	15.0	7.0	26.0	18.0	55.0	29.0	8.0	23.0		
Antimony	3290	POS PARK	mg/kg	0	mg/kg																										
Arsenic	168	POS PARK	mg/kg	0	mg/kg	<1	15.0	6.0	13.0	6.0	3.0	9.0	10.0	1.0	3.0	<1	3.0	9.0	6.0	5.0	5.0	<1	2.0	7.0	4.0	36.0	9.0	<1	11.0		
Beryllium	11.7	Commercial	mg/kg	1	mg/kg	<1	1.0	1.0	2.0	2.0	1.0	1.0	1.0	<1	1.0	<1	<1	2.0	1.0	1.0	<1	1.0	<1	1.0	1.0	1.0	1.0	1.0	3.0	1.0	
Boron	46200	POS PARK	mg/kg	0	mg/kg	<1.0	3.2	1.1	3.4	1.5	<1.0	<1.0	1.3	1.6	7.4	1.6	1.7	3.2	<1.0	<1.0	<1.0	3.0	<1.0	2.0	1.7	<1.0	<1.0	2.2	1.5		
Cadmium	190	Commercial	mg/kg	0	mg/kg	<0.5	2.5	1.9	2.8	2.3	0.7	1.7	2.3	<0.5	1.1	<0.5	1.8	1.7	1.3	1.0	1.2	0.9	0.7	1.8	1.3	4.0	0.6	0.7	2.5		
Chromium	8570	Commercial	mg/kg	1	mg/kg	7.0	131.0	36.0	33.0	50.0	15.0	38.0	44.0	7.0	17.0	11.0	28.0	33.0	28.0	16.0	13.0	12.0	8.0	29.0	21.0	16.0	12.0	17.0	59.0		
Copper	44400	POS PARK	mg/kg	2	mg/kg	7.0	224.0	24.0	60.0	27.0	7.0	16.0	10.0	8.0	26.0	20.0	49.0	178.0	31.0	27.0	3.0	6.0	11.0	33.0	18.0	12.0	57.0	22.0	25.0		
Vanadium	2820	POS Maintenance	mg/kg	0	mg/kg																										
Zinc	173000	POS PARK	mg/kg	0	mg/kg	25.0	114.0	89.0	1010.0	126.0	33.0	55.0	39.0	28.0	61.0	49.0	209.0	75.0	41.0	34.0	20.0	29.0	55.0	98.0	74.0	121.0	27.0	38.0	73.0		
Selenium	1850	POS PARK	mg/kg	0	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.0	<1	<1	<1	<1	<1	<1	<1	<1	<1	2.0	1.0
Acenaphthene	28900	POS PARK	mg/kg	0	mg/kg	<0.01	0.2	<0.01	<0.01	<0.01	0.6	0.0	<0.01	0.1	<0.01	<0.01	<0.01	0.1	<0.01	<0.01	<0.01	0.0	<0.01	0.0	<0.01	0.0	<0.01	0.1	<0.01	1.2	0.0
Phenanthrene	6170	POS PARK	mg/kg	0	mg/kg	<0.03	2.0	0.1	0.0	<0.03	6.1	0.0	<0.03	0.1	<0.03	<0.03	0.1	0.9	<0.03	0.1	<0.03	0.2	<0.03	0.1	0.1	1.5	0.1	12.8	0.3		
Fluorene	19600	POS PARK	mg/kg	0	mg/kg	<0.01	0.3	<0.01	<0.01	<0.01	0.9	<0.01	<0.01	0.0	<0.01	<0.01	0.1	<0.01	0.0	<0.01	0.0	<0.01	<0.01	<0.01	<0.01	<0.01	0.1	<0.01	1.3	<0.01	
Napthalene	193	Commercial	mg/kg	0	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03	0.5	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	
Phenol (Monohydric)	7600	POS Maintenance	mg/kg	0	mg/kg																										
Aromatics >C7-8	56293.7	Commercial	mg/kg	0	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Aromatics >C8-10	3460	Commercial	mg/kg	0	mg/kg																										
Aromatics >C10-12	9240	POS PARK	mg/kg	0	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Aromatics >C12-16	10200	POS PARK	mg/kg	0	mg/kg	<0.1	0.6	<0.1	<0.1	<0.1	0.9	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	50.4	<0.1	
Aromatics >C16-21	7630	POS PARK	mg/kg	0	mg/kg	<0.1	6.1	<0.1	3.1	<0.1	4.6	<0.1	<0.1	<0.1	<0.1	<															

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	PFCPRC43 (SP)	PFCPRC43 (SP)	PFCPRC44 (SP)	PFCPRC44 (SP)	PFCPRC44 (SP)	PFCPRC45 (SP)	PFCPRC45 (SP)	PFCPRC46 (SP)	PFCPRC55	PFCPRC55	PFTPH03	PFTPH06A	PFTPH13	PFWS01	PFWS01	PFWS02A	PFWS05 (SP)	PFWS07	PFWS08	PFWS09	PFWS10	PFWS12	PFWS12	PFWS13	
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
n-propylbenzene	3860	Commercial	mg/kg	0	mg/kg																									
n-Butylbenzene	26.598	Commercial	mg/kg	0	mg/kg																									
2,4-Dimethylphenol	9180	POS PARK	mg/kg	0	mg/kg																									
3/4 Methylphenol	46000	POS PARK	mg/kg	0	mg/kg																									
1,4-Dichlorobenzene	4220	Commercial	mg/kg	0	mg/kg																									
1,2-Dichloroethane	0.671	Commercial	mg/kg	0	mg/kg																									
1,3,5-Trimethylbenzene	39.4	Commercial	mg/kg	0	mg/kg																									
Bromobenzene	91.5	Commercial	mg/kg	0	mg/kg																									
Chlorobenzene	55.6	Commercial	mg/kg	0	mg/kg																									
Phenol	7600	POS PARK	mg/kg	0	mg/kg																									
Bis(2-chloroethoxy)methane	0.956	Commercial	mg/kg	0	mg/kg																									
Bis(2-ethylhexyl)phthalate	16600	POS PARK	mg/kg	0	mg/kg																									
Di-N-Octyl Phthalate	20000	POS PARK	mg/kg	0	mg/kg																									
Hexachlorobenzene (HCB)	28.9	POS PARK	mg/kg	0	mg/kg																									
1,2,4-Trichlorobenzene	215	Commercial	mg/kg	0	mg/kg																									
2,4-Dichlorophenol	977	POS PARK	mg/kg	0	mg/kg																									
2,4-Dinitrotoluene	928	POS PARK	mg/kg	0	mg/kg																									
Dibromochloromethane	1.96	Commercial	mg/kg	0	mg/kg																									
Tetrachloroethene	18.6	Commercial	mg/kg	0	mg/kg																									
Dimethylphthalate	2630	POS PARK	mg/kg	0	mg/kg																									
Dibenzofuran	10.8	POS PARK	mg/kg	0	mg/kg																									
Sec-Butylbenzene	26.6	Commercial	mg/kg	0	mg/kg																									
cis-1,2-Dichloroethene	13.6	Commercial	mg/kg	0	mg/kg																									
trans-1,2-Dichloroethene	20.7	Commercial	mg/kg	0	mg/kg																									
Methyl tert-butyl ether (MTBE)	7480	Commercial	mg/kg	0	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
1,3-Dichlorobenzene	29.9	Commercial	mg/kg	0	mg/kg																									
Tetrachloromethane (Carbon Tetra Chloride)	2.87	Commercial	mg/kg	0	mg/kg																									
2,3,4,6-Tetrachlorophenol	1000	POS PARK	mg/kg	0	mg/kg																									
4-Chloro-3-Methylphenol	46100	POS PARK	mg/kg	0	mg/kg																									
2,6-Dinitrotoluene	468	POS PARK	mg/kg	0	mg/kg																									
1,1,1,2-Tetrachloroethane	108	Commercial	mg/kg	0	mg/kg																									
Chloroform	99.1	Commercial	mg/kg	0	mg/kg																									
1,1,1-Trichloroethane	660	Commercial	mg/kg	0	mg/kg																									
Chloroethene	0.0594	Commercial	mg/kg	0	mg/kg																									
Tribromomethane	714	Commercial	mg/kg	0	mg/kg																									
Bromodichloromethane	1.96	Commercial	mg/kg	0	mg/kg																									
1,1-Dichloroethane	263	Commercial	mg/kg	0	mg/kg																									
1,1-Dichloroethene	24.3	Commercial	mg/kg	0	mg/kg																									
1,2-Dichloropropane	3.13	Commercial	mg/kg	0	mg/kg																									
1,1,2-Trichloroethane	89.1	Commercial	mg/kg	0	mg/kg																									
Trichloroethene	1.23	Commercial	mg/kg	0	mg/kg																									
Diethylphthalate	89300	POS PARK	mg/kg	0	mg/kg																									
Di-N-Butyl Phthalate	2630	POS PARK	mg/kg	0	mg/kg																									
Butylbenzylphthalate	254000	POS PARK	mg/kg	0	mg/kg																									
Carbazole	10.8	POS PARK	mg/kg	0	mg/kg																									
1,2,3 Trichlorobenzene	102	Commercial	mg/kg	0	mg/kg																									
Hexachlorobutadiene (HCBD)	30.7	Commercial	mg/kg	0	mg/kg																									
Pentachlorophenol (PCP)	113	POS PARK	mg/kg	0	mg/kg																									
2,4,6-Trichlorophenol	1010	POS PARK	mg/kg	0	mg/kg																									
2-Nitroaniline	10.8	POS PARK	mg/kg	0	mg/kg																									
2-Methylnaphthalene	193	Commercial	mg/kg	0	mg/kg																									
2-Chloronaphthalene	370	Commercial	mg/kg	0	mg/kg																									
2,3,5,6-Tetrachlorophenol	1000	POS PARK	mg/kg	0	mg/kg																									

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	PFCPRC43 (SP)	PFCPRC43 (SP)	PFCPRC44 (SP)	PFCPRC44 (SP)	PFCPRC44 (SP)	PFCPRC45 (SP)	PFCPRC45 (SP)	PFCPRC46 (SP)	PFCPRC55	PFCPRC55	PFTPH03	PFTPH06A	PFTPH13	PFWS01	PFWS01	PFWS02A	PFWS05 (SP)	PFWS07	PFWS08	PFWS09	PFWS10	PFWS12	PFWS12	PFWS13	
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
O-Xylene	6603.1	Commercial	mg/kg	0	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2-Methylphenol	46100	POS PARK	mg/kg	0	mg/kg																									
1,2-Dichlorobenzene	2020	Commercial	mg/kg	0	mg/kg																									
2-Chlorophenol	1010	POS PARK	mg/kg	0	mg/kg																									
1,2,4-Trimethylbenzene	39.4	Commercial	mg/kg	0	mg/kg																									
2,4,5-Trichlorophenol	1010	POS PARK	mg/kg	0	mg/kg																									
Isopropylbenzene	1300	Commercial	mg/kg	0	mg/kg																									
4-Isopropyltoluene	1300	Commercial	mg/kg	0	mg/kg																									
m,p xylenes	5923.3	Commercial	mg/kg	0	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium - Hexavalent	220	POS PARK	mg/kg	0	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cyanide Free	168	Commercial	mg/kg	0	mg/kg																									
Complex Cyanide	3460	POS PARK	mg/kg	0	mg/kg																									
4-Nitrophenol	7600000	POS PARK	ug/kg	0	ug/kg		<100		<100	<100									<100	<100								<200		
Ethylbenzene	5705504.8	Commercial	ug/kg	0	ug/kg		<1		<1	<1									<1	<1								<1		
Styrene	3170000	Commercial	ug/kg	0	ug/kg		<1		<1	<1									<1	<1								<1		
n-Propylbenzene	3860000	Commercial	ug/kg	0	ug/kg		<1		<1	<1									<1	<1								<1		
n-Butylbenzene	26597.9	Commercial	ug/kg	0	ug/kg		<1		<1	<1									<1	<1								<1		
2,4-Dimethylphenol	9180000	POS PARK	ug/kg	0	ug/kg		<100		<100	<100									<100	<100								<200		
4-Methylphenol	46000000	POS PARK	ug/kg	0	ug/kg		<100		<100	<100									<100	<100								<200		
1,4-Dichlorobenzene	4220000	Commercial	ug/kg	0	ug/kg		<1		<1	<1									<1	<1								<1		
1,2-Dichloroethane	671	Commercial	ug/kg	0	ug/kg		<2		<2	<2									<2	<2								<2		
1,3,5-Trimethylbenzene	39400	Commercial	ug/kg	3	ug/kg		<1		<1	<1									<1	<1								<1		
Bromobenzene	91500	Commercial	ug/kg	0	ug/kg		<1		<1	<1									<1	<1								<1		
Toluene VOC	56293712.79	Commercial	ug/kg	0	ug/kg		<1		<1	<1									<1	<1								<1		
Chlorobenzene	55600	Commercial	ug/kg	0	ug/kg		<1		<1	<1									<1	<1								<1		
Phenol SVOC	7600000	POS PARK	ug/kg	0	ug/kg		<100		<100	<100									<100	<100								<200		
Bis(2-chloroethoxy)methane	956	Commercial	ug/kg	1	ug/kg		<100		<100	<100									<100	<100								<200		
Bis(2-ethylhexyl)phthalate	16600000	POS PARK	ug/kg	0	ug/kg		<100		<100	<100									<100	<100								<200		
n-Diethylphthalate	20000000	POS PARK	ug/kg	0	ug/kg		<100		482.0	<100									<100	<100								<200		
Hexachlorobenzene	28900	POS PARK	ug/kg	0	ug/kg		<100		<100	<100									<100	<100								<200		
1,2,4-Trichlorobenzene	215000	Commercial	ug/kg	0	ug/kg		<3		<3	<3									<3	<3								<3		
2,4-Dichlorophenol	977000	POS PARK	ug/kg	0	ug/kg		<100		<100	<100									<100	<100								<200		
2,4-Dinitrotoluene	928000	POS PARK	ug/kg	0	ug/kg		<100		<100	<100									<100	<100								<200		
Dibromochloromethane	1960	Commercial	ug/kg	0	ug/kg		<3		<3	<3									<3	<3								<3		
Tetrachloroethene	18600	Commercial	ug/kg	0	ug/kg		<1		<1	<1									<1	<1								<1		
Dimethyl phthalate	2630000	POS PARK	ug/kg	0	ug/kg		<100		<100	<100									<100	<100								<200		
Dibenzofuran	10800	POS PARK	ug/kg	5	ug/kg		<100		<100	<100									<100	<100								<200		
sec-Butylbenzene	26597.8811	Commercial	ug/kg	0	ug/kg		<1		<1	<1									<1	<1								<1		
cis 1,2-Dichloroethene	13600	Commercial	ug/kg	0	ug/kg		<1		<1	<1									<1	<1								<1		
trans 1,2-Dichloroethene	20700	Commercial	ug/kg	0	ug/kg		<1		<1	<1									<1	<1								<1		
Perylene	10800000	POS PARK	ug/kg	0	ug/kg		1750.0		144.0	<100									<100	<100								<200		
1,3-Dichlorobenzene	29900	Commercial	ug/kg	0	ug/kg		<1		<1	<1									<1	<1								<1		
Carbon Tetrachloride	2870	Commercial	ug/kg	0	ug/kg		<1		<1	<1									<1	<1								<1		
4-Chloro-3-methylphenol	46100000	POS PARK	ug/kg	0	ug/kg		<100		<100	<100									<100	<100								<200		
2,6-Dinitrotoluene	468000	POS PARK	ug/kg	0	ug/kg		<100		<100	<100									<100	<100								<200		
1,1,1,2-Tetrachloroethane	108000	Commercial	ug/kg	0	ug/kg		<1		<1	<1									<1	<1								<1		
Chloroform	99100	Commercial	ug/kg	0	ug/kg		<1		<1	<1									<1	<1								<1		
Hexachloroethane	20900000	Commercial	ug/kg	0	ug/kg		<100		<100	<100									<100	<100								<200		
Benzene VOC	26597.9	Commercial	ug/kg	0	ug/kg		<1		<1	<1									<1	<1								<1		
1,1,1-Trichloroethane	660000	Commercial	ug/kg	0	ug/kg		<1		<1	<1									<1	<1								<1		
Barium	5770	POS PARK	mg/kg	0	mg/kg	29.0	180.0	134.0	217.0	83.0	52.0	86.0	50.0	69.0	242.0	213.0	2180.0	119.0	71.0	80.0	37.0	46.0	85.0	531.0	579.0	69.0	29.0	202.0	77.0	
Chloromethane	956000	Commercial	ug/kg	0	ug/kg		<10		<10	<10									<10	<10								<10		
Chloroethane	90400000	Commercial	ug/kg	0	ug/kg		<1		<1	<1									<1	<1								<1		

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	PFCPRC43 (SP)	PFCPRC43 (SP)	PFCPRC44 (SP)	PFCPRC44 (SP)	PFCPRC44 (SP)	PFCPRC45 (SP)	PFCPRC45 (SP)	PFCPRC46 (SP)	PFCPRC55	PFCPRC55	PFTPH03	PFTPH06A	PFTPH13	PFWS01	PFWS01	PFWS02A	PFWS05 (SP)	PFWS07	PFWS08	PFWS09	PFWS10	PFWS12	PFWS12	PFWS13
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Vinyl Chloride	59.4	Commercial	ug/kg	0	ug/kg		<0.2		<0.2	<0.2									<1	<1									<1
Dichloromethane VOC	257000000	Commercial	ug/kg	0	ug/kg		<10		<10	<10									<5	<5									<5
Carbon Disulphide	11000000	Commercial	ug/kg	0	ug/kg		<1		2.0	1.0									<1	<1									<1
Bromoform	714000	Commercial	ug/kg	0	ug/kg		<1		<1	<1									<1	<1									<1
Bromodichloromethane	1960	Commercial	ug/kg	0	ug/kg		<10		<10	<10									<10	<10									<10
1,1-Dichloroethane	263000	Commercial	ug/kg	0	ug/kg		<1		<1	<1									<1	<1									<1
1,1-Dichloroethene	24300	Commercial	ug/kg	0	ug/kg		<1		<1	<1									<1	<1									<1
Isophorone	26597881.1	Commercial	ug/kg	0	ug/kg		<100		<100	<100									<100	<100									<200
1,2-Dichloropropane	3130	Commercial	ug/kg	0	ug/kg		<1		<1	<1									<1	<1									<1
1,1,2-Trichloroethane	89100	Commercial	ug/kg	0	ug/kg		<1		<1	<1									<1	<1									<1
Trichloroethene	1230	Commercial	ug/kg	0	ug/kg		<1		<1	<1									<1	<1									<1
1,1,2,2-Tetrachloroethane	274000000	Commercial	ug/kg	0	ug/kg		<1		<1	<1									<1	<1									<1
Diethyl phthalate	89300000	POS PARK	ug/kg	0	ug/kg		<100		<100	<100									<100	<100									<200
n-Dibutylphthalate	2630000	POS PARK	ug/kg	0	ug/kg		<100		<100	<100									<100	<100									<200
Butylbenzyl phthalate SVOC	254000000	POS PARK	ug/kg	0	ug/kg		<100		<100	<100									<100	<100									<200
Carbazole	10800	POS PARK	ug/kg	2	ug/kg		198.0		<100	<100									<100	<100									<200
1,2,3-Trichlorobenzene	102000	Commercial	ug/kg	0	ug/kg		<3		<3	<3									<3	<3									<3
Hexachlorobutadiene	30700	Commercial	ug/kg	0	ug/kg		<1		<1	<1									<1	<1									<1
Pentachlorophenol	113000	POS PARK	ug/kg	0	ug/kg		<100		<100	<100									<100	<100									<200
2,4,6-Trichlorophenol	1010000	POS PARK	ug/kg	0	ug/kg		<100		<100	<100									<100	<100									<200
2-Nitrophenol	7600000000	POS PARK	ug/kg	0	ug/kg		<100		<100	<100									<100	<100									<200
2-Methylnaphthalene (SVOC) DEFAULT	193000	Commercial	ug/kg	2	ug/kg		<100		<100	<100									<100	<100									<200
2-Chloronaphthalene	370000	Commercial	ug/kg	0	ug/kg		<100		<100	<100									<100	<100									<200
o-Xylene	6603100.7	Commercial	ug/kg	0	ug/kg		<1		<1	<1									<1	<1									<1
2-Methylphenol	46100000	POS PARK	ug/kg	0	ug/kg		<100		<100	<100									<100	<100									<200
1,2-Dichlorobenzene	2020000	Commercial	ug/kg	0	ug/kg		<1		<1	<1									<1	<1									<1
2-Chlorophenol	1010000	POS PARK	ug/kg	0	ug/kg		<100		<100	<100									<100	<100									<200
1,2,4-Trimethylbenzene	39400	Commercial	ug/kg	5	ug/kg		<1		<1	<1									<1	<1									<1
2,4,5-Trichlorophenol	1010000	POS PARK	ug/kg	0	ug/kg		<100		<100	<100									<100	<100									<200
Isopropylbenzene	1300000	Commercial	ug/kg	0	ug/kg		<1		<1	<1									<1	<1									<1
Nitrobenzene	26597881.1	Commercial	ug/kg	0	ug/kg		<100		<100	<100									<100	<100									<200
4-Isopropyltoluene	1300000	Commercial	ug/kg	0	ug/kg		<1		<1	<1									<1	<1									<1
m & p Xylene	5923262.7	Commercial	ug/kg	0	ug/kg		<1		<1	<1									<1	<1									<1
Aro >C8-C9	7220	POS PARK	mg/kg	0	mg/kg		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Aro >C9-C10	7220	POS PARK	mg/kg	0	mg/kg		<0.01	0.0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Tributyltin SUBCON I2	42400000	POS PARK	ug/kg	0	ug/kg																								
Atrazine SUBCON Alcontrol	379000000	POS Maintenance	ug/kg	0	ug/kg																								
Aldrin SUBCON Alcontrol	7800000	POS PARK	ug/kg	0	ug/kg																								
alpha-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	46500000	POS PARK	ug/kg	0	ug/kg																								
beta-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	13300000	POS PARK	ug/kg	0	ug/kg																								
Endosulphan II	1960000000	POS Maintenance	ug/kg	0	ug/kg																								
Dieldrin SUBCON Alcontrol	12900000	POS PARK	ug/kg	0	ug/kg																								
Dichlorvos	26000000	POS PARK	ug/kg	0	ug/kg																								
Endosulphan I	1950000000	POS Maintenance	ug/kg	0	ug/kg																								
Aro >C35-C44	7820	POS PARK	mg/kg	0	mg/kg																								
Ali >C35-C44	455000	POS PARK	mg/kg	0	mg/kg																								
Anthracene SVOC	149000000	POS PARK	ug/kg	0	ug/kg																								
Pyrene SVOC	15100000	POS PARK	ug/kg	0	ug/kg																								
Benzo(ghi)perylene SVOC	612000	POS Maintenance	ug/kg	0	ug/kg																								
Indeno(1,2,3-cd)pyrene SVOC	44000	POS Maintenance	ug/kg	1	ug/kg																								
Benzo(b)fluoranthene SVOC	13200	POS PARK	ug/kg	7	ug/kg																								
Fluoranthene SVOC	6300000	POS PARK	ug/kg	0	ug/kg																								

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	PFCPRC43 (SP)	PFCPRC43 (SP)	PFCPRC44 (SP)	PFCPRC44 (SP)	PFCPRC44 (SP)	PFCPRC45 (SP)	PFCPRC45 (SP)	PFCPRC46 (SP)	PFCPRC55	PFCPRC55	PFTPH03	PFTPH06A	PFTPH13	PFWS01	PFWS01	PFWS02A	PFWS05 (SP)	PFWS07	PFWS08	PFWS09	PFWS10	PFWS12	PFWS12	PFWS13
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Benzo(k)fluoranthene SVOC	114000	POS Maintenance	ug/kg	0	ug/kg																								
Acenaphthylene SVOC	28900000	POS PARK	ug/kg	0	ug/kg																								
Chrysene SVOC	91000	POS Maintenance	ug/kg	1	ug/kg																								
Benzo(a)pyrene SVOC	10800	POS PARK	ug/kg	8	ug/kg																								
Dibenzo(ah)anthracene SVOC	1150	POS PARK	ug/kg	10	ug/kg																								
Benzo(a)anthracene SVOC	48800	POS PARK	ug/kg	2	ug/kg																								
Acenaphthene SVOC	28900000	POS PARK	ug/kg	0	ug/kg																								
Phenanthrene SVOC	6170000	POS PARK	ug/kg	0	ug/kg																								
Fluorene SVOC	19600000	POS PARK	ug/kg	0	ug/kg																								
Naphthalene SVOC	193000	Commercial	ug/kg	1	ug/kg																								
Xylenols	9180	POS PARK	mg/kg	0	mg/kg																								
Cresols	46100	POS PARK	mg/kg	0	mg/kg																								
Tributyltin	42400	POS PARK	mg/kg	0	mg/kg																								
Methyl tert-butyl ether (MTBE)	7480000	Commercial	ug/kg	0	ug/kg																								
Aromatics >C6-7	27000000	Commercial	ug/kg	0	ug/kg																								
Aromatics >C7-8	56293712.8	Commercial	ug/kg	0	ug/kg																								
Aromatics >C8-10	3460000	Commercial	ug/kg	0	ug/kg																								
Aromatics >C10-12	9240000	POS PARK	ug/kg	0	ug/kg																								
Aromatics >C12-16	10200000	POS PARK	ug/kg	0	ug/kg																								
Aromatics >C16-21	7630000	POS PARK	ug/kg	0	ug/kg																								
Aromatics >C21-35	7820000	POS PARK	ug/kg	1	ug/kg																								
Aromatics >C35-44	7820000	POS PARK	ug/kg	0	ug/kg																								
Aliphatics >C5-6	3190000	Commercial	ug/kg	0	ug/kg																								
Aliphatics >C6-8	7780000	Commercial	ug/kg	0	ug/kg																								
Aliphatics >C8-10	2000000	Commercial	ug/kg	1	ug/kg																								
Aliphatics >C10-12	9690000	Commercial	ug/kg	0	ug/kg																								
Aliphatics >C12-16	24700000	POS PARK	ug/kg	0	ug/kg																								
Aliphatics >C16-21	455000000	POS PARK	ug/kg	0	ug/kg																								
Aliphatics >C21-35	455000000	POS PARK	ug/kg	0	ug/kg																								
Aliphatics >C35-44	455000000	POS PARK	ug/kg	0	ug/kg																								
Trivalent Chromium	33000	POS PARK	mg/kg	0	mg/kg																								
Molybdenum	2890	POS PARK	mg/kg	0	mg/kg																								
4-Nitroaniline	10800	POS PARK	ug/kg	0	ug/kg																								
Azobenzene	10800	POS PARK	ug/kg	0	ug/kg																								
4-Chloroaniline	10800000	POS PARK	ug/kg	0	ug/kg																								
2-Nitroaniline	10800	POS PARK	ug/kg	0	ug/kg																								

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Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	PFWS16	PFWS26	PFWS27	PFWS28	PFWS31	PFWS31	PFWS32	PFWS34	PFWS37	PFWS40	PFWS41	PFWS44	AEC18-LF-PFWS61A	AEC18-LF-PFWS61A	AEC18-LF-PFWS61A	PFWSHH01	PFWSHH03	PFWSHH04	AEC18-LF-TP202	AEC18-LF-TP202	AEC18-LF-TP202	AEC18-LF-TP203 (PFTP14)	AEC18-LF-TP203 (PFTP14)	AEC18-LF-TP203 (PFTP14)	
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
n-propylbenzene	3860	Commercial	mg/kg	0	mg/kg																									
n-Butylbenzene	26.598	Commercial	mg/kg	0	mg/kg																									
2,4-Dimethylphenol	9180	POS PARK	mg/kg	0	mg/kg																									
3/4 Methylphenol	46000	POS PARK	mg/kg	0	mg/kg																									
1,4-Dichlorobenzene	4220	Commercial	mg/kg	0	mg/kg																									
1,2-Dichloroethane	0.671	Commercial	mg/kg	0	mg/kg																									
1,3,5-Trimethylbenzene	39.4	Commercial	mg/kg	0	mg/kg																									
Bromobenzene	91.5	Commercial	mg/kg	0	mg/kg																									
Chlorobenzene	55.6	Commercial	mg/kg	0	mg/kg																									
Phenol	7600	POS PARK	mg/kg	0	mg/kg														<0.01	<0.01	<0.01				<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bis(2-chloroethoxy)methane	0.956	Commercial	mg/kg	0	mg/kg																									
Bis(2-ethylhexyl)phthalate	16600	POS PARK	mg/kg	0	mg/kg																									
Di-N-Octyl Phthalate	20000	POS PARK	mg/kg	0	mg/kg																									
Hexachlorobenzene (HCB)	28.9	POS PARK	mg/kg	0	mg/kg																									
1,2,4-Trichlorobenzene	215	Commercial	mg/kg	0	mg/kg																									
2,4-Dichlorophenol	977	POS PARK	mg/kg	0	mg/kg																									
2,4-Dinitrotoluene	928	POS PARK	mg/kg	0	mg/kg																									
Dibromochloromethane	1.96	Commercial	mg/kg	0	mg/kg																									
Tetrachloroethene	18.6	Commercial	mg/kg	0	mg/kg																									
Dimethylphthalate	2630	POS PARK	mg/kg	0	mg/kg																									
Dibenzofuran	10.8	POS PARK	mg/kg	0	mg/kg																									
Sec-Butylbenzene	26.6	Commercial	mg/kg	0	mg/kg																									
cis-1,2-Dichloroethene	13.6	Commercial	mg/kg	0	mg/kg																									
trans-1,2-Dichloroethene	20.7	Commercial	mg/kg	0	mg/kg																									
Methyl tert-butyl ether (MTBE)	7480	Commercial	mg/kg	0	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01				<0.01	<0.01	<0.01							
1,3-Dichlorobenzene	29.9	Commercial	mg/kg	0	mg/kg																									
Tetrachloromethane (Carbon Tetra Chloride)	2.87	Commercial	mg/kg	0	mg/kg																									
2,3,4,6-Tetrachlorophenol	1000	POS PARK	mg/kg	0	mg/kg																									
4-Chloro-3-Methylphenol	46100	POS PARK	mg/kg	0	mg/kg																									
2,6-Dinitrotoluene	468	POS PARK	mg/kg	0	mg/kg																									
1,1,1,2-Tetrachloroethane	108	Commercial	mg/kg	0	mg/kg																									
Chloroform	99.1	Commercial	mg/kg	0	mg/kg																									
1,1,1-Trichloroethane	660	Commercial	mg/kg	0	mg/kg																									
Chloroethene	0.0594	Commercial	mg/kg	0	mg/kg																									
Tribromomethane	714	Commercial	mg/kg	0	mg/kg																									
Bromodichloromethane	1.96	Commercial	mg/kg	0	mg/kg																									
1,1-Dichloroethane	263	Commercial	mg/kg	0	mg/kg																									
1,1-Dichloroethene	24.3	Commercial	mg/kg	0	mg/kg																									
1,2-Dichloropropane	3.13	Commercial	mg/kg	0	mg/kg																									
1,1,2-Trichloroethane	89.1	Commercial	mg/kg	0	mg/kg																									
Trichloroethene	1.23	Commercial	mg/kg	0	mg/kg																									
Diethylphthalate	89300	POS PARK	mg/kg	0	mg/kg																									
Di-N-Butyl Phthalate	2630	POS PARK	mg/kg	0	mg/kg																									
Butylbenzylphthalate	254000	POS PARK	mg/kg	0	mg/kg																									
Carbazole	10.8	POS PARK	mg/kg	0	mg/kg																									
1,2,3 Trichlorobenzene	102	Commercial	mg/kg	0	mg/kg																									
Hexachlorobutadiene (HCBd)	30.7	Commercial	mg/kg	0	mg/kg																									
Pentachlorophenol (PCP)	113	POS PARK	mg/kg	0	mg/kg																									
2,4,6-Trichlorophenol	1010	POS PARK	mg/kg	0	mg/kg																									
2-Nitroaniline	10.8	POS PARK	mg/kg	0	mg/kg																									
2-Methylnaphthalene	193	Commercial	mg/kg	0	mg/kg																									
2-Chloronaphthalene	370	Commercial	mg/kg	0	mg/kg																									
2,3,5,6-Tetrachlorophenol	1000	POS PARK	mg/kg	0	mg/kg																									

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	PFWS16	PFWS26	PFWS27	PFWS28	PFWS31	PFWS31	PFWS32	PFWS34	PFWS37	PFWS40	PFWS41	PFWS44	AEC18-LF-PFWS61A	AEC18-LF-PFWS61A	AEC18-LF-PFWS61A	PFWSHH01	PFWSHH03	PFWSHH04	AEC18-LF-TP202	AEC18-LF-TP202	AEC18-LF-TP202	AEC18-LF-TP203 (PFTP14)	AEC18-LF-TP203 (PFTP14)	AEC18-LF-TP203 (PFTP14)
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
O-Xylene	6603.1	Commercial	mg/kg	0	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01				<0.01	<0.01	<0.01						
2-Methylphenol	46100	POS PARK	mg/kg	0	mg/kg																								
1,2-Dichlorobenzene	2020	Commercial	mg/kg	0	mg/kg																								
2-Chlorophenol	1010	POS PARK	mg/kg	0	mg/kg																								
1,2,4-Trimethylbenzene	39.4	Commercial	mg/kg	0	mg/kg																								
2,4,5-Trichlorophenol	1010	POS PARK	mg/kg	0	mg/kg																			<0.01					
Isopropylbenzene	1300	Commercial	mg/kg	0	mg/kg																								
4-Isopropyltoluene	1300	Commercial	mg/kg	0	mg/kg																								
m,p xylenes	5923.3	Commercial	mg/kg	0	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01				<0.01	<0.01	<0.01						
Chromium - Hexavalent	220	POS PARK	mg/kg	0	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1				<1	<1	<1						
Cyanide Free	168	Commercial	mg/kg	0	mg/kg																								
Complex Cyanide	3460	POS PARK	mg/kg	0	mg/kg																								
4-Nitrophenol	7600000	POS PARK	ug/kg	0	ug/kg					<100																	<500	<200	
Ethylbenzene	5705504.8	Commercial	ug/kg	0	ug/kg					<1															<4		<4	<4	
Styrene	3170000	Commercial	ug/kg	0	ug/kg					<1																	<10	<10	
n-Propylbenzene	3860000	Commercial	ug/kg	0	ug/kg					<1																	<10	<10	
n-Butylbenzene	26597.9	Commercial	ug/kg	0	ug/kg					<1																	<11	<11	
2,4-Dimethylphenol	9180000	POS PARK	ug/kg	0	ug/kg					<100																	<500	<200	
4-Methylphenol	46000000	POS PARK	ug/kg	0	ug/kg					<100																	<500	<200	
1,4-Dichlorobenzene	4220000	Commercial	ug/kg	0	ug/kg					<1																	<5	<200	
1,2-Dichloroethane	671	Commercial	ug/kg	0	ug/kg					<2																	<5	<5	
1,3,5-Trimethylbenzene	39400	Commercial	ug/kg	3	ug/kg					<1																	<8	<8	
Bromobenzene	91500	Commercial	ug/kg	0	ug/kg					<1																	<10	<10	
Toluene VOC	56293712.79	Commercial	ug/kg	0	ug/kg					<1															<7		<7	<7	
Chlorobenzene	55600	Commercial	ug/kg	0	ug/kg					<1																	<5	<5	
Phenol SVOC	7600000	POS PARK	ug/kg	0	ug/kg					<100																	<500	<200	
Bis(2-chloroethoxy)methane	956	Commercial	ug/kg	1	ug/kg					<100																	<500	<200	
Bis(2-ethylhexyl)phthalate	16600000	POS PARK	ug/kg	0	ug/kg					<100																	<500	<200	
n-Diethylphthalate	20000000	POS PARK	ug/kg	0	ug/kg					<100																	<500	<200	
Hexachlorobenzene	28900	POS PARK	ug/kg	0	ug/kg					<100													<50				<500	<200	
1,2,4-Trichlorobenzene	2150000	Commercial	ug/kg	0	ug/kg					<3																	<20	<20	
2,4-Dichlorophenol	977000	POS PARK	ug/kg	0	ug/kg					<100																	<500	<200	
2,4-Dinitrotoluene	928000	POS PARK	ug/kg	0	ug/kg					<100																	<500	<200	
Dibromochloromethane	1960	Commercial	ug/kg	0	ug/kg					<3																	<10	<10	
Tetrachloroethene	18600	Commercial	ug/kg	0	ug/kg					<1																	<5	<5	
Dimethyl phthalate	2630000	POS PARK	ug/kg	0	ug/kg					<100																	<500	<200	
Dibenzofuran	10800	POS PARK	ug/kg	5	ug/kg					<100																		1310.0	<200
sec-Butylbenzene	26597.8811	Commercial	ug/kg	0	ug/kg					<1																	<10	<10	
cis 1,2-Dichloroethene	13600	Commercial	ug/kg	0	ug/kg					<1																	<6	<6	
trans 1,2-Dichloroethene	20700	Commercial	ug/kg	0	ug/kg					<1																	<10	<10	
Perylene	10800000	POS PARK	ug/kg	0	ug/kg					104.0																			
1,3-Dichlorobenzene	29900	Commercial	ug/kg	0	ug/kg					<1																	<500	<200	
Carbon Tetrachloride	2870	Commercial	ug/kg	0	ug/kg					<1																	<10	<10	
4-Chloro-3-methylphenol	46100000	POS PARK	ug/kg	0	ug/kg					<100																	<500	<200	
2,6-Dinitrotoluene	468000	POS PARK	ug/kg	0	ug/kg					<100																	<500	<200	
1,1,1,2-Tetrachloroethane	108000	Commercial	ug/kg	0	ug/kg					<1																	<10	<10	
Chloroform	99100	Commercial	ug/kg	0	ug/kg					<1																	<8	<8	
Hexachloroethane	20900000	Commercial	ug/kg	0	ug/kg					<100																	<500	<200	
Benzene VOC	26597.9	Commercial	ug/kg	0	ug/kg					<1															<9		<9	<9	
1,1,1-Trichloroethane	660000	Commercial	ug/kg	0	ug/kg					<1																	<7	<7	
Barium	5770	POS PARK	mg/kg	0	mg/kg	58.0	50.0	145.0	163.0	85.0	106.0	76.0	102.0	62.0	71.0	71.0	113.0				118.0	134.0	185.0						
Chloromethane	956000	Commercial	ug/kg	0	ug/kg					<10																	<7	<7	
Chloroethane	904000000	Commercial	ug/kg	0	ug/kg					<1																	<10	<10	

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	PFWS16	PFWS26	PFWS27	PFWS28	PFWS31	PFWS31	PFWS32	PFWS34	PFWS37	PFWS40	PFWS41	PFWS44	AEC18-LF-PFWS61A	AEC18-LF-PFWS61A	AEC18-LF-PFWS61A	PFWSHH01	PFWSHH03	PFWSHH04	AEC18-LF-TP202	AEC18-LF-TP202	AEC18-LF-TP202	AEC18-LF-TP203 (PFTP14)	AEC18-LF-TP203 (PFTP14)	AEC18-LF-TP203 (PFTP14)		
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Vinyl Chloride	59.4	Commercial	ug/kg	0	ug/kg					<1																			<6	<6	
Dichloromethane VOC	257000000	Commercial	ug/kg	0	ug/kg					<5																			11.7	<10	
Carbon Disulphide	11000000	Commercial	ug/kg	0	ug/kg					<1																			17.1	<7	
Bromoform	714000	Commercial	ug/kg	0	ug/kg					<1																			<10	<10	
Bromodichloromethane	1960	Commercial	ug/kg	0	ug/kg					<10																			<7	<7	
1,1-Dichloroethane	263000	Commercial	ug/kg	0	ug/kg					<1																			<8	<8	
1,1-Dichloroethene	24300	Commercial	ug/kg	0	ug/kg					<1																			<10	<10	
Isophorone	26597881.1	Commercial	ug/kg	0	ug/kg					<100																			<500	<200	
1,2-Dichloropropane	3130	Commercial	ug/kg	0	ug/kg					<1																			<10	<10	
1,1,2-Trichloroethane	89100	Commercial	ug/kg	0	ug/kg					<1																			<10	<10	
Trichloroethene	1230	Commercial	ug/kg	0	ug/kg					<1																			<9	<9	
1,1,2,2-Tetrachloroethane	274000000	Commercial	ug/kg	0	ug/kg					<1																			<10	<10	
Diethyl phthalate	89300000	POS PARK	ug/kg	0	ug/kg					<100																			<500	<200	
n-Dibutylphthalate	2630000	POS PARK	ug/kg	0	ug/kg					<100																			<500	<200	
Butylbenzyl phthalate SVOC	254000000	POS PARK	ug/kg	0	ug/kg					<100																			<500	<200	
Carbazole	10800	POS PARK	ug/kg	2	ug/kg					<100																			661.0	<200	
1,2,3-Trichlorobenzene	102000	Commercial	ug/kg	0	ug/kg					<3																			<20	<20	
Hexachlorobutadiene	30700	Commercial	ug/kg	0	ug/kg					<1																			<20	<20	
Pentachlorophenol	113000	POS PARK	ug/kg	0	ug/kg					<100																			<500	<200	
2,4,6-Trichlorophenol	1010000	POS PARK	ug/kg	0	ug/kg					<100																			<500	<200	
2-Nitrophenol	7600000000	POS PARK	ug/kg	0	ug/kg					<100																			<500	<200	
2-Methylnaphthalene (SVOC) DEFAULT	193000	Commercial	ug/kg	2	ug/kg					<100																			<500	<200	
2-Chloronaphthalene	370000	Commercial	ug/kg	0	ug/kg					<100																			<500	<200	
o-Xylene	6603100.7	Commercial	ug/kg	0	ug/kg					<1															<10			<10	<10	<10	
2-Methylphenol	46100000	POS PARK	ug/kg	0	ug/kg					<100																			<500	<200	
1,2-Dichlorobenzene	2020000	Commercial	ug/kg	0	ug/kg					<1																			<10	<10	
2-Chlorophenol	1010000	POS PARK	ug/kg	0	ug/kg					<100																			<500	<200	
1,2,4-Trimethylbenzene	39400	Commercial	ug/kg	5	ug/kg					<1																			34.3	<9	
2,4,5-Trichlorophenol	1010000	POS PARK	ug/kg	0	ug/kg					<100																			<500	<200	
Isopropylbenzene	1300000	Commercial	ug/kg	0	ug/kg					<1																			<5	<5	
Nitrobenzene	26597881.1	Commercial	ug/kg	0	ug/kg					<100																			<500	<200	
4-Isopropyltoluene	1300000	Commercial	ug/kg	0	ug/kg					<1																			<10	<10	
m & p Xylene	5923262.7	Commercial	ug/kg	0	ug/kg					<1																<10		<10	<10	<10	
Aro >C8-C9	7220	POS PARK	mg/kg	0	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Aro >C9-C10	7220	POS PARK	mg/kg	0	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Tributyltin SUBCON I2	42400000	POS PARK	ug/kg	0	ug/kg																										
Atrazine SUBCON Alcontrol	379000000	POS Maintenance	ug/kg	0	ug/kg																										
Aldrin SUBCON Alcontrol	7800000	POS PARK	ug/kg	0	ug/kg																			<50							
alpha-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	46500000	POS PARK	ug/kg	0	ug/kg																			<50							
beta-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	13300000	POS PARK	ug/kg	0	ug/kg																			<50							
Endosulphan II	1960000000	POS Maintenance	ug/kg	0	ug/kg																			<50							
Dieldrin SUBCON Alcontrol	12900000	POS PARK	ug/kg	0	ug/kg																			<50							
Dichlorvos	26000000	POS PARK	ug/kg	0	ug/kg																			<50							
Endosulphan I	1950000000	POS Maintenance	ug/kg	0	ug/kg																			<50							
Aro >C35-C44	7820	POS PARK	mg/kg	0	mg/kg																										
Ali >C35-C44	455000	POS PARK	mg/kg	0	mg/kg																										
Anthracene SVOC	149000000	POS PARK	ug/kg	0	ug/kg																				22.9			928.0	372.0		
Pyrene SVOC	15100000	POS PARK	ug/kg	0	ug/kg																			159.0			11700.0	3610.0			
Benzo(ghi)perylene SVOC	612000	POS Maintenance	ug/kg	0	ug/kg																			82.5			1950.0	1420.0			
Indeno(1,2,3-cd)pyrene SVOC	44000	POS Maintenance	ug/kg	1	ug/kg																			113.0			1330.0	2340.0			
Benzo(b)fluoranthene SVOC	13200	POS PARK	ug/kg	7	ug/kg																			153.0			3510.0	1960.0			
Fluoranthene SVOC	6300000	POS PARK	ug/kg	0	ug/kg																			178.0			14500.0	4250.0			

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Sample Type	Hole Ref	AEC18-LF-TP204	AEC18-LF-TP204	AEC18-LF-TP205	AEC18-LF-TP205	AEC18-LF-TP206	AEC18-LF-TP206	AEC18-LF-TP207	AEC18-LF-TP207	AEC18-LF-TP208	AEC18-LF-TP208	AEC18-LF-TP209	AEC18-LF-TP209	AEC18-LF-TP210	AEC18-LF-TP210	AEC18-LF-TP211	AEC18-LF-TP211	AEC18-LF-TP212	AEC18-LF-TP212	AEC18-LF-TP213	AEC18-LF-TP213	AEC18-LF-TP213	AEC18-LF-TP213A	
						Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Ethylbenzene	5705.5	Commercial	mg/kg	0	mg/kg																								
Toluene	56293.7	Commercial	mg/kg	0	mg/kg																								
Anthracene	149000	POS PARK	mg/kg	0	mg/kg																								
Pyrene	15100	POS PARK	mg/kg	0	mg/kg																								
Xylene	6603.1	Commercial	mg/kg	0	mg/kg																								
Benzo (g,h,i) perylene	612	POS Maintenance	mg/kg	0	mg/kg																								
Indeno(1,2,3-cd)pyrene	44	POS Maintenance	mg/kg	0	mg/kg																								
Benzo(b)fluoranthene	13.2	POS PARK	mg/kg	4	mg/kg																								
Fluoranthene	6300	POS PARK	mg/kg	0	mg/kg																								
Benzo(k)fluoranthene	114	POS Maintenance	mg/kg	0	mg/kg																								
Acenaphthylene	28900	POS PARK	mg/kg	0	mg/kg																								
Chrysene	91	POS Maintenance	mg/kg	0	mg/kg																								
Benzo(a)pyrene	10.8	POS PARK	mg/kg	4	mg/kg																								
Dibenz-a-h-anthracene	1.15	POS PARK	mg/kg	5	mg/kg																								
Benzo(a)anthracene	48.8	POS PARK	mg/kg	0	mg/kg																								
Cyanide	24	POS PARK	mg/kg	5	mg/kg	<1	<1	<1	<1	<1	<1	5.4	<1	<0.5	<1	2.9	<1	3.7	<1	<1	<1	<0.5	<1	2.5	<1	<1	1.5	3.2	<1
Benzene	26.60	Commercial	mg/kg	0	mg/kg																								
Lead	1300	POS PARK	mg/kg	13	mg/kg	11.5	130.0	24.9	97.9	2.0	44.5	131.0	132.0	<0.002	89.2	459.0	85.7	109.0	403.0	27.0	70.6	0.0	48.5	255.0	99.7	44.6	224.0	274.0	71.0
Mercury	244	POS PARK	mg/kg	0	mg/kg	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	0.6	<0.14	<0.0001	<0.14	1.2	<0.14	1.6	<0.14	<0.14	<0.14	<0.0001	<0.14	1.0	<0.14	<0.14	<0.14	1.4	<0.14
Nickel	804	POS PARK	mg/kg	8	mg/kg	10.5	26.4	16.4	34.6	5.3	28.4	14.7	28.6	<0.004	17.6	102.0	12.0	104.0	32.9	32.3	28.9	5620.0	17.5	31.0	32.4	17.1	30.9	48.4	20.4
Antimony	3290	POS PARK	mg/kg	0	mg/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	1.4	<0.6	<0.01	0.9	3.5	<0.6	10.6	3.6	<0.6	<0.6	0.0	1.0	4.9	1.5	<0.6	<0.6	17.7	<0.6
Arsenic	168	POS PARK	mg/kg	0	mg/kg	4.4	24.6	10.4	23.7	1.5	23.3	10.4	22.3	0.0	10.4	12.2	9.0	15.3	17.6	9.5	15.7	0.0	8.4	14.4	12.4	10.6	18.5	15.1	15.0
Beryllium	11.7	Commercial	mg/kg	1	mg/kg	0.4	0.8	0.7	0.7	0.2	1.3	0.8	0.8	<0.001	0.9	0.9	0.8	<0.01	1.6	2.1	1.1	<0.001	0.7	0.9	1.5	1.5	1.7	0.8	1.3
Boron	46200	POS PARK	mg/kg	0	mg/kg	<1	1.7	<1	1.3	<1	1.5	<1	<1	0.7	1.4	10.8	<1	2.0	1.3	1.3	1.1	4.0	1.5	2.9	2.8	1.5	5.3	3.6	1.4
Cadmium	190	Commercial	mg/kg	0	mg/kg	0.1	0.3	0.4	0.7	0.1	0.5	0.1	0.4	<0.0008	0.9	0.9	0.4	3.6	1.1	0.6	0.6	<0.0008	0.1	1.6	0.5	0.2	0.3	2.9	0.1
Chromium	8570	Commercial	mg/kg	1	mg/kg	7.8	16.0	13.0	12.5	3.3	25.2	13.4	18.4	0.1	20.9	49.3	14.4	72.7	30.9	19.9	19.7	0.1	11.3	56.4	21.8	15.5	30.6	94.6	13.4
Copper	44400	POS PARK	mg/kg	2	mg/kg	7.5	37.0	13.9	22.9	4.1	29.4	26.7	36.4	<0.003	42.0	85.2	21.9	186.0	54.4	19.8	46.1	0.1	14.2	120.0	88.5	21.5	40.2	125.0	30.1
Vanadium	2820	POS Maintenance	mg/kg	0	mg/kg	14.5	30.5	29.4	34.9	5.4	46.5	30.1	40.0	<0.01	27.7	37.3	29.6	17.4	46.8	43.2	40.4	<0.01	46.2	27.9	46.0	41.5	67.7	23.3	39.8
Zinc	173000	POS PARK	mg/kg	0	mg/kg	33.6	200.0	54.1	130.0	15.9	113.0	103.0	305.0	0.0	189.0	330.0	81.4	423.0	283.0	90.7	133.0	2800.0	75.8	535.0	274.0	74.3	170.0	738.0	126.0
Selenium	1850	POS PARK	mg/kg	0	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1	<0.01	<1	<1	<1	<1	<1	<1	<1	<0.01	<1	<1	<1	<1	<1	<1	<1
Acenaphthene	28900	POS PARK	mg/kg	0	mg/kg																								
Phenanthrene	6170	POS PARK	mg/kg	0	mg/kg																								
Fluorene	19600	POS PARK	mg/kg	0	mg/kg																								
Napthalene	193	Commercial	mg/kg	0	mg/kg																								
Phenol (Monohydric)	7600	POS Maintenance	mg/kg	0	mg/kg	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	0.0	<0.035	<0.035	1.0	<0.035	0.1	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	0.2	<0.035
Aromatics >C7-8	56293.7	Commercial	mg/kg	0	mg/kg																								
Aromatics >C8-10	3460	Commercial	mg/kg	0	mg/kg																								
Aromatics >C10-12	9240	POS PARK	mg/kg	0	mg/kg																								
Aromatics >C12-16	10200	POS PARK	mg/kg	0	mg/kg																								
Aromatics >C16-21	7630	POS PARK	mg/kg	0	mg/kg																								
Aromatics >C21-35	7820	POS PARK	mg/kg	0	mg/kg																								
Aliphatics >C5-6	3190	Commercial	mg/kg	0	mg/kg																								
Aliphatics >C6-8	7780	Commercial	mg/kg	0	mg/kg																								
Aliphatics >C8-10	2000	Commercial	mg/kg	0	mg/kg																								
Aliphatics >C10-12	9690	Commercial	mg/kg	0	mg/kg																								
Aliphatics >C12-16	24700	POS PARK	mg/kg	0	mg/kg																								
Aliphatics >C16-21	455000	POS PARK	mg/kg	0	mg/kg																								
Aliphatics >C21-35	455000	POS PARK	mg/kg	0	mg/kg																								
Aromatics >C5-7	27	Commercial	mg/kg	0	mg/kg																								
4-Nitroaniline	10.8	POS PARK	mg/kg	0	mg/kg																								
4-Nitrophenol	7600	POS PARK	mg/kg	0	mg/kg																								
Styrene	3170	Commercial	mg/kg	0	mg/kg																								
Azobenzene	10.8	POS PARK	mg/kg	0	mg/kg																								

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	AEC18-LF-TP204	AEC18-LF-TP204	AEC18-LF-TP205	AEC18-LF-TP205	AEC18-LF-TP206	AEC18-LF-TP206	AEC18-LF-TP207	AEC18-LF-TP207	AEC18-LF-TP208	AEC18-LF-TP208	AEC18-LF-TP209	AEC18-LF-TP209	AEC18-LF-TP210	AEC18-LF-TP210	AEC18-LF-TP211	AEC18-LF-TP211	AEC18-LF-TP212	AEC18-LF-TP212	AEC18-LF-TP213	AEC18-LF-TP213	AEC18-LF-TP213	AEC18-LF-TP213A
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
n-propylbenzene	3860	Commercial	mg/kg	0	mg/kg																						
n-Butylbenzene	26.598	Commercial	mg/kg	0	mg/kg																						
2,4-Dimethylphenol	9180	POS PARK	mg/kg	0	mg/kg																						
3/4 Methylphenol	46000	POS PARK	mg/kg	0	mg/kg																						
1,4-Dichlorobenzene	4220	Commercial	mg/kg	0	mg/kg																						
1,2-Dichloroethane	0.671	Commercial	mg/kg	0	mg/kg																						
1,3,5-Trimethylbenzene	39.4	Commercial	mg/kg	0	mg/kg																						
Bromobenzene	91.5	Commercial	mg/kg	0	mg/kg																						
Chlorobenzene	55.6	Commercial	mg/kg	0	mg/kg																						
Phenol	7600	POS PARK	mg/kg	0	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bis(2-chloroethoxy)methane	0.956	Commercial	mg/kg	0	mg/kg																						
Bis(2-ethylhexyl)phthalate	16600	POS PARK	mg/kg	0	mg/kg																						
Di-N-Octyl Phthalate	20000	POS PARK	mg/kg	0	mg/kg																						
Hexachlorobenzene (HCB)	28.9	POS PARK	mg/kg	0	mg/kg																						
1,2,4-Trichlorobenzene	215	Commercial	mg/kg	0	mg/kg																						
2,4-Dichlorophenol	977	POS PARK	mg/kg	0	mg/kg																						
2,4-Dinitrotoluene	928	POS PARK	mg/kg	0	mg/kg																						
Dibromochloromethane	1.96	Commercial	mg/kg	0	mg/kg																						
Tetrachloroethene	18.6	Commercial	mg/kg	0	mg/kg																						
Dimethylphthalate	2630	POS PARK	mg/kg	0	mg/kg																						
Dibenzofuran	10.8	POS PARK	mg/kg	0	mg/kg																						
Sec-Butylbenzene	26.6	Commercial	mg/kg	0	mg/kg																						
cis-1,2-Dichloroethene	13.6	Commercial	mg/kg	0	mg/kg																						
trans-1,2-Dichloroethene	20.7	Commercial	mg/kg	0	mg/kg																						
Methyl tert-butyl ether (MTBE)	7480	Commercial	mg/kg	0	mg/kg																						
1,3-Dichlorobenzene	29.9	Commercial	mg/kg	0	mg/kg																						
Tetrachloromethane (Carbon Tetra Chloride)	2.87	Commercial	mg/kg	0	mg/kg																						
2,3,4,6-Tetrachlorophenol	1000	POS PARK	mg/kg	0	mg/kg																						
4-Chloro-3-Methylphenol	46100	POS PARK	mg/kg	0	mg/kg																						
2,6-Dinitrotoluene	468	POS PARK	mg/kg	0	mg/kg																						
1,1,1,2-Tetrachloroethane	108	Commercial	mg/kg	0	mg/kg																						
Chloroform	99.1	Commercial	mg/kg	0	mg/kg																						
1,1,1-Trichloroethane	660	Commercial	mg/kg	0	mg/kg																						
Chloroethene	0.0594	Commercial	mg/kg	0	mg/kg																						
Tribromomethane	714	Commercial	mg/kg	0	mg/kg																						
Bromodichloromethane	1.96	Commercial	mg/kg	0	mg/kg																						
1,1-Dichloroethane	263	Commercial	mg/kg	0	mg/kg																						
1,1-Dichloroethene	24.3	Commercial	mg/kg	0	mg/kg																						
1,2-Dichloropropane	3.13	Commercial	mg/kg	0	mg/kg																						
1,1,2-Trichloroethane	89.1	Commercial	mg/kg	0	mg/kg																						
Trichloroethene	1.23	Commercial	mg/kg	0	mg/kg																						
Diethylphthalate	89300	POS PARK	mg/kg	0	mg/kg																						
Di-N-Butyl Phthalate	2630	POS PARK	mg/kg	0	mg/kg																						
Butylbenzylphthalate	254000	POS PARK	mg/kg	0	mg/kg																						
Carbazole	10.8	POS PARK	mg/kg	0	mg/kg																						
1,2,3 Trichlorobenzene	102	Commercial	mg/kg	0	mg/kg																						
Hexachlorobutadiene (HCBD)	30.7	Commercial	mg/kg	0	mg/kg																						
Pentachlorophenol (PCP)	113	POS PARK	mg/kg	0	mg/kg																						
2,4,6-Trichlorophenol	1010	POS PARK	mg/kg	0	mg/kg																						
2-Nitroaniline	10.8	POS PARK	mg/kg	0	mg/kg																						
2-Methylnaphthalene	193	Commercial	mg/kg	0	mg/kg																						
2-Chloronaphthalene	370	Commercial	mg/kg	0	mg/kg																						
2,3,5,6-Tetrachlorophenol	1000	POS PARK	mg/kg	0	mg/kg																						

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	AEC18-LF-TP204	AEC18-LF-TP204	AEC18-LF-TP205	AEC18-LF-TP205	AEC18-LF-TP206	AEC18-LF-TP206	AEC18-LF-TP207	AEC18-LF-TP207	AEC18-LF-TP208	AEC18-LF-TP208	AEC18-LF-TP208	AEC18-LF-TP209	AEC18-LF-TP209	AEC18-LF-TP210	AEC18-LF-TP210	AEC18-LF-TP211	AEC18-LF-TP211	AEC18-LF-TP212	AEC18-LF-TP212	AEC18-LF-TP212	AEC18-LF-TP213	AEC18-LF-TP213	AEC18-LF-TP213	AEC18-LF-TP213A
					Sample Top	Sample Ref	Sample Type	0.50	4.50	0.10	2.50	0.80	3.30	1.60	3.60	0.60	1.60	2.90	1.20	4.20	0.80	3.00	0.50	3.00	0.50	2.00	4.00	1.50	2.50
O-Xylene	6603.1	Commercial	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
2-Methylphenol	46100	POS PARK	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
1,2-Dichlorobenzene	2020	Commercial	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
2-Chlorophenol	1010	POS PARK	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
1,2,4-Trimethylbenzene	39.4	Commercial	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
2,4,5-Trichlorophenol	1010	POS PARK	mg/kg	0	ES	ES	ES	ES	<0.01	<0.01	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Isopropylbenzene	1300	Commercial	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
4-Isopropyltoluene	1300	Commercial	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
m,p xylenes	5923.3	Commercial	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Chromium - Hexavalent	220	POS PARK	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	<0.3	<0.6	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Cyanide Free	168	Commercial	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Complex Cyanide	3460	POS PARK	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
4-Nitrophenol	7600000	POS PARK	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Ethylbenzene	5705504.8	Commercial	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Styrene	3170000	Commercial	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
n-Propylbenzene	3860000	Commercial	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
n-Butylbenzene	26597.9	Commercial	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
2,4-Dimethylphenol	9180000	POS PARK	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
4-Methylphenol	46000000	POS PARK	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
1,4-Dichlorobenzene	4220000	Commercial	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
1,2-Dichloroethane	671	Commercial	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
1,3,5-Trimethylbenzene	39400	Commercial	ug/kg	3	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Bromobenzene	91500	Commercial	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Toluene VOC	56293712.79	Commercial	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Chlorobenzene	55600	Commercial	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Phenol SVOC	7600000	POS PARK	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Bis(2-chloroethoxy)methane	956	Commercial	ug/kg	1	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Bis(2-ethylhexyl)phthalate	16600000	POS PARK	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
n-Diethylphthalate	20000000	POS PARK	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Hexachlorobenzene	28900	POS PARK	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
1,2,4-Trichlorobenzene	215000	Commercial	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
2,4-Dichlorophenol	977000	POS PARK	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
2,4-Dinitrotoluene	928000	POS PARK	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Dibromochloromethane	1960	Commercial	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Tetrachloroethene	18600	Commercial	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Dimethyl phthalate	2630000	POS PARK	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Dibenzofuran	10800	POS PARK	ug/kg	5	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
sec-Butylbenzene	26597.8811	Commercial	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
cis 1,2-Dichloroethene	13600	Commercial	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
trans 1,2-Dichloroethene	20700	Commercial	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Perylene	10800000	POS PARK	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
1,3-Dichlorobenzene	29900	Commercial	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Carbon Tetrachloride	2870	Commercial	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
4-Chloro-3-methylphenol	46100000	POS PARK	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
2,6-Dinitrotoluene	468000	POS PARK	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
1,1,1,2-Tetrachloroethane	108000	Commercial	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Chloroform	99100	Commercial	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Hexachloroethane	20900000	Commercial	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Benzene VOC	26597.9	Commercial	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
1,1,1-Trichloroethane	660000	Commercial	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Barium	5770	POS PARK	mg/kg	0	ES																								

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	AEC18-LF-TP204	AEC18-LF-TP204	AEC18-LF-TP205	AEC18-LF-TP205	AEC18-LF-TP206	AEC18-LF-TP206	AEC18-LF-TP207	AEC18-LF-TP207	AEC18-LF-TP208	AEC18-LF-TP208	AEC18-LF-TP209	AEC18-LF-TP209	AEC18-LF-TP210	AEC18-LF-TP210	AEC18-LF-TP211	AEC18-LF-TP211	AEC18-LF-TP212	AEC18-LF-TP212	AEC18-LF-TP213	AEC18-LF-TP213	AEC18-LF-TP213	AEC18-LF-TP213A	
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Vinyl Chloride	59.4	Commercial	ug/kg	0	ug/kg							<6	<6			<120	<6	<6				<6	<6				<6	
Dichloromethane VOC	257000000	Commercial	ug/kg	0	ug/kg							<10	<10			<200	<10	<10				68.6	19.1				<10	
Carbon Disulphide	11000000	Commercial	ug/kg	0	ug/kg							<7	<7			<140	<7	55.5				22.8	12.2				11.7	
Bromoform	714000	Commercial	ug/kg	0	ug/kg							<10	<10			<200	<10	<10				<10	<10				<10	
Bromodichloromethane	1960	Commercial	ug/kg	0	ug/kg							<7	<7			<140	<7	<7				<7	<7				<7	
1,1-Dichloroethane	263000	Commercial	ug/kg	0	ug/kg							<8	<8			<160	<8	<8				<8	<8				<8	
1,1-Dichloroethene	24300	Commercial	ug/kg	0	ug/kg							<10	<10			<200	<10	<10				<10	<10				<10	
Isophorone	26597881.1	Commercial	ug/kg	0	ug/kg							<200	<100			<200	<100	<100				<100	<200				<500	
1,2-Dichloropropane	3130	Commercial	ug/kg	0	ug/kg							<10	<10			<200	<10	<10				<10	<10				<10	
1,1,2-Trichloroethane	89100	Commercial	ug/kg	0	ug/kg							<10	<10			<200	<10	<10				<10	<10				<10	
Trichloroethene	1230	Commercial	ug/kg	0	ug/kg							<9	<9			<180	<9	<9				<9	<9				<9	
1,1,2,2-Tetrachloroethane	274000000	Commercial	ug/kg	0	ug/kg							<10	<10			<200	<10	<10				<10	<10				<10	
Diethyl phthalate	89300000	POS PARK	ug/kg	0	ug/kg							<200	<100			<200	<100	<100				<100	<200				<500	
n-Dibutylphthalate	2630000	POS PARK	ug/kg	0	ug/kg							<200	173.0			<200	<100	<100				<100	<200				<500	
Butylbenzyl phthalate SVOC	254000000	POS PARK	ug/kg	0	ug/kg							<200	<100			<200	<100	<100				<100	<200				<500	
Carbazole	10800	POS PARK	ug/kg	2	ug/kg							426.0	596.0			520.0	<100	<100				<100	<200				769.0	
1,2,3-Trichlorobenzene	102000	Commercial	ug/kg	0	ug/kg							<20	<20			<400	<20	<20				<20	<20				<20	
Hexachlorobutadiene	30700	Commercial	ug/kg	0	ug/kg							<20	<100			<200	<100	<100				<100	<20				<20	
Pentachlorophenol	113000	POS PARK	ug/kg	0	ug/kg							<200	<100			6880.0	<100	<100				<100	<200				<500	
2,4,6-Trichlorophenol	1010000	POS PARK	ug/kg	0	ug/kg							<200	<100			<200	<100	<100				<100	<200				<500	
2-Nitrophenol	7600000000	POS PARK	ug/kg	0	ug/kg							<200	<100			<200	<100	<100				<100	<200				<500	
2-Methylnaphthalene (SVOC) DEFAULT	193000	Commercial	ug/kg	2	ug/kg							<200	129.0			1540.0	<100	422.0				<100	<200				2030.0	
2-Chloronaphthalene	370000	Commercial	ug/kg	0	ug/kg							<200	<100			<200	<100	2120.0				<100	<200				<500	
o-Xylene	6603100.7	Commercial	ug/kg	0	ug/kg		<10	<10		<100	<10	<10	<10		<100	943.0	<10	92.5	<10	<10		<10	<10	<10	<10	<10	<10	<10
2-Methylphenol	46100000	POS PARK	ug/kg	0	ug/kg							<200	<100			<200	<100	<100				<100	<200				<500	
1,2-Dichlorobenzene	2020000	Commercial	ug/kg	0	ug/kg							<10	<10			<200	<10	<10				<10	<10				<10	
2-Chlorophenol	1010000	POS PARK	ug/kg	0	ug/kg							<200	<100			<200	<100	<100				<100	<200				<500	
1,2,4-Trimethylbenzene	39400	Commercial	ug/kg	5	ug/kg							<9	59.5			9640.0	<9	1240.0				<9	<9				47.6	
2,4,5-Trichlorophenol	1010000	POS PARK	ug/kg	0	ug/kg							<200	<100			<200	<100	<100				<100	<200				<500	
Isopropylbenzene	1300000	Commercial	ug/kg	0	ug/kg							<5	<5			229.0	<5	214.0				<5	<5				<5	
Nitrobenzene	26597881.1	Commercial	ug/kg	0	ug/kg							<200	<100			<200	<100	<100				<100	<200				<500	
4-Isopropyltoluene	1300000	Commercial	ug/kg	0	ug/kg							<10	<10			889.0	<10	<10				<10	<10				<10	
m & p Xylene	5923262.7	Commercial	ug/kg	0	ug/kg		<10	<10		<100	<10	<10	<10		<100	5960.0	<10	2690.0	<10	<10		<10	<10	13.0	<10	<10	<10	<10
Aro >C8-C9	7220	POS PARK	mg/kg	0	mg/kg																							
Aro >C9-C10	7220	POS PARK	mg/kg	0	mg/kg																							
Tributyltin SUBCON I2	42400000	POS PARK	ug/kg	0	ug/kg																							
Atrazine SUBCON Alcontrol	379000000	POS Maintenance	ug/kg	0	ug/kg																							
Aldrin SUBCON Alcontrol	7800000	POS PARK	ug/kg	0	ug/kg							<50																
alpha-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	46500000	POS PARK	ug/kg	0	ug/kg							<50																
beta-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	13300000	POS PARK	ug/kg	0	ug/kg							<50																
Endosulphan II	1960000000	POS Maintenance	ug/kg	0	ug/kg							<50																
Dieldrin SUBCON Alcontrol	12900000	POS PARK	ug/kg	0	ug/kg							<50																
Dichlorvos	26000000	POS PARK	ug/kg	0	ug/kg							<50																
Endosulphan I	1950000000	POS Maintenance	ug/kg	0	ug/kg							<50																
Aro >C35-C44	7820	POS PARK	mg/kg	0	mg/kg																							
Ali >C35-C44	455000	POS PARK	mg/kg	0	mg/kg																							
Anthracene SVOC	149000000	POS PARK	ug/kg	0	ug/kg		927.0	108.0		121.0	1890.0	1320.0		727.0	1680.0	<100	335.0	791.0				<100	193.0	733.0	310.0		6400.0	4390.0
Pyrene SVOC	15100000	POS PARK	ug/kg	0	ug/kg		5240.0	349.0		560.0	18800.0	3260.0		4000.0	5990.0	388.0	1360.0	4560.0				697.0	1840.0	2640.0	1280.0		18300.0	13000.0
Benzo(ghi)perylene SVOC	612000	POS Maintenance	ug/kg	0	ug/kg		1850.0	90.8		196.0	5970.0	913.0		1550.0	1260.0	137.0	360.0	1290.0				245.0	1580.0	544.0	187.0		3490.0	2760.0
Indeno(1,2,3-cd)pyrene SVOC	44000	POS Maintenance	ug/kg	1	ug/kg		2330.0	119.0		167.0	6880.0	1160.0		1520.0	1620.0	137.0	386.0	1700.0				335.0	1520.0	613.0	149.0		4350.0	3260.0
Benzo(b)fluoranthene SVOC	13200	POS PARK	ug/kg	7	ug/kg		3230.0	191.0		314.0	11500.0	1270.0		2190.0	2300.0	125.0	158.0	2650.0				297.0	1110.0	1210.0	404.0		10800.0	6150.0
Fluoranthene SVOC	6300000	POS PARK	ug/kg	0	ug/kg		6110.0	433.0		667.0	22100.0	4950.0		4490.0	19900.0	422.0	1600.0	5230.0				748.0	1800.0	3350.0	1530.0		38400.0	15300.0

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	AEC18-LF-TP204	AEC18-LF-TP204	AEC18-LF-TP205	AEC18-LF-TP205	AEC18-LF-TP206	AEC18-LF-TP206	AEC18-LF-TP207	AEC18-LF-TP207	AEC18-LF-TP208	AEC18-LF-TP208	AEC18-LF-TP208	AEC18-LF-TP209	AEC18-LF-TP209	AEC18-LF-TP210	AEC18-LF-TP210	AEC18-LF-TP211	AEC18-LF-TP211	AEC18-LF-TP212	AEC18-LF-TP212	AEC18-LF-TP212	AEC18-LF-TP213	AEC18-LF-TP213	AEC18-LF-TP213	AEC18-LF-TP213A		
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Benzo(k)fluoranthene SVOC	114000	POS Maintenance	ug/kg	0	ug/kg		1350.0		65.5		136.0	4510.0	1110.0		960.0	1750.0	182.0	197.0	909.0				264.0		782.0	536.0	146.0		4720.0	2300.0	
Acenaphthylene SVOC	28900000	POS PARK	ug/kg	0	ug/kg		244.0		20.4		42.8	831.0	101.0		176.0	<200	<100	<100	62.4				<100		<200	33.4	16.8		<500	344.0	
Chrysene SVOC	91000	POS Maintenance	ug/kg	1	ug/kg		2490.0		145.0		220.0	8010.0	1200.0		1890.0	2440.0	228.0	496.0	1870.0				348.0		1090.0	964.0	347.0		11600.0	4770.0	
Benzo(a)pyrene SVOC	10800	POS PARK	ug/kg	8	ug/kg		2890.0		157.0		237.0	8850.0	1610.0		2460.0	2420.0	194.0	472.0	2080.0				348.0		1440.0	934.0	324.0		11400.0	4850.0	
Dibenzo(ah)anthracene SVOC	1150	POS PARK	ug/kg	10	ug/kg		419.0		<23		41.4	1510.0	186.0		321.0	242.0	<100	<100	246.0				<100		<200	143.0	43.5		958.0	681.0	
Benzo(a)anthracene SVOC	48800	POS PARK	ug/kg	2	ug/kg		2470.0		155.0		249.0	7800.0	1680.0		2120.0	3160.0	228.0	282.0	1810.0				446.0		925.0	1060.0	422.0		15600.0	4860.0	
Acenaphthene SVOC	28900000	POS PARK	ug/kg	0	ug/kg		318.0		124.0		107.0	1220.0	2470.0		410.0	2350.0	<100	397.0	210.0				<100		<200	924.0	333.0		3420.0	3850.0	
Phenanthrene SVOC	6170000	POS PARK	ug/kg	0	ug/kg		3280.0		332.0		367.0	4790.0	5670.0		2130.0	8370.0	109.0	1530.0	2210.0				361.0		701.0	3420.0	1130.0		32200.0	14700.0	
Fluorene SVOC	19600000	POS PARK	ug/kg	0	ug/kg		449.0		206.0		105.0	1930.0	2160.0		467.0	2270.0	<10	384.0	101.0				<100		<200	873.0	264.0		4180.0	3620.0	
Naphthalene SVOC	1930000	Commercial	ug/kg	1	ug/kg		113.0		94.6		41.9	43.2	59.8		180.0	2260.0	<100	397.0	44.5				<100		<13	160.0	63.5		1090.0	2040.0	
Xylenols	9180	POS PARK	mg/kg	0	mg/kg		<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	0.0	<0.015	<0.015	1.0	<0.015	0.0	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	0.1	0.0	
Cresols	46100	POS PARK	mg/kg	0	mg/kg		<0.01	<0.01	0.0	<0.01	<0.01	<0.01	<0.01	0.0	<0.01	0.0	<0.01	0.0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.1	0.0	
Tributyltin	42400	POS PARK	mg/kg	0	mg/kg						<0.02																				
Methyl tert-butyl ether (MTBE)	7480000	Commercial	ug/kg	0	ug/kg				<10		<100	<10	<10		<100	<200	<10	<10				<10		<10		<10	<10		<10		
Aromatics >C6-7	27000000	Commercial	ug/kg	0	ug/kg				<10		<10	<10	<10		<10	<200	<10	<10				<10		<10		<10			<10		
Aromatics >C7-8	56293712.8	Commercial	ug/kg	0	ug/kg				<10		<10	<10	<10		<10	<200	<10	<10				<10		<10		<10			<10		
Aromatics >C8-10	3460000	Commercial	ug/kg	0	ug/kg				105.0		73.8	342.0	595.0		81.6	231000.0	<10	4150.0					77.4		34.8		714.0			209.0	
Aromatics >C10-12	9240000	POS PARK	ug/kg	0	ug/kg				269.0		38.1	316.0	1300.0		96.0	199000.0	<10	2860.0					58.1		23.2		785.0			407.0	
Aromatics >C12-16	10200000	POS PARK	ug/kg	0	ug/kg				4430.0		2800.0	17700.0	17100.0		4210.0	77200.0	1410.0	241000.0					<100		5560.0		17000.0			8360.0	
Aromatics >C16-21	7630000	POS PARK	ug/kg	0	ug/kg				13600.0		7030.0	110000.0	61500.0		24300.0	179000.0	29400.0	502000.0					1080.0		73000.0		67000.0			60300.0	
Aromatics >C21-35	7820000	POS PARK	ug/kg	1	ug/kg				41000.0		60600.0	333000.0	198000.0		113000.0	524000.0	98700.0	2060000.0					8930.0		531000.0		140000.0			214000.0	
Aromatics >C35-44	7820000	POS PARK	ug/kg	0	ug/kg				15300.0		120000.0	127000.0	69100.0		54700.0	144000.0	32700.0	279000.0					3740.0		106000.0		26100.0			105000.0	
Aliphatics >C5-6	3190000	Commercial	ug/kg	0	ug/kg				<10		<10	13.6	15.5		<10	220.0	<10	139.0					12.9		12.9		31.8			18.9	
Aliphatics >C6-8	7780000	Commercial	ug/kg	0	ug/kg				20.1		46.4	91.5	137.0		34.8	6120.0	<10	1530.0					34.8		36.1		180.0			84.4	
Aliphatics >C8-10	2000000	Commercial	ug/kg	1	ug/kg				148.0		88.1	513.0	891.0		90.0	283000.0	<10	3200.0					110.0		36.1		1070.0			292.0	
Aliphatics >C10-12	9690000	Commercial	ug/kg	0	ug/kg				404.0		57.1	475.0	1950.0		144.0	298000.0	<10	4300.0					86.4		34.8		1180.0			611.0	
Aliphatics >C12-16	24700000	POS PARK	ug/kg	0	ug/kg				5180.0		5820.0	9890.0	17100.0		3830.0	91800.0	1510.0	279000.0					<100		22200.0		6860.0			214.0	
Aliphatics >C16-21	455000000	POS PARK	ug/kg	0	ug/kg				12200.0		12300.0	23500.0	46900.0		12300.0	124000.0	6100.0	1180000.0					<100		290000.0		12600.0			24900.0	
Aliphatics >C21-35	455000000	POS PARK	ug/kg	0	ug/kg				36800.0		48600.0	109000.0	390000.0		68700.0	1040000.0	30300.0	5700000.0					3700.0		1320000.0		116000.0			258000.0	
Aliphatics >C35-44	455000000	POS PARK	ug/kg	0	ug/kg				5750.0		57900.0	47300.0	118000.0		26700.0	190000.0	8850.0	543000.0					<100		212000.0		18800.0			113000.0	
Trivalent Chromium	33000	POS PARK	mg/kg	0	mg/kg										<0.3																
Molybdenum	2890	POS PARK	mg/kg	0	mg/kg										0.1																
4-Nitroaniline	10800	POS PARK	ug/kg	0	ug/kg						<200	<100			<200	<100	<100						<100		<200				<500		
Azobenzene	10800	POS PARK	ug/kg	0	ug/kg						<200	<100			<200	<100	<100						<100		<200				<500		
4-Chloroaniline	10800000	POS PARK	ug/kg	0	ug/kg						<200	<100			<200	<100	<100						<100		<200				<500		
2-Nitroaniline	10800	POS PARK	ug/kg	0	ug/kg						<200	<100			<200	<100	<100						<100		<200				<500		

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	AEC18-LF-TP213A	AEC18-LF-TP213A	AEC18-LF-TP214	AEC18-LF-TP214	AEC18-LF-TP214	AEC18-LF-TP215	AEC18-LF-TP215	AEC18-LF-TP215	AEC18-LF-TP216	AEC18-LF-TP216	AEC18-LF-TP216	AEC18-LF-TP217	AEC18-LF-TP217	AEC18-LF-TP218	AEC18-LF-TP218	AEC18-LF-TP219	AEC18-LF-TP219	AEC18-LF-TP220	AEC18-LF-TP220	AEC18-LF-TP220	AEC18-LF-TP221	AEC18-LF-TP221	AEC18-LF-TP221	AEC18-LF-TP222
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
n-propylbenzene	3860	Commercial	mg/kg	0	mg/kg																								
n-Butylbenzene	26.598	Commercial	mg/kg	0	mg/kg																								
2,4-Dimethylphenol	9180	POS PARK	mg/kg	0	mg/kg																								
3/4 Methylphenol	46000	POS PARK	mg/kg	0	mg/kg																								
1,4-Dichlorobenzene	4220	Commercial	mg/kg	0	mg/kg																								
1,2-Dichloroethane	0.671	Commercial	mg/kg	0	mg/kg																								
1,3,5-Trimethylbenzene	39.4	Commercial	mg/kg	0	mg/kg																								
Bromobenzene	91.5	Commercial	mg/kg	0	mg/kg																								
Chlorobenzene	55.6	Commercial	mg/kg	0	mg/kg																								
Phenol	7600	POS PARK	mg/kg	0	mg/kg	<0.01	0.1	<0.01	<0.01	0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.0	0.0	<0.01	<0.01	<0.01	<0.01
Bis(2-chloroethoxy)methane	0.956	Commercial	mg/kg	0	mg/kg																								
Bis(2-ethylhexyl)phthalate	16600	POS PARK	mg/kg	0	mg/kg																								
Di-N-Octyl Phthalate	20000	POS PARK	mg/kg	0	mg/kg																								
Hexachlorobenzene (HCB)	28.9	POS PARK	mg/kg	0	mg/kg																								
1,2,4-Trichlorobenzene	215	Commercial	mg/kg	0	mg/kg																								
2,4-Dichlorophenol	977	POS PARK	mg/kg	0	mg/kg																								
2,4-Dinitrotoluene	928	POS PARK	mg/kg	0	mg/kg																								
Dibromochloromethane	1.96	Commercial	mg/kg	0	mg/kg																								
Tetrachloroethene	18.6	Commercial	mg/kg	0	mg/kg																								
Dimethylphthalate	2630	POS PARK	mg/kg	0	mg/kg																								
Dibenzofuran	10.8	POS PARK	mg/kg	0	mg/kg																								
Sec-Butylbenzene	26.6	Commercial	mg/kg	0	mg/kg																								
cis-1,2-Dichloroethene	13.6	Commercial	mg/kg	0	mg/kg																								
trans-1,2-Dichloroethene	20.7	Commercial	mg/kg	0	mg/kg																								
Methyl tert-butyl ether (MTBE)	7480	Commercial	mg/kg	0	mg/kg																								
1,3-Dichlorobenzene	29.9	Commercial	mg/kg	0	mg/kg																								
Tetrachloromethane (Carbon Tetra Chloride)	2.87	Commercial	mg/kg	0	mg/kg																								
2,3,4,6-Tetrachlorophenol	1000	POS PARK	mg/kg	0	mg/kg																								
4-Chloro-3-Methylphenol	46100	POS PARK	mg/kg	0	mg/kg																								
2,6-Dinitrotoluene	468	POS PARK	mg/kg	0	mg/kg																								
1,1,1,2-Tetrachloroethane	108	Commercial	mg/kg	0	mg/kg																								
Chloroform	99.1	Commercial	mg/kg	0	mg/kg																								
1,1,1-Trichloroethane	660	Commercial	mg/kg	0	mg/kg																								
Chloroethene	0.0594	Commercial	mg/kg	0	mg/kg																								
Tribromomethane	714	Commercial	mg/kg	0	mg/kg																								
Bromodichloromethane	1.96	Commercial	mg/kg	0	mg/kg																								
1,1-Dichloroethane	263	Commercial	mg/kg	0	mg/kg																								
1,1-Dichloroethene	24.3	Commercial	mg/kg	0	mg/kg																								
1,2-Dichloropropane	3.13	Commercial	mg/kg	0	mg/kg																								
1,1,2-Trichloroethane	89.1	Commercial	mg/kg	0	mg/kg																								
Trichloroethene	1.23	Commercial	mg/kg	0	mg/kg																								
Diethylphthalate	89300	POS PARK	mg/kg	0	mg/kg																								
Di-N-Butyl Phthalate	2630	POS PARK	mg/kg	0	mg/kg																								
Butylbenzylphthalate	254000	POS PARK	mg/kg	0	mg/kg																								
Carbazole	10.8	POS PARK	mg/kg	0	mg/kg																								
1,2,3 Trichlorobenzene	102	Commercial	mg/kg	0	mg/kg																								
Hexachlorobutadiene (HCBD)	30.7	Commercial	mg/kg	0	mg/kg																								
Pentachlorophenol (PCP)	113	POS PARK	mg/kg	0	mg/kg																								
2,4,6-Trichlorophenol	1010	POS PARK	mg/kg	0	mg/kg																								
2-Nitroaniline	10.8	POS PARK	mg/kg	0	mg/kg																								
2-Methylnaphthalene	193	Commercial	mg/kg	0	mg/kg																								
2-Chloronaphthalene	370	Commercial	mg/kg	0	mg/kg																								
2,3,5,6-Tetrachlorophenol	1000	POS PARK	mg/kg	0	mg/kg																								

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	AEC18-LF-TP213A	AEC18-LF-TP213A	AEC18-LF-TP214	AEC18-LF-TP214	AEC18-LF-TP214	AEC18-LF-TP215	AEC18-LF-TP215	AEC18-LF-TP215	AEC18-LF-TP216	AEC18-LF-TP216	AEC18-LF-TP216	AEC18-LF-TP217	AEC18-LF-TP217	AEC18-LF-TP218	AEC18-LF-TP218	AEC18-LF-TP219	AEC18-LF-TP219	AEC18-LF-TP220	AEC18-LF-TP220	AEC18-LF-TP220	AEC18-LF-TP221	AEC18-LF-TP221	AEC18-LF-TP221	AEC18-LF-TP222
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
O-Xylene	6603.1	Commercial	mg/kg	0	mg/kg																								
2-Methylphenol	46100	POS PARK	mg/kg	0	mg/kg																								
1,2-Dichlorobenzene	2020	Commercial	mg/kg	0	mg/kg																								
2-Chlorophenol	1010	POS PARK	mg/kg	0	mg/kg																								
1,2,4-Trimethylbenzene	39.4	Commercial	mg/kg	0	mg/kg																								
2,4,5-Trichlorophenol	1010	POS PARK	mg/kg	0	mg/kg					<0.01																			<0.01
Isopropylbenzene	1300	Commercial	mg/kg	0	mg/kg																								
4-Isopropyltoluene	1300	Commercial	mg/kg	0	mg/kg																								
m,p xylenes	5923.3	Commercial	mg/kg	0	mg/kg																								
Chromium - Hexavalent	220	POS PARK	mg/kg	0	mg/kg					<0.6	<0.3	<0.6	<0.3		<6							<0.6		<0.6		<0.3		<0.6	
Cyanide Free	168	Commercial	mg/kg	0	mg/kg						<0.5		<0.5		<1											<0.5			
Complex Cyanide	3460	POS PARK	mg/kg	0	mg/kg						<0.5		<0.5		<1											<0.5			
4-Nitrophenol	7600000	POS PARK	ug/kg	0	ug/kg		<500	<100	<1000	<100		<100	<100		<100						<100	<100			<5000	<100		<100	<500
Ethylbenzene	5705504.8	Commercial	ug/kg	0	ug/kg		29.9	<4	<40	<40	<4	<4	370.0	<4	4.9	<4	<80	<4		<4	8.9	<4	<4	<4	<40	<4	<4	<4	<4
Styrene	3170000	Commercial	ug/kg	0	ug/kg		<10	<10	<100	<100		<10	<100		<10						<10	<10			<100	<10		<10	<10
n-Propylbenzene	3860000	Commercial	ug/kg	0	ug/kg		21.9	<10	<100	<100		<10	<100		<10						<10	<10			<100	<10		<10	<10
n-Butylbenzene	26597.9	Commercial	ug/kg	0	ug/kg		<11	<11	<110	<110		<11	<110		<11						<11	<11			<110	<11		<11	<11
2,4-Dimethylphenol	9180000	POS PARK	ug/kg	0	ug/kg		<500	<100	<1000	<100		<100	<100		<100						<100	<100			<5000	<100		<100	<500
4-Methylphenol	46000000	POS PARK	ug/kg	0	ug/kg		<500	<100	<1000	<100		<100	<100		<100						<100	<100			<5000	<100		<100	<500
1,4-Dichlorobenzene	4220000	Commercial	ug/kg	0	ug/kg		<5	<100	<1000	<100		<100	<100		<100						<100	<100			<50	<100		1350.0	<5
1,2-Dichloroethane	671	Commercial	ug/kg	0	ug/kg		<5	<5	<50	<50		<5	<50		<5						<5	<5			<50	<5		<5	<5
1,3,5-Trimethylbenzene	39400	Commercial	ug/kg	3	ug/kg		231.0	<8	<80	<80		<8	<80		26.4						<8	<8			418.0	41.7		<8	<8
Bromobenzene	91500	Commercial	ug/kg	0	ug/kg		<10	<10	<100	<100		<10	<100		<10						<10	<10			<100	<10		<10	<10
Toluene VOC	56293712.79	Commercial	ug/kg	0	ug/kg		<7	<7	<70	<70	<7	<7	<70	<7	<7	<7	<140	<7		<7	<7			<7	<70	<7		<7	<7
Chlorobenzene	55600	Commercial	ug/kg	0	ug/kg		<5	<5	<50	<50		<5	<50		<5						<5	<5			<50	<5		<5	<5
Phenol SVOC	7600000	POS PARK	ug/kg	0	ug/kg		<500	<100	<1000	<100		<100	<100		148.0						<100	114.0			<5000	<100		142.0	<500
Bis(2-chloroethoxy)methane	956	Commercial	ug/kg	1	ug/kg		<500	<100	<1000	<100		<100	<100		<100						<100	<100			<5000	<100		<100	<500
Bis(2-ethylhexyl)phthalate	16600000	POS PARK	ug/kg	0	ug/kg		1680.0	<100	<1000	420.0		<100	1220.0		9740.0						161.0	<100			15300.0	1270.0		<100	<500
n-Diethylphthalate	20000000	POS PARK	ug/kg	0	ug/kg		<500	<100	<1000	<100		<100	<100		114.0						<100	<100			<5000	<100		<100	<500
Hexachlorobenzene	28900	POS PARK	ug/kg	0	ug/kg		<500	<100	<1000	<100		<100	<100		<100						<100	<100			<5000	<100		<100	<500
1,2,4-Trichlorobenzene	215000	Commercial	ug/kg	0	ug/kg		<20	<100	<1000	<100		<100	<100		<100						<100	<100			<200	<100		<100	<20
2,4-Dichlorophenol	977000	POS PARK	ug/kg	0	ug/kg		<500	<100	<1000	<100		<100	<100		<100						<100	<100			<5000	<100		<100	<500
2,4-Dinitrotoluene	928000	POS PARK	ug/kg	0	ug/kg		<500	<100	<1000	<100		<100	<100		<100						<100	<100			<5000	<100		<100	<500
Dibromochloromethane	1960	Commercial	ug/kg	0	ug/kg		<10	<10	<100	<100		<10	<100		<10						<10	<10			<100	<10		<10	<10
Tetrachloroethene	18600	Commercial	ug/kg	0	ug/kg		<5	<5	<50	<50		<5	<50		<5						<5	<5			<50	<5		<5	<5
Dimethyl phthalate	2630000	POS PARK	ug/kg	0	ug/kg		<500	<100	<1000	<100		<100	<100		<100						<100	<100			<5000	<100		<100	<500
Dibenzofuran	10800	POS PARK	ug/kg	5	ug/kg		11700.0	<100	6170.0	378.0		221.0	<100		137.0						124.0	<100			<5000	1330.0		<100	<500
sec-Butylbenzene	26597.8811	Commercial	ug/kg	0	ug/kg		18.8	<10	<100	<100		<10	<100		<10						<10	<10			<100	<10		<10	<10
cis 1,2-Dichloroethene	13600	Commercial	ug/kg	0	ug/kg		<6	<6	<60	<60		<6	<60		<6						<6	<6			<60	<6		<6	<6
trans 1,2-Dichloroethene	20700	Commercial	ug/kg	0	ug/kg		<10	<10	<100	<100		<10	<100		<10						<10	<10			<100	<10		<10	<10
Perylene	10800000	POS PARK	ug/kg	0	ug/kg																								
1,3-Dichlorobenzene	29900	Commercial	ug/kg	0	ug/kg		<500	<100	<1000	<100		<100	<100		<100						<100	<100			<5000	<100		<100	<500
Carbon Tetrachloride	2870	Commercial	ug/kg	0	ug/kg		<10	<10	<100	<100		<10	<100		<10						<10	<10			<100	<10		<10	<10
4-Chloro-3-methylphenol	46100000	POS PARK	ug/kg	0	ug/kg		<500	<100	<1000	<100		<100	<100		<100						<100	<100			<5000	<100		<100	<500
2,6-Dinitrotoluene	468000	POS PARK	ug/kg	0	ug/kg		<500	<100	<1000	<100		<100	<100		<100						<100	<100			<5000	<100		<100	<500
1,1,1,2-Tetrachloroethane	108000	Commercial	ug/kg	0	ug/kg		<10	<10	<100	<100		<10	<100		<10						<10	<10			<100	<10		<10	<10
Chloroform	99100	Commercial	ug/kg	0	ug/kg		<8	<8	<80	<80		<8	<80		<8						<8	<8			<80	<8		<8	<8
Hexachloroethane	20900000	Commercial	ug/kg	0	ug/kg		<500	<100	<1000	<100		<100	<100		<100						<100	<100			<5000	<100		<100	<500
Benzene VOC	26597.9	Commercial	ug/kg	0	ug/kg		14.8	<9	<90	<90	<9	<9	<90	<9	<9	<9	<												

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	AEC18-LF-TP213A	AEC18-LF-TP213A	AEC18-LF-TP214	AEC18-LF-TP214	AEC18-LF-TP214	AEC18-LF-TP215	AEC18-LF-TP215	AEC18-LF-TP215	AEC18-LF-TP216	AEC18-LF-TP216	AEC18-LF-TP216	AEC18-LF-TP217	AEC18-LF-TP217	AEC18-LF-TP218	AEC18-LF-TP218	AEC18-LF-TP219	AEC18-LF-TP219	AEC18-LF-TP220	AEC18-LF-TP220	AEC18-LF-TP220	AEC18-LF-TP221	AEC18-LF-TP221	AEC18-LF-TP221	AEC18-LF-TP222
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Vinyl Chloride	59.4	Commercial	ug/kg	0	ug/kg	<6	<6	<60	<60	<6	<60	<6	<60	<6	<60	<6	<60	<6	<60	<6	<60	<6	<60	<6	<60	<6	<60	<6	<60
Dichloromethane VOC	257000000	Commercial	ug/kg	0	ug/kg	29.8	<10	<100	<100	<10	<100	<10	<100	<10	<100	<10	<100	<10	<100	<10	<100	<10	<100	<10	<100	<10	<100	<10	<100
Carbon Disulphide	11000000	Commercial	ug/kg	0	ug/kg	18.5	<7	<70	<70	<7	<70	<7	<70	<7	<70	<7	<70	<7	<70	<7	<70	<7	<70	<7	<70	<7	<70	<7	<70
Bromoform	714000	Commercial	ug/kg	0	ug/kg	<10	<10	<100	<100	<10	<100	<10	<100	<10	<100	<10	<100	<10	<100	<10	<100	<10	<100	<10	<100	<10	<100	<10	<100
Bromodichloromethane	1960	Commercial	ug/kg	0	ug/kg	<7	<7	<70	<70	<7	<70	<7	<70	<7	<70	<7	<70	<7	<70	<7	<70	<7	<70	<7	<70	<7	<70	<7	<70
1,1-Dichloroethane	263000	Commercial	ug/kg	0	ug/kg	<8	<8	<80	<80	<8	<80	<8	<80	<8	<80	<8	<80	<8	<80	<8	<80	<8	<80	<8	<80	<8	<80	<8	<80
1,1,2-Dichloroethane	24300	Commercial	ug/kg	0	ug/kg	<10	<10	<100	<100	<10	<100	<10	<100	<10	<100	<10	<100	<10	<100	<10	<100	<10	<100	<10	<100	<10	<100	<10	<100
Isophorone	26597881.1	Commercial	ug/kg	0	ug/kg	<500	<100	<1000	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
1,2-Dichloropropane	3130	Commercial	ug/kg	0	ug/kg	<10	<10	<100	<100	<10	<100	<10	<100	<10	<100	<10	<100	<10	<100	<10	<100	<10	<100	<10	<100	<10	<100	<10	<100
1,1,2-Trichloroethane	89100	Commercial	ug/kg	0	ug/kg	<10	<10	<100	<100	<10	<100	<10	<100	<10	<100	<10	<100	<10	<100	<10	<100	<10	<100	<10	<100	<10	<100	<10	<100
Trichloroethene	1230	Commercial	ug/kg	0	ug/kg	<9	<9	<90	<90	<9	<90	<9	<90	<9	<90	<9	<90	<9	<90	<9	<90	<9	<90	<9	<90	<9	<90	<9	<90
1,1,2,2-Tetrachloroethane	274000000	Commercial	ug/kg	0	ug/kg	<10	<10	<100	<100	<10	<100	<10	<100	<10	<100	<10	<100	<10	<100	<10	<100	<10	<100	<10	<100	<10	<100	<10	<100
Diethyl phthalate	89300000	POS PARK	ug/kg	0	ug/kg	<500	<100	<1000	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
n-Dibutylphthalate	2630000	POS PARK	ug/kg	0	ug/kg	41200.0	<100	<1000	<100	<100	<100	<100	<100	228.0	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Butylbenzyl phthalate SVOC	254000000	POS PARK	ug/kg	0	ug/kg	3580.0	<100	<1000	1130.0	<100	<100	<100	<100	661.0	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Carbazole	10800	POS PARK	ug/kg	2	ug/kg	2890.0	<100	5300.0	252.0	<100	132.0	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
1,2,3-Trichlorobenzene	102000	Commercial	ug/kg	0	ug/kg	<20	<20	<200	<200	<20	<200	<20	<200	<20	<200	<20	<200	<20	<200	<20	<200	<20	<200	<20	<200	<20	<200	<20	<200
Hexachlorobutadiene	30700	Commercial	ug/kg	0	ug/kg	<20	<100	<1000	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Pentachlorophenol	113000	POS PARK	ug/kg	0	ug/kg	<500	<100	<1000	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
2,4,6-Trichlorophenol	1010000	POS PARK	ug/kg	0	ug/kg	<500	<100	<1000	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
2-Nitrophenol	7600000000	POS PARK	ug/kg	0	ug/kg	<500	<100	<1000	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
2-Methylnaphthalene (SVOC) DEFAULT	193000	Commercial	ug/kg	2	ug/kg	11500.0	<100	<1000	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
2-Chloronaphthalene	370000	Commercial	ug/kg	0	ug/kg	<500	<100	<1000	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
o-Xylene	6603100.7	Commercial	ug/kg	0	ug/kg	39.1	<10	<100	<100	<10	<10	<100	<10	<10	<10	<10	<200	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Methylphenol	46100000	POS PARK	ug/kg	0	ug/kg	<500	<100	<1000	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
1,2-Dichlorobenzene	2020000	Commercial	ug/kg	0	ug/kg	<10	<10	<100	<100	<10	<100	<10	<100	<10	<100	<10	<100	<10	<100	<10	<100	<10	<100	<10	<100	<10	<100	<10	<100
2-Chlorophenol	1010000	POS PARK	ug/kg	0	ug/kg	<500	<100	<1000	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
1,2,4-Trimethylbenzene	39400	Commercial	ug/kg	5	ug/kg	656.0	<9	<90	<90	<9	<90	<9	<90	57.4	<9	<90	<9	<90	<9	<90	<9	<90	<9	<90	2030.0	174.0	<9	<90	
2,4,5-Trichlorophenol	1010000	POS PARK	ug/kg	0	ug/kg	<500	<100	<1000	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Isopropylbenzene	1300000	Commercial	ug/kg	0	ug/kg	17.6	<5	<50	<50	<5	<50	<5	<50	<5	<50	<5	<50	<5	<50	<5	<50	<5	<50	<5	<50	<5	<50	<5	<50
Nitrobenzene	26597881.1	Commercial	ug/kg	0	ug/kg	<500	<100	<1000	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
4-Isopropyltoluene	1300000	Commercial	ug/kg	0	ug/kg	143.0	<10	<100	<100	<10	<100	<10	<100	<10	<100	<10	<100	<10	<100	<10	<100	<10	<100	<10	<100	<10	<100	<10	<100
m & p Xylene	5923262.7	Commercial	ug/kg	0	ug/kg	53.6	<10	<100	<100	<10	<100	<10	<100	<10	45.1	14.0	<200	<10	<10	<10	<10	<10	<10	<10	<10	211.0	27.6	<10	<100
Aro >C8-C9	7220	POS PARK	mg/kg	0	mg/kg																								
Aro >C9-C10	7220	POS PARK	mg/kg	0	mg/kg																								
Tributyltin SUBCON I2	42400000	POS PARK	ug/kg	0	ug/kg																								
Atrazine SUBCON Alcontrol	379000000	POS Maintenance	ug/kg	0	ug/kg																								
Aldrin SUBCON Alcontrol	7800000	POS PARK	ug/kg	0	ug/kg																							<50	
alpha-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	46500000	POS PARK	ug/kg	0	ug/kg																							<50	
beta-Hexachlorocyclohexane (HCH) SUBCON Al																													

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	AEC18-LF-TP213A	AEC18-LF-TP213A	AEC18-LF-TP214	AEC18-LF-TP214	AEC18-LF-TP214	AEC18-LF-TP215	AEC18-LF-TP215	AEC18-LF-TP215	AEC18-LF-TP216	AEC18-LF-TP216	AEC18-LF-TP216	AEC18-LF-TP217	AEC18-LF-TP217	AEC18-LF-TP218	AEC18-LF-TP218	AEC18-LF-TP219	AEC18-LF-TP219	AEC18-LF-TP220	AEC18-LF-TP220	AEC18-LF-TP220	AEC18-LF-TP221	AEC18-LF-TP221	AEC18-LF-TP221	AEC18-LF-TP222	
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Benzo(k)fluoranthene SVOC	114000	POS Maintenance	ug/kg	0	ug/kg		1410.0	<100	20800.0	1780.0	88.8	1550.0	37.4	111.0	524.0	81.6	152.0	48.1		880.0	342.0		1170.0	<5000	1040.0		430.0	29.2	<500	
Acenaphthylene SVOC	28900000	POS PARK	ug/kg	0	ug/kg		<500	<100	<1000	<100	17.4	<100	<100	<12	<100	<12	28.9	14.9		<100	<100		280.0	<5000	212.0		101.0	<100	<500	
Chrysene SVOC	91000	POS Maintenance	ug/kg	1	ug/kg		3080.0	<100	42400.0	2910.0	122.0	2120.0	84.6	198.0	695.0	144.0	212.0	95.3		880.0	433.0		2670.0	<5000	1850.0		757.0	52.5	527.0	
Benzo(a)pyrene SVOC	10800	POS PARK	ug/kg	8	ug/kg		2740.0	<100	43100.0	5020.0	139.0	3510.0	96.1	196.0	730.0	119.0	347.0	91.1		1190.0	524.0		3550.0	<5000	1950.0		960.0	65.8	559.0	
Dibenzo(ah)anthracene SVOC	1150	POS PARK	ug/kg	10	ug/kg		<500	<100	4980.0	322.0	<23	185.0	<100	29.9	114.0	<23	56.3	<23		136.0	<100		575.0	177.0	177.0		140.0	<100	170.0	
Benzo(a)anthracene SVOC	48800	POS PARK	ug/kg	2	ug/kg		3410.0	<100	51000.0	5030.0	144.0	2830.0	97.9	197.0	798.0	134.0	281.0	93.9		1000.0	536.0		3380.0	906.0	2890.0		982.0	56.9	548.0	
Acenaphthene SVOC	28900000	POS PARK	ug/kg	0	ug/kg		15100.0	<100	25800.0	686.0	<8	381.0	52.5	105.0	355.0	126.0	15.6	63.9		285.0	137.0		239.0	<5000	1860.0		30.7	<100	<500	
Phenanthrene SVOC	6170000	POS PARK	ug/kg	0	ug/kg		35900.0	<100	190000.0	4630.0	121.0	4800.0	145.0	241.0	1010.0	307.0	241.0	204.0		1950.0	319.0		3290.0	<5000	10900.0		1080.0	57.5	<500	
Fluorene SVOC	19600000	POS PARK	ug/kg	0	ug/kg		13100.0	<10	24400.0	672.0	<10	529.0	77.5	104.0	296.0	112.0	27.7	71.8		335.0	<100		256.0	<5000	2140.0		75.2	<100	<500	
Naphthalene SVOC	193000	Commercial	ug/kg	1	ug/kg		14000.0	<100	<1000	<100	33.2	<100	<100	13.1	<13	28.4	170.0	153.0		<100	<100		86.4	69400.0	61.8		18.9	<100	<13	
Xylenols	9180	POS PARK	mg/kg	0	mg/kg		<0.015	0.0	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Cresols	46100	POS PARK	mg/kg	0	mg/kg		<0.01	0.1	<0.01	<0.01	0.4	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Tributyltin	42400	POS PARK	mg/kg	0	mg/kg					<0.02																		<0.02		
Methyl tert-butyl ether (MTBE)	7480000	Commercial	ug/kg	0	ug/kg		<10	<10	<100	<100	<10	<10	<100	<10	<10	<10	<10			<10	<10		<100	<10			<10	<10		
Aromatics >C6-7	27000000	Commercial	ug/kg	0	ug/kg		16.7	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10			<10	<10		<10	<10			<10	<10		
Aromatics >C7-8	56293712.8	Commercial	ug/kg	0	ug/kg		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10			<10	<10		<10	<10			<10	<10		
Aromatics >C8-10	3460000	Commercial	ug/kg	0	ug/kg		1540.0	<10	114.0	511.0	<10	86.1	565.0	67.3	366.0	306.0				181.0	75.2		4180.0	964.0			80.2	23.2		
Aromatics >C10-12	9240000	POS PARK	ug/kg	0	ug/kg		3220.0	<10	143.0	343.0	<10	61.5	545.0	41.3	174.0	256.0				160.0	60.4		3500.0	1150.0			70.8	20.0		
Aromatics >C12-16	10200000	POS PARK	ug/kg	0	ug/kg		66700.0	<100	28900.0	9530.0	<100	1640.0	4910.0	<100	45700.0	14200.0				8440.0	1610.0		233000.0	41600.0			4300.0	5580.0		
Aromatics >C16-21	7630000	POS PARK	ug/kg	0	ug/kg		126000.0	534.0	202000.0	61200.0	5130.0	6920.0	29000.0	4590.0	328000.0	89700.0				60200.0	18400.0		332000.0	180000.0			29100.0	55500.0		
Aromatics >C21-35	7820000	POS PARK	ug/kg	1	ug/kg		429000.0	7370.0	440000.0	217000.0	40600.0	23300.0	154000.0	26800.0	1850000.0	311000.0				197000.0	65500.0		1040000.0	325000.0			843000.0	378000.0		
Aromatics >C35-44	7820000	POS PARK	ug/kg	0	ug/kg		163000.0	5770.0	162000.0	82100.0	14900.0	10400.0	35200.0	2370.0	335000.0	54900.0				142000.0	22400.0		210000.0	59900.0			605000.0	192000.0		
Aliphatics >C5-6	3190000	Commercial	ug/kg	0	ug/kg		36.9	<10	34.8	56.0	<10	<10	12.0	<10	13.7	12.5				19.8	<10		11.6	15.3			<10	<10		
Aliphatics >C6-8	7780000	Commercial	ug/kg	0	ug/kg		212.0	<10	74.4	312.0	<10	92.3	155.0	29.5	154.0	98.8				74.4	27.4		266.0	241.0			31.9	13.7		
Aliphatics >C8-10	2000000	Commercial	ug/kg	1	ug/kg		2300.0	<10	140.0	664.0	<10	128.0	456.0	59.0	433.0	421.0				272.0	82.1		3990.0	1260.0			120.0	33.7		
Aliphatics >C10-12	9690000	Commercial	ug/kg	0	ug/kg		4830.0	<10	214.0	515.0	<10	92.3	817.0	61.4	261.0	384.0				239.0	90.1		5240.0	1730.0			106.0	29.5		
Aliphatics >C12-16	24700000	POS PARK	ug/kg	0	ug/kg		28800.0	<100	6880.0	8200.0	<100	2770.0	12000.0	484.0	193000.0	25900.0				3290.0	<100		219000.0	11700.0			4720.0	8380.0		
Aliphatics >C16-21	45500000	POS PARK	ug/kg	0	ug/kg		62800.0	<100	40100.0	55800.0	2860.0	7470.0	64900.0	9290.0	1370000.0	157000.0				13600.0	9850.0		253000.0	58100.0			34100.0	39900.0		
Aliphatics >C21-35	45500000	POS PARK	ug/kg	0	ug/kg		819000.0	6080.0	211000.0	257000.0	55900.0	23200.0	439000.0	74300.0	6770000.0	735000.0				113000.0	37900.0		2630000.0	360000.0			959000.0	251000.0		
Aliphatics >C35-44	45500000	POS PARK	ug/kg	0	ug/kg		228000.0	<100	71300.0	60200.0	6170.0	6040.0	58700.0	18400.0	946000.0	91400.0				59200.0	7720.0		83600.0	23000.0			583000.0	131000.0		
Trivalent Chromium	33000	POS PARK	mg/kg	0	mg/kg						<0.3		<0.3															<0.3		
Molybdenum	2890	POS PARK	mg/kg	0	mg/kg						0.1		0.2															<0.03		
4-Nitroaniline	10800	POS PARK	ug/kg	0	ug/kg		<500	<100	<1000	<100		<100	<100		148.0					<100	<100		<5000	<100			<100	<500		
Azobenzene	10800	POS PARK	ug/kg	0	ug/kg		<500	<100	<1000	<100		<100	<100		<100					<100	<100		<5000	<100			<100	<500		
4-Chloroaniline	10800000	POS PARK	ug/kg	0	ug/kg		<500	<100	<1000	<100		<100	<100		<100					<100	<100		<5000	<100			<100	<500		
2-Nitroaniline	10800	POS PARK	ug/kg	0	ug/kg		<500	<100	<1000	<100		<100	<100		<100					<100	<100		<5000	<100			<100	<500		

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	AEC18-LF-TP222	AEC18-LF-TP223	AEC18-LF-TP223	AEC18-LF-TP223	AEC18-LF-TP224	AEC18-LF-TP224	AEC18-LF-TP224	AEC18-LF-TP224	AEC18-LF-TP225	AEC18-LF-TP225	AEC18-LF-TP225	AEC18-LF-TP226	AEC18-LF-TP226	AEC18-LF-TP227	AEC18-LF-TP227	AEC18-LF-TP227	AEC18-LF-TP228	AEC18-LF-TP228	AEC18-LF-TP228	AEC18-LF-TP229	AEC18-LF-TP229	AEC18-LF-TP229	AEC18-LF-TP232	AEC18-LF-TP232	
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Ethylbenzene	5705.5	Commercial	mg/kg	0	mg/kg																									
Toluene	56293.7	Commercial	mg/kg	0	mg/kg																									
Anthracene	149000	POS PARK	mg/kg	0	mg/kg																									
Pyrene	15100	POS PARK	mg/kg	0	mg/kg																									
Xylene	6603.1	Commercial	mg/kg	0	mg/kg																									
Benzo (g,h,i) perylene	612	POS Maintenance	mg/kg	0	mg/kg																									
Indeno(1,2,3-cd)pyrene	44	POS Maintenance	mg/kg	0	mg/kg																									
Benzo(b)fluoranthene	13.2	POS PARK	mg/kg	4	mg/kg																									
Fluoranthene	6300	POS PARK	mg/kg	0	mg/kg																									
Benzo(k)fluoranthene	114	POS Maintenance	mg/kg	0	mg/kg																									
Acenaphthylene	28900	POS PARK	mg/kg	0	mg/kg																									
Chrysene	91	POS Maintenance	mg/kg	0	mg/kg																									
Benzo(a)pyrene	10.8	POS PARK	mg/kg	4	mg/kg																									
Dibenz-a-h-anthracene	1.15	POS PARK	mg/kg	5	mg/kg																									
Benzo(a)anthracene	48.8	POS PARK	mg/kg	0	mg/kg																									
Cyanide	24	POS PARK	mg/kg	5	mg/kg	<1	<1	<0.5	<1	<1	<1	2.1	<1	<1	2.1	4.3	<0.5	<1	<1	<1	<1	<1	<1	<0.5	1.2	<1	<1	2.0	<1	<1
Benzene	26.60	Commercial	mg/kg	0	mg/kg																									
Lead	1300	POS PARK	mg/kg	13	mg/kg	108.0	57.6	0.0	18.7	76.4	41.6	53.7	97.3	33.4	129.0	238.0	0.0	160.0	55.2	27.5	124.0	84.6	1590.0	308.0	43.7	554.0	197.0	46.7	97.7	
Mercury	244	POS PARK	mg/kg	0	mg/kg	<0.14	<0.14	<0.0001	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	0.8	0.5	<0.0001	<0.14	<0.14	<0.14	<0.14	<0.14	<0.0001	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	
Nickel	804	POS PARK	mg/kg	8	mg/kg	25.8	22.6	0.1	12.7	22.0	12.1	38.8	24.5	28.7	12.9	56.7	0.0	38.3	16.2	21.2	36.9	20.2	0.0	32.7	48.1	34.5	29.8	36.5	21.5	
Antimony	3290	POS PARK	mg/kg	0	mg/kg	3.4	<0.6	0.1	<0.6	<0.6	<0.6	<0.6	3.2	<0.6	3.4	2.0	0.0	<0.6	<0.6	<0.6	<0.6	<0.6	0.0	2.8	<0.6	33.0	4.4	<0.6	<0.6	
Arsenic	168	POS PARK	mg/kg	0	mg/kg	10.4	14.1	0.1	9.5	18.6	7.3	15.5	14.5	28.9	7.6	22.0	0.0	16.2	11.9	16.3	18.1	16.4	0.0	14.0	40.3	17.2	12.8	14.3	14.2	
Beryllium	11.7	Commercial	mg/kg	1	mg/kg	0.7	2.0	<0.001	0.2	0.6	0.5	0.5	0.6	1.0	0.4	1.4	<0.001	1.2	0.7	1.0	1.1	0.8	0.0	0.6	0.1	1.4	0.9	0.9	1.1	
Boron	46200	POS PARK	mg/kg	0	mg/kg	2.8	1.3	1.9	1.4	<1	1.1	2.7	1.9	1.3	1.7	3.3	<1	3.1	<1	1.5	3.1	<1	0.5	2.2	<1	2.1	1.9	1.4	1.8	
Cadmium	190	Commercial	mg/kg	0	mg/kg	1.2	0.1	<0.0008	0.1	<0.02	0.2	0.5	0.4	0.1	1.5	18.0	<0.0008	0.8	0.3	<0.02	0.2	0.1	<0.0008	0.3	<0.02	12.6	2.8	2.2	0.4	
Chromium	8570	Commercial	mg/kg	1	mg/kg	113.0	27.9	0.1	9.8	9.7	9.4	49.7	15.2	15.0	26.2	55.2	0.1	28.0	18.7	27.7	22.2	17.0	0.1	78.4	<0.9	56.4	30.9	25.6	16.5	
Copper	44400	POS PARK	mg/kg	2	mg/kg	64.0	49.6	0.0	59.5	21.0	41.7	65.8	39.7	20.8	127.0	234.0	0.0	63.9	26.8	18.6	83.2	30.6	0.0	95.2	30.3	177.0	159.0	21.2	48.8	
Vanadium	2820	POS Maintenance	mg/kg	0	mg/kg	22.0	49.1	0.0	12.8	64.5	19.5	24.3	32.6	40.5	9.5	22.2	0.0	51.5	36.0	53.2	44.1	30.5	0.1	31.9	34.8	44.1	34.7	44.8	31.3	
Zinc	173000	POS PARK	mg/kg	0	mg/kg	176.0	97.7	0.0	47.9	91.4	68.8	246.0	299.0	80.8	456.0	74.4	0.0	229.0	118.0	54.2	149.0	97.9	1000.0	245.0	150.0	476.0	261.0	72.3	148.0	
Selenium	1850	POS PARK	mg/kg	0	mg/kg	<1	<1	<0.01	<1	<1	<1	<1	<1	<1	<1	<1	<0.01	<1	<1	<1	<1	<1	<0.01	<1	<1	4.0	<1	<1	<1	
Acenaphthene	28900	POS PARK	mg/kg	0	mg/kg																									
Phenanthrene	6170	POS PARK	mg/kg	0	mg/kg																									
Fluorene	19600	POS PARK	mg/kg	0	mg/kg																									
Napthalene	193	Commercial	mg/kg	0	mg/kg																									
Phenol (Monohydric)	7600	POS Maintenance	mg/kg	0	mg/kg	<0.035	<0.035	<0.035	0.1	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	0.1	<0.035	<0.035	<0.035	<0.035	<0.035	0.1	<0.035	<0.035	<0.035	0.2	<0.035	0.1	
Aromatics >C7-8	56293.7	Commercial	mg/kg	0	mg/kg																									
Aromatics >C8-10	3460	Commercial	mg/kg	0	mg/kg																									
Aromatics >C10-12	9240	POS PARK	mg/kg	0	mg/kg																									
Aromatics >C12-16	10200	POS PARK	mg/kg	0	mg/kg																									
Aromatics >C16-21	7630	POS PARK	mg/kg	0	mg/kg																									
Aromatics >C21-35	7820	POS PARK	mg/kg	0	mg/kg																									
Aliphatics >C5-6	3190	Commercial	mg/kg	0	mg/kg																									
Aliphatics >C6-8	7780	Commercial	mg/kg	0	mg/kg																									
Aliphatics >C8-10	2000	Commercial	mg/kg	0	mg/kg																									
Aliphatics >C10-12	9690	Commercial	mg/kg	0	mg/kg																									
Aliphatics >C12-16	24700	POS PARK	mg/kg	0	mg/kg																									
Aliphatics >C16-21	455000	POS PARK	mg/kg	0	mg/kg																									
Aliphatics >C21-35	455000	POS PARK	mg/kg	0	mg/kg																									
Aromatics >C5-7	27	Commercial	mg/kg	0	mg/kg																									
4-Nitroaniline	10.8	POS PARK	mg/kg	0	mg/kg																									
4-Nitrophenol	7600	POS PARK	mg/kg	0	mg/kg																									
Styrene	3170	Commercial	mg/kg	0	mg/kg																									
Azobenzene	10.8	POS PARK	mg/kg	0	mg/kg																									

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	AEC18-LF-TP222	AEC18-LF-TP223	AEC18-LF-TP223	AEC18-LF-TP223	AEC18-LF-TP224	AEC18-LF-TP224	AEC18-LF-TP224	AEC18-LF-TP224	AEC18-LF-TP225	AEC18-LF-TP225	AEC18-LF-TP225	AEC18-LF-TP226	AEC18-LF-TP226	AEC18-LF-TP227	AEC18-LF-TP227	AEC18-LF-TP227	AEC18-LF-TP228	AEC18-LF-TP228	AEC18-LF-TP228	AEC18-LF-TP229	AEC18-LF-TP229	AEC18-LF-TP229	AEC18-LF-TP232	AEC18-LF-TP232
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
n-propylbenzene	3860	Commercial	mg/kg	0	mg/kg																								
n-Butylbenzene	26.598	Commercial	mg/kg	0	mg/kg																								
2,4-Dimethylphenol	9180	POS PARK	mg/kg	0	mg/kg																								
3/4 Methylphenol	46000	POS PARK	mg/kg	0	mg/kg																								
1,4-Dichlorobenzene	4220	Commercial	mg/kg	0	mg/kg																								
1,2-Dichloroethane	0.671	Commercial	mg/kg	0	mg/kg																								
1,3,5-Trimethylbenzene	39.4	Commercial	mg/kg	0	mg/kg																								
Bromobenzene	91.5	Commercial	mg/kg	0	mg/kg																								
Chlorobenzene	55.6	Commercial	mg/kg	0	mg/kg																								
Phenol	7600	POS PARK	mg/kg	0	mg/kg	0.0	<0.01	<0.05	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bis(2-chloroethoxy)methane	0.956	Commercial	mg/kg	0	mg/kg																								
Bis(2-ethylhexyl)phthalate	16600	POS PARK	mg/kg	0	mg/kg																								
Di-N-Octyl Phthalate	20000	POS PARK	mg/kg	0	mg/kg																								
Hexachlorobenzene (HCB)	28.9	POS PARK	mg/kg	0	mg/kg																								
1,2,4-Trichlorobenzene	215	Commercial	mg/kg	0	mg/kg																								
2,4-Dichlorophenol	977	POS PARK	mg/kg	0	mg/kg																								
2,4-Dinitrotoluene	928	POS PARK	mg/kg	0	mg/kg																								
Dibromochloromethane	1.96	Commercial	mg/kg	0	mg/kg																								
Tetrachloroethene	18.6	Commercial	mg/kg	0	mg/kg																								
Dimethylphthalate	2630	POS PARK	mg/kg	0	mg/kg																								
Dibenzofuran	10.8	POS PARK	mg/kg	0	mg/kg																								
Sec-Butylbenzene	26.6	Commercial	mg/kg	0	mg/kg																								
cis-1,2-Dichloroethene	13.6	Commercial	mg/kg	0	mg/kg																								
trans-1,2-Dichloroethene	20.7	Commercial	mg/kg	0	mg/kg																								
Methyl tert-butyl ether (MTBE)	7480	Commercial	mg/kg	0	mg/kg																								
1,3-Dichlorobenzene	29.9	Commercial	mg/kg	0	mg/kg																								
Tetrachloromethane (Carbon Tetra Chloride)	2.87	Commercial	mg/kg	0	mg/kg																								
2,3,4,6-Tetrachlorophenol	1000	POS PARK	mg/kg	0	mg/kg																								
4-Chloro-3-Methylphenol	46100	POS PARK	mg/kg	0	mg/kg																								
2,6-Dinitrotoluene	468	POS PARK	mg/kg	0	mg/kg																								
1,1,1,2-Tetrachloroethane	108	Commercial	mg/kg	0	mg/kg																								
Chloroform	99.1	Commercial	mg/kg	0	mg/kg																								
1,1,1-Trichloroethane	660	Commercial	mg/kg	0	mg/kg																								
Chloroethene	0.0594	Commercial	mg/kg	0	mg/kg																								
Tribromomethane	714	Commercial	mg/kg	0	mg/kg																								
Bromodichloromethane	1.96	Commercial	mg/kg	0	mg/kg																								
1,1-Dichloroethane	263	Commercial	mg/kg	0	mg/kg																								
1,1-Dichloroethene	24.3	Commercial	mg/kg	0	mg/kg																								
1,2-Dichloropropane	3.13	Commercial	mg/kg	0	mg/kg																								
1,1,2-Trichloroethane	89.1	Commercial	mg/kg	0	mg/kg																								
Trichloroethene	1.23	Commercial	mg/kg	0	mg/kg																								
Diethylphthalate	89300	POS PARK	mg/kg	0	mg/kg																								
Di-N-Butyl Phthalate	2630	POS PARK	mg/kg	0	mg/kg																								
Butylbenzylphthalate	254000	POS PARK	mg/kg	0	mg/kg																								
Carbazole	10.8	POS PARK	mg/kg	0	mg/kg																								
1,2,3 Trichlorobenzene	102	Commercial	mg/kg	0	mg/kg																								
Hexachlorobutadiene (HCBD)	30.7	Commercial	mg/kg	0	mg/kg																								
Pentachlorophenol (PCP)	113	POS PARK	mg/kg	0	mg/kg																								
2,4,6-Trichlorophenol	1010	POS PARK	mg/kg	0	mg/kg																								
2-Nitroaniline	10.8	POS PARK	mg/kg	0	mg/kg																								
2-Methylnaphthalene	193	Commercial	mg/kg	0	mg/kg																								
2-Chloronaphthalene	370	Commercial	mg/kg	0	mg/kg																								
2,3,5,6-Tetrachlorophenol	1000	POS PARK	mg/kg	0	mg/kg																								

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	AEC18-LF-TP222	AEC18-LF-TP223	AEC18-LF-TP223	AEC18-LF-TP223	AEC18-LF-TP224	AEC18-LF-TP224	AEC18-LF-TP224	AEC18-LF-TP224	AEC18-LF-TP225	AEC18-LF-TP225	AEC18-LF-TP225	AEC18-LF-TP226	AEC18-LF-TP226	AEC18-LF-TP227	AEC18-LF-TP227	AEC18-LF-TP227	AEC18-LF-TP228	AEC18-LF-TP228	AEC18-LF-TP228	AEC18-LF-TP229	AEC18-LF-TP229	AEC18-LF-TP229	AEC18-LF-TP232	AEC18-LF-TP232
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
O-Xylene	6603.1	Commercial	mg/kg	0	mg/kg																								
2-Methylphenol	46100	POS PARK	mg/kg	0	mg/kg																								
1,2-Dichlorobenzene	2020	Commercial	mg/kg	0	mg/kg																								
2-Chlorophenol	1010	POS PARK	mg/kg	0	mg/kg																								
1,2,4-Trimethylbenzene	39.4	Commercial	mg/kg	0	mg/kg																								
2,4,5-Trichlorophenol	1010	POS PARK	mg/kg	0	mg/kg	<0.01																				<0.01			
Isopropylbenzene	1300	Commercial	mg/kg	0	mg/kg																								
4-Isopropyltoluene	1300	Commercial	mg/kg	0	mg/kg																								
m,p xylenes	5923.3	Commercial	mg/kg	0	mg/kg																								
Chromium - Hexavalent	220	POS PARK	mg/kg	0	mg/kg	<0.6		<0.3									<0.3	<0.6							<0.3		<0.6		
Cyanide Free	168	Commercial	mg/kg	0	mg/kg			<0.5																					
Complex Cyanide	3460	POS PARK	mg/kg	0	mg/kg			<0.5																					
4-Nitrophenol	7600000	POS PARK	ug/kg	0	ug/kg			<500	<100			<100	<100				<500	<100	<100						<100	<100	<100	<200	<500
Ethylbenzene	5705504.8	Commercial	ug/kg	0	ug/kg	2550.0		<40	225.0		<4	29.3	<80			1760.0	10.3	<80		<80	861.0	94.5	137.0	164.0	471.0	389.0	<4	6.7	
Styrene	3170000	Commercial	ug/kg	0	ug/kg			<100	<100			<10	<200				<200	<10	<200					<200	<10	<200	<10	<10	<10
n-Propylbenzene	3860000	Commercial	ug/kg	0	ug/kg			<100	<100			18.9	<200				<200	<10	<200					<200	<10	<200	125.0	<10	<10
n-Butylbenzene	26597.9	Commercial	ug/kg	0	ug/kg			<110	<110			22.1	<220				<220	<11	<220					<220	<11	<220	144.0	<11	<11
2,4-Dimethylphenol	9180000	POS PARK	ug/kg	0	ug/kg			<500	<100			<100	<100				<500	<100	<100					<100	148.0	<100	<100	<200	<500
4-Methylphenol	46000000	POS PARK	ug/kg	0	ug/kg			<500	<100			<100	<100				<500	<100	<100					<100	<100	<100	<200	<500	
1,4-Dichlorobenzene	4220000	Commercial	ug/kg	0	ug/kg			<50	117.0			<100	271.0				<500	<100	2100.0					<100	<100	<100	<200	<500	
1,2-Dichloroethane	671	Commercial	ug/kg	0	ug/kg			<50	<50			<5	<100				<100	<5	<100					<100	<5	<100	<5	<5	<5
1,3,5-Trimethylbenzene	39400	Commercial	ug/kg	3	ug/kg			<80	176.0			113.0	311.0				433.0	71.4	321.0					267.0	43.0	387.0	744.0	<8	<8
Bromobenzene	91500	Commercial	ug/kg	0	ug/kg			<100	<100			<10	<200				<200	<10	<200					<200	<10	<200	<10	<10	<10
Toluene VOC	56293712.79	Commercial	ug/kg	0	ug/kg	<140		<70	<70		<7	<7	<140				<140	<7	<140		<140	<140	<7	<7	<7	<140	<7	<7	<7
Chlorobenzene	55600	Commercial	ug/kg	0	ug/kg			<50	<50			8.6	506.0				<100	<5	<100					<100	<5	<100	<5	<5	<5
Phenol SVOC	7600000	POS PARK	ug/kg	0	ug/kg			<500	262.0			153.0	155.0				<500	151.0	188.0					157.0	114.0	<100	<100	<200	<500
Bis(2-chloroethoxy)methane	956	Commercial	ug/kg	1	ug/kg			<500	<100			<100	<100				<500	<100	<100					<100	<100	<100	<200	<500	
Bis(2-ethylhexyl)phthalate	16600000	POS PARK	ug/kg	0	ug/kg			710.0	2090.0			354.0	1600.0				2460.0	696.0	1230.0					436.0	2020.0	3000.0	135000.0	<200	<500
n-Dioctylphthalate	20000000	POS PARK	ug/kg	0	ug/kg			<500	<100			<100	<100				<500	<100	<100					<100	<100	627.0	229.0	<200	<500
Hexachlorobenzene	28900	POS PARK	ug/kg	0	ug/kg	<2000		<500	<100			<100	<100				<500	<100	<100					<100	<100	<100	<200	<500	
1,2,4-Trichlorobenzene	215000	Commercial	ug/kg	0	ug/kg			<200	<100			<100	<100				<400	<100	<100					<100	<100	<100	<20	<20	
2,4-Dichlorophenol	977000	POS PARK	ug/kg	0	ug/kg			<500	<100			<100	<100				<500	<100	<100					<100	<100	<100	<200	<500	
2,4-Dinitrotoluene	928000	POS PARK	ug/kg	0	ug/kg			<500	<100			<100	<100				<500	<100	<100					<100	<100	<100	<200	<500	
Dibromochloromethane	1960	Commercial	ug/kg	0	ug/kg			<100	<100			<10	<200				<200	<10	<200					<200	<10	<200	<10	<10	<10
Tetrachloroethene	18600	Commercial	ug/kg	0	ug/kg			<50	<50			<5	<100				<100	<5	<100					<100	<5	<100	<5	<5	<5
Dimethyl phthalate	2630000	POS PARK	ug/kg	0	ug/kg			<500	<100			<100	<100				<500	<100	<100					<100	<100	<100	<200	<500	
Dibenzofuran	10800	POS PARK	ug/kg	5	ug/kg			10800.0	185.0			590.0	<100				<500	464.0	<100					<100	<100	154.0	267.0	<200	12400.0
sec-Butylbenzene	26597.8811	Commercial	ug/kg	0	ug/kg			<100	<100			14.9	<200				<200	<10	<200					<200	<10	<200	75.4	<10	<10
cis 1,2-Dichloroethene	13600	Commercial	ug/kg	0	ug/kg			<60	<60			<6	<120				<120	<6	<120					<120	<6	<120	<6	<6	<6
trans 1,2-Dichloroethene	20700	Commercial	ug/kg	0	ug/kg			<100	<100			<10	<200				<200	<10	<200					<200	<10	<200	<10	<10	<10
Perylene	10800000	POS PARK	ug/kg	0	ug/kg																								
1,3-Dichlorobenzene	29900	Commercial	ug/kg	0	ug/kg			<500	<100			<100	<100				<160	<100	<100					<100	<100	<100	<200	<500	
Carbon Tetrachloride	2870	Commercial	ug/kg	0	ug/kg			<100	<100			<10	<200				<200	<10	<200					<200	<10	<200	<10	<10	<10
4-Chloro-3-methylphenol	46100000	POS PARK	ug/kg	0	ug/kg			<500	<100			<100	<100				<500	<100	<100					<100	<100	<100	<200	<500	
2,6-Dinitrotoluene	468000	POS PARK	ug/kg	0	ug/kg			<500	<100			<100	<100				<500	<100	6240.0					<100	<100	<100	<200	<500	
1,1,1,2-Tetrachloroethane	108000	Commercial	ug/kg	0	ug/kg			<100	<100			<10	<200				<200	<10	<200					<200	<10	<200	<10	<10	<10
Chloroform	99100	Commercial	ug/kg	0	ug/kg			<80	<80			<8	<160				<160	<8	<160					<160	<8	<160	<8	<8	<8
Hexachloroethane	20900000	Commercial	ug/kg	0	ug/kg			<500	<100			<100	<100				<500	<100	<100					<100	<100	<100	<200	<500	
Benzene VOC	26597.9	Commercial	ug/kg	0	ug/kg	<180		<90	<90		<9	<9	<180				<180	<9	<180		<180	<180	<9	<9	<9	<180	22.6	<9	<9
1																													

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	AEC18-LF-TP222	AEC18-LF-TP223	AEC18-LF-TP223	AEC18-LF-TP223	AEC18-LF-TP224	AEC18-LF-TP224	AEC18-LF-TP224	AEC18-LF-TP224	AEC18-LF-TP225	AEC18-LF-TP225	AEC18-LF-TP225	AEC18-LF-TP226	AEC18-LF-TP226	AEC18-LF-TP227	AEC18-LF-TP227	AEC18-LF-TP227	AEC18-LF-TP228	AEC18-LF-TP228	AEC18-LF-TP228	AEC18-LF-TP229	AEC18-LF-TP229	AEC18-LF-TP229	AEC18-LF-TP232	AEC18-LF-TP232	
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Benzo(k)fluoranthene SVOC	114000	POS Maintenance	ug/kg	0	ug/kg	935.0		17200.0	60.8		330.0	224.0	378.0			<500	1640.0	413.0		76.3	145.0	157.0	136.0	224.0		242.0	787.0	54.3	6670.0	
Acenaphthylene SVOC	28900000	POS PARK	ug/kg	0	ug/kg	112.0		<12	<100		39.2	54.7	<100			<500	267.0	<100		19.2	<100	<60	<100	48.7		<100	<100	<12	1590.0	
Chrysene SVOC	91000	POS Maintenance	ug/kg	1	ug/kg	956.0		26600.0	153.0		526.0	482.0	219.0			<500	2310.0	902.0		145.0	157.0	260.0	205.0	339.0		653.0	851.0	83.2	11900.0	
Benzo(a)pyrene SVOC	10800	POS PARK	ug/kg	8	ug/kg	1620.0		25600.0	108.0		701.0	1390.0	689.0			<500	3890.0	938.0		164.0	169.0	329.0	244.0	530.0		381.0	940.0	107.0	13600.0	
Dibenzo(ah)anthracene SVOC	1150	POS PARK	ug/kg	10	ug/kg	240.0		3790.0	<100		102.0	75.1	<100			<500	554.0	<100		26.4	<100	<115	<100	74.5		<100	<100	<23	2030.0	
Benzo(a)anthracene SVOC	48800	POS PARK	ug/kg	2	ug/kg	1060.0		34000.0	152.0		684.0	590.0	604.0			640.0	2520.0	950.0		181.0	157.0	265.0	228.0	269.0		505.0	1090.0	94.2	14300.0	
Acenaphthene SVOC	28900000	POS PARK	ug/kg	0	ug/kg	317.0		11800.0	196.0		59.9	288.0	155.0			<500	963.0	210.0		56.3	<100	<40	<100	111.0		256.0	318.0	11.3	4360.0	
Phenanthrene SVOC	6170000	POS PARK	ug/kg	0	ug/kg	1690.0		98800.0	729.0		609.0	2210.0	581.0			653.0	1050.0	1490.0		324.0	290.0	208.0	445.0	516.0		1190.0	1790.0	67.0	41700.0	
Fluorene SVOC	19600000	POS PARK	ug/kg	0	ug/kg	358.0		15100.0	209.0		58.1	463.0	129.0			<500	684.0	200.0		50.7	<100	<50	<100	172.0		230.0	445.0	13.2	9240.0	
Naphthalene SVOC	193000	Commercial	ug/kg	1	ug/kg	186.0		<500	<130		15.7	234.0	490.0			<260	19.3	<100		141.0	<100	<45	37.4	68.9		243.0	330.0	<200	1880.0	
Xylenols	9180	POS PARK	mg/kg	0	mg/kg	<0.015	<0.015	<0.075	<0.075	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	0.1	0.0	<0.015	0.0	0.2	<0.015	0.1
Cresols	46100	POS PARK	mg/kg	0	mg/kg	0.0	<0.01	<0.05	0.1	<0.01	<0.01	0.0	<0.01	<0.01	<0.01	<0.01	<0.01	0.0	0.0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.0
Tributyltin	42400	POS PARK	mg/kg	0	mg/kg	<0.02															<0.02	<0.02				<0.02				
Methyl tert-butyl ether (MTBE)	7480000	Commercial	ug/kg	0	ug/kg	<200		<100	<100		<10	<200				<200	<10	<200			<200	<10	<10			<200	<10	<10	<10	
Aromatics >C6-7	27000000	Commercial	ug/kg	0	ug/kg	14.3		<10	<10			<10					<10	<10				<10	<10				16.5	<10	<10	
Aromatics >C7-8	56293712.8	Commercial	ug/kg	0	ug/kg	<10		<10	29.5			<10					<10	43.8				<10	<10				<10	<10	<10	
Aromatics >C8-10	3460000	Commercial	ug/kg	0	ug/kg	2610.0		1720.0	2260.0			3100.0					2020.0	2550.0				400.0	658.0				3840.0	181.0	348.0	
Aromatics >C10-12	9240000	POS PARK	ug/kg	0	ug/kg	419.0		657.0	430.0			2110.0					517.0	1780.0				168.0	122.0				2580.0	552.0	727.0	
Aromatics >C12-16	10200000	POS PARK	ug/kg	0	ug/kg	13500.0		22100.0	24800.0			5450.0					5700.0	14600.0				<100	<100				46200.0	1080.0	53000.0	
Aromatics >C16-21	7630000	POS PARK	ug/kg	0	ug/kg	196000.0		105000.0	89700.0			63500.0					43700.0	117000.0				<100	11000.0				86700.0	5490.0	160000.0	
Aromatics >C21-35	7820000	POS PARK	ug/kg	1	ug/kg	1350000.0		343000.0	524000.0			306000.0					162000.0	323000.0				24900.0	104000.0				320000.0	19500.0	400000.0	
Aromatics >C35-44	7820000	POS PARK	ug/kg	0	ug/kg	398000.0		117000.0	133000.0			45100.0					36000.0	59700.0				4560.0	18300.0				60900.0	5830.0	140000.0	
Aliphatics >C5-6	3190000	Commercial	ug/kg	0	ug/kg	71.4		29.8	44.7			21.9				12.8	32.5					17.1	<10				36.8	29.5	16.1	
Aliphatics >C6-8	7780000	Commercial	ug/kg	0	ug/kg	2270.0		751.0	406.0			315.0				179.0	1580.0					35.3	22.8				404.0	153.0	92.0	
Aliphatics >C8-10	2000000	Commercial	ug/kg	1	ug/kg	1790.0		1720.0	1070.0			2890.0					1570.0	2780.0				120.0	264.0				3120.0	271.0	523.0	
Aliphatics >C10-12	9690000	Commercial	ug/kg	0	ug/kg	628.0		987.0	645.0			3160.0					776.0	2670.0				252.0	182.0				3860.0	828.0	1090.0	
Aliphatics >C12-16	24700000	POS PARK	ug/kg	0	ug/kg	37700.0		15800.0	85100.0			9210.0					10100.0	19800.0				578.0	1790.0				87900.0	2260.0	28000.0	
Aliphatics >C16-21	45500000	POS PARK	ug/kg	0	ug/kg	335000.0		73000.0	262000.0			47000.0					52200.0	90500.0				5790.0	19500.0				181000.0	7930.0	76000.0	
Aliphatics >C21-35	45500000	POS PARK	ug/kg	0	ug/kg	3220000.0		546000.0	2010000.0			187000.0					205000.0	315000.0				72300.0	177000.0				819000.0	14500.0	349000.0	
Aliphatics >C35-44	45500000	POS PARK	ug/kg	0	ug/kg	665000.0		185000.0	391000.0			47900.0					51500.0	74500.0				15500.0	24400.0				96100.0	<100	91200.0	
Trivalent Chromium	33000	POS PARK	mg/kg	0	mg/kg			<0.3									<0.3						<0.3							
Molybdenum	2890	POS PARK	mg/kg	0	mg/kg			0.4									0.1							0.1						
4-Nitroaniline	10800	POS PARK	ug/kg	0	ug/kg			1220.0	<100			<100	<100			<500	<100	<100			<100	<100				<100	<100	<200	<500	
Azobenzene	10800	POS PARK	ug/kg	0	ug/kg			<500	<100			<100	<100			<500	<100	<100			<100	<100				<100	<100	<200	<500	
4-Chloroaniline	10800000	POS PARK	ug/kg	0	ug/kg			<500	<100			<100	<100			<500	<100	<100			<100	<100				<100	<100	<200	<500	
2-Nitroaniline	10800	POS PARK	ug/kg	0	ug/kg			<500	<100			<100	<100			<500	<100	<100			<100	<100				<100	<100	<200	<500	

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Sample Type	Hole Ref	AEC18-LF-TP233	AEC18-LF-TP233	AEC18-LF-TP236	AEC18-LF-TP236	AEC18-LF-TP236	AEC18-LF-TP237	AEC18-LF-TP237	AEC18-LF-TP239	AEC18-LF-TP239	AEC18-LF-TP239	AEC18-LF-TP241	AEC18-LF-TP241	AEC18-LF-TP242	AEC18-LF-TP242	AEC18-LF-TP243	AEC18-LF-TP243	AEC18-LF-TP244	AEC18-LF-TP244	AEC18-LF-TP246	AEC18-LF-TP246	AEC18-LF-TP246	AEC18-LF-TP247	AEC18-LF-TP247
						Sample Top	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref
Ethylbenzene	5705.5	Commercial	mg/kg	0	mg/kg																								
Toluene	56293.7	Commercial	mg/kg	0	mg/kg																								
Anthracene	149000	POS PARK	mg/kg	0	mg/kg																								
Pyrene	15100	POS PARK	mg/kg	0	mg/kg																								
Xylene	6603.1	Commercial	mg/kg	0	mg/kg																								
Benzo (g,h,i) perylene	612	POS Maintenance	mg/kg	0	mg/kg																								
Indeno(1,2,3-cd)pyrene	44	POS Maintenance	mg/kg	0	mg/kg																								
Benzo(b)fluoranthene	13.2	POS PARK	mg/kg	4	mg/kg																								
Fluoranthene	6300	POS PARK	mg/kg	0	mg/kg																								
Benzo(k)fluoranthene	114	POS Maintenance	mg/kg	0	mg/kg																								
Acenaphthylene	28900	POS PARK	mg/kg	0	mg/kg																								
Chrysene	91	POS Maintenance	mg/kg	0	mg/kg																								
Benzo(a)pyrene	10.8	POS PARK	mg/kg	4	mg/kg																								
Dibenz-a-h-anthracene	1.15	POS PARK	mg/kg	5	mg/kg																								
Benzo(a)anthracene	48.8	POS PARK	mg/kg	0	mg/kg																								
Cyanide	24	POS PARK	mg/kg	5	mg/kg	<1	<1	<1	1.1	<1	<0.5	<1	<1	13.1	5.9	<0.5	<1	155.0	<1	4.7	6.4	<1	<1	<1	<1	<1	<1	<1	<1
Benzene	26.60	Commercial	mg/kg	0	mg/kg																								
Lead	1300	POS PARK	mg/kg	13	mg/kg	48.9	209.0	11.0	93.2	93.3	0.0	39.8	168.0	124.0	145.0	210.0	555.0	267.0	84.9	81.9	437.0	24.2	53.1	28.5	91.6	114.0	25.1	31.9	
Mercury	244	POS PARK	mg/kg	0	mg/kg	<0.14	<0.14	<0.14	<0.14	<0.14	<0.0001	<0.14	<0.14	<0.14	<1.4	<0.0001	<0.14	<0.14	<0.14	<1.4	1.4	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14
Nickel	804	POS PARK	mg/kg	8	mg/kg	27.2	14.8	7.0	86.5	24.1	0.4	13.7	17.4	30.5	1080.0	0.2	38.3	18100.0	28.5	69.4	72.7	20.5	24.5	19.0	27.4	17.7	21.0	37.5	
Antimony	3290	POS PARK	mg/kg	0	mg/kg	<0.6	<0.6	<0.6	<0.6	4.8	0.2	<0.6	2.7	6.0	12.0	0.1	1.8	63.3	<0.6	<6	13.7	<0.6	<0.6	<0.6	<0.6	2.1	<0.6	<0.6	
Arsenic	168	POS PARK	mg/kg	0	mg/kg	16.0	19.3	5.4	16.4	16.1	0.1	7.6	8.7	19.3	22.8	0.0	18.6	16.0	17.0	31.1	22.0	13.8	15.2	22.6	16.0	12.2	14.8	22.6	
Beryllium	11.7	Commercial	mg/kg	1	mg/kg	1.0	0.9	0.5	1.0	0.8	<0.001	0.7	0.8	3.7	0.5	<0.001	2.2	0.6	1.1	0.7	1.4	0.9	1.0	1.0	1.2	0.5	1.0	1.0	
Boron	46200	POS PARK	mg/kg	0	mg/kg	<1	1.9	<1	5.3	2.4	2.8	<1	<1	3.2	3.5	6.0	1.9	44.0	1.7	2.0	3.3	<1	<1	<1	1.5	3.1	<1	<1	
Cadmium	190	Commercial	mg/kg	0	mg/kg	0.2	0.2	<0.02	0.5	<0.02	<0.0008	<0.02	0.9	0.5	2.0	0.0	0.3	0.1	0.5	0.9	0.6	0.1	0.7	0.1	0.2	1.2	0.2	0.4	
Chromium	8570	Commercial	mg/kg	1	mg/kg	31.7	30.6	8.7	36.7	21.0	164.0	9.9	14.9	9.0	412.0	0.1	26.0	8670.0	19.1	131.0	18.2	25.2	18.0	36.5	34.1	10.8	25.5	10.2	
Copper	44400	POS PARK	mg/kg	2	mg/kg	26.8	25.6	8.3	58.0	34.3	0.1	70.1	46.3	1370.0	195.0	78200.0	51.2	3910.0	54.7	107.0	87600.0	19.1	297.0	24.4	23.4	36.8	16.7	18.4	
Vanadium	2820	POS Maintenance	mg/kg	0	mg/kg	45.4	36.6	18.5	38.3	42.9	0.0	67.4	29.5	35.0	28.9	<0.01	51.0	5.8	43.0	74.5	27.4	51.2	48.7	60.8	63.0	24.2	52.4	41.9	
Zinc	173000	POS PARK	mg/kg	0	mg/kg	159.0	182.0	30.7	262.0	152.0	2260.0	81.0	393.0	156.0	691.0	92000.0	315.0	7900.0	222.0	185.0	445.0	60.8	172.0	88.0	80.8	147.0	85.8	104.0	
Selenium	1850	POS PARK	mg/kg	0	mg/kg	<1	<1	<1	<1	1.9	<0.01	<1	<1	<1	<10	<0.01	<1	<1	<1	<10	1.0	<1	<1	<1	<1	<1	<1	<1	
Acenaphthene	28900	POS PARK	mg/kg	0	mg/kg																								
Phenanthrene	6170	POS PARK	mg/kg	0	mg/kg																								
Fluorene	19600	POS PARK	mg/kg	0	mg/kg																								
Naphthalene	193	Commercial	mg/kg	0	mg/kg																								
Phenol (Monohydric)	7600	POS Maintenance	mg/kg	0	mg/kg	<0.035	<0.035	<0.035	0.1	<0.035	0.4	<0.035	<0.035	<0.035	<0.035	0.3	<0.035	0.3	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	
Aromatics >C7-8	56293.7	Commercial	mg/kg	0	mg/kg																								
Aromatics >C8-10	3460	Commercial	mg/kg	0	mg/kg																								
Aromatics >C10-12	9240	POS PARK	mg/kg	0	mg/kg																								
Aromatics >C12-16	10200	POS PARK	mg/kg	0	mg/kg																								
Aromatics >C16-21	7630	POS PARK	mg/kg	0	mg/kg																								
Aromatics >C21-35	7820	POS PARK	mg/kg	0	mg/kg																								
Aliphatics >C5-6	3190	Commercial	mg/kg	0	mg/kg																								
Aliphatics >C6-8	7780	Commercial	mg/kg	0	mg/kg																								
Aliphatics >C8-10	2000	Commercial	mg/kg	0	mg/kg																								
Aliphatics >C10-12	9690	Commercial	mg/kg	0	mg/kg																								
Aliphatics >C12-16	24700	POS PARK	mg/kg	0	mg/kg																								
Aliphatics >C16-21	455000	POS PARK	mg/kg	0	mg/kg																								
Aliphatics >C21-35	455000	POS PARK	mg/kg	0	mg/kg																								
Aromatics >C5-7	27	Commercial	mg/kg	0	mg/kg																								
4-Nitroaniline	10.8	POS PARK	mg/kg	0	mg/kg																								
4-Nitrophenol	7600	POS PARK	mg/kg	0	mg/kg																								
Styrene	3170	Commercial	mg/kg	0	mg/kg																								
Azobenzene	10.8	POS PARK	mg/kg	0	mg/kg																								

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	AEC18-LF-TP233	AEC18-LF-TP233	AEC18-LF-TP236	AEC18-LF-TP236	AEC18-LF-TP236	AEC18-LF-TP237	AEC18-LF-TP237	AEC18-LF-TP239	AEC18-LF-TP239	AEC18-LF-TP239	AEC18-LF-TP241	AEC18-LF-TP241	AEC18-LF-TP242	AEC18-LF-TP242	AEC18-LF-TP243	AEC18-LF-TP243	AEC18-LF-TP244	AEC18-LF-TP244	AEC18-LF-TP246	AEC18-LF-TP246	AEC18-LF-TP246	AEC18-LF-TP247	AEC18-LF-TP247
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
n-propylbenzene	3860	Commercial	mg/kg	0	mg/kg																							
n-Butylbenzene	26.598	Commercial	mg/kg	0	mg/kg																							
2,4-Dimethylphenol	9180	POS PARK	mg/kg	0	mg/kg																							
3/4 Methylphenol	46000	POS PARK	mg/kg	0	mg/kg																							
1,4-Dichlorobenzene	4220	Commercial	mg/kg	0	mg/kg																							
1,2-Dichloroethane	0.671	Commercial	mg/kg	0	mg/kg																							
1,3,5-Trimethylbenzene	39.4	Commercial	mg/kg	0	mg/kg																							
Bromobenzene	91.5	Commercial	mg/kg	0	mg/kg																							
Chlorobenzene	55.6	Commercial	mg/kg	0	mg/kg																							
Phenol	7600	POS PARK	mg/kg	0	mg/kg	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01	<0.01	<0.01	0.0	<0.01	0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bis(2-chloroethoxy)methane	0.956	Commercial	mg/kg	0	mg/kg																							
Bis(2-ethylhexyl)phthalate	16600	POS PARK	mg/kg	0	mg/kg																							
Di-N-Octyl Phthalate	20000	POS PARK	mg/kg	0	mg/kg																							
Hexachlorobenzene (HCB)	28.9	POS PARK	mg/kg	0	mg/kg																							
1,2,4-Trichlorobenzene	215	Commercial	mg/kg	0	mg/kg																							
2,4-Dichlorophenol	977	POS PARK	mg/kg	0	mg/kg																							
2,4-Dinitrotoluene	928	POS PARK	mg/kg	0	mg/kg																							
Dibromochloromethane	1.96	Commercial	mg/kg	0	mg/kg																							
Tetrachloroethene	18.6	Commercial	mg/kg	0	mg/kg																							
Dimethylphthalate	2630	POS PARK	mg/kg	0	mg/kg																							
Dibenzofuran	10.8	POS PARK	mg/kg	0	mg/kg																							
Sec-Butylbenzene	26.6	Commercial	mg/kg	0	mg/kg																							
cis-1,2-Dichloroethene	13.6	Commercial	mg/kg	0	mg/kg																							
trans-1,2-Dichloroethene	20.7	Commercial	mg/kg	0	mg/kg																							
Methyl tert-butyl ether (MTBE)	7480	Commercial	mg/kg	0	mg/kg																							
1,3-Dichlorobenzene	29.9	Commercial	mg/kg	0	mg/kg																							
Tetrachloromethane (Carbon Tetra Chloride)	2.87	Commercial	mg/kg	0	mg/kg																							
2,3,4,6-Tetrachlorophenol	1000	POS PARK	mg/kg	0	mg/kg																							
4-Chloro-3-Methylphenol	46100	POS PARK	mg/kg	0	mg/kg																							
2,6-Dinitrotoluene	468	POS PARK	mg/kg	0	mg/kg																							
1,1,1,2-Tetrachloroethane	108	Commercial	mg/kg	0	mg/kg																							
Chloroform	99.1	Commercial	mg/kg	0	mg/kg																							
1,1,1-Trichloroethane	660	Commercial	mg/kg	0	mg/kg																							
Chloroethene	0.0594	Commercial	mg/kg	0	mg/kg																							
Tribromomethane	714	Commercial	mg/kg	0	mg/kg																							
Bromodichloromethane	1.96	Commercial	mg/kg	0	mg/kg																							
1,1-Dichloroethane	263	Commercial	mg/kg	0	mg/kg																							
1,1-Dichloroethene	24.3	Commercial	mg/kg	0	mg/kg																							
1,2-Dichloropropane	3.13	Commercial	mg/kg	0	mg/kg																							
1,1,2-Trichloroethane	89.1	Commercial	mg/kg	0	mg/kg																							
Trichloroethene	1.23	Commercial	mg/kg	0	mg/kg																							
Diethylphthalate	89300	POS PARK	mg/kg	0	mg/kg																							
Di-N-Butyl Phthalate	2630	POS PARK	mg/kg	0	mg/kg																							
Butylbenzylphthalate	254000	POS PARK	mg/kg	0	mg/kg																							
Carbazole	10.8	POS PARK	mg/kg	0	mg/kg																							
1,2,3 Trichlorobenzene	102	Commercial	mg/kg	0	mg/kg																							
Hexachlorobutadiene (HCBd)	30.7	Commercial	mg/kg	0	mg/kg																							
Pentachlorophenol (PCP)	113	POS PARK	mg/kg	0	mg/kg																							
2,4,6-Trichlorophenol	1010	POS PARK	mg/kg	0	mg/kg																							
2-Nitroaniline	10.8	POS PARK	mg/kg	0	mg/kg																							
2-Methylnaphthalene	193	Commercial	mg/kg	0	mg/kg																							
2-Chloronaphthalene	370	Commercial	mg/kg	0	mg/kg																							
2,3,5,6-Tetrachlorophenol	1000	POS PARK	mg/kg	0	mg/kg																							

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	AEC18-LF-TP233	AEC18-LF-TP233	AEC18-LF-TP236	AEC18-LF-TP236	AEC18-LF-TP236	AEC18-LF-TP237	AEC18-LF-TP237	AEC18-LF-TP239	AEC18-LF-TP239	AEC18-LF-TP239	AEC18-LF-TP241	AEC18-LF-TP241	AEC18-LF-TP242	AEC18-LF-TP242	AEC18-LF-TP243	AEC18-LF-TP243	AEC18-LF-TP244	AEC18-LF-TP244	AEC18-LF-TP246	AEC18-LF-TP246	AEC18-LF-TP246	AEC18-LF-TP247	AEC18-LF-TP247
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
O-Xylene	6603.1	Commercial	mg/kg	0	mg/kg																							
2-Methylphenol	46100	POS PARK	mg/kg	0	mg/kg																							
1,2-Dichlorobenzene	2020	Commercial	mg/kg	0	mg/kg																							
2-Chlorophenol	1010	POS PARK	mg/kg	0	mg/kg																							
1,2,4-Trimethylbenzene	39.4	Commercial	mg/kg	0	mg/kg																							
2,4,5-Trichlorophenol	1010	POS PARK	mg/kg	0	mg/kg																							
Isopropylbenzene	1300	Commercial	mg/kg	0	mg/kg																							
4-Isopropyltoluene	1300	Commercial	mg/kg	0	mg/kg																							
m,p xylenes	5923.3	Commercial	mg/kg	0	mg/kg																							
Chromium - Hexavalent	220	POS PARK	mg/kg	0	mg/kg																							
Cyanide Free	168	Commercial	mg/kg	0	mg/kg																							
Complex Cyanide	3460	POS PARK	mg/kg	0	mg/kg																							
4-Nitrophenol	7600000	POS PARK	ug/kg	0	ug/kg																							
Ethylbenzene	5705504.8	Commercial	ug/kg	0	ug/kg																							
Styrene	3170000	Commercial	ug/kg	0	ug/kg																							
n-Propylbenzene	3860000	Commercial	ug/kg	0	ug/kg																							
n-Butylbenzene	26597.9	Commercial	ug/kg	0	ug/kg																							
2,4-Dimethylphenol	9180000	POS PARK	ug/kg	0	ug/kg																							
4-Methylphenol	46000000	POS PARK	ug/kg	0	ug/kg																							
1,4-Dichlorobenzene	4220000	Commercial	ug/kg	0	ug/kg																							
1,2-Dichloroethane	671	Commercial	ug/kg	0	ug/kg																							
1,3,5-Trimethylbenzene	39400	Commercial	ug/kg	3	ug/kg																							
Bromobenzene	91500	Commercial	ug/kg	0	ug/kg																							
Toluene VOC	56293712.79	Commercial	ug/kg	0	ug/kg																							
Chlorobenzene	55600	Commercial	ug/kg	0	ug/kg																							
Phenol SVOC	7600000	POS PARK	ug/kg	0	ug/kg																							
Bis(2-chloroethoxy)methane	956	Commercial	ug/kg	1	ug/kg																							
Bis(2-ethylhexyl)phthalate	16600000	POS PARK	ug/kg	0	ug/kg																							
n-Diethylphthalate	20000000	POS PARK	ug/kg	0	ug/kg																							
Hexachlorobenzene	28900	POS PARK	ug/kg	0	ug/kg																							
1,2,4-Trichlorobenzene	215000	Commercial	ug/kg	0	ug/kg																							
2,4-Dichlorophenol	977000	POS PARK	ug/kg	0	ug/kg																							
2,4-Dinitrotoluene	928000	POS PARK	ug/kg	0	ug/kg																							
Dibromochloromethane	1960	Commercial	ug/kg	0	ug/kg																							
Tetrachloroethene	18600	Commercial	ug/kg	0	ug/kg																							
Dimethyl phthalate	2630000	POS PARK	ug/kg	0	ug/kg																							
Dibenzofuran	10800	POS PARK	ug/kg	5	ug/kg																							
sec-Butylbenzene	26597.8811	Commercial	ug/kg	0	ug/kg																							
cis 1,2-Dichloroethene	13600	Commercial	ug/kg	0	ug/kg																							
trans 1,2-Dichloroethene	20700	Commercial	ug/kg	0	ug/kg																							
Perylene	10800000	POS PARK	ug/kg	0	ug/kg																							
1,3-Dichlorobenzene	29900	Commercial	ug/kg	0	ug/kg																							
Carbon Tetrachloride	2870	Commercial	ug/kg	0	ug/kg																							
4-Chloro-3-methylphenol	46100000	POS PARK	ug/kg	0	ug/kg																							
2,6-Dinitrotoluene	468000	POS PARK	ug/kg	0	ug/kg																							
1,1,1,2-Tetrachloroethane	108000	Commercial	ug/kg	0	ug/kg																							
Chloroform	99100	Commercial	ug/kg	0	ug/kg																							
Hexachloroethane	20900000	Commercial	ug/kg	0	ug/kg																							
Benzene VOC	26597.9	Commercial	ug/kg	0	ug/kg																							
1,1,1-Trichloroethane	660000	Commercial	ug/kg	0	ug/kg																							
Barium	5770	POS PARK	mg/kg	0	mg/kg																							
Chloromethane	956000	Commercial	ug/kg	0	ug/kg																							
Chloroethane	90400000	Commercial	ug/kg	0	ug/kg																							

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	AEC18-LF-TP233	AEC18-LF-TP233	AEC18-LF-TP236	AEC18-LF-TP236	AEC18-LF-TP236	AEC18-LF-TP237	AEC18-LF-TP237	AEC18-LF-TP239	AEC18-LF-TP239	AEC18-LF-TP239	AEC18-LF-TP241	AEC18-LF-TP241	AEC18-LF-TP242	AEC18-LF-TP242	AEC18-LF-TP243	AEC18-LF-TP243	AEC18-LF-TP244	AEC18-LF-TP244	AEC18-LF-TP246	AEC18-LF-TP246	AEC18-LF-TP246	AEC18-LF-TP247	AEC18-LF-TP247
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Vinyl Chloride	59.4	Commercial	ug/kg	0	ug/kg																							
Dichloromethane VOC	257000000	Commercial	ug/kg	0	ug/kg																							
Carbon Disulphide	11000000	Commercial	ug/kg	0	ug/kg																							
Bromoform	714000	Commercial	ug/kg	0	ug/kg																							
Bromodichloromethane	1960	Commercial	ug/kg	0	ug/kg																							
1,1-Dichloroethane	263000	Commercial	ug/kg	0	ug/kg																							
1,1-Dichloroethene	24300	Commercial	ug/kg	0	ug/kg																							
Isophorone	26597881.1	Commercial	ug/kg	0	ug/kg																							
1,2-Dichloropropane	3130	Commercial	ug/kg	0	ug/kg																							
1,1,2-Trichloroethane	89100	Commercial	ug/kg	0	ug/kg																							
Trichloroethene	1230	Commercial	ug/kg	0	ug/kg																							
1,1,2,2-Tetrachloroethane	274000000	Commercial	ug/kg	0	ug/kg																							
Diethyl phthalate	89300000	POS PARK	ug/kg	0	ug/kg																							
n-Dibutylphthalate	2630000	POS PARK	ug/kg	0	ug/kg																							
Butylbenzyl phthalate SVOC	254000000	POS PARK	ug/kg	0	ug/kg																							
Carbazole	10800	POS PARK	ug/kg	2	ug/kg																							
1,2,3-Trichlorobenzene	102000	Commercial	ug/kg	0	ug/kg																							
Hexachlorobutadiene	30700	Commercial	ug/kg	0	ug/kg																							
Pentachlorophenol	113000	POS PARK	ug/kg	0	ug/kg																							
2,4,6-Trichlorophenol	1010000	POS PARK	ug/kg	0	ug/kg																							
2-Nitrophenol	7600000000	POS PARK	ug/kg	0	ug/kg																							
2-Methylnaphthalene (SVOC) DEFAULT	193000	Commercial	ug/kg	2	ug/kg																							
2-Chloronaphthalene	370000	Commercial	ug/kg	0	ug/kg																							
o-Xylene	6603100.7	Commercial	ug/kg	0	ug/kg																							
2-Methylphenol	46100000	POS PARK	ug/kg	0	ug/kg																							
1,2-Dichlorobenzene	2020000	Commercial	ug/kg	0	ug/kg																							
2-Chlorophenol	1010000	POS PARK	ug/kg	0	ug/kg																							
1,2,4-Trimethylbenzene	39400	Commercial	ug/kg	5	ug/kg																							
2,4,5-Trichlorophenol	1010000	POS PARK	ug/kg	0	ug/kg																							
Isopropylbenzene	1300000	Commercial	ug/kg	0	ug/kg																							
Nitrobenzene	26597881.1	Commercial	ug/kg	0	ug/kg																							
4-Isopropyltoluene	1300000	Commercial	ug/kg	0	ug/kg																							
m & p Xylene	5923262.7	Commercial	ug/kg	0	ug/kg																							
Aro >C8-C9	7220	POS PARK	mg/kg	0	mg/kg																							
Aro >C9-C10	7220	POS PARK	mg/kg	0	mg/kg																							
Tributyltin SUBCON I2	42400000	POS PARK	ug/kg	0	ug/kg																							
Atrazine SUBCON Alcontrol	379000000	POS Maintenance	ug/kg	0	ug/kg																							
Aldrin SUBCON Alcontrol	7800000	POS PARK	ug/kg	0	ug/kg																							
alpha-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	46500000	POS PARK	ug/kg	0	ug/kg																							
beta-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	13300000	POS PARK	ug/kg	0	ug/kg																							
Endosulphan II	1960000000	POS Maintenance	ug/kg	0	ug/kg																							
Dieldrin SUBCON Alcontrol	12900000	POS PARK	ug/kg	0	ug/kg																							
Dichlorvos	26000000	POS PARK	ug/kg	0	ug/kg																							
Endosulphan I	1950000000	POS Maintenance	ug/kg	0	ug/kg																							
Aro >C35-C44	7820	POS PARK	mg/kg	0	mg/kg																							
Ali >C35-C44	455000	POS PARK	mg/kg	0	mg/kg																							
Anthracene SVOC	149000000	POS PARK	ug/kg	0	ug/kg																							
Pyrene SVOC	15100000	POS PARK	ug/kg	0	ug/kg																							
Benzo(ghi)perylene SVOC	612000	POS Maintenance	ug/kg	0	ug/kg																							
Indeno(1,2,3-cd)pyrene SVOC	44000	POS Maintenance	ug/kg	1	ug/kg																							
Benzo(b)fluoranthene SVOC	13200	POS PARK	ug/kg	7	ug/kg																							
Fluoranthene SVOC	6300000	POS PARK	ug/kg	0	ug/kg																							

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	AEC18-LF-TP233	AEC18-LF-TP233	AEC18-LF-TP236	AEC18-LF-TP236	AEC18-LF-TP236	AEC18-LF-TP237	AEC18-LF-TP237	AEC18-LF-TP239	AEC18-LF-TP239	AEC18-LF-TP239	AEC18-LF-TP241	AEC18-LF-TP241	AEC18-LF-TP242	AEC18-LF-TP242	AEC18-LF-TP243	AEC18-LF-TP243	AEC18-LF-TP244	AEC18-LF-TP244	AEC18-LF-TP246	AEC18-LF-TP246	AEC18-LF-TP246	AEC18-LF-TP247	AEC18-LF-TP247	
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Benzo(k)fluoranthene SVOC	114000	POS Maintenance	ug/kg	0	ug/kg		286.0	485.0	89.3			342.0	115.0	240.0	496.0	95.2	306.0		137.0	90.8		4850.0	127.0	93.0	26.0	197.0	1220.0	<14	476.0
Acenaphthylene SVOC	28900000	POS PARK	ug/kg	0	ug/kg		33.9	31.5	<12			219.0	16.7	49.8	<200	<100	<200		<12	19.9		915.0	<12	14.2	<12	<100	<100	<12	46.8
Chrysene SVOC	91000	POS Maintenance	ug/kg	1	ug/kg		624.0	925.0	191.0			427.0	169.0	418.0	649.0	146.0	675.0		221.0	171.0		8180.0	228.0	157.0	64.8	209.0	2300.0	14.9	831.0
Benzo(a)pyrene SVOC	10800	POS PARK	ug/kg	8	ug/kg		556.0	756.0	126.0			400.0	237.0	461.0	519.0	168.0	720.0		180.0	224.0		8470.0	234.0	167.0	79.8	197.0	2080.0	<15	799.0
Dibenzo(ah)anthracene SVOC	1150	POS PARK	ug/kg	10	ug/kg		89.2	172.0	<23			<100	30.9	66.1	<200	<100	<200		<23	38.2		1270.0	30.9	<23	<23	<100	<100	<23	86.9
Benzo(a)anthracene SVOC	48800	POS PARK	ug/kg	2	ug/kg		579.0	722.0	150.0			461.0	181.0	372.0	661.0	179.0	750.0		205.0	177.0		6640.0	246.0	145.0	83.4	232.0	2800.0	17.7	974.0
Acenaphthene SVOC	28900000	POS PARK	ug/kg	0	ug/kg		34.0	<8	107.0			741.0	10.9	42.4	<200	<100	<200		182.0	10.1		565.0	52.9	19.2	18.1	162.0	315.0	<8	100.0
Phenanthrene SVOC	6170000	POS PARK	ug/kg	0	ug/kg		741.0	95.9	447.0			787.0	115.0	386.0	602.0	179.0	1190.0		976.0	112.0		11000.0	414.0	124.0	170.0	371.0	3390.0	<15	11100.0
Fluorene SVOC	19600000	POS PARK	ug/kg	0	ug/kg		103.0	11.6	108.0			1270.0	<10	42.6	<200	<100	<200		188.0	15.5		1370.0	49.3	14.5	15.5	128.0	353.0	<10	95.1
Naphthalene SVOC	193000	Commercial	ug/kg	1	ug/kg		20.0	<9	120.0			32900.0	<9	24.0	<200	<100	354.0		403.0	12.0		<260	<9	<9	<9	<100	<100	<9	<13
Xylenols	9180	POS PARK	mg/kg	0	mg/kg		<0.015	<0.015	<0.015	0.1		<0.015	0.4	<0.015	<0.015	<0.015	<0.015	0.0	<0.015	0.2	<0.015	0.0	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Cresols	46100	POS PARK	mg/kg	0	mg/kg		<0.01	<0.01	<0.01	0.0		<0.01	0.1	<0.01	<0.01	0.0	<0.01	0.2	<0.01	0.1	<0.01	<0.01	0.0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Tributyltin	42400	POS PARK	mg/kg	0	mg/kg														0.1									<0.02	
Methyl tert-butyl ether (MTBE)	7480000	Commercial	ug/kg	0	ug/kg		<10	<10	<10			<100			<200	<100	<100					<200	<10	<10	<10	<10	<10	<10	<10
Aromatics >C6-7	27000000	Commercial	ug/kg	0	ug/kg		<10	<10	<10			<200			<10	<10						<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >C7-8	56293712.8	Commercial	ug/kg	0	ug/kg		<10	<10	<10			<200			<10	<10						<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >C8-10	3460000	Commercial	ug/kg	0	ug/kg		<10	<10	1790.0			117000.0			382.0	700.0						<10	<10	117.0	45.2	189.0		181.0	
Aromatics >C10-12	9240000	POS PARK	ug/kg	0	ug/kg		<10	10.1	2370.0			202000.0			797.0	1800.0						<10	80.0	76.6	440.0		854.0		
Aromatics >C12-16	10200000	POS PARK	ug/kg	0	ug/kg		<100	<100	26200.0			167000.0			5380.0	7230.0						23100.0	<100	2560.0	27800.0		5380.0		
Aromatics >C16-21	7630000	POS PARK	ug/kg	0	ug/kg		3490.0	4560.0	206000.0			53300.0			71100.0	56900.0						192000.0	4930.0	9490.0	186000.0		28700.0		
Aromatics >C21-35	7820000	POS PARK	ug/kg	1	ug/kg		18500.0	22600.0	634000.0			192000.0			293000.0	260000.0						529000.0	13800.0	32800.0	366000.0		69300.0		
Aromatics >C35-44	7820000	POS PARK	ug/kg	0	ug/kg		1320.0	9440.0	114000.0			55300.0			103000.0	57500.0						125000.0	5910.0	12300.0	111000.0		21100.0		
Aliphatics >C5-6	3190000	Commercial	ug/kg	0	ug/kg		<10	<10	22.7			<200			14.2	30.2						<10	17.4	11.6	<10		23.0		
Aliphatics >C6-8	7780000	Commercial	ug/kg	0	ug/kg		<10	15.7	202.0			639.0			70.8	147.0						<10	85.8	40.6	69.3		110.0		
Aliphatics >C8-10	2000000	Commercial	ug/kg	1	ug/kg		<10	12.3	2680.0			176000.0			572.0	1050.0						<10	175.0	67.3	282.0		271.0		
Aliphatics >C10-12	9690000	Commercial	ug/kg	0	ug/kg		<10	14.6	3560.0			303000.0			1200.0	2710.0						<10	121.0	115.0	659.0		1280.0		
Aliphatics >C12-16	24700000	POS PARK	ug/kg	0	ug/kg		2810.0	<100	85000.0			51500.0			14200.0	27300.0						30400.0	405.0	<100	57500.0		16600.0		
Aliphatics >C16-21	45500000	POS PARK	ug/kg	0	ug/kg		6730.0	3800.0	340000.0			81500.0			76600.0	207000.0						151000.0	1190.0	1190.0	154000.0		42700.0		
Aliphatics >C21-35	45500000	POS PARK	ug/kg	0	ug/kg		25800.0	23400.0	1660000.0			389000.0			638000.0	740000.0						482000.0	6800.0	19800.0	196000.0		52600.0		
Aliphatics >C35-44	45500000	POS PARK	ug/kg	0	ug/kg		6490.0	2710.0	140000.0			96800.0			198000.0	102000.0						85000.0	788.0	8810.0	67100.0		6990.0		
Trivalent Chromium	33000	POS PARK	mg/kg	0	mg/kg							<0.3																	
Molybdenum	2890	POS PARK	mg/kg	0	mg/kg							0.6																	
4-Nitroaniline	10800	POS PARK	ug/kg	0	ug/kg							<100			<200	<100	<200					<100			<100	<100		<100	
Azobenzene	10800	POS PARK	ug/kg	0	ug/kg							<100			<200	<100	<200					<100			<100	<100		<100	
4-Chloroaniline	10800000	POS PARK	ug/kg	0	ug/kg							<100			<200	<100	<200					<100			<100	<100		<100	
2-Nitroaniline	10800	POS PARK	ug/kg	0	ug/kg							<100			<200	<100	<200					<100			<100	<100		<100	

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	AEC18-LF-TP247	AEC18-LF-TP248	AEC18-LF-TP248	AEC18-LF-TP249	AEC18-LF-TP249	AEC18-LF-TP250	AEC18-LF-TP250	AEC18-LF-TP250	AEC18-LF-TP251	AEC18-LF-TP251	AEC18-LF-TP252	AEC18-LF-TP252	AEC18-LF-TP253	AEC18-LF-TP256	AEC18-LF-TP256	AEC18-LF-TP257	AEC18-LF-TP257	AEC18-LF-TP257	AEC18-LF-TP258	AEC18-LF-TP258	AEC18-LF-TP259	AEC18-LF-TP259	AEC18-LF-TP260	
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Ethylbenzene	5705.5	Commercial	mg/kg	0	mg/kg																								
Toluene	56293.7	Commercial	mg/kg	0	mg/kg																								
Anthracene	149000	POS PARK	mg/kg	0	mg/kg																								
Pyrene	15100	POS PARK	mg/kg	0	mg/kg																								
Xylene	6603.1	Commercial	mg/kg	0	mg/kg																								
Benzo (g,h,i) perylene	612	POS Maintenance	mg/kg	0	mg/kg																								
Indeno(1,2,3-cd)pyrene	44	POS Maintenance	mg/kg	0	mg/kg																								
Benzo(b)fluoranthene	13.2	POS PARK	mg/kg	4	mg/kg																								
Fluoranthene	6300	POS PARK	mg/kg	0	mg/kg																								
Benzo(k)fluoranthene	114	POS Maintenance	mg/kg	0	mg/kg																								
Acenaphthylene	28900	POS PARK	mg/kg	0	mg/kg																								
Chrysene	91	POS Maintenance	mg/kg	0	mg/kg																								
Benzo(a)pyrene	10.8	POS PARK	mg/kg	4	mg/kg																								
Dibenz-a-h-anthracene	1.15	POS PARK	mg/kg	5	mg/kg																								
Benzo(a)anthracene	48.8	POS PARK	mg/kg	0	mg/kg																								
Cyanide	24	POS PARK	mg/kg	5	mg/kg	<1	9.8	<1	<1	<1	<1	2.3	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Benzene	26.60	Commercial	mg/kg	0	mg/kg																								
Lead	1300	POS PARK	mg/kg	13	mg/kg	62.5	106.0	206.0	25.9	99.4	24.4	129.0	2000.0	18.5	0.0	23.4	57.1	6.1	44.5	67.2	59.8	46.5	23.4	161.0	187.0	78.2	40.0	33.7	85.9
Mercury	244	POS PARK	mg/kg	0	mg/kg	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	0.5	<0.0001	<0.14	<0.0001	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	0.5	<0.14	<0.14	<0.14	<0.14	<0.14
Nickel	804	POS PARK	mg/kg	8	mg/kg	37.4	295.0	38.2	13.9	24.0	53.4	23.6	0.1	19.3	0.3	21.4	30.8	6.1	12.5	26.9	19.4	9.3	22.0	22.4	27.6	18.1	19.9	17.2	32.2
Antimony	3290	POS PARK	mg/kg	0	mg/kg	0.6	10.8	<0.6	<0.6	1.3	<0.6	9.7	0.2	<0.6	0.3	<0.6	<0.6	<0.6	<0.6	0.8	2.5	<0.6	<0.6	16.5	1.0	<0.6	<0.6	<0.6	0.9
Arsenic	168	POS PARK	mg/kg	0	mg/kg	13.2	11.7	19.2	7.9	27.7	16.1	19.3	0.0	12.7	0.1	12.7	14.3	7.5	10.0	13.5	8.8	6.7	15.8	21.2	20.4	22.7	10.7	10.1	26.9
Beryllium	11.7	Commercial	mg/kg	1	mg/kg	1.2	0.7	0.8	2.7	1.1	2.1	0.8	<0.001	0.9	<0.001	0.9	1.1	0.4	0.6	1.1	0.7	0.3	1.1	0.6	0.8	2.8	0.8	0.9	1.3
Boron	46200	POS PARK	mg/kg	0	mg/kg	1.0	3.9	1.7	1.3	2.1	31.7	22.0	22.8	<1	2.4	<1	1.2	1.0	<1	<1	1.8	<1	<1	4.2	3.8	2.1	<1	<1	1.9
Cadmium	190	Commercial	mg/kg	0	mg/kg	0.3	1.1	<0.02	0.3	0.5	0.6	1.0	<0.0008	0.3	0.0	0.1	0.3	0.1	0.1	0.3	1.2	0.1	0.1	0.8	0.5	0.2	0.8	0.2	0.3
Chromium	8570	Commercial	mg/kg	1	mg/kg	18.2	149.0	13.7	13.8	26.9	32.3	14.1	0.1	30.8	0.1	17.4	15.5	7.8	17.1	20.6	17.1	<0.9	28.3	13.5	9.0	11.5	15.4	15.5	24.5
Copper	44400	POS PARK	mg/kg	2	mg/kg	23.1	97.2	19.8	19.3	30.8	30.1	82.1	0.1	16.7	0.2	15.5	29.4	4.4	19.4	25.7	25.0	90.2	31.8	52.2	33.7	23.8	24.8	13.8	29.2
Vanadium	2820	POS Maintenance	mg/kg	0	mg/kg	44.0	29.9	36.9	40.7	36.6	57.5	17.9	0.0	61.7	0.2	43.9	44.3	14.4	57.0	41.6	27.7	89.9	64.3	23.3	42.4	31.9	44.5	35.4	64.2
Zinc	173000	POS PARK	mg/kg	0	mg/kg	147.0	447.0	142.0	73.1	177.0	154.0	575.0	2990.0	44.4	0.4	51.5	129.0	28.5	63.6	131.0	200.0	106.0	79.9	410.0	126.0	104.0	72.4	62.0	131.0
Selenium	1850	POS PARK	mg/kg	0	mg/kg	<1	<1	<1	<1	<1	1.2	<1	<0.01	<1	<0.01	<1	<1	<1	<1	1.1	<1	<1	<1	<1	2.8	1.4	<1	<1	<1
Acenaphthene	28900	POS PARK	mg/kg	0	mg/kg																								
Phenanthrene	6170	POS PARK	mg/kg	0	mg/kg																								
Fluorene	19600	POS PARK	mg/kg	0	mg/kg																								
Naphthalene	193	Commercial	mg/kg	0	mg/kg																								
Phenol (Monohydric)	7600	POS Maintenance	mg/kg	0	mg/kg	<0.035	1.6	0.1	<0.035	<0.035	<0.035	<0.035	0.3	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035
Aromatics >C7-8	56293.7	Commercial	mg/kg	0	mg/kg																								
Aromatics >C8-10	3460	Commercial	mg/kg	0	mg/kg																								
Aromatics >C10-12	9240	POS PARK	mg/kg	0	mg/kg																								
Aromatics >C12-16	10200	POS PARK	mg/kg	0	mg/kg																								
Aromatics >C16-21	7630	POS PARK	mg/kg	0	mg/kg																								
Aromatics >C21-35	7820	POS PARK	mg/kg	0	mg/kg																								
Aliphatics >C5-6	3190	Commercial	mg/kg	0	mg/kg																								
Aliphatics >C6-8	7780	Commercial	mg/kg	0	mg/kg																								
Aliphatics >C8-10	2000	Commercial	mg/kg	0	mg/kg																								
Aliphatics >C10-12	9690	Commercial	mg/kg	0	mg/kg																								
Aliphatics >C12-16	24700	POS PARK	mg/kg	0	mg/kg																								
Aliphatics >C16-21	455000	POS PARK	mg/kg	0	mg/kg																								
Aliphatics >C21-35	455000	POS PARK	mg/kg	0	mg/kg																								
Aromatics >C5-7	27	Commercial	mg/kg	0	mg/kg																								
4-Nitroaniline	10.8	POS PARK	mg/kg	0	mg/kg																								
4-Nitrophenol	7600	POS PARK	mg/kg	0	mg/kg																								
Styrene	3170	Commercial	mg/kg	0	mg/kg																								
Azobenzene	10.8	POS PARK	mg/kg	0	mg/kg																								

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	AEC18-LF-TP247	AEC18-LF-TP248	AEC18-LF-TP248	AEC18-LF-TP249	AEC18-LF-TP249	AEC18-LF-TP250	AEC18-LF-TP250	AEC18-LF-TP250	AEC18-LF-TP251	AEC18-LF-TP251	AEC18-LF-TP252	AEC18-LF-TP252	AEC18-LF-TP253	AEC18-LF-TP256	AEC18-LF-TP256	AEC18-LF-TP256	AEC18-LF-TP257	AEC18-LF-TP257	AEC18-LF-TP257	AEC18-LF-TP258	AEC18-LF-TP258	AEC18-LF-TP259	AEC18-LF-TP259	AEC18-LF-TP260
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
n-propylbenzene	3860	Commercial	mg/kg	0	mg/kg																								
n-Butylbenzene	26.598	Commercial	mg/kg	0	mg/kg																								
2,4-Dimethylphenol	9180	POS PARK	mg/kg	0	mg/kg																								
3/4 Methylphenol	46000	POS PARK	mg/kg	0	mg/kg																								
1,4-Dichlorobenzene	4220	Commercial	mg/kg	0	mg/kg																								
1,2-Dichloroethane	0.671	Commercial	mg/kg	0	mg/kg																								
1,3,5-Trimethylbenzene	39.4	Commercial	mg/kg	0	mg/kg																								
Bromobenzene	91.5	Commercial	mg/kg	0	mg/kg																								
Chlorobenzene	55.6	Commercial	mg/kg	0	mg/kg																								
Phenol	7600	POS PARK	mg/kg	0	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	0.0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bis(2-chloroethoxy)methane	0.956	Commercial	mg/kg	0	mg/kg																								
Bis(2-ethylhexyl)phthalate	16600	POS PARK	mg/kg	0	mg/kg																								
Di-N-Octyl Phthalate	20000	POS PARK	mg/kg	0	mg/kg																								
Hexachlorobenzene (HCB)	28.9	POS PARK	mg/kg	0	mg/kg																								
1,2,4-Trichlorobenzene	215	Commercial	mg/kg	0	mg/kg																								
2,4-Dichlorophenol	977	POS PARK	mg/kg	0	mg/kg																								
2,4-Dinitrotoluene	928	POS PARK	mg/kg	0	mg/kg																								
Dibromochloromethane	1.96	Commercial	mg/kg	0	mg/kg																								
Tetrachloroethene	18.6	Commercial	mg/kg	0	mg/kg																								
Dimethylphthalate	2630	POS PARK	mg/kg	0	mg/kg																								
Dibenzofuran	10.8	POS PARK	mg/kg	0	mg/kg																								
Sec-Butylbenzene	26.6	Commercial	mg/kg	0	mg/kg																								
cis-1,2-Dichloroethene	13.6	Commercial	mg/kg	0	mg/kg																								
trans-1,2-Dichloroethene	20.7	Commercial	mg/kg	0	mg/kg																								
Methyl tert-butyl ether (MTBE)	7480	Commercial	mg/kg	0	mg/kg																								
1,3-Dichlorobenzene	29.9	Commercial	mg/kg	0	mg/kg																								
Tetrachloromethane (Carbon Tetra Chloride)	2.87	Commercial	mg/kg	0	mg/kg																								
2,3,4,6-Tetrachlorophenol	1000	POS PARK	mg/kg	0	mg/kg																								
4-Chloro-3-Methylphenol	46100	POS PARK	mg/kg	0	mg/kg																								
2,6-Dinitrotoluene	468	POS PARK	mg/kg	0	mg/kg																								
1,1,1,2-Tetrachloroethane	108	Commercial	mg/kg	0	mg/kg																								
Chloroform	99.1	Commercial	mg/kg	0	mg/kg																								
1,1,1-Trichloroethane	660	Commercial	mg/kg	0	mg/kg																								
Chloroethene	0.0594	Commercial	mg/kg	0	mg/kg																								
Tribromomethane	714	Commercial	mg/kg	0	mg/kg																								
Bromodichloromethane	1.96	Commercial	mg/kg	0	mg/kg																								
1,1-Dichloroethane	263	Commercial	mg/kg	0	mg/kg																								
1,1-Dichloroethene	24.3	Commercial	mg/kg	0	mg/kg																								
1,2-Dichloropropane	3.13	Commercial	mg/kg	0	mg/kg																								
1,1,2-Trichloroethane	89.1	Commercial	mg/kg	0	mg/kg																								
Trichloroethene	1.23	Commercial	mg/kg	0	mg/kg																								
Diethylphthalate	89300	POS PARK	mg/kg	0	mg/kg																								
Di-N-Butyl Phthalate	2630	POS PARK	mg/kg	0	mg/kg																								
Butylbenzylphthalate	254000	POS PARK	mg/kg	0	mg/kg																								
Carbazole	10.8	POS PARK	mg/kg	0	mg/kg																								
1,2,3 Trichlorobenzene	102	Commercial	mg/kg	0	mg/kg																								
Hexachlorobutadiene (HCBD)	30.7	Commercial	mg/kg	0	mg/kg																								
Pentachlorophenol (PCP)	113	POS PARK	mg/kg	0	mg/kg																								
2,4,6-Trichlorophenol	1010	POS PARK	mg/kg	0	mg/kg																								
2-Nitroaniline	10.8	POS PARK	mg/kg	0	mg/kg																								
2-Methylnaphthalene	193	Commercial	mg/kg	0	mg/kg																								
2-Chloronaphthalene	370	Commercial	mg/kg	0	mg/kg																								
2,3,5,6-Tetrachlorophenol	1000	POS PARK	mg/kg	0	mg/kg																								

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	AEC18-LF-TP247	AEC18-LF-TP248	AEC18-LF-TP248	AEC18-LF-TP249	AEC18-LF-TP249	AEC18-LF-TP250	AEC18-LF-TP250	AEC18-LF-TP250	AEC18-LF-TP251	AEC18-LF-TP251	AEC18-LF-TP252	AEC18-LF-TP252	AEC18-LF-TP253	AEC18-LF-TP256	AEC18-LF-TP256	AEC18-LF-TP256	AEC18-LF-TP257	AEC18-LF-TP257	AEC18-LF-TP257	AEC18-LF-TP258	AEC18-LF-TP258	AEC18-LF-TP259	AEC18-LF-TP259	AEC18-LF-TP260
					Sample Top	Sample Ref	Sample Type	4.10	1.50	4.50	1.30	3.70	0.90	3.00	4.10	1.30	4.00	0.30	4.10	0.40	0.20	2.60	4.40	0.20	2.00	4.40	0.40	1.50	0.30
O-Xylene	6603.1	Commercial	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
2-Methylphenol	46100	POS PARK	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
1,2-Dichlorobenzene	2020	Commercial	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
2-Chlorophenol	1010	POS PARK	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
1,2,4-Trimethylbenzene	39.4	Commercial	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
2,4,5-Trichlorophenol	1010	POS PARK	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Isopropylbenzene	1300	Commercial	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
4-Isopropyltoluene	1300	Commercial	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
m,p xylenes	5923.3	Commercial	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Chromium - Hexavalent	220	POS PARK	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Cyanide Free	168	Commercial	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Complex Cyanide	3460	POS PARK	mg/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
4-Nitrophenol	7600000	POS PARK	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Ethylbenzene	5705504.8	Commercial	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Styrene	3170000	Commercial	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
n-Propylbenzene	3860000	Commercial	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
n-Butylbenzene	26597.9	Commercial	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
2,4-Dimethylphenol	9180000	POS PARK	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
4-Methylphenol	46000000	POS PARK	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
1,4-Dichlorobenzene	4220000	Commercial	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
1,2-Dichloroethane	671	Commercial	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
1,3,5-Trimethylbenzene	39400	Commercial	ug/kg	3	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Bromobenzene	91500	Commercial	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Toluene VOC	56293712.79	Commercial	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Chlorobenzene	55600	Commercial	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Phenol SVOC	7600000	POS PARK	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Bis(2-chloroethoxy)methane	956	Commercial	ug/kg	1	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Bis(2-ethylhexyl)phthalate	16600000	POS PARK	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
n-Diethylphthalate	20000000	POS PARK	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Hexachlorobenzene	28900	POS PARK	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
1,2,4-Trichlorobenzene	215000	Commercial	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
2,4-Dichlorophenol	977000	POS PARK	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
2,4-Dinitrotoluene	928000	POS PARK	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Dibromochloromethane	1960	Commercial	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Tetrachloroethene	18600	Commercial	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Dimethyl phthalate	2630000	POS PARK	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Dibenzofuran	10800	POS PARK	ug/kg	5	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
sec-Butylbenzene	26597.8811	Commercial	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
cis 1,2-Dichloroethene	13600	Commercial	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
trans 1,2-Dichloroethene	20700	Commercial	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Perylene	10800000	POS PARK	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
1,3-Dichlorobenzene	29900	Commercial	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Carbon Tetrachloride	2870	Commercial	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
4-Chloro-3-methylphenol	46100000	POS PARK	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
2,6-Dinitrotoluene	468000	POS PARK	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
1,1,1,2-Tetrachloroethane	108000	Commercial	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Chloroform	99100	Commercial	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Hexachloroethane	20900000	Commercial	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Benzene VOC	26597.9	Commercial	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
1,1,1-Trichloroethane	660000	Commercial	ug/kg	0	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Barium	5770	POS PARK	mg/kg	0	ES	ES	ES	ES																					

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	AEC18-LF-TP247	AEC18-LF-TP248	AEC18-LF-TP248	AEC18-LF-TP249	AEC18-LF-TP249	AEC18-LF-TP250	AEC18-LF-TP250	AEC18-LF-TP250	AEC18-LF-TP251	AEC18-LF-TP251	AEC18-LF-TP252	AEC18-LF-TP252	AEC18-LF-TP253	AEC18-LF-TP256	AEC18-LF-TP256	AEC18-LF-TP256	AEC18-LF-TP257	AEC18-LF-TP257	AEC18-LF-TP257	AEC18-LF-TP258	AEC18-LF-TP258	AEC18-LF-TP259	AEC18-LF-TP259	AEC18-LF-TP260
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Vinyl Chloride	59.4	Commercial	ug/kg	0	ug/kg	<6	<6							<6		<6						<6	<120					<6	
Dichloromethane VOC	257000000	Commercial	ug/kg	0	ug/kg	<10	18.4							<10		<10						<10	<200					<10	
Carbon Disulphide	11000000	Commercial	ug/kg	0	ug/kg	<7	14.6							<7		<7						<7	<140					<7	
Bromoform	714000	Commercial	ug/kg	0	ug/kg	<10	<10							<10		<10						<10	<200					<10	
Bromodichloromethane	1960	Commercial	ug/kg	0	ug/kg	<7	<7							<7		<7						<7	<140					<7	
1,1-Dichloroethane	263000	Commercial	ug/kg	0	ug/kg	<8	<8							<8		<8						<8	<160					<8	
1,1-Dichloroethene	24300	Commercial	ug/kg	0	ug/kg	<10	<10							<10		<10						<10	<200					<10	
Isophorone	26597881.1	Commercial	ug/kg	0	ug/kg	<100	<100							<100		<200						<100	<100					<100	
1,2-Dichloropropane	3130	Commercial	ug/kg	0	ug/kg	<10	<10							<10		<10						<10	<200					<10	
1,1,2-Trichloroethane	89100	Commercial	ug/kg	0	ug/kg	<10	<10							<10		<10						<10	<200					<10	
Trichloroethene	1230	Commercial	ug/kg	0	ug/kg	<9	<9							<9		<9						<9	<180					<9	
1,1,2,2-Tetrachloroethane	274000000	Commercial	ug/kg	0	ug/kg	<10	<10							<10		<10						<10	<200					<10	
Diethyl phthalate	89300000	POS PARK	ug/kg	0	ug/kg	<100	<100							<100		<200						<100	<100					<100	
n-Dibutylphthalate	2630000	POS PARK	ug/kg	0	ug/kg	<100	2200.0							346.0		<200						<100	<100					<100	
Butylbenzyl phthalate SVOC	254000000	POS PARK	ug/kg	0	ug/kg	121.0	8290.0							1810.0		<200						<100	<100					<100	
Carbazole	10800	POS PARK	ug/kg	2	ug/kg	<100	258.0							186.0		<200						<100	<100					<100	
1,2,3-Trichlorobenzene	102000	Commercial	ug/kg	0	ug/kg	<20	<20							<20		<20						<20	<400					<20	
Hexachlorobutadiene	30700	Commercial	ug/kg	0	ug/kg	<100	<100							<100		<20						<100	<100					<100	
Pentachlorophenol	113000	POS PARK	ug/kg	0	ug/kg	<100	<100							<100		<200						<100	<100					<100	
2,4,6-Trichlorophenol	1010000	POS PARK	ug/kg	0	ug/kg	<100	<100							<100		<200						<100	<100					<100	
2-Nitrophenol	7600000000	POS PARK	ug/kg	0	ug/kg	<100	<100							<100		<200						<100	<100					<100	
2-Methylnaphthalene (SVOC) DEFAULT	193000	Commercial	ug/kg	2	ug/kg	<100	1750.0							146.0		<200						<100	<100					<100	
2-Chloronaphthalene	370000	Commercial	ug/kg	0	ug/kg	<100	<100							<100		<200						<100	<100					<100	
o-Xylene	6603100.7	Commercial	ug/kg	0	ug/kg	<10	43.9	<10	<10	<100		<200	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<200		<10	<10	<10	<10	
2-Methylphenol	46100000	POS PARK	ug/kg	0	ug/kg	<100	<100							<100		<200						<100	<100					<100	
1,2-Dichlorobenzene	2020000	Commercial	ug/kg	0	ug/kg	<10	61.3							<10		<10						<10	<100					<10	
2-Chlorophenol	1010000	POS PARK	ug/kg	0	ug/kg	<100	<100							<100		<200						<100	<100					<100	
1,2,4-Trimethylbenzene	39400	Commercial	ug/kg	5	ug/kg	<9	446.0							<9		<9						<9	<180					<9	
2,4,5-Trichlorophenol	1010000	POS PARK	ug/kg	0	ug/kg	<100	<100							<100		<200						<100	<100					<100	
Isopropylbenzene	1300000	Commercial	ug/kg	0	ug/kg	<5	7.7							<5		<5						<5	<100					<5	
Nitrobenzene	26597881.1	Commercial	ug/kg	0	ug/kg	<100	<100							<100		<200						<100	<100					<100	
4-Isopropyltoluene	1300000	Commercial	ug/kg	0	ug/kg	<10	52.8							<10		<10						<10	<200					<10	
m & p Xylene	5923262.7	Commercial	ug/kg	0	ug/kg	<10	60.6	<10	<10	<100		<200	14.6	<10	<10	<10	<10	<10	<10	<10	<10	<10	<200		<10	<10	<10	<10	
Aro >C8-C9	7220	POS PARK	mg/kg	0	mg/kg																								
Aro >C9-C10	7220	POS PARK	mg/kg	0	mg/kg																								
Tributyltin SUBCON I2	42400000	POS PARK	ug/kg	0	ug/kg																								
Atrazine SUBCON Alcontrol	379000000	POS Maintenance	ug/kg	0	ug/kg																								
Aldrin SUBCON Alcontrol	7800000	POS PARK	ug/kg	0	ug/kg																	<500	<50					<1000	
alpha-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	46500000	POS PARK	ug/kg	0	ug/kg																	<500	<50					<1000	
beta-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	13300000	POS PARK	ug/kg	0	ug/kg																	<500	<50					<1000	
Endosulphan II	1960000000	POS Maintenance	ug/kg	0	ug/kg																	<500	<50					<1000	
Dieldrin SUBCON Alcontrol	12900000	POS PARK	ug/kg	0	ug/kg																	<500	<50					<1000	
Dichlorvos	26000000	POS PARK	ug/kg	0	ug/kg																	<500	<50					<1000	
Endosulphan I	1950000000	POS Maintenance	ug/kg	0	ug/kg																	<500	<50					<1000	
Aro >C35-C44	7820	POS PARK	mg/kg	0	mg/kg																								
Ali >C35-C44	455000	POS PARK	mg/kg	0	mg/kg																								
Anthracene SVOC	149000000	POS PARK	ug/kg	0	ug/kg	<100	868.0	4820.0	<80	930.0		36.7	217.0	<80	334.0	319.0	<200	<16		57.6	993.0	389.0	<100	<100		2650.0	401.0	<100	
Pyrene SVOC	15100000	POS PARK	ug/kg	0	ug/kg	175.0	1780.0	13400.0	421.0	3420.0		290.0	1070.0	<75	1430.0	1630.0	1350.0	47.7		734.0	4180.0	1760.0	<100	264.0		20000.0	1450.0	312.0	
Benzo(ghi)perylene SVOC	612000	POS Maintenance	ug/kg	0	ug/kg	<100	797.0	3060.0	157.0	813.0		93.9	291.0	<120	798.0	457.0	667.0	<24		365.0	1270.0	365.0	<100	<100		6600.0	416.0	188.0	
Indeno(1,2,3-cd)pyrene SVOC	44000	POS Maintenance	ug/kg	1	ug/kg	<100	712.0	3630.0	104.0	623.0		74.4	201.0	<90	531.0	462.0	624.0	<18		305.0	1110.0	338.0	<100	<100		5030.0	294.0	159.0	
Benzo(b)fluoranthene SVOC	13200	POS PARK	ug/kg	7	ug/kg	<100	878.0	7290.0	355.0	1840.0		102.0	445.0	<75	1080.0	1120.0	784.0	23.7		601.0	2100.0	904.0	<100	<100		11100.0	555.0	245.0	
Fluoranthene SVOC	6300000	POS PARK	ug/kg	0	ug/kg	210.0	2000.0																						

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	AEC18-LF-TP247	AEC18-LF-TP248	AEC18-LF-TP248	AEC18-LF-TP249	AEC18-LF-TP249	AEC18-LF-TP250	AEC18-LF-TP250	AEC18-LF-TP250	AEC18-LF-TP251	AEC18-LF-TP251	AEC18-LF-TP252	AEC18-LF-TP252	AEC18-LF-TP253	AEC18-LF-TP256	AEC18-LF-TP256	AEC18-LF-TP256	AEC18-LF-TP257	AEC18-LF-TP257	AEC18-LF-TP257	AEC18-LF-TP258	AEC18-LF-TP258	AEC18-LF-TP259	AEC18-LF-TP259	AEC18-LF-TP260	
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Benzo(k)fluoranthene SVOC	114000	POS Maintenance	ug/kg	0	ug/kg	<100	247.0	2200.0	128.0	753.0		46.3	218.0	<70	452.0	420.0	595.0	<14		190.0	655.0	338.0	<100	120.0		5240.0	258.0	127.0		
Acenaphthylene SVOC	28900000	POS PARK	ug/kg	0	ug/kg	<100	199.0	701.0	<60	115.0		<12	46.8	<60	<100	<120	<120	<12		40.9	<60	<60	<100	<100		381.0	<120	<100		
Chrysene SVOC	91000	POS Maintenance	ug/kg	1	ug/kg	97.1	753.0	6090.0	246.0	1470.0		126.0	510.0	<50	639.0	671.0	913.0	15.9		405.0	1820.0	700.0	<100	144.0		9120.0	637.0	188.0		
Benzo(a)pyrene SVOC	10800	POS PARK	ug/kg	8	ug/kg	<100	927.0	5750.0	220.0	1430.0		127.0	504.0	<75	756.0	787.0	854.0	20.4		531.0	2050.0	538.0	<100	120.0		11500.0	648.0	278.0		
Dibenzo(ah)anthracene SVOC	1150	POS PARK	ug/kg	10	ug/kg	<100	<100	725.0	<115	134.0		<23	71.7	<115	<100	<230	<200	<23		73.9	225.0	<115	<100	<100		1580.0	<230	<100		
Benzo(a)anthracene SVOC	48800	POS PARK	ug/kg	2	ug/kg	101.0	805.0	6930.0	236.0	1510.0		125.0	609.0	<70	746.0	688.0	885.0	<14		453.0	2060.0	668.0	<100	144.0		11200.0	471.0	205.0		
Acenaphthene SVOC	28900000	POS PARK	ug/kg	0	ug/kg	<100	690.0	1860.0	46.0	649.0		24.9	56.8	<40	271.0	122.0	<200	<8		10.2	1130.0	135.0	<100	<100		600.0	118.0	<100		
Phenanthrene SVOC	6170000	POS PARK	ug/kg	0	ug/kg	96.4	2160.0	10000.0	231.0	3090.0		138.0	751.0	<75	947.0	582.0	608.0	22.6		174.0	5680.0	1260.0	<100	132.0		8160.0	1310.0	111.0		
Fluorene SVOC	19600000	POS PARK	ug/kg	0	ug/kg	<100	1100.0	1990.0	<50	690.0		22.0	77.8	<50	241.0	<100	<100	<10		<10	1310.0	151.0	<100	<100		726.0	<100	<100		
Naphthalene SVOC	193000	Commercial	ug/kg	1	ug/kg	<100	480.0	1140.0	<45	162.0		<9	92.6	<45	55.9	<90	<13	<9		13.9	175.0	<45	<100	<100		<90	<90	<100		
Xylenols	9180	POS PARK	mg/kg	0	mg/kg	<0.015	1.2	0.1	<0.015	<0.015	<0.015	<0.015	0.2	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Cresols	46100	POS PARK	mg/kg	0	mg/kg	0.0	0.4	0.0	<0.01	<0.01	<0.01	<0.01	0.2	<0.01	0.0	<0.01	0.0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Tributyltin	42400	POS PARK	mg/kg	0	mg/kg																<0.02	<0.02							<0.02	
Methyl tert-butyl ether (MTBE)	7480000	Commercial	ug/kg	0	ug/kg	<10	<10		<100		<200			<10		<10	<10			<10		<10	<200					<10		
Aromatics >C6-7	27000000	Commercial	ug/kg	0	ug/kg	<10	<10		<10		<10			<10		<10	<10			<10		<10	<10					<10		
Aromatics >C7-8	56293712.8	Commercial	ug/kg	0	ug/kg	<10	<10		<10		<10			<10		<10	<10			<10		<10	<10					<10		
Aromatics >C8-10	3460000	Commercial	ug/kg	0	ug/kg	49.6	1200.0		49.0		4480.0			536.0		<10	78.0			<10		<10	<10	45.6				<10		
Aromatics >C10-12	9240000	POS PARK	ug/kg	0	ug/kg	41.1	3520.0		77.5		6310.0			491.0		<10	242.0			<10		<10	<10	37.2				<10		
Aromatics >C12-16	10200000	POS PARK	ug/kg	0	ug/kg	1110.0	190000.0		4620.0		6580.0			4210.0		1420.0	<100			163.0		438.0	3000.0					<100		
Aromatics >C16-21	7630000	POS PARK	ug/kg	0	ug/kg	5310.0	461000.0		19700.0		46200.0			62000.0		12100.0	<100			5810.0		2930.0	9540.0					18000.0		
Aromatics >C21-35	7820000	POS PARK	ug/kg	1	ug/kg	14600.0	1450000.0		61600.0		220000.0			273000.0		58500.0	4770.0			46600.0		23600.0	40500.0					78400.0		
Aromatics >C35-44	7820000	POS PARK	ug/kg	0	ug/kg	1850.0	235000.0		25800.0		67000.0			69100.0		20100.0	6730.0			16700.0		20100.0	11400.0					20300.0		
Aliphatics >C5-6	3190000	Commercial	ug/kg	0	ug/kg	<10	18.4		11.4		168.0			18.6		<10	10.8			<10		<10	15.6					<10		
Aliphatics >C6-8	7780000	Commercial	ug/kg	0	ug/kg	38.7	93.2		38.8		947.0			148.0		<10	31.2			<10		<10	74.4					<10		
Aliphatics >C8-10	2000000	Commercial	ug/kg	1	ug/kg	73.8	1800.0		73.0		6710.0			803.0		<10	116.0			<10		<10	69.6					<10		
Aliphatics >C10-12	9690000	Commercial	ug/kg	0	ug/kg	61.7	5290.0		116.0		9460.0			735.0		<10	364.0			<10		<10	55.2					<10		
Aliphatics >C12-16	24700000	POS PARK	ug/kg	0	ug/kg	2240.0	281000.0		6410.0		11900.0			6350.0		955.0	<100			<100		<100	11400.0					<100		
Aliphatics >C16-21	45500000	POS PARK	ug/kg	0	ug/kg	7200.0	1250000.0		14600.0		85800.0			71500.0		6070.0	<100			3400.0		3330.0	12500.0					<100		
Aliphatics >C21-35	45500000	POS PARK	ug/kg	0	ug/kg	13000.0	3160000.0		52500.0		364000.0			303000.0		23600.0	5430.0			63500.0		26300.0	20200.0					14200.0		
Aliphatics >C35-44	45500000	POS PARK	ug/kg	0	ug/kg	866.0	206000.0		11700.0		82100.0			58400.0		2990.0	9800.0			10200.0		14500.0	2600.0					<100		
Trivalent Chromium	33000	POS PARK	mg/kg	0	mg/kg								<0.3		<0.3															
Molybdenum	2890	POS PARK	mg/kg	0	mg/kg								0.3		9.2															
4-Nitroaniline	10800	POS PARK	ug/kg	0	ug/kg	<100	<100							<100		<200						<100	<100					<100		
Azobenzene	10800	POS PARK	ug/kg	0	ug/kg	<100	<100							<100		<200						<100	<100					<100		
4-Chloroaniline	10800000	POS PARK	ug/kg	0	ug/kg	<100	<100							<100		<200						<100	<100					<100		
2-Nitroaniline	10800	POS PARK	ug/kg	0	ug/kg	<100	<100							<100		<200						<100	<100					<100		

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	AEC18-LF-TP260	AEC18-LF-TP260	AEC18-LF-TP261	AEC18-LF-TP261	AEC18-LF-TP262	AEC18-LF-TP262	AEC18-LF-TP263	AEC18-LF-TP263	AEC18-LF-TP263	AEC18-LF-TP264	AEC18-LF-TP264	AEC18-LF-TP264	AEC18-LF-TP265	AEC18-LF-TP265	AEC18-LF-TP265	AEC18-LF-TP267	AEC18-LF-TP267	AEC18-LF-TP267	AEC18-LF-TP268	AEC18-LF-TP268A	AEC18-LF-TP268A	AEC18-LF-TP269	AEC18-LF-TP269			
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Ethylbenzene	5705.5	Commercial	mg/kg	0	mg/kg																										
Toluene	56293.7	Commercial	mg/kg	0	mg/kg																										
Anthracene	149000	POS PARK	mg/kg	0	mg/kg																										
Pyrene	15100	POS PARK	mg/kg	0	mg/kg																										
Xylene	6603.1	Commercial	mg/kg	0	mg/kg																										
Benzo (g,h,i) perylene	612	POS Maintenance	mg/kg	0	mg/kg																										
Indeno(1,2,3-cd)pyrene	44	POS Maintenance	mg/kg	0	mg/kg																										
Benzo(b)fluoranthene	13.2	POS PARK	mg/kg	4	mg/kg																										
Fluoranthene	6300	POS PARK	mg/kg	0	mg/kg																										
Benzo(k)fluoranthene	114	POS Maintenance	mg/kg	0	mg/kg																										
Acenaphthylene	28900	POS PARK	mg/kg	0	mg/kg																										
Chrysene	91	POS Maintenance	mg/kg	0	mg/kg																										
Benzo(a)pyrene	10.8	POS PARK	mg/kg	4	mg/kg																										
Dibenz-a-h-anthracene	1.15	POS PARK	mg/kg	5	mg/kg																										
Benzo(a)anthracene	48.8	POS PARK	mg/kg	0	mg/kg																										
Cyanide	24	POS PARK	mg/kg	5	mg/kg	<1	<1	<1	<0.5	<1	<1	4.5	<0.5	7.1	<1	<1	<1	<1	<1	<1	<1	<1	2.1	<1	<1	2.0	<1	<0.5	<1	<1	4.7
Benzene	26.60	Commercial	mg/kg	0	mg/kg																										
Lead	1300	POS PARK	mg/kg	13	mg/kg	114.0	55.0	58.4	3790.0	21.9	33.2	110.0	<0.002	942.0	128.0	104.0	52.4	64.6	55.3	29.4	110.0	60.4	143.0	60.1	59.2	0.0	180.0	16.0	71.4		
Mercury	244	POS PARK	mg/kg	0	mg/kg	<0.14	<0.14	<0.14	<0.0001	<0.14	<0.14	<0.14	<0.0001	0.2	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	0.6	<0.14	<0.0001	<0.14	<0.14	<0.14		
Nickel	804	POS PARK	mg/kg	8	mg/kg	24.2	14.9	18.0	0.0	17.3	18.3	23.2	0.2	38.6	20.0	24.6	16.5	17.1	29.1	10.4	54.1	22.3	24.6	29.2	29.6	0.1	48.5	16.8	10.0		
Antimony	3290	POS PARK	mg/kg	0	mg/kg	0.7	1.3	<0.6	0.4	<0.6	<0.6	1.8	<6	40.3	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	8.7	<0.6	<0.6	<0.6	<0.6	0.1	3.0	<0.6	<0.6		
Arsenic	168	POS PARK	mg/kg	0	mg/kg	17.3	6.9	13.4	0.0	11.4	14.2	11.7	0.0	17.0	13.4	15.0	10.6	10.5	17.4	6.4	20.4	12.4	15.2	12.2	31.9	0.0	11.1	8.9	8.9		
Beryllium	11.7	Commercial	mg/kg	1	mg/kg	1.3	0.8	0.9	<0.001	0.8	0.8	2.7	<0.001	0.6	2.7	2.1	0.9	0.8	1.3	0.3	0.8	1.1	0.7	1.0	0.7	<0.001	0.4	0.6	0.6		
Boron	46200	POS PARK	mg/kg	0	mg/kg	4.8	2.9	<1	2.4	1.2	<1	1.2	2.3	3.2	4.3	3.0	2.3	3.2	<1	1.3	2.2	<1	3.9	1.8	<1	1.7	5.7	<1	8.6		
Cadmium	190	Commercial	mg/kg	0	mg/kg	0.3	1.5	0.4	<0.0008	<0.02	<0.02	0.7	<0.0008	1.6	0.3	0.1	0.2	0.4	<0.02	0.3	<0.02	<0.02	0.4	0.7	<0.02	<0.0008	22.7	0.1	0.7		
Chromium	8570	Commercial	mg/kg	1	mg/kg	22.3	9.8	22.4	0.1	19.2	22.1	28.5	0.1	42.1	22.3	78.3	19.4	18.5	13.1	8.8	876.0	20.0	16.0	31.0	9.1	0.1	38.2	11.0	6.7		
Copper	44400	POS PARK	mg/kg	2	mg/kg	36.8	40.0	20.2	0.1	13.9	20.4	70.8	0.0	170.0	39.8	36.9	25.3	42.3	23.8	35.8	124.0	34.6	43.2	135.0	23.5	0.0	1900.0	23.6	52.2		
Vanadium	2820	POS Maintenance	mg/kg	0	mg/kg	54.3	16.0	40.8	0.0	39.4	46.0	35.8	<0.01	28.0	42.3	41.0	33.7	31.0	44.9	12.6	29.2	38.0	28.0	36.1	62.4	0.0	20.7	26.4	20.2		
Zinc	173000	POS PARK	mg/kg	0	mg/kg	117.0	115.0	96.6	0.1	46.7	64.8	614.0	0.0	2850.0	186.0	183.0	103.0	175.0	108.0	94.3	226.0	84.4	669.0	283.0	140.0	0.1	479.0	70.3	188.0		
Selenium	1850	POS PARK	mg/kg	0	mg/kg	<1	<1	<1	<0.01	<1	<1	<1	<0.01	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.01	<1	<1	<1		
Acenaphthene	28900	POS PARK	mg/kg	0	mg/kg																										
Phenanthrene	6170	POS PARK	mg/kg	0	mg/kg																										
Fluorene	19600	POS PARK	mg/kg	0	mg/kg																										
Napthalene	193	Commercial	mg/kg	0	mg/kg																										
Phenol (Monohydric)	7600	POS Maintenance	mg/kg	0	mg/kg	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	0.4	0.4	<0.035	<0.035	<0.035	0.6	<0.035	0.1	<0.035	<0.035	<0.035	0.8	<0.035	<0.035	1.4	<0.035	0.4		
Aromatics >C7-8	56293.7	Commercial	mg/kg	0	mg/kg																										
Aromatics >C8-10	3460	Commercial	mg/kg	0	mg/kg																										
Aromatics >C10-12	9240	POS PARK	mg/kg	0	mg/kg																										
Aromatics >C12-16	10200	POS PARK	mg/kg	0	mg/kg																										
Aromatics >C16-21	7630	POS PARK	mg/kg	0	mg/kg																										
Aromatics >C21-35	7820	POS PARK	mg/kg	0	mg/kg																										
Aliphatics >C5-6	3190	Commercial	mg/kg	0	mg/kg																										
Aliphatics >C6-8	7780	Commercial	mg/kg	0	mg/kg																										
Aliphatics >C8-10	2000	Commercial	mg/kg	0	mg/kg																										
Aliphatics >C10-12	9690	Commercial	mg/kg	0	mg/kg																										
Aliphatics >C12-16	24700	POS PARK	mg/kg	0	mg/kg																										
Aliphatics >C16-21	455000	POS PARK	mg/kg	0	mg/kg																										
Aliphatics >C21-35	455000	POS PARK	mg/kg	0	mg/kg																										
Aromatics >C5-7	27	Commercial	mg/kg	0	mg/kg																										
4-Nitroaniline	10.8	POS PARK	mg/kg	0	mg/kg																										
4-Nitrophenol	7600	POS PARK	mg/kg	0	mg/kg																										
Styrene	3170	Commercial	mg/kg	0	mg/kg																										
Azobenzene	10.8	POS PARK	mg/kg	0	mg/kg																										

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	AEC18-LF-TP260	AEC18-LF-TP260	AEC18-LF-TP261	AEC18-LF-TP261	AEC18-LF-TP262	AEC18-LF-TP262	AEC18-LF-TP263	AEC18-LF-TP263	AEC18-LF-TP263	AEC18-LF-TP264	AEC18-LF-TP264	AEC18-LF-TP264	AEC18-LF-TP264	AEC18-LF-TP265	AEC18-LF-TP265	AEC18-LF-TP265	AEC18-LF-TP267	AEC18-LF-TP267	AEC18-LF-TP267	AEC18-LF-TP268	AEC18-LF-TP268A	AEC18-LF-TP268A	AEC18-LF-TP269	AEC18-LF-TP269
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
n-propylbenzene	3860	Commercial	mg/kg	0	mg/kg																								
n-Butylbenzene	26.598	Commercial	mg/kg	0	mg/kg																								
2,4-Dimethylphenol	9180	POS PARK	mg/kg	0	mg/kg																								
3/4 Methylphenol	46000	POS PARK	mg/kg	0	mg/kg																								
1,4-Dichlorobenzene	4220	Commercial	mg/kg	0	mg/kg																								
1,2-Dichloroethane	0.671	Commercial	mg/kg	0	mg/kg																								
1,3,5-Trimethylbenzene	39.4	Commercial	mg/kg	0	mg/kg																								
Bromobenzene	91.5	Commercial	mg/kg	0	mg/kg																								
Chlorobenzene	55.6	Commercial	mg/kg	0	mg/kg																								
Phenol	7600	POS PARK	mg/kg	0	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.0	0.1	<0.01	<0.01	<0.01	0.5	<0.01	<0.01	<0.01	<0.01	0.0	0.1	<0.01	<0.01	0.1	<0.01	<0.01
Bis(2-chloroethoxy)methane	0.956	Commercial	mg/kg	0	mg/kg																								
Bis(2-ethylhexyl)phthalate	16600	POS PARK	mg/kg	0	mg/kg																								
Di-N-Octyl Phthalate	20000	POS PARK	mg/kg	0	mg/kg																								
Hexachlorobenzene (HCB)	28.9	POS PARK	mg/kg	0	mg/kg																								
1,2,4-Trichlorobenzene	215	Commercial	mg/kg	0	mg/kg																								
2,4-Dichlorophenol	977	POS PARK	mg/kg	0	mg/kg																								
2,4-Dinitrotoluene	928	POS PARK	mg/kg	0	mg/kg																								
Dibromochloromethane	1.96	Commercial	mg/kg	0	mg/kg																								
Tetrachloroethene	18.6	Commercial	mg/kg	0	mg/kg																								
Dimethylphthalate	2630	POS PARK	mg/kg	0	mg/kg																								
Dibenzofuran	10.8	POS PARK	mg/kg	0	mg/kg																								
Sec-Butylbenzene	26.6	Commercial	mg/kg	0	mg/kg																								
cis-1,2-Dichloroethene	13.6	Commercial	mg/kg	0	mg/kg																								
trans-1,2-Dichloroethene	20.7	Commercial	mg/kg	0	mg/kg																								
Methyl tert-butyl ether (MTBE)	7480	Commercial	mg/kg	0	mg/kg																								
1,3-Dichlorobenzene	29.9	Commercial	mg/kg	0	mg/kg																								
Tetrachloromethane (Carbon Tetra Chloride)	2.87	Commercial	mg/kg	0	mg/kg																								
2,3,4,6-Tetrachlorophenol	1000	POS PARK	mg/kg	0	mg/kg																								
4-Chloro-3-Methylphenol	46100	POS PARK	mg/kg	0	mg/kg																								
2,6-Dinitrotoluene	468	POS PARK	mg/kg	0	mg/kg																								
1,1,1,2-Tetrachloroethane	108	Commercial	mg/kg	0	mg/kg																								
Chloroform	99.1	Commercial	mg/kg	0	mg/kg																								
1,1,1-Trichloroethane	660	Commercial	mg/kg	0	mg/kg																								
Chloroethene	0.0594	Commercial	mg/kg	0	mg/kg																								
Tribromomethane	714	Commercial	mg/kg	0	mg/kg																								
Bromodichloromethane	1.96	Commercial	mg/kg	0	mg/kg																								
1,1-Dichloroethane	263	Commercial	mg/kg	0	mg/kg																								
1,1-Dichloroethene	24.3	Commercial	mg/kg	0	mg/kg																								
1,2-Dichloropropane	3.13	Commercial	mg/kg	0	mg/kg																								
1,1,2-Trichloroethane	89.1	Commercial	mg/kg	0	mg/kg																								
Trichloroethene	1.23	Commercial	mg/kg	0	mg/kg																								
Diethylphthalate	89300	POS PARK	mg/kg	0	mg/kg																								
Di-N-Butyl Phthalate	2630	POS PARK	mg/kg	0	mg/kg																								
Butylbenzylphthalate	254000	POS PARK	mg/kg	0	mg/kg																								
Carbazole	10.8	POS PARK	mg/kg	0	mg/kg																								
1,2,3 Trichlorobenzene	102	Commercial	mg/kg	0	mg/kg																								
Hexachlorobutadiene (HCBD)	30.7	Commercial	mg/kg	0	mg/kg																								
Pentachlorophenol (PCP)	113	POS PARK	mg/kg	0	mg/kg																								
2,4,6-Trichlorophenol	1010	POS PARK	mg/kg	0	mg/kg																								
2-Nitroaniline	10.8	POS PARK	mg/kg	0	mg/kg																								
2-Methylnaphthalene	193	Commercial	mg/kg	0	mg/kg																								
2-Chloronaphthalene	370	Commercial	mg/kg	0	mg/kg																								
2,3,5,6-Tetrachlorophenol	1000	POS PARK	mg/kg	0	mg/kg																								

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	AEC18-LF-TP260	AEC18-LF-TP260	AEC18-LF-TP261	AEC18-LF-TP261	AEC18-LF-TP262	AEC18-LF-TP262	AEC18-LF-TP263	AEC18-LF-TP263	AEC18-LF-TP263	AEC18-LF-TP264	AEC18-LF-TP264	AEC18-LF-TP264	AEC18-LF-TP264	AEC18-LF-TP265	AEC18-LF-TP265	AEC18-LF-TP265	AEC18-LF-TP267	AEC18-LF-TP267	AEC18-LF-TP267	AEC18-LF-TP268	AEC18-LF-TP268A	AEC18-LF-TP268A	AEC18-LF-TP269	AEC18-LF-TP269
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
O-Xylene	6603.1	Commercial	mg/kg	0	mg/kg																								
2-Methylphenol	46100	POS PARK	mg/kg	0	mg/kg																								
1,2-Dichlorobenzene	2020	Commercial	mg/kg	0	mg/kg																								
2-Chlorophenol	1010	POS PARK	mg/kg	0	mg/kg																								
1,2,4-Trimethylbenzene	39.4	Commercial	mg/kg	0	mg/kg																								
2,4,5-Trichlorophenol	1010	POS PARK	mg/kg	0	mg/kg		<0.01																						
Isopropylbenzene	1300	Commercial	mg/kg	0	mg/kg																								
4-Isopropyltoluene	1300	Commercial	mg/kg	0	mg/kg																								
m,p xylenes	5923.3	Commercial	mg/kg	0	mg/kg																								
Chromium - Hexavalent	220	POS PARK	mg/kg	0	mg/kg		<0.6	<0.3				<0.3			<0.6	<0.6							<0.6			<0.3			
Cyanide Free	168	Commercial	mg/kg	0	mg/kg			<0.5				<0.5														<0.5			
Complex Cyanide	3460	POS PARK	mg/kg	0	mg/kg			<0.5				<0.5														<0.5			
4-Nitrophenol	7600000	POS PARK	ug/kg	0	ug/kg		<100	<100	<100	<100	<200			<100	<100	<100			<100	<100			<100	<100	<1000	<100			
Ethylbenzene	5705504.8	Commercial	ug/kg	0	ug/kg		<4	<4	15.6	193.0	<4	324.0	17.3	<4	<4	<4	5.3		<4	<4		<40	<4	2330.0	95.7	<4	<4		
Styrene	3170000	Commercial	ug/kg	0	ug/kg		<10	<10	<10	<200	<100			<10	<10	<10			<10	<100			<100	<2000	<10				
n-Propylbenzene	3860000	Commercial	ug/kg	0	ug/kg		<10	<10	<10	<200	186.0			<10	<10	<10			<10	<100			<100	<2000	34.7				
n-Butylbenzene	26597.9	Commercial	ug/kg	0	ug/kg		<11	<11	<11	<220	<110			<11	<11	<11			<11	<110			<110	<2200	<11				
2,4-Dimethylphenol	9180000	POS PARK	ug/kg	0	ug/kg		<100	<100	<100	<100	<200			<100	<100	<100			<100	<100			<100	<1000	<100				
4-Methylphenol	46000000	POS PARK	ug/kg	0	ug/kg		<100	<100	<100	<100	<200			<100	<100	<100			<100	<100			<100	<1000	3540.0				
1,4-Dichlorobenzene	4220000	Commercial	ug/kg	0	ug/kg		<100	<100	<100	<100	<50			<100	<100	<100			<100	<100			<100	<1000	<100				
1,2-Dichloroethane	671	Commercial	ug/kg	0	ug/kg		<5	<5	<100	<50				<5	<5	<5			<5	<50			<1000	<5					
1,3,5-Trimethylbenzene	39400	Commercial	ug/kg	3	ug/kg		<8	20.7		372.0	701.0			<8	<8	20.9			39.5	<80			4310.0	249.0					
Bromobenzene	91500	Commercial	ug/kg	0	ug/kg		<10	<10	<100	<100	<100			<10	<10	<10			<10	<100			<1000	<10					
Toluene VOC	56293712.79	Commercial	ug/kg	0	ug/kg		<7	<7	14.0	<140	<7	<70	<7	<7	<7	<7	<7		<7	<7		<70	<7	2580.0	<7	<7	<7		
Chlorobenzene	55600	Commercial	ug/kg	0	ug/kg		<5	<5	<100	<50				<5	<5	<5			<5	<50			7240.0	<5					
Phenol SVOC	7600000	POS PARK	ug/kg	0	ug/kg		<100	<100	<100	<200				<100	<100	<100			<100	<100			<1000	<100					
Bis(2-chloroethoxy)methane	956	Commercial	ug/kg	1	ug/kg		<100	<100	<100	<200				<100	<100	<100			<100	<100			<1000	<100					
Bis(2-ethylhexyl)phthalate	16600000	POS PARK	ug/kg	0	ug/kg		<100	1120.0	<100	<100	75100.0			<100	<100	162.0			<100	298.0			<1000	201.0					
n-Diethylphthalate	20000000	POS PARK	ug/kg	0	ug/kg		<100	529.0	<100	<100	11000.0			<100	<100	<100			<100	<100			<1000	<100					
Hexachlorobenzene	28900	POS PARK	ug/kg	0	ug/kg		<100	<100	<100	<100	<200			<100	<100	<100			<100	<100			<1000	<100					
1,2,4-Trichlorobenzene	215000	Commercial	ug/kg	0	ug/kg		<100	<100	<100	<100	<200			<100	<100	<100			<100	<100			<1000	<100					
2,4-Dichlorophenol	977000	POS PARK	ug/kg	0	ug/kg		<100	<100	<100	<100	<200			<100	<100	<100			<100	<100			<1000	<100					
2,4-Dinitrotoluene	928000	POS PARK	ug/kg	0	ug/kg		<100	<100	<100	<100	<200			<100	<100	<100			<100	<100			<1000	<100					
Dibromochloromethane	1960	Commercial	ug/kg	0	ug/kg		<10	<10	<200	<100				<10	<10	<10			<10	<100			<2000	<10					
Tetrachloroethene	18600	Commercial	ug/kg	0	ug/kg		<5	<5	<100	<50				<5	<5	<5			<5	<50			<1000	<5					
Dimethyl phthalate	2630000	POS PARK	ug/kg	0	ug/kg		<100	<100	<100	<200				<100	<100	<100			<100	<100			<1000	290.0					
Dibenzofuran	10800	POS PARK	ug/kg	5	ug/kg		<100	664.0	<100	<100	2960.0			403.0	<100	325.0			<100	<100			<1000	<100					
sec-Butylbenzene	26597.8811	Commercial	ug/kg	0	ug/kg		<10	<10	<200	<100				<10	<10	<10			17.0	<100			<2000	50.9					
cis 1,2-Dichloroethene	13600	Commercial	ug/kg	0	ug/kg		<6	<6	<120	<60				<6	<6	<6			<6	<60			<1200	<6					
trans 1,2-Dichloroethene	20700	Commercial	ug/kg	0	ug/kg		<10	<10	<200	<100				<10	<10	<10			<10	<100			<2000	<10					
Perylene	10800000	POS PARK	ug/kg	0	ug/kg																								
1,3-Dichlorobenzene	29900	Commercial	ug/kg	0	ug/kg		<100	<100	<100	<80				<100	<100	<100			<100	<100			<1000	<100					
Carbon Tetrachloride	2870	Commercial	ug/kg	0	ug/kg		<10	<10	<200	<100				<10	<10	<10			<10	<100			<2000	<10					
4-Chloro-3-methylphenol	46100000	POS PARK	ug/kg	0	ug/kg		<100	<100	<100	7280.0				<100	<100	<100			<100	<100			<1000	<100					
2,6-Dinitrotoluene	468000	POS PARK	ug/kg	0	ug/kg		<100	<100	<100	11200.0				<100	<100	<100			<100	<100			<1000	<100					
1,1,1,2-Tetrachloroethane	108000	Commercial	ug/kg	0	ug/kg		<10	<10	<200	<100				<10	<10	<10			<10	<100			<2000	<10					
Chloroform	99100	Commercial	ug/kg	0	ug/kg		<8	<8	<160	<80				<8	<8	<8			<8	<80			<1600	<8					
Hexachloroethane	20900000	Commercial	ug/kg	0	ug/kg		<100	<100	<100	<200				<100	<100	<100			<100	<100			<1000	<100					
Benzene VOC	26597.9	Commercial	ug/kg	0	ug/kg		<9	<9	<9	<180	<9	<90	<9	<9	<9	<9	<9		<9	<9		<90	<9	<1800	<9	<9	<9		
1,1,1-Trichloroethane	660000	Commercial	ug/kg	0	ug/kg		<7	<7	<140	<70				<7	<7	<7			<7	<70			<1400	<7					
Barium	5770	POS PARK	mg/kg	0	mg/kg			0.8			0.																		

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	AEC18-LF-TP260	AEC18-LF-TP260	AEC18-LF-TP261	AEC18-LF-TP261	AEC18-LF-TP262	AEC18-LF-TP262	AEC18-LF-TP263	AEC18-LF-TP263	AEC18-LF-TP263	AEC18-LF-TP264	AEC18-LF-TP264	AEC18-LF-TP264	AEC18-LF-TP264	AEC18-LF-TP265	AEC18-LF-TP265	AEC18-LF-TP265	AEC18-LF-TP267	AEC18-LF-TP267	AEC18-LF-TP267	AEC18-LF-TP268	AEC18-LF-TP268A	AEC18-LF-TP268A	AEC18-LF-TP269	AEC18-LF-TP269	
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Vinyl Chloride	59.4	Commercial	ug/kg	0	ug/kg		<6		<6		<120		<60			<6	<6	<6			<6		<60		<1200		<6			
Dichloromethane VOC	257000000	Commercial	ug/kg	0	ug/kg		<10		61.9		<200		<100			<10	14.7	<10			166.0		<100		<2000		29.1			
Carbon Disulphide	11000000	Commercial	ug/kg	0	ug/kg		<7		30.1		<140		<70			14.5	36.2	33.5			23.6		<70		<1400		31.0			
Bromoform	714000	Commercial	ug/kg	0	ug/kg		<10		<10		<200		<100			<10	<10	<10			<10		<100		<2000		<10			
Bromodichloromethane	1960	Commercial	ug/kg	0	ug/kg		<7		<7		<140		<70			<7	<7	<7			<7		<70		<1400		<7			
1,1-Dichloroethane	263000	Commercial	ug/kg	0	ug/kg		<8		<8		<160		<80			<8	<8	<8			<8		<80		<1600		<8			
1,1-Dichloroethene	24300	Commercial	ug/kg	0	ug/kg		<10		<10		<200		<100			<10	<10	<10			<10		<100		<2000		<10			
Isophorone	26597881.1	Commercial	ug/kg	0	ug/kg		<100		<100		<100		<200			<100	<100	<100			<100		<100		<1000		<100			
1,2-Dichloropropane	3130	Commercial	ug/kg	0	ug/kg		<10		<10		<200		<100			<10	<10	<10			<10		<100		<2000		<10			
1,1,2-Trichloroethane	89100	Commercial	ug/kg	0	ug/kg		<10		<10		<200		<100			<10	<10	<10			<10		<100		<2000		<10			
Trichloroethene	1230	Commercial	ug/kg	0	ug/kg		<9		<9		<180		<90			<9	<9	<9			<9		<90		<1800		<9			
1,1,2,2-Tetrachloroethane	274000000	Commercial	ug/kg	0	ug/kg		<10		<10		<200		<100			<10	<10	<10			<10		<100		<2000		<10			
Diethyl phthalate	89300000	POS PARK	ug/kg	0	ug/kg		<100		<100		<100		<200			<100	<100	<100			<100		<100		<1000		552.0			
n-Dibutylphthalate	2630000	POS PARK	ug/kg	0	ug/kg		189.0		<100		<100		1500.0			<100	<100	<100			<100		<100		<1000		242.0			
Butylbenzyl phthalate SVOC	254000000	POS PARK	ug/kg	0	ug/kg		<100		308.0		<100		626.0			<100	<100	<100			<100		<100		<1000		<100			
Carbazole	10800	POS PARK	ug/kg	2	ug/kg		<100		431.0		<100		602.0			<100	<100	534.0			<100		<100		<1000		<100			
1,2,3-Trichlorobenzene	102000	Commercial	ug/kg	0	ug/kg		<20		<20		<400		<200			<20	<20	<20			<20		<200		<4000		<20			
Hexachlorobutadiene	30700	Commercial	ug/kg	0	ug/kg		<100		<100		<100		<200			<100	<100	<100			<100		<100		<1000		<100			
Pentachlorophenol	113000	POS PARK	ug/kg	0	ug/kg		<100		<100		<100		<200			<100	<100	<100			<100		<100		<1000		<100			
2,4,6-Trichlorophenol	1010000	POS PARK	ug/kg	0	ug/kg		<100		<100		<100		<200			<100	<100	<100			<100		<100		<1000		<100			
2-Nitrophenol	7600000000	POS PARK	ug/kg	0	ug/kg		<100		<100		<100		<200			<100	<100	<100			<100		<100		<1000		<100			
2-Methylnaphthalene (SVOC) DEFAULT	193000	Commercial	ug/kg	2	ug/kg		<100		221.0		<100		2030.0			427.0	<100	186.0			<100		<100		21000.0		343.0			
2-Chloronaphthalene	370000	Commercial	ug/kg	0	ug/kg		<100		<100		<100		<200			<100	<100	<100			<100		<100		<1000		<100			
o-Xylene	6603100.7	Commercial	ug/kg	0	ug/kg		<10		<10		23.6		<200	<10	<100	<10	<100	<10			<10		<100	<10	2780.0		105.0	<10	<10	
2-Methylphenol	46100000	POS PARK	ug/kg	0	ug/kg		<100		<100		<100		<200			<100	<100	<100			<100		<100		<1000		<100			
1,2-Dichlorobenzene	2020000	Commercial	ug/kg	0	ug/kg		<10		<10		<100		<100			<10	<10	<10			<10		<100		7740.0		<10			
2-Chlorophenol	1010000	POS PARK	ug/kg	0	ug/kg		<100		<100		<100		<200			<100	<100	<100			<100		<100		<1000		<100			
1,2,4-Trimethylbenzene	39400	Commercial	ug/kg	5	ug/kg		<9		109.0		1080.0		1770.0			<9	44.5	114.0			131.0		<90		14200.0		661.0			
2,4,5-Trichlorophenol	1010000	POS PARK	ug/kg	0	ug/kg		<100		<100		<100		<200			<100	<100	<100			<100		<100		<1000		<100			
Isopropylbenzene	1300000	Commercial	ug/kg	0	ug/kg		<5		<5		<100		126.0			<5	<5	11.8			14.0		<50		<1000		27.7			
Nitrobenzene	26597881.1	Commercial	ug/kg	0	ug/kg		<100		<100		<100		<200			<100	<100	<100			<100		<100		<1000		<100			
4-Isopropyltoluene	1300000	Commercial	ug/kg	0	ug/kg		<10		<10		<200		<100			<10	<10	<10			<10		<100		<2000		227.0			
m & p Xylene	5923262.7	Commercial	ug/kg	0	ug/kg		<10		<10		212.0		2940.0	<10	2250.0	339.0	<10	<10	23.1	72.4	20.5	34.3		<100	37.2	5410.0		571.0	<10	151.0
Aro >C8-C9	7220	POS PARK	mg/kg	0	mg/kg																									
Aro >C9-C10	7220	POS PARK	mg/kg	0	mg/kg																									
Tributyltin SUBCON I2	42400000	POS PARK	ug/kg	0	ug/kg																									
Atrazine SUBCON Alcontrol	379000000	POS Maintenance	ug/kg	0	ug/kg																									
Aldrin SUBCON Alcontrol	7800000	POS PARK	ug/kg	0	ug/kg		<500																							
alpha-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	46500000	POS PARK	ug/kg	0	ug/kg		<500																							
beta-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	13300000	POS PARK	ug/kg	0	ug/kg		<500																							
Endosulphan II	1960000000	POS Maintenance	ug/kg	0	ug/kg		<500																							
Dieldrin SUBCON Alcontrol	12900000	POS PARK	ug/kg	0	ug/kg		<500																							
Dichlorvos	26000000	POS PARK	ug/kg	0	ug/kg		<500																							
Endosulphan I	1950000000	POS Maintenance	ug/kg	0	ug/kg		<500																							
Aro >C35-C44	7820	POS PARK	mg/kg	0	mg/kg																									
Ali >C35-C44	455000	POS PARK	mg/kg	0	mg/kg																									
Anthracene SVOC	149000000	POS PARK	ug/kg	0	ug/kg		98.6	<100	1550.0		<100	3160.0	10100.0	198.0	585.0	488.0	222.0	1550.0			73.6	306.0		<100	280.0	399.0		<100	25.6	<160
Pyrene SVOC	15100000	POS PARK	ug/kg	0	ug/kg		493.0	505.0	8750.0		183.0	11400.0	2630.0	1150.0	3050.0	2540.0	1460.0	7310.0			269.0	1440.0		201.0	1240.0	1150.0		350.0	259.0	710.0
Benzo(ghi)perylene SVOC	612000	POS Maintenance	ug/kg	0	ug/kg		387.0	239.0	2240.0		<100	1260.0	268.0	396.0	859.0	661.0	433.0	1830.0			78.2	429.0		<100	352.0	<240		<100	108.0	<240
Indeno(1,2,3-cd																														

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	AEC18-LF-TP260	AEC18-LF-TP260	AEC18-LF-TP261	AEC18-LF-TP261	AEC18-LF-TP262	AEC18-LF-TP262	AEC18-LF-TP263	AEC18-LF-TP263	AEC18-LF-TP263	AEC18-LF-TP264	AEC18-LF-TP264	AEC18-LF-TP264	AEC18-LF-TP265	AEC18-LF-TP265	AEC18-LF-TP265	AEC18-LF-TP267	AEC18-LF-TP267	AEC18-LF-TP267	AEC18-LF-TP268	AEC18-LF-TP268A	AEC18-LF-TP268A	AEC18-LF-TP269	AEC18-LF-TP269	
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Benzo(k)fluoranthene SVOC	114000	POS Maintenance	ug/kg	0	ug/kg	175.0	147.0		1990.0		<100	941.0	272.0	233.0	595.0	493.0	562.0	2670.0		53.0	652.0		130.0	293.0	<140		<100	77.5	<140
Acenaphthylene SVOC	28900000	POS PARK	ug/kg	0	ug/kg	38.5	<100		172.0		<100	2750.0	<200	314.0	164.0	<100	<100	325.0		99.0	<100		<100	<60	<1000		<100	13.5	<120
Chrysene SVOC	91000	POS Maintenance	ug/kg	1	ug/kg	278.0	284.0		3160.0		<100	2380.0	680.0	514.0	1320.0	1040.0	714.0	2990.0		123.0	824.0		124.0	607.0	407.0		185.0	116.0	292.0
Benzo(a)pyrene SVOC	10800	POS PARK	ug/kg	8	ug/kg	411.0	302.0		3670.0		<100	1920.0	460.0	486.0	1250.0	934.0	749.0	3340.0		106.0	765.0		141.0	540.0	396.0		135.0	125.0	269.0
Dibenzo(ah)anthracene SVOC	1150	POS PARK	ug/kg	10	ug/kg	91.7	<100		614.0		<100	299.0	<115	<230	204.0	<100	<100	360.0		<23	<100		<100	<115	<1000		<100	<23	<230
Benzo(a)anthracene SVOC	48800	POS PARK	ug/kg	2	ug/kg	269.0	328.0		4100.0		<100	2600.0	640.0	416.0	1210.0	956.0	866.0	4050.0		111.0	676.0		<100	582.0	511.0		204.0	113.0	226.0
Acenaphthene SVOC	28900000	POS PARK	ug/kg	0	ug/kg	22.7	<100		1180.0		159.0	2610.0	4890.0	306.0	250.0	683.0	211.0	325.0		102.0	201.0		<100	787.0	<1000		<100	<8	<80
Phenanthrene SVOC	6170000	POS PARK	ug/kg	0	ug/kg	313.0	261.0		6410.0		183.0	15600.0	6920.0	1170.0	2520.0	1770.0	749.0	6480.0		236.0	1090.0		<100	1010.0	16300.0		467.0	61.5	458.0
Fluorene SVOC	19600000	POS PARK	ug/kg	0	ug/kg	36.4	<100		1240.0		<100	3090.0	3560.0	337.0	347.0	610.0	187.0	626.0		83.7	276.0		<100	626.0	3810.0		<100	<10	<100
Naphthalene SVOC	193000	Commercial	ug/kg	1	ug/kg	29.8	<100		202.0		<100	111.0	1430.0	526.0	91.4	245.0	269.0	203.0		26.8	<100		<100	566.0	11500.0		232.0	<9	223.0
Xylenols	9180	POS PARK	mg/kg	0	mg/kg	<0.015	<0.015	<0.015	0.0	<0.015	<0.015	<0.015	0.4	0.4	<0.015	<0.015	<0.015	0.1	<0.015	0.1	<0.015	<0.015	<0.015	0.2	<0.015	<0.015	0.2	<0.015	0.2
Cresols	46100	POS PARK	mg/kg	0	mg/kg	<0.01	<0.01	0.0	<0.01	<0.01	<0.01	0.0	0.0	<0.05	<0.01	<0.01	<0.01	0.0	<0.01	0.0	<0.01	<0.01	<0.01	0.6	<0.01	0.0	1.1	<0.01	0.1
Tributyltin	42400	POS PARK	mg/kg	0	mg/kg		<0.02																						
Methyl tert-butyl ether (MTBE)	7480000	Commercial	ug/kg	0	ug/kg		<10		<10		<200	<10	<100		<10	<10	<10	<10		<10	<10		<100		<2000		<10		
Aromatics >C6-7	27000000	Commercial	ug/kg	0	ug/kg		61.7		<10			<10	<10		<10	12.2				<10	<10		<10		<200		<10		
Aromatics >C7-8	56293712.8	Commercial	ug/kg	0	ug/kg		31.5		<10			<10	<10		<10	<10				<10	<10		<10		1660.0		12.5		
Aromatics >C8-10	3460000	Commercial	ug/kg	0	ug/kg		859.0		903.0			228.0	5080.0		84.9	159.0				360.0	1070.0		288.0		109000.0		2260.0		
Aromatics >C10-12	9240000	POS PARK	ug/kg	0	ug/kg		9720.0		1590.0			192.0	3920.0		187.0	154.0				487.0	1530.0		266.0		128000.0		2620.0		
Aromatics >C12-16	10200000	POS PARK	ug/kg	0	ug/kg		<100		18800.0			19000.0	152000.0		6840.0	13100.0				<100	36100.0		8060.0		380000.0		20200.0		
Aromatics >C16-21	7630000	POS PARK	ug/kg	0	ug/kg		11900.0		104000.0			91800.0	326000.0		40900.0	26800.0				10100.0	453000.0		79500.0		1480000.0		107000.0		
Aromatics >C21-35	7820000	POS PARK	ug/kg	1	ug/kg		108000.0		323000.0			416000.0	1270000.0		159000.0	77600.0				56000.0	1260000.0		291000.0		5970000.0		472000.0		
Aromatics >C35-44	7820000	POS PARK	ug/kg	0	ug/kg		31500.0		72300.0			122000.0	610000.0		78300.0	25000.0				6010.0	287000.0		59100.0		2790000.0		80400.0		
Aliphatics >C5-6	3190000	Commercial	ug/kg	0	ug/kg		<10		16.0			14.8	33.9		12.3	24.4				<10	41.8		26.4		3330.0		29.6		
Aliphatics >C6-8	7780000	Commercial	ug/kg	0	ug/kg		54.2		221.0			133.0	1020.0		39.4	109.0				87.8	248.0		163.0		42300.0		235.0		
Aliphatics >C8-10	2000000	Commercial	ug/kg	1	ug/kg		1290.0		1350.0			341.0	7620.0		117.0	210.0				541.0	1600.0		431.0		163000.0		3390.0		
Aliphatics >C10-12	9690000	Commercial	ug/kg	0	ug/kg		14600.0		2380.0			289.0	5880.0		279.0	231.0				730.0	2300.0		400.0		191000.0		3920.0		
Aliphatics >C12-16	24700000	POS PARK	ug/kg	0	ug/kg		<100		24500.0			7420.0	72400.0		8400.0	19200.0				34400.0	173000.0		17200.0		2590000.0		120000.0		
Aliphatics >C16-21	455000000	POS PARK	ug/kg	0	ug/kg		14600.0		106000.0			50700.0	450000.0		25000.0	25500.0				165000.0	1130000.0		74600.0		7140000.0		511000.0		
Aliphatics >C21-35	455000000	POS PARK	ug/kg	0	ug/kg		85700.0		438000.0			726000.0	2910000.0		167000.0	71200.0				506000.0	2650000.0		229000.0		20200000.0		707000.0		
Aliphatics >C35-44	455000000	POS PARK	ug/kg	0	ug/kg		18500.0		53700.0			106000.0	678000.0		67100.0	14100.0				55000.0	348000.0		39400.0		4840000.0		81000.0		
Trivalent Chromium	33000	POS PARK	mg/kg	0	mg/kg				<0.3				<0.3													<0.3			
Molybdenum	2890	POS PARK	mg/kg	0	mg/kg				0.3				0.3													0.2			
4-Nitroaniline	10800	POS PARK	ug/kg	0	ug/kg		<100		<100		<100		346.0		<100	<100	<100			<100	<100		<100		<1000		<100		
Azobenzene	10800	POS PARK	ug/kg	0	ug/kg		<100		<100		<100		<200		<100	<100	<100			<100	<100		<100		<1000		<100		
4-Chloroaniline	10800000	POS PARK	ug/kg	0	ug/kg		<100		<100		<100		1040.0		<100	<100	<100			<100	<100		<100		<1000		<100		
2-Nitroaniline	10800	POS PARK	ug/kg	0	ug/kg		<100		<100		<100		817.0		<100	<100	<100			<100	<100		<100		<1000		<100		

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	AEC18-LF-TP269	AEC18-LF-TP270	AEC18-LF-TP270	AEC18-LF-TP270	AEC18-LF-TP272	AEC18-LF-TP272	AEC18-LF-TP272	AEC18-LF-TP273	AEC18-LF-TP273	AEC18-LF-TP273	AEC18-LF-TP274	AEC18-LF-TP274	AEC18-LF-TP274	AEC18-LF-TP274	AEC18-LF-TP275	AEC18-LF-TP275	AEC18-LF-TP275	AEC18-LF-TP276	AEC18-LF-TP276	AEC18-LF-TP276	AEC18-LF-TP276	AEC18-LF-WS201	AEC18-LF-WS201	AEC18-LF-WS203
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
n-propylbenzene	3860	Commercial	mg/kg	0	mg/kg																								
n-Butylbenzene	26.598	Commercial	mg/kg	0	mg/kg																								
2,4-Dimethylphenol	9180	POS PARK	mg/kg	0	mg/kg																								
3/4 Methylphenol	46000	POS PARK	mg/kg	0	mg/kg																								
1,4-Dichlorobenzene	4220	Commercial	mg/kg	0	mg/kg																								
1,2-Dichloroethane	0.671	Commercial	mg/kg	0	mg/kg																								
1,3,5-Trimethylbenzene	39.4	Commercial	mg/kg	0	mg/kg																								
Bromobenzene	91.5	Commercial	mg/kg	0	mg/kg																								
Chlorobenzene	55.6	Commercial	mg/kg	0	mg/kg																								
Phenol	7600	POS PARK	mg/kg	0	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bis(2-chloroethoxy)methane	0.956	Commercial	mg/kg	0	mg/kg																								
Bis(2-ethylhexyl)phthalate	16600	POS PARK	mg/kg	0	mg/kg																								
Di-N-Octyl Phthalate	20000	POS PARK	mg/kg	0	mg/kg																								
Hexachlorobenzene (HCB)	28.9	POS PARK	mg/kg	0	mg/kg																								
1,2,4-Trichlorobenzene	215	Commercial	mg/kg	0	mg/kg																								
2,4-Dichlorophenol	977	POS PARK	mg/kg	0	mg/kg																								
2,4-Dinitrotoluene	928	POS PARK	mg/kg	0	mg/kg																								
Dibromochloromethane	1.96	Commercial	mg/kg	0	mg/kg																								
Tetrachloroethene	18.6	Commercial	mg/kg	0	mg/kg																								
Dimethylphthalate	2630	POS PARK	mg/kg	0	mg/kg																								
Dibenzofuran	10.8	POS PARK	mg/kg	0	mg/kg																								
Sec-Butylbenzene	26.6	Commercial	mg/kg	0	mg/kg																								
cis-1,2-Dichloroethene	13.6	Commercial	mg/kg	0	mg/kg																								
trans-1,2-Dichloroethene	20.7	Commercial	mg/kg	0	mg/kg																								
Methyl tert-butyl ether (MTBE)	7480	Commercial	mg/kg	0	mg/kg																								
1,3-Dichlorobenzene	29.9	Commercial	mg/kg	0	mg/kg																								
Tetrachloromethane (Carbon Tetra Chloride)	2.87	Commercial	mg/kg	0	mg/kg																								
2,3,4,6-Tetrachlorophenol	1000	POS PARK	mg/kg	0	mg/kg																								
4-Chloro-3-Methylphenol	46100	POS PARK	mg/kg	0	mg/kg																								
2,6-Dinitrotoluene	468	POS PARK	mg/kg	0	mg/kg																								
1,1,1,2-Tetrachloroethane	108	Commercial	mg/kg	0	mg/kg																								
Chloroform	99.1	Commercial	mg/kg	0	mg/kg																								
1,1,1-Trichloroethane	660	Commercial	mg/kg	0	mg/kg																								
Chloroethene	0.0594	Commercial	mg/kg	0	mg/kg																								
Tribromomethane	714	Commercial	mg/kg	0	mg/kg																								
Bromodichloromethane	1.96	Commercial	mg/kg	0	mg/kg																								
1,1-Dichloroethane	263	Commercial	mg/kg	0	mg/kg																								
1,1-Dichloroethene	24.3	Commercial	mg/kg	0	mg/kg																								
1,2-Dichloropropane	3.13	Commercial	mg/kg	0	mg/kg																								
1,1,2-Trichloroethane	89.1	Commercial	mg/kg	0	mg/kg																								
Trichloroethene	1.23	Commercial	mg/kg	0	mg/kg																								
Diethylphthalate	89300	POS PARK	mg/kg	0	mg/kg																								
Di-N-Butyl Phthalate	2630	POS PARK	mg/kg	0	mg/kg																								
Butylbenzylphthalate	254000	POS PARK	mg/kg	0	mg/kg																								
Carbazole	10.8	POS PARK	mg/kg	0	mg/kg																								
1,2,3 Trichlorobenzene	102	Commercial	mg/kg	0	mg/kg																								
Hexachlorobutadiene (HCBD)	30.7	Commercial	mg/kg	0	mg/kg																								
Pentachlorophenol (PCP)	113	POS PARK	mg/kg	0	mg/kg																								
2,4,6-Trichlorophenol	1010	POS PARK	mg/kg	0	mg/kg																								
2-Nitroaniline	10.8	POS PARK	mg/kg	0	mg/kg																								
2-Methylnaphthalene	193	Commercial	mg/kg	0	mg/kg																								
2-Chloronaphthalene	370	Commercial	mg/kg	0	mg/kg																								
2,3,5,6-Tetrachlorophenol	1000	POS PARK	mg/kg	0	mg/kg																								

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	AEC18-LF-TP269	AEC18-LF-TP270	AEC18-LF-TP270	AEC18-LF-TP270	AEC18-LF-TP272	AEC18-LF-TP272	AEC18-LF-TP272	AEC18-LF-TP273	AEC18-LF-TP273	AEC18-LF-TP273	AEC18-LF-TP274	AEC18-LF-TP274	AEC18-LF-TP274	AEC18-LF-TP274	AEC18-LF-TP275	AEC18-LF-TP275	AEC18-LF-TP275	AEC18-LF-TP276	AEC18-LF-TP276	AEC18-LF-TP276	AEC18-LF-TP276	AEC18-LF-WS201	AEC18-LF-WS201	AEC18-LF-WS203	
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
O-Xylene	6603.1	Commercial	mg/kg	0	mg/kg																									
2-Methylphenol	46100	POS PARK	mg/kg	0	mg/kg																									
1,2-Dichlorobenzene	2020	Commercial	mg/kg	0	mg/kg																									
2-Chlorophenol	1010	POS PARK	mg/kg	0	mg/kg																									
1,2,4-Trimethylbenzene	39.4	Commercial	mg/kg	0	mg/kg																									
2,4,5-Trichlorophenol	1010	POS PARK	mg/kg	0	mg/kg																									
Isopropylbenzene	1300	Commercial	mg/kg	0	mg/kg																									
4-Isopropyltoluene	1300	Commercial	mg/kg	0	mg/kg																									
m,p xylenes	5923.3	Commercial	mg/kg	0	mg/kg																									
Chromium - Hexavalent	220	POS PARK	mg/kg	0	mg/kg				<0.6								<0.6												<0.3	
Cyanide Free	168	Commercial	mg/kg	0	mg/kg				<1								<1												<0.5	
Complex Cyanide	3460	POS PARK	mg/kg	0	mg/kg				1.8								59.9												<0.5	
4-Nitrophenol	7600000	POS PARK	ug/kg	0	ug/kg				<100								<200	<100				<100	<100		<100					
Ethylbenzene	5705504.8	Commercial	ug/kg	0	ug/kg				<4	<4	<4	<4	<80		<4	<4	4110.0	<4	<4		<4	36.6		<40		<4		<4		
Styrene	3170000	Commercial	ug/kg	0	ug/kg				<10								<200	<10				<10	<10		<100					
n-Propylbenzene	3860000	Commercial	ug/kg	0	ug/kg				<10								692.0	<10				<10	108.0		<100					
n-Butylbenzene	26597.9	Commercial	ug/kg	0	ug/kg				<11								1160.0	<11				<11	564.0		<110					
2,4-Dimethylphenol	9180000	POS PARK	ug/kg	0	ug/kg				<100								<200	<100				<100	<100		<100					
4-Methylphenol	46000000	POS PARK	ug/kg	0	ug/kg				<100								<200	<100				<100	<100		<100					
1,4-Dichlorobenzene	4220000	Commercial	ug/kg	0	ug/kg				<100								<200	<100				<100	<100		<100					
1,2-Dichloroethane	671	Commercial	ug/kg	0	ug/kg				<5								<100	<5				<5	<5		<50					
1,3,5-Trimethylbenzene	39400	Commercial	ug/kg	3	ug/kg				21.9								7390.0	<8				17.2	1050.0		<80					
Bromobenzene	91500	Commercial	ug/kg	0	ug/kg				<10								<200	<10				<10	<10		<100					
Toluene VOC	56293712.79	Commercial	ug/kg	0	ug/kg				<7	<7	<7	<70		<7	<140		<7	<7				<7	<7		<70		<7		<7	
Chlorobenzene	55600	Commercial	ug/kg	0	ug/kg				<5								<100	<5				<5	<5		<50					
Phenol SVOC	7600000	POS PARK	ug/kg	0	ug/kg				<100								<200	<100				<100	<100		<100					
Bis(2-chloroethoxy)methane	956	Commercial	ug/kg	1	ug/kg				<100								<200	<100				<100	<100		<100					
Bis(2-ethylhexyl)phthalate	16600000	POS PARK	ug/kg	0	ug/kg				266.0								<200	<100				3080.0	<100		<100					
n-Diethylphthalate	20000000	POS PARK	ug/kg	0	ug/kg				<100								<200	<100				<100	<100		<100					
Hexachlorobenzene	28900	POS PARK	ug/kg	0	ug/kg				<100								<200	<100	<1000			<100	<100		<100					
1,2,4-Trichlorobenzene	215000	Commercial	ug/kg	0	ug/kg				<100								<200	<100				<100	<100		<100					
2,4-Dichlorophenol	977000	POS PARK	ug/kg	0	ug/kg				<100								<200	<100				<100	<100		<100					
2,4-Dinitrotoluene	928000	POS PARK	ug/kg	0	ug/kg				<100								<200	<100				<100	<100		<100					
Dibromochloromethane	1960	Commercial	ug/kg	0	ug/kg				<10								<200	<10				<10	<10		<100					
Tetrachloroethene	18600	Commercial	ug/kg	0	ug/kg				<5								<100	<5				<5	<5		195.0					
Dimethyl phthalate	2630000	POS PARK	ug/kg	0	ug/kg				<100								<200	<100				<100	<100		<100					
Dibenzofuran	10800	POS PARK	ug/kg	5	ug/kg				<100								<200	<100				<100	<100		<100					
sec-Butylbenzene	26597.8811	Commercial	ug/kg	0	ug/kg				<10								468.0	<10				<10	419.0		<100					
cis 1,2-Dichloroethene	13600	Commercial	ug/kg	0	ug/kg				<6								1340.0	<6				<6	<6		<60					
trans 1,2-Dichloroethene	20700	Commercial	ug/kg	0	ug/kg				<10								<200	<10				<10	<10		<100					
Perylene	10800000	POS PARK	ug/kg	0	ug/kg				<100																					
1,3-Dichlorobenzene	29900	Commercial	ug/kg	0	ug/kg				<100								<160	<100				<100	<100		<100					
Carbon Tetrachloride	2870	Commercial	ug/kg	0	ug/kg				<10								<200	<10				<10	<10		<100					
4-Chloro-3-methylphenol	46100000	POS PARK	ug/kg	0	ug/kg				<100								<200	<100				<100	<100		<100					
2,6-Dinitrotoluene	468000	POS PARK	ug/kg	0	ug/kg				<100								<200	<100				<100	<100		<100					
1,1,1,2-Tetrachloroethane	108000	Commercial	ug/kg	0	ug/kg				<10								<200	<10				<10	<10		<100					
Chloroform	99100	Commercial	ug/kg	0	ug/kg				<8								<160	<8				<8	<8		<80					
Hexachloroethane	20900000	Commercial	ug/kg	0	ug/kg				<100								<200	<100				<100	<100		<100					
Benzene VOC	26597.9	Commercial	ug/kg	0	ug/kg				<9	<9	<9	<90		<9	<180		<9	<9				<9	<9		<90		<9		<9	
1,1,1-Trichloroethane	660000	Commercial	ug/kg	0	ug/kg				<7								<140	<7				<7	<7		<70					
Barium	5770	POS PARK	mg/kg	0	mg/kg																									0.1
Chloromethane	956000	Commercial	ug/kg	0	ug/kg				<7								<140	<7				<7	<7		<70					
Chloroethane	904000000	Commercial	ug/kg	0	ug/kg				<10								<200	<10				<10	<10		<100					

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	AEC18-LF-TP269	AEC18-LF-TP270	AEC18-LF-TP270	AEC18-LF-TP270	AEC18-LF-TP272	AEC18-LF-TP272	AEC18-LF-TP272	AEC18-LF-TP273	AEC18-LF-TP273	AEC18-LF-TP273	AEC18-LF-TP274	AEC18-LF-TP274	AEC18-LF-TP274	AEC18-LF-TP274	AEC18-LF-TP275	AEC18-LF-TP275	AEC18-LF-TP275	AEC18-LF-TP276	AEC18-LF-TP276	AEC18-LF-TP276	AEC18-LF-TP276	AEC18-LF-WS201	AEC18-LF-WS201	AEC18-LF-WS203	
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Vinyl Chloride	59.4	Commercial	ug/kg	0	ug/kg	<6			<60			<120					<120	<6			<6	<6			<60					
Dichloromethane VOC	257000000	Commercial	ug/kg	0	ug/kg	47.3			<100			<200					<200	<10			43.9	93.3			<100					
Carbon Disulphide	11000000	Commercial	ug/kg	0	ug/kg	29.6			<70			<140					388.0	<7			24.2	39.3			<70					
Bromoform	714000	Commercial	ug/kg	0	ug/kg	<10			<100			<200					<200	<10			<10	<10			<100					
Bromodichloromethane	1960	Commercial	ug/kg	0	ug/kg	<7			<70			<140					<140	<7			<7	<7			<70					
1,1-Dichloroethane	263000	Commercial	ug/kg	0	ug/kg	<8			<80			<160					386.0	<8			<8	<8			<80					
1,1-Dichloroethene	24300	Commercial	ug/kg	0	ug/kg	<10			<100			<200					<200	<10			<10	<10			<100					
Isophorone	26597881.1	Commercial	ug/kg	0	ug/kg	<100			<500			<100					<200	<100			<100	<100			<100					
1,2-Dichloropropane	3130	Commercial	ug/kg	0	ug/kg	<10			<100			<200					<200	<10			<10	<10			<100					
1,1,2-Trichloroethane	89100	Commercial	ug/kg	0	ug/kg	<10			<100			<200					<200	<10			<10	<10			<100					
Trichloroethene	1230	Commercial	ug/kg	0	ug/kg	<9			<90			<180					240.0	<9			<9	<9			<90					
1,1,2,2-Tetrachloroethane	274000000	Commercial	ug/kg	0	ug/kg	<10			<100			<200					<200	<10			<10	<10			<100					
Diethyl phthalate	89300000	POS PARK	ug/kg	0	ug/kg	<100			<500			<100					<200	<100			<100	<100			<100					
n-Dibutylphthalate	2630000	POS PARK	ug/kg	0	ug/kg	<100			939.0			<100					4080.0	<100			428.0	<100			222.0					
Butylbenzyl phthalate SVOC	254000000	POS PARK	ug/kg	0	ug/kg	<100			<500			<100					14900.0	<100			<100	<100			<100					
Carbazole	10800	POS PARK	ug/kg	2	ug/kg	<100			<500			<100					<200	<100			<100	<100			<100					
1,2,3-Trichlorobenzene	102000	Commercial	ug/kg	0	ug/kg	<20			<200			<400					<400	<20			<20	<20			<200					
Hexachlorobutadiene	30700	Commercial	ug/kg	0	ug/kg	<100			<200			<100					<200	<100			<100	<100			<100					
Pentachlorophenol	113000	POS PARK	ug/kg	0	ug/kg	<100			<500			<100					<200	<100			<100	<100			<100					
2,4,6-Trichlorophenol	1010000	POS PARK	ug/kg	0	ug/kg	<100			<500			<100					<200	<100			<100	<100			<100					
2-Nitrophenol	7600000000	POS PARK	ug/kg	0	ug/kg	<100			<500			<100					<200	<100			<100	<100			<100					
2-Methylnaphthalene (SVOC) DEFAULT	193000	Commercial	ug/kg	2	ug/kg	<100			<500			<100					7960.0	<100			<100	<100			<100					
2-Chloronaphthalene	370000	Commercial	ug/kg	0	ug/kg	<100			<500			<100					<200	<100			<100	<100			<100					
o-Xylene	6603100.7	Commercial	ug/kg	0	ug/kg	<10	<10	<10	<100		<10	<200		<10	<10		5630.0	<10	<10		<10	112.0			<100		<10		<10	
2-Methylphenol	46100000	POS PARK	ug/kg	0	ug/kg	<100			<500			<100					<200	<100			<100	<100			<100					
1,2-Dichlorobenzene	2020000	Commercial	ug/kg	0	ug/kg	<10			<100			<100					1140.0	<10			<10	<10			<100					
2-Chlorophenol	1010000	POS PARK	ug/kg	0	ug/kg	<100			<500			<100					<200	<100			<100	<100			<100					
1,2,4-Trimethylbenzene	39400	Commercial	ug/kg	5	ug/kg	68.3			237.0			<180					13100.0	<9			48.4	3080.0			<90					
2,4,5-Trichlorophenol	1010000	POS PARK	ug/kg	0	ug/kg	<100			<500			<100					<200	<100			<100	<100			<100					
Isopropylbenzene	1300000	Commercial	ug/kg	0	ug/kg	<5			<50			<100					372.0	<5			<5	51.7			<50					
Nitrobenzene	26597881.1	Commercial	ug/kg	0	ug/kg	<100			<500			<100					<200	<100			<100	<100			<100					
4-Isopropyltoluene	1300000	Commercial	ug/kg	0	ug/kg	<10			<100			<200					912.0	<10			<10	434.0			<100					
m & p Xylene	5923262.7	Commercial	ug/kg	0	ug/kg	21.5	<10	<10	<100		<10	<200		<10	<10		14700.0	<10	<10		<10	181.0			<100		<10		<10	
Aro >C8-C9	7220	POS PARK	mg/kg	0	mg/kg																									
Aro >C9-C10	7220	POS PARK	mg/kg	0	mg/kg																									
Tributyltin SUBCON I2	42400000	POS PARK	ug/kg	0	ug/kg																									
Atrazine SUBCON Alcontrol	379000000	POS Maintenance	ug/kg	0	ug/kg																									
Aldrin SUBCON Alcontrol	7800000	POS PARK	ug/kg	0	ug/kg																<1000									
alpha-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	46500000	POS PARK	ug/kg	0	ug/kg																<1000									
beta-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	13300000	POS PARK	ug/kg	0	ug/kg																<1000									
Endosulphan II	1960000000	POS Maintenance	ug/kg	0	ug/kg																<1000									
Dieldrin SUBCON Alcontrol	12900000	POS PARK	ug/kg	0	ug/kg																<1000									
Dichlorvos	26000000	POS PARK	ug/kg	0	ug/kg																<1000									
Endosulphan I	1950000000	POS Maintenance	ug/kg	0	ug/kg																<1000									
Aro >C35-C44	7820	POS PARK	mg/kg	0	mg/kg																									
Ali >C35-C44	455000	POS PARK	mg/kg	0	mg/kg																									
Anthracene SVOC	149000000	POS PARK	ug/kg	0	ug/kg	<100	247.0	1950.0	<500		97.9	<100		75.9	<16		1480.0	<100	889.0		<100	<100			<100		1200.0		40.0	
Pyrene SVOC	15100000	POS PARK	ug/kg	0	ug/kg	265.0	2190.0	9700.0	1760.0		368.0	187.0		1150.0	137.0		3320.0	<100	4160.0		152.0	294.0			363.0		5540.0		196.0	
Benzo(ghi)perylene SVOC	612000	POS Maintenance	ug/kg	0	ug/kg	<100	1310.0	2580.0	769.0		93.6	140.0		1170.0	111.0		689.0	<100	1060.0		<100	<240			222.0		1810.0		88.6	
Indeno(1,2,3-cd)pyrene SVOC	44000	POS Maintenance	ug/kg	1	ug/kg	<100	1160.0	2230.0	830.0		81.0	129.0		917.0	119.0		492.0	<100	1050.0		<100	<180			229.0		1690.0		84.9	
Benzo(b)fluoranthene SVOC	13200	POS PARK	ug/kg	7	ug/kg	<100	2790.0	6160.0	12900.0		247.0	152.0		1950.0	188.0		812.0	<100	1770.0		<100	247.0			316.0		2780.0		164.0	
Fluoranthene SVOC	6300000	POS PARK	ug/kg	0	ug/kg																									

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	AEC18-LF-TP269	AEC18-LF-TP270	AEC18-LF-TP270	AEC18-LF-TP270	AEC18-LF-TP272	AEC18-LF-TP272	AEC18-LF-TP272	AEC18-LF-TP273	AEC18-LF-TP273	AEC18-LF-TP273	AEC18-LF-TP274	AEC18-LF-TP274	AEC18-LF-TP274	AEC18-LF-TP274	AEC18-LF-TP275	AEC18-LF-TP275	AEC18-LF-TP275	AEC18-LF-TP276	AEC18-LF-TP276	AEC18-LF-TP276	AEC18-LF-TP276	AEC18-LF-WS201	AEC18-LF-WS201	AEC18-LF-WS203	
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Benzo(k)fluoranthene SVOC	114000	POS Maintenance	ug/kg	0	ug/kg	<100	920.0	2060.0	720.0		78.3	117.0		660.0	62.0		529.0	<100	606.0		<100	<140		137.0		1090.0		60.3		
Acenaphthylene SVOC	28900000	POS PARK	ug/kg	0	ug/kg	<100	81.8	104.0	<500		<12	<100		45.6	<12		431.0	<100	108.0		<100	<100		<100		361.0		21.1		
Chrysene SVOC	91000	POS Maintenance	ug/kg	1	ug/kg	<100	1040.0	3410.0	1000.0		149.0	117.0		880.0	90.0		1240.0	<100	1410.0		<100	143.0		224.0		2420.0		109.0		
Benzo(a)pyrene SVOC	10800	POS PARK	ug/kg	8	ug/kg	<100	2110.0	4550.0	8060.0		146.0	117.0		1350.0	137.0		750.0	<100	1550.0		<100	196.0		291.0		2450.0		113.0		
Dibenzo(ah)anthracene SVOC	1150	POS PARK	ug/kg	10	ug/kg	<100	256.0	520.0	1170.0		<23	<100		270.0	<23		<200	<100	188.0		<100	<100		<100		294.0		<23		
Benzo(a)anthracene SVOC	48800	POS PARK	ug/kg	2	ug/kg	<100	1440.0	4650.0	12100.0		153.0	117.0		820.0	86.5		1180.0	<100	1590.0		<100	<140		239.0		2450.0		94.6		
Acenaphthene SVOC	28900000	POS PARK	ug/kg	0	ug/kg	<100	60.2	691.0	<500		134.0	<100		21.3	<8		1920.0	<100	995.0		<100	<100		<100		757.0		108.0		
Phenanthrene SVOC	6170000	POS PARK	ug/kg	0	ug/kg	227.0	558.0	5830.0	31700.0		323.0	115.0		162.0	27.6		5230.0	<100	3380.0		<100	240.0		152.0		3710.0		216.0		
Fluorene SVOC	19600000	POS PARK	ug/kg	0	ug/kg	<100	48.3	599.0	4290.0		97.3	<100		13.6	<10		2260.0	<100	692.0		<100	<100		<10		503.0		102.0		
Naphthalene SVOC	193000	Commercial	ug/kg	1	ug/kg	<100	18.0	43.5	<130		<9	<100		<9	<9		6780.0	<100	476.0		<100	<100		<100		261.0		41.6		
Xylenols	9180	POS PARK	mg/kg	0	mg/kg	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.075	<0.015	<0.015	<0.015	10.0	0.0	0.8		<0.015	0.0	0.0	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Cresols	46100	POS PARK	mg/kg	0	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	0.0	2.6	0.0	0.3		0.0	0.0	0.0	<0.01	<0.01	<0.01	0.0	<0.01	<0.01	<0.01
Tributyltin	42400	POS PARK	mg/kg	0	mg/kg														<0.02											
Methyl tert-butyl ether (MTBE)	7480000	Commercial	ug/kg	0	ug/kg	<10	<10	<100		<10	<200						<200	<10			<10	<10		<100		<10				
Aromatics >C6-7	27000000	Commercial	ug/kg	0	ug/kg	<10	<10	<10		<10	<10						<100	<10			<10	<50		<10		<10				
Aromatics >C7-8	56293712.8	Commercial	ug/kg	0	ug/kg	<10	<10	<10		<10	<10						<100	<10			<10	<50		<10		<10				
Aromatics >C8-10	3460000	Commercial	ug/kg	0	ug/kg	386.0	<10	155.0		308.0	214.0						38100.0	35.8			1070.0	5690.0		10.5		125.0				
Aromatics >C10-12	9240000	POS PARK	ug/kg	0	ug/kg	391.0	<10	361.0		355.0	309.0						59300.0	52.5			1390.0	14400.0		<10		156.0				
Aromatics >C12-16	10200000	POS PARK	ug/kg	0	ug/kg	<100	6290.0	30800.0		520.0	1960.0						285000.0	<100			334.0	<100		1080.0		3530.0				
Aromatics >C16-21	7630000	POS PARK	ug/kg	0	ug/kg	6720.0	69300.0	248000.0		3460.0	11200.0						968000.0	760.0			68100.0	33900.0		5250.0		16200.0				
Aromatics >C21-35	7820000	POS PARK	ug/kg	1	ug/kg	72500.0	413000.0	438000.0		13100.0	40600.0						3450000.0	4350.0			195000.0	104000.0		44700.0		85800.0				
Aromatics >C35-44	7820000	POS PARK	ug/kg	0	ug/kg	3500.0	166000.0	77600.0		2080.0	12500.0						503000.0	438.0			7780.0	4700.0		15400.0		34100.0				
Aliphatics >C5-6	3190000	Commercial	ug/kg	0	ug/kg	34.8	<10	<10		21.9	16.4						1090.0	10.2			29.0	76.1		<10		18.1				
Aliphatics >C6-8	7780000	Commercial	ug/kg	0	ug/kg	146.0	<10	15.9		134.0	72.5						13500.0	39.7			92.5	273.0		21.1		60.6				
Aliphatics >C8-10	2000000	Commercial	ug/kg	1	ug/kg	578.0	<10	233.0		462.0	321.0						57100.0	52.5			1600.0	8530.0		15.2		188.0				
Aliphatics >C10-12	9690000	Commercial	ug/kg	0	ug/kg	586.0	<10	543.0		531.0	463.0						88900.0	79.4			2080.0	21700.0		11.7		233.0				
Aliphatics >C12-16	24700000	POS PARK	ug/kg	0	ug/kg	1150.0	10400.0	113000.0		1330.0	1560.0						599000.0	<100			31900.0	18800.0		<100		4430.0				
Aliphatics >C16-21	45500000	POS PARK	ug/kg	0	ug/kg	15200.0	34200.0	520000.0		2070.0	5060.0						2890000.0	2240.0			205000.0	94400.0		5290.0		14900.0				
Aliphatics >C21-35	45500000	POS PARK	ug/kg	0	ug/kg	188000.0	121000.0	977000.0		304.0	27200.0						6900000.0	7430.0			575000.0	244000.0		46900.0		92400.0				
Aliphatics >C35-44	45500000	POS PARK	ug/kg	0	ug/kg	19500.0	47500.0	112000.0		<100	3670.0						743000.0	<100			57800.0	35900.0		8050.0		47200.0				
Trivalent Chromium	33000	POS PARK	mg/kg	0	mg/kg																								<0.3	
Molybdenum	2890	POS PARK	mg/kg	0	mg/kg																								<0.03	
4-Nitroaniline	10800	POS PARK	ug/kg	0	ug/kg	<100		<500		<100							<200	<100			<100	<100		<100						
Azobenzene	10800	POS PARK	ug/kg	0	ug/kg	<100		<500		<100							<200	<100			<100	<100		<100						
4-Chloroaniline	10800000	POS PARK	ug/kg	0	ug/kg	<100		<500		<100							<200	<100			<100	<100		<100						
2-Nitroaniline	10800	POS PARK	ug/kg	0	ug/kg	<100		<500		<100							<200	<100			<100	<100		<100						

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	AEC18-LF-WS203	AEC18-LF-WS204	AEC18-LF-WS205A	AEC18-LF-WS205A	AEC18-LF-WS206A	AEC18-LF-WS206A	AEC18-LF-WS207	AEC18-LF-WS207	AEC18-LF-WS207	AEC18-LF-WS208A	AEC18-LF-WS208A	AEC18-LF-WS209	AEC18-LF-WS209	AEC18-LF-WS209	AEC18-LF-WS210	AEC18-LF-WS210	AEC18-LF-WS210	AEC18-LF-WS211	AEC18-LF-WS211	AEC18-LF-WS212	AEC18-LF-WS212	AEC18-LF-WS213	AEC18-LF-WS213	AEC18-LF-WS214
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Ethylbenzene	5705.5	Commercial	mg/kg	0	mg/kg																								
Toluene	56293.7	Commercial	mg/kg	0	mg/kg																								
Anthracene	149000	POS PARK	mg/kg	0	mg/kg																								
Pyrene	15100	POS PARK	mg/kg	0	mg/kg																								
Xylene	6603.1	Commercial	mg/kg	0	mg/kg																								
Benzo (g,h,i) perylene	612	POS Maintenance	mg/kg	0	mg/kg																								
Indeno(1,2,3-cd)pyrene	44	POS Maintenance	mg/kg	0	mg/kg																								
Benzo(b)fluoranthene	13.2	POS PARK	mg/kg	4	mg/kg																								
Fluoranthene	6300	POS PARK	mg/kg	0	mg/kg																								
Benzo(k)fluoranthene	114	POS Maintenance	mg/kg	0	mg/kg																								
Acenaphthylene	28900	POS PARK	mg/kg	0	mg/kg																								
Chrysene	91	POS Maintenance	mg/kg	0	mg/kg																								
Benzo(a)pyrene	10.8	POS PARK	mg/kg	4	mg/kg																								
Dibenz-a-h-anthracene	1.15	POS PARK	mg/kg	5	mg/kg																								
Benzo(a)anthracene	48.8	POS PARK	mg/kg	0	mg/kg																								
Cyanide	24	POS PARK	mg/kg	5	mg/kg	6.6	<1	<1	3.6	<1	12.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Benzene	26.60	Commercial	mg/kg	0	mg/kg																								
Lead	1300	POS PARK	mg/kg	13	mg/kg	172.0	45.4	100.0	49.3	95.7	827.0	17.9	171.0	106.0	42.1	33.7	83.9	36.4	40.6	116.0	25.4	33.4	18.9	345.0	132.0	58.6	66.1	84.1	22.7
Mercury	244	POS PARK	mg/kg	0	mg/kg	0.1	<0.14	<0.14	0.3	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14
Nickel	804	POS PARK	mg/kg	8	mg/kg	20.5	23.9	29.5	19.8	17.1	126.0	26.9	109.0	25.0	20.4	20.0	20.8	29.5	9.4	39.2	17.3	13.7	19.5	124.0	38.5	34.6	29.8	24.0	30.9
Antimony	3290	POS PARK	mg/kg	0	mg/kg	5.4	<0.6	1.0	<0.6	1.4	6.7	<0.6	1.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	3.7	<0.6	<0.6	<0.6	1.7	0.8	7.2	<0.6	<0.6	<0.6
Arsenic	168	POS PARK	mg/kg	0	mg/kg	12.3	13.9	14.0	8.9	9.2	6.2	18.2	16.0	16.2	12.3	15.5	15.1	13.5	7.5	24.4	17.5	11.5	20.3	13.4	18.8	10.1	29.5	12.6	22.7
Beryllium	11.7	Commercial	mg/kg	1	mg/kg	0.7	1.7	1.6	0.3	0.7	0.3	0.8	0.6	1.8	1.1	0.4	1.1	1.2	0.4	2.0	0.8	0.5	0.8	2.1	1.6	0.8	1.2	0.8	1.4
Boron	46200	POS PARK	mg/kg	0	mg/kg	4.0	<1	2.6	2.7	1.7	3.7	<1	2.8	4.8	<1	1.6	<1	<1	<1	<1	1.4	1.6	<1	4.2	2.8	2.2	2.5	2.4	<1
Cadmium	190	Commercial	mg/kg	0	mg/kg	0.6	0.2	0.6	0.3	0.2	0.4	0.0	2.9	0.5	0.1	<0.02	0.4	0.1	0.0	<0.02	<0.02	0.1	0.0	0.6	0.4	3.6	<0.02	0.3	0.2
Chromium	8570	Commercial	mg/kg	1	mg/kg	17.9	18.9	21.6	7.7	13.0	146.0	19.1	14.5	22.7	17.2	3.4	11.0	17.8	8.5	20.3	25.6	24.5	11.0	31.5	18.4	16.0	5.4	67.8	31.5
Copper	44400	POS PARK	mg/kg	2	mg/kg	109.0	40.0	43.7	42.7	59.3	53.2	18.9	66.7	65.4	28.5	16.5	30.6	22.9	7.5	44.2	15.9	14.3	17.7	57.0	92.1	30.3	418.0	39.2	19.4
Vanadium	2820	POS Maintenance	mg/kg	0	mg/kg	22.5	46.1	41.5	15.0	30.6	12.9	49.4	18.4	51.6	41.4	39.2	30.9	38.4	27.5	50.7	61.9	46.3	35.1	49.2	45.1	26.9	65.5	33.3	50.1
Zinc	173000	POS PARK	mg/kg	0	mg/kg	220.0	91.9	202.0	181.0	163.0	828.0	77.6	168.0	198.0	111.0	147.0	185.0	114.0	2210.0	197.0	57.5	62.3	69.5	215.0	333.0	107.0	136.0	155.0	82.7
Selenium	1850	POS PARK	mg/kg	0	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.5
Acenaphthene	28900	POS PARK	mg/kg	0	mg/kg																								
Phenanthrene	6170	POS PARK	mg/kg	0	mg/kg																								
Fluorene	19600	POS PARK	mg/kg	0	mg/kg																								
Napthalene	193	Commercial	mg/kg	0	mg/kg																								
Phenol (Monohydric)	7600	POS Maintenance	mg/kg	0	mg/kg		<0.035	<0.035	0.1	<0.035		<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035
Aromatics >C7-8	56293.7	Commercial	mg/kg	0	mg/kg																								
Aromatics >C8-10	3460	Commercial	mg/kg	0	mg/kg																								
Aromatics >C10-12	9240	POS PARK	mg/kg	0	mg/kg																								
Aromatics >C12-16	10200	POS PARK	mg/kg	0	mg/kg																								
Aromatics >C16-21	7630	POS PARK	mg/kg	0	mg/kg																								
Aromatics >C21-35	7820	POS PARK	mg/kg	0	mg/kg																								
Aliphatics >C5-6	3190	Commercial	mg/kg	0	mg/kg																								
Aliphatics >C6-8	7780	Commercial	mg/kg	0	mg/kg																								
Aliphatics >C8-10	2000	Commercial	mg/kg	0	mg/kg																								
Aliphatics >C10-12	9690	Commercial	mg/kg	0	mg/kg																								
Aliphatics >C12-16	24700	POS PARK	mg/kg	0	mg/kg																								
Aliphatics >C16-21	455000	POS PARK	mg/kg	0	mg/kg																								
Aliphatics >C21-35	455000	POS PARK	mg/kg	0	mg/kg																								
Aromatics >C5-7	27	Commercial	mg/kg	0	mg/kg																								
4-Nitroaniline	10.8	POS PARK	mg/kg	0	mg/kg																								
4-Nitrophenol	7600	POS PARK	mg/kg	0	mg/kg																								
Styrene	3170	Commercial	mg/kg	0	mg/kg																								
Azobenzene	10.8	POS PARK	mg/kg	0	mg/kg																								

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	AEC18-LF-WS203	AEC18-LF-WS204	AEC18-LF-WS205A	AEC18-LF-WS205A	AEC18-LF-WS206A	AEC18-LF-WS206A	AEC18-LF-WS207	AEC18-LF-WS207	AEC18-LF-WS207	AEC18-LF-WS208A	AEC18-LF-WS208A	AEC18-LF-WS209	AEC18-LF-WS209	AEC18-LF-WS209	AEC18-LF-WS210	AEC18-LF-WS210	AEC18-LF-WS210	AEC18-LF-WS211	AEC18-LF-WS211	AEC18-LF-WS212	AEC18-LF-WS212	AEC18-LF-WS213	AEC18-LF-WS213	AEC18-LF-WS214
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
n-propylbenzene	3860	Commercial	mg/kg	0	mg/kg																								
n-Butylbenzene	26.598	Commercial	mg/kg	0	mg/kg																								
2,4-Dimethylphenol	9180	POS PARK	mg/kg	0	mg/kg																								
3/4 Methylphenol	46000	POS PARK	mg/kg	0	mg/kg																								
1,4-Dichlorobenzene	4220	Commercial	mg/kg	0	mg/kg																								
1,2-Dichloroethane	0.671	Commercial	mg/kg	0	mg/kg																								
1,3,5-Trimethylbenzene	39.4	Commercial	mg/kg	0	mg/kg																								
Bromobenzene	91.5	Commercial	mg/kg	0	mg/kg																								
Chlorobenzene	55.6	Commercial	mg/kg	0	mg/kg																								
Phenol	7600	POS PARK	mg/kg	0	mg/kg		<0.01	<0.01	0.0	<0.01		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.0	<0.01	<0.01
Bis(2-chloroethoxy)methane	0.956	Commercial	mg/kg	0	mg/kg																								
Bis(2-ethylhexyl)phthalate	16600	POS PARK	mg/kg	0	mg/kg																								
Di-N-Octyl Phthalate	20000	POS PARK	mg/kg	0	mg/kg																								
Hexachlorobenzene (HCB)	28.9	POS PARK	mg/kg	0	mg/kg																								
1,2,4-Trichlorobenzene	215	Commercial	mg/kg	0	mg/kg																								
2,4-Dichlorophenol	977	POS PARK	mg/kg	0	mg/kg																								
2,4-Dinitrotoluene	928	POS PARK	mg/kg	0	mg/kg																								
Dibromochloromethane	1.96	Commercial	mg/kg	0	mg/kg																								
Tetrachloroethene	18.6	Commercial	mg/kg	0	mg/kg																								
Dimethylphthalate	2630	POS PARK	mg/kg	0	mg/kg																								
Dibenzofuran	10.8	POS PARK	mg/kg	0	mg/kg																								
Sec-Butylbenzene	26.6	Commercial	mg/kg	0	mg/kg																								
cis-1,2-Dichloroethene	13.6	Commercial	mg/kg	0	mg/kg																								
trans-1,2-Dichloroethene	20.7	Commercial	mg/kg	0	mg/kg																								
Methyl tert-butyl ether (MTBE)	7480	Commercial	mg/kg	0	mg/kg																								
1,3-Dichlorobenzene	29.9	Commercial	mg/kg	0	mg/kg																								
Tetrachloromethane (Carbon Tetra Chloride)	2.87	Commercial	mg/kg	0	mg/kg																								
2,3,4,6-Tetrachlorophenol	1000	POS PARK	mg/kg	0	mg/kg																								
4-Chloro-3-Methylphenol	46100	POS PARK	mg/kg	0	mg/kg																								
2,6-Dinitrotoluene	468	POS PARK	mg/kg	0	mg/kg																								
1,1,1,2-Tetrachloroethane	108	Commercial	mg/kg	0	mg/kg																								
Chloroform	99.1	Commercial	mg/kg	0	mg/kg																								
1,1,1-Trichloroethane	660	Commercial	mg/kg	0	mg/kg																								
Chloroethene	0.0594	Commercial	mg/kg	0	mg/kg																								
Tribromomethane	714	Commercial	mg/kg	0	mg/kg																								
Bromodichloromethane	1.96	Commercial	mg/kg	0	mg/kg																								
1,1-Dichloroethane	263	Commercial	mg/kg	0	mg/kg																								
1,1-Dichloroethene	24.3	Commercial	mg/kg	0	mg/kg																								
1,2-Dichloropropane	3.13	Commercial	mg/kg	0	mg/kg																								
1,1,2-Trichloroethane	89.1	Commercial	mg/kg	0	mg/kg																								
Trichloroethene	1.23	Commercial	mg/kg	0	mg/kg																								
Diethylphthalate	89300	POS PARK	mg/kg	0	mg/kg																								
Di-N-Butyl Phthalate	2630	POS PARK	mg/kg	0	mg/kg																								
Butylbenzylphthalate	254000	POS PARK	mg/kg	0	mg/kg																								
Carbazole	10.8	POS PARK	mg/kg	0	mg/kg																								
1,2,3 Trichlorobenzene	102	Commercial	mg/kg	0	mg/kg																								
Hexachlorobutadiene (HCBd)	30.7	Commercial	mg/kg	0	mg/kg																								
Pentachlorophenol (PCP)	113	POS PARK	mg/kg	0	mg/kg																								
2,4,6-Trichlorophenol	1010	POS PARK	mg/kg	0	mg/kg																								
2-Nitroaniline	10.8	POS PARK	mg/kg	0	mg/kg																								
2-Methylnaphthalene	193	Commercial	mg/kg	0	mg/kg																								
2-Chloronaphthalene	370	Commercial	mg/kg	0	mg/kg																								
2,3,5,6-Tetrachlorophenol	1000	POS PARK	mg/kg	0	mg/kg																								

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	AEC18-LF-WS203	AEC18-LF-WS204	AEC18-LF-WS205A	AEC18-LF-WS205A	AEC18-LF-WS206A	AEC18-LF-WS206A	AEC18-LF-WS207	AEC18-LF-WS207	AEC18-LF-WS207	AEC18-LF-WS208A	AEC18-LF-WS208A	AEC18-LF-WS209	AEC18-LF-WS209	AEC18-LF-WS209	AEC18-LF-WS210	AEC18-LF-WS210	AEC18-LF-WS210	AEC18-LF-WS211	AEC18-LF-WS211	AEC18-LF-WS212	AEC18-LF-WS212	AEC18-LF-WS213	AEC18-LF-WS213	AEC18-LF-WS214
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
O-Xylene	6603.1	Commercial	mg/kg	0	mg/kg																								
2-Methylphenol	46100	POS PARK	mg/kg	0	mg/kg																								
1,2-Dichlorobenzene	2020	Commercial	mg/kg	0	mg/kg																								
2-Chlorophenol	1010	POS PARK	mg/kg	0	mg/kg																								
1,2,4-Trimethylbenzene	39.4	Commercial	mg/kg	0	mg/kg																								
2,4,5-Trichlorophenol	1010	POS PARK	mg/kg	0	mg/kg																								
Isopropylbenzene	1300	Commercial	mg/kg	0	mg/kg																								
4-Isopropyltoluene	1300	Commercial	mg/kg	0	mg/kg																								
m,p xylenes	5923.3	Commercial	mg/kg	0	mg/kg																								
Chromium - Hexavalent	220	POS PARK	mg/kg	0	mg/kg											<0.6													
Cyanide Free	168	Commercial	mg/kg	0	mg/kg																					<1			
Complex Cyanide	3460	POS PARK	mg/kg	0	mg/kg																					2.0			
4-Nitrophenol	7600000	POS PARK	ug/kg	0	ug/kg						<1000														<200				
Ethylbenzene	5705504.8	Commercial	ug/kg	0	ug/kg	6.8		94.8		12.4	<4		<4		<4			211.0		<4	<4				246.0				<4
Styrene	3170000	Commercial	ug/kg	0	ug/kg						<10															<100			
n-Propylbenzene	3860000	Commercial	ug/kg	0	ug/kg						90.0															<100			
n-Butylbenzene	26597.9	Commercial	ug/kg	0	ug/kg						<11															<110			
2,4-Dimethylphenol	9180000	POS PARK	ug/kg	0	ug/kg						<1000															<200			
4-Methylphenol	46000000	POS PARK	ug/kg	0	ug/kg						<1000															<200			
1,4-Dichlorobenzene	4220000	Commercial	ug/kg	0	ug/kg						2860.0															<200			
1,2-Dichloroethane	671	Commercial	ug/kg	0	ug/kg						<5															<50			
1,3,5-Trimethylbenzene	39400	Commercial	ug/kg	3	ug/kg						416.0															<80			
Bromobenzene	91500	Commercial	ug/kg	0	ug/kg						<10															<100			
Toluene VOC	56293712.79	Commercial	ug/kg	0	ug/kg	<7		10.8		<7	<7		<7		<7			<7		<7	<7				<70				<7
Chlorobenzene	55600	Commercial	ug/kg	0	ug/kg						<5															<50			
Phenol SVOC	7600000	POS PARK	ug/kg	0	ug/kg						2430.0															<200			
Bis(2-chloroethoxy)methane	956	Commercial	ug/kg	1	ug/kg						<1000															<200			
Bis(2-ethylhexyl)phthalate	16600000	POS PARK	ug/kg	0	ug/kg						707000.0															1290.0			
n-Diethylphthalate	20000000	POS PARK	ug/kg	0	ug/kg						<1000															282.0			
Hexachlorobenzene	28900	POS PARK	ug/kg	0	ug/kg						<1000					<50										<200			
1,2,4-Trichlorobenzene	215000	Commercial	ug/kg	0	ug/kg						<1000															<200			
2,4-Dichlorophenol	977000	POS PARK	ug/kg	0	ug/kg						<1000															<200			
2,4-Dinitrotoluene	928000	POS PARK	ug/kg	0	ug/kg						<1000															<200			
Dibromochloromethane	1960	Commercial	ug/kg	0	ug/kg						<10															<100			
Tetrachloroethene	18600	Commercial	ug/kg	0	ug/kg						<5															<50			
Dimethyl phthalate	2630000	POS PARK	ug/kg	0	ug/kg						<1000															<200			
Dibenzofuran	10800	POS PARK	ug/kg	5	ug/kg						<1000															3930.0			
sec-Butylbenzene	26597.8811	Commercial	ug/kg	0	ug/kg						16.4															<100			
cis 1,2-Dichloroethene	13600	Commercial	ug/kg	0	ug/kg						<6															<60			
trans 1,2-Dichloroethene	20700	Commercial	ug/kg	0	ug/kg						<10															<100			
Perylene	10800000	POS PARK	ug/kg	0	ug/kg																								
1,3-Dichlorobenzene	29900	Commercial	ug/kg	0	ug/kg						<1000															<200			
Carbon Tetrachloride	2870	Commercial	ug/kg	0	ug/kg						<10															<100			
4-Chloro-3-methylphenol	46100000	POS PARK	ug/kg	0	ug/kg						<1000															<200			
2,6-Dinitrotoluene	468000	POS PARK	ug/kg	0	ug/kg						<1000															<200			
1,1,1,2-Tetrachloroethane	108000	Commercial	ug/kg	0	ug/kg						<10															<100			
Chloroform	99100	Commercial	ug/kg	0	ug/kg						<8															<80			
Hexachloroethane	20900000	Commercial	ug/kg	0	ug/kg						<1000															<200			
Benzene VOC	26597.9	Commercial	ug/kg	0	ug/kg	<9		<9		<9	<9		<9		<9			<9		<9	<9				<90				<9
1,1,1-Trichloroethane	660000	Commercial	ug/kg	0	ug/kg						<7															<70			
Barium	5770	POS PARK	mg/kg	0	mg/kg																								
Chloromethane	956000	Commercial	ug/kg	0	ug/kg						<7															<70			
Chloroethane	904000000	Commercial	ug/kg	0	ug/kg						<10															<100			

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	AEC18-LF-WS203	AEC18-LF-WS204	AEC18-LF-WS205A	AEC18-LF-WS205A	AEC18-LF-WS206A	AEC18-LF-WS206A	AEC18-LF-WS207	AEC18-LF-WS207	AEC18-LF-WS207	AEC18-LF-WS208A	AEC18-LF-WS208A	AEC18-LF-WS209	AEC18-LF-WS209	AEC18-LF-WS209	AEC18-LF-WS210	AEC18-LF-WS210	AEC18-LF-WS210	AEC18-LF-WS211	AEC18-LF-WS211	AEC18-LF-WS212	AEC18-LF-WS212	AEC18-LF-WS213	AEC18-LF-WS213	AEC18-LF-WS214
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Vinyl Chloride	59.4	Commercial	ug/kg	0	ug/kg																								
Dichloromethane VOC	257000000	Commercial	ug/kg	0	ug/kg																								
Carbon Disulphide	11000000	Commercial	ug/kg	0	ug/kg																								
Bromoform	714000	Commercial	ug/kg	0	ug/kg																								
Bromodichloromethane	1960	Commercial	ug/kg	0	ug/kg																								
1,1-Dichloroethane	263000	Commercial	ug/kg	0	ug/kg																								
1,1-Dichloroethene	24300	Commercial	ug/kg	0	ug/kg																								
Isophorone	26597881.1	Commercial	ug/kg	0	ug/kg																								
1,2-Dichloropropane	3130	Commercial	ug/kg	0	ug/kg																								
1,1,2-Trichloroethane	89100	Commercial	ug/kg	0	ug/kg																								
Trichloroethene	1230	Commercial	ug/kg	0	ug/kg																								
1,1,2,2-Tetrachloroethane	274000000	Commercial	ug/kg	0	ug/kg																								
Diethyl phthalate	89300000	POS PARK	ug/kg	0	ug/kg																								
n-Dibutylphthalate	2630000	POS PARK	ug/kg	0	ug/kg																								
Butylbenzyl phthalate SVOC	254000000	POS PARK	ug/kg	0	ug/kg																								
Carbazole	10800	POS PARK	ug/kg	2	ug/kg																								
1,2,3-Trichlorobenzene	102000	Commercial	ug/kg	0	ug/kg																								
Hexachlorobutadiene	30700	Commercial	ug/kg	0	ug/kg																								
Pentachlorophenol	113000	POS PARK	ug/kg	0	ug/kg																								
2,4,6-Trichlorophenol	1010000	POS PARK	ug/kg	0	ug/kg																								
2-Nitrophenol	7600000000	POS PARK	ug/kg	0	ug/kg																								
2-Methylnaphthalene (SVOC) DEFAULT	193000	Commercial	ug/kg	2	ug/kg																								
2-Chloronaphthalene	370000	Commercial	ug/kg	0	ug/kg																								
o-Xylene	6603100.7	Commercial	ug/kg	0	ug/kg																								
2-Methylphenol	46100000	POS PARK	ug/kg	0	ug/kg																								
1,2-Dichlorobenzene	2020000	Commercial	ug/kg	0	ug/kg																								
2-Chlorophenol	1010000	POS PARK	ug/kg	0	ug/kg																								
1,2,4-Trimethylbenzene	39400	Commercial	ug/kg	5	ug/kg																								
2,4,5-Trichlorophenol	1010000	POS PARK	ug/kg	0	ug/kg																								
Isopropylbenzene	1300000	Commercial	ug/kg	0	ug/kg																								
Nitrobenzene	26597881.1	Commercial	ug/kg	0	ug/kg																								
4-Isopropyltoluene	1300000	Commercial	ug/kg	0	ug/kg																								
m & p Xylene	5923262.7	Commercial	ug/kg	0	ug/kg																								
Aro >C8-C9	7220	POS PARK	mg/kg	0	mg/kg																								
Aro >C9-C10	7220	POS PARK	mg/kg	0	mg/kg																								
Tributyltin SUBCON I2	42400000	POS PARK	ug/kg	0	ug/kg																								
Atrazine SUBCON Alcontrol	379000000	POS Maintenance	ug/kg	0	ug/kg																								
Aldrin SUBCON Alcontrol	7800000	POS PARK	ug/kg	0	ug/kg																								
alpha-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	46500000	POS PARK	ug/kg	0	ug/kg																								
beta-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	13300000	POS PARK	ug/kg	0	ug/kg																								
Endosulphan II	1960000000	POS Maintenance	ug/kg	0	ug/kg																								
Dieldrin SUBCON Alcontrol	12900000	POS PARK	ug/kg	0	ug/kg																								
Dichlorvos	26000000	POS PARK	ug/kg	0	ug/kg																								
Endosulphan I	1950000000	POS Maintenance	ug/kg	0	ug/kg																								
Aro >C35-C44	7820	POS PARK	mg/kg	0	mg/kg																								
Ali >C35-C44	455000	POS PARK	mg/kg	0	mg/kg																								
Anthracene SVOC	149000000	POS PARK	ug/kg	0	ug/kg																								
Pyrene SVOC	15100000	POS PARK	ug/kg	0	ug/kg																								
Benzo(ghi)perylene SVOC	612000	POS Maintenance	ug/kg	0	ug/kg																								
Indeno(1,2,3-cd)pyrene SVOC	44000	POS Maintenance	ug/kg	1	ug/kg																								
Benzo(b)fluoranthene SVOC	13200	POS PARK	ug/kg	7	ug/kg																								
Fluoranthene SVOC	6300000	POS PARK	ug/kg	0	ug/kg																								

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	AEC18-LF-WS203	AEC18-LF-WS204	AEC18-LF-WS205A	AEC18-LF-WS205A	AEC18-LF-WS206A	AEC18-LF-WS206A	AEC18-LF-WS207	AEC18-LF-WS207	AEC18-LF-WS207	AEC18-LF-WS208A	AEC18-LF-WS208A	AEC18-LF-WS209	AEC18-LF-WS209	AEC18-LF-WS209	AEC18-LF-WS210	AEC18-LF-WS210	AEC18-LF-WS210	AEC18-LF-WS211	AEC18-LF-WS211	AEC18-LF-WS212	AEC18-LF-WS212	AEC18-LF-WS213	AEC18-LF-WS213	AEC18-LF-WS214
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Benzo(k)fluoranthene SVOC	114000	POS Maintenance	ug/kg	0	ug/kg	66.2			1110.0		<1000	<14		34.4		73.4			317.0		33.7	140.0		7760.0					<14
Acenaphthylene SVOC	28900000	POS PARK	ug/kg	0	ug/kg	<12			99.3		<1000	<12		<12		18.9			76.0		<12	30.7		7560.0					<12
Chrysene SVOC	91000	POS Maintenance	ug/kg	1	ug/kg	232.0			3760.0		<1000	25.0		64.8		181.0			625.0		57.2	276.0		8700.0					<10
Benzo(a)pyrene SVOC	10800	POS PARK	ug/kg	8	ug/kg	132.0			2490.0		<1000	31.3		70.9		127.0			674.0		51.0	287.0		9990.0					<15
Dibenzo(ah)anthracene SVOC	1150	POS PARK	ug/kg	10	ug/kg	<23			287.0		<1000	<23		<23		<23			91.0		<23	43.3		1010.0					<23
Benzo(a)anthracene SVOC	48800	POS PARK	ug/kg	2	ug/kg	161.0			3610.0		<1000	27.1		62.8		164.0			803.0		53.2	265.0		10600.0					<14
Acenaphthene SVOC	28900000	POS PARK	ug/kg	0	ug/kg	62.9			4200.0		<1000	<8		<8		523.0			2080.0		52.5	45.2		5310.0					<8
Phenanthrene SVOC	6170000	POS PARK	ug/kg	0	ug/kg	624.0			13600.0		1040.0	<15		30.0		604.0			2420.0		48.0	216.0		24500.0					<15
Fluorene SVOC	19600000	POS PARK	ug/kg	0	ug/kg	120.0			3450.0		<1000	<10		<10		481.0			1080.0		31.9	33.6		7280.0					<10
Naphthalene SVOC	193000	Commercial	ug/kg	1	ug/kg	233.0			1450.0		33.3	<9		<9		58.7			1020.0		<9	18.7		714.0					<9
Xylenols	9180	POS PARK	mg/kg	0	mg/kg		<0.015	<0.015	0.1	<0.015		<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Cresols	46100	POS PARK	mg/kg	0	mg/kg		<0.01	<0.01	0.0	<0.01		0.0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Tributyltin	42400	POS PARK	mg/kg	0	mg/kg											<0.02													
Methyl tert-butyl ether (MTBE)	7480000	Commercial	ug/kg	0	ug/kg						<10									<10	<10		<100						
Aromatics >C6-7	27000000	Commercial	ug/kg	0	ug/kg						<10									<10	<10		<10						
Aromatics >C7-8	56293712.8	Commercial	ug/kg	0	ug/kg						<10									<10	<10		27.6						
Aromatics >C8-10	3460000	Commercial	ug/kg	0	ug/kg						9040.0										17.7	16.2		1950.0					
Aromatics >C10-12	9240000	POS PARK	ug/kg	0	ug/kg						1400.0										24.8	15.1		1400.0					
Aromatics >C12-16	10200000	POS PARK	ug/kg	0	ug/kg						19200.0										<100	<100		44600.0					
Aromatics >C16-21	7630000	POS PARK	ug/kg	0	ug/kg						143000.0										1950.0	1270.0		132000.0					
Aromatics >C21-35	7820000	POS PARK	ug/kg	1	ug/kg						333000.0										12700.0	9880.0		463000.0					
Aromatics >C35-44	7820000	POS PARK	ug/kg	0	ug/kg						31100.0										3410.0	1490.0		183000.0					
Aliphatics >C5-6	3190000	Commercial	ug/kg	0	ug/kg						23.6										<10	<10		26.4					
Aliphatics >C6-8	7780000	Commercial	ug/kg	0	ug/kg						199.0										10.6	16.2		132.0					
Aliphatics >C8-10	2000000	Commercial	ug/kg	1	ug/kg						3570.0										26.0	24.4		2930.0					
Aliphatics >C10-12	9690000	Commercial	ug/kg	0	ug/kg						2100.0										36.6	22.0		2100.0					
Aliphatics >C12-16	24700000	POS PARK	ug/kg	0	ug/kg						26000.0										1090.0	759.0		16100.0					
Aliphatics >C16-21	45500000	POS PARK	ug/kg	0	ug/kg						102000.0										2650.0	7940.0		58400.0					
Aliphatics >C21-35	45500000	POS PARK	ug/kg	0	ug/kg						216000.0										44700.0	72800.0		604000.0					
Aliphatics >C35-44	45500000	POS PARK	ug/kg	0	ug/kg						20300.0										2600.0	13700.0		164000.0					
Trivalent Chromium	33000	POS PARK	mg/kg	0	mg/kg																								
Molybdenum	2890	POS PARK	mg/kg	0	mg/kg						<1000													<200					
4-Nitroaniline	10800	POS PARK	ug/kg	0	ug/kg						<1000													<200					
Azobenzene	10800	POS PARK	ug/kg	0	ug/kg						<1000													<200					
4-Chloroaniline	10800000	POS PARK	ug/kg	0	ug/kg						<1000													<200					
2-Nitroaniline	10800	POS PARK	ug/kg	0	ug/kg						<1000													<200					

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	AEC18-LF-WS214	AEC18-LF-WS215A	AEC18-LF-WS215A	AEC18-LF-WS216	AEC18-LF-WS216	AEC18-LF-WS217	AEC18-LF-WS217B	AEC18-LF-WS218	AEC18-LF-WS218	AEC18-LF-WS219	AEC18-LF-WS219	AEC18-LF-WS220	AEC18-LF-WS220	AEC18-LF-WS221	AEC18-LF-WS221	AEC18-LF-WS222	AEC18-LF-WS222	AEC18-LF-WS223	AEC18-LF-WS223	AEC18-LF-WS224	AEC18-LF-WS224	AEC18-LF-WS224	AEC18-LF-WS225	AEC18-LF-WS225	
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Ethylbenzene	5705.5	Commercial	mg/kg	0	mg/kg																									
Toluene	56293.7	Commercial	mg/kg	0	mg/kg																									
Anthracene	149000	POS PARK	mg/kg	0	mg/kg																									
Pyrene	15100	POS PARK	mg/kg	0	mg/kg																									
Xylene	6603.1	Commercial	mg/kg	0	mg/kg																									
Benzo (g,h,i) perylene	612	POS Maintenance	mg/kg	0	mg/kg																									
Indeno(1,2,3-cd)pyrene	44	POS Maintenance	mg/kg	0	mg/kg																									
Benzo(b)fluoranthene	13.2	POS PARK	mg/kg	4	mg/kg																									
Fluoranthene	6300	POS PARK	mg/kg	0	mg/kg																									
Benzo(k)fluoranthene	114	POS Maintenance	mg/kg	0	mg/kg																									
Acenaphthylene	28900	POS PARK	mg/kg	0	mg/kg																									
Chrysene	91	POS Maintenance	mg/kg	0	mg/kg																									
Benzo(a)pyrene	10.8	POS PARK	mg/kg	4	mg/kg																									
Dibenz-a-h-anthracene	1.15	POS PARK	mg/kg	5	mg/kg																									
Benzo(a)anthracene	48.8	POS PARK	mg/kg	0	mg/kg																									
Cyanide	24	POS PARK	mg/kg	5	mg/kg	<1	<1	2.9	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	12.6	<1	<1	2.6	<1	<1	<1	<0.5	<1	<1	<1	
Benzene	26.60	Commercial	mg/kg	0	mg/kg																									
Lead	1300	POS PARK	mg/kg	13	mg/kg	56.0	19.2	484.0	11.8	99.3	5.1	30.0	16.7	218.0	13.9	74.8	23.6	200.0	49.9	13.4	24.1	108.0	30.1	27.4	48.9	2430.0	29.3	125.0	57.3	
Mercury	244	POS PARK	mg/kg	0	mg/kg	<0.14	<0.14	1.5	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.0001	<0.14	<0.14	<0.14	
Nickel	804	POS PARK	mg/kg	8	mg/kg	48.0	14.2	37.5	7.3	21.6	5.0	21.5	22.8	1330.0	7.2	30.1	22.4	26.2	86.9	3.8	160.0	33.7	18.7	35.5	24.2	1.1	5.4	26.9	30.6	
Antimony	3290	POS PARK	mg/kg	0	mg/kg	0.9	<0.6	1.5	9.4	<0.6	<0.6	9.5	<0.6	2.6	<0.6	<0.6	<0.6	4.7	2.2	<0.6	<0.6	3.6	<0.6	<0.6	0.9	1.6	<0.6	4.3	<0.6	
Arsenic	168	POS PARK	mg/kg	0	mg/kg	20.5	7.2	19.9	2.4	13.9	1.1	11.4	7.2	17.5	2.7	17.4	12.6	14.7	14.0	1.9	16.5	12.6	10.8	14.2	13.1	0.1	5.5	13.1	20.0	
Beryllium	11.7	Commercial	mg/kg	1	mg/kg	1.4	0.6	1.6	0.3	0.8	0.2	0.8	1.0	1.0	0.3	1.1	1.0	1.2	0.8	0.2	5.7	1.4	0.9	1.0	0.7	<0.001	9.5	1.3	1.5	
Boron	46200	POS PARK	mg/kg	0	mg/kg	1.1	<1	2.1	<1	1.3	<1	4.2	<1	6.7	<1	1.5	<1	1.7	4.4	1.2	<1	3.6	1.2	1.2	1.2	4.6	3.1	1.7	2.0	
Cadmium	190	Commercial	mg/kg	0	mg/kg	0.1	0.2	1.7	0.2	0.2	0.3	0.2	0.3	0.6	0.1	0.3	0.1	0.5	0.3	0.2	2.2	0.7	0.3	0.2	0.2	0.0	0.1	0.3	0.2	
Chromium	8570	Commercial	mg/kg	1	mg/kg	60.5	10.6	99.3	4.0	12.6	3.4	10.8	16.2	12.7	5.7	18.1	25.5	15.7	57.2	3.2	44.5	25.4	20.8	27.3	23.4	877.0	14.3	25.8	32.8	
Copper	44400	POS PARK	mg/kg	2	mg/kg	29.0	10.1	82.7	6.7	25.9	4.3	87.8	12.0	265.0	8.2	199.0	21.2	36.7	28.1	9.0	43.6	127.0	22.2	32.4	29.2	0.0	15.8	31.3	23.1	
Vanadium	2820	POS Maintenance	mg/kg	0	mg/kg	74.0	21.5	53.4	7.1	30.0	5.7	27.9	31.0	24.8	10.7	26.8	60.5	42.1	37.4	5.8	80.3	31.3	43.8	50.5	30.0	0.0	30.1	51.1	69.0	
Zinc	173000	POS PARK	mg/kg	0	mg/kg	102.0	66.9	294.0	236.0	84.0	30.0	116.0	66.4	404.0	34.9	88.5	68.9	99.7	114.0	32.7	197.0	419.0	61.4	85.2	83.4	3250.0	42.0	119.0	91.6	
Selenium	1850	POS PARK	mg/kg	0	mg/kg	1.1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.01	2.0	<1	1.1
Acenaphthene	28900	POS PARK	mg/kg	0	mg/kg																									
Phenanthrene	6170	POS PARK	mg/kg	0	mg/kg																									
Fluorene	19600	POS PARK	mg/kg	0	mg/kg																									
Napthalene	193	Commercial	mg/kg	0	mg/kg																									
Phenol (Monohydric)	7600	POS Maintenance	mg/kg	0	mg/kg	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	2.2	<0.035	<0.035	0.7	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	1.1	4.6	<0.035	<0.035	
Aromatics >C7-8	56293.7	Commercial	mg/kg	0	mg/kg																									
Aromatics >C8-10	3460	Commercial	mg/kg	0	mg/kg																									
Aromatics >C10-12	9240	POS PARK	mg/kg	0	mg/kg																									
Aromatics >C12-16	10200	POS PARK	mg/kg	0	mg/kg																									
Aromatics >C16-21	7630	POS PARK	mg/kg	0	mg/kg																									
Aromatics >C21-35	7820	POS PARK	mg/kg	0	mg/kg																									
Aliphatics >C5-6	3190	Commercial	mg/kg	0	mg/kg																									
Aliphatics >C6-8	7780	Commercial	mg/kg	0	mg/kg																									
Aliphatics >C8-10	2000	Commercial	mg/kg	0	mg/kg																									
Aliphatics >C10-12	9690	Commercial	mg/kg	0	mg/kg																									
Aliphatics >C12-16	24700	POS PARK	mg/kg	0	mg/kg																									
Aliphatics >C16-21	455000	POS PARK	mg/kg	0	mg/kg																									
Aliphatics >C21-35	455000	POS PARK	mg/kg	0	mg/kg																									
Aromatics >C5-7	27	Commercial	mg/kg	0	mg/kg																									
4-Nitroaniline	10.8	POS PARK	mg/kg	0	mg/kg																									
4-Nitrophenol	7600	POS PARK	mg/kg	0	mg/kg																									
Styrene	3170	Commercial	mg/kg	0	mg/kg																									
Azobenzene	10.8	POS PARK	mg/kg	0	mg/kg																									

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	AEC18-LF-WS214	AEC18-LF-WS215A	AEC18-LF-WS215A	AEC18-LF-WS216	AEC18-LF-WS216	AEC18-LF-WS217	AEC18-LF-WS217B	AEC18-LF-WS218	AEC18-LF-WS218	AEC18-LF-WS219	AEC18-LF-WS219	AEC18-LF-WS220	AEC18-LF-WS220	AEC18-LF-WS221	AEC18-LF-WS221	AEC18-LF-WS222	AEC18-LF-WS222	AEC18-LF-WS223	AEC18-LF-WS223	AEC18-LF-WS224	AEC18-LF-WS224	AEC18-LF-WS224	AEC18-LF-WS225	AEC18-LF-WS225
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
n-propylbenzene	3860	Commercial	mg/kg	0	mg/kg																								
n-Butylbenzene	26.598	Commercial	mg/kg	0	mg/kg																								
2,4-Dimethylphenol	9180	POS PARK	mg/kg	0	mg/kg																								
3/4 Methylphenol	46000	POS PARK	mg/kg	0	mg/kg																								
1,4-Dichlorobenzene	4220	Commercial	mg/kg	0	mg/kg																								
1,2-Dichloroethane	0.671	Commercial	mg/kg	0	mg/kg																								
1,3,5-Trimethylbenzene	39.4	Commercial	mg/kg	0	mg/kg																								
Bromobenzene	91.5	Commercial	mg/kg	0	mg/kg																								
Chlorobenzene	55.6	Commercial	mg/kg	0	mg/kg																								
Phenol	7600	POS PARK	mg/kg	0	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.3	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.0	<0.1	<0.01	<0.01
Bis(2-chloroethoxy)methane	0.956	Commercial	mg/kg	0	mg/kg																								
Bis(2-ethylhexyl)phthalate	16600	POS PARK	mg/kg	0	mg/kg																								
Di-N-Octyl Phthalate	20000	POS PARK	mg/kg	0	mg/kg																								
Hexachlorobenzene (HCB)	28.9	POS PARK	mg/kg	0	mg/kg																								
1,2,4-Trichlorobenzene	215	Commercial	mg/kg	0	mg/kg																								
2,4-Dichlorophenol	977	POS PARK	mg/kg	0	mg/kg																								
2,4-Dinitrotoluene	928	POS PARK	mg/kg	0	mg/kg																								
Dibromochloromethane	1.96	Commercial	mg/kg	0	mg/kg																								
Tetrachloroethene	18.6	Commercial	mg/kg	0	mg/kg																								
Dimethylphthalate	2630	POS PARK	mg/kg	0	mg/kg																								
Dibenzofuran	10.8	POS PARK	mg/kg	0	mg/kg																								
Sec-Butylbenzene	26.6	Commercial	mg/kg	0	mg/kg																								
cis-1,2-Dichloroethene	13.6	Commercial	mg/kg	0	mg/kg																								
trans-1,2-Dichloroethene	20.7	Commercial	mg/kg	0	mg/kg																								
Methyl tert-butyl ether (MTBE)	7480	Commercial	mg/kg	0	mg/kg																								
1,3-Dichlorobenzene	29.9	Commercial	mg/kg	0	mg/kg																								
Tetrachloromethane (Carbon Tetra Chloride)	2.87	Commercial	mg/kg	0	mg/kg																								
2,3,4,6-Tetrachlorophenol	1000	POS PARK	mg/kg	0	mg/kg																								
4-Chloro-3-Methylphenol	46100	POS PARK	mg/kg	0	mg/kg																								
2,6-Dinitrotoluene	468	POS PARK	mg/kg	0	mg/kg																								
1,1,1,2-Tetrachloroethane	108	Commercial	mg/kg	0	mg/kg																								
Chloroform	99.1	Commercial	mg/kg	0	mg/kg																								
1,1,1-Trichloroethane	660	Commercial	mg/kg	0	mg/kg																								
Chloroethene	0.0594	Commercial	mg/kg	0	mg/kg																								
Tribromomethane	714	Commercial	mg/kg	0	mg/kg																								
Bromodichloromethane	1.96	Commercial	mg/kg	0	mg/kg																								
1,1-Dichloroethane	263	Commercial	mg/kg	0	mg/kg																								
1,1-Dichloroethene	24.3	Commercial	mg/kg	0	mg/kg																								
1,2-Dichloropropane	3.13	Commercial	mg/kg	0	mg/kg																								
1,1,2-Trichloroethane	89.1	Commercial	mg/kg	0	mg/kg																								
Trichloroethene	1.23	Commercial	mg/kg	0	mg/kg																								
Diethylphthalate	89300	POS PARK	mg/kg	0	mg/kg																								
Di-N-Butyl Phthalate	2630	POS PARK	mg/kg	0	mg/kg																								
Butylbenzylphthalate	254000	POS PARK	mg/kg	0	mg/kg																								
Carbazole	10.8	POS PARK	mg/kg	0	mg/kg																								
1,2,3 Trichlorobenzene	102	Commercial	mg/kg	0	mg/kg																								
Hexachlorobutadiene (HCBd)	30.7	Commercial	mg/kg	0	mg/kg																								
Pentachlorophenol (PCP)	113	POS PARK	mg/kg	0	mg/kg																								
2,4,6-Trichlorophenol	1010	POS PARK	mg/kg	0	mg/kg																								
2-Nitroaniline	10.8	POS PARK	mg/kg	0	mg/kg																								
2-Methylnaphthalene	193	Commercial	mg/kg	0	mg/kg																								
2-Chloronaphthalene	370	Commercial	mg/kg	0	mg/kg																								
2,3,5,6-Tetrachlorophenol	1000	POS PARK	mg/kg	0	mg/kg																								

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	AEC18-LF-WS214	AEC18-LF-WS215A	AEC18-LF-WS215A	AEC18-LF-WS216	AEC18-LF-WS216	AEC18-LF-WS217	AEC18-LF-WS217B	AEC18-LF-WS218	AEC18-LF-WS218	AEC18-LF-WS219	AEC18-LF-WS219	AEC18-LF-WS220	AEC18-LF-WS220	AEC18-LF-WS221	AEC18-LF-WS221	AEC18-LF-WS222	AEC18-LF-WS222	AEC18-LF-WS223	AEC18-LF-WS223	AEC18-LF-WS224	AEC18-LF-WS224	AEC18-LF-WS224	AEC18-LF-WS225	AEC18-LF-WS225
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
O-Xylene	6603.1	Commercial	mg/kg	0	mg/kg																								
2-Methylphenol	46100	POS PARK	mg/kg	0	mg/kg																								
1,2-Dichlorobenzene	2020	Commercial	mg/kg	0	mg/kg																								
2-Chlorophenol	1010	POS PARK	mg/kg	0	mg/kg																								
1,2,4-Trimethylbenzene	39.4	Commercial	mg/kg	0	mg/kg																								
2,4,5-Trichlorophenol	1010	POS PARK	mg/kg	0	mg/kg																								
Isopropylbenzene	1300	Commercial	mg/kg	0	mg/kg																								
4-Isopropyltoluene	1300	Commercial	mg/kg	0	mg/kg																								
m,p xylenes	5923.3	Commercial	mg/kg	0	mg/kg																								
Chromium - Hexavalent	220	POS PARK	mg/kg	0	mg/kg																								
Cyanide Free	168	Commercial	mg/kg	0	mg/kg																								
Complex Cyanide	3460	POS PARK	mg/kg	0	mg/kg																								
4-Nitrophenol	7600000	POS PARK	ug/kg	0	ug/kg																								
Ethylbenzene	5705504.8	Commercial	ug/kg	0	ug/kg																								
Styrene	3170000	Commercial	ug/kg	0	ug/kg																								
n-Propylbenzene	3860000	Commercial	ug/kg	0	ug/kg																								
n-Butylbenzene	26597.9	Commercial	ug/kg	0	ug/kg																								
2,4-Dimethylphenol	9180000	POS PARK	ug/kg	0	ug/kg																								
4-Methylphenol	46000000	POS PARK	ug/kg	0	ug/kg																								
1,4-Dichlorobenzene	4220000	Commercial	ug/kg	0	ug/kg																								
1,2-Dichloroethane	671	Commercial	ug/kg	0	ug/kg																								
1,3,5-Trimethylbenzene	39400	Commercial	ug/kg	3	ug/kg																								
Bromobenzene	91500	Commercial	ug/kg	0	ug/kg																								
Toluene VOC	56293712.79	Commercial	ug/kg	0	ug/kg																								
Chlorobenzene	55600	Commercial	ug/kg	0	ug/kg																								
Phenol SVOC	7600000	POS PARK	ug/kg	0	ug/kg																								
Bis(2-chloroethoxy)methane	956	Commercial	ug/kg	1	ug/kg																								
Bis(2-ethylhexyl)phthalate	16600000	POS PARK	ug/kg	0	ug/kg																								
n-Diethylphthalate	20000000	POS PARK	ug/kg	0	ug/kg																								
Hexachlorobenzene	28900	POS PARK	ug/kg	0	ug/kg																								
1,2,4-Trichlorobenzene	215000	Commercial	ug/kg	0	ug/kg																								
2,4-Dichlorophenol	977000	POS PARK	ug/kg	0	ug/kg																								
2,4-Dinitrotoluene	928000	POS PARK	ug/kg	0	ug/kg																								
Dibromochloromethane	1960	Commercial	ug/kg	0	ug/kg																								
Tetrachloroethene	18600	Commercial	ug/kg	0	ug/kg																								
Dimethyl phthalate	2630000	POS PARK	ug/kg	0	ug/kg																								
Dibenzofuran	10800	POS PARK	ug/kg	5	ug/kg																								
sec-Butylbenzene	26597.8811	Commercial	ug/kg	0	ug/kg																								
cis 1,2-Dichloroethene	13600	Commercial	ug/kg	0	ug/kg																								
trans 1,2-Dichloroethene	20700	Commercial	ug/kg	0	ug/kg																								
Perylene	10800000	POS PARK	ug/kg	0	ug/kg																								
1,3-Dichlorobenzene	29900	Commercial	ug/kg	0	ug/kg																								
Carbon Tetrachloride	2870	Commercial	ug/kg	0	ug/kg																								
4-Chloro-3-methylphenol	46100000	POS PARK	ug/kg	0	ug/kg																								
2,6-Dinitrotoluene	468000	POS PARK	ug/kg	0	ug/kg																								
1,1,1,2-Tetrachloroethane	108000	Commercial	ug/kg	0	ug/kg																								
Chloroform	99100	Commercial	ug/kg	0	ug/kg																								
Hexachloroethane	20900000	Commercial	ug/kg	0	ug/kg																								
Benzene VOC	26597.9	Commercial	ug/kg	0	ug/kg																								
1,1,1-Trichloroethane	660000	Commercial	ug/kg	0	ug/kg																								
Barium	5770	POS PARK	mg/kg	0	mg/kg																								
Chloromethane	956000	Commercial	ug/kg	0	ug/kg																								
Chloroethane	904000000	Commercial	ug/kg	0	ug/kg																								

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	AEC18-LF-WS214	AEC18-LF-WS215A	AEC18-LF-WS215A	AEC18-LF-WS216	AEC18-LF-WS216	AEC18-LF-WS217	AEC18-LF-WS217B	AEC18-LF-WS218	AEC18-LF-WS218	AEC18-LF-WS219	AEC18-LF-WS219	AEC18-LF-WS220	AEC18-LF-WS220	AEC18-LF-WS221	AEC18-LF-WS221	AEC18-LF-WS222	AEC18-LF-WS222	AEC18-LF-WS223	AEC18-LF-WS223	AEC18-LF-WS224	AEC18-LF-WS224	AEC18-LF-WS224	AEC18-LF-WS225	AEC18-LF-WS225				
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Vinyl Chloride	59.4	Commercial	ug/kg	0	ug/kg			<120											<120			<6				<120	<120	<6					
Dichloromethane VOC	257000000	Commercial	ug/kg	0	ug/kg			<200											<200			<10				<200	<200	<10					
Carbon Disulphide	11000000	Commercial	ug/kg	0	ug/kg			<140											<140			22.1				<140	<140	16.0					
Bromoform	714000	Commercial	ug/kg	0	ug/kg			<200											<200			<10				<200	<200	<10					
Bromodichloromethane	1960	Commercial	ug/kg	0	ug/kg			<140											<140			<7				<140	<140	<7					
1,1-Dichloroethane	263000	Commercial	ug/kg	0	ug/kg			<160											<160			<8				<160	<160	<8					
1,1-Dichloroethene	24300	Commercial	ug/kg	0	ug/kg			<200											<200			<10				<200	<200	<10					
Isophorone	26597881.1	Commercial	ug/kg	0	ug/kg			<500											<100			<100				<200	<2000	<100					
1,2-Dichloropropane	3130	Commercial	ug/kg	0	ug/kg			<200											<200			<10				<200	<200	<10					
1,1,2-Trichloroethane	89100	Commercial	ug/kg	0	ug/kg			<200											<200			<10				<200	<200	<10					
Trichloroethene	1230	Commercial	ug/kg	0	ug/kg			<180											<180			<9				<180	<180	<9					
1,1,2,2-Tetrachloroethane	274000000	Commercial	ug/kg	0	ug/kg			<200											<200			<10				<200	<200	<10					
Diethyl phthalate	89300000	POS PARK	ug/kg	0	ug/kg			<500											<100			<100				<200	<2000	<100					
n-Dibutylphthalate	2630000	POS PARK	ug/kg	0	ug/kg			<500											<100			250.0				47300.0	<2000	<100					
Butylbenzyl phthalate SVOC	254000000	POS PARK	ug/kg	0	ug/kg			<500											316.0			<100				369000.0	11800.0	<100					
Carbazole	10800	POS PARK	ug/kg	2	ug/kg			<500											222.0			<100				<200	46300.0	<100					
1,2,3-Trichlorobenzene	102000	Commercial	ug/kg	0	ug/kg			<400											<400			<20				<400	<400	<20					
Hexachlorobutadiene	30700	Commercial	ug/kg	0	ug/kg			<400											<100			<100				<200	<2000	<100					
Pentachlorophenol	113000	POS PARK	ug/kg	0	ug/kg			<500											<100			<100				<200	<2000	<100					
2,4,6-Trichlorophenol	1010000	POS PARK	ug/kg	0	ug/kg			<500											<100			<100				<200	<2000	<100					
2-Nitrophenol	7600000000	POS PARK	ug/kg	0	ug/kg			<500											<100			<100				<200	<2000	<100					
2-Methylnaphthalene (SVOC) DEFAULT	193000	Commercial	ug/kg	2	ug/kg			<500											2500.0			<100				14500.0	35000.0	<100					
2-Chloronaphthalene	370000	Commercial	ug/kg	0	ug/kg			<500											<100			<100				<200	<2000	<100					
o-Xylene	6603100.7	Commercial	ug/kg	0	ug/kg		<10	<200	<10			<10	<100	<200	<10	<10			788.0	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	64600.0	1000.0	<10	<10
2-Methylphenol	46100000	POS PARK	ug/kg	0	ug/kg			<500											<100			<100				<200	<2000	<100					
1,2-Dichlorobenzene	2020000	Commercial	ug/kg	0	ug/kg			<200											<100			<10				4360.0	<200	<10					
2-Chlorophenol	1010000	POS PARK	ug/kg	0	ug/kg			<500											<100			<100				<200	<2000	<100					
1,2,4-Trimethylbenzene	39400	Commercial	ug/kg	5	ug/kg			<180											1590.0			<9				658000.0	17400.0	<9					
2,4,5-Trichlorophenol	1010000	POS PARK	ug/kg	0	ug/kg			<500											<100			<100				<200	<2000	<100					
Isopropylbenzene	1300000	Commercial	ug/kg	0	ug/kg			<100											<100			<5				6930.0	<100	<5					
Nitrobenzene	26597881.1	Commercial	ug/kg	0	ug/kg			<500											<100			<100				<200	<2000	<100					
4-Isopropyltoluene	1300000	Commercial	ug/kg	0	ug/kg			<200											<200			<10				6550.0	<200	<10					
m & p Xylene	5923262.7	Commercial	ug/kg	0	ug/kg		<10	<200	<10			<10	<100	256.0	<10	<10			1670.0	<10	<10	<10	<10	<10	<10	<10	<10	<10	327000.0	4060.0	<10	<10	
Aro >C8-C9	7220	POS PARK	mg/kg	0	mg/kg																												
Aro >C9-C10	7220	POS PARK	mg/kg	0	mg/kg																												
Tributyltin SUBCON I2	42400000	POS PARK	ug/kg	0	ug/kg																												
Atrazine SUBCON Alcontrol	379000000	POS Maintenance	ug/kg	0	ug/kg																												
Aldrin SUBCON Alcontrol	7800000	POS PARK	ug/kg	0	ug/kg																					<1000							
alpha-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	46500000	POS PARK	ug/kg	0	ug/kg																					<1000							
beta-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	13300000	POS PARK	ug/kg	0	ug/kg																					<1000							
Endosulphan II	1960000000	POS Maintenance	ug/kg	0	ug/kg																					<1000							
Dieldrin SUBCON Alcontrol	12900000	POS PARK	ug/kg	0	ug/kg																					<1000							
Dichlorvos	26000000	POS PARK	ug/kg	0	ug/kg																					<1000							
Endosulphan I	1950000000	POS Maintenance	ug/kg	0	ug/kg																					<1000							
Aro >C35-C44	7820	POS PARK	mg/kg	0	mg/kg																												
Ali >C35-C44	455000	POS PARK	mg/kg	0	mg/kg																												
Anthracene SVOC	149000000	POS PARK	ug/kg	0	ug/kg		<16	606.0	60.5			23.0	56.2	8090.0	29.8	<16	236.0	115.0	<16	<100	32.0	34.7	45.0	256.0	130000.0	<100	79.3						
Pyrene SVOC	15100000	POS PARK	ug/kg	0	ug/kg		128.0	3040.0	293.0			198.0	495.0	18600.0	186.0	55.5	1010.0	291.0	24.3	<100	259.0	246.0	284.0	756.0	291000.0	463.0	813.0						
Benzo(ghi)perylene SVOC	612000	POS Maintenance	ug/kg	0	ug/kg		67.1	1550.0	67.0			132.0	319.0	3360.0	71.2	<24	199.0	72.1	<24	<100	100.0	90.6	98.9	<200	71600.0	175.0	209.0						
Indeno(1,2,3-cd)pyrene SVOC	44000	POS Maintenance	ug/kg	1	ug/kg		57.6	1090.0	78.0			127.0	344.0	3980.0	65.0	<18	152.0	49.7	<18	<100	79.7	73.2	92.7	<18	80400.0	200.0	232.0						
Benzo(b)fluoranthene SVOC	13200	POS PARK	ug/kg	7	ug/kg		152.0	2380.0	126.0			171.0	512.0	7610.0	162.0	32.2	2040.0	121.0	23.1	1380.0	152.0	133.0	258.0	<15	103000.0	213.0	581.0						
Fluoranthene SVOC	6300000	POS PARK	ug/kg	0	ug/kg		136.0	6360.0	338.0			216.0	532.0	24100.0	206.0	59.8	4470.0	348.0	25.2	<100													

Appendix E

E3 Full Human Health Screening Assessment

Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Hole Ref	AEC18-LF-WS214	AEC18-LF-WS215A	AEC18-LF-WS215A	AEC18-LF-WS216	AEC18-LF-WS216	AEC18-LF-WS217	AEC18-LF-WS217B	AEC18-LF-WS218	AEC18-LF-WS218	AEC18-LF-WS219	AEC18-LF-WS219	AEC18-LF-WS220	AEC18-LF-WS220	AEC18-LF-WS221	AEC18-LF-WS221	AEC18-LF-WS222	AEC18-LF-WS222	AEC18-LF-WS223	AEC18-LF-WS223	AEC18-LF-WS224	AEC18-LF-WS224	AEC18-LF-WS224	AEC18-LF-WS225	AEC18-LF-WS225		
					Sample Top	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Benzo(k)fluoranthene SVOC	114000	POS Maintenance	ug/kg	0	ug/kg	48.7		893.0	51.3			80.5		184.0		2800.0	52.8	<14	212.0	52.1	<14	<100	56.0	58.0	86.3	<14	91600.0	200.0	210.0		
Acenaphthylene SVOC	28900000	POS PARK	ug/kg	0	ug/kg	<12		<500	<12			16.1		<12		237.0	<12	<12	107.0	<12	<12	<100	<12	<12	<12	<200	8260.0	<100	18.5		
Chrysene SVOC	91000	POS Maintenance	ug/kg	1	ug/kg	73.5		1570.0	113.0			105.0		339.0		6380.0	99.1	25.3	359.0	90.1	14.5	<100	115.0	92.0	136.0	327.0	114000.0	225.0	371.0		
Benzo(a)pyrene SVOC	10800	POS PARK	ug/kg	8	ug/kg	88.4		1600.0	109.0			151.0		383.0		6280.0	118.0	29.2	310.0	80.5	<15	<100	151.0	132.0	147.0	<15	83700.0	213.0	386.0		
Dibenzo(ah)anthracene SVOC	1150	POS PARK	ug/kg	10	ug/kg	<23		<500	<23			<23		68.1		632.0	<23	<23	51.0	<23	<23	<100	<23	<23	<23	<200	7690.0	<100	45.4		
Benzo(a)anthracene SVOC	48800	POS PARK	ug/kg	2	ug/kg	67.5		1380.0	124.0			93.6		293.0		7930.0	117.0	24.4	416.0	84.7	<14	<100	117.0	112.0	140.0	163.0	134000.0	238.0	427.0		
Acenaphthene SVOC	28900000	POS PARK	ug/kg	0	ug/kg	<8		<500	26.4			12.7		12.3		4960.0	16.6	<8	432.0	104.0	<8	<100	14.2	21.1	21.9	537.0	97800.0	<100	97.7		
Phenanthrene SVOC	6170000	POS PARK	ug/kg	0	ug/kg	32.9		2870.0	235.0			97.2		130.0		29800.0	101.0	25.1	1100.0	394.0	<15	<100	98.6	134.0	115.0	2040.0	452000.0	313.0	293.0		
Fluorene SVOC	19600000	POS PARK	ug/kg	0	ug/kg	<10		<500	28.3			<10		20.3		6680.0	14.7	<10	461.0	78.3	<10	<100	<10	18.9	15.7	988.0	82300.0	<100	81.7		
Naphthalene SVOC	193000	Commercial	ug/kg	1	ug/kg	<9		<260	<9			16.7		13.5		5200.0	<9	<9	21800.0	22.8	<9	<100	<9	<9	59.1	146000.0	56200.0	<100	17.7		
Xylenols	9180	POS PARK	mg/kg	0	mg/kg	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	1.2	<0.015	<0.015	0.6	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	0.9	3.5	<0.015	<0.015	
Cresols	46100	POS PARK	mg/kg	0	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.7	<0.01	<0.01	0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.2	1.1	<0.01	<0.01	
Tributyltin	42400	POS PARK	mg/kg	0	mg/kg																								<0.02		
Methyl tert-butyl ether (MTBE)	7480000	Commercial	ug/kg	0	ug/kg			<200				<10		<100					<10	<200	<10					<200	<200	<10			
Aromatics >C6-7	27000000	Commercial	ug/kg	0	ug/kg							<10		<10					<10	65.5	<10					<200	<200	<10			
Aromatics >C7-8	56293712.8	Commercial	ug/kg	0	ug/kg							<10		<10					<10	530.0	<10					204000.0	1450.0	<10			
Aromatics >C8-10	3460000	Commercial	ug/kg	0	ug/kg							21.1		154.0					13.8	6350.0	28.2					1550000.0	108000.0	223.0			
Aromatics >C10-12	9240000	POS PARK	ug/kg	0	ug/kg							32.2		134.0					11.3	5710.0	51.2					750000.0	131000.0	263.0			
Aromatics >C12-16	10200000	POS PARK	ug/kg	0	ug/kg							<100		<100					<100	69600.0	1900.0					339000.0	750000.0	6340.0			
Aromatics >C16-21	7630000	POS PARK	ug/kg	0	ug/kg							<100		8500.0					2740.0	180000.0	7060.0					767000.0	2430000.0	22100.0			
Aromatics >C21-35	7820000	POS PARK	ug/kg	1	ug/kg							<100		96300.0					37800.0	623000.0	17900.0					4020000.0	3960000.0	62600.0			
Aromatics >C35-44	7820000	POS PARK	ug/kg	0	ug/kg							<100		13000.0					14800.0	92200.0	4890.0					750000.0	786000.0	77700.0			
Aliphatics >C5-6	3190000	Commercial	ug/kg	0	ug/kg							<10		15.8					<10	129.0	<10					7070.0	203.0	13.8			
Aliphatics >C6-8	7780000	Commercial	ug/kg	0	ug/kg							28.9		85.0					<10	1820.0	20.5					141000.0	2110.0	43.8			
Aliphatics >C8-10	2000000	Commercial	ug/kg	1	ug/kg							31.1		230.0					20.0	9520.0	42.2					2320000.0	161000.0	334.0			
Aliphatics >C10-12	9690000	Commercial	ug/kg	0	ug/kg							48.8		200.0					16.3	8570.0	76.8					1130000.0	196000.0	394.0			
Aliphatics >C12-16	24700000	POS PARK	ug/kg	0	ug/kg							<100		1380.0					<100	74400.0	4190.0					1110000.0	190000.0	9930.0			
Aliphatics >C16-21	45500000	POS PARK	ug/kg	0	ug/kg							1430.0		9330.0					4730.0	443000.0	15400.0					3910000.0	661000.0	28300.0			
Aliphatics >C21-35	45500000	POS PARK	ug/kg	0	ug/kg							4330.0		117000.0					60100.0	1110000.0	27400.0					17000000.0	2320000.0	44700.0			
Aliphatics >C35-44	45500000	POS PARK	ug/kg	0	ug/kg							<100		46600.0					19400.0	129000.0	4950.0					2400000.0	342000.0	63000.0			
Trivalent Chromium	33000	POS PARK	mg/kg	0	mg/kg																					<0.3					
Molybdenum	2890	POS PARK	mg/kg	0	mg/kg																						3.1				
4-Nitroaniline	10800	POS PARK	ug/kg	0	ug/kg			<500												<100						<200	<2000	<100			
Azobenzene	10800	POS PARK	ug/kg	0	ug/kg			<500												<100						<200	<2000	<100			
4-Chloroaniline	10800000	POS PARK	ug/kg	0	ug/kg			<500												<100						<200	<2000	<100			
2-Nitroaniline	10800	POS PARK	ug/kg	0	ug/kg			<500												<100						<200	<2000	<100			

Appendix E

E3 Full Human Health Screening Assessment

					Hole Ref	AEC18-LF-WS225
					Sample Top	4.55
					Sample Ref	7
Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Sample Type	ES
Ethylbenzene	5705.5	Commercial	mg/kg	0	mg/kg	
Toluene	56293.7	Commercial	mg/kg	0	mg/kg	
Anthracene	149000	POS PARK	mg/kg	0	mg/kg	
Pyrene	15100	POS PARK	mg/kg	0	mg/kg	
Xylene	6603.1	Commercial	mg/kg	0	mg/kg	
Benzo (g,h,i) perylene	612	POS Maintenance	mg/kg	0	mg/kg	
Indeno(1,2,3-cd)pyrene	44	POS Maintenance	mg/kg	0	mg/kg	
Benzo(b)fluoranthene	13.2	POS PARK	mg/kg	4	mg/kg	
Fluoranthene	6300	POS PARK	mg/kg	0	mg/kg	
Benzo(k)fluoranthene	114	POS Maintenance	mg/kg	0	mg/kg	
Acenaphthylene	28900	POS PARK	mg/kg	0	mg/kg	
Chrysene	91	POS Maintenance	mg/kg	0	mg/kg	
Benzo(a)pyrene	10.8	POS PARK	mg/kg	4	mg/kg	
Dibenz-a-h-anthracene	1.15	POS PARK	mg/kg	5	mg/kg	
Benzo(a)anthracene	48.8	POS PARK	mg/kg	0	mg/kg	
Cyanide	24	POS PARK	mg/kg	5	mg/kg	13.5
Benzene	26.60	Commercial	mg/kg	0	mg/kg	
Lead	1300	POS PARK	mg/kg	13	mg/kg	447.0
Mercury	244	POS PARK	mg/kg	0	mg/kg	1.2
Nickel	804	POS PARK	mg/kg	8	mg/kg	60.8
Antimony	3290	POS PARK	mg/kg	0	mg/kg	12.7
Arsenic	168	POS PARK	mg/kg	0	mg/kg	48.7
Beryllium	11.7	Commercial	mg/kg	1	mg/kg	6.6
Boron	46200	POS PARK	mg/kg	0	mg/kg	39.5
Cadmium	190	Commercial	mg/kg	0	mg/kg	0.7
Chromium	8570	Commercial	mg/kg	1	mg/kg	15.1
Copper	44400	POS PARK	mg/kg	2	mg/kg	305.0
Vanadium	2820	POS Maintenance	mg/kg	0	mg/kg	39.7
Zinc	173000	POS PARK	mg/kg	0	mg/kg	677.0
Selenium	1850	POS PARK	mg/kg	0	mg/kg	1.5
Acenaphthene	28900	POS PARK	mg/kg	0	mg/kg	
Phenanthrene	6170	POS PARK	mg/kg	0	mg/kg	
Fluorene	19600	POS PARK	mg/kg	0	mg/kg	
Napthalene	193	Commercial	mg/kg	0	mg/kg	
Phenol (Monohydric)	7600	POS Maintenance	mg/kg	0	mg/kg	<0.035
Aromatics >C7-8	56293.7	Commercial	mg/kg	0	mg/kg	
Aromatics >C8-10	3460	Commercial	mg/kg	0	mg/kg	
Aromatics >C10-12	9240	POS PARK	mg/kg	0	mg/kg	
Aromatics >C12-16	10200	POS PARK	mg/kg	0	mg/kg	
Aromatics >C16-21	7630	POS PARK	mg/kg	0	mg/kg	
Aromatics >C21-35	7820	POS PARK	mg/kg	0	mg/kg	
Aliphatics >C5-6	3190	Commercial	mg/kg	0	mg/kg	
Aliphatics >C6-8	7780	Commercial	mg/kg	0	mg/kg	
Aliphatics >C8-10	2000	Commercial	mg/kg	0	mg/kg	
Aliphatics >C10-12	9690	Commercial	mg/kg	0	mg/kg	
Aliphatics >C12-16	24700	POS PARK	mg/kg	0	mg/kg	
Aliphatics >C16-21	455000	POS PARK	mg/kg	0	mg/kg	
Aliphatics >C21-35	455000	POS PARK	mg/kg	0	mg/kg	
Aromatics >C5-7	27	Commercial	mg/kg	0	mg/kg	
4-Nitroaniline	10.8	POS PARK	mg/kg	0	mg/kg	
4-Nitrophenol	7600	POS PARK	mg/kg	0	mg/kg	
Styrene	3170	Commercial	mg/kg	0	mg/kg	
Azobenzene	10.8	POS PARK	mg/kg	0	mg/kg	

Appendix E

E3 Full Human Health Screening Assessment

					Hole Ref	AEC18-LF-WS225
					Sample Top	4.55
					Sample Ref	7
Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Sample Type	ES
n-propylbenzene	3860	Commercial	mg/kg	0	mg/kg	
n-Butylbenzene	26.598	Commercial	mg/kg	0	mg/kg	
2,4-Dimethylphenol	9180	POS PARK	mg/kg	0	mg/kg	
3/4 Methylphenol	46000	POS PARK	mg/kg	0	mg/kg	
1,4-Dichlorobenzene	4220	Commercial	mg/kg	0	mg/kg	
1,2-Dichloroethane	0.671	Commercial	mg/kg	0	mg/kg	
1,3,5-Trimethylbenzene	39.4	Commercial	mg/kg	0	mg/kg	
Bromobenzene	91.5	Commercial	mg/kg	0	mg/kg	
Chlorobenzene	55.6	Commercial	mg/kg	0	mg/kg	
Phenol	7600	POS PARK	mg/kg	0	mg/kg	0.0
Bis(2-chloroethoxy)methane	0.956	Commercial	mg/kg	0	mg/kg	
Bis(2-ethylhexyl)phthalate	16600	POS PARK	mg/kg	0	mg/kg	
Di-N-Octyl Phthalate	20000	POS PARK	mg/kg	0	mg/kg	
Hexachlorobenzene (HCB)	28.9	POS PARK	mg/kg	0	mg/kg	
1,2,4-Trichlorobenzene	215	Commercial	mg/kg	0	mg/kg	
2,4-Dichlorophenol	977	POS PARK	mg/kg	0	mg/kg	
2,4-Dinitrotoluene	928	POS PARK	mg/kg	0	mg/kg	
Dibromochloromethane	1.96	Commercial	mg/kg	0	mg/kg	
Tetrachloroethene	18.6	Commercial	mg/kg	0	mg/kg	
Dimethylphthalate	2630	POS PARK	mg/kg	0	mg/kg	
Dibenzofuran	10.8	POS PARK	mg/kg	0	mg/kg	
Sec-Butylbenzene	26.6	Commercial	mg/kg	0	mg/kg	
cis-1,2-Dichloroethene	13.6	Commercial	mg/kg	0	mg/kg	
trans-1,2-Dichloroethene	20.7	Commercial	mg/kg	0	mg/kg	
Methyl tert-butyl ether (MTBE)	7480	Commercial	mg/kg	0	mg/kg	
1,3-Dichlorobenzene	29.9	Commercial	mg/kg	0	mg/kg	
Tetrachloromethane (Carbon Tetra Chloride)	2.87	Commercial	mg/kg	0	mg/kg	
2,3,4,6-Tetrachlorophenol	1000	POS PARK	mg/kg	0	mg/kg	
4-Chloro-3-Methylphenol	46100	POS PARK	mg/kg	0	mg/kg	
2,6-Dinitrotoluene	468	POS PARK	mg/kg	0	mg/kg	
1,1,1,2-Tetrachloroethane	108	Commercial	mg/kg	0	mg/kg	
Chloroform	99.1	Commercial	mg/kg	0	mg/kg	
1,1,1-Trichloroethane	660	Commercial	mg/kg	0	mg/kg	
Chloroethene	0.0594	Commercial	mg/kg	0	mg/kg	
Tribromomethane	714	Commercial	mg/kg	0	mg/kg	
Bromodichloromethane	1.96	Commercial	mg/kg	0	mg/kg	
1,1-Dichloroethane	263	Commercial	mg/kg	0	mg/kg	
1,1-Dichloroethene	24.3	Commercial	mg/kg	0	mg/kg	
1,2-Dichloropropane	3.13	Commercial	mg/kg	0	mg/kg	
1,1,2-Trichloroethane	89.1	Commercial	mg/kg	0	mg/kg	
Trichloroethene	1.23	Commercial	mg/kg	0	mg/kg	
Diethylphthalate	89300	POS PARK	mg/kg	0	mg/kg	
Di-N-Butyl Phthalate	2630	POS PARK	mg/kg	0	mg/kg	
Butylbenzylphthalate	254000	POS PARK	mg/kg	0	mg/kg	
Carbazole	10.8	POS PARK	mg/kg	0	mg/kg	
1,2,3 Trichlorobenzene	102	Commercial	mg/kg	0	mg/kg	
Hexachlorobutadiene (HCBBD)	30.7	Commercial	mg/kg	0	mg/kg	
Pentachlorophenol (PCP)	113	POS PARK	mg/kg	0	mg/kg	
2,4,6-Trichlorophenol	1010	POS PARK	mg/kg	0	mg/kg	
2-Nitroaniline	10.8	POS PARK	mg/kg	0	mg/kg	
2-Methylnaphthalene	193	Commercial	mg/kg	0	mg/kg	
2-Chloronaphthalene	370	Commercial	mg/kg	0	mg/kg	
2,3,5,6-Tetrachlorophenol	1000	POS PARK	mg/kg	0	mg/kg	

Appendix E

E3 Full Human Health Screening Assessment

					Hole Ref	AEC18-LF-WS225
					Sample Top	4.55
					Sample Ref	7
Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Sample Type	ES
O-Xylene	6603.1	Commercial	mg/kg	0	mg/kg	
2-Methylphenol	46100	POS PARK	mg/kg	0	mg/kg	
1,2-Dichlorobenzene	2020	Commercial	mg/kg	0	mg/kg	
2-Chlorophenol	1010	POS PARK	mg/kg	0	mg/kg	
1,2,4-Trimethylbenzene	39.4	Commercial	mg/kg	0	mg/kg	
2,4,5-Trichlorophenol	1010	POS PARK	mg/kg	0	mg/kg	
Isopropylbenzene	1300	Commercial	mg/kg	0	mg/kg	
4-Isopropyltoluene	1300	Commercial	mg/kg	0	mg/kg	
m,p xylenes	5923.3	Commercial	mg/kg	0	mg/kg	
Chromium - Hexavalent	220	POS PARK	mg/kg	0	mg/kg	
Cyanide Free	168	Commercial	mg/kg	0	mg/kg	
Complex Cyanide	3460	POS PARK	mg/kg	0	mg/kg	
4-Nitrophenol	7600000	POS PARK	ug/kg	0	ug/kg	
Ethylbenzene	5705504.8	Commercial	ug/kg	0	ug/kg	<800
Styrene	3170000	Commercial	ug/kg	0	ug/kg	
n-Propylbenzene	3860000	Commercial	ug/kg	0	ug/kg	
n-Butylbenzene	26597.9	Commercial	ug/kg	0	ug/kg	
2,4-Dimethylphenol	9180000	POS PARK	ug/kg	0	ug/kg	
4-Methylphenol	46000000	POS PARK	ug/kg	0	ug/kg	
1,4-Dichlorobenzene	4220000	Commercial	ug/kg	0	ug/kg	
1,2-Dichloroethane	671	Commercial	ug/kg	0	ug/kg	
1,3,5-Trimethylbenzene	39400	Commercial	ug/kg	3	ug/kg	
Bromobenzene	91500	Commercial	ug/kg	0	ug/kg	
Toluene VOC	56293712.79	Commercial	ug/kg	0	ug/kg	<1400
Chlorobenzene	55600	Commercial	ug/kg	0	ug/kg	
Phenol SVOC	7600000	POS PARK	ug/kg	0	ug/kg	
Bis(2-chloroethoxy)methane	956	Commercial	ug/kg	1	ug/kg	
Bis(2-ethylhexyl)phthalate	16600000	POS PARK	ug/kg	0	ug/kg	
n-Diethylphthalate	20000000	POS PARK	ug/kg	0	ug/kg	
Hexachlorobenzene	28900	POS PARK	ug/kg	0	ug/kg	
1,2,4-Trichlorobenzene	215000	Commercial	ug/kg	0	ug/kg	
2,4-Dichlorophenol	977000	POS PARK	ug/kg	0	ug/kg	
2,4-Dinitrotoluene	928000	POS PARK	ug/kg	0	ug/kg	
Dibromochloromethane	1960	Commercial	ug/kg	0	ug/kg	
Tetrachloroethene	18600	Commercial	ug/kg	0	ug/kg	
Dimethyl phthalate	2630000	POS PARK	ug/kg	0	ug/kg	
Dibenzofuran	10800	POS PARK	ug/kg	5	ug/kg	
sec-Butylbenzene	26597.8811	Commercial	ug/kg	0	ug/kg	
cis 1,2-Dichloroethene	13600	Commercial	ug/kg	0	ug/kg	
trans 1,2-Dichloroethene	20700	Commercial	ug/kg	0	ug/kg	
Perylene	10800000	POS PARK	ug/kg	0	ug/kg	
1,3-Dichlorobenzene	29900	Commercial	ug/kg	0	ug/kg	
Carbon Tetrachloride	2870	Commercial	ug/kg	0	ug/kg	
4-Chloro-3-methylphenol	46100000	POS PARK	ug/kg	0	ug/kg	
2,6-Dinitrotoluene	468000	POS PARK	ug/kg	0	ug/kg	
1,1,1,2-Tetrachloroethane	108000	Commercial	ug/kg	0	ug/kg	
Chloroform	99100	Commercial	ug/kg	0	ug/kg	
Hexachloroethane	20900000	Commercial	ug/kg	0	ug/kg	
Benzene VOC	26597.9	Commercial	ug/kg	0	ug/kg	<1800
1,1,1-Trichloroethane	660000	Commercial	ug/kg	0	ug/kg	
Barium	5770	POS PARK	mg/kg	0	mg/kg	
Chloromethane	956000	Commercial	ug/kg	0	ug/kg	
Chloroethane	904000000	Commercial	ug/kg	0	ug/kg	

Appendix E

E3 Full Human Health Screening Assessment

					Hole Ref	AEC18-LF-WS225
					Sample Top	4.55
					Sample Ref	7
Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Sample Type	ES
Vinyl Chloride	59.4	Commercial	ug/kg	0	ug/kg	
Dichloromethane VOC	257000000	Commercial	ug/kg	0	ug/kg	
Carbon Disulphide	11000000	Commercial	ug/kg	0	ug/kg	
Bromoform	714000	Commercial	ug/kg	0	ug/kg	
Bromodichloromethane	1960	Commercial	ug/kg	0	ug/kg	
1,1-Dichloroethane	263000	Commercial	ug/kg	0	ug/kg	
1,1-Dichloroethene	24300	Commercial	ug/kg	0	ug/kg	
Isophorone	26597881.1	Commercial	ug/kg	0	ug/kg	
1,2-Dichloropropane	3130	Commercial	ug/kg	0	ug/kg	
1,1,2-Trichloroethane	89100	Commercial	ug/kg	0	ug/kg	
Trichloroethene	1230	Commercial	ug/kg	0	ug/kg	
1,1,2,2-Tetrachloroethane	274000000	Commercial	ug/kg	0	ug/kg	
Diethyl phthalate	89300000	POS PARK	ug/kg	0	ug/kg	
n-Dibutylphthalate	2630000	POS PARK	ug/kg	0	ug/kg	
Butylbenzyl phthalate SVOC	254000000	POS PARK	ug/kg	0	ug/kg	
Carbazole	10800	POS PARK	ug/kg	2	ug/kg	
1,2,3-Trichlorobenzene	102000	Commercial	ug/kg	0	ug/kg	
Hexachlorobutadiene	30700	Commercial	ug/kg	0	ug/kg	
Pentachlorophenol	113000	POS PARK	ug/kg	0	ug/kg	
2,4,6-Trichlorophenol	1010000	POS PARK	ug/kg	0	ug/kg	
2-Nitrophenol	7600000000	POS PARK	ug/kg	0	ug/kg	
2-Methylnaphthalene (SVOC) DEFAULT	193000	Commercial	ug/kg	2	ug/kg	
2-Chloronaphthalene	370000	Commercial	ug/kg	0	ug/kg	
o-Xylene	6603100.7	Commercial	ug/kg	0	ug/kg	<2000
2-Methylphenol	46100000	POS PARK	ug/kg	0	ug/kg	
1,2-Dichlorobenzene	2020000	Commercial	ug/kg	0	ug/kg	
2-Chlorophenol	1010000	POS PARK	ug/kg	0	ug/kg	
1,2,4-Trimethylbenzene	39400	Commercial	ug/kg	5	ug/kg	
2,4,5-Trichlorophenol	1010000	POS PARK	ug/kg	0	ug/kg	
Isopropylbenzene	1300000	Commercial	ug/kg	0	ug/kg	
Nitrobenzene	26597881.1	Commercial	ug/kg	0	ug/kg	
4-Isopropyltoluene	1300000	Commercial	ug/kg	0	ug/kg	
m & p Xylene	5923262.7	Commercial	ug/kg	0	ug/kg	<2000
Aro >C8-C9	7220	POS PARK	mg/kg	0	mg/kg	
Aro >C9-C10	7220	POS PARK	mg/kg	0	mg/kg	
Tributyltin SUBCON I2	42400000	POS PARK	ug/kg	0	ug/kg	
Atrazine SUBCON Alcontrol	379000000	POS Maintenance	ug/kg	0	ug/kg	
Aldrin SUBCON Alcontrol	7800000	POS PARK	ug/kg	0	ug/kg	
alpha-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	46500000	POS PARK	ug/kg	0	ug/kg	
beta-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	13300000	POS PARK	ug/kg	0	ug/kg	
Endosulphan II	1960000000	POS Maintenance	ug/kg	0	ug/kg	
Dieldrin SUBCON Alcontrol	12900000	POS PARK	ug/kg	0	ug/kg	
Dichlorvos	26000000	POS PARK	ug/kg	0	ug/kg	
Endosulphan I	1950000000	POS Maintenance	ug/kg	0	ug/kg	
Aro >C35-C44	7820	POS PARK	mg/kg	0	mg/kg	
Ali >C35-C44	455000	POS PARK	mg/kg	0	mg/kg	
Anthracene SVOC	149000000	POS PARK	ug/kg	0	ug/kg	576.0
Pyrene SVOC	15100000	POS PARK	ug/kg	0	ug/kg	5000.0
Benzo(ghi)perylene SVOC	612000	POS Maintenance	ug/kg	0	ug/kg	3170.0
Indeno(1,2,3-cd)pyrene SVOC	44000	POS Maintenance	ug/kg	1	ug/kg	3520.0
Benzo(b)fluoranthene SVOC	13200	POS PARK	ug/kg	7	ug/kg	4910.0
Fluoranthene SVOC	6300000	POS PARK	ug/kg	0	ug/kg	6200.0

Appendix E

E3 Full Human Health Screening Assessment

					Hole Ref	AEC18-LF-WS225
					Sample Top	4.55
					Sample Ref	7
Contaminant Name	Screening value	Lowest Criteria	Screening units	No. Exceedances	Sample Type	ES
Benzo(k)fluoranthene SVOC	114000	POS Maintenance	ug/kg	0	ug/kg	1670.0
Acenaphthylene SVOC	28900000	POS PARK	ug/kg	0	ug/kg	137.0
Chrysene SVOC	91000	POS Maintenance	ug/kg	1	ug/kg	2850.0
Benzo(a)pyrene SVOC	10800	POS PARK	ug/kg	8	ug/kg	4380.0
Dibenzo(ah)anthracene SVOC	1150	POS PARK	ug/kg	10	ug/kg	598.0
Benzo(a)anthracene SVOC	48800	POS PARK	ug/kg	2	ug/kg	3500.0
Acenaphthene SVOC	28900000	POS PARK	ug/kg	0	ug/kg	65.5
Phenanthrene SVOC	6170000	POS PARK	ug/kg	0	ug/kg	1690.0
Fluorene SVOC	19600000	POS PARK	ug/kg	0	ug/kg	113.0
Naphthalene SVOC	193000	Commercial	ug/kg	1	ug/kg	<45
Xylenols	9180	POS PARK	mg/kg	0	mg/kg	<0.015
Cresols	46100	POS PARK	mg/kg	0	mg/kg	<0.01
Tributyltin	42400	POS PARK	mg/kg	0	mg/kg	
Methyl tert-butyl ether (MTBE)	7480000	Commercial	ug/kg	0	ug/kg	<2000
Aromatics >C6-7	27000000	Commercial	ug/kg	0	ug/kg	<10
Aromatics >C7-8	56293712.8	Commercial	ug/kg	0	ug/kg	<10
Aromatics >C8-10	3460000	Commercial	ug/kg	0	ug/kg	2460.0
Aromatics >C10-12	9240000	POS PARK	ug/kg	0	ug/kg	499.0
Aromatics >C12-16	10200000	POS PARK	ug/kg	0	ug/kg	5630.0
Aromatics >C16-21	7630000	POS PARK	ug/kg	0	ug/kg	48600.0
Aromatics >C21-35	7820000	POS PARK	ug/kg	1	ug/kg	316000.0
Aromatics >C35-44	7820000	POS PARK	ug/kg	0	ug/kg	115000.0
Aliphatics >C5-6	3190000	Commercial	ug/kg	0	ug/kg	33.3
Aliphatics >C6-8	7780000	Commercial	ug/kg	0	ug/kg	148.0
Aliphatics >C8-10	2000000	Commercial	ug/kg	1	ug/kg	3690.0
Aliphatics >C10-12	9690000	Commercial	ug/kg	0	ug/kg	749.0
Aliphatics >C12-16	24700000	POS PARK	ug/kg	0	ug/kg	6070.0
Aliphatics >C16-21	45500000	POS PARK	ug/kg	0	ug/kg	49000.0
Aliphatics >C21-35	45500000	POS PARK	ug/kg	0	ug/kg	408000.0
Aliphatics >C35-44	45500000	POS PARK	ug/kg	0	ug/kg	104000.0
Trivalent Chromium	33000	POS PARK	mg/kg	0	mg/kg	
Molybdenum	2890	POS PARK	mg/kg	0	mg/kg	
4-Nitroaniline	10800	POS PARK	ug/kg	0	ug/kg	
Azobenzene	10800	POS PARK	ug/kg	0	ug/kg	
4-Chloroaniline	10800000	POS PARK	ug/kg	0	ug/kg	
2-Nitroaniline	10800	POS PARK	ug/kg	0	ug/kg	

E 3.1 Airport Access Road Human Health Screening Assessment

Criteria:

Commercial 2.5%

Sample ID	CPPF35	PFCP20	PFCP30	PFCP35A	PFCP56	PFCP57	PFCP60	PFCP61	PFCPR01	PFCPR02	PFCPR03	PFCPRC04	PFCPRC04	PFCPRC11
Depth	0.40	0.70	0.30	5.80	0.60	1.00	0.30	0.50	1.00	0.70	0.30	0.60	3.50	0.30
Strata	MG	MG	MG	MG	MG	MG	MG	MG	MG	Clay	MG	MG	MG	MG

Contaminant Name	Units	No. of Exceedances	Screening Value	Saturation Limit	CPPF35	PFCP20	PFCP30	PFCP35A	PFCP56	PFCP57	PFCP60	PFCP61	PFCPR01	PFCPR02	PFCPR03	PFCPRC04	PFCPRC04	PFCPRC11
Metals																		
Arsenic	mg/kg	0	635.00		<1			5	<1		15	17	8			10	8	
Barium	mg/kg	0	22100.00		51			1180	77		67	919	89			94	134	
Beryllium	mg/kg	0	11.70		<1			1	<1		1	4	1			1	1	
Boron, Water Soluble	mg/kg	0	236000.00		<1.0			1.6	<1.0		1.3	12	1.5			1.1	2.6	
Cadmium	mg/kg	0	190.00		<0.5			2.1	<0.5		0.6	1.4	0.6			1.9	1.8	
Chromium III	mg/kg	0	8570.00		5			25	4		27	32	33			29	32	
Chromium, Hexavalent (VI)	mg/kg	0	32.80		<1			<1	<1		<1	<1	<1			<1	<1	
Copper	mg/kg	0	68300.00		7			21	4		16	147	22			20	19	
Lead	mg/kg	0	2300.00		7			43	4		21	215	27			51	27	
Mercury (Inorganic)	mg/kg	0	1120.00		0.52			<0.17	0.57		<0.17	0.7	0.17			<0.17	0.28	
Nickel	mg/kg	0	983.00		4			24	4		19	40	16			21	27	
Selenium	mg/kg	0	12261.00		<1			<1	1		<1	<1	<1			<1	<1	
Vanadium	mg/kg	0	6360.00															
Zinc	mg/kg	0	730000.00			22		127	20		56	332	54			64	67	
Acidity / Alkalinity																		
pH	pH Units	0				8.32		7.64	8.34		11.41	8.64	8.87			8.02	8.42	
Miscellaneous																		
Soil Organic Matter	%	0				0.3		2	12.6		0.1	7.5	1.2			1.9	1.6	
Physical Tests																		
Stone Content	0	0				<0.1		9.6	<0.1		<0.1	10.7	3.3			8.6	7.7	
Asbestos																		
Asbestos Screen	0	0			NAD	NAD	NAD	NAD	NAD	NAD	Amosite	NAD	NAD	NAD	NAD	NAD	NAD	NAD
Asbestos Type	0	0																
Asbestos Type2	0	0									Loose Fibres							
Asbestos Quantification (Total)	0	0									<0.001							
Total Petroleum Hydrocarbons Criteria Working Group																		
Aliphatic C5-C6	mg/kg	0	5860	558.00	<0.01			<0.01	<0.01		<0.01	<0.01	<0.01			<0.01	<0.01	
Aliphatic C6-C8	mg/kg	0	17400	322.00	<0.01			<0.01	<0.01		<0.01	<0.01	<0.01			<0.01	<0.01	
Aliphatic C8-C10	mg/kg	0	4850	190.00	<0.01			<0.01	<0.01		<0.01	<0.01	<0.01			<0.01	<0.01	
Aliphatic C10-C12	mg/kg	0	22900	118.00	<0.1			<0.1	<0.1		<0.1	<0.1	<0.1			0.7	<0.1	
Aliphatic C12-C16	mg/kg	0	81700	59.10	<0.1			<0.1	<0.1		<0.1	<0.1	<0.1			24	<0.1	
Aliphatic C16-C21	mg/kg	0	10700000	21.20	<0.1			<0.1	<0.1		<0.1	<0.1	<0.1			103	<0.1	
Aliphatic C21-C35	mg/kg	0	10700000	21.20	<0.1			<0.1	<0.1		<0.1	<0.1	<0.1			584	<0.1	
Total Aliphatic	mg/kg	0			<0.1			<0.1	<0.1		<0.1	<0.1	<0.1			712	<0.1	
Aromatic C5-C7	mg/kg	0	47.00		<0.01			<0.01	<0.01		<0.01	<0.01	<0.01			<0.01	<0.01	
Aromatic C7-C8	mg/kg	0	106827.801	1920.00	<0.01			<0.01	<0.01		<0.01	<0.01	<0.01			<0.01	<0.01	
Aromatic C8-C10	mg/kg	0	8110	1500.00	<0.01			<0.01	<0.01		<0.01	<0.01	<0.01			<0.01	<0.01	
Aromatic C10-C12	mg/kg	0	27900	899.00	<0.1			<0.1	<0.1		<0.1	<0.1	<0.1			1	<0.1	
Aromatic C12-C16	mg/kg	0	37300	419.00	<0.1			<0.1	<0.1		2.2	2	1.9			27.3	<0.1	
Aromatic C16-C21	mg/kg	0	27700	134.00	<0.1			<0.1	<0.1		4.1	3.2	5.5			88.3	1.6	
Aromatic C21-C35	mg/kg	0	28400	12.10	<0.1			<0.1	<0.1		2.9	5	8.4			236	12.5	
Total Aromatic C5-C35	mg/kg	0			<0.1			<0.1	<0.1		9.2	10.2	15.8			353	14.1	
TPH Ali/Aro Total	mg/kg	0			<0.1			<0.1	<0.1		9.2	10.2	15.8			1060	14.1	
BTEX																		
Benzene	mg/kg	0	47.4622464		<0.01			<0.01	<0.01		<0.01	<0.01	<0.01			<0.01	<0.01	
Toluene	mg/kg	0	106827.801	1920.00	<0.01			<0.01	<0.01		<0.01	<0.01	<0.01			<0.01	<0.01	
Ethylbenzene	mg/kg	0	12833.73	1220.00	<0.01			<0.01	<0.01		<0.01	<0.01	<0.01			<0.01	<0.01	
o-Xylene	mg/kg	0	15034.0828	1120.00	<0.01			<0.01	<0.01		<0.01	<0.01	<0.01			<0.01	<0.01	
m&p-Xylene	mg/kg	0	13552.379	1350.00	<0.01			<0.01	<0.01		<0.01	<0.01	<0.01			<0.01	<0.01	
Methyl Tert-Butyl Ether (MTBE)	mg/kg	0	12100		<0.01			<0.01	<0.01		<0.01	<0.01	<0.01			<0.01	<0.01	
PAHs																		
Naphthalene	mg/kg	0	462	183.00	<0.03			<0.03	<0.03		<0.03	<0.03	<0.03			0.18	<0.03	
Acenaphthylene	mg/kg	0	96800	212.00	<0.01			<0.01	<0.01		<0.01	0.02	0.02			0.02	0.02	
Acenaphthene	mg/kg	0	97100	141.00	<0.01			<0.01	<0.01		0.08	<0.01	0.16			0.73	0.06	
Fluorene	mg/kg	0	68400	76.50	<0.01			<0.01	<0.01		0.08	0.01	0.14			0.52	0.06	
Phenanthrene	mg/kg	0	22300	89.60	<0.03			<0.03	<0.03		0.67	0.2	0.94			1.63	0.54	
Anthracene	mg/kg	0	536000	2.91	<0.02			<0.02	<0.02		0.21	0.07	0.23			0.22	0.19	
Fluoranthene	mg/kg	0	22700	47.30	<0.08			<0.08	<0.08		1.28	0.54	2.22			1.66	1.23	
Pyrene	mg/kg	0	54400	5.49	<0.07			<0.07	<0.07		1.31	0.46	2.26			1.24	1.07	
Benzo(a)anthracene	mg/kg	0	174	4.28	<0.04			<0.04	<0.04		0.61	0.28	1.04			0.43	0.59	

E 3.1 Airport Access Road Human Health Screening Assessment

Criteria:
Commercial 2.5%

Sample ID	CPPF35	PFCP20	PFCP30	PFCP35A	PFCP56	PFCP57	PFCP60	PFCP61	PFCPR01	PFCPR02	PFCPR03	PFCPRC04	PFCPRC04	PFCPRC11
Depth	0.40	0.70	0.30	5.80	0.60	1.00	0.30	0.50	1.00	0.70	0.30	0.60	3.50	0.30
Strata	MG	MG	MG	MG	MG	MG	MG	MG	MG	Clay	MG	MG	MG	MG

Contaminant Name	Units	No. of Exceedances	Screening Value	Saturation Limit														
Chrysene	mg/kg	0	352	1.10														
Benzo(b)fluoranthene	mg/kg	0	44.7	3.04														
Benzo(k)fluoranthene	mg/kg	0	1180	1.72														
Benzo(a)pyrene	mg/kg	0	35.5	2.28														
Indeno(1,2,3-c,d)pyrene	mg/kg	0	506	0.15														
Dibenzo(a,h)anthracene	mg/kg	0	3.55	0.0098														
Benzo(g,h,i)perylene	mg/kg	0	3950	0.04														
PAH - USEPA 16, Total	mg/kg	0																
Chloroalkanes & Alkanes (VOC/SVOC)																		
1,2-Dichloroethane	mg/kg	0	0.967															
1,1,1-Trichloroethane	mg/kg	0	1350															
1,1,1,2-Tetrachloroethane	mg/kg	0	546															
1,1,1,2-Tetrachloroethane (PCA)	mg/kg	0	247															
Tetrachloroethene (Tetrachloroethylene)	mg/kg	0	41.6															
Tetrachloromethane (Carbon tetrachloride)	mg/kg	0	6.28															
Trichloroethene (trichloroethylene)	mg/kg	0	2.57															
Trichloromethane (Chloroform)	mg/kg	0	174															
Vinyl Chloride (chloroethene, chloroethene)	mg/kg	0	0.0767															
Chlorobenzenes (VOC/SVOC)																		
Chlorobenzene	mg/kg	0	125															
1,2-Dichlorobenzene	mg/kg	0	4830	1370.00														
1,3-Dichlorobenzene	mg/kg	0	70.6															
1,4-Dichlorobenzene	mg/kg	0	9700	540.00														
1,2,3-Trichlorobenzene	mg/kg	0	250															
1,2,4-Trichlorobenzene	mg/kg	0	530															
Chlorophenols (VOC/SVOC)																		
Phenol	mg/kg	0	30000															
2-Chlorophenol	mg/kg	0	3980															
2,4-Dichlorophenol	mg/kg	0	3890															
2,4,6-Trichlorophenol	mg/kg	0	4160	2020.00														
Pentachlorophenol	mg/kg	0	403	39.10														
BTEX (VOC/SVOC)																		
Benzene	mg/kg	0	47.46															
Toluene	mg/kg	0	106827.80	1920.00														
Ethylbenzene	mg/kg	0	12833.73	1220.00														
o-Xylene	mg/kg	0	15034.08	1120.00														
p & m-Xylene	mg/kg	0	13552.38	1350.00														
VOCs																		
(4) p-Isopropyltoluene	mg/kg	0																
1,1,2-Trichloroethane	mg/kg	0	180															
1,1-Dichloroethane	mg/kg	0	425															
1,1-Dichloroethene (1,1-Dichloroethylene)	mg/kg	0	43															
1,1-Dichloropropene	mg/kg	0																
1,2,4-Trimethylbenzene	mg/kg	0	93.5															
1,2-Dibromo-3-chloropropane	mg/kg	0																
1,2-Dibromoethane	mg/kg	0																
1,2-Dichloropropane	mg/kg	0	5.54															
1,3,5-Trimethylbenzene	mg/kg	0																
1,3-Dichloropropane	mg/kg	0																
2,2-Dichloropropane	mg/kg	0																
2,4-Dimethylphenol	mg/kg	0	23400	3140.00														
2,4-Dinitrotoluene	mg/kg	0	3750	299.00														
2,6-Dinitrotoluene	mg/kg	0	1870	622.00														
2-Chloronaphthalene	mg/kg	0	902	280.00														
2-Chlorotoluene	mg/kg	0																
2-Methylphenol (o-Cresol, ortho-cresol)	mg/kg	0	175000	32500.00														
4-Chlorotoluene	mg/kg	0																
Bromobenzene	mg/kg	0	211															
Bromochloromethane	mg/kg	0																
Bromoform (Tribromomethane)	mg/kg	0	1430															
Bromomethane	mg/kg	0																
Chloroethane	mg/kg	0	1230															
Chloromethane	mg/kg	0	1.12															

E 3.1 Airport Access Road Human Health Screening Assessment

Criteria:
Commercial 2.5%

Sample ID	CPPF35	PFCP20	PFCP30	PFCP35A	PFCP56	PFCP57	PFCP60	PFCP61	PFCPR01	PFCPR02	PFCPR03	PFCPRC04	PFCPRC04	PFCPRC11
Depth	0.40	0.70	0.30	5.80	0.60	1.00	0.30	0.50	1.00	0.70	0.30	0.60	3.50	0.30
Strata	MG	MG	MG	MG	MG	MG	MG	MG	MG	Clay	MG	MG	MG	MG

Contaminant Name	Units	No. of Exceedances	Screening Value	Saturation Limit															
Cis-1,2-dichloroethene (Cis-1,2-dichloroethylene)	mg/kg	0	22.9																
Cis-1,3-dichloropropene	mg/kg	0																	
Dibromochloromethane	mg/kg	0																	
Dibromomethane	mg/kg	0																	
Dichlorodifluoromethane	mg/kg	0																	
Dichloromethane	mg/kg	0	339																
Hexachlorobutadiene	mg/kg	0																	
Hexachloroethane	mg/kg	0	49.8	20.10															
Isopropylbenzene	mg/kg	0	3130	950.00															
n-Butylbenzene	mg/kg	0																	
n-Propylbenzene (Propylbenzene)	mg/kg	0	9150	981.00															
sec-Butylbenzene	mg/kg	0																	
Styrene	mg/kg	0	6180	1440.00															
tert-Butylbenzene	mg/kg	0																	
Trans-1,2-dichloroethene (Trans-1,2-dichloroethylene)	mg/kg	0	37.4																
Trans-1,3-dichloropropene	mg/kg	0																	
Trichlorofluoromethane	mg/kg	0																	
SVOCs																			
1,2,3-Trichloropropane	mg/kg	0																	
2,4,5-Trichlorophenol	mg/kg	0																	
2-Methylnaphthalene	mg/kg	0																	
2-Nitrophenol	mg/kg	0																	
3 & 4 Methylphenol	mg/kg	0																	
4-Chloro-3-methylphenol (p-Chlorocresol)	mg/kg	0																	
4-Nitrophenol	mg/kg	0																	
Bis(2-chloroethoxy)methane	mg/kg	0																	
Bis(2-chloroethyl)ether	mg/kg	0																	
Bis(2-chloroisopropyl)ether	mg/kg	0																	
bis(2-ethylhexyl)phthalate (Bis (2-ethylhexyl) phthalate)	mg/kg	0	85800	21.60															
Butyl benzyl phthalate (Benzyl butyl phthalate)	mg/kg	0	944000	64.70															
Carbazole	mg/kg	0																	
Carbon Disulphide	mg/kg	0	21.8																
Dibenzofuran	mg/kg	0																	
Dibutyl phthalate (Di-n-butyl phthalate)	mg/kg	0	15400	11.40															
Di-n-octyl phthalate	mg/kg	0	89100	81.50															
Hexachlorobutadiene	mg/kg	0	66.2																
Hexachlorocyclopentadiene	mg/kg	0																	
Isophorone	mg/kg	0																	
Nitrobenzene	mg/kg	0																	
Other/Additional																			
n-Nitroso-n-dipropylamine	mg/kg	0																	
Perylene	mg/kg	0																	

E 3.1 Airport Access Road Human Health Screening Assessment

Criteria:

Commercial 2.5%

Sample ID	PFCPRC12	PFCPRC12	PFCPRC15	PFCPRC16	PFCPRC17	PFCPRC17	PFCPRC21	PFCPRC22	PFCPRC22	PFCPRC23	PFCPRC23	PFCPRC23
Depth	0.30	0.80	1.00	0.50	0.70	4.00	1.00	1.00	7.20	2.00	6.00	13.00
Strata	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG

Contaminant Name	Units	No. of Exceedances	Screening Value	Saturation Limit													
Metals																	
Arsenic	mg/kg	0	635.00				3	8	4	<1	11	2	4	<1	2	<1	3
Barium	mg/kg	0	22100.00				363	1310	37	156	2160	925	563	125	585	98	156
Beryllium	mg/kg	0	11.70				<1	1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Boron, Water Soluble	mg/kg	0	236000.00				<1.0	7.1	<1.0	<1.0	2.3	<1.0	<1.0	<1.0	<1.0	<1.0	1.7
Cadmium	mg/kg	0	190.00				1.4	1.5	0.7	<0.5	8.3	<0.5	1	<0.5	0.8	<0.5	0.6
Chromium III	mg/kg	0	8570.00				84	27	18	6	210	10	20	8	13	6	15
Chromium, Hexavalent (VI)	mg/kg	0	32.80				<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Copper	mg/kg	0	68300.00				112	38	4	8	312	17	20	20	21	7	46
Lead	mg/kg	0	2300.00				33	105	25	6	405	52	31	13	34	12	20
Mercury (Inorganic)	mg/kg	0	1120.00				0.82	1.32	<0.17	0.39	5.07	0.64	0.92	0.79	0.78	0.89	0.55
Nickel	mg/kg	0	983.00				66	24	7	6	67	9	49	9	11	7	19
Selenium	mg/kg	0	12261.00				<1	<1	<1	<1	2	<1	<1	<1	<1	<1	<1
Vanadium	mg/kg	0	6360.00														
Zinc	mg/kg	0	730000.00				90	135	25	33	1680	64	81	30	142	29	35
Acidity / Alkalinity																	
pH	pH Units	0					8.2	9.66	8.34	8.44	7.5	8.17	8.4	8.32	8.29	8.37	7.96
Miscellaneous																	
Soil Organic Matter	%	0					8.4	3.9	0.2	0.4	5.9	0.8	1.2	0.3	0.5	0.3	1
Physical Tests																	
Stone Content	0	0					4	8.4	1.1	<0.1	<0.1	<0.1	7.3	2.6	<0.1	<0.1	<0.1
Asbestos																	
Asbestos Screen	0	0					NAD	NAD					NAD	NAD			
Asbestos Type	0	0															
Asbestos Type2	0	0															
Asbestos Quantification (Total)	0	0															
Total Petroleum Hydrocarbons Criteria Working Group																	
Aliphatic C5-C6	mg/kg	0	5860	558.00			<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Aliphatic C6-C8	mg/kg	0	17400	322.00			<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Aliphatic C8-C10	mg/kg	0	4850	190.00			<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Aliphatic C10-C12	mg/kg	0	22900	118.00			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aliphatic C12-C16	mg/kg	0	81700	59.10			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	6.9
Aliphatic C16-C21	mg/kg	0	10700000	21.20			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1	<0.1	<0.1	9.9
Aliphatic C21-C35	mg/kg	0	10700000	21.20			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	10.5	<0.1	<0.1	27.3
Total Aliphatic	mg/kg	0					<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	11.5	<0.1	<0.1	44.2
Aromatic C5-C7	mg/kg	0	47.00				<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Aromatic C7-C8	mg/kg	0	106827.801	1920.00			<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Aromatic C8-C10	mg/kg	0	8110	1500.00			<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Aromatic C10-C12	mg/kg	0	27900	899.00			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aromatic C12-C16	mg/kg	0	37300	419.00			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aromatic C16-C21	mg/kg	0	27700	134.00			<0.1	<0.1	<0.1	<0.1	0.4	<0.1	1.8	<0.1	<0.1	<0.1	<0.1
Aromatic C21-C35	mg/kg	0	28400	12.10			<0.1	<0.1	<0.1	<0.1	0.4	<0.1	4.6	<0.1	<0.1	<0.1	<0.1
Total Aromatic C5-C35	mg/kg	0					<0.1	<0.1	<0.1	<0.1	0.8	<0.1	6.4	<0.1	<0.1	<0.1	<0.1
TPH Ali/Aro Total	mg/kg	0					<0.1	<0.1	<0.1	<0.1	0.8	<0.1	6.4	11.5	<0.1	<0.1	44.2
BTEX																	
Benzene	mg/kg	0	47.4622464				<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Toluene	mg/kg	0	106827.801	1920.00			<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Ethylbenzene	mg/kg	0	12833.73	1220.00			<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
o-Xylene	mg/kg	0	15034.0828	1120.00			<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
m&p-Xylene	mg/kg	0	13552.379	1350.00			<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Methyl Tert-Butyl Ether (MTBE)	mg/kg	0	12100				<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PAHs																	
Naphthalene	mg/kg	0	462	183.00			<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Acenaphthylene	mg/kg	0	96800	212.00			<0.01	<0.01	<0.01	<0.01	0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01
Acenaphthene	mg/kg	0	97100	141.00			<0.01	<0.01	<0.01	<0.01	0.04	<0.01	0.06	<0.01	<0.01	0.02	0.01
Fluorene	mg/kg	0	68400	76.50			<0.01	<0.01	<0.01	<0.01	0.04	<0.01	0.03	0.01	<0.01	<0.01	0.02
Phenanthrene	mg/kg	0	22300	89.60			0.07	0.12	<0.03	<0.03	0.4	0.19	0.43	0.22	0.06	0.18	0.13
Anthracene	mg/kg	0	536000	2.91			<0.02	0.02	<0.02	<0.02	0.06	0.05	0.1	0.1	0.03	0.05	0.05
Fluoranthene	mg/kg	0	22700	47.30			0.09	0.25	<0.08	<0.08	0.69	0.42	0.87	0.37	0.15	0.23	0.16
Pyrene	mg/kg	0	54400	5.49			0.09	0.22	<0.07	<0.07	0.59	0.39	0.73	0.31	0.15	0.18	0.16
Benzo(a)anthracene	mg/kg	0	174	4.28			<0.04	0.15	<0.04	<0.04	0.33	0.26	0.43	0.19	0.11	0.09	0.06

E 3.1 Airport Access Road Human Health Screening Assessment

Criteria:
Commercial 2.5%

Sample ID	PFCPRC12	PFCPRC12	PFCPRC15	PFCPRC16	PFCPRC17	PFCPRC17	PFCPRC21	PFCPRC22	PFCPRC22	PFCPRC23	PFCPRC23	PFCPRC23
Depth	0.30	0.80	1.00	0.50	0.70	4.00	1.00	1.00	7.20	2.00	6.00	13.00
Strata	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG

Contaminant Name	Units	No. of Exceedances	Screening Value	Saturation Limit														
Chrysene	mg/kg	0	352	1.10														
Benzo(b)fluoranthene	mg/kg	0	44.7	3.04														
Benzo(k)fluoranthene	mg/kg	0	1180	1.72														
Benzo(a)pyrene	mg/kg	0	35.5	2.28														
Indeno(1,2,3-c,d)pyrene	mg/kg	0	506	0.15														
Dibenzo(a,h)anthracene	mg/kg	0	3.55	0.0098														
Benzo(g,h,i)perylene	mg/kg	0	3950	0.04														
PAH - USEPA 16, Total	mg/kg	0																
Chloroalkanes & Alkanes (VOC/SVOC)																		
1,2-Dichloroethane	mg/kg	0	0.967															
1,1,1-Trichloroethane	mg/kg	0	1350															
1,1,2,2-Tetrachloroethane	mg/kg	0	546															
1,1,1,2-Tetrachloroethane (PCA)	mg/kg	0	247															
Tetrachloroethene (Tetrachloroethylene)	mg/kg	0	41.6															
Tetrachloromethane (Carbon tetrachloride)	mg/kg	0	6.28															
Trichloroethene (trichloroethylene)	mg/kg	0	2.57															
Trichloromethane (Chloroform)	mg/kg	0	174															
Vinyl Chloride (chloroethene, chloroethene)	mg/kg	0	0.0767															
Chlorobenzenes (VOC/SVOC)																		
Chlorobenzene	mg/kg	0	125															
1,2-Dichlorobenzene	mg/kg	0	4830	1370.00														
1,3-Dichlorobenzene	mg/kg	0	70.6															
1,4-Dichlorobenzene	mg/kg	0	9700	540.00														
1,2,3-Trichlorobenzene	mg/kg	0	250															
1,2,4-Trichlorobenzene	mg/kg	0	530															
Chlorophenols (VOC/SVOC)																		
Phenol	mg/kg	0	30000															
2-Chlorophenol	mg/kg	0	3980															
2,4-Dichlorophenol	mg/kg	0	3890															
2,4,6-Trichlorophenol	mg/kg	0	4160	2020.00														
Pentachlorophenol	mg/kg	0	403	39.10														
BTEX (VOC/SVOC)																		
Benzene	mg/kg	0	47.46															
Toluene	mg/kg	0	106827.80	1920.00														
Ethylbenzene	mg/kg	0	12833.73	1220.00														
o-Xylene	mg/kg	0	15034.08	1120.00														
p & m-Xylene	mg/kg	0	13552.38	1350.00														
VOCs																		
(4) p-Isopropyltoluene	mg/kg	0																
1,1,2-Trichloroethane	mg/kg	0	180															
1,1-Dichloroethane	mg/kg	0	425															
1,1-Dichloroethene (1,1-Dichloroethylene)	mg/kg	0	43															
1,1-Dichloropropene	mg/kg	0																
1,2,4-Trimethylbenzene	mg/kg	0	93.5															
1,2-Dibromo-3-chloropropane	mg/kg	0																
1,2-Dibromoethane	mg/kg	0																
1,2-Dichloropropane	mg/kg	0	5.54															
1,3,5-Trimethylbenzene	mg/kg	0																
1,3-Dichloropropane	mg/kg	0																
2,2-Dichloropropane	mg/kg	0																
2,4-Dimethylphenol	mg/kg	0	23400	3140.00														
2,4-Dinitrotoluene	mg/kg	0	3750	299.00														
2,6-Dinitrotoluene	mg/kg	0	1870	622.00														
2-Chloronaphthalene	mg/kg	0	902	280.00														
2-Chlorotoluene	mg/kg	0																
2-Methylphenol (o-Cresol, ortho-cresol)	mg/kg	0	175000	32500.00														
4-Chlorotoluene	mg/kg	0																
Bromobenzene	mg/kg	0	211															
Bromochloromethane	mg/kg	0																
Bromoform (Tribromomethane)	mg/kg	0	1430															
Bromomethane	mg/kg	0																
Chloroethane	mg/kg	0	1230															
Chloromethane	mg/kg	0	1.12															

E 3.1 Airport Access Road Human Health Screening Assessment

Criteria:
Commercial 2.5%

Sample ID	PFCPRC23	PFCPRC24	PFCPRC24	PFCPRC24	PFCPRC24	PFCPRC25	PFCPRC25	PFCPRC25	PFCPRC25	PFCPRC26	PFCPRC26
Depth	13.40	1.00	5.00	10.50	15.00	1.00	4.00	6.00	12.00	0.60	3.00
Strata	Chalk	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG

Contaminant Name	Units	No. of Exceedances	Screening Value	Saturation Limit												
Metals																
Arsenic	mg/kg	0	635.00			7	3	<1	1	12	5	3	4	3	7	<1
Barium	mg/kg	0	22100.00			506	482	37	253	2140	95	299	330	284	80	47
Beryllium	mg/kg	0	11.70			1	1	<1	<1	2	1	<1	1	<1	1	<1
Boron, Water Soluble	mg/kg	0	236000.00			5	<1.0	<1.0	<1.0	4.8	<1.0	1.2	2.2	2.3	2.4	<1.0
Cadmium	mg/kg	0	190.00			<0.5	<0.5	<0.5	<0.5	2.9	2.2	0.7	1	0.9	2.2	<0.5
Chromium III	mg/kg	0	8570.00			29	13	2	12	55	41	21	24	11	36	2
Chromium, Hexavalent (VI)	mg/kg	0	32.80			<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Copper	mg/kg	0	68300.00			27	18	3	24	121	13	32	39	32	12	3
Lead	mg/kg	0	2300.00			40	31	2	19	241	23	38	44	33	20	3
Mercury (Inorganic)	mg/kg	0	1120.00			0.28	0.71	0.75	0.86	1.89	<0.17	0.61	0.48	0.41	<0.17	0.56
Nickel	mg/kg	0	983.00			28	11	2	12	50	18	23	31	16	19	2
Selenium	mg/kg	0	12261.00			<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1
Vanadium	mg/kg	0	6360.00													
Zinc	mg/kg	0	730000.00			85	69	18	51	429	41	57	58	103	39	14
Acidity / Alkalinity																
pH	pH Units	0				7.95	8.31	8.57	8.35	7.89	7.83	8.2	8.16	8.33	7.67	8.69
Miscellaneous																
Soil Organic Matter	%	0				2.1	<0.1	0.4	9.1	5.6	1.5	0.8	1.4	1	1.7	<0.34
Physical Tests																
Stone Content	0	0				2.6	8.4	<0.1	<0.1	7.4	9.9	<0.1	4.7	5.1	16.7	<0.1
Asbestos																
Asbestos Screen	0	0														
Asbestos Type	0	0														
Asbestos Type2	0	0														
Asbestos Quantification (Total)	0	0														
Total Petroleum Hydrocarbons Criteria Working Group																
Aliphatic C5-C6	mg/kg	0	5860	558.00		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Aliphatic C6-C8	mg/kg	0	17400	322.00		<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Aliphatic C8-C10	mg/kg	0	4850	190.00		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	0.02	<0.01	0.05	<0.01
Aliphatic C10-C12	mg/kg	0	22900	118.00		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.6	<0.1	1.5	<0.1
Aliphatic C12-C16	mg/kg	0	81700	59.10		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	3.3	<0.1	13.9	<0.1
Aliphatic C16-C21	mg/kg	0	10700000	21.20		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	15.2	<0.1	27.2	<0.1
Aliphatic C21-C35	mg/kg	0	10700000	21.20		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	4.6	76.8	<0.1	95.2	<0.1
Total Aliphatic	mg/kg	0				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	4.6	96	<0.1	138	<0.1
Aromatic C5-C7	mg/kg	0	47.00			<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Aromatic C7-C8	mg/kg	0	106827.801	1920.00		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Aromatic C8-C10	mg/kg	0	8110	1500.00		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	0.17	<0.01
Aromatic C10-C12	mg/kg	0	27900	899.00		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	5.3	<0.1
Aromatic C12-C16	mg/kg	0	37300	419.00		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.5	<0.1	13.4	<0.1
Aromatic C16-C21	mg/kg	0	27700	134.00		<0.1	<0.1	<0.1	1.1	4.4	<0.1	<0.1	9.6	<0.1	11.1	<0.1
Aromatic C21-C35	mg/kg	0	28400	12.10		0.3	0.4	<0.1	8.3	31.9	<0.1	<0.1	35.2	<0.1	12	<0.1
Total Aromatic C5-C35	mg/kg	0				0.3	0.4	<0.1	9.3	36.4	<0.1	<0.1	46.4	<0.1	42	<0.1
TPH Ali/Aro Total	mg/kg	0				0.3	0.4	<0.1	9.3	36.4	<0.1	4.6	142	<0.1	180	<0.1
BTEX																
Benzene	mg/kg	0	47.4622464			<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Toluene	mg/kg	0	106827.801	1920.00		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Ethylbenzene	mg/kg	0	12833.73	1220.00		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
o-Xylene	mg/kg	0	15034.0828	1120.00		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
m&p-Xylene	mg/kg	0	13552.379	1350.00		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Methyl Tert-Butyl Ether (MTBE)	mg/kg	0	12100			<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PAHs																
Naphthalene	mg/kg	0	462	183.00		<0.03	<0.03	<0.03	<0.03	0.06	<0.03	<0.03	<0.03	<0.03	0.06	<0.03
Acenaphthylene	mg/kg	0	96800	212.00		0.02	0.01	<0.01	<0.01	0.04	<0.01	<0.01	<0.01	<0.01	<0.03	<0.01
Acenaphthene	mg/kg	0	97100	141.00		<0.01	<0.01	<0.01	0.05	0.06	<0.01	0.01	0.03	<0.01	0.1	<0.01
Fluorene	mg/kg	0	68400	76.50		<0.01	<0.01	<0.01	0.02	0.07	<0.01	0.01	0.05	<0.01	0.21	<0.01
Phenanthrene	mg/kg	0	22300	89.60		0.19	0.05	<0.03	0.19	0.93	<0.03	0.07	0.12	<0.03	0.43	<0.03
Anthracene	mg/kg	0	536000	2.91		0.08	0.03	<0.02	0.05	0.19	<0.02	<0.02	0.03	<0.02	<0.05	<0.02
Fluoranthene	mg/kg	0	22700	47.30		0.61	0.38	<0.08	0.33	2.62	<0.08	0.13	0.14	<0.08	0.35	<0.08
Pyrene	mg/kg	0	54400	5.49		0.57	0.9	<0.07	0.35	2.3	<0.07	0.13	0.14	<0.07	0.41	<0.07
Benzo(a)anthracene	mg/kg	0	174	4.28		0.33	0.19	<0.04	0.16	1.14	<0.04	0.06	0.06	<0.04	0.23	<0.04

E 3.1 Airport Access Road Human Health Screening Assessment

Criteria:

Commercial 2.5%

Sample ID	PFCPRC26	PFCPRC26	PFCPRC27	PFCPRC27	PFCPRC27	PFCPRC27	PFCPRC27	PFCPRC28	PFCPRC28	PFCPRC28	PFCPRC28	PFCPRC28	PFCPRC29
Depth	6.00	12.00	0.60	2.00	5.00	8.00	1.00	9.00	11.00	14.80	0.70		
Strata	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	Possible MG	MG	

Contaminant Name	Units	No. of Exceedances	Screening Value	Saturation Limit												
Metals																
Arsenic	mg/kg	0	635.00			2	<1	2	2	3	3	3	4	3	11	5
Barium	mg/kg	0	22100.00			473	63	310	488	808	616	764	296	537	996	398
Beryllium	mg/kg	0	11.70			<1	<1	1	<1	1	<1	<1	<1	<1	1	1
Boron, Water Soluble	mg/kg	0	236000.00			1.6	2	<1.0	<1.0	1.2	1.1	<1.0	1.1	1.8	15.8	<1.0
Cadmium	mg/kg	0	190.00			0.8	<0.5	<0.5	<0.5	<0.5	<0.5	1.1	1	0.8	10.6	1.5
Chromium III	mg/kg	0	8570.00			14	7	26	12	14	24	14	12	14	114	21
Chromium, Hexavalent (VI)	mg/kg	0	32.80			<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Copper	mg/kg	0	68300.00			27	7	28	35	27	46	30	29	29	294	29
Lead	mg/kg	0	2300.00			31	8	53	22	30	36	32	25	35	431	39
Mercury (Inorganic)	mg/kg	0	1120.00			0.52	0.63	0.35	0.99	0.85	0.95	1.06	0.68	1.26	5.31	0.57
Nickel	mg/kg	0	983.00			13	8	18	9	15	23	11	14	15	67	16
Selenium	mg/kg	0	12261.00			<1	<1	<1	<1	<1	<1	<1	<1	<1	2	<1
Vanadium	mg/kg	0	6360.00													
Zinc	mg/kg	0	730000.00			65	23	68	72	67	76	82	45	66	1040	77
Acidity / Alkalinity																
pH	pH Units	0				8.22	8.32	8.65	8.27	8.19	8.2	8.23	8.13	8.3	7.4	8.53
Miscellaneous																
Soil Organic Matter	%	0				0.7	0.4	0.3	0.7	1.1	2.4	0.4	1.1	0.6	10.2	1.2
Physical Tests																
Stone Content	0	0				<0.1	4	18.8	<0.1	<0.1	<0.1	7.7	4.3	1.2	4.6	17.9
Asbestos																
Asbestos Screen	0	0														
Asbestos Type	0	0														
Asbestos Type2	0	0														
Asbestos Quantification (Total)	0	0														
Total Petroleum Hydrocarbons Criteria Working Group																
Aliphatic C5-C6	mg/kg	0	5860	558.00		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Aliphatic C6-C8	mg/kg	0	17400	322.00		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Aliphatic C8-C10	mg/kg	0	4850	190.00		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Aliphatic C10-C12	mg/kg	0	22900	118.00		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aliphatic C12-C16	mg/kg	0	81700	59.10		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aliphatic C16-C21	mg/kg	0	10700000	21.20		<0.1	<0.1	2.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aliphatic C21-C35	mg/kg	0	10700000	21.20		<0.1	<0.1	151	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Aliphatic	mg/kg	0				<0.1	<0.1	153	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aromatic C5-C7	mg/kg	0	47.00			<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Aromatic C7-C8	mg/kg	0	106827.801	1920.00		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Aromatic C8-C10	mg/kg	0	8110	1500.00		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Aromatic C10-C12	mg/kg	0	27900	899.00		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aromatic C12-C16	mg/kg	0	37300	419.00		<0.1	<0.1	0.7	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aromatic C16-C21	mg/kg	0	27700	134.00		<0.1	<0.1	19.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aromatic C21-C35	mg/kg	0	28400	12.10		<0.1	<0.1	188	<0.1	<0.1	0.6	<0.1	<0.1	<0.1	<0.1	1.9
Total Aromatic C5-C35	mg/kg	0				<0.1	<0.1	208	<0.1	<0.1	0.6	<0.1	<0.1	<0.1	<0.1	1.9
TPH Ali/Aro Total	mg/kg	0				<0.1	<0.1	361	<0.1	<0.1	0.6	<0.1	<0.1	<0.1	<0.1	1.9
BTEX																
Benzene	mg/kg	0	47.4622464			<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Toluene	mg/kg	0	106827.801	1920.00		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Ethylbenzene	mg/kg	0	12833.73	1220.00		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
o-Xylene	mg/kg	0	15034.0828	1120.00		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
m&p-Xylene	mg/kg	0	13552.379	1350.00		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Methyl Tert-Butyl Ether (MTBE)	mg/kg	0	12100			<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PAHs																
Naphthalene	mg/kg	0	462	183.00		<0.03	<0.03	<0.30	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Acenaphthylene	mg/kg	0	96800	212.00		<0.01	<0.01	<0.10	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Acenaphthene	mg/kg	0	97100	141.00		<0.01	<0.01	<0.10	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01
Fluorene	mg/kg	0	68400	76.50		<0.01	<0.01	<0.10	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01
Phenanthrene	mg/kg	0	22300	89.60		<0.03	<0.03	0.75	0.06	0.05	0.08	0.13	0.06	<0.03	0.05	0.17
Anthracene	mg/kg	0	536000	2.91		<0.02	<0.02	0.64	0.04	<0.02	0.04	0.03	<0.02	<0.02	<0.02	0.03
Fluoranthene	mg/kg	0	22700	47.30		<0.08	<0.08	2.35	0.2	0.12	0.19	0.38	0.12	<0.08	0.1	0.44
Pyrene	mg/kg	0	54400	5.49		<0.07	<0.07	2.02	0.2	0.11	0.16	0.37	0.11	<0.07	0.09	0.38
Benzo(a)anthracene	mg/kg	0	174	4.28		<0.04	<0.04	1.25	0.1	0.07	0.09	0.19	0.06	<0.04	0.05	0.22

E 3.1 Airport Access Road Human Health Screening Assessment

Criteria:
Commercial 2.5%

Sample ID	PFCPRC26	PFCPRC26	PFCPRC27	PFCPRC27	PFCPRC27	PFCPRC27	PFCPRC27	PFCPRC28	PFCPRC28	PFCPRC28	PFCPRC28	PFCPRC28	PFCPRC29
Depth	6.00	12.00	0.60	2.00	5.00	8.00	1.00	9.00	11.00	14.80	0.70		
Strata	MG	MG	MG	MG	MG	MG	MG	MG	MG	Possible MG	MG		

Contaminant Name	Units	No. of Exceedances	Screening Value	Saturation Limit															
Chrysene	mg/kg	0	352	1.10		<0.06	<0.06	1.35	0.15	0.08	0.11	0.27	0.08	<0.06	0.08	0.31			
Benzo(b)fluoranthene	mg/kg	0	44.7	3.04		<0.05	<0.05	1.44	0.14	0.08	0.09	0.28	<0.05	<0.05	0.07	0.29			
Benzo(k)fluoranthene	mg/kg	0	1180	1.72		<0.07	<0.07	0.92	0.11	<0.07	<0.07	0.12	<0.07	<0.07	<0.07	0.15			
Benzo(a)pyrene	mg/kg	0	35.5	2.28		<0.04	<0.04	1.47	0.12	0.1	0.06	0.21	<0.04	<0.04	0.06	0.21			
Indeno(1,2,3-c,d)pyrene	mg/kg	0	506	0.15		<0.03	<0.03	1.39	0.12	0.07	0.06	0.24	0.05	<0.03	0.07	0.21			
Dibenzo(a,h)anthracene	mg/kg	0	3.55	0.0098		<0.04	<0.04	<0.40	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04			
Benzo(g,h,i)perylene	mg/kg	0	3950	0.04		<0.05	<0.05	1.28	0.11	0.07	<0.05	0.19	<0.05	<0.05	0.07	0.16			
PAH - USEPA 16, Total	mg/kg	0				<0.08	<0.08	15.2	1.36	0.77	0.9	2.4	0.51	<0.08	0.65	2.58			
Chloroalkanes & Alkanes (VOC/SVOC)																			
1,2-Dichloroethane	mg/kg	0	0.967										<2	<2					
1,1,1-Trichloroethane	mg/kg	0	1350										<1	<1					
1,1,2,2-Tetrachloroethane	mg/kg	0	546										<1	<1					
1,1,1,2-Tetrachloroethane (PCA)	mg/kg	0	247										<1	<1					
Tetrachloroethene (Tetrachloroethylene)	mg/kg	0	41.6										<1	<1					
Tetrachloromethane (Carbon tetrachloride)	mg/kg	0	6.28										<1	<1					
Trichloroethene (trichloroethylene)	mg/kg	0	2.57										<1	<1					
Trichloromethane (Chloroform)	mg/kg	0	174										<1	<1					
Vinyl Chloride (chloroethene, chloroethene)	mg/kg	0	0.0767										<1	<1					
Chlorobenzenes (VOC/SVOC)																			
Chlorobenzene	mg/kg	0	125										<1	<1					
1,2-Dichlorobenzene	mg/kg	0	4830	1370.00									<1	<1					
1,3-Dichlorobenzene	mg/kg	0	70.6										<1	<1					
1,4-Dichlorobenzene	mg/kg	0	9700	540.00									<1	<1					
1,2,3-Trichlorobenzene	mg/kg	0	250										<3	<3					
1,2,4-Trichlorobenzene	mg/kg	0	530										<3	<3					
Chlorophenols (VOC/SVOC)																			
Phenol	mg/kg	0	30000																
2-Chlorophenol	mg/kg	0	3980																
2,4-Dichlorophenol	mg/kg	0	3890																
2,4,6-Trichlorophenol	mg/kg	0	4160	2020.00															
Pentachlorophenol	mg/kg	0	403	39.10															
BTEX (VOC/SVOC)																			
Benzene	mg/kg	0	47.46										<1	<1					
Toluene	mg/kg	0	106827.80	1920.00									<1	<1					
Ethylbenzene	mg/kg	0	12833.73	1220.00									<1	<1					
o-Xylene	mg/kg	0	15034.08	1120.00									<1	<1					
p & m-Xylene	mg/kg	0	13552.38	1350.00									<1	<1					
VOCs																			
(4) p-Isopropyltoluene	mg/kg	0											<1	<1					
1,1,2-Trichloroethane	mg/kg	0	180										<1	<1					
1,1-Dichloroethane	mg/kg	0	425										<1	<1					
1,1-Dichloroethene (1,1-Dichloroethylene)	mg/kg	0	43										<1	<1					
1,1-Dichloropropene	mg/kg	0											<1	<1					
1,2,4-Trimethylbenzene	mg/kg	0	93.5										<1	<1					
1,2-Dibromo-3-chloropropane	mg/kg	0											<2	<2					
1,2-Dibromoethane	mg/kg	0											<1	<1					
1,2-Dichloropropane	mg/kg	0	5.54										<1	<1					
1,3,5-Trimethylbenzene	mg/kg	0											<1	<1					
1,3-Dichloropropane	mg/kg	0											<1	<1					
2,2-Dichloropropane	mg/kg	0											<1	<1					
2,4-Dimethylphenol	mg/kg	0	23400	3140.00															
2,4-Dinitrotoluene	mg/kg	0	3750	299.00															
2,6-Dinitrotoluene	mg/kg	0	1870	622.00															
2-Chloronaphthalene	mg/kg	0	902	280.00															
2-Chlorotoluene	mg/kg	0											<1	<1					
2-Methylphenol (o-Cresol, ortho-cresol)	mg/kg	0	175000	32500.00															
4-Chlorotoluene	mg/kg	0											<1	<1					
Bromobenzene	mg/kg	0	211										<1	<1					
Bromochloromethane	mg/kg	0											<5	<5					
Bromoform (Tribromomethane)	mg/kg	0	1430										<1	<1					
Bromomethane	mg/kg	0											<1	<1					
Chloroethane	mg/kg	0	1230										<1	<1					
Chloromethane	mg/kg	0	1.12										<10	<10					

E 3.1 Airport Access Road Human Health Screening Assessment

Criteria:
Commercial 2.5%

Sample ID	PFCPRC29	PFCPRC29	PFCPRC55	PFCPRC55	PFCPRC55	PFCPRC58	PFCPRC59	PFCPRC10	PFTPH03	PFTPH06A	PFTPH13	PFW501
Depth	4.00	7.00	0.80	2.50	6.00	0.50	1.00	0.30	1.20	0.60	0.60	0.60
Strata	MG	MG	MG	MG	Clay	MG	Unknown	Unknown	MG	MG	MG	MG

Contaminant Name	Units	No. of Exceedances	Screening Value	Saturation Limit													
Chrysene	mg/kg	0	352	1.10		<0.06	<0.06		<0.06	<0.06			<0.06	<0.06	0.27	1	<0.06
Benzo(b)fluoranthene	mg/kg	0	44.7	3.04		<0.05	<0.05		<0.05	<0.05			<0.05	0.09	0.36	1.31	<0.05
Benzo(k)fluoranthene	mg/kg	0	1180	1.72		<0.07	<0.07		<0.07	<0.07			<0.07	<0.07	0.15	0.51	<0.07
Benzo(a)pyrene	mg/kg	0	35.5	2.28		<0.04	<0.04		<0.04	<0.04			<0.04	0.08	0.36	1.19	<0.04
Indeno(1,2,3-c,d)pyrene	mg/kg	0	506	0.15		<0.03	<0.03		<0.03	<0.03			<0.03	0.06	0.31	0.88	<0.03
Dibenzo(a,h)anthracene	mg/kg	0	3.55	0.0098		<0.04	<0.04		<0.04	<0.04			<0.04	<0.04	0.06	0.19	<0.04
Benzo(g,h,i)perylene	mg/kg	0	3950	0.04		<0.05	<0.05		<0.05	<0.05			<0.05	0.05	0.29	0.7	<0.05
PAH - USEPA 16, Total	mg/kg	0				0.25	<0.08		0.25	<0.08			<0.08	0.34	2.8	11.6	<0.08
Chloroalkanes & Alkanes (VOC/SVOC)																	
1,2-Dichloroethane	mg/kg	0	0.967														<2
1,1,1-Trichloroethane	mg/kg	0	1350														<1
1,1,2,2-Tetrachloroethane	mg/kg	0	546														<1
1,1,1,2-Tetrachloroethane (PCA)	mg/kg	0	247														<1
Tetrachloroethene (Tetrachloroethylene)	mg/kg	0	41.6														<1
Tetrachloromethane (Carbon tetrachloride)	mg/kg	0	6.28														<1
Trichloroethene (trichloroethylene)	mg/kg	0	2.57														<1
Trichloromethane (Chloroform)	mg/kg	0	174														<1
Vinyl Chloride (chloroethene, chloroethene)	mg/kg	0	0.0767														<1
Chlorobenzenes (VOC/SVOC)																	
Chlorobenzene	mg/kg	0	125														<1
1,2-Dichlorobenzene	mg/kg	0	4830	1370.00													<1
1,3-Dichlorobenzene	mg/kg	0	70.6														<1
1,4-Dichlorobenzene	mg/kg	0	9700	540.00													<1
1,2,3-Trichlorobenzene	mg/kg	0	250														<3
1,2,4-Trichlorobenzene	mg/kg	0	530														<3
Chlorophenols (VOC/SVOC)																	
Phenol	mg/kg	0	30000														<100
2-Chlorophenol	mg/kg	0	3980														<100
2,4-Dichlorophenol	mg/kg	0	3890														<100
2,4,6-Trichlorophenol	mg/kg	0	4160	2020.00													<100
Pentachlorophenol	mg/kg	0	403	39.10													<100
BTEX (VOC/SVOC)																	
Benzene	mg/kg	0	47.46														<1
Toluene	mg/kg	0	106827.80	1920.00													<1
Ethylbenzene	mg/kg	0	12833.73	1220.00													<1
o-Xylene	mg/kg	0	15034.08	1120.00													<1
p & m-Xylene	mg/kg	0	13552.38	1350.00													<1
VOCs																	
(4) p-Isopropyltoluene	mg/kg	0															<1
1,1,2-Trichloroethane	mg/kg	0	180														<1
1,1-Dichloroethane	mg/kg	0	425														<1
1,1-Dichloroethene (1,1-Dichloroethylene)	mg/kg	0	43														<1
1,1-Dichloropropene	mg/kg	0															<1
1,2,4-Trimethylbenzene	mg/kg	0	93.5														<1
1,2-Dibromo-3-chloropropane	mg/kg	0															<2
1,2-Dibromoethane	mg/kg	0															<1
1,2-Dichloropropane	mg/kg	0	5.54														<1
1,3,5-Trimethylbenzene	mg/kg	0															<1
1,3-Dichloropropane	mg/kg	0															<1
2,2-Dichloropropane	mg/kg	0															<1
2,4-Dimethylphenol	mg/kg	0	23400	3140.00													<100
2,4-Dinitrotoluene	mg/kg	0	3750	299.00													<100
2,6-Dinitrotoluene	mg/kg	0	1870	622.00													<100
2-Chloronaphthalene	mg/kg	0	902	280.00													<100
2-Chlorotoluene	mg/kg	0															<1
2-Methylphenol (o-Cresol, ortho-cresol)	mg/kg	0	175000	32500.00													<100
4-Chlorotoluene	mg/kg	0															<1
Bromobenzene	mg/kg	0	211														<1
Bromochloromethane	mg/kg	0															<5
Bromoform (Tribromomethane)	mg/kg	0	1430														<1
Bromomethane	mg/kg	0															<1
Chloroethane	mg/kg	0	1230														<1
Chloromethane	mg/kg	0	1.12														<10

E 3.1 Airport Access Road Human Health Screening Assessment

Criteria:

Commercial 2.5%

Sample ID	PFWS01	PFWS02A	PFWS05	PFWS07	PFWS08	PFWS09	PFWS10	PFWS12	PFWS12	PFWS13	PFWS16	PFWS18A	PFWS26	PFWS27	PFWS28
Depth	1.20	0.30	0.80	0.60	0.90	0.50	1.00	0.20	1.00	0.60	0.30	0.20	0.20	0.30	0.40
Strata	MG	MG	Clay	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG

Contaminant Name	Units	No. of Exceedances	Screening Value	Saturation Limit	PFWS01	PFWS02A	PFWS05	PFWS07	PFWS08	PFWS09	PFWS10	PFWS12	PFWS12	PFWS13	PFWS16	PFWS18A	PFWS26	PFWS27	PFWS28
Metals																			
Arsenic	mg/kg	0	635.00		5	5	<1	2	7	4	36	9	<1	11	6		3	6	4
Barium	mg/kg	0	22100.00		80	37	46	85	531	579	69	29	202	77	58		50	145	163
Beryllium	mg/kg	0	11.70		1	<1	1	<1	1	1	1	1	3	1	<1		1	1	2
Boron, Water Soluble	mg/kg	0	236000.00		<1.0	<1.0	3	<1.0	2	1.7	<1.0	<1.0	2.2	1.5	<1.0		<1.0	<1.0	<1.0
Cadmium	mg/kg	0	190.00		1	1.2	0.9	0.7	1.8	1.3	4	0.6	0.7	2.5	1.1		1.1	1.1	1.9
Chromium III	mg/kg	0	8570.00		16	13	12	8	29	21	16	12	17	59	18		25	17	41
Chromium, Hexavalent (VI)	mg/kg	0	32.80		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		<1	<1	<1
Copper	mg/kg	0	68300.00		27	3	6	11	33	18	12	57	22	25	27		13	16	54
Lead	mg/kg	0	2300.00		27	9	8	17	36	29	44	7	16	37	49		13	42	58
Mercury (Inorganic)	mg/kg	0	1120.00		<0.17	<0.17	0.6	0.6	0.66	<0.17	<0.17	<0.17	<0.17	0.18	0.63		<0.17	<0.17	<0.17
Nickel	mg/kg	0	983.00		10	5	15	7	26	18	55	29	8	23	12		18	13	36
Selenium	mg/kg	0	12261.00		1	<1	<1	<1	<1	<1	<1	<1	2	1	<1		<1	<1	<1
Vanadium	mg/kg	0	6360.00																
Zinc	mg/kg	0	730000.00		34	20	29	55	98	74	121	27	38	73	217		38	49	125
Acidity / Alkalinity																			
pH	pH Units	0			7.99	8.05	8.02	8.6	7.91	7.66	8.56	11.14	8.78	7.85	8.81		10.02	8.14	8.04
Miscellaneous																			
Soil Organic Matter	%	0			2.3	0.2	0.4	<0.1	1.4	1.5	0.8	4.7	3.5	0.7	4.2		2.6	2.4	0.6
Physical Tests																			
Stone Content	0	0			35.1	<0.1	<0.1	5.6	<0.1	24.9	23	37.9	17.8	<0.1	3.4		15.8	29.4	5.1
Asbestos																			
Asbestos Screen	0	0			NAD			NAD	NAD	NAD	Chrysotile	Chrysotile	Chrysotile	NAD	NAD	NAD	NAD	NAD	NAD
Asbestos Type	0	0									Loose Fibres	Loose Fibres	Loose Fibres				N/A	N/A	N/A
Asbestos Type2	0	0																	
Asbestos Quantification (Total)	0	0									<0.001	0.002	0.004						
Total Petroleum Hydrocarbons Criteria Working Group																			
Aliphatic C5-C6	mg/kg	0	5860	558.00	<0.01	<0.02	<0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01	<0.01
Aliphatic C6-C8	mg/kg	0	17400	322.00	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01	<0.01
Aliphatic C8-C10	mg/kg	0	4850	190.00	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01	<0.01
Aliphatic C10-C12	mg/kg	0	22900	118.00	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		<0.1	<0.1	<0.1
Aliphatic C12-C16	mg/kg	0	81700	59.10	<0.1	<0.1	0.8	<0.1	<0.1	<0.1	<0.1	1.4	3.8	14.1	<0.1		<0.1	5	<0.1
Aliphatic C16-C21	mg/kg	0	10700000	21.20	1.4	<0.1	14.6	<0.1	<0.1	<0.1	<0.1	6.7	8.6	1.2	<0.1		<0.1	5.5	<0.1
Aliphatic C21-C35	mg/kg	0	10700000	21.20	108	<0.1	77.1	<0.1	<0.1	<0.1	<0.1	12.1	6.8	<0.1	<0.1		<0.1	93.4	<0.1
Total Aliphatic	mg/kg	0			109	<0.1	92.7	<0.1	<0.1	<0.1	<0.1	20.2	19.2	15.3	<0.1		<0.1	104	<0.1
Aromatic C5-C7	mg/kg	0	47.00		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01	<0.01
Aromatic C7-C8	mg/kg	0	106827.801	1920.00	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01	<0.01
Aromatic C8-C10	mg/kg	0	8110	1500.00	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01	<0.01
Aromatic C10-C12	mg/kg	0	27900	899.00	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		<0.1	<0.1	<0.1
Aromatic C12-C16	mg/kg	0	37300	419.00	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	50.4	<0.1	<0.1		1.1	2.1	<0.1
Aromatic C16-C21	mg/kg	0	27700	134.00	3.2	<0.1	12.8	<0.1	<0.1	<0.1	<0.1	2	282	1	<0.1		5.8	3.5	<0.1
Aromatic C21-C35	mg/kg	0	28400	12.10	84.1	<0.1	68.6	<0.1	<0.1	<0.1	<0.1	5.5	342	<0.1	<0.1		30.2	73.1	<0.1
Total Aromatic C5-C35	mg/kg	0			87.4	<0.1	81.3	<0.1	<0.1	<0.1	<0.1	7.8	675	1	<0.1		36.9	78.7	<0.1
TPH Ali/Aro Total	mg/kg	0			196	<0.1	174	<0.1	<0.1	<0.1	<0.1	28	694	16.4	<0.1		36.9	183	<0.1
BTEX																			
Benzene	mg/kg	0	47.4622464		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01	<0.01
Toluene	mg/kg	0	106827.801	1920.00	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01	<0.01
Ethylbenzene	mg/kg	0	12833.73	1220.00	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01	<0.01
o-Xylene	mg/kg	0	15034.0828	1120.00	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01	<0.01
m&p-Xylene	mg/kg	0	13552.379	1350.00	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01	<0.01
Methyl Tert-Butyl Ether (MTBE)	mg/kg	0	12100		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01	<0.01
PAHs																			
Naphthalene	mg/kg	0	462	183.00	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03		<0.03	<0.03	<0.03
Acenaphthylene	mg/kg	0	96800	212.00	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.07	0.12	0.07	<0.01	<0.01		<0.01	<0.01	<0.01
Acenaphthene	mg/kg	0	97100	141.00	<0.01	<0.01	0.01	<0.01	0.01	<0.01	0.05	<0.01	1.19	0.01	<0.01		<0.01	0.03	<0.01
Fluorene	mg/kg	0	68400	76.50	0.01	<0.01	0.01	<0.01	<0.01	<0.01	0.09	<0.01	1.26	<0.01	<0.01		<0.01	0.05	<0.01
Phenanthrene	mg/kg	0	22300	89.60	0.06	<0.03	0.24	<0.03	0.12	0.13	1.45	0.09	12.8	0.26	0.06		0.15	0.11	<0.03
Anthracene	mg/kg	0	536000	2.91	<0.02	<0.02	0.05	<0.02	<0.02	<0.02	0.33	0.04	5.24	0.05	<0.02		0.03	<0.02	<0.02
Fluoranthene	mg/kg	0	22700	47.30	0.09	<0.08	0.69	<0.08	0.3	0.46	3.74	0.68	26.7	0.73	0.27		0.75	<0.08	<0.08
Pyrene	mg/kg	0	54400	5.49	0.09	<0.07	0.56	<0.07	0.26	0.47	3.1	1.33	23.6	0.68	0.27		0.66	<0.07	<0.07
Benzo(a)anthracene	mg/kg	0	174	4.28	0.04	<0.04	0.25	<0.04	0.16	0.2	1.94	0.68	12.6	0.39	0.14		0.44	<0.04	<0.04

E 3.1 Airport Access Road Human Health Screening Assessment

Criteria:

Commercial 2.5%

Sample ID	PFWS01	PFWS02A	PFWS05	PFWS07	PFWS08	PFWS09	PFWS10	PFWS12	PFWS12	PFWS13	PFWS16	PFWS18A	PFWS26	PFWS27	PFWS28
Depth	1.20	0.30	0.80	0.60	0.90	0.50	1.00	0.20	1.00	0.60	0.30	0.20	0.20	0.30	0.40
Strata	MG	MG	Clay	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG

Contaminant Name	Units	No. of Exceedances	Screening Value	Saturation Limit	PFWS01	PFWS02A	PFWS05	PFWS07	PFWS08	PFWS09	PFWS10	PFWS12	PFWS12	PFWS13	PFWS16	PFWS18A	PFWS26	PFWS27	PFWS28
Chrysene	mg/kg	0	352	1.10	0.09	<0.06	0.29	<0.06	0.18	0.3	1.71	0.59	10.6	0.5	0.23		0.46	<0.06	<0.06
Benzo(b)fluoranthene	mg/kg	0	44.7	3.04	0.06	<0.05	0.42	<0.05	0.23	0.29	1.81	0.51	10.3	0.62	0.27		0.65	<0.05	<0.05
Benzo(k)fluoranthene	mg/kg	0	1180	1.72	<0.07	<0.07	0.15	<0.07	0.1	0.11	0.78	0.23	4.76	0.25	0.12		0.27	<0.07	<0.07
Benzo(a)pyrene	mg/kg	0	35.5	2.28	0.04	<0.04	0.28	<0.04	0.23	0.24	1.71	0.63	9.32	0.6	0.2		0.61	<0.04	<0.04
Indeno(1,2,3-c,d)pyrene	mg/kg	0	506	0.15	0.04	<0.03	0.23	<0.03	0.19	0.2	0.92	0.31	4.81	0.42	0.28		0.42	<0.03	<0.03
Dibenzo(a,h)anthracene	mg/kg	0	3.55	0.0098	<0.04	<0.04	<0.04	<0.04	<0.04	0.05	0.23	0.08	1.09	0.08	<0.04		0.1	<0.04	<0.04
Benzo(g,h,i)perylene	mg/kg	0	3950	0.04	0.06	<0.05	0.24	<0.05	0.17	0.16	0.66	0.23	3.42	0.35	0.25		0.34	<0.05	<0.05
PAH - USEPA 16, Total	mg/kg	0			0.58	<0.08	3.45	<0.08	1.96	2.64	18.6	5.55	128	4.97	2.08		4.89	0.19	<0.08
Chloroalkanes & Alkanes (VOC/SVOC)																			
1,2-Dichloroethane	mg/kg	0	0.967		<2							<2							
1,1,1-Trichloroethane	mg/kg	0	1350		<1							<1							
1,1,2,2-Tetrachloroethane	mg/kg	0	546		<1							<1							
1,1,1,2-Tetrachloroethane (PCA)	mg/kg	0	247		<1							<1							
Tetrachloroethene (Tetrachloroethylene)	mg/kg	0	41.6		<1							<1							
Tetrachloromethane (Carbon tetrachloride)	mg/kg	0	6.28		<1							<1							
Trichloroethene (trichloroethylene)	mg/kg	0	2.57		<1							<1							
Trichloromethane (Chloroform)	mg/kg	0	174		<1							<1							
Vinyl Chloride (chloroethene, chloroethene)	mg/kg	0	0.0767		<1							<1							
Chlorobenzenes (VOC/SVOC)																			
Chlorobenzene	mg/kg	0	125		<1							<1							
1,2-Dichlorobenzene	mg/kg	0	4830	1370.00	<1							<1							
1,3-Dichlorobenzene	mg/kg	0	70.6		<1							<1							
1,4-Dichlorobenzene	mg/kg	0	9700	540.00	<1							<1							
1,2,3-Trichlorobenzene	mg/kg	0	250		<3							<3							
1,2,4-Trichlorobenzene	mg/kg	0	530		<3							<3							
Chlorophenols (VOC/SVOC)																			
Phenol	mg/kg	0	30000		<100							<200							
2-Chlorophenol	mg/kg	0	3980		<100							<200							
2,4-Dichlorophenol	mg/kg	0	3890		<100							<200							
2,4,6-Trichlorophenol	mg/kg	0	4160	2020.00	<100							<200							
Pentachlorophenol	mg/kg	0	403	39.10	<100							<200							
BTEX (VOC/SVOC)																			
Benzene	mg/kg	0	47.46		<1							<1							
Toluene	mg/kg	0	106827.80	1920.00	<1							<1							
Ethylbenzene	mg/kg	0	12833.73	1220.00	<1							<1							
o-Xylene	mg/kg	0	15034.08	1120.00	<1							<1							
p & m-Xylene	mg/kg	0	13552.38	1350.00	<1							<1							
VOCs																			
(4) p-Isopropyltoluene	mg/kg	0			<1							<1							
1,1,2-Trichloroethane	mg/kg	0	180		<1							<1							
1,1-Dichloroethane	mg/kg	0	425		<1							<1							
1,1-Dichloroethene (1,1-Dichloroethylene)	mg/kg	0	43		<1							<1							
1,1-Dichloropropene	mg/kg	0			<1							<1							
1,2,4-Trimethylbenzene	mg/kg	0	93.5		<1							<1							
1,2-Dibromo-3-chloropropane	mg/kg	0			<2							<2							
1,2-Dibromoethane	mg/kg	0			<1							<1							
1,2-Dichloropropane	mg/kg	0	5.54		<1							<1							
1,3,5-Trimethylbenzene	mg/kg	0			<1							<1							
1,3-Dichloropropane	mg/kg	0			<1							<1							
2,2-Dichloropropane	mg/kg	0			<1							<1							
2,4-Dimethylphenol	mg/kg	0	23400	3140.00	<100							<200							
2,4-Dinitrotoluene	mg/kg	0	3750	299.00	<100							<200							
2,6-Dinitrotoluene	mg/kg	0	1870	622.00	<100							<200							
2-Chloronaphthalene	mg/kg	0	902	280.00	<100							<200							
2-Chlorotoluene	mg/kg	0			<1							<1							
2-Methylphenol (o-Cresol, ortho-cresol)	mg/kg	0	175000	32500.00	<100							<200							
4-Chlorotoluene	mg/kg	0			<1							<1							
Bromobenzene	mg/kg	0	211		<1							<1							
Bromochloromethane	mg/kg	0			<5							<5							
Bromoform (Tribromomethane)	mg/kg	0	1430		<1							<1							
Bromomethane	mg/kg	0			<1							<1							
Chloroethane	mg/kg	0	1230		<1							<1							
Chloromethane	mg/kg	0	1.12		<10							<10							

E 3.1 Airport Access Road Human Health Screening Assessment

Criteria:

Commercial 2.5%

Sample ID	PFWS01	PFWS02A	PFWS05	PFWS07	PFWS08	PFWS09	PFWS10	PFWS12	PFWS12	PFWS13	PFWS16	PFWS18A	PFWS26	PFWS27	PFWS28
Depth	1.20	0.30	0.80	0.60	0.90	0.50	1.00	0.20	1.00	0.60	0.30	0.20	0.20	0.30	0.40
Strata	MG	MG	Clay	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG

Contaminant Name	Units	No. of Exceedances	Screening Value	Saturation Limit	PFWS01	PFWS02A	PFWS05	PFWS07	PFWS08	PFWS09	PFWS10	PFWS12	PFWS12	PFWS13	PFWS16	PFWS18A	PFWS26	PFWS27	PFWS28
Cis-1,2-dichloroethene (Cis-1,2-dichloroethylene)	mg/kg	0	22.9		<1							<1							
Cis-1,3-dichloropropene	mg/kg	0			<1							<1							
Dibromochloromethane	mg/kg	0			<10							<10							
Dibromomethane	mg/kg	0			<1							<1							
Dichlorodifluoromethane	mg/kg	0			<1							<1							
Dichloromethane	mg/kg	0	339		<5							<5							
Hexachlorobutadiene	mg/kg	0			<1							<1							
Hexachloroethane	mg/kg	0	49.8	20.10	<100							<200							
Isopropylbenzene	mg/kg	0	3130	950.00	<1							<1							
n-Butylbenzene	mg/kg	0			<1							<1							
n-Propylbenzene (Propylbenzene)	mg/kg	0	9150	981.00	<1							<1							
sec-Butylbenzene	mg/kg	0			<1							<1							
Styrene	mg/kg	0	6180	1440.00	<1							<1							
tert-Butylbenzene	mg/kg	0			<2							<2							
Trans-1,2-dichloroethene (Trans-1,2-dichloroethylene)	mg/kg	0	37.4		<1							<1							
Trans-1,3-dichloropropene	mg/kg	0			<1							<1							
Trichlorofluoromethane	mg/kg	0			<1							<1							
SVOCs																			
1,2,3-Trichloropropane	mg/kg	0			<1							<1							
2,4,5-Trichlorophenol	mg/kg	0			<100							<200							
2-Methylnaphthalene	mg/kg	0			<100							<200							
2-Nitrophenol	mg/kg	0			<100							<200							
3 & 4 Methylphenol	mg/kg	0			<100							<200							
4-Chloro-3-methylphenol (p-Chlorocresol)	mg/kg	0			<100							<200							
4-Nitrophenol	mg/kg	0			<100							<200							
Bis(2-chloroethoxy)methane	mg/kg	0			<100							<200							
Bis(2-chloroethyl)ether	mg/kg	0			<100							<200							
Bis(2-chloroisopropyl)ether	mg/kg	0			<100							<200							
bis(2-ethylhexyl)phthalate (Bis (2-ethylhexyl) phthalate)	mg/kg	0	85800	21.60	<100							<200							
Butyl benzyl phthalate (Benzyl butyl phthalate)	mg/kg	0	944000	64.70	<100							<200							
Carbazole	mg/kg	0			<100							<200							
Carbon Disulphide	mg/kg	0	21.8		<1							<1							
Dibenzofuran	mg/kg	0			<100							<200							
Dibutyl phthalate (Di-n-butyl phthalate)	mg/kg	0	15400	11.40	<100							<200							
Di-n-octyl phthalate	mg/kg	0	89100	81.50	<100							<200							
Hexachlorobutadiene	mg/kg	0	66.2		<1							<1							
Hexachlorocyclopentadiene	mg/kg	0			<100							<200							
Isophorone	mg/kg	0			<100							<200							
Nitrobenzene	mg/kg	0			<100							<200							
Other/Additional																			
n-Nitroso-n-dipropylamine	mg/kg	0			<100							<200							
Perylene	mg/kg	0			<100							<200							

E 3.1 Airport Access Road Human Health Screening Assessment

Criteria:

Commercial 2.5%

Sample ID	PFWS31	PFWS31	PFWS32	PFWS34	PFWS37	PFWS41	PFWS41	PFWS43	PFWS44	PFWSHH01	PFWSHH03	PFWSHH04	CP62	CP63A
Depth	0.20	0.50	0.40	0.50	0.70	1.00	2.00	0.20	0.50	0.50	0.50	1.00	2.00-2.10	2.00-2.10
Strata	MG	Clay	MG	MG	MG	MG	Clay	MG	MG	MG	MG	MG	MG	MG

Contaminant Name	Units	No. of Exceedances	Screening Value	Saturation Limit														
Metals																		
Arsenic	mg/kg	0	635.00			4	2	9	3	8	6		5	10	<1	3	13	11
Barium	mg/kg	0	22100.00			85	106	76	102	62	71		113	118	134	185	140	130
Beryllium	mg/kg	0	11.70			1	3	1	1	1	1		3	1	<1	<1		
Boron, Water Soluble	mg/kg	0	236000.00			<1.0	<1.0	1.2	<1.0	<1.0	1.4		2.9	<1.0	<1.0	<1.0	1.9	1.9
Cadmium	mg/kg	0	190.00			1	1.5	1.4	0.6	1.6	1.3		1.5	1.4	<0.5	0.8	0.3	0.7
Chromium III	mg/kg	0	8570.00			12	27	26	10	31	29		15	17	6	10	21	30
Chromium, Hexavalent (VI)	mg/kg	0	32.80			<1	<1	<1	<1	<1	<1		<1	<1	<1	<1	<1.0	<1.0
Copper	mg/kg	0	68300.00			44	20	11	15	11	9		33	22	15	18	34	73
Lead	mg/kg	0	2300.00			32	14	26	21	19	13		45	36	13	27	38	28
Mercury (Inorganic)	mg/kg	0	1120.00			0.19	<0.17	<0.17	0.22	<0.17	<0.17		<0.17	<0.17	0.61	0.44	0.12	0.11
Nickel	mg/kg	0	983.00			12	68	19	8	19	12		30	15	6	9	16	30
Selenium	mg/kg	0	12261.00			<1	<1	<1	<1	<1	<1		<1	<1	<1	<1	<0.5	<0.5
Vanadium	mg/kg	0	6360.00														39	36
Zinc	mg/kg	0	730000.00			43	82	47	50	42	28		91	64	40	51	120	140
Acidity / Alkalinity																		
pH	pH Units	0				8.28	7.8	7.72	8.49	8.17	8.3		7.9	8.85	8.43	9.8	10.1	8.9
Miscellaneous																		
Soil Organic Matter	%	0				5.1	0.7	2.4	0.6	0.4	0.7		16.3	2.2	0.5	0.6	3.1	2.1
Physical Tests																		
Stone Content	0	0				32.3	<0.1	5.4	41.5	<0.1	1		<0.1	17.3	5.9	23.5		
Asbestos																		
Asbestos Screen	0	0				NAD	NAD	NAD	NAD	NAD	NAD	Amosite	NAD	Chrysotile	Chrysotile	NAD	NAD	
Asbestos Type	0	0				N/A			N/A			Board			Loose Fibres			
Asbestos Type2	0	0										Loose fibres		Loose Fibres				
Asbestos Quantification (Total)	0	0										6.622		0.002	<0.001			
Total Petroleum Hydrocarbons Criteria Working Group																		
Aliphatic C5-C6	mg/kg	0	5860	558.00		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Aliphatic C6-C8	mg/kg	0	17400	322.00		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Aliphatic C8-C10	mg/kg	0	4850	190.00		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Aliphatic C10-C12	mg/kg	0	22900	118.00		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		<0.1	<0.1	<0.1	1.2	28	<1.5
Aliphatic C12-C16	mg/kg	0	81700	59.10		<0.1	<0.1	<0.1	1	<0.1	<0.1		<0.1	<0.1	<0.1	34.5	310	<1.2
Aliphatic C16-C21	mg/kg	0	10700000	21.20		<0.1	<0.1	<0.1	0.8	<0.1	<0.1		<0.1	<0.1	<0.1	65.3	550	<1.5
Aliphatic C21-C35	mg/kg	0	10700000	21.20		15	<0.1	<0.1	<0.1	<0.1	<0.1		<0.1	<0.1	<0.1	43.2	1000	<3.4
Total Aliphatic	mg/kg	0				15	<0.1	<0.1	1.8	<0.1	<0.1		<0.1	<0.1	<0.1	144	1900	<10
Aromatic C5-C7	mg/kg	0	47.00			<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Aromatic C7-C8	mg/kg	0	106827.801	1920.00		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Aromatic C8-C10	mg/kg	0	8110	1500.00		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Aromatic C10-C12	mg/kg	0	27900	899.00		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		<0.1	<0.1	<0.1	<0.1	15	<0.9
Aromatic C12-C16	mg/kg	0	37300	419.00		1	<0.1	<0.1	<0.1	<0.1	<0.1		<0.1	<0.1	1.8	2.8	240	<0.5
Aromatic C16-C21	mg/kg	0	27700	134.00		6.6	<0.1	<0.1	<0.1	<0.1	<0.1		<0.1	4.9	0.7	27.6	370	<0.6
Aromatic C21-C35	mg/kg	0	28400	12.10		43.6	<0.1	<0.1	<0.1	<0.1	<0.1		<0.1	0.5	0.5	43.6	510	<1.4
Total Aromatic C5-C35	mg/kg	0				51.2	<0.1	<0.1	<0.1	<0.1	<0.1		<0.1	5.4	3	74.1	1100	<10
TPH Ali/Aro Total	mg/kg	0				66.2	<0.1	<0.1	1.8	<0.1	<0.1		<0.1	5.4	3	218	3000	<10
BTEX																		
Benzene	mg/kg	0	47.4622464			<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01	<0.01	<0.01		
Toluene	mg/kg	0	106827.801	1920.00		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Ethylbenzene	mg/kg	0	12833.73	1220.00		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
o-Xylene	mg/kg	0	15034.0828	1120.00		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
m&p-Xylene	mg/kg	0	13552.379	1350.00		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Methyl Tert-Butyl Ether (MTBE)	mg/kg	0	12100			<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PAHs																		
Naphthalene	mg/kg	0	462	183.00		0.04	<0.03	<0.03	<0.03	<0.03	<0.03		<0.03	<0.03	<0.03	<0.03	0.53	<0.03
Acenaphthylene	mg/kg	0	96800	212.00		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01	<0.01	<0.01	<0.03	<0.03
Acenaphthene	mg/kg	0	97100	141.00		0.01	<0.01	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01	<0.01	<0.01	1.1	0.08
Fluorene	mg/kg	0	68400	76.50		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01	<0.01	<0.01	2.6	0.08
Phenanthrene	mg/kg	0	22300	89.60		0.15	<0.03	<0.03	0.05	<0.03	<0.03		0.03	0.21	0.09	0.09	7.4	0.69
Anthracene	mg/kg	0	536000	2.91		0.04	<0.02	<0.02	<0.02	<0.02	<0.02		<0.02	0.04	<0.02	<0.02	1.4	0.16
Fluoranthene	mg/kg	0	22700	47.30		0.35	<0.08	<0.08	0.15	<0.08	<0.08		<0.08	0.58	0.37	0.31	5.5	0.54
Pyrene	mg/kg	0	54400	5.49		0.31	<0.07	<0.07	0.14	<0.07	<0.07		<0.07	0.54	0.32	0.29	4.8	0.4
Benzo(a)anthracene	mg/kg	0	174	4.28		0.21	<0.04	<0.04	0.1	<0.04	<0.04		<0.04	0.31	0.24	0.19	1.6	0.13

E 3.1 Airport Access Road Human Health Screening Assessment

Criteria:

Commercial 2.5%

Sample ID	PFWS31	PFWS31	PFWS32	PFWS34	PFWS37	PFWS41	PFWS41	PFWS43	PFWS44	PFWSHH01	PFWSHH03	PFWSHH04	CP62	CP63A
Depth	0.20	0.50	0.40	0.50	0.70	1.00	2.00	0.20	0.50	0.50	0.50	1.00	2.00-2.10	2.00-2.10
Strata	MG	Clay	MG	MG	MG	MG	Clay	MG	MG	MG	MG	MG	MG	MG

Contaminant Name	Units	No. of Exceedances	Screening Value	Saturation Limit	PFWS31	PFWS31	PFWS32	PFWS34	PFWS37	PFWS41	PFWS41	PFWS43	PFWS44	PFWSHH01	PFWSHH03	PFWSHH04	CP62	CP63A
Chrysene	mg/kg	0	352	1.10	0.27	<0.06	<0.06	0.1	<0.06	<0.06			<0.06	0.4	0.24	0.19	1.7	0.11
Benzo(b)fluoranthene	mg/kg	0	44.7	3.04	0.43	<0.05	<0.05	0.14	<0.05	<0.05			<0.05	0.49	0.3	0.24	1.8	0.08
Benzo(k)fluoranthene	mg/kg	0	1180	1.72	0.16	<0.07	<0.07	<0.07	<0.07	<0.07			<0.07	0.2	0.15	0.11	0.7	< 0.03
Benzo(a)pyrene	mg/kg	0	35.5	2.28	0.28	<0.04	0.05	0.14	<0.04	<0.04			<0.04	0.47	0.3	0.24	1.3	< 0.03
Indeno(1,2,3-c,d)pyrene	mg/kg	0	506	0.15	0.21	<0.03	0.03	0.11	<0.03	<0.03			<0.03	0.33	0.23	0.18	0.7	< 0.03
Dibenzo(a,h)anthracene	mg/kg	0	3.55	0.0098	0.06	<0.04	<0.04	<0.04	<0.04	<0.04			<0.04	0.07	0.06	0.04	<0.03	< 0.03
Benzo(g,h,i)perylene	mg/kg	0	3950	0.04	0.2	<0.05	<0.05	0.09	<0.05	<0.05			<0.05	0.27	0.18	0.16	0.77	< 0.03
PAH - USEPA 16, Total	mg/kg	0			2.71	<0.08	0.09	1.1	<0.08	<0.08			<0.08	3.93	2.49	2.05	32	2.3
Chloroalkanes & Alkanes (VOC/SVOC)																		
1,2-Dichloroethane	mg/kg	0	0.967		<2													
1,1,1-Trichloroethane	mg/kg	0	1350		<1													
1,1,2,2-Tetrachloroethane	mg/kg	0	546		<1													
1,1,1,2-Tetrachloroethane (PCA)	mg/kg	0	247		<1													
Tetrachloroethene (Tetrachloroethylene)	mg/kg	0	41.6		<1													
Tetrachloromethane (Carbon tetrachloride)	mg/kg	0	6.28		<1													
Trichloroethene (trichloroethylene)	mg/kg	0	2.57		<1													
Trichloromethane (Chloroform)	mg/kg	0	174		<1													
Vinyl Chloride (chloroethene, chloroethene)	mg/kg	0	0.0767		<1													
Chlorobenzenes (VOC/SVOC)																		
Chlorobenzene	mg/kg	0	125		<1													
1,2-Dichlorobenzene	mg/kg	0	4830	1370.00	<1													
1,3-Dichlorobenzene	mg/kg	0	70.6		<1													
1,4-Dichlorobenzene	mg/kg	0	9700	540.00	<1													
1,2,3-Trichlorobenzene	mg/kg	0	250		<3													
1,2,4-Trichlorobenzene	mg/kg	0	530		<3													
Chlorophenols (VOC/SVOC)																		
Phenol	mg/kg	0	30000		<100												<0.3	<0.3
2-Chlorophenol	mg/kg	0	3980		<100													
2,4-Dichlorophenol	mg/kg	0	3890		<100													
2,4,6-Trichlorophenol	mg/kg	0	4160	2020.00	<100													
Pentachlorophenol	mg/kg	0	403	39.10	<100													
BTEX (VOC/SVOC)																		
Benzene	mg/kg	0	47.46		<1													
Toluene	mg/kg	0	106827.80	1920.00	<1													
Ethylbenzene	mg/kg	0	12833.73	1220.00	<1													
o-Xylene	mg/kg	0	15034.08	1120.00	<1													
p & m-Xylene	mg/kg	0	13552.38	1350.00	<1													
VOCs																		
(4) p-Isopropyltoluene	mg/kg	0			<1													
1,1,2-Trichloroethane	mg/kg	0	180		<1													
1,1-Dichloroethane	mg/kg	0	425		<1													
1,1-Dichloroethene (1,1-Dichloroethylene)	mg/kg	0	43		<1													
1,1-Dichloropropene	mg/kg	0			<1													
1,2,4-Trimethylbenzene	mg/kg	0	93.5		<1													
1,2-Dibromo-3-chloropropane	mg/kg	0			<2													
1,2-Dibromoethane	mg/kg	0			<1													
1,2-Dichloropropane	mg/kg	0	5.54		<1													
1,3,5-Trimethylbenzene	mg/kg	0			<1													
1,3-Dichloropropane	mg/kg	0			<1													
2,2-Dichloropropane	mg/kg	0			<1													
2,4-Dimethylphenol	mg/kg	0	23400	3140.00	<100													
2,4-Dinitrotoluene	mg/kg	0	3750	299.00	<100													
2,6-Dinitrotoluene	mg/kg	0	1870	622.00	<100													
2-Chloronaphthalene	mg/kg	0	902	280.00	<100													
2-Chlorotoluene	mg/kg	0			<1													
2-Methylphenol (o-Cresol, ortho-cresol)	mg/kg	0	175000	32500.00	<100													
4-Chlorotoluene	mg/kg	0			<1													
Bromobenzene	mg/kg	0	211		<1													
Bromochloromethane	mg/kg	0			<5													
Bromoform (Tribromomethane)	mg/kg	0	1430		<1													
Bromomethane	mg/kg	0			<1													
Chloroethane	mg/kg	0	1230		<1													
Chloromethane	mg/kg	0	1.12		<10													

E 3.1 Airport Access Road Human Health Screening Assessment

Criteria:
Commercial 2.5%

Sample ID	PFWS31	PFWS31	PFWS32	PFWS34	PFWS37	PFWS41	PFWS41	PFWS43	PFWS44	PFWSHH01	PFWSHH03	PFWSHH04	CP62	CP63A
Depth	0.20	0.50	0.40	0.50	0.70	1.00	2.00	0.20	0.50	0.50	0.50	1.00	2.00-2.10	2.00-2.10
Strata	MG	Clay	MG	MG	MG	MG	Clay	MG	MG	MG	MG	MG	MG	MG

Contaminant Name	Units	No. of Exceedances	Screening Value	Saturation Limit														
Cis-1,2-dichloroethene (Cis-1,2-dichloroethylene)	mg/kg	0	22.9			<1												
Cis-1,3-dichloropropene	mg/kg	0				<1												
Dibromochloromethane	mg/kg	0				<10												
Dibromomethane	mg/kg	0				<1												
Dichlorodifluoromethane	mg/kg	0				<1												
Dichloromethane	mg/kg	0	339			<5												
Hexachlorobutadiene	mg/kg	0				<1												
Hexachloroethane	mg/kg	0	49.8	20.10		<100												
Isopropylbenzene	mg/kg	0	3130	950.00		<1												
n-Butylbenzene	mg/kg	0				<1												
n-Propylbenzene (Propylbenzene)	mg/kg	0	9150	981.00		<1												
sec-Butylbenzene	mg/kg	0				<1												
Styrene	mg/kg	0	6180	1440.00		<1												
tert-Butylbenzene	mg/kg	0				<2												
Trans-1,2-dichloroethene (Trans-1,2-dichloroethylene)	mg/kg	0	37.4			<1												
Trans-1,3-dichloropropene	mg/kg	0				<1												
Trichlorofluoromethane	mg/kg	0				<1												
SVOCs																		
1,2,3-Trichloropropane	mg/kg	0				<1												
2,4,5-Trichlorophenol	mg/kg	0				<100												
2-Methylnaphthalene	mg/kg	0				<100												
2-Nitrophenol	mg/kg	0				<100												
3 & 4 Methylphenol	mg/kg	0				<100												
4-Chloro-3-methylphenol (p-Chlorocresol)	mg/kg	0				<100												
4-Nitrophenol	mg/kg	0				<100												
Bis(2-chloroethoxy)methane	mg/kg	0				<100												
Bis(2-chloroethyl)ether	mg/kg	0				<100												
Bis(2-chloroisopropyl)ether	mg/kg	0				<100												
bis(2-ethylhexyl)phthalate (Bis (2-ethylhexyl) phthalate)	mg/kg	0	85800	21.60		<100												
Butyl benzyl phthalate (Benzyl butyl phthalate)	mg/kg	0	944000	64.70		<100												
Carbazole	mg/kg	0				<100												
Carbon Disulphide	mg/kg	0	21.8			<1												
Dibenzofuran	mg/kg	0				<100												
Dibutyl phthalate (Di-n-butyl phthalate)	mg/kg	0	15400	11.40		<100												
Di-n-octyl phthalate	mg/kg	0	89100	81.50		<100												
Hexachlorobutadiene	mg/kg	0	66.2			<1												
Hexachlorocyclopentadiene	mg/kg	0				<100												
Isophorone	mg/kg	0				<100												
Nitrobenzene	mg/kg	0				<100												
Other/Additional																		
n-Nitroso-n-dipropylamine	mg/kg	0				<100												
Perylene	mg/kg	0				0.104												

APPENDIX E

E 3.1 Airport Access Road Human Health Screening Assessment

Criteria:
Commercial 2.5%

Contaminant Name	Units	No. of Exceedances	Screening Value	Saturation Limit	Sample ID	CP66	CP66	CPRC67	CPRC67	PFCP68
					Depth Strata	0.90	2.00-2.10	1.00-1.10	4.00-4.10	0.60
					MG	MG	MG	MG	MG	MG
Metals										
Arsenic	mg/kg	0	635.00			16	10	4.7	13	13
Barium	mg/kg	0	22100.00			72	160	380	69	120
Beryllium	mg/kg	0	11.70							
Boron, Water Soluble	mg/kg	0	236000.00			0.7	0.5	0.9	3.2	0.3
Cadmium	mg/kg	0	190.00			<0.1	0.3	0.3	0.1	0.3
Chromium III	mg/kg	0	8570.00			44	31	14	23	34
Chromium, Hexavalent (VI)	mg/kg	0	32.80			<1.0	<1.0	<1.0	<1.0	<1.0
Copper	mg/kg	0	68300.00			35	26	18	15	31
Lead	mg/kg	0	2300.00			30	28	16	15	25
Mercury (Inorganic)	mg/kg	0	1120.00			0.25	0.11	0.18	0.09	0.16
Nickel	mg/kg	0	983.00			27	18	11	23	29
Selenium	mg/kg	0	12261.00			<0.5	0.6	<0.5	<0.5	<0.5
Vanadium	mg/kg	0	6360.00			91	51	18	33	59
Zinc	mg/kg	0	730000.00			87	87	79	88	81
Acidity / Alkalinity										
pH	pH Units	0				7.9	8.5	8.5	11.1	8.2
Miscellaneous										
Soil Organic Matter	%	0				0.5	3	0.8	1.3	0.9
Physical Tests										
Stone Content	0	0								
Asbestos										
Asbestos Screen	0	0								
Asbestos Type	0	0								
Asbestos Type2	0	0								
Asbestos Quantification (Total)	0	0								
Total Petroleum Hydrocarbons Criteria Working Group										
Aliphatic C5-C6	mg/kg	0	5860	558.00		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic C6-C8	mg/kg	0	17400	322.00		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic C8-C10	mg/kg	0	4850	190.00		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic C10-C12	mg/kg	0	22900	118.00		< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
Aliphatic C12-C16	mg/kg	0	81700	59.10		< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
Aliphatic C16-C21	mg/kg	0	10700000	21.20		< 1.5	2.6	< 1.5	< 1.5	< 1.5
Aliphatic C21-C35	mg/kg	0	10700000	21.20		< 3.4	94	< 3.4	< 3.4	< 3.4
Total Aliphatic	mg/kg	0				< 10	97	< 10	< 10	< 10
Aromatic C5-C7	mg/kg	0	47.00			< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic C7-C8	mg/kg	0	106827.801	1920.00		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic C8-C10	mg/kg	0	8110	1500.00		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic C10-C12	mg/kg	0	27900	899.00		< 0.9	< 0.9	< 0.9	< 0.9	< 0.9
Aromatic C12-C16	mg/kg	0	37300	419.00		< 0.5	0.7	< 0.5	< 0.5	< 0.5
Aromatic C16-C21	mg/kg	0	27700	134.00		< 0.6	9.6	< 0.6	< 0.6	< 0.6
Aromatic C21-C35	mg/kg	0	28400	12.10		< 1.4	220	< 1.4	< 1.4	< 1.4
Total Aromatic C5-C35	mg/kg	0				< 10	230	< 10	< 10	< 10
TPH Ali/Aro Total	mg/kg	0				< 10	330	< 10	< 10	< 10
BTEX										
Benzene	mg/kg	0	47.4622464							
Toluene	mg/kg	0	106827.801	1920.00						
Ethylbenzene	mg/kg	0	12833.73	1220.00						
o-Xylene	mg/kg	0	15034.0828	1120.00						
m&p-Xylene	mg/kg	0	13552.379	1350.00						
Methyl Tert-Butyl Ether (MTBE)	mg/kg	0	12100							
PAHs										
Naphthalene	mg/kg	0	462	183.00		< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Acenaphthylene	mg/kg	0	96800	212.00		< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Acenaphthene	mg/kg	0	97100	141.00		< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Fluorene	mg/kg	0	68400	76.50		< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Phenanthrene	mg/kg	0	22300	89.60		0.04	0.13	< 0.03	< 0.03	0.05
Anthracene	mg/kg	0	536000	2.91		< 0.03	0.04	< 0.03	< 0.03	< 0.03
Fluoranthene	mg/kg	0	22700	47.30		0.19	0.21	0.05	< 0.03	0.15
Pyrene	mg/kg	0	54400	5.49		0.19	0.17	0.04	< 0.03	0.14
Benzo(a)anthracene	mg/kg	0	174	4.28		0.08	0.06	< 0.03	< 0.03	0.06

APPENDIX E

E 3.1 Airport Access Road Human Health Screening Assessment

Criteria:
Commercial 2.5%

Contaminant Name	Units	No. of Exceedances	Screening Value	Saturation Limit	Sample ID	CP66	CP66	CPRC67	CPRC67	PFCP68
					Depth Strata	0.90	2.00-2.10	1.00-1.10	4.00-4.10	0.60
						MG	MG	MG	MG	MG
Chrysene	mg/kg	0	352	1.10		0.09	0.07	< 0.03	< 0.03	0.08
Benzo(b)fluoranthene	mg/kg	0	44.7	3.04		0.12	0.07	< 0.03	< 0.03	0.09
Benzo(k)fluoranthene	mg/kg	0	1180	1.72		0.05	< 0.03	< 0.03	< 0.03	< 0.03
Benzo(a)pyrene	mg/kg	0	35.5	2.28		0.09	0.06	< 0.03	< 0.03	0.06
Indeno(1,2,3-c,d)pyrene	mg/kg	0	506	0.15		0.05	0.04	< 0.03	< 0.03	0.04
Dibenzo(a,h)anthracene	mg/kg	0	3.55	0.0098		< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Benzo(g,h,i)perylene	mg/kg	0	3950	0.04		0.05	0.04	< 0.03	< 0.03	0.04
PAH - USEPA 16, Total	mg/kg	0				0.95	0.87	< 0.1	< 0.1	0.7
Chloroalkanes & Alkanes (VOC/SVOC)										
1,2-Dichloroethane	mg/kg	0	0.967							
1,1,1-Trichloroethane	mg/kg	0	1350							
1,1,1,2-Tetrachloroethane	mg/kg	0	546							
1,1,1,2-Tetrachloroethane (PCA)	mg/kg	0	247							
Tetrachloroethene (Tetrachloroethylene)	mg/kg	0	41.6							
Tetrachloromethane (Carbon tetrachloride)	mg/kg	0	6.28							
Trichloroethene (trichloroethylene)	mg/kg	0	2.57							
Trichloromethane (Chloroform)	mg/kg	0	174							
Vinyl Chloride (chloroethene, chloroethene)	mg/kg	0	0.0767							
Chlorobenzenes (VOC/SVOC)										
Chlorobenzene	mg/kg	0	125							
1,2-Dichlorobenzene	mg/kg	0	4830	1370.00						
1,3-Dichlorobenzene	mg/kg	0	70.6							
1,4-Dichlorobenzene	mg/kg	0	9700	540.00						
1,2,3-Trichlorobenzene	mg/kg	0	250							
1,2,4-Trichlorobenzene	mg/kg	0	530							
Chlorophenols (VOC/SVOC)										
Phenol	mg/kg	0	30000			<0.3	<0.3	<0.3	<0.3	<0.3
2-Chlorophenol	mg/kg	0	3980							
2,4-Dichlorophenol	mg/kg	0	3890							
2,4,6-Trichlorophenol	mg/kg	0	4160	2020.00						
Pentachlorophenol	mg/kg	0	403	39.10						
BTEX (VOC/SVOC)										
Benzene	mg/kg	0	47.46							
Toluene	mg/kg	0	106827.80	1920.00						
Ethylbenzene	mg/kg	0	12833.73	1220.00						
o-Xylene	mg/kg	0	15034.08	1120.00						
p & m-Xylene	mg/kg	0	13552.38	1350.00						
VOCs										
(4) p-Isopropyltoluene	mg/kg	0								
1,1,2-Trichloroethane	mg/kg	0	180							
1,1-Dichloroethane	mg/kg	0	425							
1,1-Dichloroethene (1,1-Dichloroethylene)	mg/kg	0	43							
1,1-Dichloropropene	mg/kg	0								
1,2,4-Trimethylbenzene	mg/kg	0	93.5							
1,2-Dibromo-3-chloropropane	mg/kg	0								
1,2-Dibromoethane	mg/kg	0								
1,2-Dichloropropane	mg/kg	0	5.54							
1,3,5-Trimethylbenzene	mg/kg	0								
1,3-Dichloropropane	mg/kg	0								
2,2-Dichloropropane	mg/kg	0								
2,4-Dimethylphenol	mg/kg	0	23400	3140.00						
2,4-Dinitrotoluene	mg/kg	0	3750	299.00						
2,6-Dinitrotoluene	mg/kg	0	1870	622.00						
2-Chloronaphthalene	mg/kg	0	902	280.00						
2-Chlorotoluene	mg/kg	0								
2-Methylphenol (o-Cresol, ortho-cresol)	mg/kg	0	175000	32500.00						
4-Chlorotoluene	mg/kg	0								
Bromobenzene	mg/kg	0	211							
Bromochloromethane	mg/kg	0								
Bromoform (Tribromomethane)	mg/kg	0	1430							
Bromomethane	mg/kg	0								
Chloroethane	mg/kg	0	1230							
Chloromethane	mg/kg	0	1.12							

APPENDIX E

E 3.1 Airport Access Road Human Health Screening Assessment

Criteria:
Commercial 2.5%

Sample ID	CP66	CP66	CPRC67	CPRC67	PFCP68
Depth	0.90	2.00-2.10	1.00-1.10	4.00-4.10	0.60
Strata	MG	MG	MG	MG	MG

Contaminant Name	Units	No. of Exceedances	Screening Value	Saturation Limit						
Cis-1,2-dichloroethene (Cis-1,2-dichloroethylene)	mg/kg	0	22.9							
Cis-1,3-dichloropropene	mg/kg	0								
Dibromochloromethane	mg/kg	0								
Dibromomethane	mg/kg	0								
Dichlorodifluoromethane	mg/kg	0								
Dichloromethane	mg/kg	0	339							
Hexachlorobutadiene	mg/kg	0								
Hexachloroethane	mg/kg	0	49.8	20.10						
Isopropylbenzene	mg/kg	0	3130	950.00						
n-Butylbenzene	mg/kg	0								
n-Propylbenzene (Propylbenzene)	mg/kg	0	9150	981.00						
sec-Butylbenzene	mg/kg	0								
Styrene	mg/kg	0	6180	1440.00						
tert-Butylbenzene	mg/kg	0								
Trans-1,2-dichloroethene (Trans-1,2-dichloroethylene)	mg/kg	0	37.4							
Trans-1,3-dichloropropene	mg/kg	0								
Trichlorofluoromethane	mg/kg	0								
SVOCs										
1,2,3-Trichloropropane	mg/kg	0								
2,4,5-Trichlorophenol	mg/kg	0								
2-Methylnaphthalene	mg/kg	0								
2-Nitrophenol	mg/kg	0								
3 & 4 Methylphenol	mg/kg	0								
4-Chloro-3-methylphenol (p-Chlorocresol)	mg/kg	0								
4-Nitrophenol	mg/kg	0								
Bis(2-chloroethoxy)methane	mg/kg	0								
Bis(2-chloroethyl)ether	mg/kg	0								
Bis(2-chloroisopropyl)ether	mg/kg	0								
bis(2-ethylhexyl)phthalate (Bis (2-ethylhexyl) phthalate)	mg/kg	0	85800	21.60						
Butyl benzyl phthalate (Benzyl butyl phthalate)	mg/kg	0	944000	64.70						
Carbazole	mg/kg	0								
Carbon Disulphide	mg/kg	0	21.8							
Dibenzofuran	mg/kg	0								
Dibutyl phthalate (Di-n-butyl phthalate)	mg/kg	0	15400	11.40						
Di-n-octyl phthalate	mg/kg	0	89100	81.50						
Hexachlorobutadiene	mg/kg	0	66.2							
Hexachlorocyclopentadiene	mg/kg	0								
Isophorone	mg/kg	0								
Nitrobenzene	mg/kg	0								
Other/Additional										
n-Nitroso-n-dipropylamine	mg/kg	0								
Perylene	mg/kg	0								

Appendix E

E4 Groundwater Vapour Analysis

Lab Sample ID	Client Sample No	Depth to Top	Depth to Bottom	Date Sampled	Sample Type	Sample Matrix Code	Substitute GAC	Screening value	Units	Screening standard	Units	Limit of Detection - ALS analysis	Number of Exceedances	BH206	BH209	BH209	BH210	BH213	BH214	BH214	BH214	BH214	BH223	BH228	BH228	19507794	
TPH >C10-C12 Aromatics								660000	µg/l	Default	µg/l	10.000	0	14	21	12	10	12	< 10	< 10	< 10	< 10	37	< 10	< 10		
TPH >C12-C16 Aromatics								3700000	µg/l	Default	µg/l	10.000	0	65	48		< 200	< 10	< 10	< 20	< 10	41	1470	< 10	< 10		
TPH >C16-C21 Aromatics								n/a	µg/l	Default	µg/l	10.000	0	71	91		< 200	< 10	< 10	< 10	16	114	136	5170	< 10	< 10	
TPH >C21-C35 Aromatics								n/a	µg/l	Default	µg/l	10.000	0	159	281		< 200	< 10	< 10	< 10	31	60	440	2050	18500	< 10	< 10
VOCS																											
Chloromethane								1400	µg/l	Default	µg/l	1.000	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroethane								1000000	µg/l	Default	µg/l	1.000	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromomethane	Bromodichloromethane							1600	µg/l	Default	µg/l	1.000	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Vinyl Chloride								63	µg/l	Default	µg/l	1.000	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichlorofluoromethane	Bromodichloromethane							1600	µg/l	Default	µg/l	1.000	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethene								16000	µg/l	Default	µg/l	1.000	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Cis-1,2 Dichloroethene								13000	µg/l	Default	µg/l	1.000	0	2.45	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	2.08	< 1	< 1	< 1	< 1
MTBE								7800000	µg/l	Default	µg/l	1.000	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethane								260000	µg/l	Default	µg/l	1.000	0	1.05	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2,2-Dichloropropane	1,2-Dichloropropane							2600	µg/l	Default	µg/l	1.000	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloromethane								85000	µg/l	Default	µg/l	1.000	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane								290000	µg/l	Default	µg/l	1.000	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethane								850	µg/l	Default	µg/l	1.000	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloropropene	1,2-Dichloropropane							2600	µg/l	Default	µg/l	1.000	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trans-1,2 Dichloroethene								16000	µg/l	Default	µg/l	1.000	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Benzene								20000	µg/l	Default	µg/l	1.000	0	2.4	1.41	< 1	< 1	1.32	< 1	< 1	< 1	< 1	1.49	< 1	< 1	< 1	< 1
Tetrachloromethane								770	µg/l	Default	µg/l	-	0														< 1
1,2-Dichloropropane								2600	µg/l	Default	µg/l	1.000	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene								530	µg/l	Default	µg/l	1.000	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dibromomethane	Dichloromethane							370,000	µg/l	Default	µg/l	1.000	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane								1600	µg/l	Default	µg/l	1.000	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Cis-1,3 Dichloropropene	1,2-Dichloropropane							2600	µg/l	Default	µg/l	1.000	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trans-1,3 Dichloropropene	1,2-Dichloropropane							2600	µg/l	Default	µg/l	1.000	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Toluene								21000000	µg/l	Default	µg/l	1.000	0	< 1	< 1	< 1	< 1	6.04	< 1	< 1	< 1	< 1	1.99	< 1	< 1	1.37	< 1
1,1,2-Trichloroethane								49000	µg/l	Default	µg/l	1.000	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3-Dichloropropane	1,2-Dichloropropane							2600	µg/l	Default	µg/l	1.000	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dibromochloromethane	Dichloromethane							370000	µg/l	Default	µg/l	1.000	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethene								4600	µg/l	Default	µg/l	1.000	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dibromoethane	1,2-Dichloroethane							850	µg/l	Default	µg/l	1.000	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chlorobenzene								15000	µg/l	Default	µg/l	1.000	0	2.33	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1,2-Tetrachloroethane								22000	µg/l	Default	µg/l	1.000	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ethylbenzene								960000	µg/l	Default	µg/l	1.000	0	1.36	3.78	1.6	< 1	< 1	< 1	< 1	< 1	< 1	4.86	< 1	< 1	< 1	< 1
m,p-Xylenes								940000	µg/l	Default	µg/l	1.000	0	6.39	41.4	30.3	< 1	< 1	< 1	< 1	< 1	< 1	5.68	< 1	5.66	< 1	5.66
Styrene								8800	µg/l	Default	µg/l	1.000	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
o-Xylene								1100000	µg/l	Default	µg/l	1.000	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1.97	< 1	1.24	< 1	1.24
1,1,2,2-Tetrachloroethane								150000	µg/l	Default	µg/l	1.000	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Iso-propylbenzene								86000	µg/l	Default	µg/l	1.000	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromobenzene								20000	µg/l	Default	µg/l	1.000	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Propylbenzene								240000	µg/l	Default	µg/l	1.000	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Chlorotoluene								n/a	µg/l	Default	µg/l	1.000	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
4-Chlorotoluene								n/a	µg/l	Default	µg/l	1.000	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene	1,2,4-TrimethylBenzene							2200	µg/l	Default	µg/l	1.000	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1.3	< 1	1.33	< 1	1.33
tert-Butylbenzene	Benzene							20000	µg/l	Default	µg/l	1.000	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,4-Trimethylbenzene								2200	µg/l	Default	µg/l	1.000	2	1.12	1.36	< 1	< 1	< 1	< 1	< 1	< 1	< 1	4.12	< 1	4.11	< 1	4.11
sec-Butylbenzene	Benzene							20000	µ																		

Appendix E

E4 Groundwater Vapour Analysis

Lab Sample ID																			19507794
Client Sample No																			
Depth to Top																			
Depth to Bottom																			
Date Sampled																			
Sample Type																			
Sample Matrix Code																			
Diethyl phthalate		n/a	µg/l	Default	µg/l	1.000	0	< 1	< 8	< 10	< 20	< 1		< 8	< 10	< 50	< 1	< 1	
Bromophenyl phenyl ether		n/a	µg/l	Default	µg/l	1.000	0	< 1	< 8	< 10	< 20	< 1		< 8	< 10	< 50	< 1	< 1	
Hexachlorobenzene		1400	µg/l	Default	µg/l	1.000	0	< 1	< 8	< 10	< 20	< 1		< 8	< 10	< 50	< 1	< 1	
Phenanthrene		n/a	µg/l	Default	µg/l	0.005	0	1.21	9.69		0.768	0.0127	0.12	0.531	0.338	3.78	0.105	0.00828	
Carbazole	Benzene	20000	µg/l	Default	µg/l	1.000	0	1.44	< 8	< 10	< 20	< 1		< 8	< 10	< 50	< 1	< 1	
Di-n-butyl phthalate		n/a	µg/l	Default	µg/l	1.000	0	< 1	< 8	< 10	< 20	6.22		< 8	< 10	241	< 1	< 1	
Butyl benzyl phthalate		n/a	µg/l	Default	µg/l	1.000	0	< 1	< 8	< 10	< 20	< 1		< 8	< 10	113	< 1	< 1	
PCBs by GC-ECD - WHO 12																			
PCB Congener 77		n/a	µg/l	Default	µg/l	0.015	0	< 0.015	< 0.015		< 0.015	< 0.015	< 0.015	< 0.03	< 0.03	< 0.015	< 0.015	< 0.015	
PCB Congener 81		n/a	µg/l	Default	µg/l	0.015	0	< 0.015	< 0.015		< 0.015	< 0.015	< 0.015	< 0.03	< 0.03	< 0.015	< 0.015	< 0.015	
PCB Congener 105		n/a	µg/l	Default	µg/l	0.015	0	< 0.015	< 0.015		< 0.015	< 0.015	< 0.015	< 0.03	< 0.03	< 0.015	< 0.015	< 0.015	
PCB Congener 114		n/a	µg/l	Default	µg/l	0.015	0	< 0.015	< 0.015		< 0.015	< 0.015	< 0.015	< 0.03	< 0.03	< 0.015	< 0.015	< 0.015	
PCB Congener 118		n/a	µg/l	Default	µg/l	0.015	0	< 0.015	< 0.015		< 0.015	< 0.015	< 0.015	< 0.03	< 0.03	< 0.015	< 0.015	< 0.015	
PCB Congener 123		n/a	µg/l	Default	µg/l	0.015	0	< 0.015	< 0.015		< 0.015	< 0.015	< 0.015	< 0.03	< 0.03	< 0.015	< 0.015	< 0.015	
PCB Congener 126		n/a	µg/l	Default	µg/l	0.015	0	< 0.015	< 0.015		< 0.015	< 0.015	< 0.015	< 0.03	< 0.03	< 0.015	< 0.015	< 0.015	
PCB Congener 156		n/a	µg/l	Default	µg/l	0.015	0	< 0.015	< 0.015		< 0.015	< 0.015	< 0.015	< 0.03	< 0.03	< 0.015	< 0.015	< 0.015	
PCB Congener 157		n/a	µg/l	Default	µg/l	0.015	0	< 0.015	< 0.015		< 0.015	< 0.015	< 0.015	< 0.03	< 0.03	< 0.015	< 0.015	< 0.015	
PCB Congener 167		n/a	µg/l	Default	µg/l	0.015	0	< 0.015	< 0.015		< 0.015	< 0.015	< 0.015	< 0.03	< 0.03	< 0.015	< 0.015	< 0.015	
PCB Congener 169		n/a	µg/l	Default	µg/l	0.015	0	< 0.015	< 0.015		< 0.015	< 0.015	< 0.015	< 0.03	< 0.03	< 0.015	< 0.015	< 0.015	
PCB Congener 189		n/a	µg/l	Default	µg/l	0.015	0	< 0.015	< 0.015		< 0.015	< 0.015	< 0.015	< 0.03	< 0.03	< 0.015	< 0.015	< 0.015	
Environmental Forensics																			
PFOS		n/a	µg/l	Default	µg/l	0.100	0	0.136	0.207		< 0.1	0.216	0.0307		0.0628		0.00978	0.0172	
PFOA		n/a	µg/l	Default	µg/l	0.065	0	0.0569	0.0786		< 0.065	0.0653	0.0341		0.0487		0.00446	0.00501	
Chloroxuron		n/a	µg/l	Default	µg/l	0.010	0	< 0.1	< 0.1	< 0.01		< 0.1	< 0.1	< 0.1	< 0.01		< 0.01	< 0.01	
Chlorpropham		n/a	µg/l	Default	µg/l	0.050	0	< 0.5	< 0.5	< 0.05		< 0.5	< 0.5	< 0.5	< 0.05		< 0.05	< 0.05	
Ethiofencarb		n/a	µg/l	Default	µg/l	0.020	0	< 0.2	< 0.2	< 0.02		< 0.2	< 0.2	< 0.2	< 0.02		< 0.02	< 0.02	
Propham		n/a	µg/l	Default	µg/l	0.050	0	< 0.5	< 0.5	< 0.05		< 0.5	< 0.5	< 0.5	< 0.05		< 0.05	< 0.05	
Dimefuron		n/a	µg/l	Default	µg/l	0.020	0	< 0.2	< 0.2	< 0.02		< 0.2	< 0.2	< 0.2	< 0.02		< 0.02	< 0.02	
Metoxuron		n/a	µg/l	Default	µg/l	0.010	0	< 0.1	< 0.1	< 0.01		< 0.1	< 0.1	< 0.1	< 0.01		< 0.01	< 0.01	
Pencycuron		n/a	µg/l	Default	µg/l	0.020	0	< 0.2	< 0.2	< 0.02		< 0.2	< 0.2	< 0.2	< 0.02		< 0.02	< 0.02	
o,p-Methoxychlor		n/a	µg/l	Default	µg/l	0.010	0	< 0.01	< 0.2		< 0.2	< 0.01	-	< 0.01	< 0.01	< 0.02	< 0.01	< 0.01	
Demeton-s-methyl		n/a	µg/l	Default	µg/l	0.010	0	< 0.01	< 0.01	< 0.01		< 0.01	< 0.01	< 0.04	< 0.01	< 0.01	< 0.01	< 0.01	
Diclofop		n/a	µg/l	Default	µg/l	0.020	0	< 0.02	< 0.02	< 1		< 0.02	< 0.02	< 0.02	< 1		< 0.02	< 0.02	
Cyhalothrin		n/a	µg/l	Default	µg/l	0.050	0	< 0.05	< 0.05	< 0.05		< 1	< 0.05	< 0.05	< 0.05	< 1	< 0.05	< 0.05	
Atrazine-methoxy		n/d	µg/l	Default	µg/l	-	0											< 0.01	
Bromacil		n/a	µg/l	Default	µg/l	0.010	0	< 0.1	< 0.1	< 0.01		< 0.1	< 0.1	< 0.1	< 0.01		< 0.01	< 0.01	
4-Nitrophenol		n/a	µg/l	Default	µg/l	1.000	0	< 1	< 8	< 10	< 20	< 1		< 8	< 10	< 50	< 1	< 1	
Hexachlorocyclopentadiene	Chlorobenzene	15000	µg/l	Default	µg/l	1.000	0	< 1	< 8	< 10	< 20	< 1		< 8	< 10	< 50	< 1	< 1	
n-Nitroso-n-dipropylamine	1,2-Dichloropropane	2600	µg/l	Default	µg/l	1.000	0	< 1	< 8	< 10	< 20	< 1		< 8	< 10	< 50	< 1	< 1	
Carbamates																			
Pirimicarb		n/a	ng/l	Default	ng/l	10.000	0	< 100	< 100	< 10		< 10	< 100	< 100	< 10		< 10	< 0.01	
Carbetamide		n/a	ng/l	Default	ng/l	100.000	0	< 100	< 100	< 100		< 100	< 100	< 100	< 100		< 100	< 0.01	
Phthalates																			
Bis(2-ethylhexyl)phthalate		n/a	µg/l	Default	µg/l	2.000	0	< 2	< 16	< 20	< 40	< 2		< 16	< 20	468	< 2	< 2	
Di-n-octyl phthalate		n/a	µg/l	Default	µg/l	5.000	0	< 5	< 40	< 50	< 100	< 5		< 40	< 50	< 250	< 5	< 5	
Glycols																			
Rodenticides																			
Triazine Pesticides																			
Atrazine		n/a	µg/l	Default	µg/l	0.010	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.04	< 0.01	< 0.01	< 0.01	< 0.01	
Simazine		n/a	µg/l	Default	µg/l	0.010	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.04	< 0.01	< 0.01	< 0.01	< 0.01	
Prometryn		n/a	µg/l	Default	µg/l	0.010	0	< 0.01	< 0.01	< 0.01	< 0.2	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	< 0.01	< 0.01	
Propazine		n/a	µg/l	Default	µg/l	0.010	0	< 0.01	< 0.01	< 0.01	< 0.2	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	< 0.01	< 0.01	
Terbutylazine		n/d	µg/l	Default	µg/l	-	0												
Terbutryn		n/a	µg/l	Default	µg/l	0.010	0	< 0.01	< 0.01	< 0.01	< 0.2	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	< 0.01	< 0.01	
Acid herbicides esters																			
Acid Herbicides																			
2,3,6-TBA		n/a	µg/l	Default	µg/l	0.100	0	< 0.1	< 1	< 100		< 0.1	< 1	< 1	< 100		< 1	< 10	
Benazolin		n/a	µg/l	Default	µg/l	0.050	0	< 0.05	< 0.05	< 2.5		< 0.05	< 0.05	< 0.05	< 2.5		< 0.05	< 0.5	
Bromoxynil		n/a	µg/l	Default	µg/l	0.010	0	< 0.01	< 0.01	< 0.5		< 0.01	< 0.01	< 0.01	< 0.5		< 0.01	< 0.1	
Clopyralid		n/a	µg/l	Default	µg/l	0.030	0	< 0.03	< 0.3	< 1.5		< 0.03	< 0.03	< 0.3	< 1.5		< 0.03	< 0.3	
Ioxynil		n/a	µg/l	Default	µg/l	0.010	0	< 0.01	< 0.01	< 0.5		< 0.01	< 0.01	< 0.01	< 0.5		< 0.01	< 0.1	
2,4,5-T		n/a	µg/l	Default	µg/l	0.010	0	< 0.01	< 0.01	< 0.5		< 0.01	< 0.01	< 0.01	< 0.5		< 0.01	< 0.1	
2,4,5-TP		n/a	µg/l	Default	µg/l	0.010	0	< 0.01	0.079	< 0.5		< 0.01	< 0.01	< 0.01	< 0.5		< 0.01	< 0.1	
2,4-D		n/a	µg/l	Default	µg/l	0.010	0	< 0.01	< 0.01	< 0.5		< 0.01	< 0.01	0.045	< 0.5		< 0.01	< 0.1	
2,4-DB		n/a	µg/l	Default	µg/l	0.020	0	< 0.02	< 0.02	< 1		< 0.02	< 0.02	< 0.02	< 1		< 0.02	< 0.2	
Dicamba		n/a	µg/l	Default	µg/l	0.030	0	< 0.03	< 0.03	< 1.5		< 0.03	< 0.03	< 0.0					

Appendix E

E4 Groundwater Vapour Analysis

Lab Sample ID																		19507794							
Client Sample No	Substitute GAC	Screening value	Units	Screening standard	Units	Limit of Detection - ALS analysis	Number of Exceedances	BH206	BH209	BH210	BH213	BH214	BH214	BH214	BH223	BH228	BH228								
Depth to Top								7.22	12.54	12.82	9.58	16.79	18.41	18.4	18.46	8.1	5.29	6.65							
Depth to Bottom								8.15	12.54-13.35	13.33	not supplied	17.69	19.27	19.05	19.20	8.88	8.15	8.23							
Date Sampled								15/08/2018	11/09/2018	08/10/2018	15/01/2019	16/08/2018	16/08/2018	12/09/2018	08/10/2018	15/01/2019	06/02/2019	07/03/2019							
Sample Type								None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied							
Sample Matrix Code																									
DDT								n/a	µg/l	Default	µg/l	0.010	0	< 0.01	< 0.2		< 0.2	< 0.01		< 0.01	< 0.01	< 0.02	< 0.01	< 0.01	
o,p-TDE (o,p-DDD)	DDT	n/a	µg/l	Default	µg/l	0.010	0	< 0.01	0.316		< 0.2	< 0.01		< 0.01	< 0.01	< 0.02	< 0.01	< 0.01							
p,p-DDE		n/a	µg/l	Default	µg/l	0.010	0	< 0.01	< 0.2		< 0.2	< 0.01		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01							
DDT		n/a	µg/l	Default	µg/l	0.010	0	< 0.02	< 0.2		< 0.2	< 0.01		< 0.01	< 0.01	< 0.04	< 0.01	< 0.01							
p,p-TDE (o,p-DDD)	DDT	n/a	µg/l	Default	µg/l	0.010	0	< 0.01	1.16		< 0.2	< 0.01		< 0.01	< 0.01	< 0.02	< 0.01	< 0.01							
Trifluralin		n/a	µg/l	Default	µg/l	0.010	0	< 0.01	< 0.2		< 0.2	< 0.01		< 0.01	< 0.01	< 0.02	< 0.01	< 0.01							
Organonitrogen pesticides																									
Bentazone		n/a	µg/l	Default	µg/l	0.010	0	< 0.01	< 0.01	< 0.5		< 0.01	< 0.01	< 0.01	< 0.5		< 0.01	< 0.1							
Fluroxypyr		n/a	µg/l	Default	µg/l	0.020	0	< 0.02	< 0.02	< 1		< 0.02	< 0.02	0.045	< 1		< 0.02	< 0.2							
Triclopyr		n/a	µg/l	Default	µg/l	0.030	0	< 0.03	< 0.03	< 1.5		< 0.03	< 0.03	< 0.03	< 1.5		< 0.03	< 0.3							
Organophosphorous pesticides																									
Azinphos-ethyl		n/a	µg/l	Default	µg/l	0.020	0	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.08	< 0.02	< 0.02	< 0.02	< 0.02							
Azinphos-methyl		n/a	µg/l	Default	µg/l	0.020	0	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.16	< 0.02	< 0.02	< 0.02	< 0.02							
Chlorfenvinphos		n/a	µg/l	Default	µg/l	0.010	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.04	< 0.01	< 0.01	< 0.01	< 0.01							
Diazinon		n/a	µg/l	Default	µg/l	0.010	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.04	< 0.01	< 0.01	< 0.01	< 0.01							
Dichlorvos		n/a	µg/l	Default	µg/l	0.010	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.04	< 0.01	< 0.01	< 0.01	< 0.01							
Dimethoate		n/a	µg/l	Default	µg/l	0.010	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.04	< 0.01	< 0.01	< 0.01	< 0.01							
E-mevinphos		n/a	µg/l	Default	µg/l	0.010	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.04	< 0.01	< 0.01	< 0.01	< 0.01							
Z-Mevinphos		n/a	µg/l	Default	µg/l	0.010	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.04	< 0.01	< 0.01	< 0.01	< 0.01							
Ethion		n/a	µg/l	Default	µg/l	0.010	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.04	< 0.01	< 0.01	< 0.01	< 0.01							
Fenitrothion		n/a	µg/l	Default	µg/l	0.010	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.04	< 0.01	< 0.01	< 0.01	< 0.01							
Fenthion		n/a	µg/l	Default	µg/l	0.010	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.04	< 0.01	< 0.01	< 0.01	< 0.01							
Malathion		n/a	µg/l	Default	µg/l	0.010	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.04	< 0.01	< 0.01	< 0.01	< 0.01							
Parathion-ethyl		n/a	µg/l	Default	µg/l	0.010	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.04	< 0.01	< 0.01	< 0.01	< 0.01							
Parathion-methyl		n/a	µg/l	Default	µg/l	0.010	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.04	< 0.01	< 0.01	< 0.01	< 0.01							
Phenylurea herbicides																									
Isoproturon		n/a	ng/l	Default	ng/l	10.000	0	< 100	< 100	< 10		< 100	< 100	< 100	< 10		< 10	< 0.01							
Chlortoluron		n/a	ng/l	Default	ng/l	10.000	0	< 100	< 100	< 10		< 100	< 100	< 100	< 10		< 10	< 0.01							
Diflufenzuron		n/a	ng/l	Default	ng/l	20.000	0	< 200	< 200	< 20		< 200	< 200	< 200	< 20		< 20	< 0.02							
Diuron		n/a	ng/l	Default	ng/l	10.000	0	< 100	< 100	< 10		< 100	< 100	< 100	< 10		17	18							
Linuron		n/a	ng/l	Default	ng/l	20.000	0	< 200	< 200	< 20		< 200	< 200	< 200	< 20		< 20	< 0.02							
Methabenzthiazuron		n/a	ng/l	Default	ng/l	10.000	0	< 100	< 100	< 10		< 100	< 100	< 100	< 10		< 10	< 0.01							
Monolinuron		n/a	ng/l	Default	ng/l	20.000	0	< 200	< 200	< 20		< 200	< 200	< 200	< 20		< 20	< 0.02							
Monuron		n/a	ng/l	Default	ng/l	20.000	0	< 200	< 200	112		< 200	< 200	< 200	< 20		< 20	< 0.02							
VFAs																									
Acetic acid		n/a	mg/l	Default	mg/l	10.000	0	< 10	< 10		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10							
Propanoic acid		n/a	mg/l	Default	mg/l	10.000	0	< 10	< 10		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10							
Butyric acid		n/a	mg/l	Default	mg/l	10.000	0	< 10	< 10		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10							
Isobutyric acid		n/a	mg/l	Default	mg/l	10.000	0	< 10	< 10		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10							
Pentanoic acid		n/a	mg/l	Default	mg/l	10.000	0	< 10	< 10		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10							
Isopentanoic acid		n/a	mg/l	Default	mg/l	10.000	0	< 10	< 10		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10							
Hexanoic acid		n/a	mg/l	Default	mg/l	10.000	0	< 10	< 10		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10							
Heptanoic acid		n/a	mg/l	Default	mg/l	11.000	0	< 11	< 11		< 11	< 11	< 11	< 11	< 11	< 11	< 11	< 11							
Pyrethroids																									
Cyfluthrin		n/a	µg/l	Default	µg/l	0.050	0	< 0.05	< 0.05	< 0.05	< 1	< 0.05	< 0.05	< 0.05	< 0.05	< 1	< 0.05	< 0.05							
Cypermethrin		n/a	ng/l	Default	ng/l	50.000	0	< 50	< 50	< 50	< 1000	< 50	< 50	< 50	< 50	< 1000	< 50	< 0.05							
Deltramethrin		n/a	µg/l	Default	µg/l	0.050	0	< 0.05	< 0.05	< 0.05	< 1	< 0.05	< 0.05	< 0.05	< 0.05	< 1	< 0.05	< 0.05							
Permethrin		n/a	µg/l	Default	µg/l	0.010	0	< 0.01	< 0.2		< 0.2	< 0.01		< 0.01	< 0.01	< 0.02	< 0.01	< 0.01							
Permethrin		n/a	µg/l	Default	µg/l	0.010	0	< 0.01	< 0.2		< 0.2	< 0.01		< 0.01	< 0.01	< 0.02	< 0.01	< 0.01							
Organotins																									
Tributyltin compounds		n/a	ng/l	Default	ng/l	1.000	0	< 3	< 6	< 30		< 1	< 30	8.05	< 30		< 1	< 1							
TPT (Triphenyl Tin)		n/a	ng/l	Default	ng/l	1.000	0	< 3	< 6	< 30		< 1	< 30	< 6	< 30		< 1	< 1							
DBT (Dibutyl Tin)		n/a	ng/l	Default	ng/l	5.000	0	< 15	40	< 150		< 5	< 150	< 30	< 150		< 5	< 5							
Chlorophenols																									
Pentachlorophenol		n/a	mg/l	Default	mg/l	0.001	0	< 0.001	< 0.008	< 0.01	< 0.02	< 0.001		< 0.008	< 0.01	< 0.05	< 0.001	< 1							
Others																									
Bromoform		3.1	mg/l	Default	mg/l	0.001	0	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 1							
Carbon Tetrachloride		5.3	mg/l	Default	mg/l	0.001	0	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001								
Lambda-cyhalothrin		n/a	µg/l	Default	µg/l		0	< 0.05	< 0.05	< 0.05	< 1	< 0.05	< 0.05	< 0.05	< 0.05	< 1	< 0.05								
Methane		n/a	µg/l	Default	µg/l		0	2910	8760	1370		17200	4320	621	2330		4600	< 1							

Compound	Notes
PFOS 2,4,5-T 2,4,5-TP 2,4-D Dichlorodiphenyl ether MCPA Mecoprop Fluroxypyr Triclopyr Diuron Monuron	<p>PHE guidance details that both PFOS and PFOA are essentially non-volatile and general public would not be expected to be exposed via inhalation (Public Health England – PFOS and PFOA Toxicological Overview (2009))</p> <p>According to the Pesticide Properties Database- chemical has low volatility (https://sitem.herts.ac.uk/aeru/ppdb/en/atoz.htm)</p>

Appendix E

E4 Groundwater Vapour Analysis

Lab Sample ID														19507816	
Client Sample No	Substitute GAC	Screening value	Units	Screening standard	Units	Limit of Detection - ALS analysis	Number of Exceedances	BH231	BH231	BWS212	BWS212	BWS217	BWS217	WS224	WS224
Depth to Top								7.65	6.89	3.64	3.64	3.17	2.97	4.37	4.3
Depth to Bottom								8.0	8.0	4.45	4.46	4.95	4.95	4.91	4.93
Date Sampled								15/01/2019	06/02/2019	10/09/2018	08/10/2018	14/01/2019	07/02/2019	06/02/2019	07/03/2019
Sample Type								None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Sample Matrix Code															
Inorganics															
Organics															
General inorganics															
pH	n/a	pH units	Default	mg/l			7.14	7	7.44	7.54	7.95	8.02	7.8	7.75	
Total Cyanide	n/a	µg/l	Default	µg/l	50.00	0	51	< 50	< 50	< 50	< 50	< 50	< 50	< 50	
Complex Cyanides	n/a	µg/l	Default	µg/l	50.00	0	51	< 50	< 50	< 50	< 50	< 50	< 50	< 50	
Free Cyanide	n/a	µg/l	Default	µg/l	50.00	0	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	
Thiocyanate as SCN	n/a	µg/l	Default	µg/l	50.00	0	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	
Sulphate as SO4	n/a	µg/l	Default	µg/l	2000.00	0	94300	155000	< 2000	5400	159000	239000	37000	30000	
Sulphide	n/a	µg/l	Default	µg/l	10.00	0	< 10	< 10	360	524	< 10	< 10	155	149	
Chloride	n/a	mg/l	Default	mg/l	2.00	0	174	928	286	313	295	262	135	125	
Fluoride	n/a	µg/l	Default	µg/l	500.00	0	< 500	< 500	731	868	664	605	< 500	< 500	
Ammoniacal Nitrogen as N	n/a	µg/l	Default	µg/l	200.00	0	3950	815	18900	19100	2110	1800	37200	25600	
Nitrate as NO3	n/a	mg/l	Default	mg/l	0.30	0	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	10.3	< 0.3	< 0.3	
Nitrite as NO2	n/a	µg/l	Default	µg/l	50.00	0	< 50	186	< 50	61	< 50	198	< 50	< 50	
Alkalinity	n/a	mg/l	Default	mg/l	2.00	0	1470	259	759	654	160	165	585	545	
Chemical Oxygen Demand (COD)	n/a	mg/l	Default	mg/l	7.00	0	2180	146	103	106	85.2	45.5	221	401	
Biological Oxygen Demand (BOD)	n/a	mg/l	Default	mg/l	1.00	0	62.7	12.1	2.25	< 1.5	2.19	< 1	55	89.5	
Total Oxidised N (Nitrate/-ite)	n/a	mg/l	Default	mg/l	0.10	0	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	2.4	< 0.1	< 0.1	
Total Suspended Solids	n/a	mg/l	Default	mg/l	2.00	0	7880	717	402	150	569	160	141	112	
Hardness - Total	n/a	mg/l	Default	mg/l	0.350	0	2130	902	1170	1040	527	879	2990	-	
Bromide	n/a	mg/l	Default	mg/l	0.060	0	0.888	0.472	0.897	0.857	0.756	0.405	3.73	3.87	
Bromate	n/a	mg/l	Default	mg/l	0.005	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.0109	0.0171	
Phenols															
Cresols	4-Methylphenol	n/a	µg/l	Default	µg/l	6	0	40	< 6	< 6	< 6	< 6	< 6	50	190
Isopropylphenol	Phenol	n/a	µg/l	Default	µg/l	6	0	< 6	< 6	< 6	< 6	< 6	< 6	< 6	550
Phenol	Phenol	n/a	µg/l	Default	µg/l	2	0	40	< 2	< 2	< 2	< 2	< 2	20	30
Trimethylphenol	Phenol	n/a	µg/l	Default	µg/l	3	0	< 3	< 3	< 3	< 3	< 3	< 3	< 3	90
Speciated PAHs															
Naphthalene		23000	µg/l	Default	µg/l	0.01	0	76.1	72.9	1.13	0.0912	0.705	0.141	6710	
Acenaphthylene		20000000	µg/l	Default	µg/l	0.005	0	1.45	0.674	0.173	0.0438	0.0432	0.628	< 0.5	
Acenaphthene		15000000	µg/l	Default	µg/l	0.005	0	9.99	8.82	2.98	2.01	1.65	0.84	1210	
Fluorene		18000000	µg/l	Default	µg/l	0.005	0	7.74	9.8	1.92	0.193	1.03	0.619	962	
Phenanthrene		n/a	µg/l	Default	µg/l	0.005	0	31	26.9	3.08	0.101	1.31	3.88	4270	
Anthracene		n/a	µg/l	Default	µg/l	0.005	0	8.28	5.74	0.952	0.0841	0.336	1.32	996	
Fluoranthene		n/a	µg/l	Default	µg/l	0.005	0	41	31.9	7.05	1.37	1.44	10.6	3050	
Pyrene		n/a	µg/l	Default	µg/l	0.005	0	34.8	24.4	5.98	1.16	1.19	9.83	2370	
Benzo(a)anthracene		n/a	µg/l	Default	µg/l	0.005	0	11.9	5.98	2.99	0.378	0.402	4.87	691	
Chrysene		n/a	µg/l	Default	µg/l	0.005	0	10.1	5.01	2.55	0.343	0.355	3.97	533	
Benzo(b)fluoranthene		n/a	µg/l	Default	µg/l	0.005	0	12.5	10.9	6.23	0.447	0.654	9.23	769	
Benzo(k)fluoranthene		n/a	µg/l	Default	µg/l	0.005	0	5.25	5.46	2.37	0.143	0.304	2.66	468	
Benzo(a)pyrene		n/a	µg/l	Default	µg/l	0.002	0	10.8	7.99	4.4	0.323	0.509	7.24	644	
Indeno(1,2,3-cd)pyrene		n/a	µg/l	Default	µg/l	0.005	0	5.97	4.29	2.61	0.199	0.292	5.24	264	
Dibenzo(a,h)anthracene		n/a	µg/l	Default	µg/l	0.005	0	1.24	1.19	0.674	0.0424	0.0671	1.25	55.1	
Benzo(g,h,i)perylene		n/a	µg/l	Default	µg/l	0.005	0	6.77	6.88	3.54	0.28	0.411	5.86	332	
Heavy metals and metalloids															
Antimony		n/a	µg/l	Default	µg/l	1	0	1.94	2.95	< 1	< 1	< 1	< 1	1.06	< 1
Arsenic		n/a	µg/l	Default	µg/l	0.5	0	11	4.2	3.62	2.99	4.3	1.6	4.26	2.89
Barium		n/a	µg/l	Default	µg/l	0.2	0	338	243	486	487	71	86.1	204	239
Beryllium		n/a	µg/l	Default	µg/l	0.1	0	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Boron		n/a	µg/l	Default	µg/l	10	0	322	95.5	579	586	123	139	529	506
Cadmium >200mg/l CaCO3		n/a	µg/l	Default	µg/l	0.08	0	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08
Calcium		n/a	mg/l	Default	mg/l	0.200	0	244	287	293	298	185	209	66.5	82.4
Chromium VI		n/a	µg/l	Default	µg/l	30.000	0	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 0.03
Chromium III		n/a	µg/l	Default	µg/l	30	0	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 0.03
Chromium Total		n/a	µg/l	Default	µg/l	1	0	1.4	< 1	2.59	1.38	< 1	< 1	1.88	2.82
Copper (bioavailable), DOC <1mg/l		n/a	µg/l	Default	µg/l	0.3	0	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Iron		n/a	mg/l	Default	mg/l	0.019	0	14.3	3.68	5.36	4.63	0.0345	0.0295	0.276	0.342
Lead		n/a	µg/l	Default	µg/l	0.2	0	4.38	0.407	< 0.2	< 0.2	< 0.2	0.201	< 0.2	< 0.2
Magnesium		n/a	mg/l	Default	mg/l	0.036	0	13.6	7.29	11.3	11.1	3.1	3.48	7.24	7.9
Manganese (bioavailable)		n/a	µg/l	Default	µg/l	3	0	2660	373	1240	1220	386	280	113	131
Mercury		n/a	µg/l	Default	µg/l	0.01	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Molybdenum		n/a	µg/l	Default	µg/l	3	0	6.07	7.06	< 3	< 3	11.4	10.5	9.18	4
Nickel >200 mg/l CaCO3		n/a	µg/l	Default	µg/l	0.4	0	35.2	24.1	2.35	1.96	1.91	2	10.7	8.31
Potassium		n/a	mg/l	Default	mg/l	0.2	0	15.2	21.8	34.5	33.8	4.51	5.19	13.9	13
Selenium		n/a	µg/l	Default	µg/l	1	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Sodium		n/a	mg/l	Default	mg/l	0.076	0	107	361	91.5	87.4	100	106	244	201
Vanadium		n/a	µg/l	Default	µg/l	1	0	3.2	3.33	2.68	2.46	< 1	< 1	1.9	1.83
Zinc >250 mg/l CaCO3		n/a	µg/l	Default	µg/l	1	0	75.9	75	1.09	8.73	< 1	3.88	1.17	7.24
Monoaromatics															
Benzene		20000	µg/l	Default	µg/l	1.000	0	< 1	< 1	< 1	1.36	< 1	< 1	11	11.4
Toluene		21000000	µg/l	Default	µg/l	1.000	0	4.31	8.19	< 1	< 1	< 1	< 1	401	541
Ethylbenzene		960000	µg/l	Default	µg/l	1.000	0	26.4	10.3	< 1	< 1	< 1	< 1	415	364
Xylenes		940000	µg/l	Default	µg/l	2.000	0	129	71.5	8.6	7.14	< 2	< 2	3170	2280
MTBE		7800000	µg/l	Default	µg/l	1.000	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Petroleum hydrocarbons															
TPH >C5-C6 Aliphatics		190000	µg/l	Default	µg/l	10.000	0	< 10	< 10	< 10	< 10	< 10	< 10	14	18
TPH >C6-C8 Aliphatics		150000	µg/l	Default	µg/l	10.000	0	58	17	< 10	< 10	< 10	< 10	282	330
TPH >C8-C10 Aliphatics		5700	µg/l	Default	µg/l	10.000	0	568	176	< 10	< 10	< 10	< 10	3390	4120
TPH >C10-C12 Aliphatics		3600	µg/l	Default	µg/l	10.000	2	912	303	< 10	< 10	< 10	< 10	3640	4510
TPH >C12-C16 Aliphatics		n/a	µg/l	Default	µg/l	10.000	0	2460	4570	37	< 10	< 10	23	17700	
TPH >C16-C21 Aliphatics		n/a	µg/l	Default	µg/l	10.000	0	10400	22400	124	< 10	73	216	74300	
TPH >C21-C35 Aliphatics		n/a	µg/l	Default	µg/l	10.000	0	45400	99900	523	38	535	1820	329000	
TPH-CWG - Aliphatic >C16 - C35		n/a	µg/l	Default	µg/l	10.000	0	55800	1						

Appendix E

E4 Groundwater Vapour Analysis

Lab Sample ID															19507816
Client Sample No	Substitute GAC	Screening value	Units	Screening standard	Units	Limit of Detection - ALS analysis	Number of Exceedances	BH231	BH231	BWS212	BWS212	BWS217	BWS217	WS224	WS224
Depth to Top								7.65	6.89	3.64	3.64	3.17	2.97	4.37	4.3
Depth to Bottom								8.0	8.0	4.45	4.46	4.95	4.95	4.91	4.93
Date Sampled								15/01/2019	06/02/2019	10/09/2018	08/10/2018	14/01/2019	07/02/2019	06/02/2019	07/03/2019
Sample Type	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied							
Sample Matrix Code															
TPH >C10-C12 Aromatics		660000	µg/l	Default	µg/l	10.000	0	608	202	< 10	< 10	< 10	< 10	2420	3010
TPH >C12-C16 Aromatics		3700000	µg/l	Default	µg/l	10.000	0	631	910	17	< 10	< 10	17		5760
TPH >C16-C21 Aromatics		n/a	µg/l	Default	µg/l	10.000	0	2170	3880	73	< 10	15	82		16300
TPH >C21-C35 Aromatics		n/a	µg/l	Default	µg/l	10.000	0	10000	19900	212	< 10	< 10	360		84200
VOCs															
Chloromethane		1400	µg/l	Default	µg/l	1.000	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroethane		1000000	µg/l	Default	µg/l	1.000	0	< 1	< 1	< 1	< 1	< 1	< 1	3.04	3.63
Bromomethane	Bromodichloromethane	1600	µg/l	Default	µg/l	1.000	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Vinyl Chloride		63	µg/l	Default	µg/l	1.000	0	< 1	< 1	< 1	< 1	< 1	< 1	6.7	7.04
Trichlorofluoromethane	Bromodichloromethane	1600	µg/l	Default	µg/l	1.000	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethene		16000	µg/l	Default	µg/l	1.000	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Cis-1,2 Dichloroethene		13000	µg/l	Default	µg/l	1.000	0	1.55	2.06	< 1	< 1	< 1	< 1	7.15	12.8
MTBE		7800000	µg/l	Default	µg/l	1.000	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1 -Dichloroethane		260000	µg/l	Default	µg/l	1.000	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2,2-Dichloropropane	1,2-Dichloropropane	2600	µg/l	Default	µg/l	1.000	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloromethane		85000	µg/l	Default	µg/l	1.000	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane		290000	µg/l	Default	µg/l	1.000	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethane		850	µg/l	Default	µg/l	1.000	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloropropene	1,2-Dichloropropane	2600	µg/l	Default	µg/l	1.000	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trans-1,2 Dichloroethene		16000	µg/l	Default	µg/l	1.000	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Benzene		20000	µg/l	Default	µg/l	1.000	0	< 1	< 1	< 1	1.36	< 1	< 1	11	11.4
Tetrachloromethane		770	µg/l	Default	µg/l	-	0								< 1
1,2-Dichloropropane		2600	µg/l	Default	µg/l	1.000	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene		530	µg/l	Default	µg/l	1.000	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dibromomethane	Dichloromethane	370,000	µg/l	Default	µg/l	1.000	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane		1600	µg/l	Default	µg/l	1.000	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Cis-1,3 Dichloropropene	1,2-Dichloropropane	2600	µg/l	Default	µg/l	1.000	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trans-1,3 Dichloropropene	1,2-Dichloropropane	2600	µg/l	Default	µg/l	1.000	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Toluene		21000000	µg/l	Default	µg/l	1.000	0	4.31	8.19	< 1	< 1	< 1	< 1	401	541
1,1,2-Trichloroethane		49000	µg/l	Default	µg/l	1.000	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3-Dichloropropane	1,2-Dichloropropane	2600	µg/l	Default	µg/l	1.000	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dibromochloromethane	Dichloromethane	370000	µg/l	Default	µg/l	1.000	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethene		4600	µg/l	Default	µg/l	1.000	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dibromoethane	1,2-Dichloroethane	850	µg/l	Default	µg/l	1.000	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chlorobenzene		15000	µg/l	Default	µg/l	1.000	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1,2-Tetrachloroethane		22000	µg/l	Default	µg/l	1.000	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ethylbenzene		960000	µg/l	Default	µg/l	1.000	0	26.4	10.3	< 1	< 1	< 1	< 1	415	364
m,p-Xylenes		940000	µg/l	Default	µg/l	1.000	0	108	57.9	8.6	7.14	< 1	< 1	2870	1950
Styrene		8800	µg/l	Default	µg/l	1.000	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
o-Xylene		1100000	µg/l	Default	µg/l	1.000	0	21.4	13.6	< 1	< 1	< 1	< 1	301	325
1,1,2,2-Tetrachloroethane		150000	µg/l	Default	µg/l	1.000	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Iso-propylbenzene		86000	µg/l	Default	µg/l	1.000	0	2.35	< 1	< 1	< 1	< 1	< 1	16.7	12.1
Bromobenzene		20000	µg/l	Default	µg/l	1.000	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Propylbenzene		240000	µg/l	Default	µg/l	1.000	0	7.27	1.32	< 1	< 1	< 1	< 1	61.3	41.2
2-Chlorotoluene		n/a	µg/l	Default	µg/l	1.000	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
4-Chlorotoluene		n/a	µg/l	Default	µg/l	1.000	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3,5 Trimethylbenzene	1,2,4-TrimethylBenzene	2200	µg/l	Default	µg/l	1.000	0	69.2	34.8	< 1	< 1	< 1	< 1	500	410
tert-Butylbenzene	Benzene	20000	µg/l	Default	µg/l	1.000	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,4 Trimethylbenzene		2200	µg/l	Default	µg/l	1.000	2	173	64.8	2.85	1.97	< 1	< 1	4490	3040
sec-Butylbenzene	Benzene	20000	µg/l	Default	µg/l	1.000	0	2.2	< 1	< 1	< 1	< 1	< 1	12.3	8.37
1,3 Dichlorobenzene		2800	µg/l	Default	µg/l	1.000	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
p-Isopropyltoluene	Benzene	20000	µg/l	Default	µg/l	1.000	0	1.85	< 1	2.11	2.03	< 1	< 1	11.1	9.24
1,2-Dichlorobenzene		220000	µg/l	Default	µg/l	1.000	0	2.66	< 1	< 1	< 1	< 1	< 1	15.9	13.7
1,4 Dichlorobenzene		460000	µg/l	Default	µg/l	1.000	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	2.65
n-Butylbenzene	Benzene	20000	µg/l	Default	µg/l	1.000	0	< 1	< 1	< 1	< 1	< 1	< 1	45.9	< 1
1,2-Dibromo-3-chloropropane	Benzene	20000	µg/l	Default	µg/l	1.000	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,4-Trichlorobenzene		7200	µg/l	Default	µg/l	1.000	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Hexachlorobutadiene		230	µg/l	Default	µg/l	1.000	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-Trichlorobenzene		3100	µg/l	Default	µg/l	1.000	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-Trichloropropane	1,2-Dichloropropane	2600	µg/l	Default	µg/l	1.000	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3,5-Trichlorobenzene		660	µg/l	Default	µg/l	1.000	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromochloromethane	Bromodichloromethane	1600	µg/l	Default	µg/l	1.000	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dichloromethane		370000	µg/l	Default	µg/l	3.000	0	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Carbon disulphide		5600	µg/l	Default	µg/l	1.000	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dichlorodifluoromethane	Dichloromethane	370000	µg/l	Default	µg/l	1.000	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
SVOCS															
Phenol		n/a	µg/l	Default	µg/l	1.000	0	< 10	< 1	< 5	< 50	< 2	< 4	< 10	< 100
2-Chlorophenol		n/a	µg/l	Default	µg/l	1.000	0	< 10	< 1	< 5	< 50	< 2	< 4	< 10	< 100
Bis(2-chloroethyl)ether		n/a	µg/l	Default	µg/l	1.000	0	< 10	< 1	< 5	< 50	< 2	< 4	< 10	< 100
2-Methylphenol		n/a	µg/l	Default	µg/l	1.000	0	< 10	< 1	< 5	< 50	< 2	< 4	< 10	< 100
Hexachloroethane		740	µg/l	Default	µg/l	1.000	0	< 10	< 1	< 5	< 50	< 2	< 4	< 10	< 100
Nitrobenzene	Benzene	20000	µg/l	Default	µg/l	1.000	0	< 10	< 1	< 5	< 50	< 2	< 4	< 10	< 100
4-Methylphenol		n/a	µg/l	Default	µg/l	1.000	0	< 10	< 1	< 5	< 50	< 2	< 4	< 10	< 100
Isophorone	Benzene	20000	µg/l	Default	µg/l	1.000	0								

Appendix E

E4 Groundwater Vapour Analysis

Lab Sample ID																19507816							
Client Sample No	Substitute GAC	Screening value	Units	Screening standard	Units	Limit of Detection - ALS analysis	Number of Exceedances	BH231	BH231	BWS212	BWS212	BWS217	BWS217	WS224	WS224								
Depth to Top								7.65	6.89	3.64	3.64	3.17	2.97	4.37	4.3								
Depth to Bottom								8.0	8.0	4.45	4.46	4.95	4.95	4.91	4.93								
Date Sampled								15/01/2019	06/02/2019	10/09/2018	08/10/2018	14/01/2019	07/02/2019	06/02/2019	07/03/2019								
Sample Type								None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied								
Sample Matrix Code																							
Diethyl phthalate		n/a	µg/l	Default	µg/l	1.000	0	< 10	< 1	< 5	< 50	< 2	< 4	< 10	< 100								
Bromophenyl phenyl ether		n/a	µg/l	Default	µg/l	1.000	0	< 10	< 1	< 5	< 50	< 2	< 4	< 10	< 100								
Hexachlorobenzene		1400	µg/l	Default	µg/l	1.000	0	< 10	< 1	< 5	< 50	< 2	< 4	< 10	< 100								
Phenanthrene		n/a	µg/l	Default	µg/l	0.005	0	31	26.9	3.08	0.101	1.31	3.88		4270								
Carbazole	Benzene	20000	µg/l	Default	µg/l	1.000	0	12.6	< 1	< 5	< 50	< 2	< 4	< 10	< 100								
Di-n-butyl phthalate		n/a	µg/l	Default	µg/l	1.000	0	2790	24.5	< 5	< 50	< 2	< 4	< 10	< 100								
Butyl benzyl phthalate		n/a	µg/l	Default	µg/l	1.000	0	10500	101	< 5	< 50	< 2	< 4	47.5	< 100								
PCBs by GC-ECD - WHO 12																							
PCB Congener 77		n/a	µg/l	Default	µg/l	0.015	0	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015		< 0.015								
PCB Congener 81		n/a	µg/l	Default	µg/l	0.015	0	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015		< 0.015								
PCB Congener 105		n/a	µg/l	Default	µg/l	0.015	0	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015		< 0.015								
PCB Congener 114		n/a	µg/l	Default	µg/l	0.015	0	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015		< 0.015								
PCB Congener 118		n/a	µg/l	Default	µg/l	0.015	0	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015		< 0.015								
PCB Congener 123		n/a	µg/l	Default	µg/l	0.015	0	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015		< 0.015								
PCB Congener 126		n/a	µg/l	Default	µg/l	0.015	0	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015		< 0.015								
PCB Congener 156		n/a	µg/l	Default	µg/l	0.015	0	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015		< 0.015								
PCB Congener 157		n/a	µg/l	Default	µg/l	0.015	0	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015		< 0.015								
PCB Congener 167		n/a	µg/l	Default	µg/l	0.015	0	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015		< 0.015								
PCB Congener 169		n/a	µg/l	Default	µg/l	0.015	0	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015		< 0.015								
PCB Congener 189		n/a	µg/l	Default	µg/l	0.015	0	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015		< 0.015								
Environmental Forensics																							
PFOA		n/a	µg/l	Default	µg/l	0.065	0	< 0.0325	0.00639	0.00756	0.00939	0.0213	0.0136	0.014	0.0199								
Chloroxuron		n/a	µg/l	Default	µg/l	0.010	0		< 0.01	< 0.1	< 0.01	< 0.01	< 0.01	< 0.1	< 0.1								
Chlorpropham		n/a	µg/l	Default	µg/l	0.050	0		< 0.05	< 0.5	< 0.05	< 0.05	< 0.05	< 0.5	< 0.5								
Ethiofencarb		n/a	µg/l	Default	µg/l	0.020	0		< 0.02	< 0.2	< 0.02	< 0.02	< 0.02	< 0.2	< 0.2								
Propham		n/a	µg/l	Default	µg/l	0.050	0		< 0.05	< 0.5	< 0.05	< 0.05	< 0.05	< 0.5	< 0.5								
Dimefuron		n/a	µg/l	Default	µg/l	0.020	0		< 0.02	< 0.2	< 0.02	< 0.02	< 0.02	< 0.2	< 0.2								
Metoxuron		n/a	µg/l	Default	µg/l	0.010	0		< 0.01	< 0.1	< 0.01	< 0.01	< 0.01	< 0.1	< 0.1								
Pencycuron		n/a	µg/l	Default	µg/l	0.020	0		< 0.02	< 0.2	< 0.02	< 0.02	< 0.02	< 0.2	< 0.2								
o,p-Methoxychlor		n/a	µg/l	Default	µg/l	0.010	0		< 0.01	< 0.2	< 0.02	< 0.01	< 0.01	< 0.01	< 0.2								
Demeton-s-methyl		n/a	µg/l	Default	µg/l	0.010	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01								
Diclofop		n/a	µg/l	Default	µg/l	0.020	0		< 0.02	< 0.02	< 1	< 0.02	< 0.02	< 0.02	< 0.2								
Cyhalothrin		n/a	µg/l	Default	µg/l	0.050	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05								
Atrazine-methoxy		n/d	µg/l	Default	µg/l	-	0																
Bromacil		n/a	µg/l	Default	µg/l	0.010	0		< 0.01	< 0.1	< 0.01	< 0.01	< 0.01	< 0.1	< 0.1								
4-Nitrophenol		n/a	µg/l	Default	µg/l	1.000	0	< 10	< 1	< 5	< 50	< 2	< 4	< 10	< 100								
Hexachlorocyclopentadiene	Chlorobenzene	15000	µg/l	Default	µg/l	1.000	0	< 10	< 1	< 5	< 50	< 2	< 4	< 10	< 100								
n-Nitroso-n-dipropylamine	1,2-Dichloropropane	2600	µg/l	Default	µg/l	1.000	0	< 10	< 1	< 5	< 50	< 2	< 4	< 10	< 100								
Carbamates																							
Pirimicarb		n/a	ng/l	Default	ng/l	10.000	0		< 10	< 100	< 10	< 10	< 10	< 100	< 0.1								
Carbetamide		n/a	ng/l	Default	ng/l	100.000	0		< 100	< 100	< 100	< 100	< 100	< 100	< 0.1								
Phthalates																							
Bis(2-ethylhexyl)phthalate		n/a	µg/l	Default	µg/l	2.000	0	235	6.79	< 10	< 100	< 4	< 8	< 20	< 200								
Di-n-octyl phthalate		n/a	µg/l	Default	µg/l	5.000	0	< 50	< 5	< 25	< 250	< 10	< 20	< 50	< 500								
Glycols																							
Rodenticides																							
Triazine Pesticides																							
Atrazine		n/a	µg/l	Default	µg/l	0.010	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01								
Simazine		n/a	µg/l	Default	µg/l	0.010	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01								
Prometryn		n/a	µg/l	Default	µg/l	0.010	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01								
Propazine		n/a	µg/l	Default	µg/l	0.010	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01								
Terbutylazine		n/d	µg/l	Default	µg/l	-	0																
Terbutryn		n/a	µg/l	Default	µg/l	0.010	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01								
Acid herbicides esters																							
Acid Herbicides																							
2,3,6-TBA		n/a	µg/l	Default	µg/l	0.100	0		< 1	< 5	< 100	< 1	< 1	< 1	< 10								
Benazolin		n/a	µg/l	Default	µg/l	0.050	0		< 0.05	< 0.05	< 2.5	< 0.05	< 0.05	< 0.05	< 0.5								
Bromoxynil		n/a	µg/l	Default	µg/l	0.010	0		< 0.01	< 0.01	< 0.5	< 0.01	< 0.01	< 0.01	< 0.1								
Clopyralid		n/a	µg/l	Default	µg/l	0.030	0		< 0.03	< 0.3	< 1.5	< 0.03	< 0.03	< 0.03	< 0.3								
Ioxynil		n/a	µg/l	Default	µg/l	0.010	0		< 0.01	< 0.01	< 0.5	< 0.01	< 0.01	< 0.01	< 0.1								
2,4,5-T		n/a	µg/l	Default	µg/l	0.010	0		< 0.01	< 0.01	< 0.5	< 0.01	< 0.01	0.016	< 0.1								
2,4,5-TP		n/a	µg/l	Default	µg/l	0.010	0		< 0.1	< 0.01	< 0.5	< 0.1	< 0.1	< 0.1	< 0.1								
2,4-D		n/a	µg/l	Default	µg/l	0.010	0		< 0.01	< 0.01	< 0.5	< 0.01	< 0.01	0.064	< 0.1								
2,4-DB		n/a	µg/l	Default	µg/l	0.020	0		< 0.02	< 0.02	< 1	< 0.02	< 0.02	< 0.02	< 0.2								
Dicamba		n/a	µg/l	Default	µg/l	0.030	0		< 0.03	< 0.03	< 1.5	< 0.03	< 0.03	< 0.03	< 0.3								
Dichlorprop		n/a	µg/l	Default	µg/l	0.010	0		0.015	< 0.01	< 0.5	< 0.01	< 0.01	0.363	0.219								
MCPA		n/a	µg/l	Default	µg/l	0.010	0		< 0.01	< 0.01	< 0.5	< 0.01	< 0.01	0.037	< 0.1								
MCPB		n/a	µg/l	Default	µg/l	0.020	0		< 0.02	< 0.02	< 1	< 0.02	< 0.02	< 0.2	< 0.2								
Mecoprop		n/a	µg/l	Default	µg/l	0.010	0		< 0.01	0.045	< 0.5	0.094	0.032	0.254	0.132								
Picloram		n/a	µg/l	Default	µg/l	0.020	0		< 0.02	< 0.2	< 1	< 0.2	< 0.02	< 0.02	< 0.2								
4-Chlorophenoxyacetic acid		n/d	µg/l	Default	µg/l	-	0																
Organochlorine Pesticides																							
Aldrin		3700	µg/l	Default	µg/l	0.010	0		< 0.01	< 0.2	< 0.02	< 0.01	< 0.01	< 0.01	< 0.2								
alpha-HCH (alpha-BHC)		n/a	µg/l	Default																			

Appendix E

E4 Groundwater Vapour Analysis

Lab Sample ID																19507816						
Client Sample No	Substitute GAC	Screening value	Units	Screening standard	Units	Limit of Detection - ALS analysis	Number of Exceedances	BH231	BH231	BWS212	BWS212	BWS217	BWS217	WS224	WS224							
Depth to Top								7.65	6.89	3.64	3.64	3.17	2.97	4.37	4.3							
Depth to Bottom								8.0	8.0	4.45	4.46	4.95	4.95	4.91	4.93							
Date Sampled								15/01/2019	06/02/2019	10/09/2018	08/10/2018	14/01/2019	07/02/2019	06/02/2019	07/03/2019							
Sample Type								None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied							
Sample Matrix Code																						
DDT								n/a	µg/l	Default	µg/l	0.010	0	< 0.01	< 0.2	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.2
o,p-TDE (o,p-DDD)								DDT	n/a	µg/l	Default	µg/l	0.010	0	< 0.01	< 0.2	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.2
p,p-DDE		n/a	µg/l	Default	µg/l	0.010	0	< 0.01	< 0.2	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.2							
DDT		n/a	µg/l	Default	µg/l	0.010	0	< 0.01	< 0.2	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.2							
p,p-TDE (o,p-DDD)	DDT	n/a	µg/l	Default	µg/l	0.010	0	< 0.01	< 0.2	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.2							
Trifluralin		n/a	µg/l	Default	µg/l	0.010	0	< 0.01	< 0.2	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.2							
Organonitrogen pesticides																						
Bentazone		n/a	µg/l	Default	µg/l	0.010	0	< 0.01	< 0.01	< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1							
Fluroxypyr		n/a	µg/l	Default	µg/l	0.020	0	< 0.02	< 0.02	< 1	< 0.02	< 0.02	0.034	< 0.2								
Triclopyr		n/a	µg/l	Default	µg/l	0.030	0	< 0.03	< 0.03	< 1.5	< 0.03	< 0.03	0.089	< 0.3								
Organophosphorous pesticides																						
Azinphos-ethyl		n/a	µg/l	Default	µg/l	0.020	0	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02							
Azinphos-methyl		n/a	µg/l	Default	µg/l	0.020	0	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02							
Chlorfenvinphos		n/a	µg/l	Default	µg/l	0.010	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01							
Diazinon		n/a	µg/l	Default	µg/l	0.010	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.2							
Dichlorvos		n/a	µg/l	Default	µg/l	0.010	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01							
Dimethoate		n/a	µg/l	Default	µg/l	0.010	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01							
E-mevinphos		n/a	µg/l	Default	µg/l	0.010	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01							
Z-Mevinphos		n/a	µg/l	Default	µg/l	0.010	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01							
Ethion		n/a	µg/l	Default	µg/l	0.010	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01							
Fenitrothion		n/a	µg/l	Default	µg/l	0.010	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01							
Fenthion		n/a	µg/l	Default	µg/l	0.010	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01							
Malathion		n/a	µg/l	Default	µg/l	0.010	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01							
Parathion-ethyl		n/a	µg/l	Default	µg/l	0.010	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01							
Parathion-methyl		n/a	µg/l	Default	µg/l	0.010	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01							
Phenylurea herbicides																						
Isoproturon		n/a	ng/l	Default	ng/l	10.000	0	< 10	< 100	< 10	< 10	< 10	< 10	< 100	< 0.1							
Chlortoluron		n/a	ng/l	Default	ng/l	10.000	0	< 10	< 100	< 10	< 10	< 10	< 10	< 100	< 0.1							
Diflufenzuron		n/a	ng/l	Default	ng/l	20.000	0	< 20	< 200	< 20	< 20	< 20	< 200	< 200	< 0.2							
Diuron		n/a	ng/l	Default	ng/l	10.000	0	29	< 100	15	130	86	< 100	< 100	< 100							
Linuron		n/a	ng/l	Default	ng/l	20.000	0	< 20	< 200	< 20	< 20	< 20	< 200	< 200	< 0.2							
Methabenzthiazuron		n/a	ng/l	Default	ng/l	10.000	0	< 10	< 100	< 10	< 10	< 10	< 100	< 0.1								
Monolinuron		n/a	ng/l	Default	ng/l	20.000	0	< 20	< 200	< 20	< 20	< 20	< 200	< 200	< 0.2							
Monuron		n/a	ng/l	Default	ng/l	20.000	0	< 20	205	225	86	54	< 200	< 200								
VFAs																						
Acetic acid		n/a	mg/l	Default	mg/l	10.000	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10							
Propanoic acid		n/a	mg/l	Default	mg/l	10.000	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10							
Butyric acid		n/a	mg/l	Default	mg/l	10.000	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10							
Isobutyric acid		n/a	mg/l	Default	mg/l	10.000	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10							
Pentanoic acid		n/a	mg/l	Default	mg/l	10.000	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10							
Isopentanoic acid		n/a	mg/l	Default	mg/l	10.000	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10							
Hexanoic acid		n/a	mg/l	Default	mg/l	10.000	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10							
Heptanoic acid		n/a	mg/l	Default	mg/l	11.000	0	< 11	< 11	< 11	< 11	< 11	< 11	< 11	< 11							
Pyrethroids																						
Cyfluthrin		n/a	µg/l	Default	µg/l	0.050	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05							
Cypermethrin		n/a	ng/l	Default	ng/l	50.000	0	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 0.05							
Deltramethrin		n/a	µg/l	Default	µg/l	0.050	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05							
Permethrin		n/a	µg/l	Default	µg/l	0.010	0	< 0.01	< 0.2	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.2							
Permethrin		n/a	µg/l	Default	µg/l	0.010	0	< 0.01	< 0.2	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.2							
Organotins																						
Tributyltin compounds		n/a	ng/l	Default	ng/l	1.000	0	< 6	4.52	5.49	< 1	32.4		355								
TPT (Triphenyl Tin)		n/a	ng/l	Default	ng/l	1.000	0	< 6	< 1	< 1	< 1	< 6		< 6								
DBT (Dibutyl Tin)		n/a	ng/l	Default	ng/l	5.000	0	< 30	< 5	< 5	< 5	< 30		240								
Chlorophenols																						
Pentachlorophenol		n/a	mg/l	Default	mg/l	0.001	0	< 0.01	< 0.001	< 0.005	< 0.05	< 0.002	< 0.004	< 0.01	< 100							
Others																						
Bromoform		3.1	mg/l	Default	mg/l	0.001	0	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 1							
Carbon Tetrachloride		5.3	mg/l	Default	mg/l	0.001	0	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001								
Lambda-cyhalothrin		n/a	µg/l	Default	µg/l	0	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05								
Methane		n/a	µg/l	Default	µg/l	0	0	4580	20900	22100	173	1.07	17900	15500								

Compound	Notes
PFOS 2,4,5-T 2,4,5-TP 2,4-D Dichlorodip MCPA Mecoprop Fluroxypyr Triclopyr Diuron Monuron	<p>PHE guidance details that both PFOS and PFOA are essentially non-volatile and general public would not be expected to be exposed via inhalation (Public Health England – PFOS and PFOA Toxicological Overview (2009))</p> <p>According to the Pesticide Properties Database- chemical has low volatility (https://sitem.herts.ac.uk/aeru/ppdb/en/atoz.htm)</p>

Appendix E

E5 PCB Sheets

PCDDs, PCDFs and dioxin-like compounds worksheet for a commercial land use scenario

This worksheet should be used only in conjunction with *Soil Guideline Values for dioxins, furans and dioxin-like PCBs in soil, Science Report SC050021 / Dioxins SGV*

For each congener/compound, enter the site-specific representative soil concentration in the respective grey box. The Hazard Index is the ratio of the total soil exposure to the oral TDSI.

Substance	Soil Concentration		Exposure Factor		TEF		Average Daily Exposure	Contribution to ADE
	ng kg ⁻¹ DW		pg kg ⁻¹ BW day ⁻¹ per ng kg ⁻¹ DW soil		-		pg WHO-TEQ kg ⁻¹ BW day ⁻¹	%
2,3,7,8-TCDD	9.06E-01	x	4.75E-04	x	1	=	4.31E-04	14.9
1,2,3,7,8-PeCDD	1.31E+00	x	4.75E-04	x	1	=	6.23E-04	21.5
1,2,3,4,7,8-HxCDD	1.15E+00	x	4.75E-04	x	0.1	=	5.47E-05	1.9
1,2,3,6,7,8-HxCDD	2.30E+00	x	4.75E-04	x	0.1	=	1.09E-04	3.8
1,2,3,7,8,9-HxCDD	1.94E+00	x	4.75E-04	x	0.1	=	9.22E-05	3.2
1,2,3,4,6,7,8-HpCDD	2.78E+01	x	4.75E-04	x	0.01	=	1.32E-04	4.6
OCDD	1.91E+02	x	4.75E-04	x	0.0003	=	2.72E-05	0.9
2,3,7,8-TCDF	2.28E+00	x	4.75E-04	x	0.1	=	1.08E-04	3.7
1,2,3,7,8-PeCDF	2.25E+00	x	4.75E-04	x	0.03	=	3.21E-05	1.1
2,3,4,7,8-PeCDF	2.85E+00	x	4.75E-04	x	0.3	=	4.06E-04	14.1
1,2,3,4,7,8-HxCDF	3.88E+00	x	4.75E-04	x	0.1	=	1.84E-04	6.4
1,2,3,7,8,9-HxCDF	2.55E-01	x	4.75E-04	x	0.1	=	1.21E-05	0.4
1,2,3,6,7,8-HxCDF	3.13E+00	x	4.75E-04	x	0.1	=	1.49E-04	5.1
2,3,4,6,7,8-HxCDF	3.96E+00	x	4.75E-04	x	0.1	=	1.88E-04	6.5
1,2,3,4,6,7,8-HpCDF	1.57E+01	x	4.75E-04	x	0.01	=	7.46E-05	2.6
1,2,3,4,7,8,9-HpCDF	1.31E+00	x	4.75E-04	x	0.01	=	6.23E-06	0.2
OCDF	8.59E+00	x	4.75E-04	x	0.0003	=	1.22E-06	0.0
PCB-77	3.76E+01	x	5.57E-04	x	0.0001	=	2.09E-06	0.1
PCB-81	2.17E+00	x	5.57E-04	x	0.0003	=	3.63E-07	0.0
PCB-126	4.12E+00	x	5.57E-04	x	0.1	=	2.30E-04	7.9
PCB-169	1.30E+00	x	5.57E-04	x	0.03	=	2.17E-05	0.8
PCB-105	1.01E+02	x	5.57E-04	x	0.00003	=	1.69E-06	0.1
PCB-114	5.49E+00	x	5.57E-04	x	0.00003	=	9.17E-08	0.0
PCB-118	2.09E+02	x	5.57E-04	x	0.00003	=	3.49E-06	0.1
PCB-123	8.65E+00	x	5.57E-04	x	0.00003	=	1.45E-07	0.0
PCB-156	3.65E+01	x	5.57E-04	x	0.00003	=	6.10E-07	0.0
PCB-157	8.46E+00	x	5.57E-04	x	0.00003	=	1.41E-07	0.0
PCB-167	1.79E+01	x	5.57E-04	x	0.00003	=	2.99E-07	0.0
PCB-189	8.73E+00	x	5.57E-04	x	0.00003	=	1.46E-07	0.0

Total WHO-TEQ ADE	2.89E-03	pg WHO-TEQ kg ⁻¹ BW day ⁻¹
TDSI	1.30E+00	pg WHO-TEQ kg ⁻¹ BW day ⁻¹
Hazard Index	0.00	

PCDDs, PCDFs and dioxin-like compounds worksheet for a commercial land use scenario

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For each congener/compound, enter the site-specific representative soil concentration in the respective grey box. The Hazard Index is the ratio of the total soil exposure to the oral TDSI.

Substance	Soil Concentration		Exposure Factor		TEF	Average Daily Exposure	Contribution to ADE
	ng kg ⁻¹ DW		pg kg ⁻¹ BW day ⁻¹ per ng kg ⁻¹ DW soil		-		
2,3,7,8-TCDD	0.00E+00	x	4.75E-04	x	1	=	#VALUE!
1,2,3,7,8-PeCDD	2.01E+00	x	4.75E-04	x	1	=	9.55E-04
1,2,3,4,7,8-HxCDD	2.53E+00	x	4.75E-04	x	0.1	=	1.20E-04
1,2,3,6,7,8-HxCDD	1.28E+01	x	4.75E-04	x	0.1	=	6.08E-04
1,2,3,7,8,9-HxCDD	8.53E+00	x	4.75E-04	x	0.1	=	4.05E-04
1,2,3,4,6,7,8-HpCDD	5.70E+02	x	4.75E-04	x	0.01	=	2.71E-03
OCDD	4.61E+03	x	4.75E-04	x	0.0003	=	6.57E-04
2,3,7,8-TCDF	9.99E+00	x	4.75E-04	x	0.1	=	4.75E-04
1,2,3,7,8-PeCDF	3.94E+00	x	4.75E-04	x	0.03	=	5.62E-05
2,3,4,7,8-PeCDF	6.66E+00	x	4.75E-04	x	0.3	=	9.50E-04
1,2,3,4,7,8-HxCDF	8.20E+00	x	4.75E-04	x	0.1	=	3.90E-04
1,2,3,7,8,9-HxCDF	5.15E+00	x	4.75E-04	x	0.1	=	2.45E-04
1,2,3,6,7,8-HxCDF	6.97E+00	x	4.75E-04	x	0.1	=	3.31E-04
2,3,4,6,7,8-HxCDF	3.41E-01	x	4.75E-04	x	0.1	=	1.62E-05
1,2,3,4,6,7,8-HpCDF	9.62E+01	x	4.75E-04	x	0.01	=	4.57E-04
1,2,3,4,7,8,9-HpCDF	6.33E+00	x	4.75E-04	x	0.01	=	3.01E-05
OCDF	1.14E+02	x	4.75E-04	x	0.0003	=	1.63E-05
PCB-77	1.67E+05	x	5.57E-04	x	0.0001	=	9.30E-03
PCB-81	6.83E+03	x	5.57E-04	x	0.0003	=	1.14E-03
PCB-126	1.21E+03	x	5.57E-04	x	0.1	=	6.74E-02
PCB-169	6.41E+00	x	5.57E-04	x	0.03	=	1.07E-04
PCB-105	1.34E+05	x	5.57E-04	x	0.00003	=	2.24E-03
PCB-114	9.89E+03	x	5.57E-04	x	0.00003	=	1.65E-04
PCB-118	1.85E+05	x	5.57E-04	x	0.00003	=	3.09E-03
PCB-123	4.66E+03	x	5.57E-04	x	0.00003	=	7.79E-05
PCB-156	1.15E+04	x	5.57E-04	x	0.00003	=	1.92E-04
PCB-157	2.55E+03	x	5.57E-04	x	0.00003	=	4.26E-05
PCB-167	3.00E+03	x	5.57E-04	x	0.00003	=	5.01E-05
PCB-189	9.50E+02	x	5.57E-04	x	0.00003	=	1.59E-05

Total WHO-TEQ ADE	9.23E-02	pg WHO-TEQ kg ⁻¹ BW day ⁻¹
TDSI	1.30E+00	pg WHO-TEQ kg ⁻¹ BW day ⁻¹
Hazard Index	0.07	

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For each congener/compound, enter the site-specific representative soil concentration in the respective grey box. The Hazard Index is the ratio of the total soil exposure to the oral TDSI.

Substance	Soil Concentration		Exposure Factor		TEF		Average Daily Exposure	Contribution to ADE
	ng kg ⁻¹ DW		pg kg ⁻¹ BW day ⁻¹ per ng kg ⁻¹ DW soil		-		pg WHO-TEQ kg ⁻¹ BW day ⁻¹	%
2,3,7,8-TCDD	1.79E+00	x	4.75E-04	x	1	=	8.51E-04	3.1
1,2,3,7,8-PeCDD	6.08E+00	x	4.75E-04	x	1	=	2.89E-03	10.7
1,2,3,4,7,8-HxCDD	8.36E+00	x	4.75E-04	x	0.1	=	3.97E-04	1.5
1,2,3,6,7,8-HxCDD	3.53E+01	x	4.75E-04	x	0.1	=	1.68E-03	6.2
1,2,3,7,8,9-HxCDD	2.60E+01	x	4.75E-04	x	0.1	=	1.24E-03	4.6
1,2,3,4,6,7,8-HpCDD	2.08E+03	x	4.75E-04	x	0.01	=	9.89E-03	36.5
OCDD	1.10E+04	x	4.75E-04	x	0.0003	=	1.57E-03	5.8
2,3,7,8-TCDF	1.06E+01	x	4.75E-04	x	0.1	=	5.04E-04	1.9
1,2,3,7,8-PeCDF	7.12E+00	x	4.75E-04	x	0.03	=	1.02E-04	0.4
2,3,4,7,8-PeCDF	1.23E+01	x	4.75E-04	x	0.3	=	1.75E-03	6.5
1,2,3,4,7,8-HxCDF	1.72E+01	x	4.75E-04	x	0.1	=	8.18E-04	3.0
1,2,3,7,8,9-HxCDF	1.62E+01	x	4.75E-04	x	0.1	=	7.70E-04	2.8
1,2,3,6,7,8-HxCDF	1.47E+01	x	4.75E-04	x	0.1	=	6.99E-04	2.6
2,3,4,6,7,8-HxCDF	1.62E+01	x	4.75E-04	x	0.1	=	7.70E-04	2.8
1,2,3,4,6,7,8-HpCDF	2.52E+02	x	4.75E-04	x	0.01	=	1.20E-03	4.4
1,2,3,4,7,8,9-HpCDF	9.92E+00	x	4.75E-04	x	0.01	=	4.71E-05	0.2
OCDF	1.27E+02	x	4.75E-04	x	0.0003	=	1.81E-05	0.1
PCB-77	6.19E+02	x	5.57E-04	x	0.0001	=	3.45E-05	0.1
PCB-81	2.40E+01	x	5.57E-04	x	0.0003	=	4.01E-06	0.0
PCB-126	2.76E+01	x	5.57E-04	x	0.1	=	1.54E-03	5.7
PCB-169	5.35E+00	x	5.57E-04	x	0.03	=	8.94E-05	0.3
PCB-105	3.29E+03	x	5.57E-04	x	0.00003	=	5.50E-05	0.2
PCB-114	1.89E+02	x	5.57E-04	x	0.00003	=	3.16E-06	0.0
PCB-118	9.00E+03	x	5.57E-04	x	0.00003	=	1.50E-04	0.6
PCB-123	2.11E+02	x	5.57E-04	x	0.00003	=	3.53E-06	0.0
PCB-156	1.15E+03	x	5.57E-04	x	0.00003	=	1.92E-05	0.1
PCB-157	2.23E+02	x	5.57E-04	x	0.00003	=	3.73E-06	0.0
PCB-167	4.37E+02	x	5.57E-04	x	0.00003	=	7.30E-06	0.0
PCB-189	8.76E+01	x	5.57E-04	x	0.00003	=	1.46E-06	0.0

Total WHO-TEQ ADE	2.71E-02	pg WHO-TEQ kg ⁻¹ BW day ⁻¹
TDSI	1.30E+00	pg WHO-TEQ kg ⁻¹ BW day ⁻¹
Hazard Index	0.02	

PCDDs, PCDFs and dioxin-like compounds worksheet for a commercial land use scenario

This worksheet should be used only in conjunction with *Soil Guideline Values for dioxins, furans and dioxin-like PCBs in soil, Science Report SC050021 / Dioxins SGV*

For each congener/compound, enter the site-specific representative soil concentration in the respective grey box. The Hazard Index is the ratio of the total soil exposure to the oral TDSI.

Substance	Soil Concentration		Exposure Factor		TEF		Average Daily Exposure	Contribution to ADE
	ng kg ⁻¹ DW		pg kg ⁻¹ BW day ⁻¹ per ng kg ⁻¹ DW soil		-		pg WHO-TEQ kg ⁻¹ BW day ⁻¹	%
2,3,7,8-TCDD	1.19E+00	x	4.75E-04	x	1	=	5.66E-04	5.9
1,2,3,7,8-PeCDD	1.82E+00	x	4.75E-04	x	1	=	8.65E-04	9.0
1,2,3,4,7,8-HxCDD	1.73E+00	x	4.75E-04	x	0.1	=	8.22E-05	0.9
1,2,3,6,7,8-HxCDD	2.06E+01	x	4.75E-04	x	0.1	=	9.79E-04	10.2
1,2,3,7,8,9-HxCDD	1.17E+01	x	4.75E-04	x	0.1	=	5.56E-04	5.8
1,2,3,4,6,7,8-HpCDD	1.52E+02	x	4.75E-04	x	0.01	=	7.22E-04	7.5
OCDD	1.15E+03	x	4.75E-04	x	0.0003	=	1.64E-04	1.7
2,3,7,8-TCDF	1.19E+00	x	4.75E-04	x	0.1	=	5.66E-05	0.6
1,2,3,7,8-PeCDF	1.79E+00	x	4.75E-04	x	0.03	=	2.55E-05	0.3
2,3,4,7,8-PeCDF	1.74E+00	x	4.75E-04	x	0.3	=	2.48E-04	2.6
1,2,3,4,7,8-HxCDF	3.55E+00	x	4.75E-04	x	0.1	=	1.69E-04	1.8
1,2,3,7,8,9-HxCDF	2.58E-01	x	4.75E-04	x	0.1	=	1.23E-05	0.1
1,2,3,6,7,8-HxCDF	4.52E+01	x	4.75E-04	x	0.1	=	2.15E-03	22.4
2,3,4,6,7,8-HxCDF	3.41E+01	x	4.75E-04	x	0.1	=	1.62E-03	16.9
1,2,3,4,6,7,8-HpCDF	4.52E+01	x	4.75E-04	x	0.01	=	2.15E-04	2.2
1,2,3,4,7,8,9-HpCDF	4.76E+00	x	4.75E-04	x	0.01	=	2.26E-05	0.2
OCDF	4.37E+01	x	4.75E-04	x	0.0003	=	6.23E-06	0.1
PCB-77	4.99E+02	x	5.57E-04	x	0.0001	=	2.78E-05	0.3
PCB-81	1.65E+01	x	5.57E-04	x	0.0003	=	2.76E-06	0.0
PCB-126	1.76E+01	x	5.57E-04	x	0.1	=	9.80E-04	10.2
PCB-169	1.53E+00	x	5.57E-04	x	0.03	=	2.56E-05	0.3
PCB-105	1.20E+03	x	5.57E-04	x	0.00003	=	2.01E-05	0.2
PCB-114	7.56E+01	x	5.57E-04	x	0.00003	=	1.26E-06	0.0
PCB-118	2.84E+03	x	5.57E-04	x	0.00003	=	4.75E-05	0.5
PCB-123	8.54E+01	x	5.57E-04	x	0.00003	=	1.43E-06	0.0
PCB-156	5.49E+02	x	5.57E-04	x	0.00003	=	9.17E-06	0.1
PCB-157	8.60E+01	x	5.57E-04	x	0.00003	=	1.44E-06	0.0
PCB-167	6.25E+01	x	5.57E-04	x	0.00003	=	1.04E-06	0.0
PCB-189	6.25E+01	x	5.57E-04	x	0.00003	=	1.04E-06	0.0

Total WHO-TEQ ADE	9.58E-03	pg WHO-TEQ kg ⁻¹ BW day ⁻¹
TDSI	1.30E+00	pg WHO-TEQ kg ⁻¹ BW day ⁻¹
Hazard Index	0.01	

PCDDs, PCDFs and dioxin-like compounds worksheet for a commercial land use scenario

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For each congener/compound, enter the site-specific representative soil concentration in the respective grey box. The Hazard Index is the ratio of the total soil exposure to the oral TDSI.

Substance	Soil Concentration		Exposure Factor		TEF	Average Daily Exposure	Contribution to ADE
	ng kg ⁻¹ DW		pg kg ⁻¹ BW day ⁻¹ per ng kg ⁻¹ DW soil		-		
2,3,7,8-TCDD	0.00E+00	x	4.75E-04	x	1	=	#VALUE!
1,2,3,7,8-PeCDD	6.06E-01	x	4.75E-04	x	1	=	2.88E-04
1,2,3,4,7,8-HxCDD	4.24E-01	x	4.75E-04	x	0.1	=	2.02E-05
1,2,3,6,7,8-HxCDD	1.94E+00	x	4.75E-04	x	0.1	=	9.22E-05
1,2,3,7,8,9-HxCDD	1.19E+00	x	4.75E-04	x	0.1	=	5.66E-05
1,2,3,4,6,7,8-HpCDD	2.63E+01	x	4.75E-04	x	0.01	=	1.25E-04
OCDD	2.88E+02	x	4.75E-04	x	0.0003	=	4.11E-05
2,3,7,8-TCDF	1.09E+00	x	4.75E-04	x	0.1	=	5.18E-05
1,2,3,7,8-PeCDF	1.04E+00	x	4.75E-04	x	0.03	=	1.48E-05
2,3,4,7,8-PeCDF	1.40E+00	x	4.75E-04	x	0.3	=	2.00E-04
1,2,3,4,7,8-HxCDF	1.40E+00	x	4.75E-04	x	0.1	=	6.65E-05
1,2,3,7,8,9-HxCDF	1.02E-01	x	4.75E-04	x	0.1	=	4.85E-06
1,2,3,6,7,8-HxCDF	1.04E+01	x	4.75E-04	x	0.1	=	4.94E-04
2,3,4,6,7,8-HxCDF	1.44E+00	x	4.75E-04	x	0.1	=	6.84E-05
1,2,3,4,6,7,8-HpCDF	1.04E+01	x	4.75E-04	x	0.01	=	4.94E-05
1,2,3,4,7,8,9-HpCDF	6.44E-01	x	4.75E-04	x	0.01	=	3.06E-06
OCDF	1.30E+01	x	4.75E-04	x	0.0003	=	1.85E-06
PCB-77	5.37E+01	x	5.57E-04	x	0.0001	=	2.99E-06
PCB-81	1.48E+00	x	5.57E-04	x	0.0003	=	2.47E-07
PCB-126	2.65E+00	x	5.57E-04	x	0.1	=	1.48E-04
PCB-169	5.97E-01	x	5.57E-04	x	0.03	=	9.98E-06
PCB-105	1.12E+02	x	5.57E-04	x	0.00003	=	1.87E-06
PCB-114	6.02E+00	x	5.57E-04	x	0.00003	=	1.01E-07
PCB-118	2.43E+02	x	5.57E-04	x	0.00003	=	4.06E-06
PCB-123	5.24E+00	x	5.57E-04	x	0.00003	=	8.76E-08
PCB-156	5.01E+01	x	5.57E-04	x	0.00003	=	8.37E-07
PCB-157	9.23E+00	x	5.57E-04	x	0.00003	=	1.54E-07
PCB-167	2.16E+01	x	5.57E-04	x	0.00003	=	3.61E-07
PCB-189	5.97E-01	x	5.57E-04	x	0.00003	=	9.98E-09

Total WHO-TEQ ADE	1.75E-03	pg WHO-TEQ kg ⁻¹ BW day ⁻¹
TDSI	1.30E+00	pg WHO-TEQ kg ⁻¹ BW day ⁻¹
Hazard Index	0.00	

PCDDs, PCDFs and dioxin-like compounds worksheet for a commercial land use scenario

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For each congener/compound, enter the site-specific representative soil concentration in the respective grey box. The Hazard Index is the ratio of the total soil exposure to the oral TDSI.

Substance	Soil Concentration		Exposure Factor		TEF	Average Daily Exposure	Contribution to ADE
	ng kg ⁻¹ DW		pg kg ⁻¹ BW day ⁻¹ per ng kg ⁻¹ DW soil		-		
2,3,7,8-TCDD	0.00E+00	x	4.75E-04	x	1	=	#VALUE!
1,2,3,7,8-PeCDD	6.35E-01	x	4.75E-04	x	1	=	3.02E-04
1,2,3,4,7,8-HxCDD	4.14E-01	x	4.75E-04	x	0.1	=	1.97E-05
1,2,3,6,7,8-HxCDD	4.57E+00	x	4.75E-04	x	0.1	=	2.17E-04
1,2,3,7,8,9-HxCDD	2.39E+00	x	4.75E-04	x	0.1	=	1.14E-04
1,2,3,4,6,7,8-HpCDD	4.35E+01	x	4.75E-04	x	0.01	=	2.07E-04
OCDD	2.81E+02	x	4.75E-04	x	0.0003	=	4.01E-05
2,3,7,8-TCDF	2.12E+00	x	4.75E-04	x	0.1	=	1.01E-04
1,2,3,7,8-PeCDF	1.61E+00	x	4.75E-04	x	0.03	=	2.30E-05
2,3,4,7,8-PeCDF	3.30E+00	x	4.75E-04	x	0.3	=	4.71E-04
1,2,3,4,7,8-HxCDF	2.73E+00	x	4.75E-04	x	0.1	=	1.30E-04
1,2,3,7,8,9-HxCDF	1.59E-01	x	4.75E-04	x	0.1	=	7.56E-06
1,2,3,6,7,8-HxCDF	2.26E+01	x	4.75E-04	x	0.1	=	1.07E-03
2,3,4,6,7,8-HxCDF	2.68E+00	x	4.75E-04	x	0.1	=	1.27E-04
1,2,3,4,6,7,8-HpCDF	2.26E+01	x	4.75E-04	x	0.01	=	1.07E-04
1,2,3,4,7,8,9-HpCDF	1.47E+00	x	4.75E-04	x	0.01	=	6.99E-06
OCDF	2.21E+01	x	4.75E-04	x	0.0003	=	3.15E-06
PCB-77	3.13E+02	x	5.57E-04	x	0.0001	=	1.74E-05
PCB-81	1.06E+01	x	5.57E-04	x	0.0003	=	1.77E-06
PCB-126	8.70E+00	x	5.57E-04	x	0.1	=	4.85E-04
PCB-169	2.12E+00	x	5.57E-04	x	0.03	=	3.54E-05
PCB-105	6.23E+02	x	5.57E-04	x	0.00003	=	1.04E-05
PCB-114	3.89E+01	x	5.57E-04	x	0.00003	=	6.50E-07
PCB-118	1.37E+03	x	5.57E-04	x	0.00003	=	2.29E-05
PCB-123	4.23E+01	x	5.57E-04	x	0.00003	=	7.07E-07
PCB-156	2.00E+02	x	5.57E-04	x	0.00003	=	3.34E-06
PCB-157	3.46E+01	x	5.57E-04	x	0.00003	=	5.78E-07
PCB-167	8.11E+01	x	5.57E-04	x	0.00003	=	1.36E-06
PCB-189	2.92E+01	x	5.57E-04	x	0.00003	=	4.88E-07

Total WHO-TEQ ADE	3.53E-03	pg WHO-TEQ kg ⁻¹ BW day ⁻¹
TDSI	1.30E+00	pg WHO-TEQ kg ⁻¹ BW day ⁻¹
Hazard Index	0.00	

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For each congener/compound, enter the site-specific representative soil concentration in the respective grey box. The Hazard Index is the ratio of the total soil exposure to the oral TDSI.

Substance	Soil Concentration		Exposure Factor		TEF		Average Daily Exposure	Contribution to ADE
	ng kg ⁻¹ DW		pg kg ⁻¹ BW day ⁻¹ per ng kg ⁻¹ DW soil		-		pg WHO-TEQ kg ⁻¹ BW day ⁻¹	%
2,3,7,8-TCDD	0.00E+00	x	4.75E-04	x	1	=		#VALUE!
1,2,3,7,8-PeCDD	9.93E-01	x	4.75E-04	x	1	=	4.72E-04	9.2
1,2,3,4,7,8-HxCDD	1.17E+00	x	4.75E-04	x	0.1	=	5.56E-05	1.1
1,2,3,6,7,8-HxCDD	3.35E+00	x	4.75E-04	x	0.1	=	1.59E-04	3.1
1,2,3,7,8,9-HxCDD	2.01E+00	x	4.75E-04	x	0.1	=	9.55E-05	1.9
1,2,3,4,6,7,8-HpCDD	3.70E+01	x	4.75E-04	x	0.01	=	1.76E-04	3.4
OCDD	2.32E+02	x	4.75E-04	x	0.0003	=	3.31E-05	0.6
2,3,7,8-TCDF	2.39E+00	x	4.75E-04	x	0.1	=	1.14E-04	2.2
1,2,3,7,8-PeCDF	2.11E+00	x	4.75E-04	x	0.03	=	3.01E-05	0.6
2,3,4,7,8-PeCDF	3.62E+00	x	4.75E-04	x	0.3	=	5.16E-04	10.1
1,2,3,4,7,8-HxCDF	5.60E+00	x	4.75E-04	x	0.1	=	2.66E-04	5.2
1,2,3,7,8,9-HxCDF	0.00E+00	x	4.75E-04	x	0.1	=		#VALUE!
1,2,3,6,7,8-HxCDF	5.38E+00	x	4.75E-04	x	0.1	=	2.56E-04	5.0
2,3,4,6,7,8-HxCDF	8.10E+00	x	4.75E-04	x	0.1	=	3.85E-04	7.5
1,2,3,4,6,7,8-HpCDF	4.94E+02	x	4.75E-04	x	0.01	=	2.35E-03	45.8
1,2,3,4,7,8,9-HpCDF	5.22E+00	x	4.75E-04	x	0.01	=	2.48E-05	0.5
OCDF	8.25E+02	x	4.75E-04	x	0.0003	=	1.18E-04	2.3
PCB-77	2.88E+00	x	5.57E-04	x	0.0001	=	1.60E-07	0.0
PCB-81	0.00E+00	x	5.57E-04	x	0.0003	=		#VALUE!
PCB-126	1.20E+00	x	5.57E-04	x	0.1	=	6.68E-05	1.3
PCB-169	7.06E-01	x	5.57E-04	x	0.03	=	1.18E-05	0.2
PCB-105	4.03E+00	x	5.57E-04	x	0.00003	=	6.74E-08	0.0
PCB-114	0.00E+00	x	5.57E-04	x	0.00003	=		#VALUE!
PCB-118	1.01E+01	x	5.57E-04	x	0.00003	=	1.69E-07	0.0
PCB-123	8.56E-01	x	5.57E-04	x	0.00003	=	1.43E-08	0.0
PCB-156	5.57E+00	x	5.57E-04	x	0.00003	=	9.31E-08	0.0
PCB-157	4.29E+00	x	5.57E-04	x	0.00003	=	7.17E-08	0.0
PCB-167	0.00E+00	x	5.57E-04	x	0.00003	=		#VALUE!
PCB-189	1.48E+00	x	5.57E-04	x	0.00003	=	2.47E-08	0.0

Total WHO-TEQ ADE	5.13E-03	pg WHO-TEQ kg ⁻¹ BW day ⁻¹
TDSI	1.30E+00	pg WHO-TEQ kg ⁻¹ BW day ⁻¹
Hazard Index	0.00	

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For each congener/compound, enter the site-specific representative soil concentration in the respective grey box. The Hazard Index is the ratio of the total soil exposure to the oral TDSI.

Substance	Soil Concentration		Exposure Factor		TEF		Average Daily Exposure	Contribution to ADE
	ng kg ⁻¹ DW		pg kg ⁻¹ BW day ⁻¹ per ng kg ⁻¹ DW soil		-		pg WHO-TEQ kg ⁻¹ BW day ⁻¹	%
2,3,7,8-TCDD	4.79E-01	x	4.75E-04	x	1	=	2.28E-04	1.2
1,2,3,7,8-PeCDD	2.28E+00	x	4.75E-04	x	1	=	1.08E-03	5.9
1,2,3,4,7,8-HxCDD	2.24E+00	x	4.75E-04	x	0.1	=	1.06E-04	0.6
1,2,3,6,7,8-HxCDD	8.40E+00	x	4.75E-04	x	0.1	=	3.99E-04	2.2
1,2,3,7,8,9-HxCDD	5.41E+00	x	4.75E-04	x	0.1	=	2.57E-04	1.4
1,2,3,4,6,7,8-HpCDD	2.39E+02	x	4.75E-04	x	0.01	=	1.14E-03	6.1
OCDD	3.21E+03	x	4.75E-04	x	0.0003	=	4.58E-04	2.5
2,3,7,8-TCDF	1.05E+01	x	4.75E-04	x	0.1	=	4.99E-04	2.7
1,2,3,7,8-PeCDF	7.34E+00	x	4.75E-04	x	0.03	=	1.05E-04	0.6
2,3,4,7,8-PeCDF	1.32E+01	x	4.75E-04	x	0.3	=	1.88E-03	10.2
1,2,3,4,7,8-HxCDF	3.99E+01	x	4.75E-04	x	0.1	=	1.90E-03	10.3
1,2,3,7,8,9-HxCDF	1.04E+00	x	4.75E-04	x	0.1	=	4.94E-05	0.3
1,2,3,6,7,8-HxCDF	1.49E+01	x	4.75E-04	x	0.1	=	7.08E-04	3.8
2,3,4,6,7,8-HxCDF	1.54E+01	x	4.75E-04	x	0.1	=	7.32E-04	4.0
1,2,3,4,6,7,8-HpCDF	2.29E+02	x	4.75E-04	x	0.01	=	1.09E-03	5.9
1,2,3,4,7,8,9-HpCDF	2.81E+01	x	4.75E-04	x	0.01	=	1.34E-04	0.7
OCDF	3.15E+02	x	4.75E-04	x	0.0003	=	4.49E-05	0.2
PCB-77	1.04E+04	x	5.57E-04	x	0.0001	=	5.79E-04	3.1
PCB-81	2.98E+02	x	5.57E-04	x	0.0003	=	4.98E-05	0.3
PCB-126	8.27E+01	x	5.57E-04	x	0.1	=	4.61E-03	24.9
PCB-169	3.56E+00	x	5.57E-04	x	0.03	=	5.95E-05	0.3
PCB-105	8.94E+03	x	5.57E-04	x	0.00003	=	1.49E-04	0.8
PCB-114	6.38E+02	x	5.57E-04	x	0.00003	=	1.07E-05	0.1
PCB-118	7.43E+04	x	5.57E-04	x	0.00003	=	1.24E-03	6.7
PCB-123	3.89E+03	x	5.57E-04	x	0.00003	=	6.50E-05	0.4
PCB-156	2.96E+04	x	5.57E-04	x	0.00003	=	4.95E-04	2.7
PCB-157	1.30E+03	x	5.57E-04	x	0.00003	=	2.17E-05	0.1
PCB-167	1.14E+04	x	5.57E-04	x	0.00003	=	1.91E-04	1.0
PCB-189	1.25E+04	x	5.57E-04	x	0.00003	=	2.09E-04	1.1

Total WHO-TEQ ADE	1.85E-02	pg WHO-TEQ kg ⁻¹ BW day ⁻¹
TDSI	1.30E+00	pg WHO-TEQ kg ⁻¹ BW day ⁻¹
Hazard Index	0.01	

PCDDs, PCDFs and dioxin-like compounds worksheet for a commercial land use scenario

This worksheet should be used only in conjunction with *Soil Guideline Values for dioxins, furans and dioxin-like PCBs in soil, Science Report SC050021 / Dioxins SGV*

For each congener/compound, enter the site-specific representative soil concentration in the respective grey box. The Hazard Index is the ratio of the total soil exposure to the oral TDSI.

Substance	Soil Concentration	Exposure Factor		TEF	Average Daily Exposure	Contribution to ADE
	ng kg ⁻¹ DW		pg kg ⁻¹ BW day ⁻¹ per ng kg ⁻¹ DW soil			
2,3,7,8-TCDD	3.50E-01	x	4.75E-04	x	1.66E-04	6.0
1,2,3,7,8-PeCDD	8.80E-01	x	4.75E-04	x	4.18E-04	15.0
1,2,3,4,7,8-HxCDD	1.90E+00	x	4.75E-04	x	9.03E-05	3.2
1,2,3,6,7,8-HxCDD	5.00E+00	x	4.75E-04	x	2.38E-04	8.5
1,2,3,7,8,9-HxCDD	1.90E+00	x	4.75E-04	x	9.03E-05	3.2
1,2,3,4,6,7,8-HpCDD	3.80E+01	x	4.75E-04	x	1.81E-04	6.5
OCDD	1.60E+02	x	4.75E-04	x	2.28E-05	0.8
2,3,7,8-TCDF	3.00E+00	x	4.75E-04	x	1.43E-04	5.1
1,2,3,7,8-PeCDF	2.30E+00	x	4.75E-04	x	3.28E-05	1.2
2,3,4,7,8-PeCDF	2.30E+00	x	4.75E-04	x	3.28E-04	11.8
1,2,3,4,7,8-HxCDF	2.90E+00	x	4.75E-04	x	1.38E-04	5.0
1,2,3,7,8,9-HxCDF	1.50E+00	x	4.75E-04	x	7.13E-05	2.6
1,2,3,6,7,8-HxCDF	2.90E+00	x	4.75E-04	x	1.38E-04	5.0
2,3,4,6,7,8-HxCDF	2.90E+00	x	4.75E-04	x	1.38E-04	5.0
1,2,3,4,6,7,8-HpCDF	1.60E+01	x	4.75E-04	x	7.60E-05	2.7
1,2,3,4,7,8,9-HpCDF	8.10E+00	x	4.75E-04	x	3.85E-05	1.4
OCDF	1.60E+01	x	4.75E-04	x	2.28E-06	0.1
PCB-77	3.30E+02	x	5.57E-04	x	1.84E-05	0.7
PCB-81	2.90E+01	x	5.57E-04	x	4.85E-06	0.2
PCB-126	5.50E+00	x	5.57E-04	x	3.06E-04	11.0
PCB-169	4.80E+00	x	5.57E-04	x	8.02E-05	2.9
PCB-105	5.80E+02	x	5.57E-04	x	9.69E-06	0.3
PCB-114	6.20E+01	x	5.57E-04	x	1.04E-06	0.0
PCB-118	1.20E+03	x	5.57E-04	x	2.01E-05	0.7
PCB-123	2.40E+01	x	5.57E-04	x	4.01E-07	0.0
PCB-156	1.10E+03	x	5.57E-04	x	1.84E-05	0.7
PCB-157	9.90E+01	x	5.57E-04	x	1.65E-06	0.1
PCB-167	3.80E+02	x	5.57E-04	x	6.35E-06	0.2
PCB-189	2.30E+02	x	5.57E-04	x	3.84E-06	0.1

Total WHO-TEQ ADE	2.78E-03	pg WHO-TEQ kg ⁻¹ BW day ⁻¹
TDSI	1.30E+00	pg WHO-TEQ kg ⁻¹ BW day ⁻¹
Hazard Index	0.00	

PCDDs, PCDFs and dioxin-like compounds worksheet for a commercial land use scenario

This worksheet should be used only in conjunction with *Soil Guideline Values for dioxins, furans and dioxin-like PCBs in soil, Science Report SC050021 / Dioxins SGV*

For each congener/compound, enter the site-specific representative soil concentration in the respective grey box. The Hazard Index is the ratio of the total soil exposure to the oral TDSI.

Substance	Soil Concentration	Exposure Factor		TEF	Average Daily Exposure	Contribution to ADE
	ng kg ⁻¹ DW		pg kg ⁻¹ BW day ⁻¹ per ng kg ⁻¹ DW soil			
2,3,7,8-TCDD	1.10E+00	x	4.75E-04	x	1 = 5.23E-04	12.0
1,2,3,7,8-PeCDD	1.70E+00	x	4.75E-04	x	1 = 8.08E-04	18.6
1,2,3,4,7,8-HxCDD	1.70E+00	x	4.75E-04	x	0.1 = 8.08E-05	1.9
1,2,3,6,7,8-HxCDD	1.70E+00	x	4.75E-04	x	0.1 = 8.08E-05	1.9
1,2,3,7,8,9-HxCDD	1.70E+00	x	4.75E-04	x	0.1 = 8.08E-05	1.9
1,2,3,4,6,7,8-HpCDD	2.10E+02	x	4.75E-04	x	0.01 = 9.98E-04	22.9
OCDD	1.10E+03	x	4.75E-04	x	0.0003 = 1.57E-04	3.6
2,3,7,8-TCDF	3.00E+00	x	4.75E-04	x	0.1 = 1.43E-04	3.3
1,2,3,7,8-PeCDF	1.00E+00	x	4.75E-04	x	0.03 = 1.43E-05	0.3
2,3,4,7,8-PeCDF	1.00E+00	x	4.75E-04	x	0.3 = 1.43E-04	3.3
1,2,3,4,7,8-HxCDF	1.10E+00	x	4.75E-04	x	0.1 = 5.23E-05	1.2
1,2,3,7,8,9-HxCDF	1.10E+00	x	4.75E-04	x	0.1 = 5.23E-05	1.2
1,2,3,6,7,8-HxCDF	1.10E+00	x	4.75E-04	x	0.1 = 5.23E-05	1.2
2,3,4,6,7,8-HxCDF	1.10E+00	x	4.75E-04	x	0.1 = 5.23E-05	1.2
1,2,3,4,6,7,8-HpCDF	1.60E+01	x	4.75E-04	x	0.01 = 7.60E-05	1.7
1,2,3,4,7,8,9-HpCDF	1.60E+01	x	4.75E-04	x	0.01 = 7.60E-05	1.7
OCDF	1.20E+01	x	4.75E-04	x	0.0003 = 1.71E-06	0.0
PCB-77	7.40E+02	x	5.57E-04	x	0.0001 = 4.12E-05	0.9
PCB-81	8.40E+01	x	5.57E-04	x	0.0003 = 1.40E-05	0.3
PCB-126	1.10E+01	x	5.57E-04	x	0.1 = 6.13E-04	14.1
PCB-169	5.00E+00	x	5.57E-04	x	0.03 = 8.36E-05	1.9
PCB-105	3.10E+03	x	5.57E-04	x	0.00003 = 5.18E-05	1.2
PCB-114	1.40E+02	x	5.57E-04	x	0.00003 = 2.34E-06	0.1
PCB-118	7.70E+03	x	5.57E-04	x	0.00003 = 1.29E-04	3.0
PCB-123	1.40E+02	x	5.57E-04	x	0.00003 = 2.34E-06	0.1
PCB-156	8.20E+02	x	5.57E-04	x	0.00003 = 1.37E-05	0.3
PCB-157	1.60E+02	x	5.57E-04	x	0.00003 = 2.67E-06	0.1
PCB-167	3.10E+02	x	5.57E-04	x	0.00003 = 5.18E-06	0.1
PCB-189	6.50E+01	x	5.57E-04	x	0.00003 = 1.09E-06	0.0

Total WHO-TEQ ADE	4.35E-03	pg WHO-TEQ kg ⁻¹ BW day ⁻¹
TDSI	1.30E+00	pg WHO-TEQ kg ⁻¹ BW day ⁻¹
Hazard Index	0.00	

PCDDs, PCDFs and dioxin-like compounds worksheet for a commercial land use scenario

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For each congener/compound, enter the site-specific representative soil concentration in the respective grey box. The Hazard Index is the ratio of the total soil exposure to the oral TDSI.

Substance	Soil Concentration	Exposure Factor		TEF	Average Daily Exposure	Contribution to ADE
	ng kg ⁻¹ DW		pg kg ⁻¹ BW day ⁻¹ per ng kg ⁻¹ DW soil			
2,3,7,8-TCDD	1.20E+00	x	4.75E-04	x	1 = 5.70E-04	9.1
1,2,3,7,8-PeCDD	1.20E+00	x	4.75E-04	x	1 = 5.70E-04	9.1
1,2,3,4,7,8-HxCDD	1.40E+00	x	4.75E-04	x	0.1 = 6.65E-05	1.1
1,2,3,6,7,8-HxCDD	1.40E+00	x	4.75E-04	x	0.1 = 6.65E-05	1.1
1,2,3,7,8,9-HxCDD	1.40E+00	x	4.75E-04	x	0.1 = 6.65E-05	1.1
1,2,3,4,6,7,8-HpCDD	2.30E+00	x	4.75E-04	x	0.01 = 1.09E-05	0.2
OCDD	7.50E+01	x	4.75E-04	x	0.0003 = 1.07E-05	0.2
2,3,7,8-TCDF	1.30E+00	x	4.75E-04	x	0.1 = 6.18E-05	1.0
1,2,3,7,8-PeCDF	1.40E+00	x	4.75E-04	x	0.03 = 2.00E-05	0.3
2,3,4,7,8-PeCDF	1.40E+00	x	4.75E-04	x	0.3 = 2.00E-04	3.2
1,2,3,4,7,8-HxCDF	1.60E+00	x	4.75E-04	x	0.1 = 7.60E-05	1.2
1,2,3,7,8,9-HxCDF	1.60E+00	x	4.75E-04	x	0.1 = 7.60E-05	1.2
1,2,3,6,7,8-HxCDF	1.60E+00	x	4.75E-04	x	0.1 = 7.60E-05	1.2
2,3,4,6,7,8-HxCDF	1.60E+00	x	4.75E-04	x	0.1 = 7.60E-05	1.2
1,2,3,4,6,7,8-HpCDF	3.60E+00	x	4.75E-04	x	0.01 = 1.71E-05	0.3
1,2,3,4,7,8,9-HpCDF	3.60E+00	x	4.75E-04	x	0.01 = 1.71E-05	0.3
OCDF	5.00E+00	x	4.75E-04	x	0.0003 = 7.13E-07	0.0
PCB-77	1.20E+03	x	5.57E-04	x	0.0001 = 6.69E-05	1.1
PCB-81	6.40E+01	x	5.57E-04	x	0.0003 = 1.07E-05	0.2
PCB-126	2.80E+01	x	5.57E-04	x	0.1 = 1.56E-03	24.8
PCB-169	1.50E+02	x	5.57E-04	x	0.03 = 2.51E-03	39.8
PCB-105	2.30E+03	x	5.57E-04	x	0.00003 = 3.84E-05	0.6
PCB-114	1.30E+02	x	5.57E-04	x	0.00003 = 2.17E-06	0.0
PCB-118	6.10E+03	x	5.57E-04	x	0.00003 = 1.02E-04	1.6
PCB-123	8.50E+01	x	5.57E-04	x	0.00003 = 1.42E-06	0.0
PCB-156	6.80E+02	x	5.57E-04	x	0.00003 = 1.14E-05	0.2
PCB-157	9.90E+01	x	5.57E-04	x	0.00003 = 1.65E-06	0.0
PCB-167	1.00E+03	x	5.57E-04	x	0.00003 = 1.67E-05	0.3
PCB-189	6.20E+01	x	5.57E-04	x	0.00003 = 1.04E-06	0.0

Total WHO-TEQ ADE	6.30E-03	pg WHO-TEQ kg ⁻¹ BW day ⁻¹
TDSI	1.30E+00	pg WHO-TEQ kg ⁻¹ BW day ⁻¹
Hazard Index	0.00	

PCDDs, PCDFs and dioxin-like compounds worksheet for a commercial land use scenario

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For each congener/compound, enter the site-specific representative soil concentration in the respective grey box. The Hazard Index is the ratio of the total soil exposure to the oral TDSI.

Substance	Soil Concentration	Exposure Factor		TEF	Average Daily Exposure		Contribution to ADE	
	ng kg ⁻¹ DW		pg kg ⁻¹ BW day ⁻¹ per ng kg ⁻¹ DW soil			pg WHO-TEQ kg ⁻¹ BW day ⁻¹	%	
2,3,7,8-TCDD	9.80E-01	x	4.75E-04	x	1	=	4.66E-04	0.9
1,2,3,7,8-PeCDD	1.40E+00	x	4.75E-04	x	1	=	6.65E-04	1.3
1,2,3,4,7,8-HxCDD	1.70E+00	x	4.75E-04	x	0.1	=	8.08E-05	0.2
1,2,3,6,7,8-HxCDD	1.70E+00	x	4.75E-04	x	0.1	=	8.08E-05	0.2
1,2,3,7,8,9-HxCDD	3.50E+00	x	4.75E-04	x	0.1	=	1.66E-04	0.3
1,2,3,4,6,7,8-HpCDD	1.50E+01	x	4.75E-04	x	0.01	=	7.13E-05	0.1
OCDD	1.50E+02	x	4.75E-04	x	0.0003	=	2.14E-05	0.0
2,3,7,8-TCDF	4.60E+00	x	4.75E-04	x	0.1	=	2.19E-04	0.4
1,2,3,7,8-PeCDF	3.10E+00	x	4.75E-04	x	0.03	=	4.42E-05	0.1
2,3,4,7,8-PeCDF	5.40E+00	x	4.75E-04	x	0.3	=	7.70E-04	1.6
1,2,3,4,7,8-HxCDF	5.10E+00	x	4.75E-04	x	0.1	=	2.42E-04	0.5
1,2,3,7,8,9-HxCDF	1.30E+00	x	4.75E-04	x	0.1	=	6.18E-05	0.1
1,2,3,6,7,8-HxCDF	1.60E+01	x	4.75E-04	x	0.1	=	7.60E-04	1.5
2,3,4,6,7,8-HxCDF	3.20E+00	x	4.75E-04	x	0.1	=	1.52E-04	0.3
1,2,3,4,6,7,8-HpCDF	4.40E+01	x	4.75E-04	x	0.01	=	2.09E-04	0.4
1,2,3,4,7,8,9-HpCDF	2.70E+00	x	4.75E-04	x	0.01	=	1.28E-05	0.0
OCDF	2.90E+01	x	4.75E-04	x	0.0003	=	4.13E-06	0.0
PCB-77	7.00E+04	x	5.57E-04	x	0.0001	=	3.90E-03	7.9
PCB-81	6.10E+03	x	5.57E-04	x	0.0003	=	1.02E-03	2.1
PCB-126	4.00E+02	x	5.57E-04	x	0.1	=	2.23E-02	45.2
PCB-169	6.70E+02	x	5.57E-04	x	0.03	=	1.12E-02	22.7
PCB-105	1.20E+05	x	5.57E-04	x	0.00003	=	2.01E-03	4.1
PCB-114	1.10E+04	x	5.57E-04	x	0.00003	=	1.84E-04	0.4
PCB-118	2.50E+05	x	5.57E-04	x	0.00003	=	4.18E-03	8.5
PCB-123	7.20E+03	x	5.57E-04	x	0.00003	=	1.20E-04	0.2
PCB-156	1.00E+04	x	5.57E-04	x	0.00003	=	1.67E-04	0.3
PCB-157	2.10E+03	x	5.57E-04	x	0.00003	=	3.51E-05	0.1
PCB-167	1.30E+04	x	5.57E-04	x	0.00003	=	2.17E-04	0.4
PCB-189	1.10E+03	x	5.57E-04	x	0.00003	=	1.84E-05	0.0

Total WHO-TEQ ADE

4.94E-02

pg WHO-TEQ kg⁻¹ BW day⁻¹

TDSI

1.30E+00

pg WHO-TEQ kg⁻¹ BW day⁻¹

Hazard Index

0.04

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For each congener/compound, enter the site-specific representative soil concentration in the respective grey box. The Hazard Index is the ratio of the total soil exposure to the oral TDSI.

Substance	Soil Concentration	Exposure Factor		TEF	Average Daily Exposure	Contribution to ADE
	ng kg ⁻¹ DW		pg kg ⁻¹ BW day ⁻¹ per ng kg ⁻¹ DW soil			
2,3,7,8-TCDD	1.20E+00	x	4.75E-04	x	1 = 5.70E-04	6.7
1,2,3,7,8-PeCDD	4.10E+00	x	4.75E-04	x	1 = 1.95E-03	22.9
1,2,3,4,7,8-HxCDD	1.70E+00	x	4.75E-04	x	0.1 = 8.08E-05	1.0
1,2,3,6,7,8-HxCDD	5.20E+00	x	4.75E-04	x	0.1 = 2.47E-04	2.9
1,2,3,7,8,9-HxCDD	2.30E+00	x	4.75E-04	x	0.1 = 1.09E-04	1.3
1,2,3,4,6,7,8-HpCDD	2.20E+02	x	4.75E-04	x	0.01 = 1.05E-03	12.3
OCDD	1.50E+03	x	4.75E-04	x	0.0003 = 2.14E-04	2.5
2,3,7,8-TCDF	5.50E+00	x	4.75E-04	x	0.1 = 2.61E-04	3.1
1,2,3,7,8-PeCDF	4.20E+00	x	4.75E-04	x	0.03 = 5.99E-05	0.7
2,3,4,7,8-PeCDF	5.30E+00	x	4.75E-04	x	0.3 = 7.56E-04	8.9
1,2,3,4,7,8-HxCDF	1.20E+01	x	4.75E-04	x	0.1 = 5.70E-04	6.7
1,2,3,7,8,9-HxCDF	1.10E+00	x	4.75E-04	x	0.1 = 5.23E-05	0.6
1,2,3,6,7,8-HxCDF	1.10E+01	x	4.75E-04	x	0.1 = 5.23E-04	6.1
2,3,4,6,7,8-HxCDF	6.70E+00	x	4.75E-04	x	0.1 = 3.18E-04	3.7
1,2,3,4,6,7,8-HpCDF	2.20E+02	x	4.75E-04	x	0.01 = 1.05E-03	12.3
1,2,3,4,7,8,9-HpCDF	8.00E+00	x	4.75E-04	x	0.01 = 3.80E-05	0.4
OCDF	1.70E+02	x	4.75E-04	x	0.0003 = 2.42E-05	0.3
PCB-77	1.90E+02	x	5.57E-04	x	0.0001 = 1.06E-05	0.1
PCB-81	9.30E+00	x	5.57E-04	x	0.0003 = 1.55E-06	0.0
PCB-126	9.50E+00	x	5.57E-04	x	0.1 = 5.29E-04	6.2
PCB-169	2.30E+00	x	5.57E-04	x	0.03 = 3.84E-05	0.5
PCB-105	8.20E+02	x	5.57E-04	x	0.00003 = 1.37E-05	0.2
PCB-114	5.00E+01	x	5.57E-04	x	0.00003 = 8.36E-07	0.0
PCB-118	1.70E+03	x	5.57E-04	x	0.00003 = 2.84E-05	0.3
PCB-123	5.00E+01	x	5.57E-04	x	0.00003 = 8.36E-07	0.0
PCB-156	5.30E+02	x	5.57E-04	x	0.00003 = 8.86E-06	0.1
PCB-157	1.50E+02	x	5.57E-04	x	0.00003 = 2.51E-06	0.0
PCB-167	1.80E+02	x	5.57E-04	x	0.00003 = 3.01E-06	0.0
PCB-189	1.20E+02	x	5.57E-04	x	0.00003 = 2.01E-06	0.0

Total WHO-TEQ ADE	8.50E-03	pg WHO-TEQ kg ⁻¹ BW day ⁻¹
TDSI	1.30E+00	pg WHO-TEQ kg ⁻¹ BW day ⁻¹
Hazard Index	0.01	

PCDDs, PCDFs and dioxin-like compounds worksheet for a commercial land use scenario

This worksheet should be used only in conjunction with *Soil Guideline Values for dioxins, furans and dioxin-like PCBs in soil, Science Report SC050021 / Dioxins SGV*

For each congener/compound, enter the site-specific representative soil concentration in the respective grey box. The Hazard Index is the ratio of the total soil exposure to the oral TDSI.

Substance	Soil Concentration	Exposure Factor		TEF	Average Daily Exposure	Contribution to ADE
	ng kg ⁻¹ DW		pg kg ⁻¹ BW day ⁻¹ per ng kg ⁻¹ DW soil			
2,3,7,8-TCDD	8.00E-01	x	4.75E-04	x	1 = 3.80E-04	13.9
1,2,3,7,8-PeCDD	1.10E+00	x	4.75E-04	x	1 = 5.23E-04	19.1
1,2,3,4,7,8-HxCDD	1.70E+00	x	4.75E-04	x	0.1 = 8.08E-05	3.0
1,2,3,6,7,8-HxCDD	1.70E+00	x	4.75E-04	x	0.1 = 8.08E-05	3.0
1,2,3,7,8,9-HxCDD	1.70E+00	x	4.75E-04	x	0.1 = 8.08E-05	3.0
1,2,3,4,6,7,8-HpCDD	6.40E+01	x	4.75E-04	x	0.01 = 3.04E-04	11.1
OCDD	1.00E+03	x	4.75E-04	x	0.0003 = 1.43E-04	5.2
2,3,7,8-TCDF	2.20E+00	x	4.75E-04	x	0.1 = 1.05E-04	3.8
1,2,3,7,8-PeCDF	1.30E+00	x	4.75E-04	x	0.03 = 1.85E-05	0.7
2,3,4,7,8-PeCDF	1.30E+00	x	4.75E-04	x	0.3 = 1.85E-04	6.8
1,2,3,4,7,8-HxCDF	2.30E+00	x	4.75E-04	x	0.1 = 1.09E-04	4.0
1,2,3,7,8,9-HxCDF	2.30E+00	x	4.75E-04	x	0.1 = 1.09E-04	4.0
1,2,3,6,7,8-HxCDF	2.30E+00	x	4.75E-04	x	0.1 = 1.09E-04	4.0
2,3,4,6,7,8-HxCDF	2.30E+00	x	4.75E-04	x	0.1 = 1.09E-04	4.0
1,2,3,4,6,7,8-HpCDF	2.10E+01	x	4.75E-04	x	0.01 = 9.98E-05	3.7
1,2,3,4,7,8,9-HpCDF	1.10E+01	x	4.75E-04	x	0.01 = 5.23E-05	1.9
OCDF	5.50E+00	x	4.75E-04	x	0.0003 = 7.84E-07	0.0
PCB-77	1.20E+02	x	5.57E-04	x	0.0001 = 6.69E-06	0.2
PCB-81	6.10E+00	x	5.57E-04	x	0.0003 = 1.02E-06	0.0
PCB-126	3.60E+00	x	5.57E-04	x	0.1 = 2.01E-04	7.3
PCB-169	7.70E-01	x	5.57E-04	x	0.03 = 1.29E-05	0.5
PCB-105	3.20E+02	x	5.57E-04	x	0.00003 = 5.35E-06	0.2
PCB-114	2.70E+01	x	5.57E-04	x	0.00003 = 4.51E-07	0.0
PCB-118	7.00E+02	x	5.57E-04	x	0.00003 = 1.17E-05	0.4
PCB-123	5.50E+00	x	5.57E-04	x	0.00003 = 9.19E-08	0.0
PCB-156	1.20E+02	x	5.57E-04	x	0.00003 = 2.01E-06	0.1
PCB-157	2.50E+01	x	5.57E-04	x	0.00003 = 4.18E-07	0.0
PCB-167	4.70E+01	x	5.57E-04	x	0.00003 = 7.85E-07	0.0
PCB-189	2.10E+01	x	5.57E-04	x	0.00003 = 3.51E-07	0.0

Total WHO-TEQ ADE	2.73E-03	pg WHO-TEQ kg ⁻¹ BW day ⁻¹
TDSI	1.30E+00	pg WHO-TEQ kg ⁻¹ BW day ⁻¹
Hazard Index	0.00	

PCDDs, PCDFs and dioxin-like compounds worksheet for a commercial land use scenario

This worksheet should be used only in conjunction with *Soil Guideline Values for dioxins, furans and dioxin-like PCBs in soil, Science Report SC050021 / Dioxins SGV*

For each congener/compound, enter the site-specific representative soil concentration in the respective grey box. The Hazard Index is the ratio of the total soil exposure to the oral TDSI.

Substance	Soil Concentration	Exposure Factor		TEF	Average Daily Exposure	Contribution to ADE
	ng kg ⁻¹ DW		pg kg ⁻¹ BW day ⁻¹ per ng kg ⁻¹ DW soil			
2,3,7,8-TCDD	7.30E-01	x	4.75E-04	x	1 = 3.47E-04	5.1
1,2,3,7,8-PeCDD	1.10E+00	x	4.75E-04	x	1 = 5.23E-04	7.7
1,2,3,4,7,8-HxCDD	2.30E+00	x	4.75E-04	x	0.1 = 1.09E-04	1.6
1,2,3,6,7,8-HxCDD	2.30E+00	x	4.75E-04	x	0.1 = 1.09E-04	1.6
1,2,3,7,8,9-HxCDD	2.30E+00	x	4.75E-04	x	0.1 = 1.09E-04	1.6
1,2,3,4,6,7,8-HpCDD	6.70E+02	x	4.75E-04	x	0.01 = 3.18E-03	46.7
OCDD	9.30E+03	x	4.75E-04	x	0.0003 = 1.33E-03	19.5
2,3,7,8-TCDF	1.00E+00	x	4.75E-04	x	0.1 = 4.75E-05	0.7
1,2,3,7,8-PeCDF	1.00E+00	x	4.75E-04	x	0.03 = 1.43E-05	0.2
2,3,4,7,8-PeCDF	1.00E+00	x	4.75E-04	x	0.3 = 1.43E-04	2.1
1,2,3,4,7,8-HxCDF	1.40E+00	x	4.75E-04	x	0.1 = 6.65E-05	1.0
1,2,3,7,8,9-HxCDF	1.40E+00	x	4.75E-04	x	0.1 = 6.65E-05	1.0
1,2,3,6,7,8-HxCDF	1.40E+00	x	4.75E-04	x	0.1 = 6.65E-05	1.0
2,3,4,6,7,8-HxCDF	1.40E+00	x	4.75E-04	x	0.1 = 6.65E-05	1.0
1,2,3,4,6,7,8-HpCDF	5.40E+01	x	4.75E-04	x	0.01 = 2.57E-04	3.8
1,2,3,4,7,8,9-HpCDF	2.70E+01	x	4.75E-04	x	0.01 = 1.28E-04	1.9
OCDF	1.70E+02	x	4.75E-04	x	0.0003 = 2.42E-05	0.4
PCB-77	3.80E+02	x	5.57E-04	x	0.0001 = 2.12E-05	0.3
PCB-81	2.60E+01	x	5.57E-04	x	0.0003 = 4.35E-06	0.1
PCB-126	2.50E+00	x	5.57E-04	x	0.1 = 1.39E-04	2.0
PCB-169	1.70E+00	x	5.57E-04	x	0.03 = 2.84E-05	0.4
PCB-105	5.80E+02	x	5.57E-04	x	0.00003 = 9.69E-06	0.1
PCB-114	3.70E+01	x	5.57E-04	x	0.00003 = 6.18E-07	0.0
PCB-118	1.10E+03	x	5.57E-04	x	0.00003 = 1.84E-05	0.3
PCB-123	1.20E+01	x	5.57E-04	x	0.00003 = 2.01E-07	0.0
PCB-156	2.70E+02	x	5.57E-04	x	0.00003 = 4.51E-06	0.1
PCB-157	4.30E+01	x	5.57E-04	x	0.00003 = 7.19E-07	0.0
PCB-167	7.40E+01	x	5.57E-04	x	0.00003 = 1.24E-06	0.0
PCB-189	2.50E+01	x	5.57E-04	x	0.00003 = 4.18E-07	0.0

Total WHO-TEQ ADE	6.82E-03	pg WHO-TEQ kg ⁻¹ BW day ⁻¹
TDSI	1.30E+00	pg WHO-TEQ kg ⁻¹ BW day ⁻¹
Hazard Index	0.01	

PCDDs, PCDFs and dioxin-like compounds worksheet for a commercial land use scenario

This worksheet should be used only in conjunction with *Soil Guideline Values for dioxins, furans and dioxin-like PCBs in soil, Science Report SC050021 / Dioxins SGV*

For each congener/compound, enter the site-specific representative soil concentration in the respective grey box. The Hazard Index is the ratio of the total soil exposure to the oral TDSI.

Substance	Soil Concentration	Exposure Factor		TEF	Average Daily Exposure	Contribution to ADE
	ng kg ⁻¹ DW		pg kg ⁻¹ BW day ⁻¹ per ng kg ⁻¹ DW soil			
2,3,7,8-TCDD	1.30E+00	x	4.75E-04	x	1 = 6.18E-04	25.9
1,2,3,7,8-PeCDD	1.40E+00	x	4.75E-04	x	1 = 6.65E-04	27.8
1,2,3,4,7,8-HxCDD	1.40E+00	x	4.75E-04	x	0.1 = 6.65E-05	2.8
1,2,3,6,7,8-HxCDD	1.40E+00	x	4.75E-04	x	0.1 = 6.65E-05	2.8
1,2,3,7,8,9-HxCDD	1.40E+00	x	4.75E-04	x	0.1 = 6.65E-05	2.8
1,2,3,4,6,7,8-HpCDD	3.90E+00	x	4.75E-04	x	0.01 = 1.85E-05	0.8
OCDD	3.30E+02	x	4.75E-04	x	0.0003 = 4.71E-05	2.0
2,3,7,8-TCDF	1.30E+00	x	4.75E-04	x	0.1 = 6.18E-05	2.6
1,2,3,7,8-PeCDF	1.40E+00	x	4.75E-04	x	0.03 = 2.00E-05	0.8
2,3,4,7,8-PeCDF	1.40E+00	x	4.75E-04	x	0.3 = 2.00E-04	8.4
1,2,3,4,7,8-HxCDF	1.50E+00	x	4.75E-04	x	0.1 = 7.13E-05	3.0
1,2,3,7,8,9-HxCDF	1.50E+00	x	4.75E-04	x	0.1 = 7.13E-05	3.0
1,2,3,6,7,8-HxCDF	1.50E+00	x	4.75E-04	x	0.1 = 7.13E-05	3.0
2,3,4,6,7,8-HxCDF	1.50E+00	x	4.75E-04	x	0.1 = 7.13E-05	3.0
1,2,3,4,6,7,8-HpCDF	3.70E+00	x	4.75E-04	x	0.01 = 1.76E-05	0.7
1,2,3,4,7,8,9-HpCDF	3.70E+00	x	4.75E-04	x	0.01 = 1.76E-05	0.7
OCDF	1.20E+02	x	4.75E-04	x	0.0003 = 1.71E-05	0.7
PCB-77	2.00E+02	x	5.57E-04	x	0.0001 = 1.11E-05	0.5
PCB-81	1.40E+01	x	5.57E-04	x	0.0003 = 2.34E-06	0.1
PCB-126	2.00E+00	x	5.57E-04	x	0.1 = 1.11E-04	4.7
PCB-169	4.00E+00	x	5.57E-04	x	0.03 = 6.68E-05	2.8
PCB-105	4.90E+02	x	5.57E-04	x	0.00003 = 8.19E-06	0.3
PCB-114	4.70E+01	x	5.57E-04	x	0.00003 = 7.85E-07	0.0
PCB-118	1.00E+03	x	5.57E-04	x	0.00003 = 1.67E-05	0.7
PCB-123	4.20E+01	x	5.57E-04	x	0.00003 = 7.02E-07	0.0
PCB-156	2.00E+02	x	5.57E-04	x	0.00003 = 3.34E-06	0.1
PCB-157	3.10E+00	x	5.57E-04	x	0.00003 = 5.18E-08	0.0
PCB-167	7.10E+01	x	5.57E-04	x	0.00003 = 1.19E-06	0.0
PCB-189	5.80E+00	x	5.57E-04	x	0.00003 = 9.69E-08	0.0

Total WHO-TEQ ADE	2.39E-03	pg WHO-TEQ kg ⁻¹ BW day ⁻¹
TDSI	1.30E+00	pg WHO-TEQ kg ⁻¹ BW day ⁻¹
Hazard Index	0.00	

PCDDs, PCDFs and dioxin-like compounds worksheet for a commercial land use scenario

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For each congener/compound, enter the site-specific representative soil concentration in the respective grey box. The Hazard Index is the ratio of the total soil exposure to the oral TDSI.

Substance	Soil Concentration	Exposure Factor		TEF	Average Daily Exposure	Contribution to ADE
	ng kg ⁻¹ DW		pg kg ⁻¹ BW day ⁻¹ per ng kg ⁻¹ DW soil			
2,3,7,8-TCDD	2.60E-01	x	4.75E-04	x	1.24E-04	5.0
1,2,3,7,8-PeCDD	5.20E-01	x	4.75E-04	x	2.47E-04	10.1
1,2,3,4,7,8-HxCDD	5.10E-01	x	4.75E-04	x	2.42E-05	1.0
1,2,3,6,7,8-HxCDD	5.10E-01	x	4.75E-04	x	2.42E-05	1.0
1,2,3,7,8,9-HxCDD	5.10E-01	x	4.75E-04	x	2.42E-05	1.0
1,2,3,4,6,7,8-HpCDD	2.00E+02	x	4.75E-04	x	9.51E-04	38.8
OCDD	1.60E+03	x	4.75E-04	x	2.28E-04	9.3
2,3,7,8-TCDF	2.30E-01	x	4.75E-04	x	1.09E-05	0.4
1,2,3,7,8-PeCDF	3.30E-01	x	4.75E-04	x	4.71E-06	0.2
2,3,4,7,8-PeCDF	3.30E-01	x	4.75E-04	x	4.71E-05	1.9
1,2,3,4,7,8-HxCDF	4.70E-01	x	4.75E-04	x	2.23E-05	0.9
1,2,3,7,8,9-HxCDF	4.70E-01	x	4.75E-04	x	2.23E-05	0.9
1,2,3,6,7,8-HxCDF	4.70E-01	x	4.75E-04	x	2.23E-05	0.9
2,3,4,6,7,8-HxCDF	4.70E-01	x	4.75E-04	x	2.23E-05	0.9
1,2,3,4,6,7,8-HpCDF	3.40E+01	x	4.75E-04	x	1.62E-04	6.6
1,2,3,4,7,8,9-HpCDF	1.70E+01	x	4.75E-04	x	8.08E-05	3.3
OCDF	4.80E+01	x	4.75E-04	x	6.84E-06	0.3
PCB-77	8.40E+02	x	5.57E-04	x	4.68E-05	1.9
PCB-81	7.20E+01	x	5.57E-04	x	1.20E-05	0.5
PCB-126	3.40E+00	x	5.57E-04	x	1.89E-04	7.7
PCB-169	5.10E+00	x	5.57E-04	x	8.52E-05	3.5
PCB-105	1.70E+03	x	5.57E-04	x	2.84E-05	1.2
PCB-114	1.00E+02	x	5.57E-04	x	1.67E-06	0.1
PCB-118	3.00E+03	x	5.57E-04	x	5.01E-05	2.0
PCB-123	8.40E+01	x	5.57E-04	x	1.40E-06	0.1
PCB-156	2.80E+02	x	5.57E-04	x	4.68E-06	0.2
PCB-157	6.20E+01	x	5.57E-04	x	1.04E-06	0.0
PCB-167	1.50E+02	x	5.57E-04	x	2.51E-06	0.1
PCB-189	3.20E+01	x	5.57E-04	x	5.35E-07	0.0

Total WHO-TEQ ADE	2.45E-03	pg WHO-TEQ kg ⁻¹ BW day ⁻¹
TDSI	1.30E+00	pg WHO-TEQ kg ⁻¹ BW day ⁻¹
Hazard Index	0.00	

PCDDs, PCDFs and dioxin-like compounds worksheet for a commercial land use scenario

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For each congener/compound, enter the site-specific representative soil concentration in the respective grey box. The Hazard Index is the ratio of the total soil exposure to the oral TDSI.

Substance	Soil Concentration		Exposure Factor		TEF		Average Daily Exposure	Contribution to ADE
	ng kg ⁻¹ DW		pg kg ⁻¹ BW day ⁻¹ per ng kg ⁻¹ DW soil		-		pg WHO-TEQ kg ⁻¹ BW day ⁻¹	%
2,3,7,8-TCDD	1.10E+00	x	4.75E-04	x	1	=	5.23E-04	22.1
1,2,3,7,8-PeCDD	1.40E+00	x	4.75E-04	x	1	=	6.65E-04	28.1
1,2,3,4,7,8-HxCDD	1.70E+00	x	4.75E-04	x	0.1	=	8.08E-05	3.4
1,2,3,6,7,8-HxCDD	1.70E+00	x	4.75E-04	x	0.1	=	8.08E-05	3.4
1,2,3,7,8,9-HxCDD	1.70E+00	x	4.75E-04	x	0.1	=	8.08E-05	3.4
1,2,3,4,6,7,8-HpCDD	1.10E+01	x	4.75E-04	x	0.01	=	5.23E-05	2.2
OCDD	1.30E+02	x	4.75E-04	x	0.0003	=	1.85E-05	0.8
2,3,7,8-TCDF	8.90E-01	x	4.75E-04	x	0.1	=	4.23E-05	1.8
1,2,3,7,8-PeCDF	9.60E-01	x	4.75E-04	x	0.03	=	1.37E-05	0.6
2,3,4,7,8-PeCDF	9.60E-01	x	4.75E-04	x	0.3	=	1.37E-04	5.8
1,2,3,4,7,8-HxCDF	1.60E+00	x	4.75E-04	x	0.1	=	7.60E-05	3.2
1,2,3,7,8,9-HxCDF	1.60E+00	x	4.75E-04	x	0.1	=	7.60E-05	3.2
1,2,3,6,7,8-HxCDF	1.60E+00	x	4.75E-04	x	0.1	=	7.60E-05	3.2
2,3,4,6,7,8-HxCDF	1.60E+00	x	4.75E-04	x	0.1	=	7.60E-05	3.2
1,2,3,4,6,7,8-HpCDF	9.10E+00	x	4.75E-04	x	0.01	=	4.33E-05	1.8
1,2,3,4,7,8,9-HpCDF	9.10E+00	x	4.75E-04	x	0.01	=	4.33E-05	1.8
OCDF	2.30E+01	x	4.75E-04	x	0.0003	=	3.28E-06	0.1
PCB-77	3.00E+00	x	5.57E-04	x	0.0001	=	1.67E-07	0.0
PCB-81	3.30E+00	x	5.57E-04	x	0.0003	=	5.52E-07	0.0
PCB-126	3.60E+00	x	5.57E-04	x	0.1	=	2.01E-04	8.5
PCB-169	3.50E+00	x	5.57E-04	x	0.03	=	5.85E-05	2.5
PCB-105	3.30E+02	x	5.57E-04	x	0.00003	=	5.52E-06	0.2
PCB-114	1.10E+01	x	5.57E-04	x	0.00003	=	1.84E-07	0.0
PCB-118	6.90E+02	x	5.57E-04	x	0.00003	=	1.15E-05	0.5
PCB-123	1.20E+01	x	5.57E-04	x	0.00003	=	2.01E-07	0.0
PCB-156	1.00E+02	x	5.57E-04	x	0.00003	=	1.67E-06	0.1
PCB-157	4.20E+01	x	5.57E-04	x	0.00003	=	7.02E-07	0.0
PCB-167	4.80E+01	x	5.57E-04	x	0.00003	=	8.02E-07	0.0
PCB-189	1.20E+01	x	5.57E-04	x	0.00003	=	2.01E-07	0.0

Total WHO-TEQ ADE	2.37E-03	pg WHO-TEQ kg ⁻¹ BW day ⁻¹
TDSI	1.30E+00	pg WHO-TEQ kg ⁻¹ BW day ⁻¹
Hazard Index	0.00	

PCDDs, PCDFs and dioxin-like compounds worksheet for a commercial land use scenario

This worksheet should be used only in conjunction with *Soil Guideline Values for dioxins, furans and dioxin-like PCBs in soil, Science Report SC050021 / Dioxins SGV*

For each congener/compound, enter the site-specific representative soil concentration in the respective grey box. The Hazard Index is the ratio of the total soil exposure to the oral TDSI.

Substance	Soil Concentration		Exposure Factor		TEF		Average Daily Exposure	Contribution to ADE
	ng kg ⁻¹ DW		pg kg ⁻¹ BW day ⁻¹ per ng kg ⁻¹ DW soil		-		pg WHO-TEQ kg ⁻¹ BW day ⁻¹	%
2,3,7,8-TCDD	4.50E-01	x	4.75E-04	x	1	=	2.14E-04	9.7
1,2,3,7,8-PeCDD	6.10E-01	x	4.75E-04	x	1	=	2.90E-04	13.2
1,2,3,4,7,8-HxCDD	1.20E+00	x	4.75E-04	x	0.1	=	5.70E-05	2.6
1,2,3,6,7,8-HxCDD	2.40E+00	x	4.75E-04	x	0.1	=	1.14E-04	5.2
1,2,3,7,8,9-HxCDD	1.20E+00	x	4.75E-04	x	0.1	=	5.70E-05	2.6
1,2,3,4,6,7,8-HpCDD	5.50E+01	x	4.75E-04	x	0.01	=	2.61E-04	11.9
OCDD	4.30E+01	x	4.75E-04	x	0.0003	=	6.13E-06	0.3
2,3,7,8-TCDF	3.30E+00	x	4.75E-04	x	0.1	=	1.57E-04	7.1
1,2,3,7,8-PeCDF	1.20E+00	x	4.75E-04	x	0.03	=	1.71E-05	0.8
2,3,4,7,8-PeCDF	1.20E+00	x	4.75E-04	x	0.3	=	1.71E-04	7.8
1,2,3,4,7,8-HxCDF	3.00E+00	x	4.75E-04	x	0.1	=	1.43E-04	6.5
1,2,3,7,8,9-HxCDF	1.50E+00	x	4.75E-04	x	0.1	=	7.13E-05	3.2
1,2,3,6,7,8-HxCDF	3.00E+00	x	4.75E-04	x	0.1	=	1.43E-04	6.5
2,3,4,6,7,8-HxCDF	3.00E+00	x	4.75E-04	x	0.1	=	1.43E-04	6.5
1,2,3,4,6,7,8-HpCDF	1.70E+01	x	4.75E-04	x	0.01	=	8.08E-05	3.7
1,2,3,4,7,8,9-HpCDF	8.70E+00	x	4.75E-04	x	0.01	=	4.13E-05	1.9
OCDF	1.20E+01	x	4.75E-04	x	0.0003	=	1.71E-06	0.1
PCB-77	9.00E+01	x	5.57E-04	x	0.0001	=	5.01E-06	0.2
PCB-81	2.50E+00	x	5.57E-04	x	0.0003	=	4.18E-07	0.0
PCB-126	2.60E+00	x	5.57E-04	x	0.1	=	1.45E-04	6.6
PCB-169	3.80E+00	x	5.57E-04	x	0.03	=	6.35E-05	2.9
PCB-105	2.50E+02	x	5.57E-04	x	0.00003	=	4.18E-06	0.2
PCB-114	1.90E+00	x	5.57E-04	x	0.00003	=	3.18E-08	0.0
PCB-118	4.60E+02	x	5.57E-04	x	0.00003	=	7.69E-06	0.3
PCB-123	2.10E+00	x	5.57E-04	x	0.00003	=	3.51E-08	0.0
PCB-156	1.90E+02	x	5.57E-04	x	0.00003	=	3.18E-06	0.1
PCB-157	1.70E+01	x	5.57E-04	x	0.00003	=	2.84E-07	0.0
PCB-167	8.60E+01	x	5.57E-04	x	0.00003	=	1.44E-06	0.1
PCB-189	4.60E+01	x	5.57E-04	x	0.00003	=	7.69E-07	0.0

Total WHO-TEQ ADE	2.20E-03	pg WHO-TEQ kg ⁻¹ BW day ⁻¹
TDSI	1.30E+00	pg WHO-TEQ kg ⁻¹ BW day ⁻¹
Hazard Index	0.00	

PCDDs, PCDFs and dioxin-like compounds worksheet for a commercial land use scenario

This worksheet should be used only in conjunction with *Soil Guideline Values for dioxins, furans and dioxin-like PCBs in soil, Science Report SC050021 / Dioxins SGV*

For each congener/compound, enter the site-specific representative soil concentration in the respective grey box. The Hazard Index is the ratio of the total soil exposure to the oral TDSI.

Substance	Soil Concentration	Exposure Factor		TEF	Average Daily Exposure	Contribution to ADE
	ng kg ⁻¹ DW		pg kg ⁻¹ BW day ⁻¹ per ng kg ⁻¹ DW soil			
2,3,7,8-TCDD	4.20E-01	x	4.75E-04	x	1 = 2.00E-04	10.2
1,2,3,7,8-PeCDD	6.20E-01	x	4.75E-04	x	1 = 2.95E-04	15.1
1,2,3,4,7,8-HxCDD	1.40E+00	x	4.75E-04	x	0.1 = 6.65E-05	3.4
1,2,3,6,7,8-HxCDD	1.40E+00	x	4.75E-04	x	0.1 = 6.65E-05	3.4
1,2,3,7,8,9-HxCDD	1.40E+00	x	4.75E-04	x	0.1 = 6.65E-05	3.4
1,2,3,4,6,7,8-HpCDD	3.50E+01	x	4.75E-04	x	0.01 = 1.66E-04	8.5
OCDD	2.60E+02	x	4.75E-04	x	0.0003 = 3.71E-05	1.9
2,3,7,8-TCDF	1.10E+00	x	4.75E-04	x	0.1 = 5.23E-05	2.7
1,2,3,7,8-PeCDF	6.90E-01	x	4.75E-04	x	0.03 = 9.84E-06	0.5
2,3,4,7,8-PeCDF	6.90E-01	x	4.75E-04	x	0.3 = 9.84E-05	5.0
1,2,3,4,7,8-HxCDF	1.30E+00	x	4.75E-04	x	0.1 = 6.18E-05	3.2
1,2,3,7,8,9-HxCDF	1.30E+00	x	4.75E-04	x	0.1 = 6.18E-05	3.2
1,2,3,6,7,8-HxCDF	2.50E+00	x	4.75E-04	x	0.1 = 1.19E-04	6.1
2,3,4,6,7,8-HxCDF	1.30E+00	x	4.75E-04	x	0.1 = 6.18E-05	3.2
1,2,3,4,6,7,8-HpCDF	9.00E+00	x	4.75E-04	x	0.01 = 4.28E-05	2.2
1,2,3,4,7,8,9-HpCDF	4.50E+00	x	4.75E-04	x	0.01 = 2.14E-05	1.1
OCDF	4.10E+00	x	4.75E-04	x	0.0003 = 5.85E-07	0.0
PCB-77	4.40E+01	x	5.57E-04	x	0.0001 = 2.45E-06	0.1
PCB-81	2.00E+01	x	5.57E-04	x	0.0003 = 3.34E-06	0.2
PCB-126	8.30E+00	x	5.57E-04	x	0.1 = 4.62E-04	23.7
PCB-169	2.30E+00	x	5.57E-04	x	0.03 = 3.84E-05	2.0
PCB-105	2.20E+02	x	5.57E-04	x	0.00003 = 3.68E-06	0.2
PCB-114	1.20E+01	x	5.57E-04	x	0.00003 = 2.01E-07	0.0
PCB-118	5.00E+02	x	5.57E-04	x	0.00003 = 8.36E-06	0.4
PCB-123	8.40E+00	x	5.57E-04	x	0.00003 = 1.40E-07	0.0
PCB-156	7.60E+01	x	5.57E-04	x	0.00003 = 1.27E-06	0.1
PCB-157	6.00E+01	x	5.57E-04	x	0.00003 = 1.00E-06	0.1
PCB-167	6.30E+01	x	5.57E-04	x	0.00003 = 1.05E-06	0.1
PCB-189	1.20E+01	x	5.57E-04	x	0.00003 = 2.01E-07	0.0

Total WHO-TEQ ADE	1.95E-03	pg WHO-TEQ kg ⁻¹ BW day ⁻¹
TDSI	1.30E+00	pg WHO-TEQ kg ⁻¹ BW day ⁻¹
Hazard Index	0.00	

PCDDs, PCDFs and dioxin-like compounds worksheet for a commercial land use scenario

This worksheet should be used only in conjunction with *Soil Guideline Values for dioxins, furans and dioxin-like PCBs in soil, Science Report SC050021 / Dioxins SGV*

For each congener/compound, enter the site-specific representative soil concentration in the respective grey box. The Hazard Index is the ratio of the total soil exposure to the oral TDSI.

Substance	Soil Concentration	Exposure Factor		TEF	Average Daily Exposure	Contribution to ADE
	ng kg ⁻¹ DW		pg kg ⁻¹ BW day ⁻¹ per ng kg ⁻¹ DW soil			
2,3,7,8-TCDD	4.40E-01	x	4.75E-04	x	1 = 2.09E-04	2.3
1,2,3,7,8-PeCDD	7.60E-01	x	4.75E-04	x	1 = 3.61E-04	3.9
1,2,3,4,7,8-HxCDD	1.40E+00	x	4.75E-04	x	0.1 = 6.65E-05	0.7
1,2,3,6,7,8-HxCDD	1.10E+01	x	4.75E-04	x	0.1 = 5.23E-04	5.7
1,2,3,7,8,9-HxCDD	4.10E+00	x	4.75E-04	x	0.1 = 1.95E-04	2.1
1,2,3,4,6,7,8-HpCDD	1.80E+02	x	4.75E-04	x	0.01 = 8.56E-04	9.3
OCDD	1.30E+03	x	4.75E-04	x	0.0003 = 1.85E-04	2.0
2,3,7,8-TCDF	1.20E+01	x	4.75E-04	x	0.1 = 5.70E-04	6.2
1,2,3,7,8-PeCDF	7.70E+00	x	4.75E-04	x	0.03 = 1.10E-04	1.2
2,3,4,7,8-PeCDF	1.10E+01	x	4.75E-04	x	0.3 = 1.57E-03	17.1
1,2,3,4,7,8-HxCDF	1.50E+01	x	4.75E-04	x	0.1 = 7.13E-04	7.8
1,2,3,7,8,9-HxCDF	3.20E+00	x	4.75E-04	x	0.1 = 1.52E-04	1.7
1,2,3,6,7,8-HxCDF	3.20E+01	x	4.75E-04	x	0.1 = 1.52E-03	16.6
2,3,4,6,7,8-HxCDF	1.20E+01	x	4.75E-04	x	0.1 = 5.70E-04	6.2
1,2,3,4,6,7,8-HpCDF	1.00E+02	x	4.75E-04	x	0.01 = 4.75E-04	5.2
1,2,3,4,7,8,9-HpCDF	5.40E+00	x	4.75E-04	x	0.01 = 2.57E-05	0.3
OCDF	6.40E+01	x	4.75E-04	x	0.0003 = 9.13E-06	0.1
PCB-77	6.80E+02	x	5.57E-04	x	0.0001 = 3.79E-05	0.4
PCB-81	7.00E+01	x	5.57E-04	x	0.0003 = 1.17E-05	0.1
PCB-126	1.30E+01	x	5.57E-04	x	0.1 = 7.24E-04	7.9
PCB-169	1.10E+01	x	5.57E-04	x	0.03 = 1.84E-04	2.0
PCB-105	1.50E+03	x	5.57E-04	x	0.00003 = 2.51E-05	0.3
PCB-114	9.50E+01	x	5.57E-04	x	0.00003 = 1.59E-06	0.0
PCB-118	3.60E+03	x	5.57E-04	x	0.00003 = 6.02E-05	0.7
PCB-123	1.00E+02	x	5.57E-04	x	0.00003 = 1.67E-06	0.0
PCB-156	6.80E+02	x	5.57E-04	x	0.00003 = 1.14E-05	0.1
PCB-157	1.10E+02	x	5.57E-04	x	0.00003 = 1.84E-06	0.0
PCB-167	2.90E+02	x	5.57E-04	x	0.00003 = 4.85E-06	0.1
PCB-189	1.40E+02	x	5.57E-04	x	0.00003 = 2.34E-06	0.0

Total WHO-TEQ ADE	9.18E-03	pg WHO-TEQ kg ⁻¹ BW day ⁻¹
TDSI	1.30E+00	pg WHO-TEQ kg ⁻¹ BW day ⁻¹
Hazard Index	0.01	

PCDDs, PCDFs and dioxin-like compounds worksheet for a commercial land use scenario

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For each congener/compound, enter the site-specific representative soil concentration in the respective grey box. The Hazard Index is the ratio of the total soil exposure to the oral TDSI.

Substance	Soil Concentration	Exposure Factor		TEF	Average Daily Exposure	Contribution to ADE
	ng kg ⁻¹ DW		pg kg ⁻¹ BW day ⁻¹ per ng kg ⁻¹ DW soil			
2,3,7,8-TCDD	8.80E-01	x	4.75E-04	x	1 = 4.18E-04	12.3
1,2,3,7,8-PeCDD	1.90E+00	x	4.75E-04	x	1 = 9.03E-04	26.6
1,2,3,4,7,8-HxCDD	1.70E+00	x	4.75E-04	x	0.1 = 8.08E-05	2.4
1,2,3,6,7,8-HxCDD	1.70E+00	x	4.75E-04	x	0.1 = 8.08E-05	2.4
1,2,3,7,8,9-HxCDD	1.70E+00	x	4.75E-04	x	0.1 = 8.08E-05	2.4
1,2,3,4,6,7,8-HpCDD	6.10E+00	x	4.75E-04	x	0.01 = 2.90E-05	0.9
OCDD	7.60E+01	x	4.75E-04	x	0.0003 = 1.08E-05	0.3
2,3,7,8-TCDF	6.30E-01	x	4.75E-04	x	0.1 = 2.99E-05	0.9
1,2,3,7,8-PeCDF	1.10E+00	x	4.75E-04	x	0.03 = 1.57E-05	0.5
2,3,4,7,8-PeCDF	1.10E+00	x	4.75E-04	x	0.3 = 1.57E-04	4.6
1,2,3,4,7,8-HxCDF	1.60E+00	x	4.75E-04	x	0.1 = 7.60E-05	2.2
1,2,3,7,8,9-HxCDF	1.60E+00	x	4.75E-04	x	0.1 = 7.60E-05	2.2
1,2,3,6,7,8-HxCDF	1.60E+00	x	4.75E-04	x	0.1 = 7.60E-05	2.2
2,3,4,6,7,8-HxCDF	1.60E+00	x	4.75E-04	x	0.1 = 7.60E-05	2.2
1,2,3,4,6,7,8-HpCDF	1.50E+01	x	4.75E-04	x	0.01 = 7.13E-05	2.1
1,2,3,4,7,8,9-HpCDF	7.30E+00	x	4.75E-04	x	0.01 = 3.47E-05	1.0
OCDF	1.90E+01	x	4.75E-04	x	0.0003 = 2.71E-06	0.1
PCB-77	8.00E+01	x	5.57E-04	x	0.0001 = 4.46E-06	0.1
PCB-81	2.30E+00	x	5.57E-04	x	0.0003 = 3.84E-07	0.0
PCB-126	7.80E+00	x	5.57E-04	x	0.1 = 4.35E-04	12.8
PCB-169	4.40E+01	x	5.57E-04	x	0.03 = 7.35E-04	21.6
PCB-105	8.30E+01	x	5.57E-04	x	0.00003 = 1.39E-06	0.0
PCB-114	1.20E+00	x	5.57E-04	x	0.00003 = 2.01E-08	0.0
PCB-118	2.10E+02	x	5.57E-04	x	0.00003 = 3.51E-06	0.1
PCB-123	1.60E+00	x	5.57E-04	x	0.00003 = 2.67E-08	0.0
PCB-156	3.80E+01	x	5.57E-04	x	0.00003 = 6.35E-07	0.0
PCB-157	2.00E+00	x	5.57E-04	x	0.00003 = 3.34E-08	0.0
PCB-167	2.40E+01	x	5.57E-04	x	0.00003 = 4.01E-07	0.0
PCB-189	6.40E+01	x	5.57E-04	x	0.00003 = 1.07E-06	0.0

Total WHO-TEQ ADE	3.40E-03	pg WHO-TEQ kg ⁻¹ BW day ⁻¹
TDSI	1.30E+00	pg WHO-TEQ kg ⁻¹ BW day ⁻¹
Hazard Index	0.00	

PCDDs, PCDFs and dioxin-like compounds worksheet for a commercial land use scenario

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For each congener/compound, enter the site-specific representative soil concentration in the respective grey box. The Hazard Index is the ratio of the total soil exposure to the oral TDSI.

Substance	Soil Concentration	Exposure Factor		TEF	Average Daily Exposure	Contribution to ADE
	ng kg ⁻¹ DW		pg kg ⁻¹ BW day ⁻¹ per ng kg ⁻¹ DW soil			
2,3,7,8-TCDD	4.30E-01	x	4.75E-04	x	1 = 2.04E-04	1.8
1,2,3,7,8-PeCDD	6.10E-01	x	4.75E-04	x	1 = 2.90E-04	2.6
1,2,3,4,7,8-HxCDD	2.70E+00	x	4.75E-04	x	0.1 = 1.28E-04	1.2
1,2,3,6,7,8-HxCDD	1.30E+01	x	4.75E-04	x	0.1 = 6.18E-04	5.5
1,2,3,7,8,9-HxCDD	6.90E+00	x	4.75E-04	x	0.1 = 3.28E-04	2.9
1,2,3,4,6,7,8-HpCDD	2.70E+02	x	4.75E-04	x	0.01 = 1.28E-03	11.5
OCDD	2.20E+03	x	4.75E-04	x	0.0003 = 3.14E-04	2.8
2,3,7,8-TCDF	2.40E+00	x	4.75E-04	x	0.1 = 1.14E-04	1.0
1,2,3,7,8-PeCDF	2.90E+00	x	4.75E-04	x	0.03 = 4.14E-05	0.4
2,3,4,7,8-PeCDF	2.90E+00	x	4.75E-04	x	0.3 = 4.14E-04	3.7
1,2,3,4,7,8-HxCDF	3.60E+01	x	4.75E-04	x	0.1 = 1.71E-03	15.4
1,2,3,7,8,9-HxCDF	5.00E+00	x	4.75E-04	x	0.1 = 2.38E-04	2.1
1,2,3,6,7,8-HxCDF	3.90E+01	x	4.75E-04	x	0.1 = 1.85E-03	16.6
2,3,4,6,7,8-HxCDF	1.60E+01	x	4.75E-04	x	0.1 = 7.60E-04	6.8
1,2,3,4,6,7,8-HpCDF	2.30E+02	x	4.75E-04	x	0.01 = 1.09E-03	9.8
1,2,3,4,7,8,9-HpCDF	3.80E+01	x	4.75E-04	x	0.01 = 1.81E-04	1.6
OCDF	3.00E+02	x	4.75E-04	x	0.0003 = 4.28E-05	0.4
PCB-77	1.20E+03	x	5.57E-04	x	0.0001 = 6.69E-05	0.6
PCB-81	3.10E+00	x	5.57E-04	x	0.0003 = 5.18E-07	0.0
PCB-126	1.40E+01	x	5.57E-04	x	0.1 = 7.80E-04	7.0
PCB-169	2.90E+01	x	5.57E-04	x	0.03 = 4.85E-04	4.3
PCB-105	3.40E+03	x	5.57E-04	x	0.00003 = 5.68E-05	0.5
PCB-114	1.10E+02	x	5.57E-04	x	0.00003 = 1.84E-06	0.0
PCB-118	6.40E+03	x	5.57E-04	x	0.00003 = 1.07E-04	1.0
PCB-123	1.00E+02	x	5.57E-04	x	0.00003 = 1.67E-06	0.0
PCB-156	1.00E+03	x	5.57E-04	x	0.00003 = 1.67E-05	0.1
PCB-157	1.80E+02	x	5.57E-04	x	0.00003 = 3.01E-06	0.0
PCB-167	4.80E+02	x	5.57E-04	x	0.00003 = 8.02E-06	0.1
PCB-189	7.40E+01	x	5.57E-04	x	0.00003 = 1.24E-06	0.0

Total WHO-TEQ ADE	1.11E-02	pg WHO-TEQ kg ⁻¹ BW day ⁻¹
TDSI	1.30E+00	pg WHO-TEQ kg ⁻¹ BW day ⁻¹
Hazard Index	0.01	

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For each congener/compound, enter the site-specific representative soil concentration in the respective grey box. The Hazard Index is the ratio of the total soil exposure to the oral TDSI.

Substance	Soil Concentration	Exposure Factor		TEF	Average Daily Exposure	Contribution to ADE
	ng kg ⁻¹ DW		pg kg ⁻¹ BW day ⁻¹ per ng kg ⁻¹ DW soil			
2,3,7,8-TCDD	7.00E-01	x	4.75E-04	x	1 = 3.33E-04	1.8
1,2,3,7,8-PeCDD	1.70E+00	x	4.75E-04	x	1 = 8.08E-04	4.4
1,2,3,4,7,8-HxCDD	5.10E+00	x	4.75E-04	x	0.1 = 2.42E-04	1.3
1,2,3,6,7,8-HxCDD	2.10E+01	x	4.75E-04	x	0.1 = 9.98E-04	5.5
1,2,3,7,8,9-HxCDD	8.30E+00	x	4.75E-04	x	0.1 = 3.94E-04	2.2
1,2,3,4,6,7,8-HpCDD	1.10E+03	x	4.75E-04	x	0.01 = 5.23E-03	28.7
OCDD	9.70E+03	x	4.75E-04	x	0.0003 = 1.38E-03	7.6
2,3,7,8-TCDF	5.60E+00	x	4.75E-04	x	0.1 = 2.66E-04	1.5
1,2,3,7,8-PeCDF	2.30E+00	x	4.75E-04	x	0.03 = 3.28E-05	0.2
2,3,4,7,8-PeCDF	2.30E+00	x	4.75E-04	x	0.3 = 3.28E-04	1.8
1,2,3,4,7,8-HxCDF	7.20E+00	x	4.75E-04	x	0.1 = 3.42E-04	1.9
1,2,3,7,8,9-HxCDF	2.00E+00	x	4.75E-04	x	0.1 = 9.51E-05	0.5
1,2,3,6,7,8-HxCDF	6.50E+00	x	4.75E-04	x	0.1 = 3.09E-04	1.7
2,3,4,6,7,8-HxCDF	5.10E+00	x	4.75E-04	x	0.1 = 2.42E-04	1.3
1,2,3,4,6,7,8-HpCDF	1.50E+02	x	4.75E-04	x	0.01 = 7.13E-04	3.9
1,2,3,4,7,8,9-HpCDF	1.90E+01	x	4.75E-04	x	0.01 = 9.03E-05	0.5
OCDF	7.30E+02	x	4.75E-04	x	0.0003 = 1.04E-04	0.6
PCB-77	1.20E+04	x	5.57E-04	x	0.0001 = 6.69E-04	3.7
PCB-81	3.30E+02	x	5.57E-04	x	0.0003 = 5.52E-05	0.3
PCB-126	5.10E+01	x	5.57E-04	x	0.1 = 2.84E-03	15.6
PCB-169	2.60E+01	x	5.57E-04	x	0.03 = 4.34E-04	2.4
PCB-105	3.60E+04	x	5.57E-04	x	0.00003 = 6.02E-04	3.3
PCB-114	1.90E+03	x	5.57E-04	x	0.00003 = 3.18E-05	0.2
PCB-118	8.70E+04	x	5.57E-04	x	0.00003 = 1.45E-03	8.0
PCB-123	1.10E+03	x	5.57E-04	x	0.00003 = 1.84E-05	0.1
PCB-156	8.40E+03	x	5.57E-04	x	0.00003 = 1.40E-04	0.8
PCB-157	2.30E+03	x	5.57E-04	x	0.00003 = 3.84E-05	0.2
PCB-167	2.60E+03	x	5.57E-04	x	0.00003 = 4.35E-05	0.2
PCB-189	3.90E+02	x	5.57E-04	x	0.00003 = 6.52E-06	0.0

Total WHO-TEQ ADE

1.82E-02

pg WHO-TEQ kg⁻¹ BW day⁻¹

TDSI

1.30E+00

pg WHO-TEQ kg⁻¹ BW day⁻¹

Hazard Index

0.01

PCDDs, PCDFs and dioxin-like compounds worksheet for a commercial land use scenario

This worksheet should be used only in conjunction with *Soil Guideline Values for dioxins, furans and dioxin-like PCBs in soil, Science Report SC050021 / Dioxins SGV*

For each congener/compound, enter the site-specific representative soil concentration in the respective grey box. The Hazard Index is the ratio of the total soil exposure to the oral TDSI.

Substance	Soil Concentration	Exposure Factor		TEF	Average Daily Exposure		Contribution to ADE	
	ng kg ⁻¹ DW		pg kg ⁻¹ BW day ⁻¹ per ng kg ⁻¹ DW soil			pg WHO-TEQ kg ⁻¹ BW day ⁻¹	%	
2,3,7,8-TCDD	2.20E+00	x	4.75E-04	x	1	=	1.05E-03	4.0
1,2,3,7,8-PeCDD	2.60E+00	x	4.75E-04	x	1	=	1.24E-03	4.7
1,2,3,4,7,8-HxCDD	4.50E+00	x	4.75E-04	x	0.1	=	2.14E-04	0.8
1,2,3,6,7,8-HxCDD	2.00E+01	x	4.75E-04	x	0.1	=	9.51E-04	3.6
1,2,3,7,8,9-HxCDD	7.30E+00	x	4.75E-04	x	0.1	=	3.47E-04	1.3
1,2,3,4,6,7,8-HpCDD	4.50E+02	x	4.75E-04	x	0.01	=	2.14E-03	8.2
OCDD	2.80E+03	x	4.75E-04	x	0.0003	=	3.99E-04	1.5
2,3,7,8-TCDF	2.70E+01	x	4.75E-04	x	0.1	=	1.28E-03	4.9
1,2,3,7,8-PeCDF	1.10E+01	x	4.75E-04	x	0.03	=	1.57E-04	0.6
2,3,4,7,8-PeCDF	1.90E+01	x	4.75E-04	x	0.3	=	2.71E-03	10.4
1,2,3,4,7,8-HxCDF	2.50E+01	x	4.75E-04	x	0.1	=	1.19E-03	4.6
1,2,3,7,8,9-HxCDF	7.00E+00	x	4.75E-04	x	0.1	=	3.33E-04	1.3
1,2,3,6,7,8-HxCDF	2.50E+01	x	4.75E-04	x	0.1	=	1.19E-03	4.6
2,3,4,6,7,8-HxCDF	2.20E+01	x	4.75E-04	x	0.1	=	1.05E-03	4.0
1,2,3,4,6,7,8-HpCDF	1.40E+02	x	4.75E-04	x	0.01	=	6.65E-04	2.5
1,2,3,4,7,8,9-HpCDF	9.20E+00	x	4.75E-04	x	0.01	=	4.37E-05	0.2
OCDF	1.00E+02	x	4.75E-04	x	0.0003	=	1.43E-05	0.1
PCB-77	8.20E+03	x	5.57E-04	x	0.0001	=	4.57E-04	1.7
PCB-81	3.40E+02	x	5.57E-04	x	0.0003	=	5.68E-05	0.2
PCB-126	1.60E+02	x	5.57E-04	x	0.1	=	8.91E-03	34.1
PCB-169	1.50E+01	x	5.57E-04	x	0.03	=	2.51E-04	1.0
PCB-105	2.40E+04	x	5.57E-04	x	0.00003	=	4.01E-04	1.5
PCB-114	1.50E+03	x	5.57E-04	x	0.00003	=	2.51E-05	0.1
PCB-118	5.00E+04	x	5.57E-04	x	0.00003	=	8.36E-04	3.2
PCB-123	1.30E+03	x	5.57E-04	x	0.00003	=	2.17E-05	0.1
PCB-156	6.50E+03	x	5.57E-04	x	0.00003	=	1.09E-04	0.4
PCB-157	9.50E+02	x	5.57E-04	x	0.00003	=	1.59E-05	0.1
PCB-167	3.10E+03	x	5.57E-04	x	0.00003	=	5.18E-05	0.2
PCB-189	8.80E+02	x	5.57E-04	x	0.00003	=	1.47E-05	0.1

Total WHO-TEQ ADE

2.61E-02

pg WHO-TEQ kg⁻¹ BW day⁻¹

TDSI

1.30E+00

pg WHO-TEQ kg⁻¹ BW day⁻¹

Hazard Index

0.02

PCDDs, PCDFs and dioxin-like compounds worksheet for a commercial land use scenario

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For each congener/compound, enter the site-specific representative soil concentration in the respective grey box. The Hazard Index is the ratio of the total soil exposure to the oral TDSI.

Substance	Soil Concentration	Exposure Factor		TEF	Average Daily Exposure	Contribution to ADE
	ng kg ⁻¹ DW		pg kg ⁻¹ BW day ⁻¹ per ng kg ⁻¹ DW soil			
2,3,7,8-TCDD	4.20E-01	x	4.75E-04	x	1 = 2.00E-04	1.2
1,2,3,7,8-PeCDD	5.40E-01	x	4.75E-04	x	1 = 2.57E-04	1.5
1,2,3,4,7,8-HxCDD	2.50E+00	x	4.75E-04	x	0.1 = 1.19E-04	0.7
1,2,3,6,7,8-HxCDD	4.90E+00	x	4.75E-04	x	0.1 = 2.33E-04	1.4
1,2,3,7,8,9-HxCDD	2.50E+00	x	4.75E-04	x	0.1 = 1.19E-04	0.7
1,2,3,4,6,7,8-HpCDD	6.70E+01	x	4.75E-04	x	0.01 = 3.18E-04	1.9
OCDD	3.40E+02	x	4.75E-04	x	0.0003 = 4.85E-05	0.3
2,3,7,8-TCDF	2.10E+01	x	4.75E-04	x	0.1 = 9.98E-04	5.8
1,2,3,7,8-PeCDF	6.50E+00	x	4.75E-04	x	0.03 = 9.27E-05	0.5
2,3,4,7,8-PeCDF	2.90E+00	x	4.75E-04	x	0.3 = 4.14E-04	2.4
1,2,3,4,7,8-HxCDF	9.50E+00	x	4.75E-04	x	0.1 = 4.52E-04	2.6
1,2,3,7,8,9-HxCDF	1.80E+00	x	4.75E-04	x	0.1 = 8.56E-05	0.5
1,2,3,6,7,8-HxCDF	1.30E+01	x	4.75E-04	x	0.1 = 6.18E-04	3.6
2,3,4,6,7,8-HxCDF	6.50E+00	x	4.75E-04	x	0.1 = 3.09E-04	1.8
1,2,3,4,6,7,8-HpCDF	4.80E+01	x	4.75E-04	x	0.01 = 2.28E-04	1.3
1,2,3,4,7,8,9-HpCDF	2.40E+01	x	4.75E-04	x	0.01 = 1.14E-04	0.7
OCDF	3.30E+01	x	4.75E-04	x	0.0003 = 4.71E-06	0.0
PCB-77	1.40E+03	x	5.57E-04	x	0.0001 = 7.80E-05	0.5
PCB-81	1.80E+02	x	5.57E-04	x	0.0003 = 3.01E-05	0.2
PCB-126	8.00E+00	x	5.57E-04	x	0.1 = 4.46E-04	2.6
PCB-169	7.10E+02	x	5.57E-04	x	0.03 = 1.19E-02	69.4
PCB-105	5.90E+02	x	5.57E-04	x	0.00003 = 9.86E-06	0.1
PCB-114	2.70E+01	x	5.57E-04	x	0.00003 = 4.51E-07	0.0
PCB-118	1.50E+03	x	5.57E-04	x	0.00003 = 2.51E-05	0.1
PCB-123	2.20E+01	x	5.57E-04	x	0.00003 = 3.68E-07	0.0
PCB-156	5.90E+02	x	5.57E-04	x	0.00003 = 9.86E-06	0.1
PCB-157	4.80E+02	x	5.57E-04	x	0.00003 = 8.02E-06	0.0
PCB-167	7.70E+02	x	5.57E-04	x	0.00003 = 1.29E-05	0.1
PCB-189	2.20E+02	x	5.57E-04	x	0.00003 = 3.68E-06	0.0

Total WHO-TEQ ADE	1.71E-02	pg WHO-TEQ kg ⁻¹ BW day ⁻¹
TDSI	1.30E+00	pg WHO-TEQ kg ⁻¹ BW day ⁻¹
Hazard Index	0.01	

PCDDs, PCDFs and dioxin-like compounds worksheet for a commercial land use scenario

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For each congener/compound, enter the site-specific representative soil concentration in the respective grey box. The Hazard Index is the ratio of the total soil exposure to the oral TDSI.

Substance	Soil Concentration	Exposure Factor		TEF	Average Daily Exposure	Contribution to ADE
	ng kg ⁻¹ DW		pg kg ⁻¹ BW day ⁻¹ per ng kg ⁻¹ DW soil			
2,3,7,8-TCDD	5.50E-01	x	4.75E-04	x	1 = 2.61E-04	9.2
1,2,3,7,8-PeCDD	6.60E-01	x	4.75E-04	x	1 = 3.14E-04	11.0
1,2,3,4,7,8-HxCDD	1.50E+00	x	4.75E-04	x	0.1 = 7.13E-05	2.5
1,2,3,6,7,8-HxCDD	1.50E+00	x	4.75E-04	x	0.1 = 7.13E-05	2.5
1,2,3,7,8,9-HxCDD	1.50E+00	x	4.75E-04	x	0.1 = 7.13E-05	2.5
1,2,3,4,6,7,8-HpCDD	1.80E+01	x	4.75E-04	x	0.01 = 8.56E-05	3.0
OCDD	1.00E+02	x	4.75E-04	x	0.0003 = 1.43E-05	0.5
2,3,7,8-TCDF	2.40E+00	x	4.75E-04	x	0.1 = 1.14E-04	4.0
1,2,3,7,8-PeCDF	1.90E+00	x	4.75E-04	x	0.03 = 2.71E-05	1.0
2,3,4,7,8-PeCDF	1.90E+00	x	4.75E-04	x	0.3 = 2.71E-04	9.5
1,2,3,4,7,8-HxCDF	2.00E+00	x	4.75E-04	x	0.1 = 9.51E-05	3.3
1,2,3,7,8,9-HxCDF	2.00E+00	x	4.75E-04	x	0.1 = 9.51E-05	3.3
1,2,3,6,7,8-HxCDF	2.00E+00	x	4.75E-04	x	0.1 = 9.51E-05	3.3
2,3,4,6,7,8-HxCDF	2.00E+00	x	4.75E-04	x	0.1 = 9.51E-05	3.3
1,2,3,4,6,7,8-HpCDF	1.20E+01	x	4.75E-04	x	0.01 = 5.70E-05	2.0
1,2,3,4,7,8,9-HpCDF	1.20E+01	x	4.75E-04	x	0.01 = 5.70E-05	2.0
OCDF	1.50E+01	x	4.75E-04	x	0.0003 = 2.14E-06	0.1
PCB-77	6.20E+01	x	5.57E-04	x	0.0001 = 3.45E-06	0.1
PCB-81	1.30E+01	x	5.57E-04	x	0.0003 = 2.17E-06	0.1
PCB-126	1.30E+01	x	5.57E-04	x	0.1 = 7.24E-04	25.4
PCB-169	4.30E+00	x	5.57E-04	x	0.03 = 7.19E-05	2.5
PCB-105	4.00E+03	x	5.57E-04	x	0.00003 = 6.68E-05	2.3
PCB-114	1.80E+02	x	5.57E-04	x	0.00003 = 3.01E-06	0.1
PCB-118	8.50E+03	x	5.57E-04	x	0.00003 = 1.42E-04	5.0
PCB-123	1.30E+02	x	5.57E-04	x	0.00003 = 2.17E-06	0.1
PCB-156	1.20E+03	x	5.57E-04	x	0.00003 = 2.01E-05	0.7
PCB-157	2.70E+02	x	5.57E-04	x	0.00003 = 4.51E-06	0.2
PCB-167	4.50E+02	x	5.57E-04	x	0.00003 = 7.52E-06	0.3
PCB-189	3.10E+01	x	5.57E-04	x	0.00003 = 5.18E-07	0.0

Total WHO-TEQ ADE	2.85E-03	pg WHO-TEQ kg ⁻¹ BW day ⁻¹
TDSI	1.30E+00	pg WHO-TEQ kg ⁻¹ BW day ⁻¹
Hazard Index	0.00	

PCDDs, PCDFs and dioxin-like compounds worksheet for a commercial land use scenario

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For each congener/compound, enter the site-specific representative soil concentration in the respective grey box. The Hazard Index is the ratio of the total soil exposure to the oral TDSI.

Substance	Soil Concentration	Exposure Factor		TEF	Average Daily Exposure	Contribution to ADE
	ng kg ⁻¹ DW		pg kg ⁻¹ BW day ⁻¹ per ng kg ⁻¹ DW soil			
2,3,7,8-TCDD	5.20E-01	x	4.75E-04	x	1 = 2.47E-04	1.1
1,2,3,7,8-PeCDD	2.70E+00	x	4.75E-04	x	1 = 1.28E-03	5.6
1,2,3,4,7,8-HxCDD	2.90E+00	x	4.75E-04	x	0.1 = 1.38E-04	0.6
1,2,3,6,7,8-HxCDD	5.50E+01	x	4.75E-04	x	0.1 = 2.61E-03	11.3
1,2,3,7,8,9-HxCDD	5.10E+00	x	4.75E-04	x	0.1 = 2.42E-04	1.0
1,2,3,4,6,7,8-HpCDD	2.00E+03	x	4.75E-04	x	0.01 = 9.51E-03	41.1
OCDD	1.90E+04	x	4.75E-04	x	0.0003 = 2.71E-03	11.7
2,3,7,8-TCDF	4.20E+00	x	4.75E-04	x	0.1 = 2.00E-04	0.9
1,2,3,7,8-PeCDF	2.60E+00	x	4.75E-04	x	0.03 = 3.71E-05	0.2
2,3,4,7,8-PeCDF	5.00E+00	x	4.75E-04	x	0.3 = 7.13E-04	3.1
1,2,3,4,7,8-HxCDF	4.40E+00	x	4.75E-04	x	0.1 = 2.09E-04	0.9
1,2,3,7,8,9-HxCDF	1.10E+00	x	4.75E-04	x	0.1 = 5.23E-05	0.2
1,2,3,6,7,8-HxCDF	5.80E+00	x	4.75E-04	x	0.1 = 2.76E-04	1.2
2,3,4,6,7,8-HxCDF	3.00E+00	x	4.75E-04	x	0.1 = 1.43E-04	0.6
1,2,3,4,6,7,8-HpCDF	1.70E+02	x	4.75E-04	x	0.01 = 8.08E-04	3.5
1,2,3,4,7,8,9-HpCDF	7.30E+00	x	4.75E-04	x	0.01 = 3.47E-05	0.2
OCDF	6.30E+02	x	4.75E-04	x	0.0003 = 8.98E-05	0.4
PCB-77	5.00E+03	x	5.57E-04	x	0.0001 = 2.79E-04	1.2
PCB-81	2.00E+02	x	5.57E-04	x	0.0003 = 3.34E-05	0.1
PCB-126	5.10E+01	x	5.57E-04	x	0.1 = 2.84E-03	12.3
PCB-169	1.50E+01	x	5.57E-04	x	0.03 = 2.51E-04	1.1
PCB-105	6.60E+03	x	5.57E-04	x	0.00003 = 1.10E-04	0.5
PCB-114	4.50E+02	x	5.57E-04	x	0.00003 = 7.52E-06	0.0
PCB-118	1.30E+04	x	5.57E-04	x	0.00003 = 2.17E-04	0.9
PCB-123	3.50E+02	x	5.57E-04	x	0.00003 = 5.85E-06	0.0
PCB-156	2.30E+03	x	5.57E-04	x	0.00003 = 3.84E-05	0.2
PCB-157	4.20E+02	x	5.57E-04	x	0.00003 = 7.02E-06	0.0
PCB-167	1.10E+03	x	5.57E-04	x	0.00003 = 1.84E-05	0.1
PCB-189	3.60E+02	x	5.57E-04	x	0.00003 = 6.02E-06	0.0

Total WHO-TEQ ADE

2.31E-02

pg WHO-TEQ kg⁻¹ BW day⁻¹

TDSI

1.30E+00

pg WHO-TEQ kg⁻¹ BW day⁻¹

Hazard Index

0.02

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Substance	Soil Concentration	Exposure Factor		TEF	Average Daily Exposure	Contribution to ADE
	ng kg ⁻¹ DW		pg kg ⁻¹ BW day ⁻¹ per ng kg ⁻¹ DW soil			
2,3,7,8-TCDD	6.60E-01	x	4.75E-04	x	1 = 3.14E-04	1.1
1,2,3,7,8-PeCDD	8.20E-01	x	4.75E-04	x	1 = 3.90E-04	1.4
1,2,3,4,7,8-HxCDD	8.20E+00	x	4.75E-04	x	0.1 = 3.90E-04	1.4
1,2,3,6,7,8-HxCDD	1.40E+02	x	4.75E-04	x	0.1 = 6.65E-03	23.4
1,2,3,7,8,9-HxCDD	2.60E+01	x	4.75E-04	x	0.1 = 1.24E-03	4.3
1,2,3,4,6,7,8-HpCDD	1.00E+03	x	4.75E-04	x	0.01 = 4.75E-03	16.7
OCDD	1.60E+03	x	4.75E-04	x	0.0003 = 2.28E-04	0.8
2,3,7,8-TCDF	8.50E+00	x	4.75E-04	x	0.1 = 4.04E-04	1.4
1,2,3,7,8-PeCDF	4.50E+00	x	4.75E-04	x	0.03 = 6.42E-05	0.2
2,3,4,7,8-PeCDF	5.30E+00	x	4.75E-04	x	0.3 = 7.56E-04	2.7
1,2,3,4,7,8-HxCDF	2.10E+01	x	4.75E-04	x	0.1 = 9.98E-04	3.5
1,2,3,7,8,9-HxCDF	1.40E+00	x	4.75E-04	x	0.1 = 6.65E-05	0.2
1,2,3,6,7,8-HxCDF	2.80E+01	x	4.75E-04	x	0.1 = 1.33E-03	4.7
2,3,4,6,7,8-HxCDF	1.50E+01	x	4.75E-04	x	0.1 = 7.13E-04	2.5
1,2,3,4,6,7,8-HpCDF	5.60E+02	x	4.75E-04	x	0.01 = 2.66E-03	9.4
1,2,3,4,7,8,9-HpCDF	1.90E+01	x	4.75E-04	x	0.01 = 9.03E-05	0.3
OCDF	3.80E+02	x	4.75E-04	x	0.0003 = 5.42E-05	0.2
PCB-77	1.20E+03	x	5.57E-04	x	0.0001 = 6.69E-05	0.2
PCB-81	3.60E+02	x	5.57E-04	x	0.0003 = 6.02E-05	0.2
PCB-126	1.70E+01	x	5.57E-04	x	0.1 = 9.47E-04	3.3
PCB-169	3.30E+02	x	5.57E-04	x	0.03 = 5.51E-03	19.4
PCB-105	1.10E+04	x	5.57E-04	x	0.00003 = 1.84E-04	0.6
PCB-114	3.20E+02	x	5.57E-04	x	0.00003 = 5.35E-06	0.0
PCB-118	2.10E+04	x	5.57E-04	x	0.00003 = 3.51E-04	1.2
PCB-123	3.50E+02	x	5.57E-04	x	0.00003 = 5.85E-06	0.0
PCB-156	2.30E+03	x	5.57E-04	x	0.00003 = 3.84E-05	0.1
PCB-157	1.40E+03	x	5.57E-04	x	0.00003 = 2.34E-05	0.1
PCB-167	6.20E+03	x	5.57E-04	x	0.00003 = 1.04E-04	0.4
PCB-189	3.60E+02	x	5.57E-04	x	0.00003 = 6.02E-06	0.0

Total WHO-TEQ ADE	2.84E-02	pg WHO-TEQ kg ⁻¹ BW day ⁻¹
TDSI	1.30E+00	pg WHO-TEQ kg ⁻¹ BW day ⁻¹
Hazard Index	0.02	

Appendix F - Ground Gas Generic Quantitative Risk Assessment

Appendix F

F1 Vapour Risk Assessment Notes

F1.1 Vapour Monitoring

F1.1.1 Vapour samples have been obtained from boreholes installed at each phase of the landfill investigation; an initial sampling round was completed in March 2017 in the boreholes installed as part of the 2016 landfill investigation (Long-term monitoring wells). Further rounds have been completed between July 2018 to March 2019, incorporating the monitoring wells installed during the WVP and LTCP investigations completed in 2018. Monitoring wells sampled included; LF-BH12A, LF-BH10G, LF-BH08G, LF-BH05G, LF-BH03G, LF-BH04G, LF-BH09, LF-BH07, LF-BH06 and LF-BH02 (long-term monitoring wells), BH201, BH203, BH204, BH207, BH213, BH219, BH220, BH226, BWS203, BWS213, BWS2016, WS206 (WVP) and BH216, BH222, BH223, BH232, BWS217, WS224 (LTCP). The vapour samples were obtained by the use of either pressurised gas containers or gas bags which were subsequently tested in the laboratory for;

- bulk gases i.e. methane, carbon dioxide, oxygen etc;
- speciated volatile organic compounds (VOCs);
- odourant gas analysis (hydrogen sulphide);
- C1-C7 hydrocarbons (alkanes & alkene);
- total petroleum hydrocarbon (TPH) in gas samples (aliphatic and aromatic C4 to C12); and
- dioxins and furans.

F1.1.2 During the latest monitoring period samples were collected over an 8-month period, July 2018 to March 2019. The vapour sampling schedule is detailed in Table 1.

Table 1 Vapour Sampling Schedule

Phase of Investigation	No. Samples/ Exploratory Hole I.D.s	Sampling Dates	Report No./Analysis Suites
Landfill SI 2016 (Long-term monitoring wells)	10: LF-BH12A, LF-BH10G, LF-BH08G, LF-BH05G, LF-BH03G, LF-BH04G, LF-BH09, LF-BH07, LF-BH06 and LF-BH02	March 2017	
	7: BH06, BH07, BH12A, BH03G, BH05G, BH08G, BH10GA	July 2018	<i>Report No. 469912 (VOCs, TPH in Gas, Bulk Gas, Odourant Gas, TICs)</i>

Phase of Investigation	No. Samples/ Exploratory Hole I.D.s	Sampling Dates	Report No./Analysis Suites
			<i>Report No. 756028 (Dioxins and Furans, Butane, Propane, Ethane and Ethene, arsenic, mercury, acetaldehyde, formaldehyde, Total VOCs)</i>
	7: BH06, BH07, BH08, BH12A, BH06A, BH03G, BH05G 4: BH07, BH12A, BH10GA	September 2018	<i>Round 1: Report No. 498384 (VOCs, TPH in Gas, Odourant Gas, Bulk Gas, TICs, hydrogen sulphide) Report No. 766984 (Dioxins and Furans, Butane, Propane, Ethane and Ethene, arsenic, mercury, acetaldehyde, formaldehyde) (VOC suite A)</i>
	4: BH03G, BH08G, BH06, BH05G,	September 2018	<i>Round 2: Report No. 768868-1 (VOC suite A)</i>
	7: BH06, BH07, BH12A, BH06A, BH03G, BH05G	October 2018	<i>Report No. 498383 (VOCs, TPH in Gas, Odourant Gas, Bulk Gas, hydrogen sulphide) Report No. 778109 (Dioxins and Furans, Butane, Propane, Ethane and Ethene, arsenic, mercury, acetaldehyde, formaldehyde, VOC suite A)</i>
	7: BH05G, BH06, BH07, BH06A, BH12A, BH03G, BH08G	4-6 th December 2018	<i>Report Nos. 498380 & 488438 (VOCs, TPH in Gas, Odourant Gas, Bulk Gas, TICs, hydrogen sulphide) Report No. 788572-1 (Dioxins and Furans, Butane, Propane, Ethane and Ethene, arsenic, mercury, acetaldehyde, formaldehyde, VOC suite A)</i>

Phase of Investigation	No. Samples/ Exploratory Hole I.D.s	Sampling Dates	Report No./Analysis Suites
	7: BH05G, BH06, BH07, BH06A, BH12A, BH03G, BH08G	22 Feb 2019	Report No. 804733 (Dioxins and Furans, Butane, Propane, Ethane and Ethene, arsenic, mercury, acetaldehyde, formaldehyde, VOC suite A)
WVP 2018	12: BH201, BH203, BH204, BH207, BH213, BH219, BH220, BH226, BWS203, BWS213, BWS216, WS206	August 2018 Sept 2018 Oct 2018	Round 1: Report No. 472329 (Bulk Gas + ethane,) Round 2: Report Nos. 475457 & 475468 (VOCs, Bulk Gas, C1- C7Hydrocarbons, Odourant Gas, TICs, hydrogen sulphide) Round 3: Report No. 478040 (Bulk Gas, VOC Total, C1- C7 Hydrocarbons & odourant gases, hydrogen sulphide)
LTCP 2019	6: BH216, BH222, BH223, BH232, BWS217, WS224	February 2019 March 2019	Round 1: Report No. 495512 (VOCs, Bulk Gas, TICs) Round 2: Report No. 499439 (VOCs, Bulk Gas, C1C7 Hydrocarbons, Odourant Gas, TICs)

F1.2 Summary of Analysis Results

Volatile Organic Compounds

- F1.2.1 A summary of the range of contaminant vapour concentrations detected above the laboratory limit of detection (LOD) in all boreholes in 2018-2019 is provided in Table 2.
- F1.2.2 The limit of detection noted on the analysis certificates for the 2018/2019 monitoring results varies for each determinand and between borehole samples due to dilutions needed to be conducted on the samples.

Table 2 Summary of Vapour Analysis Results above LOD July 2018 to March 2019 ($\mu\text{g}/\text{m}^3$)

Contaminant	CAS No.	Min.	Max.	Median	Average	No. above LOD/ (sample No.)
VOC						
1,1,1-Trichloroethane	71-55-6	52.3	490	271.15	271.15	2
1,1,2,2-Tetrachloroethane	79-34-5	15.7	1300	197.10	359.80	6
1,1,2-Trichloroethane	79-00-5	46.5	1220	320.00	416.79	7
1,1-Dichloroethane	75-34-3	53	300	56.70	136.57	3
1,1-Dichloroethene+ (1,1dichloroethylene)	75-35-4	27	68.8	46.70	47.50	3 (83)
1,2,3-Trimethylbenzene+	526-73-8	10.2	1020	103.25	317.53	10 (83)
1,2,4-Trichlorobenzene	120-82-1	10.5	5920	391.00	1379.80	16
1,2,4-Trimethylbenzene+	95-63-6	6.91	48.7	26.80	24.09	5 (83)
1,2-Dibromoethane	106-93-4	44.8	44.8	44.80	44.80	1
1,2-Dichlorobenzene	95-50-1	9.94	45	27.47	27.47	2
1,2-Dichloroethane	107-06-2	42.7	42.7	42.70	42.70	1
1,2-Dichloropropane	78-87-5	44.6	44.6	44.60	44.60	1
1,2-Dichlorotetrafluoroethane	76-14-2	16	10200	612.00	1129.99	19
1,3,5-Trimethylbenzene+	108-67-8	9.7	2200	165.00	578.86	14 (83)
1,3-Butadiene	106-99-0	100	100	100.00	100.00	1
1,4-Dichlorobenzene	106-46-7	26.5	588	50.80	154.84	5
1-Propanol	71-23-8	3.52	3.52	3.52	3.52	1
2-Butanone (MEK)	78-93-3	4.26	171	6.16	46.08	6
2-Pentanone	107-87-9	1010	1010	1010.00	1010.00	1
3-Pentanone	96-22-0	811	811	811.00	811.00	1
4-Methyl-2-pentanone	108-10-1	48.2	434	273.50	257.30	4
Acetone + Propanal	67-64-1 & 123-38-6	15.4	4000	70.25	319.96	16
Acetonitrile	75-05-8	5.5	4840	55.35	856.88	12
Acrolein	107-02-8	9.96	371	190.48	190.48	2
Benzene*	71-43-2	5.69	1040	182.00	253.51	32 (78)
Bromomethane	74-83-9	17.6	17.6	17.60	17.60	1
Carbon Disulfide	75-15-0	6.43	783	76.15	211.18	18
Carbon Tetrachloride	56-23-5	64.3	64.3	64.30	64.30	1
Chloroethane	108-90-7	31.4	1220	116.0	310.81	11
Chlorobenzene	75-00-3	34.6	34.6	34.61	34.60	1
Chloroform (trichloromethane)	67-66-3	23	55.4	39.20	39.20	2
Chloromethane	74-87-3	121	121	121.00	121.00	1
cis-1,2-Dichloroethene	156-59-2	17	571	72.10	158.31	7
cis-1,3-Dichloropropene	10061-01-5	30.4	30.4	30.40	30.40	1
Cyclohexane	110-82-7	8.2	2810	409.00	786.51	32

Contaminant	CAS No.	Min.	Max.	Median	Average	No. above LOD/ (sample No.)
Dichlorodifluoromethane	75-71-8	11.5	2580	531.00	778.66	19
Difluorochloromethane	75-45-6	5.11	20100	2020.00	4214.75	32
Ethylbenzene*	100-41-4	5.84	5330	318.5	755.41	25 (80)
Hexachlorobutadiene+	87-68-3	15.5	107	50.30	54.10	5 (83)
Hexanal	66-25-1	5.65	116	13.40	31.94	5
Hexane	110-54-3	9.9	6320	482.00	1165.29	35
Hydrogen Sulphide	7783-06-4	0	13500	0	551.6	79 (590)^
Isobutene	115-11-7	3.65	44600	1041.50	2532.87	44
m/p-Xylene*	108-38-3 & 106-42-3	8.51	101000	251.0	3345.48	47 (80)
Methylacrolein	78-85-3	10.9	55	25.00	30.30	3
Methylene Chloride	75-09-2	7.11	703	41.50	129.03	7
Naphthalene		9.54	15	12.60	12.38	3 (80)
o-Xylene*	95-47-6	6.02	2070	205.5	367.9	19 (80)
Pentanal	110-62-3	8.24	290	149.12	149.12	2
Pentane	109-66-0	5.67	13600	1425	2366.17	36
Styrene	100-42-5	28.4	28.4	28.40	28.40	1
Tetrachloroethene + (Tetrachloroethylene)	127-18-4	8.9	273	55.8	71.69	15 (80)
Toluene*	108-88-3	6.47	2060	130.00	343.15	26 (83)
trans-1,3-Dichloropropene	1006-02-6	26.8	26.8	26.80	26.80	1
Trichloroethene	79-01-6	47.8	1080	563.90	563.90	2
Trichlorofluoromethane	75-69-4	11.8	1420	101.00	331.23	13 (83)
Trichlorotrifluoroethane	26523-64-8	90.2	90.2	90.20	90.20	1
Vinyl Acetate	108-05-4	11.5	1180	26.30	298.40	5
Vinyl Chloride	75-01-4	38.7	1730	223.00	525.59	9
p-Isopropyltoluene+	99-87-6	28	73	50.5	50.5	2 (31)
Dimethyl sulphide+	75-18-3	140	140	140	140	1 (31)
Ethyl Mercaptan+ (Ethanethiol)	75-08-1	91	91	91	91	1 (31)
Isopropyl benzene+	98-82-8	33	33	33	33	1 (31)
Sec-Butylbenzene+	135-98-8	18	18	18	18	1 (31)
Acetaldehyde (Ethanal)+	75-07-0	20	50	30	31.7	6 (35)
Formaldehyde (Methanal)+	50-00-0	30	50	30	36.7	3 (35)
Arsenic+	7440-38-2	200	200	200	200	1 (35)
Mercury+	7439-97-6	1.3	1.3	1.3	1.3	1 (35)

* Dataset includes additional results from TPH in Gas Suite

+ alternative suite A, 4 sets of results for long-term monitoring wells only, concentration calculated by laboratory from ng

TPH in Gas Suite

F1.2.3 TPH in gas suite was analysed on 4No. monitoring visits (July to December 2018) in gas samples obtained from the long-term monitoring wells installed in the WVP in 2016. A summary of the results is provided in Table 3, below.

Table 3 Summary of TPH in Gas Suite above LOD (ug/m³)

Compound	Max.	Min.	Average	Median	No.>LOD (28)
TPH (C4-C6)	62200	57.2	7736.52	2424.50	28
TPH (C6-C8)	50200	42.2	11613.78	4003.50	28
TPH (C8-C10)	74400	117	14544.04	10400	25
TPH (C10-C12)	22100	158	4273.16	3070	19
TPH (C4-C12)	206000	219	39431.68	24500	25
Aliphatic (C4-C6)	62200	57.2	7736.52	2424.50	28
Aliphatic (C6-C8)	50200	32.2	11988.77	7300	27
Aliphatic (C8-C10)	71600	103	14102.08	9460	25
Aliphatic (C10-C12)	22100	158	4273.16	3070	19
Aromatic (EC5-EC7)	294	5.69	88.02	47.20	8
Aromatic (EC7-EC8)	322	6.46	85.12	25.10	10
Aromatic (EC8-EC10)	2980	56.1	933.35	237.50	12

Aromatic EC10-EC12, MTBE, and naphthalene were not detected above the limit of detection, although the LODs were highly variable and at high concentrations in some instances.

Odourant and C-C7 Hydrocarbons

F1.2.4 Odourant C1-C7 Hydrocarbons, all alkanes with the exception of ethene, were analysed in gas samples from long-term monitoring wells between July 2018 to February 2019 and in monitoring wells installed in WVP in 2018 on 2No. occasions (September & October 2018) with 1No. round of sampling from the LTCP in March 2019, results above limits of detection are summarised in Table 4 below:

Table 4 Summary of C1-C7 Hydrocarbons Analysis (ppm)

Compound	CAS No.	LOD	Min.	Max.	Median	Average	No. >LOD (sample No.)
Hydrogen Sulphide	7783-06-4	<1ppm	0	9	0	0.367	79(590) [^]
Propane	74-98-6	<1ppm	1.07	27.5	7.03	9.77	16 (65)

Compound	CAS No.	LOD	Min.	Max.	Median	Average	No. >LOD (sample No.)
iso-Butane	75-28-5	<1ppm	1.13	2.35	1.36	1.55	4 (11)
Butane	106-97-8	<1ppm	1.21	31	2.61	4.77	14 (65)
Pentane	109-66-0	<1ppm	1.17	2.08	1.625	1.625	2 (30)
Heptane	142-82-5	<1ppm	1.0	1.03	1.015	1.015	2 (30)

^H₂S dataset includes spot monitoring and laboratory analysis – odourant gas

Ethane, ethene, iso-pentane and hexane were not recorded above the limit of detection throughout the monitoring period. Although hexane was recorded above the LOD in the VOC suite, see **Error! Reference source not found.** above.

Bulk Gas Analysis

F1.2.5 Bulk Gas analysis was also completed on gas samples during the 2018/2019 monitoring period from all monitoring wells, a summary of the results is provided in Table 5.

Table 5 Summary of Bulk Gas Analysis

Bulk gases	Units	LOD	Min.	Max.	Median	Average
Hydrogen	%	<0.5	<0.5	<0.5	<0.5	<0.5
Oxygen	%	<0.5	0.547	21.7	13.9	11.47
Nitrogen	%	<1	9.24	84.6	78.2	63.7
Carbon monoxide	%	<0.05	<0.05	<0.05	<0.05	<0.05
Methane	%	<0.05	0.0581	62.9	25.6	28
Carbon Dioxide	%	<0.05	0.06	27.2	6.84	8.78

Dioxins and Furans

F1.2.6 Gas samples taken from the long-term monitoring wells were analysed for PCDD and PCDFs on 5No. occasions between July 2018 and February 2019. PCDD and PCDFs were recorded above the limit of detection in several boreholes on the first two monitoring rounds (see Table 6), subsequently all readings were below their respective LODs.

Table 6 Dioxins and Furans >LOD (ng)

Compound	Min.	Max.	No. >LOD /35	Borehole No.
1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.029	0.029	1	10GA
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.0087	0.026	2	06,10GA
1,2,3,6,7,8-	0.013	0.041	2	06,10GA

Compound	Min.	Max.	No. >LOD /35	Borehole No.
Hexachlorodibenzo-p-dioxin				
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.008	0.013	2	06,10GA
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.042	0.094	2	06,10GA
2,3,7,8-Tetrachlorodibenzofuran	0.014	0.033	4	05,06,08, 10GA
1,2,3,7,8-Pentachlorodibenzofuran	0.011	0.038	4	05,06,08, 10GA
2,3,4,7,8-Pentachlorodibenzofuran	0.011	0.094	5	05,06,07,08, 10GA
1,2,3,4,7,8-Hexachlorodibenzofuran	0.008	0.062	4	06,08, 10GA
1,2,3,6,7,8-Hexachlorodibenzofuran	0.0063	0.048	4	03,06,08, 10GA
2,3,4,6,7,8-Hexachlorodibenzofuran	0.0048	0.075	4	03,06,08, 10GA
1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.0098	0.099	5	06,07,08, 10GA

F1.2.7 The risk from Dioxins has been assessed using the Environment Agency (EA) 'PCDD, PCDFs and dioxin-like compounds worksheet for a commercial land use scenario' Worksheet, see Section 9.3 of Volume 1 of the DCO DQRA. Hazard Indices (HI) less than 1 were calculated indicating these compounds are not considered a risk to human health.

F1.3 Identification of Priority Compounds

F1.3.1 Due to the significant number of VOCs and trace gas components detected above the LOD it was necessary to prioritise the compounds of greater potential risk for further assessment

F1.3.2 The EA have developed a method of ranking the significance of trace components in landfill gas according to their potential toxicity and odour. Two scoring systems have been devised based on either the toxicological or odour importance combined with typical average or median concentrations in landfill gas to produce a toxicity significance score and odour significance score. This was completed for 174No. compounds of the over 500 compounds which can potentially be present as trace components of landfill gas. The significance ranking was initially completed in 2002 and reported in R & D Technical Report P1-

438/TR¹ using 2No. monitoring events for 1 landfill and from 2 different aged waste (3years and 17 years since emplacement). The rankings were further refined in 2004 (P1-491-TR)² with trace gas concentrations taken from a wider study of UK landfills of different waste types and maturity to increase representativeness.

- F1.3.3** P1-438 notes the ranking was completed using a logarithmic scale, and therefore the substances would have to be detected at concentrations an order of magnitude above that recorded in the database before it would alter the score used in the ranking. The results of the Eaton Green Landfill monitoring have generally not identified any compounds at average concentrations exceeding the average concentrations in the P-149 database. Non-detects were inputted at the highest stated limit of detection, due to the variable LOD as a precautionary approach, in accordance with P1-438-TR to identify maximum concentrations.
- F1.3.4** To identify priority compounds requiring further assessment the toxicity significance ranking presented in Table 9 of P1-149-TR was applied. This identifies the 37 substances with the highest score for potential toxic impact. The substances ranked in priority of odour importance was also referenced (P1-149-TR, Table 10), in combination, this identified 25No. compounds for further assessment.
- F1.3.5** The trace compounds identified as described above were subject to detailed quantitative risk assessment using the CLEA model v1.071³. In addition to these compounds the TPH in gas compounds including toluene, ethylbenzene and xylenes (TEX) were also assessed using the CLEA model as these determinands were consistently above the LOD throughout the monitoring period.
- F1.3.6** Although several of the alkane gases were noted to be elevated, only propane and butane were noted as consistently elevated. Neither compound are identified within the priority toxic or odour tables produced by the EA. No further assessment has been completed on these compounds, as they are not considered to be of significant risk to the occupants of the proposed development.
- F1.3.7** The CLEA assessment was based on chorionic exposure for an average adult female worker in a commercial setting, which

¹ Environment Agency (2002) Investigation of the composition, emissions and effects of trace components in landfill gas. R&D Technical Report P1-438/TR, Environment Agency, Bristol

² EA Environment Agency (2004) Quantification of trace components in landfill gas. R&D Technical Report P1-491/TR

³ EA CLEA Software version 1.071

was considered the most sensitive receptor given the proposed end use of buildings to be located over the former landfill.

Table 7 Priority Trace Compounds assessed using CLEA v.1.071

Compound	Max. $\mu\text{g}/\text{m}^3$	No. > LOD	Toxicity Score (P1-149)	Odour Score (P1-149)
Vinyl Chloride (chloroethene)	1730	9	550	-
Benzene	1040	32	500	-
Chloroethane	1220	11	400	-
Arsenic	200	1	175	-
Trichloroethene (TCE)	1080	2	90	-
1,1-Dichloroethene (1,1-Dichloroethylene)	267*	3	90	-
Hydrogen sulphide	13500	79	88	110
Carbon Disulfide	783	18	80	60
1,1-Dichloroethane	300	3	80	-
Carbon Tetrachloride (tetrachloromethane)	423*	1	70	-
1,3-Butadiene	148*	1	70	-
Formaldehyde (Methanal)	50	3	70	-
Mercury	1.3	1	50	-
Chloromethane	137*	1	48	-
Dichloromethane (Methylene Chloride)	703	7	45	-
Tetrachloroethene (PCE)	456*	15	45	-
Dichlorodifluoromethane (F-12)	2580	19	40	-
Styrene	286*	1	40	-
1,2-Dichloroethane (1,2-DCA)	272*	5	40	-
n-Hexane	6320	35	36	-
Trichlorofluoromethane (F-11)	1420	13	36	-
1,1,2,2-Tetrachloroethane	1300	6	35	-
1,4-Dichlorobenzene	588	5	35	-
Chloroform (trichloromethane)	327*	2	35	-
trans-1,2-Dichloroethene	267*	0	32	-
Toluene	2060	26	-	-
Ethylbenzene	5330	25	-	-
Xylene, m/p-	10100	47	-	-
Xylene, o-	2070	19	-	-
TPH-aliphatic EC5-EC6	62200	28	-	-

Compound	Max. µg/m ³	No. > LOD	Toxicity Score (P1-149)	Odour Score (P1-149)
TPH-aliphatic EC6-EC8	50200	27	-	-
TPH-aliphatic EC8-EC10	71600	25	-	-
TPH-aliphatic EC10-EC12	22100	19	-	-
TPH-aromatic EC5-EC7	472*	8	-	-
TPH-aromatic EC7-EC8	642*	10	-	-
TPH -aromatic EC8-EC10	5220*	12	-	-
TPH-aromatic EC10-EC12	8910*	0	-	-

- No toxicity/odour score
- * highest LOD used

Appendix F F2 Gas Monitoring Data - Wigmore Valley Park

Well ID	Location	Strata	Response Zone	Date	Peak CH4 (%/v)	Peak CO2 (%/v)	Min O2 (%/v)	Peak H2S (ppm)	Peak CO (ppm)	Peak PID (ppm)	Peak Flow (l/hr)	Water Level (mbgl)	Atmos Pressure (mBar)	Gas Screening Value - GSV (l/hr)		Characteristic Situation		Maximum (Worst Case)			Worst Case GSV		Worst Case CS	
														CH4	CO2	CH4	CO2	CH4 (%)	CO2 (%)	Flow (l/hr)	CH4	CO2	CH4	CO2
PFWS58A	Area A - Landfill	Landfill	0.8-2.3	13/08/2018	0.3	4.1	16.6	0	1	0.4	<0.1	DRY	993	0.0003	0.0041	CS1	CS1	2	4.9	0.1	0.002	0.0049	CS2	CS1
PFWS58A				22/08/2018	1.7	4.9	15.6	0	1	2.3	0.1	DRY	1002	0.0017	0.0049	CS2	CS1							
PFWS58A				04/09/2018	2	4.7	13.8	0	0	3.9	<0.1	DRY	1006	0.002	0.0047	CS2	CS1							
PFWS58A				18/09/2018	0.6	4.2	17.4	0	0	0.7	-0.1	DRY	992	-0.0006	-0.0042	CS1	CS1							
PFWS58A				01/10/2018	0.6	4.6	17.8	0	0	0	<0.1	DRY	1011	0.0006	0.0046	CS1	CS1							
PFWS58A				16/10/2018	0.1	3.1	18.2	0	0	0	<0.1	DRY	1000	0.0001	0.0031	CS1	CS1							
BWS212	Area A - Landfill	Waste	0.5-4.5	13/08/2018	14.8	7.4	0.2	2	3	2.7	<0.1	DRY	993	0.0148	0.0074	CS2	CS2	48.1	16	0.3	0.1443	0.048	CS2	CS2
BWS212				22/08/2018	13.4	8.7	0.1	2	2	0	<0.1	DRY	1002	0.0134	0.0087	CS2	CS2							
BWS212				04/09/2018	48.1	16	1.1	0	1	3.2	<0.1	DRY	1006	0.0481	0.016	CS2	CS2							
BWS212				18/09/2018	16.9	10.2	0.2	0	1	1.3	<0.1	DRY	991	0.0169	0.0102	CS2	CS2							
BWS212				03/10/2018	9	14.1	0.2	0	1	1.7	<0.1	DRY	1012	0.009	0.0141	CS2	CS2							
BWS212				16/10/2018	13.8	9.2	0.1	0	2	0	0.3	DRY	999	0.0414	0.0276	CS2	CS2							
BWS215	Area A - Landfill	Waste	0.5-4.1	14/08/2018	0.1	3.9	18.2	0	1	80.1	-0.1	DRY	1002	-0.0001	-0.0039	CS1	CS1	5	5.2	0.1	0.005	0.0052	CS2	CS2
BWS215				24/08/2018	0.6	5.2	16.3	0	1	13.4	<0.1	DRY	1000	0.0006	0.0052	CS1	CS2							
BWS215				03/09/2018	0.5	4	17	0	1	29.5	0.1	DRY	1005	0.0005	0.004	CS1	CS1							
BWS215				18/09/2018	5	5	14	0	1	31.6	<0.1	DRY	993	0.005	0.005	CS2	CS2							
BWS215				02/10/2018	0.4	2.3	20.1	0	0	7.5	<0.1	DRY	1012	0.0004	0.0023	CS1	CS1							
BWS215				16/10/2018	0.1	3	19	0	1	6.9	<0.1	DRY	1001	0.0001	0.003	CS1	CS1							
BWS216	Area A - Landfill	Landfill	0.5-5.0	14/08/2018	0.1	8	13.7	0	1	95.6	<0.1	DRY	1001	0.0001	0.008	CS1	CS2	0.8	11.9	0.1	0.0008	0.0119	CS1	CS2
BWS216				24/08/2018	0.5	8.5	13.7	0	1	97.2	<0.1	DRY	1000	0.0005	0.0085	CS1	CS2							
BWS216				04/09/2018	0.6	4.8	17.4	0	1	48.8	<0.1	DRY	1006	0.0006	0.0048	CS1	CS1							
BWS216				18/09/2018	0.8	11.9	8.2	0	1	84	<0.1	DRY	993	0.0008	0.0119	CS1	CS2							
BWS216				03/10/2018	0.4	4.7	17.6	0	0	25	0.1	DRY	1012	0.0004	0.0047	CS1	CS1							
BWS216				18/10/2018	0.5	5.1	16.4	0	0	14.7	<0.1	DRY	1012	0.0005	0.0051	CS1	CS2							
WS201	Area A - Landfill	Waste	0.5-3.5	13/08/2018	0.2	9.4	7	0	2	10.1	<0.1	DRY	992	0.0002	0.0094	CS1	CS2	0.8	9.4	0.2	0.0016	0.0188	CS1	CS2
WS201				22/08/2018	0.8	8	10	0	3	4.9	0.2	DRY	1001	0.0016	0.016	CS1	CS2							
WS201				03/09/2018	0.4	9	11.4	0	0	0	<0.1	DRY	1006	0.0004	0.009	CS1	CS2							
WS201				17/09/2018	0.4	6.3	12.4	0	1	5.5	<0.1	DRY	1001	0.0004	0.0063	CS1	CS2							
WS201				01/10/2018	0.5	0.9	19.2	0	0	0	-0.1	DRY	1012	-0.0005	-0.0009	CS1	CS1							
WS201				15/10/2018	0.4	8.3	10.9	0	0	7	0.1	DRY	995	0.0004	0.0083	CS1	CS2							
WS203	Area A - Landfill	Waste	0.5-5.0	14/08/2018	45.7	24.6	1.7	1	9	5.4	-0.1	DRY	1001	-0.0457	-0.0246	CS2	CS2	54.9	30.3	0.1	0.0549	0.0303	CS2	CS2
WS203				23/08/2018	51.9	27.8	1.7	0	3	0.1	<0.1	DRY	997	0.0519	0.0278	CS2	CS2							
WS203				04/09/2018	54.9	29.1	0.2	1	3	4.4	<0.1	DRY	1006	0.0549	0.0291	CS2	CS2							
WS203				17/09/2018	53.7	28.5	0.3	2	5	1.5	<0.1	DRY	1000	0.0537	0.0285	CS2	CS2							
WS203				01/10/2018	47.7	30.3	0.2	0	3	2.7	<0.1	DRY	1010	0.0477	0.0303	CS2	CS2							
WS203				15/10/2018	44.5	28	8	0	1	0	<0.1	DRY	996	0.0445	0.028	CS2	CS2							
WS204	Area A - Landfill	Waste	0.5-4.8	13/08/2018	40	13.7	0	0	3	6.9	-0.1	DRY	992	-0.04	-0.0137	CS2	CS2	48.3	15.7	0.1	0.0483	0.0157	CS2	CS2
WS204				22/08/2018	48.3	15.1	0.1	0	2	0	0.1	DRY	1001	0.0483	0.0151	CS2	CS2							
WS204				04/09/2018	47.4	15.3	0.2	0	1	5.2	<0.1	DRY	1006	0.0474	0.0153	CS2	CS2							
WS204				17/09/2018	47.7	15.7	0.2	0	1	0	<0.1	DRY	1000	0.0477	0.0157	CS2	CS2							
WS204				02/10/2018	4.4	5.6	16	0	1	3.9	<0.1	DRY	1004	0.0044	0.0056	CS2	CS2							
WS204				15/10/2018	23.2	15.6	3.6	0	0	0	<0.1	DRY	997	0.0232	0.0156	CS2	CS2							
WS205A	Area A - Landfill	Waste	1.0-5.0	14/08/2018	17.6	8.6	16.3	0	6	17.6	<0.1	DRY	1001	0.0176	0.0086	CS2	CS2	64.5	48.3	0.1	0.0645	0.0483	CS2	CS2
WS205A				23/08/2018	56.8	24.3	0.6	0	6	0	<0.1	DRY	998	0.0568	0.0243	CS2	CS2							
WS205A				04/09/2018	48	27	4.5	0	7	4.7	<0.1	DRY	1005	0.048	0.027	CS2	CS2							
WS205A				17/09/2018	56.9	27.2	0.2	0	16	5.2	<0.1	DRY	997	0.0569	0.0272	CS2	CS2							
WS205A				02/10/2018	64.5	48.3	0.1	3	0	5.3	<0.1	DRY	1003	0.0645	0.0483	CS2	CS2							
WS205A				15/10/2018	38.6	24	4.7	0	1	0	<0.1	DRY	996	0.0386	0.024	CS2	CS2							
WS206A	Area A - Landfill	Waste	1.0-5.0	14/08/2018	59.7	26.6	0.4	0	6	-	<0.1	DRY	1001	0.0597	0.0266	CS2	CS2	69.6	29.6	0.1	0.0696	0.0296	CS2	CS2
WS206A				24/08/2018	69.6	29.4	0	0	3	1.8	<0.1	DRY	999	0.0696	0.0294	CS2	CS2							
WS206A				04/09/2018	68.7	29.5	0.2	0	3	5.7	0.1	DRY	1006	0.0687	0.0295	CS2	CS2							
WS206A				17/09/2018	68.8	29.4	0.2	0	3	1.9	<0.1	DRY	999	0.0688	0.0294	CS2	CS2							
WS206A				03/10/2018	62.5	29.6	0.3	0	1	0	<0.1	DRY	1011	0.0625	0.0296	CS2	CS2							
WS206A				15/10/2018	61.2	29.1	1	0	2	0	<0.1	DRY	996	0.0612	0.0291	CS2	CS2							
WS207	Area A - Landfill	Waste	1.0-5.0	15/08/2018	14.7	10.2	0.1	0	6	10.7	<0.1	DRY	1001	0.0147	0.0102	CS2	CS2	40.6	19	0.1	0.0406	0.019	CS2	CS2
WS207				22/08/2018	28.5	17.2	0.3	0	6	0.5	<0.1	DRY	1001	0.0285	0.0172	CS2	CS2							
WS207				04/09/2018	29.3	11.5	15.2	0	1	0.9	-0.1	DRY	1006	-0.0293	-0.0115	CS2	CS2							
WS207				17/09/2018	40.6	19	0.3	0	2	0	<0.1	DRY	1000	0.0406	0.019	CS2	CS2							
WS207				02/10/2018	8.3	8.1	12.7	0	1	2.2	0.1	DRY	1004	0.0083	0.0081	CS2	CS2							
WS207				15/10/2018	2.7	2.2	16.3	0	0	0	<0.1	DRY	996	0.0027	0.0022	CS2	CS1							
WS208	Area A - Landfill	Waste	1.0-3.9	14/08/2018	58.6	17.8	9.3	0	16	0.1	<0.1	DRY	1001	0.0586	0.0178	CS2	CS2	65.2	30	0.1	0.0652	0.03	CS2	CS2
WS208				23/08/2018	45.5	24.7	4.4	0	6	4.2	<0.1	DRY	998	0.0455	0.0247	CS2	CS2							
WS208				05/09/2018	43.1	24.8	4.1	0	4	2.7	-0.1	DRY	1007	-0.0431	-0.0248	CS2	CS2							
WS208				17/09/2018	65.2	30	0.2	0	14	7.2	<0.1	DRY	997	0.0652	0.03	CS2	CS2							
WS208				02/10/2018	47.7	27.3	5.7	0	2	0	<0.1	DRY	1004	0.0477	0.0273	CS2	CS2							
WS208				16/10/2018	46	27.2	1	0	2	0	0.1	DRY	999	0.046	0.0272	CS2	CS2							
WS209	Area A - Landfill	Waste	1.0-5.0	14/08/2018	0.5	1.3	19.8	0	3	23.2	-0.1	DRY	1001	-0.0005	-0.0013	CS1	CS1	59	34.3	0.1	0.059	0.0343	CS2	CS2
WS209				23/08/2018	59	27	0.1	0	3	4	-0.1	DRY	997	-0.059	-0.027	CS2	CS2							
WS209				03/09/2018	56.8	26.4																		

Appendix F F2 Gas Monitoring Data - Wigmore Valley Park

Well ID	Location	Strata	Response Zone	Date	Peak CH4 (%/v)	Peak CO2 (%/v)	Min O2 (%/v)	Peak H2S (ppm)	Peak CO (ppm)	Peak PID (ppm)	Peak Flow (l/hr)	Water Level (mbgl)	Atmos Pressure (mBar)	Gas Screening Value - GSV (l/hr)		Characteristic Situation		Maximum (Worst Case)			Worst Case GSV		Worst Case CS	
														CH4	CO2	CH4	CO2	CH4 (%)	CO2 (%)	Flow (l/hr)	CH4	CO2	CH4	CO2
WS209				01/10/2018	41.3	23.7	1.2	0	18	1.5	<0.1	DRY	1011	0.0413	0.0237	CS2	CS2							
WS209				15/10/2018	57.7	34.3	7.8	0	2	0	0.1	4.81	996	0.0577	0.0343	CS2	CS2							
WS210	Area A - Landfill	Waste	2.0-5.0	14/08/2018	64.5	23.9	3.5	0	4	17.2	-0.1	DRY	1001	-0.0645	-0.0239	CS2	CS2	64.5	25	0.1	0.0645	0.025	CS2	CS2
WS210				23/08/2018	51.4	23.9	0.1	0	4	1.4	-0.1	4.73	1011	-0.0514	-0.0239	CS2	CS2							
WS210				03/09/2018	43.5	22.6	0.2	0	7	4.1	<0.1	4.72	1006	0.0435	0.0226	CS2	CS2							
WS210				17/09/2018	56.9	24.4	0.1	2	5	3.7	<0.1	DRY	998	0.0569	0.0244	CS2	CS2							
WS210				01/10/2018	1.8	11.9	9.3	0	1	3.6	<0.1	4.73	1011	0.0018	0.0119	CS2	CS2							
WS210				15/10/2018	30	25	0.1	0	1	0	<0.1	4.745	997	0.03	0.025	CS2	CS2							
WS211	Area A - Landfill	Waste	1.0-5.0	14/08/2018	<0.1	1.9	19.2	0	3	21.1	0.1	DRY	1001	0.0001	0.0019	CS1	CS1	37.4	20.3	0.1	0.0374	0.0203	CS2	CS2
WS211				23/08/2018	37.4	20.3	4.2	0	9	0	-0.1	DRY	997	-0.0374	-0.0203	CS2	CS2							
WS211				05/09/2018	9.8	7.3	13.6	0	3	1.7	<0.1	DRY	1006	0.0098	0.0073	CS2	CS2							
WS211				18/09/2018	18	11.3	13.4	0	3	1.9	<0.1	DRY	994	0.018	0.0113	CS2	CS2							
WS211				01/10/2018	3.5	2.5	14.3	0	4	4.3	<0.1	DRY	1011	0.0035	0.0025	CS2	CS1							
WS211				15/10/2018	15.1	11.1	18.4	0	0	0	<0.1	DRY	997	0.0151	0.0111	CS2	CS2							
WS212	Area A - Landfill	Waste	1.0-5.0	14/08/2018	51.4	25.3	0.6	3	4	2.4	-0.1	DRY	1001	-0.0514	-0.0253	CS2	CS2	73.7	32.2	0.1	0.0737	0.0322	CS2	CS2
WS212				23/08/2018	73.1	28.1	0.3	3	4	0	0.1	DRY	997	0.0731	0.0281	CS2	CS2							
WS212				05/09/2018	73.7	32.2	0.2	5	1	10.7	-0.1	4.945	1006	-0.0737	-0.0322	CS2	CS2							
WS212				18/09/2018	60.6	24.1	0.4	2	3	6.2	<0.1	4.95	994	0.0606	0.0241	CS2	CS2							
WS212				02/10/2018	62.3	24	0.2	1	1	1.6	<0.1	4.96	1004	0.0623	0.024	CS2	CS2							
WS212				16/10/2018	60.2	23.2	0.1	7	2	0	<0.1	4.985	999	0.0602	0.0232	CS2	CS2							
WS213	Area A - Landfill	Waste	0.5-2.75	14/08/2018	51.7	21.5	7.2	0	25	0	<0.1	DRY	1001	0.0517	0.0215	CS2	CS2	56.2	27.3	0.1	0.0562	0.0273	CS2	CS2
WS213				22/08/2018	56.2	27.3	0.5	0	4	0.2	<0.1	DRY	1002	0.0562	0.0273	CS2	CS2							
WS213				04/09/2018	12.8	10.9	14.4	0	0	0	-0.1	DRY	1005	-0.0128	-0.0109	CS2	CS2							
WS213				18/09/2018	3.2	2.2	19.4	0	1	16	-0.1	DRY	994	-0.0032	-0.0022	CS2	CS1							
WS213				01/10/2018	19.7	11.9	2.6	0	2	3.5	-0.1	DRY	1011	-0.0197	-0.0119	CS2	CS2							
WS213				18/10/2018	0.1	0.9	20.8	0	0	0.5	<0.1	DRY	1011	0.0001	0.0009	CS1	CS1							
WS215A	Area A - Landfill	Waste	0.5-5.0	14/08/2018	<0.1	0.8	19.6	0	1	7.8	-0.1	DRY	1001	0.0001	-0.0008	CS1	CS1	37	21.8	0.1	0.037	0.0218	CS2	CS2
WS215A				23/08/2018	37	21.8	0.2	0	6	19.8	<0.1	DRY	997	0.037	0.0218	CS2	CS2							
WS215A				04/09/2018	25.2	13.1	15.3	0	0	3.2	-0.1	DRY	1006	-0.0252	-0.0131	CS2	CS2							
WS215A				18/09/2018	4.2	3.3	16.7	0	1	3.1	<0.1	5.01	994	0.0042	0.0033	CS2	CS1							
WS215A				03/10/2018	0.8	1.9	19.3	0	0	1.2	-0.1	5.02	1011	-0.0008	-0.0019	CS1	CS1							
WS215A				18/10/2018	2.3	2.7	19.7	0	0	0	<0.1	5.02	1011	0.0023	0.0027	CS2	CS1							
WS216	Area A - Landfill	Waste	1.0-5.0	14/08/2018	23.1	16.9	5.8	0	3	0	<0.1	DRY	1000	0.0231	0.0169	CS2	CS2	37.3	22.7	0.1	0.0373	0.0227	CS2	CS2
WS216				23/08/2018	37.3	22.2	0	0	3	31.2	-0.1	DRY	997	-0.0373	-0.0222	CS2	CS2							
WS216				03/09/2018	37.1	22.4	0.2	0	2	6.4	0.1	DRY	1005	0.0371	0.0224	CS2	CS2							
WS216				18/09/2018	34.7	22.5	1.4	0	2	3.8	-0.1	DRY	992	-0.0347	-0.0225	CS2	CS2							
WS216				02/10/2018	35.6	22.7	0.1	0	1	1.8	0.1	DRY	1004	0.0356	0.0227	CS2	CS2							
WS216				16/10/2018	33.7	22.6	0.1	1	4	0	<0.1	4.975	1000	0.0337	0.0226	CS2	CS2							
WS217B	Area A - Landfill	Waste	1.0-4.5	14/08/2018	0.2	5.6	16.9	0	0	62.4	-0.1	DRY	1001	-0.0002	-0.0056	CS1	CS2	0.9	6.6	0.1	0.0009	0.0066	CS1	CS2
WS217B				24/08/2018	0.4	5.3	15.7	0	1	0	<0.1	DRY	999	0.0004	0.0053	CS1	CS2							
WS217B				03/09/2018	0.6	3.9	16.9	0	1	68.8	<0.1	DRY	1005	0.0006	0.0039	CS1	CS1							
WS217B				18/09/2018	0.8	6.6	12.5	0	1	33.6	-0.1	DRY	994	-0.0008	-0.0066	CS1	CS2							
WS217B				02/10/2018	0.9	2.6	19.1	0	0	22.7	<0.1	DRY	1005	0.0009	0.0026	CS1	CS1							
WS217B				16/10/2018	0.2	3.7	17.8	0	1	9	<0.1	DRY	1000	0.0002	0.0037	CS1	CS1							
WS218	Area A - Landfill	Waste	0.5-4.8	14/08/2018	52.3	23.6	4	0	2	31.5	<0.1	DRY	1001	0.0523	0.0236	CS2	CS2	52.3	23.6	0.1	0.0523	0.0236	CS2	CS2
WS218				23/08/2018	0.6	2.9	17.1	0	2	78	<0.1	DRY	997	0.0006	0.0029	CS1	CS1							
WS218				04/09/2018	8.4	9.5	19	0	0	3	<0.1	4.795	1006	0.0084	0.0095	CS2	CS2							
WS218				18/09/2018	0.6	2.2	20.2	0	2	19.4	<0.1	4.79	994	0.0006	0.0022	CS1	CS1							
WS218				01/10/2018	0.3	11.6	3.7	0	1	5.2	<0.1	4.79	1011	0.0003	0.0116	CS1	CS2							
WS218				16/10/2018	28.2	14.1	15.2	0	0	0	<0.1	4.79	999	0.0282	0.0141	CS2	CS2							
WS219	Area A - Landfill	Waste	0.5-2.4	14/08/2018	14.2	4.6	16.1	0	2	1.7	-0.1	DRY	1001	-0.0142	-0.0046	CS2	CS1	53.6	25.9	0.1	0.0536	0.0259	CS2	CS2
WS219				22/08/2018	53.6	25.9	0.3	0	6	0.4	-0.1	DRY	1001	-0.0536	-0.0259	CS2	CS2							
WS219				04/09/2018	25.3	13	10.4	0	1	0	-0.1	DRY	1005	-0.0253	-0.013	CS2	CS2							
WS219				18/09/2018	0.5	0.6	20	0	1	3.2	<0.1	DRY	993	0.0005	0.0006	CS1	CS1							
WS219				03/10/2018	40.5	22	1.1	0	4	0	-0.1	2.25	1011	-0.0405	-0.022	CS2	CS2							
WS219				18/10/2018	3.9	3.6	17.3	0	0	0	<0.1	DRY	1011	0.0039	0.0036	CS2	CS1							
WS221	Area A - Landfill	Waste	0.5-5.0	14/08/2018	20.9	7.4	7.8	0	13	12.9	0.1	DRY	1001	0.0209	0.0074	CS2	CS2	38.6	13	0.1	0.0386	0.013	CS2	CS2
WS221				23/08/2018	38.6	12.6	0	0	3	3.8	<0.1	DRY	997	0.0386	0.0126	CS2	CS2							
WS221				03/09/2018	35.9	13	0.2	0	3	20.3	0.1	DRY	1004	0.0359	0.013	CS2	CS2							
WS221				18/09/2018	0.5	10.4	16.3	0	1	7.9	-0.1	DRY	994	-0.0005	-0.0104	CS1	CS2							
WS221				03/10/2018	19.1	8.5	3.5	0	4	0	-0.1	DRY	1013	-0.0191	-0.0085	CS2	CS2							
WS221				18/10/2018	1.3	1.5	19.6	0	0	6.6	<0.1	DRY	1011	0.0013	0.0015	CS2	CS1							
BH233	Area A - Landfill	Waste	1.0-13.0	13/08/2018	11.3	13.8	3.2	0	4	21.1	<0.1	DRY	992	0.0113	0.0138	CS2	CS2	16.6	18.6	0.1	0.0166	0.0186	CS2	CS2
BH233				22/08/2018	15.5	18.6	1.1	0	5	2	0.1	13.005	1002	0.0155	0.0186	CS2	CS2							
BH233				04/09/2018	5.3	6.8	12.9	0	2	5.5	-0.1	13.03	1005	-0.0053	-0.0068	CS2	CS2							
BH233				17/09/2018	14	7.2	13.9	0	0	24.2	<0.1	13.015	1000	0.014	0.0072	CS2	CS2							
BH233				01/10/2018	0.6	4.8	17.4	0	0	0	<0.1	13.02	1011	0.0006	0.0048	CS1	CS1							
BH233				15/10/2018	16.6	11.9	4.8	0	0	17.3	<0.1	13.045	994	0.0166	0.011									

Appendix F F2 Gas Monitoring Data - Wigmore Valley Park

Well ID	Location	Strata	Response Zone	Date	Peak CH4 (%v)	Peak CO2 (%v)	Min O2 (%v)	Peak H2S (ppm)	Peak CO (ppm)	Peak PID (ppm)	Peak Flow (l/hr)	Water Level (m bgl)	Atmos Pressure (mBar)	Gas Screening Value - GSV (l/hr)		Characteristic Situation		Maximum (Worst Case)			Worst Case GSV		Worst Case CS	
														CH4	CO2	CH4	CO2	CH4 (%)	CO2 (%)	Flow (l/hr)	CH4	CO2	CH4	CO2
BH219	Landfill			24/08/2018	24.4	22.4	0.1	3	1	0	-0.1	17.125	998	-0.0244	-0.0224	CS2	CS2	29.3	18.7	0.1	0.0293	0.0187	CS2	CS2
BH219				04/09/2018	21.7	21.6	0.2	3	2	2.7	-0.1	17.17	1007	-0.0217	-0.0216	CS2	CS2							
BH219				18/09/2018	26.6	21.6	0.1	0	2	11	-0.1	17.15	993	-0.0266	-0.0216	CS2	CS2							
BH219				03/10/2018	0.9	17.7	5.2	0	0	0	-0.1	17.16	1012	-0.0009	-0.0177	CS1	CS2							
BH219				16/10/2018	13.2	20.2	0.1	6	3	0	<0.1	17.13	1001	0.0132	0.0202	CS2	CS2							
BH221	Area A - Landfill	Waste	0.5-10.0	14/08/2018	21.2	15.7	12.8	0	2	78.3	<0.1	DRY	1001	0.0212	0.0157	CS2	CS2	29.3	18.7	0.1	0.0293	0.0187	CS2	CS2
BH221				24/08/2018	0.4	6	15.3	0	2	2.3	-0.1	9.505	999	-0.0004	-0.006	CS1	CS2							
BH221				03/09/2018	29.3	18.7	12.1	0	2	4.9	0.1	9.52	1004	0.0293	0.0187	CS2	CS2							
BH221				18/09/2018	0.5	6.9	14.3	0	1	119.6	<0.1	9.51	994	0.0005	0.0069	CS1	CS2							
BH221				02/10/2018	0.4	4.2	17.2	0	0	73.6	<0.1	9.49	1005	0.0004	0.0042	CS1	CS1							
BH221				16/10/2018	6	5.8	14.6	0	1	13.3	<0.1	9.515	1000	0.006	0.0058	CS2	CS2							
BH226	Area A - Landfill	Waste	1.0-10.0	14/08/2018	<0.1	3.5	19.2	0	1	17.1	-0.1	DRY	1001	-0.0001	-0.0035	CS1	CS1	14.9	17.1	0.1	0.0149	0.0171	CS2	CS2
BH226				24/08/2018	6	6.8	13.6	0	0	3.2	0.1	10	999	0.006	0.0068	CS2	CS2							
BH226				04/09/2018	14.9	17.1	12.9	0	1	51.9	-0.1	10.03	1006	-0.0149	-0.0171	CS2	CS2							
BH226				18/09/2018	2	7.4	17.2	0	2	39.1	-0.1	10.02	994	-0.002	-0.0074	CS2	CS2							
BH226				03/10/2018	0.5	3.2	16.3	0	0	20.6	<0.1	9.1	1012	0.0005	0.0032	CS1	CS1							
BH226				16/10/2018	1	4.2	15.1	0	2	6.7	<0.1	9.9	1000	0.001	0.0042	CS2	CS1							
BH225	Area A - Landfill	Waste	1.0-11.5	14/08/2018	0.3	4.5	18	0	4	38.7	-0.2	DRY	1000	-0.0006	-0.009	CS1	CS1	26.3	18.9	-0.2	-0.0526	-0.0378	CS2	CS2
BH225				23/08/2018	26.3	18.9	0.2	0	11	0.4	-0.1	DRY	997	-0.0263	-0.0189	CS2	CS2							
BH225				03/09/2018	2.2	8.2	12.6	0	15	53.3	<0.1	DRY	1004	0.0022	0.0082	CS2	CS2							
BH225				18/09/2018	11.6	14	7.8	0	3	51.8	<0.1	11.56	993	0.0116	0.014	CS2	CS2							
BH225				02/10/2018	2.1	6.3	13.6	0	1	21.2	0.1	11.52	1004	0.0021	0.0063	CS2	CS2							
BH225				16/10/2018	1.3	4.5	14.6	0	12	23.7	<0.1	11.47	999	0.0013	0.0045	CS2	CS1							
BH229	Area A - Landfill	Waste	1.0-12.0	14/08/2018	0.2	4.3	19.5	0	1	19.3	0.1	DRY	1000	0.0002	0.0043	CS1	CS1	43.9	27.3	0.1	0.0439	0.0273	CS2	CS2
BH229				23/08/2018	12.4	9.3	8.6	0	4	54.7	<0.1	11.36	997	0.0124	0.0093	CS2	CS2							
BH229				03/09/2018	13.2	16.9	6.1	0	3	13.5	<0.1	11.38	1004	0.0132	0.0169	CS2	CS2							
BH229				18/09/2018	9.6	13.6	17.1	0	1	20	<0.1	11.37	993	0.0096	0.0136	CS2	CS2							
BH229				03/10/2018	43.9	27.3	1.9	0	3	0	<0.1	11.37	1011	0.0439	0.0273	CS2	CS2							
BH229				18/10/2018	0.1	0.5	19.9	0	0	5.3	-0.1	11.365	1011	-0.0001	-0.0005	CS1	CS1							
BH224	Area A - Landfill	Waste	1.0-8.0	14/08/2018	0.2	0.7	20	0	1	5.3	-0.1	DRY	1001	-0.0002	-0.0007	CS1	CS1	0.2	0.7	-0.1	-0.0002	-0.0007	CS1	CS1
BH218	Area A - Landfill	Waste	1.0-12.0	14/08/2018	1.9	15	11	0	1	37.5	<0.1	DRY	1001	0.0019	0.015	CS2	CS2	68	28.6	0.1	0.068	0.0286	CS2	CS2
BH218				23/08/2018	68	28.6	0.4	0	5	0.4	0.1	11.845	997	0.068	0.0286	CS2	CS2							
BH218				05/09/2018	66.3	28.5	1	0	2	2.8	-0.1	11.81	1006	-0.0663	-0.0285	CS2	CS2							
BH218				18/09/2018	37.3	15.7	10.8	0	3	4.4	<0.1	11.87	994	0.0373	0.0157	CS2	CS2							
BH218				02/10/2018	50.5	25.4	3.4	0	2	5.1	<0.1	12.245	1004	0.0505	0.0254	CS2	CS2							
BH218				16/10/2018	61.7	28.4	0.4	0	2	0	0.1	12.155	999	0.0617	0.0284	CS2	CS2							
BH214	Area A - Landfill	Waste	1.5-19.0	14/08/2018	1.4	1.7	19	0	3	2.3	-0.1	18.36	1001	-0.0014	-0.0017	CS2	CS1	41.6	33.4	0.1	0.0416	0.0334	CS2	CS2
BH214				23/08/2018	37.7	33.4	1.3	0	4	3.9	<0.1	18.405	998	0.0377	0.0334	CS2	CS2							
BH214				03/09/2018	41.6	24	0.5	0	9	2.2	0.1	18.37	1005	0.0416	0.024	CS2	CS2							
BH214				17/09/2018	36.1	20.7	0.2	0	8	0.3	<0.1	18.545	998	0.0361	0.0207	CS2	CS2							
BH214				01/10/2018	23	19.4	1.8	0	2	2	<0.1	18.455	1011	0.023	0.0194	CS2	CS2							
BH214				15/10/2018	31.9	22.3	1.3	0	1	0	<0.1	18.5	996	0.0319	0.0223	CS2	CS2							
BH205A	Area A - Landfill	Waste	1.0-5.5	14/08/2018	55.4	29.5	0.2	0	7	3.6	<0.1	DRY	1001	0.0554	0.0295	CS2	CS2	57.7	32.2	0.1	0.0577	0.0322	CS2	CS2
BH205A				23/08/2018	57.7	31.5	0.1	4	2	8.9	<0.1	5.505	997	0.0577	0.0315	CS2	CS2							
BH205A				03/09/2018	54.6	32	0.3	1	4	6	<0.1	cm mud at bas	1005	0.0546	0.032	CS2	CS2							
BH205A				17/09/2018	56.2	32.2	0.1	2	4	2.6	<0.1	5.535	999	0.0562	0.0322	CS2	CS2							
BH205A				01/10/2018	43.1	28.8	1.6	0	6	2.2	<0.1	DRY	1010	0.0431	0.0288	CS2	CS2							
BH205A				15/10/2018	51.1	31.5	0.1	0	2	0	<0.1	5.53	996	0.0511	0.0315	CS2	CS2							
BH203	Area A - Landfill	Waste	1.0-11.5	14/08/2018	0.4	1.2	20.7	0	2	16.2	<0.1	DRY	1001	0.0004	0.0012	CS1	CS1	45.7	21.2	0.1	0.0457	0.0212	CS2	CS2
BH203				24/08/2018	22.1	11.3	13.2	0	2	1.8	<0.1	DRY	999	0.0221	0.0113	CS2	CS2							
BH203				04/09/2018	10.4	6.7	13.1	0	1	23.2	-0.1	11.57	1006	-0.0104	-0.0067	CS2	CS2							
BH203				17/09/2018	45.7	21.2	4	0	12	12.2	<0.1	DRY	996	0.0457	0.0212	CS2	CS2							
BH203				02/10/2018	0.5	0.9	20.4	0	0	0.2	0.1	11.555	1011	0.0005	0.0009	CS1	CS1							
BH203				15/10/2018	17.2	15	17.2	0	0	0	<0.1	11.575	996	0.0172	0.015	CS2	CS2							
BH208	Area A - Landfill	Waste	1.0-11.0	14/08/2018	64.4	24.9	0.4	4	7	-	-0.1	DRY	1001	-0.0644	-0.0249	CS2	CS2	64.4	24.9	-0.1	-0.0644	-0.0249	CS2	CS2
BH213	Area A - Landfill	Waste	1.0-17.5	14/08/2018	9.3	16.1	10.3	0	3	25.7	-0.1	16.56	1001	-0.0093	-0.0161	CS2	CS2	59	24.7	0.1	0.059	0.0247	CS2	CS2
BH213				24/08/2018	33.4	20.2	2.5	0	2	3	-0.1	16.9	999	-0.0334	-0.0202	CS2	CS2							
BH213				05/09/2018	50.5	22.3	1.3	0	2	3.2	<0.1	17.03	1006	0.0505	0.0223	CS2	CS2							
BH213				17/09/2018	48.6	20.8	0.2	0	14	1.7	<0.1	14.045	997	0.0486	0.0208	CS2	CS2							
BH213				03/10/2018	59	19.8	13.9	0	0	0	<0.1	17.24	1011	0.059	0.0198	CS2	CS2							
BH213				15/10/2018	27.1	24.7	12.3	0	0	1.1	-0.1	17.24	997	-0.0271	-0.0247	CS2	CS2							
BH212	Area A - Landfill	Clay	20.5-29.0	14/08/2018	9.8	4.9	18.7	0	3	9.7	<0.1	DRY	1001	0.0098	0.0049	CS2	CS1	27.9	19.5	0.1	0.0279	0.0195	CS2	CS2
BH212				23/08/2018	22.8	15.5	16.5	0	1	5.8	<0.1	28.755	998	0.0228	0.0155	CS2	CS2							
BH212				05/09/2018	27.9	19.5	16.1	0	0	1.2	-0.1	cm mud at ba	1006	-0.0279	-0.0195	CS2	CS2							
BH212				17/09/2018	0.7	0.7	19.7	0	2	7.2	-0.1	28.85	997	-0.0007	-0.0007	CS1	CS1							
BH212				01/10/2018	9	14.1	0.2	0	1	0	<0.1	29.04	1012	0.009	0.0141	CS2	CS2							
BH212				15/10/2018	1	0.3	20.3	0	0	0	<													

Appendix F
F2 Gas Monitoring Data - Wigmore Valley Park

Well ID	Location	Strata	Response Zone	Date	Peak CH4 (%v)	Peak CO2 (%v)	Min O2 (%v)	Peak H2S (ppm)	Peak CO (ppm)	Peak PID (ppm)	Peak Flow (l/hr)	Water Level (mbgl)	Atmos Pressure (mBar)	Gas Screening Value - GSV (l/hr)		Characteristic Situation		Maximum (Worst Case)			Worst Case GSV		Worst Case CS	
														CH4	CO2	CH4	CO2	CH4 (%)	CO2 (%)	Flow (l/hr)	CH4	CO2	CH4	CO2
BH212A				05/09/2018	37.4	21.4	2.5	0	3	5	-0.1	cm mud at base	1006	-0.0374	-0.0214	CS2	CS2							
BH212A				17/09/2018	33.8	16	0.1	0	5	8.4	<0.1	DRY	997	0.0338	0.016	CS2	CS2							
BH212A				01/10/2018	36.4	29.6	5.3	0	2	5.5	<0.1	17.83	1011	0.0364	0.0296	CS2	CS2							
BH212A				15/10/2018	19.3	12.9	11.1	0	1	0	<0.1	17.83	997	0.0193	0.0129	CS2	CS2							
BH207	Area A - Landfill	Waste	3.0-18.0	14/08/2018	54.4	17.6	0.9	0	18	7.2	0.1	DRY	1001	0.0544	0.0176	CS2	CS2	74	25.2	0.1	0.074	0.0252	CS2	CS2
BH207				24/08/2018	68	20.6	0.2	0	2	4	<0.1	DRY	999	0.068	0.0206	CS2	CS2							
BH207				05/09/2018	74	24.7	0.3	0	2	4.2	-0.1	DRY	1007	-0.074	-0.0247	CS2	CS2							
BH207				17/09/2018	67.2	20.1	0.4	0	4	1.8	<0.1	DRY	997	0.0672	0.0201	CS2	CS2							
BH207				03/10/2018	65.4	20.9	0.6	0	1	1	-0.1	DRY	1011	-0.0654	-0.0209	CS2	CS2							
BH207				16/10/2018	61.5	25.2	0.1	0	2	0	<0.1	DRY	999	0.0615	0.0252	CS2	CS2							
BH209	Area A - Landfill	Waste	2.0-13.0	14/08/2018	50.7	22.5	1.4	0	10	6.8	<0.1	DRY	1002	0.0507	0.0225	CS2	CS2	68.9	47.6	0.1	0.0689	0.0476	CS2	CS2
BH209				23/08/2018	54.7	26.4	0.2	0	6	0	<0.1	12.355	997	0.0547	0.0264	CS2	CS2							
BH209				04/09/2018	57.4	28.6	0.7	0	4	3.2	<0.1	12.49	1006	0.0574	0.0286	CS2	CS2							
BH209				17/09/2018	68.9	25	0.2	0	8	2.8	<0.1	12.535	996	0.0689	0.025	CS2	CS2							
BH209				01/10/2018	43.9	27.3	1.9	0	3	0	<0.1	12.74	1011	0.0439	0.0273	CS2	CS2							
BH209				15/10/2018	49.4	47.6	0.9	0	2	0	0.1	12.775	996	0.0494	0.0476	CS2	CS2							
BH220	Area A - Landfill	Waste	0.5-9.0	14/08/2018	47	22.4	0.2	0	7	1	-0.1	DRY	1001	-0.047	-0.0224	CS2	CS2	56.4	27.6	0.1	0.0564	0.0276	CS2	CS2
BH220				24/08/2018	55	26.6	0.7	0	3	20.3	0.1	DRY	999	0.055	0.0266	CS2	CS2							
BH220				04/09/2018	56.4	27.6	0.2	0	4	63.6	<0.1	DRY	1006	0.0564	0.0276	CS2	CS2							
BH220				18/09/2018	21	13.8	10.6	0	3	2.3	-0.1	DRY	994	-0.021	-0.0138	CS2	CS2							
BH220				03/10/2018	42.1	24.5	0.4	0	2	2.4	<0.1	9.315	1012	0.0421	0.0245	CS2	CS2							
BH220				18/10/2018	0.2	0.3	21	0	0	0.7	-0.1	9.31	1011	-0.0002	-0.0003	CS1	CS1							
BH206	Area A - Landfill	Waste	1.0-8.0	14/08/2018	48.3	21.6	8.2	0	24	0	-0.2	7.11	1001	-0.0966	-0.0432	CS2	CS2	48.3	21.6	-0.2	-0.0966	-0.0432	CS2	CS2
BH204	Area A - Landfill	Waste	1.0-14.0	14/08/2018	46.7	17.7	0.3	0	9	-	-0.1	DRY	1001	-0.0467	-0.0177	CS2	CS2	50.7	20.5	-0.3	-0.1521	-0.0615	CS2	CS2
BH204				24/08/2018	46.3	20.5	0.4	0	3	6.6	0.1	13.785	998	0.0463	0.0205	CS2	CS2							
BH204				04/09/2018	50.5	20	0.7	0	3	6.9	<0.1	5cm mud at base	1006	0.0505	0.02	CS2	CS2							
BH204				17/09/2018	50.7	19.8	0.6	0	6	1.6	0.1	DRY	996	0.0507	0.0198	CS2	CS2							
BH204				03/10/2018	4.8	4.8	18.8	0	0	2.5	<0.1	13.91	1010	0.0048	0.0048	CS2	CS1							
BH204				15/10/2018	41.1	18.3	5	0	0	0.2	-0.3	13.9	994	-0.1233	-0.0549	CS2	CS2							
BH201	Area A - Landfill	Waste	1.0-6.0	15/08/2018	14.2	11.7	4.1	0	4	13	<0.1	DRY	1002	0.0142	0.0117	CS2	CS2	32.2	25.5	0.1	0.0322	0.0255	CS2	CS2
BH201				24/08/2018	24.5	25.5	1	0	6	0.7	-0.1	5.89	999	-0.0245	-0.0255	CS2	CS2							
BH201				04/09/2018	29.3	11.8	7.1	0	4	4.9	<0.1	5.9	1006	0.0293	0.0118	CS2	CS2							
BH201				18/09/2018	20.4	14.3	7.3	0	1	10.4	<0.1	5.875	991	0.0204	0.0143	CS2	CS2							
BH201				03/10/2018	32.2	21.7	13.5	0	0	0	<0.1	5.91	1011	0.0322	0.0217	CS2	CS2							
BH201				16/10/2018	14	6.6	5.2	0	2	0.7	<0.1	5.68	1000	0.014	0.0066	CS2	CS2							
GW201 (gas)	Off Site	Chalk	2.5-10.2	13/09/2018	0.5	5.2	15.5	0	0	0	0.1	-	1009	0.0005	0.0052	CS1	CS1	0.9	5.6	0.1	0.0009	0.0056	CS1	CS1
GW201 (gas)				18/09/2018	0.9	5.6	15.1	0	0	3.6	<0.1	-	991	0.0009	0.0056	CS1	CS1							
GW201 (gas)				01/10/2018	0.6	5.2	16.1	0	0	0	<0.1	-	1009	0.0006	0.0052	CS1	CS1							
GW201 (gas)				16/10/2018	0.1	5.3	15.1	0	0	0.2	<0.1	-	1001	0.0001	0.0053	CS1	CS1							
BWS202	Area B - WVP	Chalk	1.0-5.0	13/08/2018	0.3	4.4	18.9	0	2	0.4	-0.1	DRY	992	-0.0003	-0.0044	CS1	CS1	1	4.4	0.1	0.001	0.0044	CS1	CS1
BWS202				22/08/2018	1	1	19.9	0	1	2.7	0.1	DRY	1001	0.001	0.001	CS1	CS1							
BWS202				03/09/2018	0.5	1.2	19.5	0	0	0.3	<0.1	Gas clam	1006	0.0005	0.0012	CS1	CS1							
BBH204	Area B - WVP	Chalk	4.0-20.5	13/08/2018	0	1.3	19.8	0	1	63.3	<0.1	DRY	992	0	0.0013	CS1	CS1	0.5	3.6	0.2	0.001	0.0072	CS1	CS1
BBH204				22/08/2018	0.5	1.6	19.5	0	2	35.2	0.2	DRY	1001	0.001	0.0032	CS1	CS1							
BBH204				03/09/2018	0.5	2	19.1	0	0	0	-0.1	DRY	1006	-0.0005	-0.002	CS1	CS1							
BBH204				17/09/2018	0.5	0.2	20.8	0	1	0	<0.1	DRY	1001	0.0005	0.0002	CS1	CS1							
BBH204				01/10/2018	0.5	3.6	17.5	0	0	30.3	<0.1	DRY	1012	0.0005	0.0036	CS1	CS1							
BBH204				15/10/2018	0.5	2	19.3	0	0	0	<0.1	20.8	994	0.0005	0.002	CS1	CS1							
BWS206	Area B - WVP	CwF	0.5-3.5	13/08/2018	0	1	20.2	0	1	16.5	<0.1	DRY	992	0	0.001	CS1	CS1	0.5	3.2	0.2	0.001	0.0064	CS1	CS1
BWS206				22/08/2018	0.4	0.6	20.5	0	2	11.5	0.2	DRY	1001	0.0008	0.0012	CS1	CS1							
BWS206				03/09/2018	0.4	1.3	19.9	0	0	0	<0.1	DRY	1006	0.0004	0.0013	CS1	CS1							
BWS206				17/09/2018	0.4	0.3	20.7	0	1	8.2	<0.1	DRY	1001	0.0004	0.0003	CS1	CS1							
BWS206				01/10/2018	0.5	3.2	20	0	0	22.6	<0.1	DRY	1012	0.0005	0.0032	CS1	CS1							
BWS206				15/10/2018	0.5	1	20.6	0	0	0	<0.1	3.49	994	0.0005	0.001	CS1	CS1							
BWS207	Area B - WVP	Chalk	2.0-5.0	13/08/2018	0	1	20.3	0	1	23.8	-0.1	DRY	992	0	-0.001	CS1	CS1	0.5	1	0.2	0.001	0.002	CS1	CS1
BWS207				22/08/2018	0.4	0.4	20.5	0	2	14.2	0.2	DRY	1001	0.0008	0.0008	CS1	CS1							
BWS207				03/09/2018	0.4																			

Appendix F
F2 Gas Monitoring Data - Wigmore Valley Park

Well ID	Location	Strata	Response Zone	Date	Peak CH4 (%v/v)	Peak CO2 (%v/v)	Min O2 (%v/v)	Peak H2S (ppm)	Peak CO (ppm)	Peak PID (ppm)	Peak Flow (l/hr)	Water Level (mbgl)	Atmos Pressure (mBar)	Gas Screening Value - GSV (l/hr)		Characteristic Situation		Maximum (Worst Case)			Worst Case GSV		Worst Case CS	
														CH4	CO2	CH4	CO2	CH4 (%)	CO2 (%)	Flow (l/hr)	CH4	CO2	CH4	CO2
BWS214				18/09/2018	9.3	12.7	0.1	0	1	1.7	<0.1	DRY	995	0.0093	0.0127	CS2	CS2							
BWS214				02/10/2018	1	11.1	5.3	0	0	7.8	<0.1	DRY	1007	0.001	0.0111	CS2	CS2							
BWS214				16/10/2018	0.6	11.1	9.4	0	1	0	<0.1	DRY	1002	0.0006	0.0111	CS1	CS2							
BBH209		Chalk	3.0-20.5	14/08/2018	<0.1	0.1	20.5	0	2	57.3	<0.1	DRY	1002	0.0001	0.0001	CS1	CS1	27.7	20.5	0.1	0.0277	0.0205	CS2	CS2
BBH209				23/08/2018	14.3	6.9	15.4	0	1	38.1	-0.1	DRY	998	-0.0143	-0.0069	CS2	CS2							
BBH209				03/09/2018	0.4	1.2	17.6	0	1	1.9	<0.1	DRY	1006	0.0004	0.0012	CS1	CS1							
BBH209				17/09/2018	9.1	3.9	14	0	2	34.2	<0.1	DRY	999	0.0091	0.0039	CS2	CS1							
BBH209				01/10/2018	7.9	4	14	0	2	26.6	<0.1	DRY	1012	0.0079	0.004	CS2	CS1							
BBH209				15/10/2018	27.7	20.5	17	0	0	0	<0.1	DRY	997	0.0277	0.0205	CS2	CS2							
BWS211		Clay with Flints	0.5-5.0	14/08/2018	54.4	29.7	8.9	0	2	30.1	<0.1	DRY	1002	0.0544	0.0297	CS2	CS2	54.4	29.7	0.2	0.1088	0.0594	CS2	CS2
BWS211				22/08/2018	0.4	1.4	17.1	0	3	23.1	0.2	DRY	1001	0.0008	0.0028	CS1	CS1							
BWS211				03/09/2018	0.9	1	19.4	0	1	1.6	0.2	DRY	1006	0.0018	0.002	CS1	CS1							
BWS211				17/09/2018	0.3	2.2	14.8	0	2	28.6	<0.1	DRY	1000	0.0003	0.0022	CS1	CS1							
BWS211				01/10/2018	0.4	0.5	20.7	0	0	20.6	-0.1	DRY	1012	-0.0004	-0.0005	CS1	CS1							
BWS211				15/10/2018	0.4	0.5	21.2	0	0	5.2	<0.1	5.14	995	0.0004	0.0005	CS1	CS1							
BWS210		Clay with Flints	1.2-4.2	14/08/2018	0.1	0.9	21.1	0	2	18.5	-0.1	DRY	1002	-0.0001	-0.0009	CS1	CS1	0.4	0.9	0.2	0.0008	0.0018	CS1	CS1
BWS210				22/08/2018	0.4	0.7	20.3	0	2	12.7	0.2	DRY	1001	0.0008	0.0014	CS1	CS1							
BWS210				03/09/2018	0.4	0.9	18.6	0	1	11.5	0.1	DRY	1006	0.0004	0.0009	CS1	CS1							
BWS210				17/09/2018	0.3	0.7	19.8	0	2	0	<0.1	DRY	1000	0.0003	0.0007	CS1	CS1							
BWS210				01/10/2018	0.4	0.8	19.8	0	0	7.7	<0.1	DRY	1012	0.0004	0.0008	CS1	CS1							
BWS210				15/10/2018	0.4	0.8	20.8	0	0	0	<0.1	4.25	995	0.0004	0.0008	CS1	CS1							
BWS218		Clay with Flints	0.5-5.0	14/08/2018	0	1.1	21.5	0	2	33.4	<0.1	DRY	1002	0	0.0011	CS1	CS1	0.4	1.1	0.2	0.0008	0.0022	CS1	CS1
BWS218				22/08/2018	0.4	0.4	20.8	0	2	22.1	0.2	DRY	1001	0.0008	0.0008	CS1	CS1							
BWS218				03/09/2018	0.4	1	19.4	0	0	13.2	0.1	DRY	1006	0.0004	0.001	CS1	CS1							
BWS218				17/09/2018	0.3	0.5	20.2	0	1	0	<0.1	DRY	1000	0.0003	0.0005	CS1	CS1							
BWS218				01/10/2018	0.4	0.4	20.2	0	0	0	<0.1	DRY	1013	0.0004	0.0004	CS1	CS1							
BWS218				15/10/2018	0.4	0.7	20.7	0	0	0	<0.1	DRY	995	0.0004	0.0007	CS1	CS1							
BWS209		Chalk	2.0-5.0	14/08/2018	<0.1	0.6	21.5	0	2	33.2	<0.1	DRY	1002	0.0001	0.0006	CS1	CS1	0.5	5.9	0.2	0.001	0.0118	CS1	CS1
BWS209				22/08/2018	0.5	0.9	18.9	0	2	28.1	0.2	DRY	1001	0.001	0.0018	CS1	CS1							
BWS209				03/09/2018	0.4	3.2	17.2	0	0	2.3	0.1	DRY	1006	0.0004	0.0032	CS1	CS1							
BWS209				17/09/2018	0.4	5.9	17.6	0	1	25.5	<0.1	DRY	1000	0.0004	0.0059	CS1	CS1							
BWS209				01/10/2018	0.4	0.3	20.3	0	0	0	<0.1	DRY	1012	0.0004	0.0003	CS1	CS1							
BWS209				15/10/2018	0.4	3.8	18.3	0	0	9.3	<0.1	DRY	995	0.0004	0.0038	CS1	CS1							
BWS203		Clay with Flints	0.5-2.5	14/08/2018	0	1.7	19.9	1	19.9	9.1	<0.1	DRY	1002	0	0.0017	CS1	CS1	4.1	12.2	0.1	0.0041	0.0122	CS2	CS2
BWS203				24/08/2018	3.1	2.3	19.1	0	1	8.6	<0.1	DRY	999	0.0031	0.0023	CS2	CS1							
BWS203				04/09/2018	4.1	3.5	16	0	1	8.5	-0.1	DRY	1006	-0.0041	-0.0035	CS2	CS1							
BWS203				17/09/2018	0.6	1.9	19.4	0	1	6.7	<0.1	DRY	1001	0.0006	0.0019	CS1	CS1							
BWS203				03/10/2018	1.1	1.5	20.1	0	0	12.1	<0.1	DRY	1010	0.0011	0.0015	CS2	CS1							
BWS203				15/10/2018	3.4	12.2	16.8	0	0	1.2	<0.1	DRY	994	0.0034	0.0122	CS2	CS2							
BBH210		Chalk	12.0-20.5	15/08/2018	3.2	1.8	9.3	0	1	3.8	-0.1	DRY	1001	-0.0032	-0.0018	CS2	CS1	9.3	3.3	-0.2	-0.0186	-0.0066	CS2	CS1
BBH210				23/08/2018	4	1.4	12.9	0	1	0.6	-0.1	DRY	996	-0.004	-0.0014	CS2	CS1							
BBH210				06/09/2018	9.3	3.3	0.3	0	0	16.3	0.1	DRY	1001	0.0093	0.0033	CS2	CS1							
BBH210				01/10/2018	0.6	0.2	20.7	0	0	0	-0.2	DRY	1009	-0.0012	-0.0004	CS1	CS1							
BBH210				18/10/2018	0.8	0.4	19.9	0	0	0	<0.1	DRY	999	0.0008	0.0004	CS1	CS1							

Appendix F
F3 Gas Monitoring Data - Long Term Car Park

Well ID	Location	Strata	Response zone	Date	Peak CH4 (%v)	Peak CO2 (%v)	Min O2 (%v)	Peak H2S (ppm)	Peak CO (ppm)	Peak PID (ppm)	Peak Flow (l/hr)	Water Level (mbgl)	Atmos Pressure (mBar)	Gas Screening Value - GSV (l/hr)		Characteristic Situation		Maximum (Worst Case)			Worst Case GSV		Worst Case CS	
														CH4	CO2	CH4	CO2	CH4 (%)	CO2 (%)	Flow (l/hr)	CH4	CO2	CH4	CO2
BH210	Area A - Landfill	Waste	2.0-10.0	10/01/2019	26.2	9.4	0.1	0	1	0	0.1	9.58	1011	0.0262	0.0094	CS2	CS2	64.2	12.5	0.6	0.3852	0.075	CS2	CS2
BH210				21/01/2019	51.9	10.3	1.6	0	1	1.2	0.2	9.99	1002	0.1038	0.0206	CS2	CS2							
BH210				05/02/2019	8.8	8.1	2.6	0	3	12.3	-0.3	9.9	1006	-0.0264	-0.0243	CS2	CS2							
BH210				18/02/2019	59.9	12.5	7.1	0	2	3.5	0.5	9.875	998	0.2995	0.0625	CS2	CS2							
BH210				05/03/2019	64.2	11.6	11.4	0.0	1.0	0.0	0.2	9.860	987	0.1284	0.0232	CS2	CS2							
BH210				21/03/2019	29.3	9.0	1.2	0.0	0.0	0.0	0.6	9.860	1015	0.1758	0.054	CS2	CS2							
BH216	Area A - Landfill	Waste	2.9-8.0	10/01/2019	28.3	16.8	0.1	0	2	0	0.1	7.91	1004	0.0283	0.0168	CS2	CS2	57.4	16.8	0.7	0.4018	0.1176	CS2	CS2
BH216				21/01/2019	32.2	9.2	0.1	0	2	0	0.2	7.88	1002	0.0644	0.0184	CS2	CS2							
BH216				05/02/2019	33.7	13.7	0.1	0	2	1.6	0.3	7.85	1005	0.1011	0.0411	CS2	CS2							
BH216				18/02/2019	55.6	12.0	0.1	0	2	0.0	0.7	7.885	998	0.3892	0.084	CS2	CS2							
BH216				05/03/2019	34.2	13.4	0.2	0	2	0.0	0.6	7.905	981	0.2052	0.0804	CS2	CS2							
BH216				21/03/2019	57.4	11.9	0.1	0	1	0.0	0.6	7.920	1015	0.3444	0.0714	CS2	CS2							
BH217	Area A - Landfill	Waste	1.9-12.5	14/01/2019	62.6	12	0.2	0	2	0.2	-0.1	12.44	1002	-0.0626	-0.012	CS2	CS2	62.6	12.3	0.9	0.5634	0.1107	CS2	CS2
BH217				21/01/2019	58.2	12.1	0.1	0	3	0.5	0.6	12.43	1002	0.3492	0.0726	CS2	CS2							
BH217				05/02/2019	55.5	11.1	0.1	0	2	2.6	0.1	12.46	1005	0.0555	0.0111	CS2	CS2							
BH217				18/02/2019	31.0	9.4	0.1	0	2	0.0	0.9	12.465	997	0.279	0.0846	CS2	CS2							
BH217				05/03/2019	60.6	12.3	0.1	0	2	0.8	0.4	12.430	987	0.2424	0.0492	CS2	CS2							
BH217				21/03/2019	55.9	11.9	0.1	0	1	0.0	0.3	12.460	1015	0.1677	0.0357	CS2	CS2							
BH222	Area A - Landfill	Waste	0.9-7.5	10/01/2019	73.4	17.1	0.1	0	3	0	<0.1	7.56	1011	0.0734	0.0171	CS2	CS2	73.4	17.1	0.1	0.0734	0.0171	CS2	CS2
BH222				21/01/2019	32.2	12.7	3	0	6	0.5	-0.1	7.235	1003	-0.0322	-0.0127	CS2	CS2							
BH222				05/02/2019	15	13.4	0.2	0	3	2.5	<0.1	7.42	1006	0.015	0.0134	CS2	CS2							
BH222				18/02/2019	24.7	15.2	0.2	0	3	0.5	0.1	7.260	998	0.0247	0.0152	CS2	CS2							
BH222				05/03/2019	2.0	1.3	18.1	0	1	0.6	<0.1	7.535	987	0.002	0.0013	CS2	CS1							
BH222				21/03/2019	10.8	7.2	7.4	0	6	0.0	0.1	7.490	1016	0.0108	0.0072	CS2	CS2							
BH223	Area A - Landfill	Waste	1.0-9.5	10/01/2019	66.8	22.6	0.5	1	2	0.1	0.1	8.14	1013	0.0668	0.0226	CS2	CS2	74.5	60	0.1	0.0745	0.06	CS2	CS2
BH223				21/01/2019	37.6	15.1	3.3	0	10	1.2	0.1	8.14	1007	0.0376	0.0151	CS2	CS2							
BH223				05/02/2019	33.2	13.7	5.8	0	0	0.4	-0.1	8.17	1006	-0.0332	-0.0137	CS2	CS2							
BH223				18/02/2019	69.1	8.2	0.7	0	0	0.5	<0.1	8.160	998	0.0691	0.0082	CS2	CS2							
BH223				05/03/2019	74.5	8.0	1.0	0	0	0.7	-0.1	8.175	985	-0.0745	-0.008	CS2	CS2							
BH223				21/03/2019	63.4	60.0	1.1	1	0	0.9	-0.1	8.180	1016	-0.0634	-0.06	CS2	CS2							
BH227	Area A - Landfill	Waste	0.5-5.5	10/01/2019	34.4	14.6	0.1	0	8	0	0.1	5.57	1011	0.0344	0.0146	CS2	CS2	34.4	16.4	0.1	0.0344	0.0164	CS2	CS2
BH227				21/01/2019	21.2	8.4	0.1	0	10	1.3	-0.1	DRY	1003	-0.0212	-0.0084	CS2	CS2							
BH227				05/02/2019	31.3	11.3	0.1	0	2	3.1	<0.1	DRY	1007	0.0313	0.0113	CS2	CS2							
BH227				18/02/2019	27.7	16.4	0.2	0	7	0.1	<0.1	5.575	998	0.0277	0.0164	CS2	CS2							
BH227				05/03/2019	2.8	7.9	19.2	0	1	1.1	<0.1	5.560	986	0.0028	0.0079	CS2	CS2							
BH227				21/03/2019	12.8	4.5	11.0	0	2	0.0	<0.1	5.575	1016	0.0128	0.0045	CS2	CS1							
BH228	Area A - Landfill	Waste	1.0-8.5	10/01/2019	45.2	16.7	0.1	0	0	0.1	-0.1	8.21	1011	-0.0452	-0.0167	CS2	CS2	45.2	16.7	-0.2	-0.0904	-0.0334	CS2	CS2
BH228				21/01/2019	36.3	12.8	0.1	0	3	11.1	<0.1	8.13	1007	0.0363	0.0128	CS2	CS2							
BH228				05/02/2019	30	3.9	0.1	0	4	0	<0.1	6.3	1007	0.03	0.0039	CS2	CS1							
BH228				18/02/2019	31.0	7.1	0.1	0	0	0.9	<0.1	8.080	998	0.031	0.0071	CS2	CS2							
BH228				05/03/2019	28.9	5.9	10.7	0	14	1.8	-0.2	7.530	986	-0.0578	-0.0118	CS2	CS2							
BH228				21/03/2019	28.4	5.0	0.1	1	0	0.1	<0.1	7.500	1016	0.0284	0.005	CS2	CS2							
BH231	Area A - Landfill	Waste	1.0-8.0	10/01/2019	57.4	8.2	0	0	13	1.3	<0.1	7.78	1012	0.0574	0.0082	CS2	CS2	75.6	8.2	-0.5	-0.378	-0.041	CS2	CS2
BH231				21/01/2019	75.6	7.4	0.2	0	11	2	0.2	7.665	1006	0.1512	0.0148	CS2	CS2							
BH231				05/02/2019	35.7	0.4	0.1	0	9	2.7	0.2	6.9	1008	0.0714	0.0008	CS2	CS1							
BH231				18/02/2019	44.6	6.8	0.1	0	22	0.0	-0.5	7.380	998	-0.223	-0.034	CS2	CS2							
BH231				05/03/2019	45.7	0.6	0.1	0	15	2.4	-0.1	7.360	986	-0.0457	-0.0006	CS2	CS1							
BH231				21/03/2019	28.2	5.1	15.0	0	0	4.4	0.1	7.040	1016	0.0282	0.0051	CS2	CS2							
BH232	Area A - Landfill	Waste	1.0-6.5	10/01/2019	34.9	18.1	0.5	0	4	0	0.1	6.53	1011	0.0349	0.0181	CS2	CS2	60.7	18.1	0.1	0.0607	0.0181	CS2	CS2
BH232				21/01/2019	10.9	13.4	0.5	0	7	1.4	<0.1	6.55	1002	0.0109	0.0134	CS2	CS2							
BH232				05/02/2019	60.7	11.5	4.4	0	2	24.2	<0.1	6.59	1007	0.0607	0.0115	CS2	CS2							
BH232				18/02/2019	59.4	17.6	0.1	0	4	2.2	<0.1	6.570	998	0.0594	0.0176	CS2	CS2							
BH232				05/03/2019	7.4	11.9	6.5	0	3	9.6	-0.1	6.570	987	-0.0074	-0.0119	CS2	CS2							
BH232				21/03/2019	56.1	0.1	15.7	0	0	0.0	<0.1	6.580	1016	0.0561	0.0001	CS2	CS1							
BWS217	Area A - Landfill	Waste	1.45-5.45	10/01/2019	0.8	0.5	21.3	0	9	0.2	-0.2	3.19	1012	-0.0016	-0.001	CS1	CS1	25.6	6.9	-9	-2.304	-0.621	CS3	CS2
BWS217				21/01/2019	25.6	6.9	7.5	0	6	4	-0.6	3.24	1005	-0.1536	-0.0414	CS2	CS2							
BWS217				06/02/2019	0.1	0.1	4.9	0	0	0.4	-9	2.97	1002	-0.009	-0.009	CS1	CS1							
BWS217				05/03/2019	10.2	0.2	5.8	0	5	1.4	-8.8	3.190	986	-0.8976	-0.0176	CS2	CS1							
WS214	Area A - Landfill	Waste	0.5-3.56	10/01/2019	46.2	1.6	2.9	0	0	0.1	-3.6	3.45	1013	-1.6632	-0.0576	CS3	CS1	46.2	5.9	-4.6	-2.1252	-0.2714	CS3	CS2
WS214				05/02/2019	45.8	5.9	0.5	0	0	0	<0.1	3.405	1006	0.0458	0.0059	CS2	CS2							
WS214				18/02/2019	44.6	2.0	0.1	0	0	0.1	-4.6	3.460	998	-2.0516	-0.092	CS3	CS2							
WS214				05/03/2019	43.5	2.3	0.1	0	0	0.3	-0.2	3.490	985	-0.087	-0.0046	CS2	CS1							
WS220	Area A - Landfill	Waste	0.45-5.0	10/01/2019	72.9	23.2	0.5	0	2	0	0.2	5.01	1011	0.1458	0.0464	CS2	CS2	72.9	23.2	0.4	0.2916	0.0928	CS2	CS2
WS220				21/01/2019	71.1	18	0.5	0	2	1.1	0.4	5.01	1005	0.2844	0.072	CS2	CS2							
WS220				05/03/2019	53.8	13.5	4.7	0	2	1.5	-0.3	DRY	987	-0.1614	-0.0405	CS2	CS2							
WS220				21/03/2019	71.3	16.1	0.6	0	1	0.0	<0.1	5.03	1016	0.0713	0.0161	CS2	CS2							
WS222	Area A - Landfill	Waste	1.0-5.0	10/01/2019	76.8	7.6	0.1	0	2	0	0.2	4.97												

Appendix F
F3 Gas Monitoring Data - Long Term Car Park

Well ID	Location	Strata	Response zone	Date	Peak CH4 (%v/v)	Peak CO2 (%v/v)	Min O2 (%v/v)	Peak H2S (ppm)	Peak CO (ppm)	Peak PID (ppm)	Peak Flow (l/hr)	Water Level (mbgl)	Atmos Pressure (mBar)	Gas Screening Value - GSV (l/hr)		Characteristic Situation		Maximum (Worst Case)			Worst Case GSV		Worst Case CS	
														CH4	CO2	CH4	CO2	CH4 (%)	CO2 (%)	Flow (l/hr)	CH4	CO2	CH4	CO2
WS222				21/03/2019	76.1	10.1	0.2	2	5	1.1	<0.1	4.990	1016	0.0761	0.0101	CS2	CS2							
WS223	Area A - Landfill	Waste	0.5-1.5	10/01/2019	42	8.8	15.8	0	8	0.7	<0.1	DRY	1012	0.042	0.0088	CS2	CS2	42	8.8	-0.9	-0.378	-0.0792	CS2	CS2
WS223				21/01/2019	1.3	0.4	21.2	0	5	3.1	<0.1	1.44	1005	0.0013	0.0004	CS2	CS1							
WS223				05/02/2019	7.7	0.1	16.8	0	9	2.7	<0.1	1.34	1007	0.0077	0.0001	CS2	CS1							
WS223				18/02/2019	14.1	2.1	16.7	0	8	2.1	0.1	1.290	998	0.0141	0.0021	CS2	CS1							
WS223				05/03/2019	0.3	0.1	20.4	0	6	2.5	0.1	1.195	986	0.0003	0.0001	CS1	CS1							
WS223				21/03/2019	0.1	0.1	20.7	1	5	1.9	-0.9	1.140	1016	-0.0009	-0.0009	CS1	CS1							
WS224	Area A - Landfill	Waste	1.0-5.0	10/01/2019	71.2	4.9	0.3	0	23	3.7	0.1	4.87	1012	0.0712	0.0049	CS2	CS1	80.6	7.6	0.1	0.0806	0.0076	CS2	CS2
WS224				21/01/2019	73.4	3.4	0.4	0	29	1.8	0.1	4.92	1007	0.0734	0.0034	CS2	CS1							
WS224				05/02/2019	80.6	0.4	0.6	0	25	2.6	0.1	4.38	1007	0.0806	0.0004	CS2	CS1							
WS224				18/02/2019	69.4	7.6	0.4	0	22	2.3	<0.1	4.510	998	0.0694	0.0076	CS2	CS2							
WS224				05/03/2019	71.5	0.5	0.9	0	27	3.9	-0.1	4.355	986	-0.0715	-0.0005	CS2	CS1							
WS225	Area A - Landfill	Waste	1.0-4.9	10/01/2019	59.2	18.6	0.1	0	1	2.6	<0.1	4.96	1012	0.0592	0.0186	CS2	CS2	59.2	18.6	-0.8	-0.4736	-0.1488	CS2	CS2
WS225				21/01/2019	45	15.4	0.6	0	22	0.1	-0.8	4.965	1007	-0.36	-0.1232	CS2	CS2							

Appendix F
F4 Gas Monitoring Data - Long Term Monitoring

Well ID	Location	Strata	Response zone	Date	Peak CH4 (%/v)	Peak CO2 (%/v)	Min O2 (%/v)	Peak H2S (ppm)	Peak CO (ppm)	Peak PID (ppm)	Peak Flow (l/hr)	Water Level (mbgl)	Atmos Pressure (mBar)	Gas Screening Value - GSV (l/hr)		Characteristic Situation		Maximum (Worst Case)			Worst Case GSV		Worst Case CS	
														CH4	CO2	CH4	CO2	CH4 (%)	CO2 (%)	Flow (l/hr)	CH4	CO2	CH4	CO2
LF-BH03G	Area A - Landfill	Waste	1.0-6.0	06/02/2017	51.8	21.8	<0.1	2	1		<0.1	Dry	999	0.0518	0.0218	CS2	CS2	51.8	21.8	0.1	0.0518	0.0218	CS2	CS2
LF-BH03G				15/03/2017	0.1	10.9	4.8	0	1		<0.1	5.93	1016	0.0001	0.0109	CS1	CS2							
LF-BH03G				16/05/2017	7.4	13.7	<0.1	1	6		<0.1	5.96	1005	0.0074	0.0137	CS2	CS2							
LF-BH03G				01/04/2018	27.5	14.8	0.1	2	5	0.1	<0.1	5.56	996	0.0275	0.0148	CS2	CS2							
LF-BH03G				01/05/2018	28.2	16	<0.1	1	0	0.5	<0.1	5.64	1010	0.0282	0.016	CS2	CS2							
LF-BH03G				15/06/2018	24	15.2	0.1	1	1	0.1	0.1		1000	0.024	0.0152	CS2	CS2							
LF-BH03G				12/07/2018	33.6	15.3	0.2	2	0	0.1	<0.1		1006	0.0336	0.0153	CS2	CS2							
LF-BH03G				13/08/2018	32.1	16.4	0.6	7	1	0	0.1		993	0.0321	0.0164	CS2	CS2							
LF-BH03G				28/09/2018	6.9	13.5	4.9	0	0		<0.1		1015	0.0069	0.0135	CS2	CS2							
LF-BH03G				25/10/2018	38.3	17.4	0.1	7	0		<0.1		1009	0.0383	0.0174	CS2	CS2							
LF-BH03G				19/11/2018	32.3	16.7	0.1	6	1		<0.1		1010	0.0323	0.0167	CS2	CS2							
LF-BH03G				07/12/2018	32	12.9	2.5	4	0		<0.1		985	0.032	0.0129	CS2	CS2							
LF-BH03G				23/01/2019	40.7	16.8	0.1	7	0		<0.1		984	0.0407	0.0168	CS2	CS2							
LF-BH03G				18/02/2019	29	16.3	0.1	9	0		<0.1		998	0.029	0.0163	CS2	CS2							
LF-BH03G				18/03/2019	1.2	14.2	7.9	0	0		<0.1		1004	0.0012	0.0142	CS2	CS2							
LF-BH05G	Area D - LLOAL Compound	MG	1.0-6.0	07/02/2017	6.3	9.7	<0.1	0	0		<0.1	Dry	994	0.0063	0.0097	CS2	CS2	8.7	9.7	0.1	0.0087	0.0097	CS2	CS2
LF-BH05G				15/03/2017	8.7	7.5	<0.1	0	2		0.1	5.95	1016	0.0087	0.0075	CS2	CS2							
LF-BH05G				06/04/2017	<0.1	2.8	17.4	1	0		<0.1	5.95	1012	0.0001	0.0028	CS1	CS1							
LF-BH05G				16/05/2017	<0.1	3.1	17.3	0	0		0.1	5.95	1005	0.0001	0.0031	CS1	CS1							
LF-BH05G				01/04/2018	<0.1	2.9	17.1	0	1	0	<0.1	2.82	995	0.0001	0.0029	CS1	CS1							
LF-BH05G				01/05/2018	<0.1	3.7	17.7	1	0	0	0.1	2.92	1011	0.0001	0.0037	CS1	CS1							
LF-BH05G				14/06/2018	<0.1	3.2	17.9	1	1	1	0.1		994	0.0001	0.0032	CS1	CS1							
LF-BH05G				11/07/2018	0.4	3.5	18.1	1	0	2.6	0.1		1004	0.0004	0.0035	CS1	CS1							
LF-BH05G				13/08/2018	<0.1	5.9	12.9	0	1	0	<0.1		990	0.0001	0.0059	CS1	CS1							
LF-BH05G				28/09/2018	0.3	3.2	17	0	0		<0.1		1013	0.0003	0.0032	CS1	CS1							
LF-BH05G				25/10/2018	<0.1	1.8	19.9	0	0		<0.1		1006	0.0001	0.0018	CS1	CS1							
LF-BH05G				19/11/2018	<0.1	3	19.1	0	0		<0.1		1007	0.0001	0.003	CS1	CS1							
LF-BH05G				07/12/2018	5.8	2.7	17.7	0	0		<0.1		983	0.0001	0.0027	CS1	CS1							
LF-BH05G				23/01/2019	<0.1	6.7	11.9	0	0		<0.1		983	0.0001	0.0067	CS1	CS1							
LF-BH05G				18/02/2019	<0.1	0.1	20.5	0	0		<0.1		999	0.0001	0.0001	CS1	CS1							
LF-BH05G	18/03/2019	<0.1	0.1	20.9	0	0		<0.1		1005	0.0001	0.0001	CS1	CS1										
LF-BH06	Area A - Landfill	Waste	1.0-12.0	07/02/2017	0.5	1.3	2.1	0	0		<0.1	12.06	994	0.0005	0.0013	CS1	CS2	56.3	20.3	0.3	0.1689	0.0609	CS2	CS2
LF-BH06				15/03/2017	26	9.5	2.1	0	16		0.1	12.06	1014	0.026	0.0095	CS2	CS2							
LF-BH06				06/04/2017	16	6	12.9	0	1		-0.1	12.06	1012	-0.016	-0.006	CS2	CS2							
LF-BH06				01/04/2018	<0.1	0.1	20.7	0	1	1.1	<0.1	11.66	997	0.0001	0.0001	CS1	CS1							
LF-BH06				01/05/2018	21.1	9.4	5.9	1	2	0.1	0.3	12.05	1011	0.0633	0.0282	CS2	CS2							
LF-BH06				14/06/2018	<0.1	<0.1	20.6	0	1	0.8	<0.1		996	0.0001	0.0001	CS1	CS1							
LF-BH06				12/07/2018	6.6	2.8	18	1	0	1.4	0.1		1006	0.0066	0.0028	CS2	CS1							
LF-BH06				28/09/2018	0.2	0.1	21.3	0	0		<0.1		1012	0.0002	0.0001	CS1	CS1							
LF-BH06				25/10/2018	56.3	20.3	0.1	4	2		<0.1		1006	0.0563	0.0203	CS2	CS2							
LF-BH06				19/11/2018	49.2	20.1	<0.1	3	2		<0.1		1007	0.0492	0.0201	CS2	CS2							
LF-BH06				07/12/2018	46.5	12.7	0.1	0	1		<0.1		982	0.0465	0.0127	CS2	CS2							
LF-BH06				23/01/2019	0.2	0.4	22	0	0		<0.1		983	0.0002	0.0004	CS1	CS1							
LF-BH06				18/02/2019	20.7	10.1	10.7	0	0		<0.1		1001	0.0207	0.0101	CS2	CS2							
LF-BH06				18/03/2019	<0.1	0.1	20.9	0	0		<0.1		1005	0.0001	0.0001	CS1	CS1							
LF-BH07				Area A - Landfill	Waste	1.0-16.0	07/02/2017	17.3	9.8	13.5	0	0		-0.1	Dry	994	-0.0173							
LF-BH07	15/03/2017	37.8	17.5				0.6	1	11		0.1	Dry	1014	0.0378	0.0175	CS2	CS2							
LF-BH07	06/04/2017	32.8	17.4				0.1	0	12		0.1	Dry	1010	0.0328	0.0174	CS2	CS2							
LF-BH07	17/05/2017	28.6	17.1				<0.1	0	9		0.1	Dry	997	0.0286	0.0171	CS2	CS2							
LF-BH07	01/04/2018	15.7	10.4				11.6	2	2	1.8	<0.1	Dry	999	0.0157	0.0104	CS2	CS2							
LF-BH07	01/05/2018	41.9	21.6				2	1	1	0.5	0.2	Dry	1011	0.0838	0.0432	CS2	CS2							
LF-BH07	13/06/2018	61.2	23.6				0.1	1	2	0.4	0.1		991	0.0612	0.0236	CS2	CS2							
LF-BH07	11/07/2018	46.5	22.5				0.3	1	3	0.1	<0.1		1008	0.0465	0.0225	CS2	CS2							
LF-BH08G	Area A - Landfill	Waste	1.0-6.0	06/02/2017	6.3	20.9	<0.1		0		<0.1	5.7	999	0.0063	0.0209	CS2	CS2	62.1	53.1	0.2	0.1242	0.1062	CS2	CS2
LF-BH08G				15/03/2017	62.1	20.2	<0.1	4	1		<0.1	Dry	1014	0.0621	0.0202	CS2	CS2							
LF-BH08G				06/04/2017	56.4	19.4	<0.1	0	4		0.2	Dry	1010	0.1128	0.0388	CS2	CS2							
LF-BH08G				16/05/2017	18.8	53.1	1		2		<0.1	Dry	1006	0.0188	0.0531	CS2	CS2							
LF-BH08G				01/04/2018	58.9	23.1	0.1	1	2	0.1	0.1	Dry	996	0.0589	0.0231	CS2	CS2							
LF-BH08G				01/05/2018	49	21.9	<0.1	1	1	0.4	0.1	Dry	1011	0.049	0.0219	CS2	CS2							
LF-BH08G				13/06/2018	61.1	23.8	0.1	3	1	0.4	0.1		993	0.0611	0.0238	CS2	CS2							
LF-BH08G				11/07/2018	58.7	23.2	0.1	4	1	0	0.1		1008	0.0587	0.0232	CS2	CS2							
LF-BH08G				06/08/2018	52.7	22.5	0.1	5	2	-	0.1		1020	0.0527	0.0225	CS2	CS2							
LF-BH08G				28/09/2018	0.3	0.1	21.2	0	0		<0.1		1015	0.0003	0.0001	CS1	CS1							
LF-BH08G				25/10/2018	44.9	26.7	<0.1	3	1		<0.1		1006	0.0449	0.0267	CS2	CS2							
LF-BH08G				19/11/2018	45.8	27.6	<0.1	2	1		<0.1		1010	0.0458	0.0276	CS2	CS2							
LF-BH08G				07/12/2018	47.6	26.1	0.1	6	0		<0.1		984	0.0476	0.0261	CS2	CS2							
LF-BH08G				23/01/2019	0.3	0.3	21.9	0	0		<0.1		983	0.0003	0.0003	CS1	CS1							
LF-BH08G				18/02/2019	56.1	29.9	<0.1	9	1		<0.1		999	0.0561	0.0299	CS2	CS2							
LF-BH08G	18/03/2019	40.3	20	1.9	0	1		<0.1		1005	0.0403	0.02	CS2	CS2										
LF-BH10GA	Area A - Landfill	Waste	1.0-5.0	06/02/2017	<0.1	1.9	19.7	0	0		<0.1	Dry	999	0.0001	0.0019	CS1	CS1	40.5	7.6	0.1	0.0405	0.0076	CS2	CS2
LF-BH10GA				15/03/2017	<0.1	3	16.3	0	0		<0.1	Dry	1015	0.0001	0.003	CS1	CS1							

Appendix F
F4 Gas Monitoring Data - Long Term Monitoring

Well ID	Location	Strata	Response zone	Date	Peak CH4 (%/v)	Peak CO2 (%/v)	Min O2 (%/v)	Peak H2S (ppm)	Peak CO (ppm)	Peak PID (ppm)	Peak Flow (l/hr)	Water Level (mbgl)	Atmos Pressure (mBar)	Gas Screening Value - GSV (l/hr)		Characteristic Situation		Maximum (Worst Case)			Worst Case GSV		Worst Case CS	
														CH4	CO2	CH4	CO2	CH4 (%)	CO2 (%)	Flow (l/hr)	CH4	CO2	CH4	CO2
LF-BH10GA				06/04/2017	<0.1	3.9	15.9	0	0		<0.1	Dry		0.0001	0.0039	CS1	CS1							
LF-BH10G				17/05/2017	<0.1	4.6	16.9	1	0		<0.1	Dry	999	0.0001	0.0046	CS1	CS1							
LF-BH10GA				01/04/2018	<0.1	5	14.3	0	2	0	<0.1	4.71	996	0.0001	0.005	CS1	CS1							
LF-BH10GA				01/05/2018	40.5	3.7	12.3	0	0	0	<0.1	4.9	1010	0.0405	0.0037	CS2	CS1							
LF-BH10GA				15/06/2018	<0.1	7.1	14.3	1	0	0.1	<0.1		1002	0.0001	0.0071	CS1	CS2							
LF-BH10GA				12/07/2018	0.1	6.2	15.6	1	0	0.5	0.1		1008	0.0001	0.0062	CS1	CS2							
LF-BH10GA				10/08/2018	<0.1	7.6	14.1	2	0	0	<0.1		1002	0.0001	0.0076	CS1	CS2							
LF-BH10GA				28/09/2018	0.3	0.6	20.7	0	0	0	<0.1		1016	0.0003	0.0006	CS1	CS1							
LF-BH10GA				25/10/2018	<0.1	2.3	19.1	1	0	0	<0.1		1008	0.0001	0.0023	CS1	CS1							
LF-BH10GA				19/11/2018	<0.1	0.6	20.8	0	0	0	<0.1		1011	0.0001	0.0006	CS1	CS1							
LF-BH10GA				07/12/2018	0.1	3.5	17.8	0	0	0	<0.1		983	0.0001	0.0035	CS1	CS1							
LF-BH10GA				23/01/2019	<0.1	1.1	20.8	0	0	0	<0.1		983	0.0001	0.0011	CS1	CS1							
LF-BH10GA				18/02/2019	<0.1	2.1	19.5	0	0	0	<0.1		1000	0.0001	0.0021	CS1	CS1							
LF-BH10GA				18/03/2019	<0.1	0.3	20.6	0	0	0	<0.1		1004	0.0001	0.0003	CS1	CS1							
LF-BH12A				Area A - Landfill	Waste	1.0-10.0	06/02/2017	4.3	11.8	<0.1	0	0		<0.1	9.38	999	0.0043							0.0118
LF-BH12A	15/03/2017	0.1	9.9				1	0	0	0	0.1	9.25	1014	0.0001	0.0099	CS1	CS2							
LF-BH12A	06/04/2017	<0.1	10.9				2.8	0	1		<0.1	9.65	1012	0.0001	0.0109	CS1	CS2							
LF-BH12A	17/05/2017	<0.1	10.8				5.9	0	0		<0.1	9.47	997	0.0001	0.0108	CS1	CS2							
LF-BH12A	01/04/2018	0.4	9.8				6.9	0	2	1.8	<0.1	9.6	996	0.0004	0.0098	CS1	CS2							
LF-BH12A	01/05/2018	4.4	9.4				15.5	1	2	0.1	<0.1	9.51	1011	0.0044	0.0094	CS1	CS2							
LF-BH12A	14/06/2018	<0.1	0.2				20.5	0	1	0	<0.1		996	0.0001	0.0002	CS1	CS1							
LF-BH12A	12/07/2018	<0.1	2				18.7	1	0	0.6	0.1		1009	0.0001	0.002	CS1	CS1							
LF-BH12A	10/08/2018	<0.1	5.7				15.1	0	1	0	0.1		1001	0.0001	0.0057	CS1	CS2							
LF-BH12A	28/09/2018	0.2	0.1				21	0	0	0	<0.1		1016	0.0002	0.0001	CS1	CS1							
LF-BH12A	25/10/2018	<0.1	0.4				20.9	0	0	0	<0.1		1007	0.0001	0.0004	CS1	CS1							
LF-BH12A	19/11/2018	<0.1	7.7				21.5	0	1		<0.1		1011	0.0001	0.0077	CS1	CS2							
LF-BH12A	07/12/2018	6.2	20.8				0.1	0	0	0	<0.1		983	0.0062	0.0208	CS1	CS2							
LF-BH12A	23/01/2019	1	12.1				14	0	0	0	<0.1		983	0.001	0.0121	CS1	CS2							
LF-BH12A	18/02/2019	3.8	11.5				11.2	0	0	0	<0.1		999	0.0038	0.0115	CS1	CS2							
LF-BH12A	18/03/2019	0.2	4.4	18.9	0	0	0	<0.1		1006	0.0002	0.0044	CS1	CS1										
LF-BH02	Area A - Landfill	Chalk	30.0-58.0	07/02/2017	<0.1	0.1	20.7	0	0		<0.1	41.26	993	0.0001	0.0001	CS1	CS1	0.1	5.2	0.2	0.0002	0.0104	CS1	CS1
LF-BH02				16/03/2017	<0.1	5.2	16.9	0	0	0	0.2	41.36	1005	0.0002	0.0104	CS1	CS1							
LF-BH02				06/04/2017	<0.1	1.4	20.4	0	0	0	0.1	41.61	1011	0.0001	0.0014	CS1	CS1							
LF-BH02				17/05/2017	<0.1	4.9	15.3	0	0	0	0.2	43.07	998	0.0002	0.0098	CS1	CS1							
LF-BH03	Area A - Landfill	Chalk	25.0-55.0	06/02/2017	22.5	2.2	<0.1	0	3		<0.1	39.51	999	0.0225	0.0022	CS1	CS1	22.5	11.3	0.2	0.045	0.0226	CS1	CS1
LF-BH03				16/03/2017	0.9	11.3	0.3	0	1		0.1	39.61	1003	0.0009	0.0113	CS1	CS1							
LF-BH03				06/04/2017	0.9	0.3	19.8	0	0	0	<0.1	39.82	1019	0.0009	0.0003	CS1	CS1							
LF-BH03				16/05/2017	0.7	6	10.2	1	2		0.2	40.96	1006	0.0014	0.012	CS1	CS1							
LF-BH04	Area A - Landfill	Chalk	25.0-59.0	07/02/2017	1.9	3.2	17.5	0	4		-0.2	43.56	993	-0.0038	-0.0064	CS2	CS1	8.7	23.5	-0.5	-0.0435	-0.1175	CS2	CS2
LF-BH04				16/03/2017	8.7	23.5	0.1	0	3		<0.1	43.69	1004	0.0087	0.0235	CS2	CS2							
LF-BH04				06/04/2017	8.7	19.1	<0.1	0	5		-0.5	43.96	1014	-0.0435	-0.0955	CS2	CS2							
LF-BH04				16/05/2017	1.6	5.7	15.6	1	1		-0.1	45.21	1005	-0.0016	-0.0057	CS2	CS2							
LF-BH04G	Area A - Landfill	Waste	1.0-6.0	07/02/2017	28.2	15.1	3.2	0	0		<0.1	5.97	993	0.0282	0.0151	CS2	CS2	28.2	15.1	0.3	0.0846	0.0453	CS2	CS2
LF-BH04G				15/03/2017	18.9	9.6	2.4	0	3		0.3	5.92	1015	0.0567	0.0288	CS2	CS2							
LF-BH04G				06/04/2017	24.5	9.6	3.2	0	1		-0.1	5.92	1014	-0.0245	-0.0096	CS2	CS2							
LF-BH04G				16/05/2017	28	10.5	0.2	0	5		0.2	5.9	1004	0.056	0.021	CS2	CS2							
LF-BH09	Area A - Landfill	Waste	1.0-13.0	06/02/2017	29.2	14.6	5.1	0	0		<0.1	6.93	999	0.0292	0.0146	CS2	CS2	43	15.9	0.1	0.043	0.0159	CS2	CS2
LF-BH09				15/03/2017	40.1	14.6	<0.1	3	1		<0.1	Dry	1013	0.0401	0.0146	CS2	CS2							
LF-BH09				06/04/2017	37.1	12.8	2.8	2	1		0.1	Dry	1011	0.0371	0.0128	CS2	CS2							
LF-BH09				17/05/2017	43	15.9	<0.1	0	1		<0.1	Dry	997	0.043	0.0159	CS2	CS2							
LF-BH08	Area A - Landfill	Chalk	25.0-57.0	06/02/2017	18.8	20.9	5		0		-0.2	43.19	999	-0.0376	-0.0418	CS2	CS2	18.8	20.9	0.2	0.0376	0.0418	CS2	CS2
LF-BH08				15/03/2017	2.3	11.8	3.8	0	1		0.2	43.27	1014	0.0046	0.0236	CS2	CS2							
LF-BH08				06/04/2017	2.9	17.7	1.7	0	1		-0.1	43.43	1010	-0.0029	-0.0177	CS2	CS2							
LF-BH08				16/05/2017	3.1	16.9	0.3	2	1		<0.1	44.47	1006	0.0031	0.0169	CS2	CS2							

Appendix F
F5 Gas Monitoring Data - Hangar 24

Well ID	Location	Response Zone	Strata	Date	Peak CH4 (%v/v)	Peak CO2 (%v/v)	Min O2 (%v/v)	Peak H2S (ppm)	Peak CO (ppm)	Peak PID (ppm)	Peak Flow (l/hr)	Water Level (mbgl)	Atmos Pressure (mBar)	Gas Screening Value - GSV (l/hr)		Characteristic Situation		Maximum (Worst Case)			Worst Case GSV		Worst Case CS					
														CH4	CO2	CH4	CO2	CH4 (%)	CO2 (%)	Flow (l/hr)	CH4	CO2	CH4	CO2				
AEC17-H24-BH101	Rest Airport	0.3-0.9	MG	24/10/2017	<0.1	1.7	14.1	<1	<1	1	<0.1		1002	0.0001	0.0017	CS1	CS1	<0.1	2.9	6	0.006	0.174	CS1	CS2				
				09/11/2017	<0.1	1.6	12.6	<1	<1	1	2.9	0.98	1002	0.0029	0.0464	CS1	CS1											
				22/11/2017	<0.1	2.9	9.8	<1	<1	1	6	0.98	978	0.006	0.174	CS1	CS2											
				04/12/2017	<0.1	0.9	19.1	<1	<1	1	<0.1	0.985	1012	0.0001	0.0009	CS1	CS1											
				19/12/2017	<0.1	0.9	8.9	<1	<1	1.0	0.5	0.960	1014	0.0005	0.0045	CS1	CS1											
				03/01/2018	<0.1	1.5	10.2	<1	<1	1.0	4.9	0.975	976	0.0049	0.0735	CS1	CS2											
AEC17-H24-BH102	Rest Airport	0.3-1.0	MG	24/10/2017	<0.1	0.4	19.8	<1	<1	0.9	<0.1	0.68	1002	Response zone <0.5m do not use for risk assessment				<0.1	0.6	0.1	0.0001	0.0006	CS1	CS1				
				09/11/2017	<0.1	0.4	19.5	<1	<1	1	<0.1	0.74	1002															
				22/11/2017	<0.1	0.6	18.8	<1	<1	1	<0.1	0.78	979															
				04/12/2017	<0.1	0.6	20.1	<1	<1	1	<0.1	0.885	1012												0.0001	0.0006	CS1	CS1
				19/12/2017	<0.1	0.7	15.3	<1	<1	1.0	<0.1	0.550	1013															
				03/01/2018	<0.1	0.7	19.1	<1	<1	1.0	2.0	0.529	977												Response zone <0.5m do not use for risk assessment			
AEC17-H24-WS105	Rest Airport	0.3-0.8	MG	24/10/2017	<0.1	0.2	20.2	<1	<1	0.9	<0.1	0.435	1002	Response zone <0.5m do not use for risk assessment														
				09/11/2017	<0.1	0.4	19.1	<1	<1	1	<0.1	0.41	1002															
				22/11/2017	<0.1	<0.1	18.8	<1	<1	1	<0.1	0.4	978															
				04/12/2017	<0.1	<0.1	20.3	<1	<1	1	<0.1	0.41	1012															
				19/12/2017	<0.1	0.1	20.2	<1	<1	1.0	<0.1	0.340	1013															
				03/01/2018	<0.1	0.3	19.6	<1	<1	1.0	5.4	0.370	977															

Appendix F
F6 Gas Monitoring Data - MPT 2016 Ground Investigation

Well ID	Location	Response Zone	Strata	Date	Peak CH4 (%v/v)	Peak CO2 (%v/v)	Min O2 (%v/v)	Peak H2S (ppm)	Peak CO (ppm)	Peak PID (ppm)	Peak Flow (l/hr)	Water Level (mbgl)	Atmos Pressure (mBar)	(l/hr)		Characteristic Situation		Maximum (Worst Case)			Worst Case GSV		Worst Case CS	
														CH4	CO2	CH4	CO2	CH4 (%)	CO2 (%)	Flow (l/hr)	CH4	CO2	CH4	CO2
ARP16-MTP-BH101	Off Site	5.0-37.9	Chalk	11/01/2017	<0.1	2.2	5	0	0	1	<0.1	9.67	992	0.0001	0.0022	CS1	CS1	0.1	2.8	0.1	0.0001	0.0028	CS1	CS1
				25/01/2017	0.1	2.7	6.2	0	0	<0.1	12.62	1013	0.0001	0.0027	CS1	CS1								
				01/02/2017	<0.1	1.6	0.7	0	0	1	<0.1	12.84	991	0.0001	0.0016	CS1	CS1							
				08/02/2017	<0.1	0.1	20.8	0	0	<0.1	12.56	1010	0.0001	0.0001	CS1	CS1								
				15/02/2017	<0.1	1.6	8.4	0	0	<0.1	12.550	1011	0.0001	0.0016	CS1	CS1								
				22/02/2017	<0.1	2.8	0.8	0.0	0.0	0.1	12.600	992	0.0001	0.0028	CS1	CS1								
				06/03/2017	<0.1	0.1	20.6	1.0	1.0	<0.1	12.520	990	0.0001	0.0001	CS1	CS1								
ARP16-MTP-BH101	Off Site	1.0-2.5	Made ground	11/01/2017	<0.1	1.8	2.1	0	0	1	<0.1	Dry	992	0.0001	0.0018	CS1	CS1	<0.1	3	0.1	0.0001	0.003	CS1	CS1
				19/01/2017	<0.1	0.4	0.9	0	0	<0.1	Dry	1023	0.0001	0.0004	CS1	CS1								
				25/01/2017	<0.1	2.1	1	0	0	0.1	Dry	1015	0.0001	0.0021	CS1	CS1								
				01/02/2017	<0.1	3	0.5	0	0	1	<0.1	Dry	991	0.0001	0.003	CS1	CS1							
				08/02/2017	<0.1	0.4	9.2	0	0	<0.1	Dry	1010	0.0001	0.0004	CS1	CS1								
				15/02/2017	0.1	0.1	16.7	0	0	<0.1	Dry	1011	0.0001	0.0001	CS1	CS1								
				22/02/2017	<0.1	2.2	1	0	0	<0.1	Dry	992	0.0001	0.0022	CS1	CS1								
06/03/2017	<0.1	1.5	6.2	0	0	0.1	Dry	990	0.0001	0.0015	CS1	CS1												
ARP16-MTP-BH102	Off Site	5.0-25.0	Chalk	11/01/2017	<0.1	0.5	19	11	0	1	<0.1	5.38	995	<0.5m response zone, do not use data for risk assessment										
				25/01/2017	<0.1	0.1	20.8	0	0	<0.1	5.19	1015												
				01/02/2017	<0.1	<0.1	20.3	0	3	1	<0.1	5.14	991											
				08/02/2017	<0.1	0.1	20.4	0	10	<0.1	5.14	1011												
				15/02/2017	<0.1	0.1	20.6	0	5	<0.1	5.15	1014												
				22/02/2017	<0.1	0.1	19.7	0	10	<0.1	5.15	993												
				06/03/2017	<0.1	0.1	20.6	0	13	-0.1	5.13	989												
ARP16-MTP-BH102	Off Site	2.5-4.0	Made ground	11/01/2017	<0.1	0.2	20.1	0	0	1	<0.1	Dry	995	0.0001	0.0002	CS1	CS1	<0.1	0.7	0.1	0.0001	0.0007	CS1	CS1
				25/01/2017	<0.1	0.1	20.7	0	0	<0.1	Dry	1015	-0.0001	-0.0001	CS1	CS1								
				01/02/2017	<0.1	0.1	20.1	0	0	1	<0.1	Dry	992	0.0001	0.0001	CS1	CS1							
				08/02/2017	<0.1	0.1	20.8	0	6	<0.1	Dry	1011	0.0001	0.0001	CS1	CS1								
				15/02/2017	<0.1	0.1	20.3	0	5	<0.1	Dry	1014	0.0001	0.0001	CS1	CS1								
				22/02/2017	<0.1	0.7	17	0	2	-0.1	Dry	993	-0.0001	-0.0007	CS1	CS1								
				06/03/2017	<0.1	0.6	17.6	0	10	<0.1	Dry	989	0.0001	0.0006	CS1	CS1								
ARP16-MTP-BH105	Off Site	20.0-51.5	Chalk	19/01/2017	<0.1	1.5	19.8	0	-1	1	<0.1	39.28	1017	0.0001	0.0015	CS1	CS1	<0.1	2.7	0.1	0.0001	0.0027	CS1	CS1
				08/02/2017	<0.1	1.9	19.9	0	0	<0.1	39.13	1010	0.0001	0.0019	CS1	CS1								
				15/02/2017	<0.1	1.8	20	0	0	<0.1	39.15	1010	0.0001	0.0018	CS1	CS1								
				22/02/2017	<0.1	2.7	19.8	0	0	<0.1	39.14	990	0.0001	0.0027	CS1	CS1								
				06/03/2017	<0.1	1.4	20	0	1	0.1	39.11	981	0.0001	0.0014	CS1	CS1								
ARP16-MTP-BH116	Rest Airport	9.0-45.0	Chalk	11/01/2017	<0.1	0.1	20.4	0	0	1	-0.5	Dry	989	-0.0005	-0.0005	CS1	CS1	<0.1	0.7	-0.5	-0.0005	-0.0035	CS1	CS1
				25/01/2017	<0.1	0.1	20.4	0	0	<0.1	42.66	1009	0.0001	0.0001	CS1	CS1								
				01/02/2017	<0.1	0.7	19.6	0	0	-0.2		988	-0.0002	-0.0014	CS1	CS1								
				08/02/2017	<0.1	0.1	21	0	0	0.1		1007	0.0001	0.0001	CS1	CS1								
				15/02/2017	<0.1	0.1	20.8	0	0	-0.2		1008	-0.0002	-0.0002	CS1	CS1								
				22/02/2017	<0.1	0.1	21.2	0	0	<0.1		989	0.0001	0.0001	CS1	CS1								
				06/03/2017	<0.1	0.1	20.6	0	0	0.2		982	0.0002	0.0002	CS1	CS1								
ARP16-MTP-BH116	Rest Airport	0.45-0.9	Made ground	11/01/2017	<0.1	0.1	20.4	0	0	1	<0.1	Dry	991	0.0001	0.0001	CS1	CS1	<0.1	0.1	0.2	0.0002	0.0002	CS1	CS1
				19/01/2017	<0.1	0.1	18	0	-4	1	<0.1	Dry	1017	0.0001	0.0001	CS1	CS1							
				25/01/2017	<0.1	0.1	20.2	0	0	<0.1	Dry	1009	0.0001	0.0001	CS1	CS1								
				08/02/2017	<0.1	0.1	20.8	0	0	<0.1	Dry	1007	0.0001	0.0001	CS1	CS1								
				15/02/2017	<0.1	0.1	20.4	0	0	<0.1	Dry	1008	0.0001	0.0001	CS1	CS1								
				22/02/2017	<0.1	0.1	17.8	0	0	<0.1	Dry	989	0.0001	0.0001	CS1	CS1								
ARP16-MTP-BH117	Rest Airport	1.5-2.5	Made ground	11/01/2017	<0.1	0.7	19	0	0	<0.1	Dry	989	0.0001	0.0007	CS1	CS1	<0.1	1.8	0.2	0.0002	0.0036	CS1	CS1	
				25/01/2017	<0.1	0.3	20.9	0	0	0.1	Dry	1009	0.0001	0.0003	CS1	CS1								
				01/02/2017	<0.1	1.5	16.9	0	0	0.1	Dry	988	0.0001	0.0015	CS1	CS1								
				08/02/2017	<0.1	0.2	20.7	0	0	0.1	Dry	1007	0.0001	0.0002	CS1	CS1								
				15/02/2017	<0.1	0.4	20.7	0	0	0.2	Dry	1008	0.0002	0.0008	CS1	CS1								
				22/02/2017	<0.1	1.8	15.2	0	0	<0.1	Dry	989	0.0001	0.0018	CS1	CS1								
06/03/2017	<0.1	0.2	20.5	0	0	0.1	Dry	982	0.0001	0.0002	CS1	CS1												

Appendix F
F7 Gas Monitoring Data - Century Park 2017 Ground Investigation

Well ID	Location	Response Zone	Strata	Date	Peak CH4 (%v/v)	Peak CO2 (%v/v)	Min O2 (%v/v)	Peak H2S (ppm)	Peak CO (ppm)	Peak PID (ppm)	Peak Flow (l/hr)	Water Level (mbgl)	Atmos Pressure (mBar)	Gas Screening Value - GSV (l/hr)		Characteristic Situation		Maximum (Worst Case)			Worst Case GSV		Worst Case CS	
														CH4	CO2	CH4	CO2	CH4 (%)	CO2 (%)	Flow (l/hr)	CH4	CO2	CH4	CO2
BH11	Area B - WVP	29.0-39.0	Chalk	10/11/2016	<0.1	1.6	15.5	0	0		<0.1	Dry	988	0.0001	0.0016	CS1	CS1	<0.1	2	0.1	0.0001	0.002	CS1	CS1
				16/11/2016	<0.1	2	14.7	0	0		<0.1	Dry	997	0.0001	0.002	CS1	CS1							
				22/11/2016	<0.1	0.1	20.7	0	0		<0.1	Dry	982	0.0001	0.0001	CS1	CS1							
				01/12/2016	<0.1	1.3	17	0	0		<0.1	Dry	1011	0.0001	0.0013	CS1	CS1							
				06/12/2016	<0.1	1.0	18.3	0	0		<0.1	Dry	1009	0.0001	0.001	CS1	CS1							
BH12	Area B - WVP	15.0-41.1	Chalk	10/11/2016	<0.1	1.9	14.6	0.0	0.0		<0.1	28.79	989	0.0001	0.0019	CS1	CS1	<0.1	3.7	0.1	0.0001	0.0037	CS1	CS1
				16/11/2016	<0.1	0.6	19.8	0	0		0.1	28.35	997	0.0001	0.0006	CS1	CS1							
				22/11/2016	<0.1	2.5	16	0	0		<0.1	28.36	987	0.0001	0.0025	CS1	CS1							
				30/11/2016	<0.1	0.4	20.8	0	0		<0.1	27.30	1017	0.0001	0.0004	CS1	CS1							
				06/12/2016	<0.1	3.7	13.6	0	0		<0.1	28.13	1011	0.0001	0.0037	CS1	CS1							
BH24	Area B - WVP	20.0-42.58	Chalk	10/11/2016	<0.1	1.3	19.9	0	1		<0.1	29.91	989	0.0001	0.0013	CS1	CS1	0.1	2.5	0.1	0.0001	0.0025	CS1	CS1
				16/11/2016	<0.1	0.6	21.0	0	0		<0.1	29.54	998	0.0001	0.0006	CS1	CS1							
				22/11/2016	0.1	2.5	19.5	0	0		<0.1	29.52	1002	0.0001	0.0025	CS1	CS1							
				30/11/2016	<0.1	0.2	20.8	0	0		<0.1	29.21	1017	0.0001	0.0002	CS1	CS1							
				06/12/2016	<0.1	1.8	19.3	0	0		<0.1	29.44	1011	0.0001	0.0018	CS1	CS1							
BH27	Area B - WVP	30.7-53.7	Chalk	10/11/2016	<0.1	1.4	19.1	0	1		<0.1	41.69	987	0.0001	0.0014	CS1	CS1	0.1	1.4	0.6	0.0006	0.0084	CS1	CS1
				16/11/2016	<0.1	0.3	20.7	0	0		0.6	41.75	998	0.0006	0.0018	CS1	CS1							
				22/11/2016	0.1	0.2	20.5	0	0		<0.1	41.52	981	0.0001	0.0002	CS1	CS1							
				30/11/2016	<0.1	0.2	20.1	0	0		0.1	41.70	1019	0.0001	0.0002	CS1	CS1							
				06/12/2016	<0.1	0.3	20.8	0	0		0.1	42.05	1009	0.0001	0.0003	CS1	CS1							
BH29	Area B - WVP	20.0-44.3	Chalk	10/11/2016	<0.1	0.8	19.6	0	5		<0.1	33.64	989	0.0001	0.0008	CS1	CS1	0.1	1.8	0.1	0.0001	0.0018	CS1	CS1
				16/11/2016	<0.1	0.7	20.5	0	0		-0.1	33.37	998	-0.0001	-0.0007	CS1	CS1							
				22/11/2016	<0.1	1.7	19.5	0	0		0.1	33.30	984	0.0001	0.0017	CS1	CS1							
				30/11/2016	0.1	1.8	16.9	0	0		<0.1	33.21	1018	0.0001	0.0018	CS1	CS1							
				06/12/2016	<0.1	1.3	19.9	0	1		<0.1	33.52	1011	0.0001	0.0013	CS1	CS1							
BH32	Area B - WVP	20.3-41.0	Chalk	10/11/2016	<0.1	1.0	18.8	0	0		<0.1	27.46	989	0.0001	0.001	CS1	CS1	0.1	1.2	0.1	0.0001	0.0012	CS1	CS1
				16/11/2016	<0.1	0.2	21.1	0	0		<0.1	27.34	998	0.0001	0.0002	CS1	CS1							
				23/11/2016	0.1	1.2	18.8	0	0		<0.1	27.05	1002	0.0001	0.0012	CS1	CS1							
				30/11/2016	<0.1	0.7	19.4	0	0		0.1	26.60	1017	0.0001	0.0007	CS1	CS1							
				06/12/2016	<0.1	0.9	18.5	0	0		<0.1	26.44	1011	0.0001	0.0009	CS1	CS1							
BH50	Area B - WVP	9.5-23.5	Chalk	10/11/2016	<0.1	0.8	20.2	0	7		<0.1	16.19	987	0.0001	0.0008	CS1	CS1	0.2	1.3	0.1	0.0002	0.0013	CS1	CS1
				16/11/2016	<0.1	0.5	20.9	0	0		<0.1	16.42	1001	0.0001	0.0005	CS1	CS1							
				23/11/2016	<0.1	1.3	19.6	0	0		0.1	16.17	1003	0.0001	0.0013	CS1	CS1							
				01/12/2016	0.2	0.9	20.7	0	0		<0.1	16.07	1017	0.0002	0.0009	CS1	CS1							
				06/12/2016	<0.1	1.1	19.7	0	0		<0.1	16.18	1011	0.0001	0.0011	CS1	CS1							
BH51	Area B - WVP	15.0-32.0	Chalk	10/11/2016	<0.1	1.1	19.3	0	4		-0.1	21.28	987	-0.0001	-0.0011	CS1	CS1	0.1	1.7	0.1	0.0001	0.0017	CS1	CS1
				16/11/2016	<0.1	0.1	21.4	0	0		0.1	21.08	996	0.0001	0.0001	CS1	CS1							
				22/11/2016	<0.1	1.7	18.9	0	0		0.1	21.15	985	0.0001	0.0017	CS1	CS1							
				30/11/2016	0.1	<0.1	20.3	0	0		<0.1	21.10	1019	0.0001	0.0001	CS1	CS1							
				06/12/2016	<0.1	1.2	19.8	0	0		<0.1	21.28	1009	0.0001	0.0012	CS1	CS1							
BH55	Area B - WVP	29.0-52.7	Chalk	10/11/2016	<0.1	0.3	20.2	0	0		<0.1	38.55	989	0.0001	0.0003	CS1	CS1	0.1	2.2	0.1	0.0001	0.0022	CS1	CS1
				16/11/2016	<0.1	2.2	16.8	0	0		0.1	38.10	997	0.0001	0.0022	CS1	CS1							
				22/11/2016	<0.1	0.1	20.9	0	0		-0.1	37.92	984	-0.0001	-0.0001	CS1	CS1							
				30/11/2016	0.1	0.2	20.2	0	0		<0.1	37.54	1016	0.0001	0.0002	CS1	CS1							
				06/12/2016	<0.1	0.1	20.8	0	0		<0.1	38.16	1011	0.0001	0.0001	CS1	CS1							

Appendix F
F8 Gas Monitoring Data - Landfill 2017 Ground Investigation

Well ID	Location	Response Zone	Strata	Date	Peak CH4 (%v/v)	Peak CO2 (%v/v)	Min O2 (%v/v)	Peak H2S (ppm)	Peak CO (ppm)	Peak PID (ppm)	Peak Flow (l/hr)	Water Level (mbgl)	Atmos Pressure (mBar)	(l/hr)		Characteristic Situation		Maximum (Worst Case)			Worst Case GSV		Worst Case CS	
														CH4	CO2	CH4	CO2	CH4 (%)	CO2 (%)	Flow (l/hr)	CH4	CO2	CH4	CO2
LF-BH01	Area B - WVP	27.5-57.5	Chalk	10/11/2016	<0.1	5	9.1	0	1		<0.1	38.15	989	0.0001	0.005	CS1	CS1	0.1	5.4	0.1	0.0001	0.0054	CS1	CS1
				16/11/2016	<0.1	5.4	10.4	1	0		0.1	39.73	997	0.0001	0.0054	CS1	CS1							
				22/11/2016	<0.1	2.8	8.9	0	0		0.1	37.14	982	0.0001	0.0028	CS1	CS1							
				01/12/2016	0.1	5.4	9.6	0	0		<0.1	39.24	1013	0.0001	0.0054	CS1	CS1							
				06/12/2016	<0.1	0.1	20.9	0	0		<0.1	39.950	1009	0.0001	0.0001	CS1	CS1							
LF-BH05	Area D - LLAOL Compound	25.0-58.0	Chalk	07/02/2017	0.4	1.1	15.3	0.0	2.0		<0.1	33.17	994	0.0004	0.0011	CS1	CS1	0.4	1.1	0.2	0.0008	0.0022	CS1	CS1
				15/03/2017	<0.1	<0.1	20.8	0	0		-0.1	33.6	1015	-0.0001	-0.0001	CS1	CS1							
				06/04/2017	<0.1	0.1	20.8	0	0		0.2	34.67	1012	0.0002	0.0002	CS1	CS1							
				16/05/2017	<0.1	0.1	20.9	0	1		-0.1	38.40	1005	-0.0001	-0.0001	CS1	CS1							
LF-BH10	Area A - Landfill	25.0-56.0	Chalk	06/02/2017	<0.1	0.4	20.8	0	0		0.1	29.63	999	0.0001	0.0004	CS1	CS1	<0.1	2.6	0.1	0.0001	0.0026	CS1	CS1
				15/03/2017	<0.1	1.7	17.9	0	0		<0.1	29.78	1015	0.0001	0.0017	CS1	CS1							
				06/04/2017	<0.1	0.4	20.9	0	0		<0.1	30.00	1013	0.0001	0.0004	CS1	CS1							
				17/05/2017	<0.1	2.6	17.9	0	0		<0.1	31.04	999	0.0001	0.0026	CS1	CS1							
LF-BH13	Area B - WVP	20.0-35.0	Chalk	10/11/2016	0.2	1.3	17.7	0	0		<0.1	21.91	989	0.0002	0.0013	CS1	CS1	0.2	1.7	0.1	0.0002	0.0017	CS1	CS1
				16/11/2016	<0.1	1.3	16.0	0	0		0.1	19.59	997	Response zone flooded										
				22/11/2016	<0.1	1.7	13.7	0	0		<0.1	21.57	987	0.0001	0.0017	CS1	CS1							
				30/11/2016	<0.1	0.1	20.7	0	0		<0.1	21.04	1019	0.0001	0.0001	CS1	CS1							
				06/12/2016	<0.1	0.4	19.9	0	0		0.1	21.40	1011	0.0001	0.0004	CS1	CS1							

Appendix F
F9 Gas Monitoring Data - Access Road Ground Investigation

Well ID	Location	Response Zone	Strata	Date	Peak CH4 (%v/v)	Peak CO2 (%v/v)	Min O2 (%v/v)	Peak H2S (ppm)	Peak CO (ppm)	Peak PID (ppm)	Peak Flow (l/hr)	Water Level (mBgl)	Atmos Pressure (mBar)	(l/hr)		Characteristic Situation		Maximum (Worst Case)			Worst Case GSV		Worst Case CS		
														CH4	CO2	CH4	CO2	CH4 (%)	CO2 (%)	Flow (l/hr)	CH4	CO2	CH4	CO2	
PFCP31	Off Site	2.0-10.0	Chalk	11/11/2016	<0.1	0.1	20.8	0	0		-0.1	Dry	1007	-0.0001	-0.0001	CS1	CS1	<0.1	0.6	0.1	0.0001	0.0006	CS1	CS1	
				16/11/2016	<0.1	0.4	20.2	0	0		-0.1	9.6	999	-0.0001	-0.0004	CS1	CS1								
				22/11/2016	<0.1	0.6	20.6	0	0		<0.1	9.59	984	0.0001	0.0006	CS1	CS1								
PFCP33	Off Site	2.0-10.0	Chalk	11/11/2016	<0.1	0.2	20.8	0.0	0.0		0.2	9.64	1007	0.0002	0.0004	CS1	CS1	<0.1	0.3	0.2	0.0002	0.0006	CS1	CS1	
				16/11/2016	<0.1	0.1	20.7	0	0		-0.1	Dry	999	-0.0001	-0.0001	CS1	CS1								
				22/11/2016	<0.1	0.3	20.2	0	0		-0.1	Dry	984	-0.0001	-0.0003	CS1	CS1								
PFCP36	Off Site	5.0-6.0	Chalk	10/11/2016	<0.1	6.2	16.2	0	1		0.2	Dry	987	0.0002	0.0124	CS1	CS1	<0.1	6.2	0.2	0.0002	0.0124	CS1	CS1	
				16/11/2016	<0.1	2.7	18.2	0	1		0.2	Dry	996	0.0002	0.0054	CS1	CS1								
				22/11/2016	<0.1	0.1	20.8	0	0		<0.1	Dry	983	0.0001	0.0001	CS1	CS1								
PFCPRC02	Rest Airport	3.0-10.0	Chalk	10/11/2016	<0.1	1.5	19.1	1	3		0.2	Dry	986	0.0002	0.003	CS1	CS1	0.1	2.2	0.2	0.0001	0.0044	CS1	CS1	
				16/11/2016	<0.1	2.2	18.6	0	0		0.2	Dry	996	0.0002	0.0044	CS1	CS1								
				22/11/2016	0.1	1.8	17.8	0	0		-0.1	Dry	982	-0.0001	-0.0018	CS1	CS1								
PFCPRC07	Rest Airport	2.0-10.0	Made ground/ Chalk	10/11/2016	<0.1	1.1	19.9	0	0		0.1	Dry		0.0001	0.0011	CS1	CS1	<0.1	1.2	0.2	0.0002	0.0024	CS1	CS1	
				16/11/2016	<0.1	1.2	19.3	0	0		<0.1	Dry	996	0.0001	0.0012	CS1	CS1								
				22/11/2016	<0.1	0.6	18.6	0	0		0.2	Dry	983	0.0002	0.0012	CS1	CS1								
PFCPRC18	Off Site	3.0-15.0	Chalk	11/11/2016	<0.1	2.4	17.0	1	0		0.1	Dry	1003	0.0001	0.0024	CS1	CS1	<0.1	2.4	-0.2	-0.0002	-0.0048	CS1	CS1	
				16/11/2016	<0.1	2.1	17.8	0	0		-0.1	Dry	995	-0.0001	-0.0021	CS1	CS1								
				22/11/2016	<0.1	2.7	18.1	0	0		-0.2	Dry	983	-0.0002	-0.0054	CS1	CS1								
PFCPRC24	Off Site	1.0-15.5	Made Ground	10/11/2016	<0.1	0.5	20.3	1	2		0.1	Dry	987	0.0001	0.0005	CS1	CS1	<0.1	0.5	-0.4	-0.0004	0.002	CS1	CS1	
				16/11/2016	<0.1	0.4	20.8	0	0		-0.4	Dry	996	-0.0004	-0.0016	CS1	CS1								
				22/11/2016	<0.1	0.3	20.1	0	0		0.1	Dry	976	0.0001	0.0003	CS1	CS1								
PFCPRC25	Off Site	1.5-17.0	Made Ground	10/11/2016	<0.1	4.0	9.2	0	1		<0.1	16.84	986	0.0001	0.004	CS1	CS1	<0.1	4.1	0.2	0.0002	0.0082	CS1	CS1	
				16/11/2016	<0.1	4.1	12.5	0	0		0.2	16.85	994	0.0002	0.0082	CS1	CS1								
				22/11/2016	<0.1	3.9	12	0	1		0.1	16.75	976	0.0001	0.0039	CS1	CS1								
PFCPRC27	Off Site	1.0-15.0	Made ground	16/11/2016	<0.1	0.3	20.8	0	0		-0.1	14.51	994	-0.0001	-0.0003	CS1	CS1	<0.1	0.3	-0.1	-0.0001	-0.0003	CS1	CS1	
PFCPRC37	Area A - Landfill	12.5-22.5	Chalk	03/10/2016	26.8	15.3	0.2						Dry	1010					37.9	15.3	-1.5	-0.5685	-0.2295	CS2	CS2
				10/10/2016	24.1	13.8	1.4				0.8	Dry	1005	0.1928	0.1104	CS2	CS2								
				17/10/2016	33.4	14.7	0.7				<0.1	Dry	997	0.0334	0.0147	CS1	CS1								
				24/10/2016	31.4	14.3	0.9				<0.1	Dry	992	0.0314	0.0143	CS1	CS1								
				31/10/2016	25.2	13.5	1.9				<0.1	Dry	1008	0.0252	0.0135	CS1	CS1								
				07/11/2016	37.9	15.3	0.2				-1.5	Dry	987	-0.5685	-0.2295	CS2	CS2								
				10/11/2016	29.9	11.6	2.3	0	1		<0.1	Dry	987	0.0299	0.0116	CS1	CS1								
				16/11/2016	16.7	11.1	3.3	0	1		0.1	Dry	995	0.0167	0.0111	CS1	CS1								
				22/11/2016	11.5	13.0	4.0	0	0		-0.4	Dry	986	-0.046	-0.052	CS1	CS1								
PFCPRC38 (SP)	Area A - Landfill	3.0-13.0	Made Ground	03/10/2016	44.5	13.9	3.0						Dry	1012					48	16.9	-0.4	-0.1952	-0.0676	CS2	CS2
				10/10/2016	48.0	16.8	0.7				<0.1	11.56	1005	0.048	0.0168	CS2	CS2								
				17/10/2016	10.6	4.0	16.2				<0.1	Dry	998	0.0106	0.004	CS2	CS1								
				24/10/2016	11.5	4.4	15.8				<0.1	12.05	992	0.0115	0.0044	CS2	CS1								
				31/10/2016	47.2	16.9	0.4				-0.3	12.40	1008	-0.1416	-0.0507	CS2	CS2								
				07/11/2016	42.7	14.5	11.0				<0.1	12.64	994	0.0427	0.0145	CS2	CS2								
				10/11/2016	46.8	13.6	0.4	0	1		-0.1	12.60	988	-0.0468	-0.0136	CS2	CS2								
				16/11/2016	46.6	12.7	3.2	1	1		<0.1	11.80	996	0.0466	0.0127	CS2	CS2								
				22/11/2016	0.1	0.5	20.8	0	0		-0.4	11.28	985	-0.0004	-0.002	CS1	CS1								
PFCPRC39	Area A - Landfill	19.0-31.0	Landfill	03/10/2016	<0.1	0.1	20.6				-6.0	Dry	1011	-0.006	-0.006	CS1	CS1	46	19.5	-6	-2.76	-1.17	CS3	CS3	
				10/10/2016	35.3	17.8	0.2				3.6	Dry	1005	1.2708	0.6408	CS3	CS2								
				17/10/2016	15.5	6.5	14.2				0.2	Dry	998	0.031	0.013	CS2	CS2								
				24/10/2016	<0.1	5.6	15.2				<0.1	Dry	991	0.0001	0.0056	CS1	CS2								
				31/10/2016	46.0	19.5	0.8				<0.1	Dry	1008	0.046	0.0195	CS2	CS2								
				07/11/2016	25.3	14.0	5.6				-1.1	Dry	993	-0.2783	-0.154	CS2	CS2								
				10/11/2016	42.0	17.1	0.8	0	2		<0.1	Dry	986	0.042	0.0171	CS2	CS2								
				16/11/2016	1.3	12.5	1.2	1	0		0.1	Dry	995	0.0013	0.0125	CS2	CS2								
				22/11/2016	<0.1	0.1	20.7	0	2		-0.4	Dry	985	-0.0004	-0.0004	CS1	CS1								
PFCPRC40 (SP)	Area A - Landfill	3.0-16.0	Landfill	03/10/2016	18.9	14.5	4.7				-4.6	Dry	1014	-0.8694	-0.667	CS3	CS2	29.7	24.2	-5.7	-1.6929	-1.3794	CS3	CS3	
				10/10/2016	31.8	18.0	0.4				-2.9	Dry	1006	-0.9222	-0.522	CS3	CS2								
				17/10/2016	20.7	14.5	3.0				<0.1	Dry	996	0.0207	0.0145	CS2	CS2								
				24/10/2016	29.2	16.7	0.3				<0.1	Dry	991	0.0292	0.0167	CS2	CS2								
				31/10/2016	29.7	16.9	0.2				-5.7	Dry	1007	-1.6929	-0.9633	CS3	CS3								
				07/11/2016	27.6	16.4	0.1				<0.1	Dry	992	0.0276	0.0164	CS2	CS2								
				10/11/2016	24.9	13.8	0.3	0	2		0.1	14.32	988	0.0249	0.0138	CS2	CS2								
				16/11/2016	25.7	24.2	0.5	0	3		0.1	14.43	995	0.0257	0.0242	CS2	CS2								
				22/11/2016	23.0	14.8	0.1	0	1		-0.1	14.34	983	-0.023	-0.0148	CS2	CS2								
PFCPRC41	Area A - Landfill	3.0-9.0	Landfill	03/10/2016	58.3	19.7	<0.1						Dry	1010											

Appendix F
F9 Gas Monitoring Data - Access Road Ground Investigation

Well ID	Location	Response Zone	Strata	Date	Peak CH4 (%v/v)	Peak CO2 (%v/v)	Min O2 (%v/v)	Peak H2S (ppm)	Peak CO (ppm)	Peak PID (ppm)	Peak Flow (l/hr)	Water Level (m bgl)	Atmos Pressure (mBar)	(l/hr)		Characteristic Situation		Maximum (Worst Case)			Worst Case GSV		Worst Case CS		
														CH4	CO2	CH4	CO2	CH4 (%)	CO2 (%)	Flow (l/hr)	CH4	CO2	CH4	CO2	
				17/10/2016	25.7	10.6	10.2				<0.1	Dry	998	0.0257	0.0106	CS2	CS2								
				24/10/2016	11.4	6.6	15.0				<0.1	15.59	992	0.0114	0.0066	CS2	CS2								
				31/10/2016	46.2	19.4	0.1						1008	-0.4158	-0.1746	CS2	CS2								
				07/11/2016	32.7	12.7	8.1						991	-1.0791	-0.4191	CS3	CS2								
				10/11/2016	41.8	14.6	2.5	0	3			<0.1	15.28	987	0.0418	0.0146	CS2								CS2
				16/11/2016	35.6	17.7	0.3	0	4			0.3	15.64	995	0.1068	0.0531	CS2								CS2
				22/11/2016	22.7	11.0	9.1	0	1			<0.1	14.85	986	0.0227	0.011	CS2								CS2
PFCPRC42 (SP)	Area A - Landfill	13.0-22.5	Chalk	03/10/2016	<0.1	0.1	20.8					Dry	1013					53.1	46.8	-2.8	-1.4868	-1.3104	CS3	CS3	
				10/10/2016	40.9	17.0	5.8				<0.1	Dry	1005	0.0409	0.017	CS2	CS2								
				17/10/2016	<0.1	0.3	20.7				<0.1	Dry	996	0.0001	0.0003	CS1	CS1								
				24/10/2016	34.2	14.4	8.3				<0.1	Dry	991	0.0342	0.0144	CS2	CS2								
				31/10/2016	53.1	22.1	2.5				1.0	Dry	1008	0.531	0.221	CS2	CS2								
				07/11/2016	25.1	12.1	9.4					-2.8	Dry	981	-0.7028	-0.3388	CS3								CS2
				10/11/2016	19.7	9.2	10.5	1	1			0.1	Dry	988	0.0197	0.0092	CS2								CS2
				16/11/2016	40.8	46.8	4.1	0	3			0.2	Dry	994	0.0816	0.0936	CS2								CS2
22/11/2016	30.4	13.6	7.5	0	2			<0.1	Dry	984	0.0304	0.0136	CS2	CS2											
PFCPRC43 (SP)	Area A - Landfill	5.0-9.0	Landfill	03/10/2016	40.9	25.1	0.6					Dry	1012					42.7	27.2	0.3	0.1281	0.0816	CS2	CS2	
				10/10/2016	29.7	21.8	2.8				<0.1	Dry	1007	0.0297	0.0218	CS2	CS2								
				17/10/2016	37.8	24.4	1.2				<0.1	Dry	998	0.0378	0.0244	CS2	CS2								
				24/10/2016	24.1	15.0	6.9				<0.1	8.65	991	0.0241	0.015	CS2	CS2								
				31/10/2016	29.9	24.3	1.0				0.3	Dry	1008	0.0897	0.0729	CS2	CS2								
				07/11/2016	42.7	27.2	<0.1				<0.1	Dry	991	0.0427	0.0272	CS2	CS2								
				10/11/2016	34.1	19.0	2.9	1	1			0.1	Dry	991	0.0341	0.019	CS2								CS2
				16/11/2016	18.0	25.8	4.4	0	1			0.1	8.96	995	0.018	0.0258	CS2								CS2
22/11/2016	38.4	22.7	0.9	0	1			-0.1	8.97	986	-0.0384	-0.0227	CS2	CS2											
PFCPRC44	Area A - Landfill	3.0-8.5	Landfill	03/10/2016	29.4	22.1	2.7					Dry	1008					31	23.5	-2.4	-0.744	-0.564	CS3	CS2	
				10/10/2016	26.4	23.1	1.2				<0.1	Dry	1005	0.0264	0.0231	CS2	CS2								
				17/10/2016	31.0	23.5	1.0				<0.1	Dry	996	0.031	0.0235	CS2	CS2								
				24/10/2016	28.6	23.1	0.8				<0.1	8.15	991	0.0286	0.0231	CS2	CS2								
				31/10/2016	22.0	22.5	0.6				<0.1	Dry	1007	0.022	0.0225	CS2	CS2								
				07/11/2016	17.9	17.3	5.9				-2.4	Dry	991	-0.4296	-0.4152	CS2	CS2								
				10/11/2016	18.7	15.6	3.6	1	1			<0.1	8.46	988	0.0187	0.0156	CS2								CS2
				16/11/2016	14.1	19.4	0.3	0	2			0.2	8.46	994	0.0282	0.0388	CS2								CS2
22/11/2016	24.0	18.6	1.4	0	2			0.1	8.46	983	0.024	0.0186	CS2	CS2											
PFCPRC45 (SP)	Area A - Landfill	12.3-22.3	Chalk	03/10/2016	<0.1	2.3	18.8					Dry	1010					2.4	8.2	-1.9	-0.0456	-0.1558	CS2	CS2	
				10/10/2016	0.7	0.7	20.2				<0.1	Dry	1005	0.0007	0.0007	CS1	CS1								
				17/10/2016	<0.1	0.6	20.5				<0.1	Dry	996	0.0001	0.0006	CS1	CS1								
				24/10/2016	<0.1	0.3	20.5				<0.1	22.01	991	0.0001	0.0003	CS1	CS1								
				31/10/2016	0.7	0.9	19.4				<0.1	Dry	1007	0.0007	0.0009	CS1	CS1								
				07/11/2016	1.7	2.1	17.9					-1.9	Dry	991	-0.0323	-0.0399	CS2								CS1
				10/11/2016	0.8	2.4	18.5	0	1			0.1	22.37	988	0.0008	0.0024	CS1								CS1
				16/11/2016	2.4	6.8	13.4	0	0			0.4	22.22	994	0.0096	0.0272	CS2								CS2
22/11/2016	2.2	8.2	11.7	0	1			0.1	22.23	984	0.0022	0.0082	CS2	CS2											
PFCPRC46 (SP)	Area B	6.0-12.0	Chalk	03/10/2016	<0.1	0.1	20.8					Dry	1008					0.1	2.7	-0.8	-0.0008	-0.0216	CS1	CS1	
				10/10/2016	<0.1	2.4	17.0				<0.1	Dry	1005	0.0001	0.0024	CS1	CS1								
				17/10/2016	<0.1	0.1	19.7				<0.1	Dry	997	0.0001	0.0001	CS1	CS1								
				24/10/2016	<0.1	0.1	19.7				<0.1	Dry	992	0.0001	0.0001	CS1	CS1								
				31/10/2016	<0.1	2.7	15.5				<0.1	Dry	1007	0.0001	0.0027	CS1	CS1								
				07/11/2016	<0.1	0.1	20.3				<0.1	Dry	992	0.0001	0.0001	CS1	CS1								
				11/11/2016	0.1	1.3	19.1	0	0			-0.8	Dry	1004	-0.0008	-0.0104	CS1								CS1
				16/11/2016	<0.1	0.1	20.8	1	0			<0.1	Dry	996	0.0001	0.0001	CS1								CS1
22/11/2016	<0.1	0.1	20.7	0	0			<0.1	Dry	983	0.0001	0.0001	CS1	CS1											
PFWS02 (SP)	Off Site	2.0-4.0	Chalk	10/10/2016	<0.1	6.2	11.9	0	1		-0.1	Dry	988	-0.0001	-0.0062	CS1	CS1	<0.1	6.2	0.2	0.0002	0.0124	CS1	CS1	
				16/11/2016	<0.1	5.3	12.7	1	2			0.2	Dry	996	0.0002	0.0106	CS1								CS1
				22/11/2016	<0.1	4.3	14.5	0	1			<0.1	4.42	976	0.0001	0.0043	CS1								CS1
PFWS04 (SP)	Off Site	1.0-5.75	Clay with flints	10/11/2016	<0.1	2.0	13.4	1	0		<0.1	Dry	989	0.0001	0.002	CS1	CS1	<0.1	3.1	-0.1	-0.0001	-0.0031	CS1	CS1	
				16/11/2016	<0.1	2.2	13.0	0	0			-0.1	Dry	996	-0.0001	-0.0022	CS1								CS1
				22/11/2016	<0.1	3.1	12.9	0	1			<0.1	5.66	976	0.0001	0.0031	CS1								CS1
PFWS05 (SP)	Off Site	1.7-5.7	Chalk	10/11/2016	<0.1	2.6	16.9	0	2		<0.1	Dry	983	0.0001	0.0026	CS1	CS1	<0.1	2.8	0.2	0.0002	0.0056	CS1	CS1	
				16/11/2016	<0.1	2.8	16.1	0	0			<0.1	Dry	996	0.0001	0.0028	CS1								CS1
				22/11/2016	<0.1	2.7	16.4	0	0			0.2	Dry	976	0.0002	0.0054	CS1								CS1
PFWS08	Off Site	1.5-7.0	Clay with flints	11/11/2016	<0.1	3.0	16.6	0	0		1.1	7.00	1003	0.0011	0.033	CS1	CS1	<0.1	4.2	1.1	0.0011	0.0462	CS1	CS1	
				16/11/2016	<0.1	4.2	14.6	0	3			0.1	Dry	996	0.0001	0.0042	CS1								CS1
PFWS13	Rest Airport	4.0-7.0	Chalk	11/11/2016	<0.1	2.7	17.7	0	1		<0.1	Dry	1002	0.0001	0.0027	CS1	CS1	<0.1	2.7	-0.3	-0.0003	-0.0081	CS1	CS1	
				16/11/2016	<0.1	1.8	18.7	0	1			<0.1	Dry	994	0.0001	0.0018	CS1								CS1
				22/11/2016	<0.1	2.7	18.5	0	0			-0.3	Dry	983	-0.0003	-0.0081	CS1								CS1
PFWS26	Rest Airport	2.5-7.0	Chalk	11/11/2016	<0.1	0.1	20.8	0	0		<0.1	Dry	1003	0.0001	0.0001	CS1	CS1	<0.1	2.8	0.1	0.0001	0.0028	CS1	CS1	
				16/11/2016	<0.1	0.1	20.6	0	0			<0.1	Dry	997	0.0001	0.0001	CS1								CS1
				22/11/2016	<0.1	2.8	18.6	0	0			0.1	Dry	983	0.0001	0.0028	CS1								CS1
PFWS30	Rest Airport	2.75-3.75	Clay with flints / Chalk	11/11/2016	<0.1	0.1	20.7	0	0		<0.1	Dry	1003	0.0001	0.0001	CS1	CS1	<0.1	0.8	0.1	0.0001	0.0008	CS1	CS1	
				16/11/2016	<0.1	0.1	20.6	0	0			0.1	Dry	997	0.0001	0.0001	CS1								CS1
				22/11/2016	<0.1	0.8	20.0	0	0			<0.1	Dry	983	0.0001	0.0008	CS1								CS1

Appendix F
F10 Gas Monitoring Data - Concept 2015 Ground Investigation

Well ID	Location	Response Zone	Strata	Date	Peak CH4 (%v/v)	Peak CO2 (%v/v)	Min O2 (%v/v)	Peak H2S (ppm)	Peak CO (ppm)	Peak PID (ppm)	Peak Flow (l/hr)	Water Level (mbgl)	Atmos Pressure (mBar)	(l/hr)		Characteristic Situation		Maximum (Worst Case)			Worst Case GSV		Worst Case CS										
														CH4	CO2	CH4	CO2	CH4 (%)	CO2 (%)	Flow (l/hr)	CH4	CO2	CH4	CO2									
BH01	Rest Airport	0.5-1.5	MG/ CwF	07/11/2014	<0.1	<0.1	15.6	0	0		<0.1	1.07	966	0.0001	0.0001	CS1	CS1	<0.1	0.5	0.1	0.0001	0.0005	CS1	CS1									
				09/12/2014	<0.1	<0.1	16	0	0		<0.1	Dry	997	0.0001	0.0001	CS1	CS1																
				02/02/2015	<0.1	0.5	13.5	0	0		<0.1	1.35	982	0.0001	0.0005	CS1	CS1																
				26/02/2015	<0.1	0.7	15.7	0	0		<0.1	0.91	985	<0.5m response zone, do not use data for risk assessment																			
BH03	Rest Airport	0.5-1.5	MG/ CwF	07/11/2014	<0.1	<0.1	19.7	0.0	0.0		<0.1	0.61	966					-	-	-	-	-	-	-									
				09/12/2014	<0.1	<0.1	18.9	0	0		<0.1	0.73	997	<0.5m response zone, do not use data for risk assessment																			
				02/02/2015	<0.1	<0.1	18.1	0	0		<0.1	0.73	982																				
				26/02/2015	<0.1	<0.1	16.9	0	0		<0.1	0.81	985																				
BH04	Rest Airport	1.0-4.0	CwF	07/11/2014	<0.1	2.3	11.3	0	0		<0.1	Dry	969	0.0001	0.0023	CS1	CS1	<0.1	2.3	0.1	0.0001	0.0023	CS1	CS1									
				09/12/2014	<0.1	1.5	15.8	0	0		<0.1	Dry	994	0.0001	0.0015	CS1	CS1																
				02/02/2015	<0.1	0.3	19.6	0	0		<0.1	Dry	982	0.0001	0.0003	CS1	CS1																
				26/02/2015	<0.1	0.5	18.3	0	0		<0.1	Dry	985	0.0001	0.0005	CS1	CS1																
BH06	Rest Airport	0.5-1.5	Concrete / CwF	07/11/2014	<0.1	0.2	15.7	0	0		<0.1	Dry	966	0.0001	0.0002	CS1	CS1	<0.1	0.4	0.1	0.0001	0.0004	CS1	CS1									
				09/12/2014	<0.1	0.4	12.7	0	0		<0.1	Dry	997	0.0001	0.0004	CS1	CS1																
				02/02/2015	<0.1	0.3	15.3	0	0		<0.1	Dry	982	0.0001	0.0003	CS1	CS1																
				26/02/2015	<0.1	0.2	15.7	0	0		<0.1	1.40	985	0.0001	0.0002	CS1	CS1																
BH07A	Rest Airport	0.8-1.5	MG/ CwF	07/11/2014	<0.1	0.5	16.4	0	0		<0.1	Dry	967	0.0001	0.0005	CS1	CS1	<0.1	0.5	0.1	0.0001	0.0005	CS1	CS1									
				09/12/2014	<0.1	0.1	18.7	0	0		<0.1	Dry	994	0.0001	0.0001	CS1	CS1																
				02/02/2015	<0.1	0.3	18.8	0	0		<0.1	Dry	982	0.0001	0.0003	CS1	CS1																
				26/02/2015	<0.1	0.5	18.5	0	0		<0.1	Dry	985	0.0001	0.0005	CS1	CS1																
BH08	Rest Airport	1.0-7.0	CwF	07/11/2014	<0.1	7.9	8.2	0	0		<0.1	Dry	968	0.0001	0.0079	CS1	CS1	<0.1	7.9	0.1	0.0001	0.0079	CS1	CS1									
				09/12/2014	<0.1	0.8	19.4	0	0		<0.1	Dry	995	0.0001	0.0008	CS1	CS1																
				02/02/2015	<0.1	0.5	20.0	0	0		<0.1	Dry	982	0.0001	0.0005	CS1	CS1																
				26/02/2015	<0.1	0.9	15.7	0	0		<0.1	Dry	985	0.0001	0.0009	CS1	CS1																
WS05	Rest Airport	0.5-1.5	MG	07/11/2014	<0.1	<0.1	20.0	0	0		<0.1	Dry	967	0.0001	0.0001	CS1	CS1	<0.1	<0.1	0.1	0.0001	0.0001	CS1	CS1									
				09/12/2014	<0.1	<0.1	19.7	0	0		<0.1	Dry	996	0.0001	0.0001	CS1	CS1																
				02/02/2015	<0.1	<0.1	19.5	0	0		<0.1	Dry	982	0.0001	0.0001	CS1	CS1																
				26/02/2015	<0.1	<0.1	19.1	0	0		<0.1	1.29	985	0.0001	0.0001	CS1	CS1																
WS03	Rest Airport	1.0-4.45	CwF	26/02/2015	<0.1	0.3	18.1	0	0		<0.1	2.12	985	0.0001	0.0003	CS1	CS1	<0.1	0.3	0.1	0.0001	0.0003	CS1	CS1									

Appendix G – Controlled Waters Generic Quantitative Risk Assessment

Appendix G

G1 Groundwater Assessment Criteria

Screening value	Screening value	Units	Screening standard	Justification
General inorganics				
Total Cyanide	50	ug/l	UK DWS	DWS prioritised
Complex Cyanides	50	ug/l	UK DWS	DWS for total cyanide used
Free Cyanide	50	ug/l	UK DWS	DWS for total cyanide used
Thiocyanate as SCN	50	ug/l	UK DWS	DWS for total cyanide used
Sulphate as SO4	250000	ug/l	UK DWS	DWS prioritised
Sulphide	N/A	ug/l	-	-
Chloride	250	mg/l	UK DWS	DWS prioritised
Fluoride	1500	ug/l	UK DWS	DWS prioritised
Ammoniacal Nitrogen as N	390	ug/l	UK DWS	DWS prioritised
Nitrate as N	11.3	mg/l	UK DWS	DWS for Nitrate as NO3 converted to Nitrate as N (NO3 x 0.2259)
Nitrate as NO3	50	mg/l	UK DWS	DWS prioritised
Nitrite as N	160	ug/l	UK DWS	DWS for Nitrite as NO2 converted to Nitrite as N (NO2 x 0.3257)
Nitrite as NO2	500	ug/l	UK DWS	DWS prioritised
Alkalinity	N/A	mg/l	-	-
Chemical Oxygen Demand (COD)	N/A	mg/l	-	-
Biological Oxygen Demand (BOD)	N/A	mg/l	-	-
Total Oxidised N (Nitrate/-ite)	50	mg/l	UK DWS	DWS for Nitrate as NO3 assumed
Total Suspended Solids	N/A	mg/l	-	-
Hardness - Total	N/A	mg/l	-	-
Bromide	N/A	mg/l	-	Bromide common constituent of groundwater and is naturally occurring
Bromate	0.01	mg/l	UK DWS	DWS prioritised
Phenols				
Catechol	7.7	ug/l	FEQS	EQS for phenol used (no UK DWS available)
Resorcinol	7.7	ug/l	FEQS	EQS for phenol used (no UK DWS available)
Ethylphenol & Dimethylphenol	100	ug/l	FEQS	EQS for methylphenol used (no UK DWS available)
Cresols	100	ug/l	FEQS	EQS for methylphenol used (no UK DWS available)
Naphthols	7.7	ug/l	FEQS	EQS for phenol used (no UK DWS available)
Isopropylphenol	7.7	ug/l	FEQS	EQS for phenol used (no UK DWS available)
Phenol	7.7	ug/l	FEQS	EQS (no UK DWS available)
Trimethylphenol	100	ug/l	FEQS	EQS for methylphenol used (no UK DWS available)
Speciated PAHs				
Naphthalene	2	ug/l	FEQS	EQS (no UK DWS available)
Acenaphthylene	2	ug/l	FEQS	EQS for naphthalene used (no UK DWS available)
Acenaphthene	2000	ug/l	USEPA	USEPA DWS (no UK DWS available)
Fluorene	2	ug/l	FEQS	EQS for naphthalene used (no UK DWS available)
Phenanthrene	2	ug/l	FEQS	EQS for naphthalene used (no UK DWS available)
Anthracene	0.1	ug/l	FEQS	EQS (no UK DWS available)
Fluoranthene	0.0063	ug/l	FEQS	EQS (no UK DWS available)
Pyrene	2	ug/l	FEQS	EQS for naphthalene used (no UK DWS available)
Benzo(a)anthracene	2	ug/l	FEQS	EQS for naphthalene used (no UK DWS available)
Chrysene	2	ug/l	FEQS	EQS for naphthalene used (no UK DWS available)
Benzo(b)fluoranthene	0.1	ug/l	UK DWS	DWS prioritised
Benzo(k)fluoranthene	0.1	ug/l	UK DWS	DWS prioritised
Benzo(a)pyrene	0.01	ug/l	UK DWS	DWS prioritised
Indeno(1,2,3-cd)pyrene	0.1	ug/l	UK DWS	DWS prioritised
Dibenz(a,h)anthracene	2	ug/l	FEQS	EQS for naphthalene used (no UK DWS available)
Benzo(g,h,i)perylene	0.1	ug/l	UK DWS	DWS prioritised
Heavy metals and metalloids				
Antimony	5	ug/l	UK DWS	DWS prioritised
Arsenic	10	ug/l	UK DWS	DWS prioritised
Barium	700	ug/l	WHO	WHO (no UK DWS available)
Beryllium	4	ug/l	USEPA	USEPA (no UK DWS available)
Boron	1000	ug/l	UK DWS	DWS prioritised
Cadmium	5	ug/l	UK DWS	DWS prioritised
Calcium	N/A	mg/l	-	-
Chromium VI	3.4	ug/l	FEQS	EQS (no UK DWS available)
Chromium III	4.7	ug/l	FEQS	EQS (no UK DWS available)
Chromium Total	50	ug/l	UK DWS	DWS prioritised
Copper	2000	ug/l	UK DWS	DWS prioritised
Iron	0.2	mg/l	UK DWS	DWS prioritised
Lead	10	ug/l	UK DWS	DWS prioritised
Magnesium	N/A	mg/l	-	-
Manganese	50	ug/l	UK DWS	DWS prioritised
Mercury	1	ug/l	UK DWS	DWS prioritised
Molybdenum	70	ug/l	WHO	WHO (no UK DWS available)
Nickel	20	ug/l	UK DWS	DWS prioritised
Potassium	N/A	mg/l	-	-
Selenium	10	ug/l	UK DWS	DWS prioritised
Sodium	50	mg/l	WHO	WHO (no UK DWS available)
Vanadium	20	ug/l	FEQS	EQS (no UK DWS available)
Zinc	5000	ug/l	USEPA	USEPA (no UK DWS available)

Screening value	Screening value	Units	Screening standard	Justification
Monoaromatics				
Benzene	1	ug/l	UK DWS	DWS prioritised
Toluene	74	ug/l	FEQS	EQS (no UK DWS available)
Ethylbenzene	20	ug/l	FEQS	EQS (no UK DWS available)
Xylenes	30	ug/l	FEQS	EQS (no UK DWS available)
MTBE	15	ug/l	WHO	WHO threshold for taste and odour in drinking water (no UK DWS available)
Petroleum hydrocarbons				
TPH	N/A	ug/l	-	-
TPH >C5-C6 Aliphatics	15000	ug/l	WHO	WHO (no UK DWS available)
TPH >C6-C8 Aliphatics	15000	ug/l	WHO	WHO (no UK DWS available)
TPH >C8-C10 Aliphatics	300	ug/l	WHO	WHO (no UK DWS available)
TPH >C10-C12 Aliphatics	300	ug/l	WHO	WHO (no UK DWS available)
TPH >C12-C16 Aliphatics	300	ug/l	WHO	WHO (no UK DWS available)
TPH >C16-C21 Aliphatics	300	ug/l	WHO	WHO guideline for TPH >C12-C16 Aliphatics used (no UK DWS available)
TPH >C21-C35 Aliphatics	300	ug/l	WHO	WHO guideline for TPH >C12-C16 Aliphatics used (no UK DWS available)
TPH-CWG - Aliphatic >C16 - C35	300	ug/l	WHO	WHO guideline for TPH >C12-C16 Aliphatics used (no UK DWS available)
TPH-CWG - Aliphatic >C35 - C44	300	ug/l	WHO	WHO guideline for TPH >C12-C16 Aliphatics used (no UK DWS available)
C5-C35 Aliphatics	N/A	ug/l	-	-
TPH-CWG - Aliphatic (C5 - C44)	N/A	ug/l	-	-
TPH >C5-C6 Aromatics	10	ug/l	WHO	WHO (no UK DWS available)
TPH >C7-C8 Aromatics	700	ug/l	WHO	WHO (no UK DWS available)
TPH >C8-C9 Aromatics	300	ug/l	WHO	WHO (no UK DWS available)
TPH >C9-C10 Aromatics	300	ug/l	WHO	WHO (no UK DWS available)
TPH >C8-C10 Aromatics	300	ug/l	WHO	WHO (no UK DWS available)
TPH >C10-C12 Aromatics	90	ug/l	WHO	WHO (no UK DWS available)
TPH >C12-C16 Aromatics	90	ug/l	WHO	WHO (no UK DWS available)
TPH >C16-C21 Aromatics	90	ug/l	WHO	WHO (no UK DWS available)
TPH >C21-C35 Aromatics	90	ug/l	WHO	WHO (no UK DWS available)
TPH >C35-C44 Aromatics	90	ug/l	WHO	WHO guideline for TPH >C21-C35 Aromatics used (no UK DWS available)
C5-C35 Aromatics	N/A	ug/l	-	-
C5-C35 Aromatics	N/A	ug/l	-	-
VOCs				
Chloromethane	20	ug/l	FEQS	EQS for dichloromethane used (no UK DWS available)
Chloroethane	3	ug/l	UK DWS	DWS for 1,2-dichloroethane used
Bromomethane	100	ug/l	UK DWS	DWS for total trihalomethanes used which includes dibromomethane
Vinyl Chloride	0.5	ug/l	UK DWS	DWS prioritised
Trichlorofluoromethane	2.5	ug/l	FEQS	EQS for trichloromethane used (no UK DWS available)
1,1-Dichloroethene	7	ug/l	USEPA	USEPA (no UK DWS available)
1,1,2-Trichloro-1,2,2-trifluoroethane	400	ug/l	FEQS	EQS for 1,1,2-trichloroethane used (no UK DWS available)
Cis-1,2 Dichloroethene	50	ug/l	WHO	WHO (no UK DWS available)
1,1 -Dichloroethane	3	ug/l	UK DWS	DWS for 1,2-dichloroethane used
2,2-Dichloropropane	40	ug/l	WHO	WHO for 1,2-dichloropropane used (no UK DWS available)
Trichloromethane	2.5	ug/l	FEQS	EQS (no UK DWS available)
1,1,1-Trichloroethane	100	ug/l	FEQS	EQS (no UK DWS available)
1,2-Dichloroethane	3	ug/l	UK DWS	DWS prioritised
1,1-Dichloropropene	20	ug/l	WHO	WHO for 1,3-dichloropropene used (no UK DWS available)
Trans-1,2 Dichloroethene	50	ug/l	WHO	WHO (no UK DWS available)
Tetrachloromethane	3	ug/l	UK DWS	DWS prioritised
1,2-Dichloropropane	40	ug/l	WHO	WHO (no UK DWS available)
Trichloroethene	10	ug/l	UK DWS	DWS prioritised
Dibromomethane	100	ug/l	UK DWS	DWS prioritised
Bromodichloromethane	100	ug/l	UK DWS	DWS prioritised
Cis-1,3 Dichloropropene	20	ug/l	WHO	WHO (no UK DWS available)
Trans-1,3 Dichloropropene	20	ug/l	WHO	WHO (no UK DWS available)
1,1,2-Trichloroethane	400	ug/l	FEQS	EQS (no UK DWS available)
1,3-Dichloropropane	40	ug/l	WHO	WHO for 1,2-dichloropropane used (no UK DWS available)
Dibromochloromethane	100	ug/l	WHO	WHO (no UK DWS available)
Tetrachloroethene	10	ug/l	UK DWS	DWS prioritised
1,2-Dibromoethane	0.4	ug/l	WHO	WHO (no UK DWS available)
Chlorobenzene	0.4	ug/l	EQS	EQS for trichlorobenzene (no UK DWS available)
1,1,1,2-Tetrachloroethane	400	ug/l	USEPA	USEPA for 1,1,2,2-tetrachloroethane used (no UK DWS available)
m,p-Xylenes	30	ug/l	FEQS	EQS for total xylenes (no UK DWS available)
Styrene	20	ug/l	WHO	WHO (no UK DWS available)
Tribromomethane	100	ug/l	UK DWS	DWS for total trihalomethanes used which includes dibromomethane
o-Xylene	30	ug/l	FEQS	EQS for total xylenes (no UK DWS available)
1,1,2,2-Tetrachloroethane	400	ug/l	USEPA	USEPA (no UK DWS available)
Iso-propylbenzene	1	ug/l	UK DWS	UK DWS for benzene used
Bromobenzene	1	ug/l	UK DWS	UK DWS for benzene used
Propylbenzene	1	ug/l	UK DWS	UK DWS for benzene used
2-Chlorotoluene	74	ug/l	FEQS	EQS for toluene used (no UK DWS available)
4-Chlorotoluene	74	ug/l	FEQS	EQS for toluene used (no UK DWS available)
1,3,5 Trimethylbenzene	1	ug/l	UK DWS	UK DWS for benzene used
tert-Butylbenzene	1	ug/l	UK DWS	UK DWS for benzene used
1,2,4 Trimethylbenzene	1	ug/l	UK DWS	UK DWS for benzene used
sec-Butylbenzene	1	ug/l	UK DWS	UK DWS for benzene used

Screening value	Screening value	Units	Screening standard	Justification
1,3-Dichlorobenzene	3000	ug/l	USEPA	USEPA (no UK DWS available)
p-Isopropyltoluene	74	ug/l	FEQS	EQS for toluene used (no UK DWS available)
1,2-Dichlorobenzene	1000	ug/l	WHO	WHO (no UK DWS available)
1,4-Dichlorobenzene	300	ug/l	WHO	WHO (no UK DWS available)
n-Butylbenzene	1	ug/l	UK DWS	UK DWS for benzene used
1,2-Dibromo-3-chloropropane	1	ug/l	WHO	WHO (no UK DWS available)
1,2,4-Trichlorobenzene	70	ug/l	USEPA	USEPA (no UK DWS available)
Hexachlorobutadiene	0.6	ug/l	WHO	WHO (no UK DWS available)
2,6-Chloronitrotoluene	74	ug/l	FEQS	EQS for toluene used (no UK DWS available)
4,2-Chloronitrotoluene	74	ug/l	FEQS	EQS for toluene used (no UK DWS available)
4,3-Chloronitrotoluene	74	ug/l	FEQS	EQS for toluene used (no UK DWS available)
2,4-Chloronitrotoluene	74	ug/l	FEQS	EQS for toluene used (no UK DWS available)
2,5-Chloronitrotoluene	74	ug/l	FEQS	EQS for toluene used (no UK DWS available)
1,2,3-Trichlorobenzene	0.4	ug/l	FEQS	EQS for trichlorobenzene (no UK DWS available)
1,2,3-Trichloropropane	40	ug/l	WHO	WHO for 1,2-dichloropropane used (no UK DWS available)
1,3,5-Trichlorobenzene	0.4	ug/l	FEQS	EQS for trichlorobenzene (no UK DWS available)
Bromochloromethane	100	ug/l	WHO	WHO for dibromochloromethane used (no UK DWS available)
Dichloromethane	20	ug/l	FEQS	EQS (no UK DWS available)
Carbon disulphide	10	ug/l	Default	No suitable published criteria available default value of 10ug/l adopted
Dichlorodifluoromethane	20	ug/l	FEQS	EQS used for dichloromethane (no UK DWS available)
SVOCs				
Phenol	7.7	ug/l	FEQS	EQS (no UK DWS available)
2-Chlorophenol	50	ug/l	FEQS	EQS (no UK DWS available)
Bis(2-chloroethyl)ether	1000	ug/l	USEPA	USEPA for bis(2-chloro-1-methylethyl)ether used (no UK DWS available)
Bis(2-chloroisopropyl)ether	1000	ug/l	USEPA	USEPA for bis(2-chloro-1-methylethyl)ether used (no UK DWS available)
2-Methylphenol	100	ug/l	FEQS	EQS for methylphenol used (no UK DWS available)
Hexachloroethane	40	ug/l	USEPA	USEPA (no UK DWS available)
Nitrobenzene	1	ug/l	UK DWS	UK DWS for benzene used
4-Methylphenol	100	ug/l	FEQS	EQS for methylphenol used (no UK DWS available)
Isophorone	7000	ug/l	USEPA	USEPA (no UK DWS available)
2-Nitrophenol	7.7	ug/l	FEQS	EQS for phenol used (no UK DWS available)
2,4-Dimethylphenol	100	ug/l	FEQS	EQS for methylphenol used (no UK DWS available)
Bis(2-chloroethoxy)methane	10	ug/l	Default	No suitable published criteria available default value of 10ug/l adopted
2,4-Dichlorophenol	4.2	ug/l	FEQS	EQS (no UK DWS available)
4-Chloro-3-methylphenol	40	ug/l	FEQS	EQS (no UK DWS available)
2,4,6-trichlorophenol	200	ug/l	WHO	WHO (no UK DWS available)
2,4,5-Trichlorophenol	200	ug/l	WHO	WHO for 2,4,6-trichlorophenol used (no UK DWS available)
2-Methylnaphthalene	2	ug/l	FEQS	EQS for naphthalene used (no UK DWS available)
2-Chloronaphthalene	2	ug/l	FEQS	EQS for naphthalene used (no UK DWS available)
Dimethylphthalate	800	ug/l	FEQS	EQS (no UK DWS available)
2,6-Dinitrotoluene	100	ug/l	USEPA	USEPA for 2,4-dinitrotoluene used (no UK DWS available)
2,4-Dinitrotoluene	100	ug/l	USEPA	USEPA (no UK DWS available)
Dibenzofuran	2	ug/l	FEQS	EQS for naphthalene used (no UK DWS available)
Diethyl phthalate	200	ug/l	FEQS	EQS (no UK DWS available)
Bromophenyl phenyl ether	10	ug/l	Default	No suitable published criteria available default value of 10ug/l adopted
Hexachlorobenzene	1	ug/l	USEPA	USEPA (no UK DWS available)
Carbazole	2	ug/l	FEQS	EQS for naphthalene used (no UK DWS available)
Di-n-butyl phthalate	8	ug/l	FEQS	EQS (no UK DWS available)
Butyl benzyl phthalate	7.5	ug/l	FEQS	EQS (no UK DWS available)
PCBs by GC-ECD - WHO 12				
PCB Congener 77	25	ug/l	FEQS	EQS (no UK DWS available)
PCB Congener 81	25	ug/l	FEQS	EQS (no UK DWS available)
PCB Congener 105	25	ug/l	FEQS	EQS (no UK DWS available)
PCB Congener 114	25	ug/l	FEQS	EQS (no UK DWS available)
PCB Congener 118	25	ug/l	FEQS	EQS (no UK DWS available)
PCB Congener 123	25	ug/l	FEQS	EQS (no UK DWS available)
PCB Congener 126	25	ug/l	FEQS	EQS (no UK DWS available)
PCB Congener 156	25	ug/l	FEQS	EQS (no UK DWS available)
PCB Congener 157	25	ug/l	FEQS	EQS (no UK DWS available)
PCB Congener 167	25	ug/l	FEQS	EQS (no UK DWS available)
PCB Congener 169	25	ug/l	FEQS	EQS (no UK DWS available)
PCB Congener 189	25	ug/l	FEQS	EQS (no UK DWS available)
PCBs	25	ug/l	FEQS	EQS (no UK DWS available)
Environmental Forensics				
PFOS	0.3	ug/l	FEQS	DWS
PFOA	0.3	ug/l	FEQS	DWS for PFOS used
Metaldehyde	0.1	ug/l	UK DWS	DWS for other pesticides prioritised
Chloronitrotoluenes (sum)	10	ug/l	FEQS	EQS (no DWS available). EQS is an EA operational EQS and is not listed within WFD.
Chlorbufam	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Chloroxuron	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Chlorpropham	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Ethiofencarb	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Phenmedipham	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Propham	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Dimefuron	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised

Screening value	Screening value	Units	Screening standard	Justification
Metoxuron	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Pencycuron	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
o,p-Methoxychlor	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Demeton-s-methyl	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Diclofop	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Fenvalerate	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Cyhalothrin	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Ametryn	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Atrazine-methoxy	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Bromacil	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Flamprop	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Flamprop-isopropyl	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Prometon	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Simetryn	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
4-Nitrophenol	7.7	ug/l	FEQS	EQS for phenol used (no UK DWS available)
Hexachlorocyclopentadiene	50	ug/l	USEPA	USEPA (no UK DWS available)
Perylene	2	ug/l	FEQS	EQS for naphthalene used (no UK DWS available)
n-Nitroso-n-dipropylamine	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Carbamates				
Pirimicarb	100	ng/l	UK DWS	DWS 'other pesticides' prioritised
Carbamate	100	ng/l	UK DWS	DWS 'other pesticides' prioritised
Phthalates				
Bis(2-ethylhexyl)phthalate	8	ug/l	WHO	WHO for di(2-ethylhexyl)phthalate used (no UK DWS available)
Di-n-octyl phthalate	20	ug/l	FEQS	EQS (no UK DWS available)
Total phthalates	N/A	mg/l	-	-
Glycols				
Ethylene Glycol	0.01	mg/l	Default	No suitable published criteria available default value of 10ug/l adopted
Diethylene Glycol	0.01	mg/l	Default	No suitable published criteria available default value of 10ug/l adopted
1,2-Propanediol	0.01	mg/l	Default	No suitable published criteria available default value of 10ug/l adopted
Triazine Pesticides				
Atrazine	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Simazine	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Prometryn	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Propazine	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Terbutylazine	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Terbutryn	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Acid herbicides esters				
2,4-D Methyl Ester	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
2,4-D butyl ester	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
2,4-D ethyl ester	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
2,4-D isobutyl ester	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
2,4-D isopropyl ester	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Acid Herbicides				
2,3,6-TBA	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Benazolin	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Bromoxynil	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Clopyralid	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
loxylin	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
2,4,5-T	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
2,4,5-TP	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
2,4-D	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
2,4-DB	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Dicamba	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Dichlorprop	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
MCPA	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
MCPB	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Mecoprop	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Picloram	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
4-Chlorophenoxyacetic acid	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Organochlorine Pesticides				
Aldrin	0.03	ug/l	UK DWS	DWS 'pesticides' prioritised
alpha-HCH (alpha-BHC)	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
beta-HCH (beta-BHC)	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
delta-HCH (delta-BHC)	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Dieldrin	0.03	ug/l	UK DWS	DWS 'pesticides' prioritised
Endosulfan	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Endosulfan	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Endosulfan Sulphate	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Endrin	0.6	ug/l	WHO	DWS 'other pesticides' prioritised
gamma-HCH (gamma-BHC)	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Heptachlor	0.03	ug/l	UK DWS	DWS 'pesticides' prioritised
Heptachlor Epoxide	0.03	ug/l	UK DWS	DWS 'pesticides' prioritised
Isodrin	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Methoxychlor	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
o,p-DDE	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised

Screening value	Screening value	Units	Screening standard	Justification
DDT	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
o,p-TDE (o,p-DDD)	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
p,p-DDE	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
DDT	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
p,p-TDE (o,p-DDD)	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Trifluralin	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Organonitrogen pesticides				
Bentazone	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Fluroxypyr	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Triclopyr	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Organophosphorous pesticides				
Azinphos-ethyl	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Azinphos-methyl	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Chlorfenvinphos	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Chlorfenvinphos I	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Chlorfenvinphos II	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Chlorpyrifos-methyl	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Diazinon	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Dichlorvos	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Dimethoate	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
E-mevinphos	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Z-Mevinphos	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Ethion	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Fenitrothion	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Fenthion	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Malathion	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Parathion-ethyl	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Parathion-methyl	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Phenylurea herbicides				
Isoproturon	100	ng/l	UK DWS	DWS 'other pesticides' prioritised
Chlortoluron	100	ng/l	UK DWS	DWS 'other pesticides' prioritised
Diflufenzuron	100	ng/l	UK DWS	DWS 'other pesticides' prioritised
Diuron	100	ng/l	UK DWS	DWS 'other pesticides' prioritised
Linuron	100	ng/l	UK DWS	DWS 'other pesticides' prioritised
Methabenzthiazuron	100	ng/l	UK DWS	DWS 'other pesticides' prioritised
Monolinuron	100	ng/l	UK DWS	DWS 'other pesticides' prioritised
Monuron	100	ng/l	UK DWS	DWS 'other pesticides' prioritised
VFAs				
Acetic acid	0.01	mg/l	Default	No suitable published criteria available default value of 10ug/l adopted
Propanoic acid	0.01	mg/l	Default	No suitable published criteria available default value of 10ug/l adopted
Butyric acid	0.01	mg/l	Default	No suitable published criteria available default value of 10ug/l adopted
Isobutyric acid	0.01	mg/l	Default	No suitable published criteria available default value of 10ug/l adopted
Pentanoic acid	0.01	mg/l	Default	No suitable published criteria available default value of 10ug/l adopted
Isopentanoic acid	0.01	mg/l	Default	No suitable published criteria available default value of 10ug/l adopted
Hexanoic acid	0.01	mg/l	Default	No suitable published criteria available default value of 10ug/l adopted
Heptanoic acid	0.01	mg/l	Default	No suitable published criteria available default value of 10ug/l adopted
Pyrethroids				
Cyfluthrin	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Cypermethrin	100	ng/l	UK DWS	DWS 'other pesticides' prioritised
Deltamethrin	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Permethrin	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Permethrin	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Organotins				
Tributyltin compounds	0.2	ng/l	FEQS	EQS (no UK DWS available)
TPT (Triphenyl Tin)	0.2	ng/l	FEQS	EQS for tributyl tin compounds used (no UK DWS available)
DBT (Dibutyl Tin)	0.2	ng/l	FEQS	EQS for tributyl tin compounds used (no UK DWS available)
Chlorophenols				
Pentachlorophenol	0.0004	mg/l	FEQS	EQS (no UK DWS available)
Others				
Chlordane	0.0001	mg/l	UK DWS	DWS 'other pesticides' prioritised
Chlorothalonil	0.0001	mg/l	UK DWS	DWS 'other pesticides' prioritised
Chlorpyrifos	0.0001	mg/l	UK DWS	DWS 'other pesticides' prioritised
Pendimethalin	0.0003	mg/l	FEQS	DWS 'other pesticides' prioritised
Bromoform	0.1	mg/l	WHO	WHO (no UK DWS available)
Carbon Tetrachloride	0.003	mg/l	UK DWS	DWS prioritised
Lambda-cyhalothrin	0.1	ug/l	UK DWS	DWS 'other pesticides' prioritised
Methane	N/A	ug/l	-	-

Appendix G

G2 RTM Level 1 - Soils

Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	Hole Ref																				
						AEC17-H24-BH101	AEC17-H24-BH101	AEC17-H24-BH101	AEC17-H24-BH101	AEC17-H24-BH102	AEC17-H24-BH102	AEC17-H24-BH102	AEC17-H24-BH102	AEC17-H24-BH102	AEC17-H24-BH102	AEC17-H24-BH102	AEC17-H24-BH102	AEC17-H24-BH102	AEC17-H24-BH102	AEC17-H24-BH102	AEC17-H24-BH102	AEC17-H24-BH102	AEC17-H24-BH102	AEC17-H24-BH102		
						Sample Top	0.60	1.50	3.00	6.00	1.20	12.00	17.00	20.00	3.00	7.00	1.00	1.50	3.50	0.30	1.50	2.30	4.30	0.30	1.70	3.00
						Lookup soil	MG	MG	MG	CHK	GTA	CHK	CHK	CHK	GTA	CHK	MG	MG	GTA	MG	CWF	CWF	CWF	MG	CWF	CWF
						Sample Ref																				
						ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
100-41-4	Ethylbenzene	SOLID - INITIAL	0.53	mg/kg	mg/kg	<0.01			<0.01	<0.01										<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
108-88-3	Toluene	SOLID - INITIAL	0.88	mg/kg	mg/kg	<0.01			<0.01	<0.01										<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
120-12-7	Anthracene	SOLID - INITIAL	0.16	mg/kg	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03										<0.03	<0.03	<0.03	<0.03	0.2	<0.03	<0.03
129-00-0	Pyrene	SOLID - INITIAL	1.88	mg/kg	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03										<0.03	<0.03	<0.03	<0.03	1.4	<0.03	<0.03
1330-20-7	Xylene	SOLID - INITIAL	0.23	mg/kg	mg/kg	<0.01			<0.01	<0.01										<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
191-24-2	Benzo(g,h,i)perylene	SOLID - INITIAL	2.42	mg/kg	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03										<0.03	<0.03	<0.03	<0.03	0.7	<0.03	<0.03
193-39-5	Indeno(1,2,3-cd)pyrene	SOLID - INITIAL	0.51	mg/kg	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03										<0.03	<0.03	<0.03	<0.03	0.5	<0.03	<0.03
205-99-2	Benzo(b)fluoranthene	SOLID - INITIAL	0.61	mg/kg	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03										<0.03	<0.03	<0.03	<0.03	1.1	<0.03	<0.03
206-44-0	Fluoranthene	SOLID - INITIAL	0.01	mg/kg	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03										<0.03	<0.03	<0.03	<0.03	1.6	<0.03	<0.03
207-08-9	Benzo(k)fluoranthene	SOLID - INITIAL	0.86	mg/kg	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03										<0.03	<0.03	<0.03	<0.03	0.4	<0.03	<0.03
208-96-8	Acenaphthylene	SOLID - INITIAL	1.01	mg/kg	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03										<0.03	<0.03	<0.03	<0.03	0.1	<0.03	<0.03
218-01-9	Chrysene	SOLID - INITIAL	6.38	mg/kg	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03										<0.03	<0.03	<0.03	<0.03	0.8	<0.03	<0.03
50-32-8	Benzo(a)pyrene	SOLID - INITIAL	0.07	mg/kg	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03										<0.03	<0.03	<0.03	<0.03	0.8	<0.03	<0.03
53-70-3	Dibenzo(a,h)anthracene	SOLID - INITIAL	10.80	mg/kg	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03										<0.03	<0.03	<0.03	<0.03	0.2	<0.03	<0.03
56-55-3	Benzo(a)anthracene	SOLID - INITIAL	4.50	mg/kg	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03										<0.03	<0.03	<0.03	<0.03	0.7	<0.03	<0.03
57-12-5	Cyanide	SOLID - INITIAL	0.26	mg/kg	mg/kg	0.3	0.2	<0.1	<0.1											0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
71-43-2	Benzene	SOLID - INITIAL	0.0043	mg/kg	mg/kg	<0.01			<0.01	<0.01										<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
7439-92-1	Lead	SOLID - INITIAL	10.00	mg/kg	mg/kg	30.0	18.0	22.0	2.4											18.0	20.0	31.0	17.0	6.7	26.0	23.0
7439-97-6	Mercury	SOLID - INITIAL	0.50	mg/kg	mg/kg	<0.05	0.1	0.1	<0.05											<0.05	0.1	0.1	0.2	<0.05	<0.05	0.2
7440-02-0	Nickel	SOLID - INITIAL	10.01	mg/kg	mg/kg	13.0	50.0	51.0	4.8											13.0	28.0	37.0	34.0	9.0	20.0	33.0
7440-36-0	Antimony	SOLID - INITIAL	1.26	mg/kg	mg/kg	2.2	2.6	4.0	<1.0											<1.0	1.4	1.2	1.1	<1.0	2.1	1.3
7440-38-2	Arsenic	SOLID - INITIAL	5.00	mg/kg	mg/kg	9.6	21.0	21.0	2.4											8.5	14.0	13.0	10.0	4.2	19.0	14.0
7440-41-7	Beryllium	SOLID - INITIAL	5.04	mg/kg	mg/kg	1.8	1.6	1.9	0.2											0.5	1.5	2.4	2.6	<0.2	1.2	2.2
7440-42-8	Boron	SOLID - INITIAL	8.69	mg/kg	mg/kg	1.4	<0.2	0.8	0.8											1.5	1.5	0.9	0.7	0.9	0.7	0.7
7440-43-9	Cadmium	SOLID - INITIAL	0.50	mg/kg	mg/kg	0.6	0.8	1.2	0.2											0.2	<0.1	<0.1	0.3	<0.1	<0.1	<0.1
7440-47-3	Chromium	SOLID - INITIAL	315.49	mg/kg	mg/kg	19.0	35.0	77.0	4.6											15.0	42.0	39.0	33.0	8.7	58.0	34.0
7440-50-8	Copper	SOLID - INITIAL	1002.92	mg/kg	mg/kg	21.0	25.0	33.0	5.0											19.0	28.0	43.0	37.0	12.0	23.0	36.0
7440-62-2	Vanadium	SOLID - INITIAL	1.01	mg/kg	mg/kg	31.0	48.0	89.0	9.0											36.0	74.0	79.0	63.0	37.0	79.0	72.0
7440-66-6	Zinc	SOLID - INITIAL	2507.30	mg/kg	mg/kg	61.0	93.0	110.0	26.0											46.0	69.0	90.0	100.0	36.0	61.0	98.0
7782-49-2	Selenium	SOLID - INITIAL	0.50	mg/kg	mg/kg	<0.5	<0.5	0.5	<0.5											<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
83-32-9	Acenaphthene	SOLID - INITIAL	965.39	mg/kg	mg/kg	<0.03	<0.03	<0.03	<0.03											<0.03	<0.03	<0.03	<0.03	0.2	<0.03	<0.03
85-01-8	Phenanthrene	SOLID - INITIAL	3.35	mg/kg	mg/kg	<0.03	<0.03	<0.03	<0.03											<0.03	<0.03	<0.03	<0.03	0.9	<0.03	<0.03
86-73-7	Fluorene	SOLID - INITIAL	1.76	mg/kg	mg/kg	<0.03	<0.03	<0.03	<0.03											<0.03	<0.03	<0.03	<0.03	0.1	<0.03	<0.03
91-20-3	Napthalene	SOLID - INITIAL	0.08	mg/kg	mg/kg	<0.03	<0.03	<0.03	<0.03											<0.03	<0.01	<0.03	<0.03	0.0	<0.03	<0.03
P1186	Phenol	SOLID - INITIAL	0.04	mg/kg	mg/kg	<0.3	<0.3	<0.3	<0.3											<0.3	<0.3	0.4	<0.3	<0.3	<0.3	<0.3
P1310	Pah, Total	SOLID - INITIAL	#N/A	mg/kg	mg/kg	<0.10	<0.10	<0.10	<0.10											<0.10	<0.10	<0.10	<0.10	9.7	<0.10	<0.10
P1334	pH	SOLID - INITIAL	#N/A	mg/kg	pH Units	8.3	7.9	7.7	8.4	7.6	8.3	8.9	8.8	7.7	8.3	7.9	7.4	8.1	9.7	7.3	7.6	7.4	9.0	7.5	7.2	
P1355	TPH Aromatic >C7-C8	SOLID - INITIAL	10.42	mg/kg	mg/kg	<0.01														<0.01	<0.01				<0.01	
P1356	TPH Aromatic >C8-C10	SOLID - INITIAL	219.16	mg/kg	mg/kg	<0.01														<0.01	<0.01				<0.01	
P1357	TPH Aromatic >C10-C12	SOLID - INITIAL	16.54	mg/kg	mg/kg	<0.9														<0.9	<0.9				<0.9	
P1358	TPH Aromatic >C12-C16	SOLID - INITIAL	32.96	mg/kg	mg/kg	<0.5														<0.5	<0.5				1.4	
P1359	TPH Aromatic >C16-C21	SOLID - INITIAL	82.76	mg/kg	mg/kg	<0.6														<0.6	<0.6				2.6	
P1360	TPH Aromatic >C21-C35	SOLID - INITIAL	657.18	mg/kg	mg/kg	<1.4														<1.4	<1.4				11.0	
P1407	TPH Aliphatic >C5-6	SOLID - INITIAL	654.68	mg/kg	mg/kg	<0.01														<0.01	<0.01				<0.01	
P1408	TPH Aliphatic >C6-8	SOLID - INITIAL	2946.18	mg/kg	mg/kg	<0.01														<0.01	<0.01				<0.01	
P1409	TPH Aliphatic >C8-10	SOLID - INITIAL	558.25	mg/kg	mg/kg	<0.01														<0.01	<0.01				<0.01	
P1410	TPH Aliphatic >C10-12	SOLID - INITIAL	5510.38	mg/kg	mg/kg	<1.5														<1.5	<1.5				<1.5	
P1411	TPH Aliphatic >C12-16	SOLID - INITIAL	87214.59	mg/kg	mg/kg	<1.2														<1.2	<1.2				<1.2	
P1412	TPH Aliphatic >C16-																									

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Hole Ref	AEC17-H24-BH101	AEC17-H24-BH101	AEC17-H24-BH101	AEC17-H24-BH101	AEC17-H24-BH102	AEC17-H24-BH102	AEC17-H24-BH102	AEC17-H24-BH102	AEC17-H24-BH102	AEC17-H24-BH102	AEC17-H24-BH102	AEC17-H24-BH103	AEC17-H24-BH103	AEC17-H24-BH103	AEC17-H24-BH104	AEC17-H24-BH104	AEC17-H24-BH104	AEC17-H24-BH104	AEC17-H24-BH105	AEC17-H24-BH105	AEC17-H24-BH105
Sample Top	0.60	1.50	3.00	6.00	1.20	12.00	17.00	20.00	3.00	7.00	1.00	1.50	3.50	0.30	1.50	2.30	4.30	0.30	1.70	3.00	
Lookup soil	MG	MG	MG	CHK	GTA	CHK	CHK	CHK	GTA	CHK	MG	MG	GTA	MG	CWF	CWF	CWF	MG	CWF	CWF	
Sample Ref																					
Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
98-06-6	Tert-Butylbenzene	SOLID - INITIAL	0.75	mg/kg	mg/kg																
98-82-8	Isopropylbenzene	SOLID - INITIAL	0.27	mg/kg	mg/kg																
99-09-2	3-Nitroaniline	SOLID - INITIAL	#N/A	mg/kg	mg/kg																
99-65-0	m-Dinitrobenzene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																
99-87-6	4-Isopropyltoluene	SOLID - INITIAL	54.06	mg/kg	mg/kg																
P1374	xylene	SOLID - INITIAL	0.23	mg/kg	mg/kg																
18540-29-9	chromium hexavalent	SOLID - INITIAL	0.02	mg/kg	mg/kg																
P1095	Cyanide Free	SOLID - INITIAL	#N/A	mg/kg	mg/kg																
P1239	Complex Cyanide	SOLID - INITIAL	0.26	mg/kg	mg/kg																
31508-00-6	PCB-118 2,3,4,4,5 - Pentachlorobiphenyl	SOLID - INITIAL	#N/A	mg/kg	mg/kg																
32598-13-3	PCB 77	SOLID - INITIAL	6185.41	mg/kg	mg/kg																
32598-14-4	PCB 105	SOLID - INITIAL	8940.63	mg/kg	mg/kg																
32774-16-6	PCB 169	SOLID - INITIAL	37270.75	mg/kg	mg/kg																
38380-08-4	PCB-156 2,3,3,4,4,5 - Hexachlorobiphenyl	SOLID - INITIAL	3172.26	mg/kg	mg/kg																
39635-31-9	PCB 189	SOLID - INITIAL	270002.64	mg/kg	mg/kg																
52663-72-6	PCB 167	SOLID - INITIAL	45853.03	mg/kg	mg/kg																
57465-28-8	PCB 126	SOLID - INITIAL	8940.63	mg/kg	mg/kg																
65510-44-3	PCB 123	SOLID - INITIAL	8940.63	mg/kg	mg/kg																
69782-90-7	PCB 157	SOLID - INITIAL	45853.03	mg/kg	mg/kg																
70362-50-4	PCB 81	SOLID - INITIAL	8940.63	mg/kg	mg/kg																
74472-37-0	PCB 114	SOLID - INITIAL	8940.63	mg/kg	mg/kg																
100-02-7	4-Nitrophenol	SOLID	0.04	mg/kg	ug/kg																
100-41-4	Ethylbenzene	SOLID	0.53	mg/kg	ug/kg																
100-42-5	Styrene	SOLID	1.04	mg/kg	ug/kg																
10061-01-5	cis 1,3-Dichloropropene	SOLID	#N/A	mg/kg	ug/kg																
10061-02-6	trans 1,3-Dichloropropene	SOLID	#N/A	mg/kg	ug/kg																
103-65-1	Propylbenzene	SOLID	0.28	mg/kg	ug/kg																
104-51-8	n-Butylbenzene	SOLID	1.39	mg/kg	ug/kg																
105-67-9	2,4-Dimethylphenol	SOLID	1.18	mg/kg	ug/kg																
106-43-4	4-Chlorotoluene	SOLID	#N/A	mg/kg	ug/kg																
106-44-5	4-Methylphenol	SOLID	0.53	mg/kg	ug/kg																
106-46-7	1,4-Dichlorobenzene	SOLID	48.01	mg/kg	ug/kg																
106-93-4	1,2-Dibromoethane	SOLID	#N/A	mg/kg	ug/kg																
107-06-2	1,2-Dichloroethane	SOLID	#N/A	mg/kg	ug/kg																
108-67-8	1,3,5-Trimethylbenzene	SOLID	0.15	mg/kg	ug/kg																
108-86-1	Bromobenzene	SOLID	#N/A	mg/kg	ug/kg																
108-88-3	Toluene	SOLID	0.88	mg/kg	ug/kg																
108-90-7	Chlorobenzene	SOLID	4.46	mg/kg	ug/kg																
108-95-2	Phenol	SOLID	0.04	mg/kg	ug/kg																
111-44-4	Bis(2-chloroethyl)ether	SOLID	#N/A	mg/kg	ug/kg																
111-91-1	Bis(2-chloroethoxy)methane	SOLID	0.01	mg/kg	ug/kg																
117-81-7	Bis(2-ethylhexyl)phthalate	SOLID	18472.17	mg/kg	ug/kg																
117-84-0	n-Dioctylphthalate	SOLID	146035.35	mg/kg	ug/kg																
118-74-1	Hexachlorobenzene	SOLID	0.23	mg/kg	ug/kg																
120-82-1	1,2,4-Trichlorobenzene	SOLID	1.81	mg/kg	ug/kg																
120-83-2	2,4-Dichlorophenol	SOLID	0.28	mg/kg	ug/kg																
121-14-2	2,4-Dinitrotoluene	SOLID	0.00	mg/kg	ug/kg																
124-48-1	Dibromochloromethane	SOLID	#N/A	mg/kg	ug/kg																
127-18-4	Tetrachloroethene	SOLID	1.46	mg/kg	ug/kg																
131-11-3	Dimethyl phthalate	SOLID	#N/A	mg/kg	ug/kg																
132-64-9	Dibenzofuran	SOLID	0.49	mg/kg	ug/kg																
135-98-8	sec-Butylbenzene	SOLID	1.39	mg/kg	ug/kg																
142-28-9	1,3-Dichloropropane	SOLID	#N/A	mg/kg	ug/kg																
156-59-2	cis 1,2-Dichloroethene	SOLID	0.31	mg/kg	ug/kg																
156-60-5	trans 1,2-Dichloroethene	SOLID	#N/A	mg/kg	ug/kg																
198-55-0	Perylene	SOLID	206.28	mg/kg	ug/kg																
39638-32-9	Bis(2-chloroisopropyl)ether	SOLID	#N/A	mg/kg	ug/kg																
541-73-1	1,3-Dichlorobenzene	SOLID	145.60	mg/kg	ug/kg																
56-23-5	Carbon Tetrachloride	SOLID	#N/A	mg/kg	ug/kg																
563-58-6	1,1-Dichloropropene	SOLID	0.41	mg/kg	ug/kg																
594-20-7	2,2-Dichloropropane	SOLID	#N/A	mg/kg	ug/kg																
59-50-7	4-Chloro-3-methylphenol	SOLID	2.93	mg/kg	ug/kg																
606-20-2	2,6-Dinitrotoluene	SOLID	1.48	mg/kg	ug/kg																
621-64-7	n-Nitroso-n-dipropylamine	SOLID	#N/A	mg/kg	ug/kg																
630-20-6	1,1,1,2-Tetrachloroethane	SOLID	#N/A	mg/kg	ug/kg																
67-66-3	Chloroform	SOLID	#N/A	mg/kg	ug/kg																
67-72-1	Hexachloroethane	SOLID	3.21	mg/kg	ug/kg																
71-43-2	Benzene	SOLID	0.00	mg/kg	ug/kg																

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Hole Ref	AEC17-H24-BH101	AEC17-H24-BH101	AEC17-H24-BH101	AEC17-H24-BH101	AEC17-H24-BH102	AEC17-H24-BH102	AEC17-H24-BH102	AEC17-H24-BH102	AEC17-H24-BH102	AEC17-H24-BH102	AEC17-H24-BH102	AEC17-H24-BH103	AEC17-H24-BH103	AEC17-H24-BH103	AEC17-H24-BH104	AEC17-H24-BH104	AEC17-H24-BH104	AEC17-H24-BH104	AEC17-H24-BH105	AEC17-H24-BH105	AEC17-H24-BH105
Sample Top	0.60	1.50	3.00	6.00	1.20	12.00	17.00	20.00	3.00	7.00	1.00	1.50	3.50	0.30	1.50	2.30	4.30	0.30	1.70	3.00	
Lookup soil	MG	MG	MG	CHK	GTA	CHK	CHK	CHK	GTA	CHK	MG	MG	GTA	MG	CWF	CWF	CWF	MG	CWF	CWF	
Sample Ref																					
Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
71-55-6	1,1,1-Trichloroethane	SOLID	#N/A	mg/kg	ug/kg																
7440-39-3	Barium	SOLID	78.73	mg/kg	mg/kg																
74-83-9	Bromomethane	SOLID	#N/A	mg/kg	ug/kg																
74-87-3	Chloromethane	SOLID	0.02	mg/kg	ug/kg																
74-95-3	Dibromomethane	SOLID	#N/A	mg/kg	ug/kg																
74-97-5	Bromochloromethane	SOLID	#N/A	mg/kg	ug/kg																
75-00-3	Chloroethane	SOLID	#N/A	mg/kg	ug/kg																
75-01-4	Vinyl Chloride	SOLID	#N/A	mg/kg	ug/kg																
75-09-2	Dichloromethane	SOLID	0.03	mg/kg	ug/kg																
75-15-0	Carbon Disulphide	SOLID	0.07	mg/kg	ug/kg																
75-25-2	Bromoform	SOLID	#N/A	mg/kg	ug/kg																
75-27-4	Bromodichloromethane	SOLID	#N/A	mg/kg	ug/kg																
75-34-3	1,1-Dichloroethane	SOLID	0.01	mg/kg	ug/kg																
75-35-4	1,1-Dichloroethene	SOLID	#N/A	mg/kg	ug/kg																
75-69-4	Trichlorofluoromethane	SOLID	0.05	mg/kg	ug/kg																
75-71-8	Dichlorodifluoromethane	SOLID	#N/A	mg/kg	ug/kg																
77-47-4	Hexachlorocyclopentadiene	SOLID	#N/A	mg/kg	ug/kg																
78-59-1	Isophorone	SOLID	22.26	mg/kg	ug/kg																
78-87-5	1,2-Dichloropropane	SOLID	#N/A	mg/kg	ug/kg																
79-00-5	1,1,2-Trichloroethane	SOLID	#N/A	mg/kg	ug/kg																
79-01-6	Trichloroethene	SOLID	0.09	mg/kg	ug/kg																
79-34-5	1,1,2,2-Tetrachloroethane	SOLID	2.66	mg/kg	ug/kg																
84-66-2	Diethyl phthalate	SOLID	3.11	mg/kg	ug/kg																
84-74-2	Di-N-Butyl Phthalate	SOLID	0.52	mg/kg	ug/kg																
85-68-7	Butylbenzyl phthalate	SOLID	23.36	mg/kg	ug/kg																
86-74-8	Carbazole	SOLID	0.01	mg/kg	ug/kg																
87-61-6	1,2,3-Trichlorobenzene	SOLID	#N/A	mg/kg	ug/kg																
87-68-3	Hexachlorobutadiene	SOLID	#N/A	mg/kg	ug/kg																
87-86-5	Pentachlorophenol	SOLID	2.17	mg/kg	ug/kg																
88-06-2	2,4,6-Trichlorophenol	SOLID	#N/A	mg/kg	ug/kg																
88-75-5	2-Nitrophenol	SOLID	0.03	mg/kg	ug/kg																
91-57-6	2-Methylnaphthalene (SVOC) DEFAULT	SOLID	0.84	mg/kg	ug/kg																
91-58-7	2-Chloronaphthalene	SOLID	0.92	mg/kg	ug/kg																
95-47-6	Xylene	SOLID	0.23	mg/kg	ug/kg																
95-48-7	2-Methylphenol	SOLID	0.54	mg/kg	ug/kg																
95-49-8	2-Chlorotoluene	SOLID	#N/A	mg/kg	ug/kg																
95-50-1	1,2-Dichlorobenzene	SOLID	40.42	mg/kg	ug/kg																
95-57-8	2-Chlorophenol	SOLID	#N/A	mg/kg	ug/kg																
95-63-6	1,2,4-Trimethylbenzene	SOLID	0.25	mg/kg	ug/kg																
95-95-4	2,4,5-Trichlorophenol	SOLID	60.93	mg/kg	ug/kg																
96-12-8	1,2-Dibromo-3-chloropropane	SOLID	#N/A	mg/kg	ug/kg																
96-18-4	1,2,3-Trichloropropane	SOLID	0.44	mg/kg	ug/kg																
98-06-6	tert-Butylbenzene	SOLID	0.75	mg/kg	ug/kg																
98-82-8	Isopropylbenzene	SOLID	0.27	mg/kg	ug/kg																
98-95-3	Nitrobenzene	SOLID	0.00	mg/kg	ug/kg																
99-87-6	4-Isopropyltoluene	SOLID	54.06	mg/kg	ug/kg																
P1374	Xylene	SOLID	0.23	mg/kg	ug/kg																
P1762	TPH Aromatic >C8-C10	SOLID	219.16	mg/kg	mg/kg																
P1763	TPH Aromatic >C8-C10	SOLID	219.16	mg/kg	mg/kg																
P1334	pH	SOLID	#N/A	mg/kg	pH																
101-21-3	Chlorpropham	SOLID	#N/A	mg/kg	mg/kg																
1014-70-6	Simetryn SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																
1024-57-3	Heptachlor Epoxide	SOLID	#N/A	mg/kg	ug/kg																
1031-07-8	Endosulphan Sulphate	SOLID	#N/A	mg/kg	ug/kg																
117-18-0	Tecnazene	SOLID	#N/A	mg/kg	ug/kg																
120-36-5	2,4-DP; (Dichlorprop)	SOLID	#N/A	mg/kg	mg/kg																
121-75-5	Malathion	SOLID	#N/A	mg/kg	ug/kg																
122-14-5	Fenitrothion	SOLID	#N/A	mg/kg	ug/kg																
122-34-9	Simazine SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																
122-42-9	Propham	SOLID	#N/A	mg/kg	mg/kg																
122-88-3	4-CPA	SOLID	#N/A	mg/kg	mg/kg																
13684-63-4	Phenmedipham	SOLID	#N/A	mg/kg	mg/kg																
139-40-2	Propazine SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																
1461-22-9	Tributyltin SUBCON i2	SOLID	#N/A	mg/kg	ug/kg																
150-68-5	Monuron	SOLID	#N/A	mg/kg	mg/kg																
15545-48-9	Chlortoluron	SOLID	#N/A	mg/kg	mg/kg																
1582-09-8	Trifluralin SUBCON Alcontrol OCP	SOLID	#N/A	mg/kg	ug/kg																
1610-17-9	Atraton SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																

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Hole Ref	AEC17-H24-BH101	AEC17-H24-BH101	AEC17-H24-BH101	AEC17-H24-BH101	AEC17-H24-BH102	AEC17-H24-BH102	AEC17-H24-BH102	AEC17-H24-BH102	AEC17-H24-BH102	AEC17-H24-BH102	AEC17-H24-BH102	AEC17-H24-BH103	AEC17-H24-BH103	AEC17-H24-BH103	AEC17-H24-BH104	AEC17-H24-BH104	AEC17-H24-BH104	AEC17-H24-BH104	AEC17-H24-BH105	AEC17-H24-BH105	AEC17-H24-BH105	
Sample Top	0.60	1.50	3.00	6.00	1.20	12.00	17.00	20.00	3.00	7.00	1.00	1.50	3.50	0.30	1.50	2.30	4.30	0.30	1.70	3.00		
Lookup soil	MG	MG	MG	CHK	GTA	CHK	CHK	CHK	GTA	CHK	MG	MG	GTA	MG	CWF	CWF	CWF	CWF	MG	CWF	CWF	
Sample Ref																						
Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	
1610-18-0	Prometon SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																	
16118-49-3	Carbetamide	SOLID	#N/A	mg/kg	mg/kg																	
1689-83-4	loxynil	SOLID	#N/A	mg/kg	mg/kg																	
1689-84-5	Bromoxynil	SOLID	#N/A	mg/kg	mg/kg																	
1702-17-6	Clopyralid	SOLID	#N/A	mg/kg	mg/kg																	
1746-81-2	Monolinuron	SOLID	#N/A	mg/kg	mg/kg																	
18691-97-9	Methabenzthiazuron	SOLID	#N/A	mg/kg	mg/kg																	
1897-45-6	Chlorothalonil	SOLID	#N/A	mg/kg	ug/kg																	
1912-24-9	Atrazine SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																	
1918-00-9	Dicamba	SOLID	#N/A	mg/kg	mg/kg																	
6607	Picloram	SOLID	#N/A	mg/kg	mg/kg																	
1967-16-4	Chlorbufam	SOLID	#N/A	mg/kg	mg/kg																	
1982-47-4	Chloroxuron	SOLID	#N/A	mg/kg	mg/kg																	
19937-59-8	Metoxuron	SOLID	#N/A	mg/kg	mg/kg																	
2132-70-9	p,p-Methoxychlor	SOLID	#N/A	mg/kg	ug/kg																	
2274-67-1	Chlorpyrifos-methyl	SOLID	#N/A	mg/kg	ug/kg																	
2303-17-5	Triallate	SOLID	#N/A	mg/kg	ug/kg																	
2310-17-0	Phosalone	SOLID	#N/A	mg/kg	ug/kg																	
23103-98-2	Pirimicarb	SOLID	#N/A	mg/kg	mg/kg																	
24017-47-8	Triazophos	SOLID	#N/A	mg/kg	ug/kg																	
25057-89-0	Bentazone	SOLID	#N/A	mg/kg	mg/kg																	
2642-71-9	Azinphos-ethyl	SOLID	#N/A	mg/kg	ug/kg																	
2921-88-2	Chlorpyrifos	SOLID	#N/A	mg/kg	ug/kg																	
29232-93-7	Pirimiphos Methyl	SOLID	#N/A	mg/kg	ug/kg																	
297-78-9	Telodrin	SOLID	#N/A	mg/kg	ug/kg																	
298-00-0	Methyl Parathion	SOLID	#N/A	mg/kg	ug/kg																	
298-01-1	Mevinphos	SOLID	#N/A	mg/kg	ug/kg																	
298-04-4	Disulfoton SUBCON OCP Alcontrol	SOLID	#N/A	mg/kg	ug/kg																	
29973-13-5	Ethiofencarb	SOLID	#N/A	mg/kg	mg/kg																	
30667-99-3	o,p-Methoxychlor	SOLID	#N/A	mg/kg	ug/kg																	
309-00-2	Aldrin SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																	
31218-83-4	Propetamphos	SOLID	#N/A	mg/kg	ug/kg																	
314-40-9	Bromacil	SOLID	#N/A	mg/kg	mg/kg																	
319-84-6	alpha-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																	
	beta-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																	
319-85-7		SOLID	#N/A	mg/kg	ug/kg																	
330-54-1	Diuron SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																	
330-55-2	Linuron	SOLID	#N/A	mg/kg	mg/kg																	
33213-65-9	Endosulphan II	SOLID	#N/A	mg/kg	ug/kg																	
333-41-5	Diazinon	SOLID	#N/A	mg/kg	ug/kg																	
34123-59-6	Isoproturon	SOLID	#N/A	mg/kg	mg/kg																	
34205-21-5	Dimefuron	SOLID	#N/A	mg/kg	mg/kg																	
3424-82-6	o,p-DDE	SOLID	#N/A	mg/kg	ug/kg																	
35367-38-5	Diflufenzuron	SOLID	#N/A	mg/kg	mg/kg																	
698836	Benazolin	SOLID	#N/A	mg/kg	mg/kg																	
38260-54-7	Etrimpfos	SOLID	#N/A	mg/kg	ug/kg																	
40483-25-2	Diclofop	SOLID	#N/A	mg/kg	mg/kg																	
40487-42-1	Pendimethalin	SOLID	#N/A	mg/kg	ug/kg																	
43121-43-3	Triadimefon	SOLID	#N/A	mg/kg	ug/kg																	
465-73-6	Isodrin	SOLID	#N/A	mg/kg	ug/kg																	
470-90-6	Chlorfenvinphos	SOLID	#N/A	mg/kg	ug/kg																	
50-29-3	p,p-DDT SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																	
50-31-7	2,3,6-TBA	SOLID	#N/A	mg/kg	mg/kg																	
5103-71-9	cis-Chlordane SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																	
5103-74-2	trans-Chlordane SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																	
51630-58-1	Fenvalerate SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																	
52315-07-8	Cypermethrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																	
52645-53-1	Permethrin SUBCON RPS MH Pyrethroids	SOLID	#N/A	mg/kg	mg/kg																	
52756-22-6	Fiamprop-isopropyl	SOLID	#N/A	mg/kg	mg/kg																	
52918-63-5	Deltamethrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																	
53-19-0	o,p-TDE (DDD)	SOLID	#N/A	mg/kg	ug/kg																	
55335-06-3	Triclopyr	SOLID	#N/A	mg/kg	mg/kg																	
55-38-9	Fenthion	SOLID	#N/A	mg/kg	ug/kg																	
563-12-2	Ethion	SOLID	#N/A	mg/kg	ug/kg																	
56-38-2	Parathion (Ethyl Parathion)	SOLID	#N/A	mg/kg	ug/kg																	
58667-63-3	Fiamprop	SOLID	#N/A	mg/kg	mg/kg																	

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Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	Hole Ref																			
						AEC17-H24-BH101	AEC17-H24-BH101	AEC17-H24-BH101	AEC17-H24-BH101	AEC17-H24-BH102	AEC17-H24-BH102	AEC17-H24-BH102	AEC17-H24-BH102	AEC17-H24-BH102	AEC17-H24-BH102	AEC17-H24-BH102	AEC17-H24-BH102	AEC17-H24-BH102	AEC17-H24-BH102	AEC17-H24-BH102	AEC17-H24-BH102	AEC17-H24-BH102	AEC17-H24-BH102	AEC17-H24-BH102	
						0.60	1.50	3.00	6.00	1.20	12.00	17.00	20.00	3.00	7.00	1.00	1.50	3.50	0.30	1.50	2.30	4.30	0.30	1.70	3.00
						MG	MG	MG	CHK	GTA	CHK	CHK	CHK	GTA	CHK	MG	MG	GTA	MG	CWF	CWF	CWF	MG	CWF	CWF
						ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
31508-00-6	PCB-118 2,3',4,4',5 - Pentachlorobiphenyl	SOLID - INITIAL	694.02	mg/kg	ng/g																				
32598-13-3	PCB 77	SOLID - INITIAL	6185.41	mg/kg	ng/g																				
32598-14-4	PCB 105	SOLID - INITIAL	8940.63	mg/kg	ng/g																				
3268-87-9	Octachlorodibenzo-p-dioxin	SOLID - INITIAL	91923.81	mg/kg	ng/g																				
32774-16-6	PCB 169	SOLID - INITIAL	37270.75	mg/kg	ng/g																				
3380-34-5	Triclosan	SOLID - INITIAL	0.33	mg/kg	mg/kg																				
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-P-Dioxin	SOLID - INITIAL	91923.81	mg/kg	ng/g																				
38380-08-4	PCB-156 2,3,3,4,4,5 - Hexachlorobiphenyl	SOLID - INITIAL	3172.26	mg/kg	ng/g																				
39001-02-0	Octachlorodibenzofuran	SOLID - INITIAL	46180.43	mg/kg	ng/g																				
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-P-Dioxin	SOLID - INITIAL	36595.53	mg/kg	ng/g																				
39635-31-9	PCB 189	SOLID - INITIAL	270002.64	mg/kg	ng/g																				
40321-76-4	1,2,3,7,8-Pentachlorodibenzo-P-Dioxin	SOLID - INITIAL	#N/A	mg/kg	ng/g																				
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	SOLID - INITIAL	393.06	mg/kg	ng/g																				
52645-53-1	Permethrin	SOLID - INITIAL	#N/A	mg/kg	ug/kg																				
52663-72-6	PCB 167	SOLID - INITIAL	45853.03	mg/kg	ng/g																				
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	SOLID - INITIAL	9648.46	mg/kg	ng/g																				
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	SOLID - INITIAL	964.85	mg/kg	ng/g																				
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	SOLID - INITIAL	715.25	mg/kg	ng/g																				
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	SOLID - INITIAL	715.25	mg/kg	ng/g																				
57465-28-8	PCB 126	SOLID - INITIAL	8940.63	mg/kg	ng/g																				
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-P-Dioxin	SOLID - INITIAL	91923.81	mg/kg	ng/g																				
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofura	SOLID - INITIAL	715.25	mg/kg	ng/g																				
62476-59-9	Acifluorfen	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
65510-44-3	PCB 123	SOLID - INITIAL	8940.63	mg/kg	ng/g																				
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	SOLID - INITIAL	715.25	mg/kg	ng/g																				
69782-90-7	PCB 157	SOLID - INITIAL	45853.03	mg/kg	ng/g																				
70362-50-4	PCB 81	SOLID - INITIAL	8940.63	mg/kg	ng/g																				
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	SOLID - INITIAL	715.25	mg/kg	ng/g																				
7085-19-0	mecoprop	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
72-43-5	Methoxychlor	SOLID - INITIAL	#N/A	mg/kg	ug/kg																				
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	SOLID - INITIAL	#N/A	mg/kg	ng/g																				
74472-37-0	PCB 114	SOLID - INITIAL	8940.63	mg/kg	ng/g																				
88-85-7	Dinoseb	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
892-20-6	Triphenyltin	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
P1330	BTEX	SOLID - INITIAL	0.00	mg/kg	ug/kg																				
P1354	TPH Aromatic >C6-C7	SOLID - INITIAL	0.05	mg/kg	ug/kg																				
P1355	TPH Aromatics > C7-C8	SOLID - INITIAL	#N/A	mg/kg	ug/kg																				
P1356	Aromatics >C8-10	SOLID - INITIAL	#N/A	mg/kg	ug/kg																				
P1357	Aromatics >C10-12	SOLID - INITIAL	#N/A	mg/kg	ug/kg																				
P1358	Aromatics >C12-16	SOLID - INITIAL	#N/A	mg/kg	ug/kg																				
P1359	Aromatics >C16-21	SOLID - INITIAL	#N/A	mg/kg	ug/kg																				
P1360	Aromatics >C21-35	SOLID - INITIAL	#N/A	mg/kg	ug/kg																				
P1362	Aromatics >C35-44	SOLID - INITIAL	#N/A	mg/kg	ug/kg																				
P1407	Aliphatics >C5-6	SOLID - INITIAL	#N/A	mg/kg	ug/kg																				
P1408	Aliphatics >C6-8	SOLID - INITIAL	#N/A	mg/kg	ug/kg																				
P1409	Aliphatics >C8-10	SOLID - INITIAL	#N/A	mg/kg	ug/kg																				
P1410	Aliphatics >C10-12	SOLID - INITIAL	#N/A	mg/kg	ug/kg																				
P1411	Aliphatics >C12-16	SOLID - INITIAL	#N/A	mg/kg	ug/kg																				
P1412	Aliphatics >C16-21	SOLID - INITIAL	#N/A	mg/kg	ug/kg																				
P1413	Aliphatics >C21-35	SOLID - INITIAL	#N/A	mg/kg	ug/kg																				
P1415	Aliphatics >C35-44	SOLID - INITIAL	#N/A	mg/kg	ug/kg																				
15541-45-4	Bromate	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
16065-83-1	Trivalent Chromium	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
16887-00-6	Chloride	SOLID - INITIAL	268.18	mg/kg	mg/kg																				
16984-48-8	Fluoride	SOLID - INITIAL	0.41	mg/kg	mg/kg																				
18496-25-8	Sulphide	SOLID - INITIAL	#VALUE!	mg/kg	mg/kg																				
24959-67-9	Bromide	SOLID - INITIAL	#VALUE!	mg/kg	mg/kg																				
7439-89-6	Iron	SOLID - INITIAL	44.05	mg/kg	mg/kg																				
7439-95-4	Magnesium	SOLID - INITIAL	0.00	mg/kg	mg/kg																				
7439-98-7	Molybdenum	SOLID - INITIAL	0.10	mg/kg	mg/kg																				
2023695	Potassium	SOLID - INITIAL	0.00	mg/kg	mg/kg																				
7440-23-5	Sodium	SOLID - INITIAL	263.64	mg/kg	mg/kg																				
7440-70-2	Calcium	SOLID - INITIAL	0.00	mg/kg	mg/kg																				
P1238	Ammoniacal Nitrogen as N	SOLID - INITIAL	0.11	mg/kg	mg/kg																				
P1286	Manganese	SOLID - INITIAL	2.51																						

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					Hole Ref	AEC17-H24-BH101	AEC17-H24-BH101	AEC17-H24-BH101	AEC17-H24-BH101	AEC17-H24-BH102	AEC17-H24-BH102	AEC17-H24-BH102	AEC17-H24-BH102	AEC17-H24-BH102	AEC17-H24-BH102	AEC17-H24-BH102	AEC17-H24-BH103	AEC17-H24-BH103	AEC17-H24-BH103	AEC17-H24-BH104	AEC17-H24-BH104	AEC17-H24-BH104	AEC17-H24-BH104	AEC17-H24-BH105	AEC17-H24-BH105	AEC17-H24-BH105
					Sample Top	0.60	1.50	3.00	6.00	1.20	12.00	17.00	20.00	3.00	7.00	1.00	1.50	3.50	0.30	1.50	2.30	4.30	0.30	1.70	3.00	
					Lookup soil	MG	MG	MG	CHK	GTA	CHK	CHK	CHK	GTA	CHK	MG	MG	GTA	MG	CWF	CWF	CWF	MG	CWF	CWF	
					Sample Ref																					
Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	
103-33-3	Azobenzene	SOLID - INITIAL	0.38	mg/kg	ug/kg																					
106-47-8	4-Chloroaniline	SOLID - INITIAL	0.01	mg/kg	ug/kg																					
700-57-23	4-Chlorophenylphenylether	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					
88-74-4	2-Nitroaniline	SOLID - INITIAL	0.01	mg/kg	ug/kg																					
99-09-2	3-Nitroaniline	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					
994-05-8	Tertiary Amyl Methyl Ether	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					
1336-36-6	PCB Total (WAC only)	SOLID	#N/A	mg/kg	mg/kg																					
P1330	BTEX (total) WAC	SOLID	#N/A	mg/kg	mg/kg																					

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Hole Ref	AEC17-H24-BH106	AEC17-H24-BH106	AEC17-H24-BH106	AEC17-H24-BH106	AEC17-H24-TP101	AEC17-H24-TP102	AEC17-H24-TP102	AEC17-H24-TP102	AEC17-H24-TP102	AEC17-H24-TP104	AEC17-H24-TP104	AEC17-H24-TP104	AEC17-H24-TP105	AEC17-H24-TP105	AEC17-H24-TP105	AEC17-H24-TP105	AEC17-H24-TP105	AEC17-H24-TP107	AEC17-H24-TP107	AEC17-H24-TP107	
Sample Top	0.30	1.30	2.30	4.30	3.50	0.25	0.90	1.90	3.00	0.30	1.40	2.00	0.30	0.50	0.80	1.30	2.00	0.30	0.90	2.00	
Lookup soil	MG	MG	MG	CWF	MG	MG	MG	MG	CWF	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	CWF	
Sample Ref																					
Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
71-55-6	1,1,1-Trichloroethane	SOLID	#N/A	mg/kg	ug/kg																
7440-39-3	Barium	SOLID	78.73	mg/kg	mg/kg																
74-83-9	Bromomethane	SOLID	#N/A	mg/kg	ug/kg																
74-87-3	Chloromethane	SOLID	0.02	mg/kg	ug/kg																
74-95-3	Dibromomethane	SOLID	#N/A	mg/kg	ug/kg																
74-97-5	Bromochloromethane	SOLID	#N/A	mg/kg	ug/kg																
75-00-3	Chloroethane	SOLID	#N/A	mg/kg	ug/kg																
75-01-4	Vinyl Chloride	SOLID	#N/A	mg/kg	ug/kg																
75-09-2	Dichloromethane	SOLID	0.03	mg/kg	ug/kg																
75-15-0	Carbon Disulphide	SOLID	0.07	mg/kg	ug/kg																
75-25-2	Bromoform	SOLID	#N/A	mg/kg	ug/kg																
75-27-4	Bromodichloromethane	SOLID	#N/A	mg/kg	ug/kg																
75-34-3	1,1-Dichloroethane	SOLID	0.01	mg/kg	ug/kg																
75-35-4	1,1-Dichloroethene	SOLID	#N/A	mg/kg	ug/kg																
75-69-4	Trichlorofluoromethane	SOLID	0.05	mg/kg	ug/kg																
75-71-8	Dichlorodifluoromethane	SOLID	#N/A	mg/kg	ug/kg																
77-47-4	Hexachlorocyclopentadiene	SOLID	#N/A	mg/kg	ug/kg																
78-59-1	Isophorone	SOLID	22.26	mg/kg	ug/kg																
78-87-5	1,2-Dichloropropane	SOLID	#N/A	mg/kg	ug/kg																
79-00-5	1,1,2-Trichloroethane	SOLID	#N/A	mg/kg	ug/kg																
79-01-6	Trichloroethene	SOLID	0.09	mg/kg	ug/kg																
79-34-5	1,1,2,2-Tetrachloroethane	SOLID	2.66	mg/kg	ug/kg																
84-66-2	Diethyl phthalate	SOLID	3.11	mg/kg	ug/kg																
84-74-2	Di-N-Butyl Phthalate	SOLID	0.52	mg/kg	ug/kg																
85-68-7	Butylbenzyl phthalate	SOLID	23.36	mg/kg	ug/kg																
86-74-8	Carbazole	SOLID	0.01	mg/kg	ug/kg																
87-61-6	1,2,3-Trichlorobenzene	SOLID	#N/A	mg/kg	ug/kg																
87-68-3	Hexachlorobutadiene	SOLID	#N/A	mg/kg	ug/kg																
87-86-5	Pentachlorophenol	SOLID	2.17	mg/kg	ug/kg																
88-06-2	2,4,6-Trichlorophenol	SOLID	#N/A	mg/kg	ug/kg																
88-75-5	2-Nitrophenol	SOLID	0.03	mg/kg	ug/kg																
91-57-6	2-Methylnaphthalene (SVOC) DEFAULT	SOLID	0.84	mg/kg	ug/kg																
91-58-7	2-Chloronaphthalene	SOLID	0.92	mg/kg	ug/kg																
95-47-6	Xylene	SOLID	0.23	mg/kg	ug/kg																
95-48-7	2-Methylphenol	SOLID	0.54	mg/kg	ug/kg																
95-49-8	2-Chlorotoluene	SOLID	#N/A	mg/kg	ug/kg																
95-50-1	1,2-Dichlorobenzene	SOLID	40.42	mg/kg	ug/kg																
95-57-8	2-Chlorophenol	SOLID	#N/A	mg/kg	ug/kg																
95-63-6	1,2,4-Trimethylbenzene	SOLID	0.25	mg/kg	ug/kg																
95-95-4	2,4,5-Trichlorophenol	SOLID	60.93	mg/kg	ug/kg																
96-12-8	1,2-Dibromo-3-chloropropane	SOLID	#N/A	mg/kg	ug/kg																
96-18-4	1,2,3-Trichloropropane	SOLID	0.44	mg/kg	ug/kg																
98-06-6	tert-Butylbenzene	SOLID	0.75	mg/kg	ug/kg																
98-82-8	Isopropylbenzene	SOLID	0.27	mg/kg	ug/kg																
98-95-3	Nitrobenzene	SOLID	0.00	mg/kg	ug/kg																
99-87-6	4-Isopropyltoluene	SOLID	54.06	mg/kg	ug/kg																
P1374	Xylene	SOLID	0.23	mg/kg	ug/kg																
P1762	TPH Aromatic >C8-C10	SOLID	219.16	mg/kg	mg/kg																
P1763	TPH Aromatic >C8-C10	SOLID	219.16	mg/kg	mg/kg																
P1334	pH	SOLID	#N/A	mg/kg	pH																
101-21-3	Chlorpropham	SOLID	#N/A	mg/kg	mg/kg																
1014-70-6	Simetryn SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																
1024-57-3	Heptachlor Epoxide	SOLID	#N/A	mg/kg	ug/kg																
1031-07-8	Endosulphan Sulphate	SOLID	#N/A	mg/kg	ug/kg																
117-18-0	Tecnazene	SOLID	#N/A	mg/kg	ug/kg																
120-36-5	2,4-DP; (Dichlorprop)	SOLID	#N/A	mg/kg	mg/kg																
121-75-5	Malathion	SOLID	#N/A	mg/kg	ug/kg																
122-14-5	Fenitrothion	SOLID	#N/A	mg/kg	ug/kg																
122-34-9	Simazine SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																
122-42-9	Propham	SOLID	#N/A	mg/kg	mg/kg																
122-88-3	4-CPA	SOLID	#N/A	mg/kg	mg/kg																
13684-63-4	Phenmedipham	SOLID	#N/A	mg/kg	mg/kg																
139-40-2	Propazine SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																
1461-22-9	Tributyltin SUBCON i2	SOLID	#N/A	mg/kg	ug/kg																
150-68-5	Monuron	SOLID	#N/A	mg/kg	mg/kg																
15545-48-9	Chlortoluron	SOLID	#N/A	mg/kg	mg/kg																
1582-09-8	Trifluralin SUBCON Alcontrol OCP	SOLID	#N/A	mg/kg	ug/kg																
1610-17-9	Atraton SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																

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Hole Ref	AEC17-H24-BH106	AEC17-H24-BH106	AEC17-H24-BH106	AEC17-H24-BH106	AEC17-H24-TP101	AEC17-H24-TP102	AEC17-H24-TP102	AEC17-H24-TP102	AEC17-H24-TP102	AEC17-H24-TP104	AEC17-H24-TP104	AEC17-H24-TP104	AEC17-H24-TP105	AEC17-H24-TP105	AEC17-H24-TP105	AEC17-H24-TP105	AEC17-H24-TP105	AEC17-H24-TP107	AEC17-H24-TP107	AEC17-H24-TP107	
Sample Top	0.30	1.30	2.30	4.30	3.50	0.25	0.90	1.90	3.00	0.30	1.40	2.00	0.30	0.50	0.80	1.30	2.00	0.30	0.90	2.00	
Lookup soil	MG	MG	MG	CWF	MG	MG	MG	MG	CWF	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	CWF	
Sample Ref																					
Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
1610-18-0	Prometon SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																
16118-49-3	Carbetamide	SOLID	#N/A	mg/kg	mg/kg																
1689-83-4	loxynil	SOLID	#N/A	mg/kg	mg/kg																
1689-84-5	Bromoxynil	SOLID	#N/A	mg/kg	mg/kg																
1702-17-6	Clopyralid	SOLID	#N/A	mg/kg	mg/kg																
1746-81-2	Monolinuron	SOLID	#N/A	mg/kg	mg/kg																
18691-97-9	Methabenzthiazuron	SOLID	#N/A	mg/kg	mg/kg																
1897-45-6	Chlorothalonil	SOLID	#N/A	mg/kg	ug/kg																
1912-24-9	Atrazine SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																
1918-00-9	Dicamba	SOLID	#N/A	mg/kg	mg/kg																
6607	Picloram	SOLID	#N/A	mg/kg	mg/kg																
1967-16-4	Chlorbufam	SOLID	#N/A	mg/kg	mg/kg																
1982-47-4	Chloroxuron	SOLID	#N/A	mg/kg	mg/kg																
19937-59-8	Metoxuron	SOLID	#N/A	mg/kg	mg/kg																
2132-70-9	p,p-Methoxychlor	SOLID	#N/A	mg/kg	ug/kg																
2274-67-1	Chlorpyrifos-methyl	SOLID	#N/A	mg/kg	ug/kg																
2303-17-5	Triallate	SOLID	#N/A	mg/kg	ug/kg																
2310-17-0	Phosalone	SOLID	#N/A	mg/kg	ug/kg																
23103-98-2	Pirimicarb	SOLID	#N/A	mg/kg	mg/kg																
24017-47-8	Triazophos	SOLID	#N/A	mg/kg	ug/kg																
25057-89-0	Bentazone	SOLID	#N/A	mg/kg	mg/kg																
2642-71-9	Azinphos-ethyl	SOLID	#N/A	mg/kg	ug/kg																
2921-88-2	Chlorpyrifos	SOLID	#N/A	mg/kg	ug/kg																
29232-93-7	Pirimiphos Methyl	SOLID	#N/A	mg/kg	ug/kg																
297-78-9	Telodrin	SOLID	#N/A	mg/kg	ug/kg																
298-00-0	Methyl Parathion	SOLID	#N/A	mg/kg	ug/kg																
298-01-1	Mevinphos	SOLID	#N/A	mg/kg	ug/kg																
298-04-4	Disulfoton SUBCON OCP Alcontrol	SOLID	#N/A	mg/kg	ug/kg																
29973-13-5	Ethiofencarb	SOLID	#N/A	mg/kg	mg/kg																
30667-99-3	o,p-Methoxychlor	SOLID	#N/A	mg/kg	ug/kg																
309-00-2	Aldrin SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																
31218-83-4	Propetamphos	SOLID	#N/A	mg/kg	ug/kg																
314-40-9	Bromacil	SOLID	#N/A	mg/kg	mg/kg																
319-84-6	alpha-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																
	beta-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																
319-85-7		SOLID	#N/A	mg/kg	ug/kg																
330-54-1	Diuron SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																
330-55-2	Linuron	SOLID	#N/A	mg/kg	mg/kg																
33213-65-9	Endosulphan II	SOLID	#N/A	mg/kg	ug/kg																
333-41-5	Diazinon	SOLID	#N/A	mg/kg	ug/kg																
34123-59-6	Isoproturon	SOLID	#N/A	mg/kg	mg/kg																
34205-21-5	Dimefuron	SOLID	#N/A	mg/kg	mg/kg																
3424-82-6	o,p-DDE	SOLID	#N/A	mg/kg	ug/kg																
35367-38-5	Diflufenzuron	SOLID	#N/A	mg/kg	mg/kg																
698836	Benazolin	SOLID	#N/A	mg/kg	mg/kg																
38260-54-7	Etrimpfos	SOLID	#N/A	mg/kg	ug/kg																
40483-25-2	Diclofop	SOLID	#N/A	mg/kg	mg/kg																
40487-42-1	Pendimethalin	SOLID	#N/A	mg/kg	ug/kg																
43121-43-3	Triadimefon	SOLID	#N/A	mg/kg	ug/kg																
465-73-6	Isodrin	SOLID	#N/A	mg/kg	ug/kg																
470-90-6	Chlorfenvinphos	SOLID	#N/A	mg/kg	ug/kg																
50-29-3	p,p-DDT SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																
50-31-7	2,3,6-TBA	SOLID	#N/A	mg/kg	mg/kg																
5103-71-9	cis-Chlordane SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																
5103-74-2	trans-Chlordane SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																
51630-58-1	Fenvalerate SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																
52315-07-8	Cypermethrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																
52645-53-1	Permethrin SUBCON RPS MH Pyrethroids	SOLID	#N/A	mg/kg	mg/kg																
52756-22-6	Flamprop-isopropyl	SOLID	#N/A	mg/kg	mg/kg																
52918-63-5	Deltamethrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																
53-19-0	o,p-TDE (DDD)	SOLID	#N/A	mg/kg	ug/kg																
55335-06-3	Triclopyr	SOLID	#N/A	mg/kg	mg/kg																
55-38-9	Fenthion	SOLID	#N/A	mg/kg	ug/kg																
563-12-2	Ethion	SOLID	#N/A	mg/kg	ug/kg																
56-38-2	Parathion (Ethyl Parathion)	SOLID	#N/A	mg/kg	ug/kg																
58667-63-3	Fiamprop	SOLID	#N/A	mg/kg	mg/kg																

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Hole Ref	AEC17-H24-BH106	AEC17-H24-BH106	AEC17-H24-BH106	AEC17-H24-BH106	AEC17-H24-TP101	AEC17-H24-TP102	AEC17-H24-TP102	AEC17-H24-TP102	AEC17-H24-TP102	AEC17-H24-TP102	AEC17-H24-TP104	AEC17-H24-TP104	AEC17-H24-TP104	AEC17-H24-TP105	AEC17-H24-TP105	AEC17-H24-TP105	AEC17-H24-TP105	AEC17-H24-TP105	AEC17-H24-TP105	AEC17-H24-TP107	AEC17-H24-TP107	AEC17-H24-TP107
Sample Top	0.30	1.30	2.30	4.30	3.50	0.25	0.90	1.90	3.00	0.30	1.40	2.00	0.30	0.50	0.80	1.30	2.00	0.30	0.90	2.00		
Lookup soil	MG	MG	MG	CWF	MG	MG	MG	MG	CWF	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	CWF	
Sample Ref																						

Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	AEC17-H24-BH106	AEC17-H24-BH106	AEC17-H24-BH106	AEC17-H24-BH106	AEC17-H24-TP101	AEC17-H24-TP102	AEC17-H24-TP102	AEC17-H24-TP102	AEC17-H24-TP102	AEC17-H24-TP104	AEC17-H24-TP104	AEC17-H24-TP104	AEC17-H24-TP105	AEC17-H24-TP105	AEC17-H24-TP105	AEC17-H24-TP105	AEC17-H24-TP105	AEC17-H24-TP107	AEC17-H24-TP107	AEC17-H24-TP107
58-89-9	gamma-Hexachlorocyclohexane (HCH / Lindane)	SOLID	#N/A	mg/kg	ug/kg																				
5915-41-3	Terbutylazine SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																				
60-51-5	Dimethoate	SOLID	#N/A	mg/kg	ug/kg																				
60-57-1	Dieldrin SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																				
61949-76-6	Permethrin I (cis) SUBCON Alcontrol OCP	SOLID	#N/A	mg/kg	ug/kg																				
61949-77-7	Permethrin II (trans) SUBCON Alcontrol OCP	SOLID	#N/A	mg/kg	ug/kg																				
62-73-7	Dichlorvos	SOLID	#N/A	mg/kg	ug/kg																				
639-58-7	Triphenyltin SUBCON I2	SOLID	#N/A	mg/kg	ug/kg																				
66063-05-6	Pencycuron	SOLID	#N/A	mg/kg	mg/kg																				
68085-85-8	Cyhalothrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																				
683-18-1	Dibutyltin Subcon I2	SOLID	#N/A	mg/kg	ug/kg																				
68359-37-5	Cyfluthrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																				
72-20-8	Endrin SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																				
72-54-8	p,p-TDE (DDD)	SOLID	#N/A	mg/kg	ug/kg																				
72-55-9	p,p-DDE	SOLID	#N/A	mg/kg	ug/kg																				
7287-19-6	Prometryn SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																				
76-44-8	Heptachlor SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																				
786-19-6	Carbophenothion	SOLID	#N/A	mg/kg	ug/kg																				
789-02-6	o,p-DDT SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																				
81406-37-3	Fluroxypyr	SOLID	#N/A	mg/kg	mg/kg																				
82-68-8	Quintozene; (PCNB)	SOLID	#N/A	mg/kg	ug/kg																				
834-12-8	Ametryn SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																				
86-50-0	Azinphos-methyl	SOLID	#N/A	mg/kg	ug/kg																				
886-50-0	Terbutryn SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																				
93-65-2	MCPP; (Mecoprop)	SOLID	#N/A	mg/kg	mg/kg																				
93-72-1	2,4,5-TP; (Fenoprop); (Silvex)	SOLID	#N/A	mg/kg	mg/kg																				
93-76-5	2,4,5-T	SOLID	#N/A	mg/kg	mg/kg																				
94-74-6	MCPA	SOLID	#N/A	mg/kg	mg/kg																				
94-75-7	2,4-D	SOLID	#N/A	mg/kg	mg/kg																				
94-81-5	MCPB	SOLID	#N/A	mg/kg	mg/kg																				
94-82-6	2,4-DB	SOLID	#N/A	mg/kg	mg/kg																				
959-98-8	Endosulphan I	SOLID	#N/A	mg/kg	ug/kg																				
P1362	TPH Aromatic >C35-C44	SOLID	657.18	mg/kg	mg/kg																				
P1415	TPH Aliphatic >C35-C44	SOLID	6927070.30	mg/kg	mg/kg																				
120-12-7	Anthracene	SOLID	0.16	mg/kg	ug/kg																				
129-00-0	Pyrene	SOLID	1.88	mg/kg	ug/kg																				
191-24-2	Benzo(g,h,i)perylene	SOLID	2.42	mg/kg	ug/kg																				
193-39-5	Indeno(1,2,3-cd)pyrene	SOLID	0.51	mg/kg	ug/kg																				
205-99-2	Benzo(b)fluoranthene	SOLID	0.61	mg/kg	ug/kg																				
206-44-0	Fluoranthene	SOLID	0.01	mg/kg	ug/kg																				
207-08-9	Benzo(k)fluoranthene	SOLID	0.86	mg/kg	ug/kg																				
208-96-8	Acenaphthylene	SOLID	1.01	mg/kg	ug/kg																				
218-01-9	Chrysene	SOLID	6.38	mg/kg	ug/kg																				
50-32-8	Benzo(a)pyrene	SOLID	0.07	mg/kg	ug/kg																				
53-70-3	Dibenzo(a,h)anthracene	SOLID	10.80	mg/kg	ug/kg																				
56-55-3	Benzo(a)anthracene	SOLID	4.50	mg/kg	ug/kg																				
83-32-9	Acenaphthene	SOLID	965.39	mg/kg	ug/kg																				
85-01-8	Phenanthrene	SOLID	3.35	mg/kg	ug/kg																				
86-73-7	Fluorene	SOLID	1.76	mg/kg	ug/kg																				
91-20-3	Napthalene	SOLID	0.08	mg/kg	ug/kg																				
302-04-5	Thiocyanate	SOLID	62.96	mg/kg	mg/kg																				
P1879	Xylenols	SOLID - INITIAL	2.39	mg/kg	mg/kg																				
P2098	Cresols	SOLID - INITIAL	0.54	mg/kg	mg/kg																				
12001-28-4	Asbestos: Crocidolite	SOLID - INITIAL	#N/A	mg/kg	No units																				
12001-29-5	Asbestos: Chrysotile	SOLID - INITIAL	#N/A	mg/kg	No units																				
12172-67-7	Asbestos: Actinolite	SOLID - INITIAL	#N/A	mg/kg	No units																				
12172-73-5	Asbestos: Amosite	SOLID - INITIAL	#N/A	mg/kg	No units																				
14567-73-8	Asbestos: Tremolite	SOLID - INITIAL	#N/A	mg/kg	No units																				
17068-78-9	Asbestos: Anthophyllite	SOLID - INITIAL	#N/A	mg/kg	No units																				
1002-53-5	Dibutyl Tin	SOLID - INITIAL	0.00	mg/kg	mg/kg																				
1461-22-9	Tributyltin	SOLID - INITIAL	0.00	mg/kg	mg/kg																				
1461-25-2	Tetraethyl Tin	SOLID - INITIAL	0.00	mg/kg	mg/kg																				
1634-04-4	Methyl tert-butyl ether (MTBE)	SOLID - INITIAL	#N/A	mg/kg	ug/kg																				
1746-01-6	2,3,7,8-Tetrachlorodibenzo-p-dioxin	SOLID - INITIAL	#N/A	mg/kg	ng/g																				
181274-15-7	Propoxycarbazono-sodium	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-P-Dioxin	SOLID - INITIAL	94064.99	mg/kg	ng																				

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					Hole Ref	AEC17-H24-BH106	AEC17-H24-BH106	AEC17-H24-BH106	AEC17-H24-BH106	AEC17-H24-TP101	AEC17-H24-TP102	AEC17-H24-TP102	AEC17-H24-TP102	AEC17-H24-TP102	AEC17-H24-TP104	AEC17-H24-TP104	AEC17-H24-TP104	AEC17-H24-TP105	AEC17-H24-TP105	AEC17-H24-TP105	AEC17-H24-TP105	AEC17-H24-TP105	AEC17-H24-TP107	AEC17-H24-TP107	AEC17-H24-TP107
					Sample Top	0.30	1.30	2.30	4.30	3.50	0.25	0.90	1.90	3.00	0.30	1.40	2.00	0.30	0.50	0.80	1.30	2.00	0.30	0.90	2.00
					Lookup soil	MG	MG	MG	CWF	MG	MG	MG	MG	CWF	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	CWF
					Sample Ref																				
Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
103-33-3	Azobenzene	SOLID - INITIAL	0.38	mg/kg	ug/kg																				
106-47-8	4-Chloroaniline	SOLID - INITIAL	0.01	mg/kg	ug/kg																				
700-57-23	4-Chlorophenylphenylether	SOLID - INITIAL	#N/A	mg/kg	ug/kg																				
88-74-4	2-Nitroaniline	SOLID - INITIAL	0.01	mg/kg	ug/kg																				
99-09-2	3-Nitroaniline	SOLID - INITIAL	#N/A	mg/kg	ug/kg																				
994-05-8	Tertiary Amyl Methyl Ether	SOLID - INITIAL	#N/A	mg/kg	ug/kg																				
1336-36-6	PCB Total (WAC only)	SOLID	#N/A	mg/kg	mg/kg																				
P1330	BTEX (total) WAC	SOLID	#N/A	mg/kg	mg/kg																				

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Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	Hole Ref																				
						AEC17-H24-TP107	AEC17-H24-TP107	AEC17-H24-WS101	AEC17-H24-WS102	AEC17-H24-WS102	AEC17-H24-WS103	AEC17-H24-WS104	AEC17-H24-WS105	ARP16-CP-BH01	ARP16-CP-BH01	ARP16-CP-BH01	ARP16-CP-BH01	ARP16-CP-BH02	ARP16-CP-BH02	ARP16-CP-BH02	ARP16-CP-BH04	ARP16-CP-BH04	ARP16-CP-BH04	ARP16-CP-BH04	ARP16-CP-BH06	
						Sample Top	3.00	4.00	3.00	1.50	4.50	2.50	5.00	4.00	0.30	0.70	1.20	3.50	0.20	1.30	2.30	0.10	0.30	0.65	3.15	0.10
						Lookup soil	CWF	CWF	GTA	GTA	CHK	CWF	CWF	CWF	MG	MG	MG	CWF	MG	MG	CWF	MG	MG	MG	CWF	MG
						Sample Ref									1	2	3	5	1	4	5	1	2	3	6	1
							ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
100-41-4	Ethylbenzene	SOLID - INITIAL	0.53	mg/kg	mg/kg		<0.01								<0.01			<0.01	<0.01					<0.01	<0.01	
108-88-3	Toluene	SOLID - INITIAL	0.88	mg/kg	mg/kg		<0.01								<0.01			<0.01	<0.01					<0.01	<0.01	
120-12-7	Anthracene	SOLID - INITIAL	0.16	mg/kg	mg/kg		<0.03								6.5	0.8	4.7	0.1	1.3	0.0	<0.02	0.2	0.2	0.9	<0.02	<0.02
129-00-0	Pyrene	SOLID - INITIAL	1.88	mg/kg	mg/kg		<0.03								24.3	3.3	13.8	0.2	7.5	0.3	<0.07	0.9	1.2	2.9	<0.07	0.2
1330-20-7	Xylene	SOLID - INITIAL	0.23	mg/kg	mg/kg		<0.01																			
191-24-2	Benzo(g,h,i)perylene	SOLID - INITIAL	2.42	mg/kg	mg/kg		<0.03								6.2	1.1	3.1	<0.05	1.1	0.1	<0.05	0.2	0.4	0.5	<0.05	0.1
193-39-5	Indeno(1,2,3-cd)pyrene	SOLID - INITIAL	0.51	mg/kg	mg/kg		<0.03								8.0	1.3	3.8	0.1	1.3	0.1	<0.03	0.3	0.6	0.7	<0.03	0.1
205-99-2	Benzo(b)fluoranthene	SOLID - INITIAL	0.61	mg/kg	mg/kg		<0.03								11.2	1.9	5.9	0.1	2.4	0.2	<0.05	0.5	0.8	1.1	<0.05	0.2
206-44-0	Fluoranthene	SOLID - INITIAL	0.01	mg/kg	mg/kg		<0.03								27.6	3.9	16.4	0.3	8.2	0.4	<0.08	1.1	1.7	3.8	<0.08	0.2
207-08-9	Benzo(k)fluoranthene	SOLID - INITIAL	0.86	mg/kg	mg/kg		<0.03								4.7	0.7	2.6	<0.07	0.9	0.1	<0.07	0.2	0.4	0.5	<0.07	<0.07
208-96-8	Acenaphthylene	SOLID - INITIAL	1.01	mg/kg	mg/kg		<0.03								0.1	0.0	0.1	<0.01	0.0	<0.01	<0.01	<0.01	0.0	0.0	<0.01	<0.01
218-01-9	Chrysene	SOLID - INITIAL	6.38	mg/kg	mg/kg		<0.03								11.9	1.8	6.0	0.1	2.8	0.2	<0.06	0.5	0.9	1.4	<0.06	0.1
50-32-8	Benzo(a)pyrene	SOLID - INITIAL	0.07	mg/kg	mg/kg		<0.03								10.7	1.7	5.5	0.1	2.0	0.1	<0.04	0.4	0.8	1.0	<0.04	0.1
53-70-3	Dibenzo(a,h)anthracene	SOLID - INITIAL	10.80	mg/kg	mg/kg		<0.03								1.3	0.2	0.7	<0.04	0.2	<0.04	<0.04	0.1	0.1	0.1	<0.04	<0.04
56-55-3	Benzo(a)anthracene	SOLID - INITIAL	4.50	mg/kg	mg/kg		<0.03								13.4	1.9	7.5	0.1	3.2	0.2	<0.04	0.5	0.7	1.4	<0.04	0.1
57-12-5	Cyanide	SOLID - INITIAL	0.26	mg/kg	mg/kg		<0.1	0.2																		
71-43-2	Benzene	SOLID - INITIAL	0.0043	mg/kg	mg/kg		<0.01								<0.01			<0.01	<0.01					<0.01	<0.01	
7439-92-1	Lead	SOLID - INITIAL	10.00	mg/kg	mg/kg		25.0	21.0							42.0	31.0	102.0	17.0	31.0	34.0	16.0	36.0	335.0	46.0	15.0	53.0
7439-97-6	Mercury	SOLID - INITIAL	0.50	mg/kg	mg/kg		0.2	0.2							<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	0.2
7440-02-0	Nickel	SOLID - INITIAL	10.01	mg/kg	mg/kg		43.0	120.0							13.0	18.0	16.0	14.0	11.0	13.0	38.0	8.0	14.0	8.0	19.0	34.0
7440-36-0	Antimony	SOLID - INITIAL	1.26	mg/kg	mg/kg		2.0	3.1																		
7440-38-2	Arsenic	SOLID - INITIAL	5.00	mg/kg	mg/kg		11.0	16.0							5.0	5.0	6.0	6.0	5.0	6.0	2.0	5.0	8.0	6.0	14.0	11.0
7440-41-7	Beryllium	SOLID - INITIAL	5.04	mg/kg	mg/kg		2.1	4.4							1.0	1.0	1.0	1.0	1.0	1.0	3.0	<1	<1	<1	1.0	3.0
7440-42-8	Boron	SOLID - INITIAL	8.69	mg/kg	mg/kg		0.4	1.9							<1.0	<1.0	<1.0	<1.0	2.0	1.5	<1.0	<1.0	3.9	2.3	<1.0	1.8
7440-43-9	Cadmium	SOLID - INITIAL	0.50	mg/kg	mg/kg		1.1	2.7							0.9	1.0	1.0	1.2	0.7	1.2	1.5	<0.5	<0.5	<0.5	1.4	2.2
7440-47-3	Chromium	SOLID - INITIAL	315.49	mg/kg	mg/kg		27.0	47.0							17.0	23.0	21.0	34.0	16.0	21.0	28.0	12.0	20.0	12.0	26.0	37.0
7440-50-8	Copper	SOLID - INITIAL	1002.92	mg/kg	mg/kg		39.0	46.0							40.0	94.0	17.0	8.0	12.0	43.0	21.0	10.0	27.0	8.0	12.0	69.0
7440-62-2	Vanadium	SOLID - INITIAL	1.01	mg/kg	mg/kg		56.0	83.0							36.0	38.0	36.0	45.0	28.0	45.0	43.0	18.0	33.0	21.0	37.0	48.0
7440-66-6	Zinc	SOLID - INITIAL	2507.30	mg/kg	mg/kg		110.0	200.0							45.0	51.0	45.0	25.0	55.0	50.0	68.0	40.0	141.0	47.0	43.0	121.0
7782-49-2	Selenium	SOLID - INITIAL	0.50	mg/kg	mg/kg		<0.5	0.7							<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
83-32-9	Acenaphthene	SOLID - INITIAL	965.39	mg/kg	mg/kg		<0.03								2.9	0.4	2.3	0.0	0.4	0.0	<0.01	0.2	0.1	0.6	<0.01	<0.01
85-01-8	Phenanthrene	SOLID - INITIAL	3.35	mg/kg	mg/kg		<0.03								19.5	2.2	13.0	0.2	4.8	0.2	<0.03	0.9	0.7	3.4	0.1	0.1
86-73-7	Fluorene	SOLID - INITIAL	1.76	mg/kg	mg/kg		<0.03								2.2	0.3	2.0	0.0	0.4	0.0	<0.01	0.1	0.1	0.6	<0.01	<0.01
91-20-3	Napthalene	SOLID - INITIAL	0.08	mg/kg	mg/kg		<0.03								0.8	0.1	0.7	<0.03	0.1	<0.03	<0.03	0.0	0.0	0.2	<0.03	<0.03
P1186	Phenol	SOLID - INITIAL	0.04	mg/kg	mg/kg		<0.3	<0.3																		
P1310	Pah,Total	SOLID - INITIAL	#N/A	mg/kg	mg/kg		<0.10																			
P1334	pH	SOLID - INITIAL	#N/A	mg/kg	mg/kg				6.9	6.2	8.5	7.5	8.8	7.6	8.4	7.7										
P1355	TPH Aromatic >C7-C8	SOLID - INITIAL	10.42	mg/kg	mg/kg										<0.01			<0.01	<0.01					<0.01	<0.01	
P1356	TPH Aromatic >C8-C10	SOLID - INITIAL	219.16	mg/kg	mg/kg																					
P1357	TPH Aromatic >C10-C12	SOLID - INITIAL	16.54	mg/kg	mg/kg										<0.1			<0.1	<0.1					<0.1	<0.1	
P1358	TPH Aromatic >C12-C16	SOLID - INITIAL	32.96	mg/kg	mg/kg										2.7			<0.1	1.9					8.2	<0.1	
P1359	TPH Aromatic >C16-C21	SOLID - INITIAL	82.76	mg/kg	mg/kg										20.8			<0.1	8.9					19.4	<0.1	
P1360	TPH Aromatic >C21-C35	SOLID - INITIAL	657.18	mg/kg	mg/kg										78.3			<0.1	30.1					36.4	<0.1	
P1407	TPH Aliphatic >C5-6	SOLID - INITIAL	654.68	mg/kg	mg/kg										<0.01			<0.01	<0.01					<0.01	<0.01	
P1408	TPH Aliphatic >C6-8	SOLID - INITIAL	2946.18	mg/kg	mg/kg										<0.01			<0.01	<0.01					<0.01	<0.01	
P1409	TPH Aliphatic >C8-10	SOLID - INITIAL	558.25	mg/kg	mg/kg										<0.01			<0.01	<0.01	<0.01				<0.01	<0.01	
P1410	TPH Aliphatic >C10-12	SOLID - INITIAL	5510.38	mg/kg	mg/kg										<0.1			<0.1	<0.1					<0.1	<0.1	
P1411	TPH Aliphatic >C12-16	SOLID - INITIAL	87214.59	mg/kg	mg/kg										0.3			<0.1	<0.1					2.8	<0.1	
P1412	TPH Aliphatic >C16-21	SOLID - INITIAL	6927070.30	mg/kg	mg/kg										1.5			<0.1	1.7					8.7	<0.1	
P1413	TPH Aliphatic >C21-35	SOLID - INITIAL	6927070.30	mg/kg	mg/kg										25.4			<0.1	24.3					17.1	<0.1	
P1441	TPH Aromatic >C6-C7	SOLID - INITIAL	0.05	mg/kg																						

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Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	AEC17-H24-TP107	AEC17-H24-TP107	AEC17-H24-WS101	AEC17-H24-WS102	AEC17-H24-WS102	AEC17-H24-WS103	AEC17-H24-WS104	AEC17-H24-WS105	ARP16-CP-BH01	ARP16-CP-BH01	ARP16-CP-BH01	ARP16-CP-BH01	ARP16-CP-BH02	ARP16-CP-BH02	ARP16-CP-BH02	ARP16-CP-BH04	ARP16-CP-BH04	ARP16-CP-BH04	ARP16-CP-BH04	ARP16-CP-BH06
						3.00	4.00	3.00	1.50	4.50	2.50	5.00	4.00	0.30	0.70	1.20	3.50	0.20	1.30	2.30	0.10	0.30	0.65	3.15	0.10
Sample Top	Lookup soil	Sample Ref	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
108-67-8	1,3,5-Trimethylbenzene	SOLID - INITIAL	0.15	mg/kg	mg/kg																				
108-86-1	Bromobenzene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
108-90-7	Chlorobenzene	SOLID - INITIAL	4.46	mg/kg	mg/kg																				
108-95-2	Phenol	SOLID - INITIAL	0.04	mg/kg	mg/kg																				
111-91-1	Bis(2-chloroethoxy)methane	SOLID - INITIAL	0.01	mg/kg	mg/kg																				
117-81-7	Bis(2-ethylhexyl)phthalate	SOLID - INITIAL	18472.17	mg/kg	mg/kg																				
117-84-0	Di-N-Octyl Phthalate	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
118-74-1	Hexachlorobenzene (HCB)	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
120-82-1	1,2,4-Trichlorobenzene	SOLID - INITIAL	1.81	mg/kg	mg/kg																				
120-83-2	2,4-Dichlorophenol	SOLID - INITIAL	0.28	mg/kg	mg/kg																				
121-14-2	2,4-Dinitrotoluene	SOLID - INITIAL	0.00	mg/kg	mg/kg																				
122-39-4	Diphenylamine	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
124-48-1	Dibromochloromethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
127-18-4	Tetrachloroethene	SOLID - INITIAL	1.46	mg/kg	mg/kg																				
131-11-3	Dimethylphthalate	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
132-64-9	Dibenzofuran	SOLID - INITIAL	0.49	mg/kg	mg/kg																				
135-98-8	Sec-Butylbenzene	SOLID - INITIAL	1.39	mg/kg	mg/kg																				
142-28-9	1,3-Dichloropropane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
156-59-2	cis-1,2-Dichloroethene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
156-60-5	trans-1,2-Dichloroethene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
1634-04-4	Methyl tert-butyl ether (MTBE)	SOLID - INITIAL	#N/A	mg/kg	mg/kg									<0.01			<0.01	<0.01					<0.01	<0.01	
39638-32-9	Bis(2-chloroisopropyl)ether	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
528-29-0	O-Dinitrobenzene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
534-52-1	2-Methyl-4,6-Dinitrophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
541-73-1	1,3-Dichlorobenzene	SOLID - INITIAL	145.60	mg/kg	mg/kg																				
56-23-5	Tetrachloromethane (Carbon Tetra Chloride)	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
563-58-6	1,1-Dichloropropene	SOLID - INITIAL	0.41	mg/kg	mg/kg																				
58-90-2	2,3,4,6-Tetrachlorophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
594-20-7	2,2-Dichloropropane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
59-50-7	4-Chloro-3-Methylphenol	SOLID - INITIAL	2.93	mg/kg	mg/kg																				
606-20-2	2,6-Dinitrotoluene	SOLID - INITIAL	1.48	mg/kg	mg/kg																				
62-53-3	Aniline	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
630-20-6	1,1,1,2-Tetrachloroethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
67-66-3	Chloroform	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
700-57-23	4-Chlorophenyl Phenyl Ether	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
71-55-6	1,1,1-Trichloroethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
74-95-3	Dibromomethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
74-97-5	Bromochloromethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
75-01-4	Chloroethene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
75-25-2	Tribromomethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
75-27-4	Bromodichloromethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
75-34-3	1,1-Dichloroethane	SOLID - INITIAL	0.01	mg/kg	mg/kg																				
75-35-4	1,1-Dichloroethene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
77-47-4	Hexachlorocyclopentadiene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
78-87-5	1,2-Dichloropropane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
79-00-5	1,1,2-Trichloroethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
79-01-6	Trichloroethene	SOLID - INITIAL	0.09	mg/kg	mg/kg																				
84-66-2	Diethylphthalate	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
84-74-2	Di-N-Butyl Phthalate	SOLID - INITIAL	0.52	mg/kg	mg/kg																				
85-68-7	Butylbenzylphthalate	SOLID - INITIAL	23.36	mg/kg	mg/kg																				
86-74-8	Carbazole	SOLID - INITIAL	0.01	mg/kg	mg/kg																				
87-61-6	1,2,3 Trichlorobenzene	SOLID - INITIAL	0.26	mg/kg	mg/kg																				
87-68-3	Hexachlorobutadiene (HCBd)	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
87-86-5	Pentachlorophenol (PCP)	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
88-06-2	2,4,6-Trichlorophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
88-74-4	2-Nitroaniline	SOLID - INITIAL	0.01	mg/kg	mg/kg																				
91-57-6	2-Methylnaphthalene	SOLID - INITIAL	0.84	mg/kg	mg/kg																				
91-58-7	2-Chloronaphthalene	SOLID - INITIAL	0.92	mg/kg	mg/kg																				
935-95-5	2,3,5,6-Tetrachlorophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
95-47-6	Xylene	SOLID - INITIAL	0.23	mg/kg	mg/kg									<0.01			<0.01	<0.01					<0.01	<0.01	
95-48-7	2-Methylphenol	SOLID - INITIAL	0.54	mg/kg	mg/kg																				
95-49-8	2-Chlorotoluene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
95-50-1	1,2-Dichlorobenzene	SOLID - INITIAL	40.42	mg/kg	mg/kg																				
95-57-8	2-Chlorophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
95-63-6	1,2,4-Trimethylbenzene	SOLID - INITIAL	0.25	mg/kg	mg/kg																				
95-95-4	2,4,5-Trichlorophenol	SOLID - INITIAL	60.93	mg/kg	mg/kg																				
96-12-8	1,2-Dibromo-3-Chloropropane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
96-18-4	1,2,3-Trichloropropane	SOLID - INITIAL	0.44	mg/kg	mg/kg																				

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Hole Ref	AEC17-H24-TP107	AEC17-H24-TP107	AEC17-H24-WS101	AEC17-H24-WS102	AEC17-H24-WS102	AEC17-H24-WS103	AEC17-H24-WS104	AEC17-H24-WS105	ARP16-CP-BH01	ARP16-CP-BH01	ARP16-CP-BH01	ARP16-CP-BH01	ARP16-CP-BH02	ARP16-CP-BH02	ARP16-CP-BH02	ARP16-CP-BH04	ARP16-CP-BH04	ARP16-CP-BH04	ARP16-CP-BH04	ARP16-CP-BH06				
Sample Top	3.00	4.00	3.00	1.50	4.50	2.50	5.00	4.00	0.30	0.70	1.20	3.50	0.20	1.30	2.30	0.10	0.30	0.65	3.15	0.10				
Lookup soil	CWF	CWF	GTA	GTA	CHK	CWF	CWF	CWF	MG	MG	MG	CWF	MG	MG	CWF	MG	MG	MG	CWF	MG				
Sample Ref									1	2	3	5	1	4	5	1	2	3	6	1				
Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES			
71-55-6	1,1,1-Trichloroethane	SOLID	#N/A	mg/kg	ug/kg								<1											
7440-39-3	Barium	SOLID	78.73	mg/kg	mg/kg								55.0	51.0	57.0	43.0	67.0	78.0	99.0	67.0	135.0	42.0	36.0	259.0
74-83-9	Bromomethane	SOLID	#N/A	mg/kg	ug/kg								<1											
74-87-3	Chloromethane	SOLID	0.02	mg/kg	ug/kg								<10											
74-95-3	Dibromomethane	SOLID	#N/A	mg/kg	ug/kg								<1											
74-97-5	Bromochloromethane	SOLID	#N/A	mg/kg	ug/kg								<5											
75-00-3	Chloroethane	SOLID	#N/A	mg/kg	ug/kg								<1											
75-01-4	Vinyl Chloride	SOLID	#N/A	mg/kg	ug/kg								<1											
75-09-2	Dichloromethane	SOLID	0.03	mg/kg	ug/kg								<5											
75-15-0	Carbon Disulphide	SOLID	0.07	mg/kg	ug/kg								<1											
75-25-2	Bromoform	SOLID	#N/A	mg/kg	ug/kg								<1											
75-27-4	Bromodichloromethane	SOLID	#N/A	mg/kg	ug/kg								<10											
75-34-3	1,1-Dichloroethane	SOLID	0.01	mg/kg	ug/kg								<1											
75-35-4	1,1-Dichloroethene	SOLID	#N/A	mg/kg	ug/kg								<1											
75-69-4	Trichlorofluoromethane	SOLID	0.05	mg/kg	ug/kg								<1											
75-71-8	Dichlorodifluoromethane	SOLID	#N/A	mg/kg	ug/kg								<1											
77-47-4	Hexachlorocyclopentadiene	SOLID	#N/A	mg/kg	ug/kg								<100											
78-59-1	Isophorone	SOLID	22.26	mg/kg	ug/kg								<100											
78-87-5	1,2-Dichloropropane	SOLID	#N/A	mg/kg	ug/kg								<1											
79-00-5	1,1,2-Trichloroethane	SOLID	#N/A	mg/kg	ug/kg								<1											
79-01-6	Trichloroethene	SOLID	0.09	mg/kg	ug/kg								<1											
79-34-5	1,1,2,2-Tetrachloroethane	SOLID	2.66	mg/kg	ug/kg								<1											
84-66-2	Diethyl phthalate	SOLID	3.11	mg/kg	ug/kg								<100											
84-74-2	Di-N-Butyl Phthalate	SOLID	0.52	mg/kg	ug/kg								<100											
85-68-7	Butylbenzyl phthalate	SOLID	23.36	mg/kg	ug/kg								<100											
86-74-8	Carbazole	SOLID	0.01	mg/kg	ug/kg								2900.0											
87-61-6	1,2,3-Trichlorobenzene	SOLID	#N/A	mg/kg	ug/kg								<3											
87-68-3	Hexachlorobutadiene	SOLID	#N/A	mg/kg	ug/kg								<1											
87-86-5	Pentachlorophenol	SOLID	2.17	mg/kg	ug/kg								<100											
88-06-2	2,4,6-Trichlorophenol	SOLID	#N/A	mg/kg	ug/kg								<100											
88-75-5	2-Nitrophenol	SOLID	0.03	mg/kg	ug/kg								<100											
91-57-6	2-Methylnaphthalene (SVOC) DEFAULT	SOLID	0.84	mg/kg	ug/kg								851.0											
91-58-7	2-Chloronaphthalene	SOLID	0.92	mg/kg	ug/kg								<100											
95-47-6	Xylene	SOLID	0.23	mg/kg	ug/kg								<1											
95-48-7	2-Methylphenol	SOLID	0.54	mg/kg	ug/kg								<100											
95-49-8	2-Chlorotoluene	SOLID	#N/A	mg/kg	ug/kg								<1											
95-50-1	1,2-Dichlorobenzene	SOLID	40.42	mg/kg	ug/kg								<1											
95-57-8	2-Chlorophenol	SOLID	#N/A	mg/kg	ug/kg								<100											
95-63-6	1,2,4-Trimethylbenzene	SOLID	0.25	mg/kg	ug/kg								<1											
95-95-4	2,4,5-Trichlorophenol	SOLID	60.93	mg/kg	ug/kg								<100											
96-12-8	1,2-Dibromo-3-chloropropane	SOLID	#N/A	mg/kg	ug/kg								<2											
96-18-4	1,2,3-Trichloropropane	SOLID	0.44	mg/kg	ug/kg								<1											
98-06-6	tert-Butylbenzene	SOLID	0.75	mg/kg	ug/kg								<2											
98-82-8	Isopropylbenzene	SOLID	0.27	mg/kg	ug/kg								<1											
98-95-3	Nitrobenzene	SOLID	0.00	mg/kg	ug/kg								<100											
99-87-6	4-Isopropyltoluene	SOLID	54.06	mg/kg	ug/kg								<1											
P1374	Xylene	SOLID	0.23	mg/kg	ug/kg								<1											
P1762	TPH Aromatic >C8-C10	SOLID	219.16	mg/kg	mg/kg								<0.01	<0.01	<0.01									
P1763	TPH Aromatic >C8-C10	SOLID	219.16	mg/kg	mg/kg								<0.01	<0.01	<0.01									
P1334	pH	SOLID	#N/A	mg/kg	pH																			
101-21-3	Chlorpropham	SOLID	#N/A	mg/kg	mg/kg																			
1014-70-6	Simetryn SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																			
1024-57-3	Heptachlor Epoxide	SOLID	#N/A	mg/kg	ug/kg																			
1031-07-8	Endosulphan Sulphate	SOLID	#N/A	mg/kg	ug/kg																			
117-18-0	Tecnazene	SOLID	#N/A	mg/kg	ug/kg																			
120-36-5	2,4-DP; (Dichlorprop)	SOLID	#N/A	mg/kg	mg/kg																			
121-75-5	Malathion	SOLID	#N/A	mg/kg	ug/kg																			
122-14-5	Fenitrothion	SOLID	#N/A	mg/kg	ug/kg																			
122-34-9	Simazine SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																			
122-42-9	Propham	SOLID	#N/A	mg/kg	mg/kg																			
122-88-3	4-CPA	SOLID	#N/A	mg/kg	mg/kg																			
13684-63-4	Phenmedipham	SOLID	#N/A	mg/kg	mg/kg																			
139-40-2	Propazine SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																			
1461-22-9	Tributyltin SUBCON i2	SOLID	#N/A	mg/kg	ug/kg																			
150-68-5	Monuron	SOLID	#N/A	mg/kg	mg/kg																			
15545-48-9	Chlortoluron	SOLID	#N/A	mg/kg	mg/kg																			
1582-09-8	Trifluralin SUBCON Alcontrol OCP	SOLID	#N/A	mg/kg	ug/kg																			
1610-17-9	Atraton SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																			

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Hole Ref	AEC17-H24-TP107	AEC17-H24-TP107	AEC17-H24-WS101	AEC17-H24-WS102	AEC17-H24-WS102	AEC17-H24-WS103	AEC17-H24-WS104	AEC17-H24-WS105	ARP16-CP-BH01	ARP16-CP-BH01	ARP16-CP-BH01	ARP16-CP-BH01	ARP16-CP-BH02	ARP16-CP-BH02	ARP16-CP-BH02	ARP16-CP-BH04	ARP16-CP-BH04	ARP16-CP-BH04	ARP16-CP-BH04	ARP16-CP-BH04	ARP16-CP-BH06
Sample Top	3.00	4.00	3.00	1.50	4.50	2.50	5.00	4.00	0.30	0.70	1.20	3.50	0.20	1.30	2.30	0.10	0.30	0.65	3.15	0.10	
Lookup soil	CWF	CWF	GTA	GTA	CHK	CWF	CWF	CWF	MG	MG	MG	CWF	MG	MG	CWF	MG	MG	MG	CWF	MG	
Sample Ref									1	2	3	5	1	4	5	1	2	3	6	1	
Contaminant Code	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES

Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	AEC17-H24-TP107	AEC17-H24-TP107	AEC17-H24-WS101	AEC17-H24-WS102	AEC17-H24-WS102	AEC17-H24-WS103	AEC17-H24-WS104	AEC17-H24-WS105	ARP16-CP-BH01	ARP16-CP-BH01	ARP16-CP-BH01	ARP16-CP-BH01	ARP16-CP-BH02	ARP16-CP-BH02	ARP16-CP-BH02	ARP16-CP-BH04	ARP16-CP-BH04	ARP16-CP-BH04	ARP16-CP-BH04	ARP16-CP-BH04	ARP16-CP-BH06	
1610-18-0	Prometon SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																						
16118-49-3	Carbetamide	SOLID	#N/A	mg/kg	mg/kg																						
1689-83-4	loxynil	SOLID	#N/A	mg/kg	mg/kg																						
1689-84-5	Bromoxynil	SOLID	#N/A	mg/kg	mg/kg																						
1702-17-6	Clopyralid	SOLID	#N/A	mg/kg	mg/kg																						
1746-81-2	Monolinuron	SOLID	#N/A	mg/kg	mg/kg																						
18691-97-9	Methabenzthiazuron	SOLID	#N/A	mg/kg	mg/kg																						
1897-45-6	Chlorothalonil	SOLID	#N/A	mg/kg	ug/kg																						
1912-24-9	Atrazine SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																						
1918-00-9	Dicamba	SOLID	#N/A	mg/kg	mg/kg																						
6607	Picloram	SOLID	#N/A	mg/kg	mg/kg																						
1967-16-4	Chlorbufam	SOLID	#N/A	mg/kg	mg/kg																						
1982-47-4	Chloroxuron	SOLID	#N/A	mg/kg	mg/kg																						
19937-59-8	Metoxuron	SOLID	#N/A	mg/kg	mg/kg																						
2132-70-9	p,p-Methoxychlor	SOLID	#N/A	mg/kg	ug/kg																						
2274-67-1	Chlorpyrifos-methyl	SOLID	#N/A	mg/kg	ug/kg																						
2303-17-5	Triallate	SOLID	#N/A	mg/kg	ug/kg																						
2310-17-0	Phosalone	SOLID	#N/A	mg/kg	ug/kg																						
23103-98-2	Pirimicarb	SOLID	#N/A	mg/kg	mg/kg																						
24017-47-8	Triazophos	SOLID	#N/A	mg/kg	ug/kg																						
25057-89-0	Bentazone	SOLID	#N/A	mg/kg	mg/kg																						
2642-71-9	Azinphos-ethyl	SOLID	#N/A	mg/kg	ug/kg																						
2921-88-2	Chlorpyrifos	SOLID	#N/A	mg/kg	ug/kg																						
29232-93-7	Pirimiphos Methyl	SOLID	#N/A	mg/kg	ug/kg																						
297-78-9	Telodrin	SOLID	#N/A	mg/kg	ug/kg																						
298-00-0	Methyl Parathion	SOLID	#N/A	mg/kg	ug/kg																						
298-01-1	Mevinphos	SOLID	#N/A	mg/kg	ug/kg																						
298-04-4	Disulfoton SUBCON OCP Alcontrol	SOLID	#N/A	mg/kg	ug/kg																						
29973-13-5	Ethiofencarb	SOLID	#N/A	mg/kg	mg/kg																						
30667-99-3	o,p-Methoxychlor	SOLID	#N/A	mg/kg	ug/kg																						
309-00-2	Aldrin SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																						
31218-83-4	Propetamphos	SOLID	#N/A	mg/kg	ug/kg																						
314-40-9	Bromacil	SOLID	#N/A	mg/kg	mg/kg																						
319-84-6	alpha-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																						
	beta-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																						
319-85-7		SOLID	#N/A	mg/kg	ug/kg																						
330-54-1	Diuron SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																						
330-55-2	Linuron	SOLID	#N/A	mg/kg	mg/kg																						
33213-65-9	Endosulphan II	SOLID	#N/A	mg/kg	ug/kg																						
333-41-5	Diazinon	SOLID	#N/A	mg/kg	ug/kg																						
34123-59-6	Isoproturon	SOLID	#N/A	mg/kg	mg/kg																						
34205-21-5	Dimefuron	SOLID	#N/A	mg/kg	mg/kg																						
3424-82-6	o,p-DDE	SOLID	#N/A	mg/kg	ug/kg																						
35367-38-5	Diflufenzuron	SOLID	#N/A	mg/kg	mg/kg																						
698836	Benazolin	SOLID	#N/A	mg/kg	mg/kg																						
38260-54-7	Etrimpfos	SOLID	#N/A	mg/kg	ug/kg																						
40483-25-2	Diclofop	SOLID	#N/A	mg/kg	mg/kg																						
40487-42-1	Pendimethalin	SOLID	#N/A	mg/kg	ug/kg																						
43121-43-3	Triadimefon	SOLID	#N/A	mg/kg	ug/kg																						
465-73-6	Isodrin	SOLID	#N/A	mg/kg	ug/kg																						
470-90-6	Chlorfenvinphos	SOLID	#N/A	mg/kg	ug/kg																						
50-29-3	p,p-DDT SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																						
50-31-7	2,3,6-TBA	SOLID	#N/A	mg/kg	mg/kg																						
5103-71-9	cis-Chlordane SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																						
5103-74-2	trans-Chlordane SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																						
51630-58-1	Fenvalerate SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																						
52315-07-8	Cypermethrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																						
52645-53-1	Permethrin SUBCON RPS MH Pyrethroids	SOLID	#N/A	mg/kg	mg/kg																						
52756-22-6	Fiamprop-isopropyl	SOLID	#N/A	mg/kg	mg/kg																						
52918-63-5	Deltamethrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																						
53-19-0	o,p-TDE (DDD)	SOLID	#N/A	mg/kg	ug/kg																						
55335-06-3	Triclopyr	SOLID	#N/A	mg/kg	mg/kg																						
55-38-9	Fenthion	SOLID	#N/A	mg/kg	ug/kg																						
563-12-2	Ethion	SOLID	#N/A	mg/kg	ug/kg																						
56-38-2	Parathion (Ethyl Parathion)	SOLID	#N/A	mg/kg	ug/kg																						
58667-63-3	Fiamprop	SOLID	#N/A	mg/kg	mg/kg																						

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Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	AEC17-H24-TP107	AEC17-H24-TP107	AEC17-H24-WS101	AEC17-H24-WS102	AEC17-H24-WS102	AEC17-H24-WS103	AEC17-H24-WS104	AEC17-H24-WS105	ARP16-CP-BH01	ARP16-CP-BH01	ARP16-CP-BH01	ARP16-CP-BH01	ARP16-CP-BH02	ARP16-CP-BH02	ARP16-CP-BH02	ARP16-CP-BH04	ARP16-CP-BH04	ARP16-CP-BH04	ARP16-CP-BH04	ARP16-CP-BH06
						3.00	4.00	3.00	1.50	4.50	2.50	5.00	4.00	0.30	0.70	1.20	3.50	0.20	1.30	2.30	0.10	0.30	0.65	3.15	0.10
Sample Top	Lookup soil	Sample Ref	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
58-89-9	gamma-Hexachlorocyclohexane (HCH / Lindane)	SOLID	#N/A	mg/kg	ug/kg																				
5915-41-3	Terbutylazine SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																				
60-51-5	Dimethoate	SOLID	#N/A	mg/kg	ug/kg																				
60-57-1	Dieldrin SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																				
61949-76-6	Permethrin I (cis) SUBCON Alcontrol OCP	SOLID	#N/A	mg/kg	ug/kg																				
61949-77-7	Permethrin II (trans) SUBCON Alcontrol OCP	SOLID	#N/A	mg/kg	ug/kg																				
62-73-7	Dichlorvos	SOLID	#N/A	mg/kg	ug/kg																				
639-58-7	Triphenyltin SUBCON I2	SOLID	#N/A	mg/kg	ug/kg																				
66063-05-6	Pencycuron	SOLID	#N/A	mg/kg	mg/kg																				
68085-85-8	Cyhalothrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																				
683-18-1	Dibutyltin Subcon I2	SOLID	#N/A	mg/kg	ug/kg																				
68359-37-5	Cyfluthrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																				
72-20-8	Endrin SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																				
72-54-8	p,p-TDE (DDD)	SOLID	#N/A	mg/kg	ug/kg																				
72-55-9	p,p-DDE	SOLID	#N/A	mg/kg	ug/kg																				
7287-19-6	Prometryn SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																				
76-44-8	Heptachlor SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																				
786-19-6	Carbophenothion	SOLID	#N/A	mg/kg	ug/kg																				
789-02-6	o,p-DDT SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																				
81406-37-3	Fluroxypyr	SOLID	#N/A	mg/kg	mg/kg																				
82-68-8	Quintozene; (PCNB)	SOLID	#N/A	mg/kg	ug/kg																				
834-12-8	Ametryn SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																				
86-50-0	Azinphos-methyl	SOLID	#N/A	mg/kg	ug/kg																				
886-50-0	Terbutryn SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																				
93-65-2	MCCPP; (Mecoprop)	SOLID	#N/A	mg/kg	mg/kg																				
93-72-1	2,4,5-TP; (Fenoprop); (Silvex)	SOLID	#N/A	mg/kg	mg/kg																				
93-76-5	2,4,5-T	SOLID	#N/A	mg/kg	mg/kg																				
94-74-6	MCPA	SOLID	#N/A	mg/kg	mg/kg																				
94-75-7	2,4-D	SOLID	#N/A	mg/kg	mg/kg																				
94-81-5	MCPB	SOLID	#N/A	mg/kg	mg/kg																				
94-82-6	2,4-DB	SOLID	#N/A	mg/kg	mg/kg																				
959-98-8	Endosulphan I	SOLID	#N/A	mg/kg	ug/kg																				
P1362	TPH Aromatic >C35-C44	SOLID	657.18	mg/kg	mg/kg																				
P1415	TPH Aliphatic >C35-C44	SOLID	6927070.30	mg/kg	mg/kg																				
120-12-7	Anthracene	SOLID	0.16	mg/kg	ug/kg																				
129-00-0	Pyrene	SOLID	1.88	mg/kg	ug/kg																				
191-24-2	Benzo(g,h,i)perylene	SOLID	2.42	mg/kg	ug/kg																				
193-39-5	Indeno(1,2,3-cd)pyrene	SOLID	0.51	mg/kg	ug/kg																				
205-99-2	Benzo(b)fluoranthene	SOLID	0.61	mg/kg	ug/kg																				
206-44-0	Fluoranthene	SOLID	0.01	mg/kg	ug/kg																				
207-08-9	Benzo(k)fluoranthene	SOLID	0.86	mg/kg	ug/kg																				
208-96-8	Acenaphthylene	SOLID	1.01	mg/kg	ug/kg																				
218-01-9	Chrysene	SOLID	6.38	mg/kg	ug/kg																				
50-32-8	Benzo(a)pyrene	SOLID	0.07	mg/kg	ug/kg																				
53-70-3	Dibenzo(a,h)anthracene	SOLID	10.80	mg/kg	ug/kg																				
56-55-3	Benzo(a)anthracene	SOLID	4.50	mg/kg	ug/kg																				
83-32-9	Acenaphthene	SOLID	965.39	mg/kg	ug/kg																				
85-01-8	Phenanthrene	SOLID	3.35	mg/kg	ug/kg																				
86-73-7	Fluorene	SOLID	1.76	mg/kg	ug/kg																				
91-20-3	Napthalene	SOLID	0.08	mg/kg	ug/kg																				
302-04-5	Thiocyanate	SOLID	62.96	mg/kg	mg/kg																				
P1879	Xylenols	SOLID - INITIAL	2.39	mg/kg	mg/kg																				
P2098	Cresols	SOLID - INITIAL	0.54	mg/kg	mg/kg																				
12001-28-4	Asbestos: Crocidolite	SOLID - INITIAL	#N/A	mg/kg	No units																				
12001-29-5	Asbestos: Chrysotile	SOLID - INITIAL	#N/A	mg/kg	No units																				
12172-67-7	Asbestos: Actinolite	SOLID - INITIAL	#N/A	mg/kg	No units																				
12172-73-5	Asbestos: Amosite	SOLID - INITIAL	#N/A	mg/kg	No units																				
14567-73-8	Asbestos: Tremolite	SOLID - INITIAL	#N/A	mg/kg	No units																				
17068-78-9	Asbestos: Anthophyllite	SOLID - INITIAL	#N/A	mg/kg	No units																				
1002-53-5	Dibutyl Tin	SOLID - INITIAL	0.00	mg/kg	mg/kg																				
1461-22-9	Tributyltin	SOLID - INITIAL	0.00	mg/kg	mg/kg																				
1461-25-2	Tetrabutyl Tin	SOLID - INITIAL	0.00	mg/kg	mg/kg																				
1634-04-4	Methyl tert-butyl ether (MTBE)	SOLID - INITIAL	#N/A	mg/kg	ug/kg																				
1746-01-6	2,3,7,8-Tetrachlorodibenzo-p-dioxin	SOLID - INITIAL	#N/A	mg/kg	ng/g																				
181274-15-7	Propoxycarbazono-sodium	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-P-Dioxin	SOLID - INITIAL	94064.99	mg/kg	ng/g																				
298-02-2	Phorate	SOLID - INITIAL	#N/A	mg/kg	ug/kg																				

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Hole Ref	AEC17-H24-TP107	AEC17-H24-TP107	AEC17-H24-WS101	AEC17-H24-WS102	AEC17-H24-WS102	AEC17-H24-WS103	AEC17-H24-WS104	AEC17-H24-WS105	ARP16-CP-BH01	ARP16-CP-BH01	ARP16-CP-BH01	ARP16-CP-BH01	ARP16-CP-BH02	ARP16-CP-BH02	ARP16-CP-BH02	ARP16-CP-BH04	ARP16-CP-BH04	ARP16-CP-BH04	ARP16-CP-BH04	ARP16-CP-BH04	ARP16-CP-BH06
Sample Top	3.00	4.00	3.00	1.50	4.50	2.50	5.00	4.00	0.30	0.70	1.20	3.50	0.20	1.30	2.30	0.10	0.30	0.65	3.15	0.10	
Lookup soil	CWF	CWF	GTA	GTA	CHK	CWF	CWF	CWF	MG	MG	MG	CWF	MG	MG	CWF	MG	MG	MG	CWF	MG	
Sample Ref									1	2	3	5	1	4	5	1	2	3	6	1	

Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	
31508-00-6	PCB-118 2,3',4,4',5 - Pentachlorobiphenyl	SOLID - INITIAL	694.02	mg/kg	ng/g																	
32598-13-3	PCB 77	SOLID - INITIAL	6185.41	mg/kg	ng/g																	
32598-14-4	PCB 105	SOLID - INITIAL	8940.63	mg/kg	ng/g																	
3268-87-9	Octachlorodibenzo-p-dioxin	SOLID - INITIAL	91923.81	mg/kg	ng/g																	
32774-16-6	PCB 169	SOLID - INITIAL	37270.75	mg/kg	ng/g																	
3380-34-5	Triclosan	SOLID - INITIAL	0.33	mg/kg	mg/kg																	
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-P-Dioxin	SOLID - INITIAL	91923.81	mg/kg	ng/g																	
38380-08-4	PCB-156 2,3,3,4,4,5 - Hexachlorobiphenyl	SOLID - INITIAL	3172.26	mg/kg	ng/g																	
39001-02-0	Octachlorodibenzofuran	SOLID - INITIAL	46180.43	mg/kg	ng/g																	
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-P-Dioxin	SOLID - INITIAL	36595.53	mg/kg	ng/g																	
39635-31-9	PCB 189	SOLID - INITIAL	270002.64	mg/kg	ng/g																	
40321-76-4	1,2,3,7,8-Pentachlorodibenzo-P-Dioxin	SOLID - INITIAL	#N/A	mg/kg	ng/g																	
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	SOLID - INITIAL	393.06	mg/kg	ng/g																	
52645-53-1	Permethrin	SOLID - INITIAL	#N/A	mg/kg	ug/kg																	
52663-72-6	PCB 167	SOLID - INITIAL	45853.03	mg/kg	ng/g																	
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	SOLID - INITIAL	9648.46	mg/kg	ng/g																	
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	SOLID - INITIAL	964.85	mg/kg	ng/g																	
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	SOLID - INITIAL	715.25	mg/kg	ng/g																	
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	SOLID - INITIAL	715.25	mg/kg	ng/g																	
57465-28-8	PCB 126	SOLID - INITIAL	8940.63	mg/kg	ng/g																	
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-P-Dioxin	SOLID - INITIAL	91923.81	mg/kg	ng/g																	
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofura	SOLID - INITIAL	715.25	mg/kg	ng/g																	
62476-59-9	Acifluorfen	SOLID - INITIAL	#N/A	mg/kg	mg/kg																	
65510-44-3	PCB 123	SOLID - INITIAL	8940.63	mg/kg	ng/g																	
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	SOLID - INITIAL	715.25	mg/kg	ng/g																	
69782-90-7	PCB 157	SOLID - INITIAL	45853.03	mg/kg	ng/g																	
70362-50-4	PCB 81	SOLID - INITIAL	8940.63	mg/kg	ng/g																	
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	SOLID - INITIAL	715.25	mg/kg	ng/g																	
7085-19-0	mecoprop	SOLID - INITIAL	#N/A	mg/kg	mg/kg																	
72-43-5	Methoxychlor	SOLID - INITIAL	#N/A	mg/kg	ug/kg																	
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	SOLID - INITIAL	#N/A	mg/kg	ng/g																	
74472-37-0	PCB 114	SOLID - INITIAL	8940.63	mg/kg	ng/g																	
88-85-7	Dinoseb	SOLID - INITIAL	#N/A	mg/kg	mg/kg																	
892-20-6	Triphenyltin	SOLID - INITIAL	#N/A	mg/kg	mg/kg																	
P1330	BTEX	SOLID - INITIAL	0.00	mg/kg	ug/kg																	
P1354	TPH Aromatic >C6-C7	SOLID - INITIAL	0.05	mg/kg	ug/kg																	
P1355	TPH Aromatics > C7-C8	SOLID - INITIAL	#N/A	mg/kg	ug/kg																	
P1356	Aromatics >C8-10	SOLID - INITIAL	#N/A	mg/kg	ug/kg																	
P1357	Aromatics >C10-12	SOLID - INITIAL	#N/A	mg/kg	ug/kg																	
P1358	Aromatics >C12-16	SOLID - INITIAL	#N/A	mg/kg	ug/kg																	
P1359	Aromatics >C16-21	SOLID - INITIAL	#N/A	mg/kg	ug/kg																	
P1360	Aromatics >C21-35	SOLID - INITIAL	#N/A	mg/kg	ug/kg																	
P1362	Aromatics >C35-44	SOLID - INITIAL	#N/A	mg/kg	ug/kg																	
P1407	Aliphatics >C5-6	SOLID - INITIAL	#N/A	mg/kg	ug/kg																	
P1408	Aliphatics >C6-8	SOLID - INITIAL	#N/A	mg/kg	ug/kg																	
P1409	Aliphatics >C8-10	SOLID - INITIAL	#N/A	mg/kg	ug/kg																	
P1410	Aliphatics >C10-12	SOLID - INITIAL	#N/A	mg/kg	ug/kg																	
P1411	Aliphatics >C12-16	SOLID - INITIAL	#N/A	mg/kg	ug/kg																	
P1412	Aliphatics >C16-21	SOLID - INITIAL	#N/A	mg/kg	ug/kg																	
P1413	Aliphatics >C21-35	SOLID - INITIAL	#N/A	mg/kg	ug/kg																	
P1415	Aliphatics >C35-44	SOLID - INITIAL	#N/A	mg/kg	ug/kg																	
15541-45-4	Bromate	SOLID - INITIAL	#N/A	mg/kg	mg/kg																	
16065-83-1	Trivalent Chromium	SOLID - INITIAL	#N/A	mg/kg	mg/kg																	
16887-00-6	Chloride	SOLID - INITIAL	268.18	mg/kg	mg/kg																	
16984-48-8	Fluoride	SOLID - INITIAL	0.41	mg/kg	mg/kg																	
18496-25-8	Sulphide	SOLID - INITIAL	#VALUE!	mg/kg	mg/kg																	
24959-67-9	Bromide	SOLID - INITIAL	#VALUE!	mg/kg	mg/kg																	
7439-89-6	Iron	SOLID - INITIAL	44.05	mg/kg	mg/kg																	
7439-95-4	Magnesium	SOLID - INITIAL	0.00	mg/kg	mg/kg																	
7439-98-7	Molybdenum	SOLID - INITIAL	0.10	mg/kg	mg/kg																	
2023695	Potassium	SOLID - INITIAL	0.00	mg/kg	mg/kg																	
7440-23-5	Sodium	SOLID - INITIAL	263.64	mg/kg	mg/kg																	
7440-70-2	Calcium	SOLID - INITIAL	0.00	mg/kg	mg/kg																	
P1238	Ammoniacal Nitrogen as N	SOLID - INITIAL	0.11	mg/kg	mg/kg																	
P1286	Manganese	SOLID - INITIAL	2.51	mg/kg	mg/kg																	
100-01-6	4-Nitroaniline	SOLID - INITIAL	0.00	mg/kg	ug/kg																	
101-55-3	4-Bromophenyl Phenyl Ether	SOLID - INITIAL	#N/A	mg/kg	ug/kg																	

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Hole Ref	AEC17-H24-TP107	AEC17-H24-TP107	AEC17-H24-WS101	AEC17-H24-WS102	AEC17-H24-WS102	AEC17-H24-WS103	AEC17-H24-WS104	AEC17-H24-WS105	ARP16-CP-BH01	ARP16-CP-BH01	ARP16-CP-BH01	ARP16-CP-BH01	ARP16-CP-BH02	ARP16-CP-BH02	ARP16-CP-BH02	ARP16-CP-BH04	ARP16-CP-BH04	ARP16-CP-BH04	ARP16-CP-BH04	ARP16-CP-BH04	ARP16-CP-BH06
Sample Top	3.00	4.00	3.00	1.50	4.50	2.50	5.00	4.00	0.30	0.70	1.20	3.50	0.20	1.30	2.30	0.10	0.30	0.65	3.15	0.10	
Lookup soil	CWF	CWF	GTA	GTA	CHK	CWF	CWF	CWF	MG	MG	MG	CWF	MG	MG	CWF	MG	MG	MG	CWF	MG	
Sample Ref									1	2	3	5	1	4	5	1	2	3	6	1	
Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
103-33-3	Azobenzene	SOLID - INITIAL	0.38	mg/kg	ug/kg																
106-47-8	4-Chloroaniline	SOLID - INITIAL	0.01	mg/kg	ug/kg																
700-57-23	4-Chlorophenylphenylether	SOLID - INITIAL	#N/A	mg/kg	ug/kg																
88-74-4	2-Nitroaniline	SOLID - INITIAL	0.01	mg/kg	ug/kg																
99-09-2	3-Nitroaniline	SOLID - INITIAL	#N/A	mg/kg	ug/kg																
994-05-8	Tertiary Amyl Methyl Ether	SOLID - INITIAL	#N/A	mg/kg	ug/kg																
1336-36-6	PCB Total (WAC only)	SOLID	#N/A	mg/kg	mg/kg																
P1330	BTEX (total) WAC	SOLID	#N/A	mg/kg	mg/kg																

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G2 RTM Level 1 - Soils

Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	Hole Ref	ARP16-CP-BH06	ARP16-CP-BH07	ARP16-CP-BH07	ARP16-CP-BH07	ARP16-CP-BH08	ARP16-CP-BH08	ARP16-CP-BH08	ARP16-CP-BH08	ARP16-CP-BH08	ARP16-CP-BH11	ARP16-CP-BH11	ARP16-CP-BH13	ARP16-CP-BH15	ARP16-CP-BH15	ARP16-CP-BH16	ARP16-CP-BH20	ARP16-CP-BH29	ARP16-CP-BH31	ARP16-CP-BH34	ARP16-CP-BH50	ARP16-CP-BH51
						Sample Ref	0.95	0.20	2.50	6.05	1.00	3.60	5.00	5.60	0.20	3.00	0.10	0.20	1.60	1.20	0.50	0.10	0.20	1.60	1.20	0.50	0.10
Sample Ref	Lookup soil	3	1	4	8	2	5	7	8	1	3	1	1	3	2	2	1	1	3	2	2	1	1	1	1	1	1
Sample Ref	Lookup soil	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
100-41-4	Ethylbenzene	SOLID - INITIAL	0.53	mg/kg	mg/kg	<0.01		<0.01	<0.01	<0.01				<0.01	<0.01	<0.01				<0.01							
108-88-3	Toluene	SOLID - INITIAL	0.88	mg/kg	mg/kg	<0.01		<0.01	<0.01	<0.01				<0.01	<0.01	<0.01				<0.01							
120-12-7	Anthracene	SOLID - INITIAL	0.16	mg/kg	mg/kg	<0.02	<0.02	0.5	<0.02	0.0	0.1	0.3	<0.02	<0.02	<0.02				<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
129-00-0	Pyrene	SOLID - INITIAL	1.88	mg/kg	mg/kg	<0.07	0.2	2.2	<0.07	0.2	0.4	1.2	<0.07	<0.07	<0.07				<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07
1330-20-7	Xylene	SOLID - INITIAL	0.23	mg/kg	mg/kg																						
191-24-2	Benzo(g,h,i)perylene	SOLID - INITIAL	2.42	mg/kg	mg/kg	<0.05	0.1	0.6	<0.05	0.1	0.2	0.2	<0.05	<0.05	<0.05				<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
193-39-5	Indeno(1,2,3-cd)pyrene	SOLID - INITIAL	0.51	mg/kg	mg/kg	<0.03	0.2	0.7	<0.03	0.1	0.2	0.3	<0.03	<0.03	<0.03				<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.1	<0.03
205-99-2	Benzo(b)fluoranthene	SOLID - INITIAL	0.61	mg/kg	mg/kg	<0.05	0.2	1.1	<0.05	0.2	0.3	0.6	<0.05	<0.05	<0.05				<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.1	<0.05
206-44-0	Fluoranthene	SOLID - INITIAL	0.01	mg/kg	mg/kg	<0.08	0.2	2.5	<0.08	0.2	0.5	1.4	<0.08	<0.08	<0.08				<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08
207-08-9	Benzo(k)fluoranthene	SOLID - INITIAL	0.86	mg/kg	mg/kg	<0.07	0.1	0.4	<0.07	<0.07	0.1	0.2	<0.07	<0.07	<0.07				<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07
208-96-8	Acenaphthylene	SOLID - INITIAL	1.01	mg/kg	mg/kg	<0.01	<0.01	0.0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
218-01-9	Chrysene	SOLID - INITIAL	6.38	mg/kg	mg/kg	<0.06	0.2	1.2	<0.06	0.1	0.3	0.6	<0.06	<0.06	<0.06				<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	0.1	<0.06
50-32-8	Benzo(a)pyrene	SOLID - INITIAL	0.07	mg/kg	mg/kg	<0.04	0.2	1.0	<0.04	0.1	0.3	0.4	<0.04	<0.04	<0.04				<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.1	<0.04
53-70-3	Dibenzo(a,h)anthracene	SOLID - INITIAL	10.80	mg/kg	mg/kg	<0.04	<0.04	0.1	<0.04	<0.04	<0.04	0.1	<0.04	<0.04	<0.04				<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
56-55-3	Benzo(a)anthracene	SOLID - INITIAL	4.50	mg/kg	mg/kg	<0.04	0.1	1.1	<0.04	0.1	0.2	0.6	<0.04	<0.04	<0.04				<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.0	<0.04
57-12-5	Cyanide	SOLID - INITIAL	0.26	mg/kg	mg/kg																						
71-43-2	Benzene	SOLID - INITIAL	0.0043	mg/kg	mg/kg	<0.01		<0.01	<0.01	<0.01				<0.01	<0.01	<0.01				<0.01							
7439-92-1	Lead	SOLID - INITIAL	10.00	mg/kg	mg/kg	25.0	26.0	46.0	19.0	44.0	219.0	20.0	17.0	36.0	19.0	32.0	18.0	21.0	17.0	18.0	33.0	15.0	32.0	40.0	32.0	40.0	15.0
7439-97-6	Mercury	SOLID - INITIAL	0.50	mg/kg	mg/kg	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17
7440-02-0	Nickel	SOLID - INITIAL	10.01	mg/kg	mg/kg	43.0	21.0	16.0	16.0	17.0	19.0	20.0	23.0	21.0	8.0	11.0	21.0	39.0	15.0	22.0	29.0	29.0	29.0	26.0	26.0	20.0	20.0
7440-36-0	Antimony	SOLID - INITIAL	1.26	mg/kg	mg/kg																						
7440-38-2	Arsenic	SOLID - INITIAL	5.00	mg/kg	mg/kg	8.0	10.0	8.0	6.0	5.0	7.0	8.0	10.0	6.0	6.0	7.0	10.0	7.0	5.0	4.0	5.0	9.0	8.0	8.0	8.0	5.0	
7440-41-7	Beryllium	SOLID - INITIAL	5.04	mg/kg	mg/kg	2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
7440-42-8	Boron	SOLID - INITIAL	8.69	mg/kg	mg/kg	1.7	1.0	1.5	<1.0	<1.0	<1.0	1.2	<1.0				<1.0			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.3	<1.0
7440-43-9	Cadmium	SOLID - INITIAL	0.50	mg/kg	mg/kg	2.0	1.6	2.9	1.2	1.0	1.4	1.4	2.1	1.5	1.1	0.5	1.8	2.4	<0.5	<0.5	0.9	0.8	2.1	<0.5	1.4	<0.5	1.4
7440-47-3	Chromium	SOLID - INITIAL	315.49	mg/kg	mg/kg	37.0	31.0	18.0	29.0	20.0	30.0	24.0	48.0	26.0	25.0	20.0	32.0	42.0	32.0	25.0	20.0	29.0	33.0	33.0	27.0	27.0	
7440-50-8	Copper	SOLID - INITIAL	1002.92	mg/kg	mg/kg	16.0	16.0	20.0	6.0	18.0	17.0	15.0	11.0	15.0	3.0	14.0	9.0	17.0	9.0	16.0	20.0	14.0	10.0	25.0	7.0	7.0	
7440-62-2	Vanadium	SOLID - INITIAL	1.01	mg/kg	mg/kg	54.0	45.0	32.0	37.0	34.0	43.0	41.0	62.0				26.0			36.0	43.0	38.0	39.0	43.0	43.0	30.0	
7440-66-6	Zinc	SOLID - INITIAL	2507.30	mg/kg	mg/kg	86.0	58.0	68.0	34.0	74.0	65.0	54.0	49.0	63.0	18.0	44.0	59.0	88.0	54.0	51.0	59.0	53.0	63.0	85.0	50.0	50.0	
7782-49-2	Selenium	SOLID - INITIAL	0.50	mg/kg	mg/kg	1.0	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.0	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
83-32-9	Acenaphthene	SOLID - INITIAL	965.39	mg/kg	mg/kg	<0.01	<0.01	0.5	<0.01	<0.01	0.0	0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
85-01-8	Phenanthrene	SOLID - INITIAL	3.35	mg/kg	mg/kg	<0.03	<0.03	1.8	<0.03	0.1	0.3	1.0	<0.03	<0.03	<0.03				<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
86-73-7	Fluorene	SOLID - INITIAL	1.76	mg/kg	mg/kg	<0.01	<0.01	0.4	<0.01	<0.01	0.0	0.2	<0.01	<0.01	<0.01				<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
91-20-3	Napthalene	SOLID - INITIAL	0.08	mg/kg	mg/kg	<0.03	<0.03	0.2	<0.03	<0.03	<0.03	0.0	<0.03	<0.03	<0.03				<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
P1186	Phenol	SOLID - INITIAL	0.04	mg/kg	mg/kg																						
P1310	Pah,Total	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
P1334	pH	SOLID - INITIAL	#N/A	mg/kg	pH Units																						
P1355	TPH Aromatic >C7-C8	SOLID - INITIAL	10.42	mg/kg	mg/kg	<0.01		<0.01	<0.01	<0.01				<0.01	<0.01	<0.01				<0.01							
P1356	TPH Aromatic >C8-C10	SOLID - INITIAL	219.16	mg/kg	mg/kg																						
P1357	TPH Aromatic >C10-C12	SOLID - INITIAL	16.54	mg/kg	mg/kg	<0.1		<0.1	<0.1	<0.1				<0.1	<0.1	<0.1				<0.1							
P1358	TPH Aromatic >C12-C16	SOLID - INITIAL	32.96	mg/kg	mg/kg	<0.1		<0.1	<0.1	<0.1				<0.1	<0.1	<0.1				<0.1							
P1359	TPH Aromatic >C16-C21	SOLID - INITIAL	82.76	mg/kg	mg/kg	<0.1		3.6	<0.1	<0.1				<0.1	<0.1	<0.1				<0.1							
P1360	TPH Aromatic >C21-C35	SOLID - INITIAL	657.18	mg/kg	mg/kg	<0.1		13.9	<0.1	<0.1				<0.1	<0.1	<0.1				<0.1							
P1407	TPH Aliphatic >C5-6	SOLID - INITIAL	654.68	mg/kg	mg/kg	<0.01		<0.01	<0.01	<0.01				<0.01	<0.01	<0.01				<0.01							
P1408	TPH Aliphatic >C6-8	SOLID - INITIAL	2946.18	mg/kg	mg/kg	<0.01		<0.01	<0.01	<0.01				<0.01	<0.01	<0.01				<0.01							
P1409	TPH Aliphatic >C8-10	SOLID - INITIAL	558.25	mg/kg	mg/kg	<0.01		<0.01	<0.01	<0.01				<0.01	<0.01	<0.01				<0.01							
P1410	TPH Aliphatic >C10-12	SOLID - INITIAL	5510.38	mg/kg	mg/kg	<0.1		<0.1	<0.1	<0.1				<0.1	<0.1	<0.1				<0.1							
P1411	TPH Aliphatic >C12-16	SOLID - INITIAL	87214.59	mg/kg	mg/kg	<0.1		<0.1	<0.1	<0.1				<0.1	<0.1	<0.1				<0.1							
P1412	TPH Aliphatic >C16-21	SOLID - INITIAL	6927070.30	mg/kg	mg/kg	<0.1		1.0	<0.1	<0.1				<0.1	<0.1	<0.1				<0.1							
P1413	TPH Aliphatic >C21-35	SOLID - INITIAL	692																								

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Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	ARP16-CP-BH06	ARP16-CP-BH07	ARP16-CP-BH07	ARP16-CP-BH07	ARP16-CP-BH08	ARP16-CP-BH08	ARP16-CP-BH08	ARP16-CP-BH08	ARP16-CP-BH08	ARP16-CP-BH11	ARP16-CP-BH11	ARP16-CP-BH13	ARP16-CP-BH15	ARP16-CP-BH15	ARP16-CP-BH16	ARP16-CP-BH20	ARP16-CP-BH29	ARP16-CP-BH31	ARP16-CP-BH34	ARP16-CP-BH50	ARP16-CP-BH51	
						0.95	0.20	2.50	6.05	1.00	3.60	5.00	5.60	0.20	3.00	0.10	0.20	1.60	1.20	0.50	0.10	0.20	0.40	0.00	0.20		
Sample Top	Lookup soil	Sample Ref	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	
108-67-8	1,3,5-Trimethylbenzene	SOLID - INITIAL	0.15	mg/kg	mg/kg																						
108-86-1	Bromobenzene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
108-90-7	Chlorobenzene	SOLID - INITIAL	4.46	mg/kg	mg/kg																						
108-95-2	Phenol	SOLID - INITIAL	0.04	mg/kg	mg/kg																						
111-91-1	Bis(2-chloroethoxy)methane	SOLID - INITIAL	0.01	mg/kg	mg/kg																						
117-81-7	Bis(2-ethylhexyl)phthalate	SOLID - INITIAL	18472.17	mg/kg	mg/kg																						
117-84-0	Di-N-Octyl Phthalate	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
118-74-1	Hexachlorobenzene (HCB)	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
120-82-1	1,2,4-Trichlorobenzene	SOLID - INITIAL	1.81	mg/kg	mg/kg																						
120-83-2	2,4-Dichlorophenol	SOLID - INITIAL	0.28	mg/kg	mg/kg																						
121-14-2	2,4-Dinitrotoluene	SOLID - INITIAL	0.00	mg/kg	mg/kg																						
122-39-4	Diphenylamine	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
124-48-1	Dibromochloromethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
127-18-4	Tetrachloroethene	SOLID - INITIAL	1.46	mg/kg	mg/kg																						
131-11-3	Dimethylphthalate	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
132-64-9	Dibenzofuran	SOLID - INITIAL	0.49	mg/kg	mg/kg																						
135-98-8	Sec-Butylbenzene	SOLID - INITIAL	1.39	mg/kg	mg/kg																						
142-28-9	1,3-Dichloropropane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
156-59-2	cis-1,2-Dichloroethene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
156-60-5	trans-1,2-Dichloroethene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
1634-04-4	Methyl tert-butyl ether (MTBE)	SOLID - INITIAL	#N/A	mg/kg	mg/kg	<0.01		<0.01	<0.01	<0.01																	
39638-32-9	Bis(2-chloroisopropyl)ether	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
528-29-0	O-Dinitrobenzene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
534-52-1	2-Methyl-4,6-Dinitrophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
541-73-1	1,3-Dichlorobenzene	SOLID - INITIAL	145.60	mg/kg	mg/kg																						
56-23-5	Tetrachloromethane (Carbon Tetra Chloride)	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
563-58-6	1,1-Dichloropropene	SOLID - INITIAL	0.41	mg/kg	mg/kg																						
58-90-2	2,3,4,6-Tetrachlorophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
594-20-7	2,2-Dichloropropane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
59-50-7	4-Chloro-3-Methylphenol	SOLID - INITIAL	2.93	mg/kg	mg/kg																						
606-20-2	2,6-Dinitrotoluene	SOLID - INITIAL	1.48	mg/kg	mg/kg																						
62-53-3	Aniline	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
630-20-6	1,1,1,2-Tetrachloroethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
67-66-3	Chloroform	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
700-57-23	4-Chlorophenyl Phenyl Ether	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
71-55-6	1,1,1-Trichloroethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
74-95-3	Dibromomethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
74-97-5	Bromochloromethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
75-01-4	Chloroethene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
75-25-2	Tribromomethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
75-27-4	Bromodichloromethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
75-34-3	1,1-Dichloroethane	SOLID - INITIAL	0.01	mg/kg	mg/kg																						
75-35-4	1,1-Dichloroethene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
77-47-4	Hexachlorocyclopentadiene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
78-87-5	1,2-Dichloropropane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
79-00-5	1,1,2-Trichloroethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
79-01-6	Trichloroethene	SOLID - INITIAL	0.09	mg/kg	mg/kg																						
84-66-2	Diethylphthalate	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
84-74-2	Di-N-Butyl Phthalate	SOLID - INITIAL	0.52	mg/kg	mg/kg																						
85-68-7	Butylbenzylphthalate	SOLID - INITIAL	23.36	mg/kg	mg/kg																						
86-74-8	Carbazole	SOLID - INITIAL	0.01	mg/kg	mg/kg																						
87-61-6	1,2,3 Trichlorobenzene	SOLID - INITIAL	0.26	mg/kg	mg/kg																						
87-68-3	Hexachlorobutadiene (HCBd)	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
87-86-5	Pentachlorophenol (PCP)	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
88-06-2	2,4,6-Trichlorophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
88-74-4	2-Nitroaniline	SOLID - INITIAL	0.01	mg/kg	mg/kg																						
91-57-6	2-Methylnaphthalene	SOLID - INITIAL	0.84	mg/kg	mg/kg																						
91-58-7	2-Chloronaphthalene	SOLID - INITIAL	0.92	mg/kg	mg/kg																						
935-95-5	2,3,5,6-Tetrachlorophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
95-47-6	Xylene	SOLID - INITIAL	0.23	mg/kg	mg/kg	<0.01		<0.01	<0.01	<0.01																	
95-48-7	2-Methylphenol	SOLID - INITIAL	0.54	mg/kg	mg/kg																						
95-49-8	2-Chlorotoluene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
95-50-1	1,2-Dichlorobenzene	SOLID - INITIAL	40.42	mg/kg	mg/kg																						
95-57-8	2-Chlorophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
95-63-6	1,2,4-Trimethylbenzene	SOLID - INITIAL	0.25	mg/kg	mg/kg																						
95-95-4	2,4,5-Trichlorophenol	SOLID - INITIAL	60.93	mg/kg	mg/kg																						
96-12-8	1,2-Dibromo-3-Chloropropane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
96-18-4	1,2,3-Trichloropropane	SOLID - INITIAL	0.44	mg/kg	mg/kg																						

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Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	ARP16-CP-BH06	ARP16-CP-BH07	ARP16-CP-BH07	ARP16-CP-BH07	ARP16-CP-BH08	ARP16-CP-BH08	ARP16-CP-BH08	ARP16-CP-BH08	ARP16-CP-BH08	ARP16-CP-BH11	ARP16-CP-BH11	ARP16-CP-BH13	ARP16-CP-BH15	ARP16-CP-BH15	ARP16-CP-BH16	ARP16-CP-BH20	ARP16-CP-BH29	ARP16-CP-BH31	ARP16-CP-BH34	ARP16-CP-BH50	ARP16-CP-BH51	
						0.95	0.20	2.50	6.05	1.00	3.60	5.00	5.60	0.20	3.00	0.10	0.20	1.60	1.20	0.50	0.10	0.20	0.40	0.00	0.20		
Sample Top	Lookup soil	Sample Ref	3	1	4	8	2	5	7	8	1	3	1	1	3	2	2	1	1	1	1	1	1	1	1	1	
Sample Ref	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	
98-06-6	Tert-Butylbenzene	SOLID - INITIAL	0.75	mg/kg	mg/kg																						
98-82-8	Isopropylbenzene	SOLID - INITIAL	0.27	mg/kg	mg/kg																						
99-09-2	3-Nitroaniline	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
99-65-0	M-Dinitrobenzene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
99-87-6	4-Isopropyltoluene	SOLID - INITIAL	54.06	mg/kg	mg/kg																						
P1374	xylene	SOLID - INITIAL	0.23	mg/kg	mg/kg	<0.01		<0.01	<0.01	<0.01			<0.01	<0.01	<0.01					<0.01							
18540-29-9	chromium hexavalent	SOLID - INITIAL	0.02	mg/kg	mg/kg																						
P1095	Cyanide Free	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
P1239	Complex Cyanide	SOLID - INITIAL	0.26	mg/kg	mg/kg																						
31508-00-6	PCB-118 2,3,4,4,5 - Pentachlorobiphenyl	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
32598-13-3	PCB 77	SOLID - INITIAL	6185.41	mg/kg	mg/kg																						
32598-14-4	PCB 105	SOLID - INITIAL	8940.63	mg/kg	mg/kg																						
32774-16-6	PCB 169	SOLID - INITIAL	37270.75	mg/kg	mg/kg																						
38380-08-4	PCB-156 2,3,3,4,4,5 - Hexachlorobiphenyl	SOLID - INITIAL	3172.26	mg/kg	mg/kg																						
39635-31-9	PCB 189	SOLID - INITIAL	270002.64	mg/kg	mg/kg																						
52663-72-6	PCB 167	SOLID - INITIAL	45853.03	mg/kg	mg/kg																						
57465-28-8	PCB 126	SOLID - INITIAL	8940.63	mg/kg	mg/kg																						
65510-44-3	PCB 123	SOLID - INITIAL	8940.63	mg/kg	mg/kg																						
69782-90-7	PCB 157	SOLID - INITIAL	45853.03	mg/kg	mg/kg																						
70362-50-4	PCB 81	SOLID - INITIAL	8940.63	mg/kg	mg/kg																						
74472-37-0	PCB 114	SOLID - INITIAL	8940.63	mg/kg	mg/kg																						
100-02-7	4-Nitrophenol	SOLID	0.04	mg/kg	ug/kg			<100												<100							
100-41-4	Ethylbenzene	SOLID	0.53	mg/kg	ug/kg			4.0												<1							
100-42-5	Styrene	SOLID	1.04	mg/kg	ug/kg			6.0												<1							
10061-01-5	cis 1,3-Dichloropropene	SOLID	#N/A	mg/kg	ug/kg			<1												<1							
10061-02-6	trans 1,3-Dichloropropene	SOLID	#N/A	mg/kg	ug/kg			<1												<1							
103-65-1	Propylbenzene	SOLID	0.28	mg/kg	ug/kg			<1												<1							
104-51-8	n-Butylbenzene	SOLID	1.39	mg/kg	ug/kg			<1												<1							
105-67-9	2,4-Dimethylphenol	SOLID	1.18	mg/kg	ug/kg			<100												<100							
106-43-4	4-Chlorotoluene	SOLID	#N/A	mg/kg	ug/kg			<1												<1							
106-44-5	4-Methylphenol	SOLID	0.53	mg/kg	ug/kg			<100												<100							
106-46-7	1,4-Dichlorobenzene	SOLID	48.01	mg/kg	ug/kg			<1												<1							
106-93-4	1,2-Dibromoethane	SOLID	#N/A	mg/kg	ug/kg			<1												<1							
107-06-2	1,2-Dichloroethane	SOLID	#N/A	mg/kg	ug/kg			<2												<2							
108-67-8	1,3,5-Trimethylbenzene	SOLID	0.15	mg/kg	ug/kg			<1												<1							
108-86-1	Bromobenzene	SOLID	#N/A	mg/kg	ug/kg			<1												<1							
108-88-3	Toluene	SOLID	0.88	mg/kg	ug/kg			<1												<1							
108-90-7	Chlorobenzene	SOLID	4.46	mg/kg	ug/kg			<1												<1							
108-95-2	Phenol	SOLID	0.04	mg/kg	ug/kg			<100												<100							
111-44-4	Bis(2-chloroethyl)ether	SOLID	#N/A	mg/kg	ug/kg			<100												<100							
111-91-1	Bis(2-chloroethoxy)methane	SOLID	0.01	mg/kg	ug/kg			<100												<100							
117-81-7	Bis(2-ethylhexyl)phthalate	SOLID	18472.17	mg/kg	ug/kg			<100												<100							
117-84-0	n-Dioctylphthalate	SOLID	146035.35	mg/kg	ug/kg			276.0												<100							
118-74-1	Hexachlorobenzene	SOLID	0.23	mg/kg	ug/kg			<100												<100							
120-82-1	1,2,4-Trichlorobenzene	SOLID	1.81	mg/kg	ug/kg			<3												<3							
120-83-2	2,4-Dichlorophenol	SOLID	0.28	mg/kg	ug/kg			<100												<100							
121-14-2	2,4-Dinitrotoluene	SOLID	0.00	mg/kg	ug/kg			<100												<100							
124-48-1	Dibromochloromethane	SOLID	#N/A	mg/kg	ug/kg			<3												<3							
127-18-4	Tetrachloroethene	SOLID	1.46	mg/kg	ug/kg			<1												<1							
131-11-3	Dimethyl phthalate	SOLID	#N/A	mg/kg	ug/kg			<100												<100							
132-64-9	Dibenzofuran	SOLID	0.49	mg/kg	ug/kg			315.0												<100							
135-98-8	sec-Butylbenzene	SOLID	1.39	mg/kg	ug/kg			<1												<1							
142-28-9	1,3-Dichloropropane	SOLID	#N/A	mg/kg	ug/kg			<1												<1							
156-59-2	cis 1,2-Dichloroethene	SOLID	0.31	mg/kg	ug/kg			<1												<1							
156-60-5	trans 1,2-Dichloroethene	SOLID	#N/A	mg/kg	ug/kg			<1												<1							
198-55-0	Perylene	SOLID	206.28	mg/kg	ug/kg			401.0												<100							
39638-32-9	Bis(2-chloroisopropyl)ether	SOLID	#N/A	mg/kg	ug/kg			<100												<100							
541-73-1	1,3-Dichlorobenzene	SOLID	145.60	mg/kg	ug/kg			<1												<1							
56-23-5	Carbon Tetrachloride	SOLID	#N/A	mg/kg	ug/kg			<1												<1							
563-58-6	1,1-Dichloropropene	SOLID	0.41	mg/kg	ug/kg			<1												<1							
594-20-7	2,2-Dichloropropane	SOLID	#N/A	mg/kg	ug/kg			<1												<1							
59-50-7	4-Chloro-3-methylphenol	SOLID	2.93	mg/kg	ug/kg			<100												<100							
606-20-2	2,6-Dinitrotoluene	SOLID	1.48	mg/kg	ug/kg			<100												<100							
621-64-7	n-Nitroso-n-dipropylamine	SOLID	#N/A	mg/kg	ug/kg			<100												<100							
630-20-6	1,1,1,2-Tetrachloroethane	SOLID	#N/A	mg/kg	ug/kg			<1												<1							
67-66-3	Chloroform	SOLID	#N/A	mg/kg	ug/kg			<1												<1							
67-72-1	Hexachloroethane	SOLID	3.21	mg/kg	ug/kg			<100												<100							
71-43-2	Benzene	SOLID	0.00	mg/kg	ug/kg			<1												<1							

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Hole Ref	ARP16-CP-BH06	ARP16-CP-BH07	ARP16-CP-BH07	ARP16-CP-BH07	ARP16-CP-BH08	ARP16-CP-BH08	ARP16-CP-BH08	ARP16-CP-BH08	ARP16-CP-BH08	ARP16-CP-BH11	ARP16-CP-BH11	ARP16-CP-BH13	ARP16-CP-BH15	ARP16-CP-BH15	ARP16-CP-BH16	ARP16-CP-BH20	ARP16-CP-BH29	ARP16-CP-BH31	ARP16-CP-BH34	ARP16-CP-BH50	ARP16-CP-BH51
Sample Top	0.95	0.20	2.50	6.05	1.00	3.60	5.00	5.60	0.20	3.00	0.10	0.20	1.60	1.20	0.50	0.10	0.20	0.40	0.00	0.20	
Lookup soil	CWF	MG	MG	CWF	MG	MG	MG	CWF	MG	CWF	TS	CWF	CWF	CWF	CWF	TS	TS	MG	TS	TS	
Sample Ref	3	1	4	8	2	5	7	8	1	3	1	1	3	2	2	1	1	1	1	1	
Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
1610-18-0	Prometon SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																
16118-49-3	Carbetamide	SOLID	#N/A	mg/kg	mg/kg																
1689-83-4	loxynil	SOLID	#N/A	mg/kg	mg/kg																
1689-84-5	Bromoxynil	SOLID	#N/A	mg/kg	mg/kg																
1702-17-6	Clopyralid	SOLID	#N/A	mg/kg	mg/kg																
1746-81-2	Monolinuron	SOLID	#N/A	mg/kg	mg/kg																
18691-97-9	Methabenzthiazuron	SOLID	#N/A	mg/kg	mg/kg																
1897-45-6	Chlorothalonil	SOLID	#N/A	mg/kg	ug/kg																
1912-24-9	Atrazine SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																
1918-00-9	Dicamba	SOLID	#N/A	mg/kg	mg/kg																
6607	Picloram	SOLID	#N/A	mg/kg	mg/kg																
1967-16-4	Chlorbufam	SOLID	#N/A	mg/kg	mg/kg																
1982-47-4	Chloroxuron	SOLID	#N/A	mg/kg	mg/kg																
19937-59-8	Metoxuron	SOLID	#N/A	mg/kg	mg/kg																
2132-70-9	p,p-Methoxychlor	SOLID	#N/A	mg/kg	ug/kg																
2274-67-1	Chlorpyrifos-methyl	SOLID	#N/A	mg/kg	ug/kg																
2303-17-5	Triallate	SOLID	#N/A	mg/kg	ug/kg																
2310-17-0	Phosalone	SOLID	#N/A	mg/kg	ug/kg																
23103-98-2	Pirimicarb	SOLID	#N/A	mg/kg	mg/kg																
24017-47-8	Triazophos	SOLID	#N/A	mg/kg	ug/kg																
25057-89-0	Bentazone	SOLID	#N/A	mg/kg	mg/kg																
2642-71-9	Azinphos-ethyl	SOLID	#N/A	mg/kg	ug/kg																
2921-88-2	Chlorpyrifos	SOLID	#N/A	mg/kg	ug/kg																
29232-93-7	Pirimiphos Methyl	SOLID	#N/A	mg/kg	ug/kg																
297-78-9	Telodrin	SOLID	#N/A	mg/kg	ug/kg																
298-00-0	Methyl Parathion	SOLID	#N/A	mg/kg	ug/kg																
298-01-1	Mevinphos	SOLID	#N/A	mg/kg	ug/kg																
298-04-4	Disulfoton SUBCON OCP Alcontrol	SOLID	#N/A	mg/kg	ug/kg																
29973-13-5	Ethiofencarb	SOLID	#N/A	mg/kg	mg/kg																
30667-99-3	o,p-Methoxychlor	SOLID	#N/A	mg/kg	ug/kg																
309-00-2	Aldrin SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																
31218-83-4	Propetamphos	SOLID	#N/A	mg/kg	ug/kg																
314-40-9	Bromacil	SOLID	#N/A	mg/kg	mg/kg																
319-84-6	alpha-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																
	beta-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																
319-85-7		SOLID	#N/A	mg/kg	ug/kg																
330-54-1	Diuron SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																
330-55-2	Linuron	SOLID	#N/A	mg/kg	mg/kg																
33213-65-9	Endosulphan II	SOLID	#N/A	mg/kg	ug/kg																
333-41-5	Diazinon	SOLID	#N/A	mg/kg	ug/kg																
34123-59-6	Isoproturon	SOLID	#N/A	mg/kg	mg/kg																
34205-21-5	Dimefuron	SOLID	#N/A	mg/kg	mg/kg																
3424-82-6	o,p-DDE	SOLID	#N/A	mg/kg	ug/kg																
35367-38-5	Diflufenzuron	SOLID	#N/A	mg/kg	mg/kg																
698836	Benazolin	SOLID	#N/A	mg/kg	mg/kg																
38260-54-7	Etrimpfos	SOLID	#N/A	mg/kg	ug/kg																
40483-25-2	Diclofop	SOLID	#N/A	mg/kg	mg/kg																
40487-42-1	Pendimethalin	SOLID	#N/A	mg/kg	ug/kg																
43121-43-3	Triadimefon	SOLID	#N/A	mg/kg	ug/kg																
465-73-6	Isodrin	SOLID	#N/A	mg/kg	ug/kg																
470-90-6	Chlorfenvinphos	SOLID	#N/A	mg/kg	ug/kg																
50-29-3	p,p-DDT SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																
50-31-7	2,3,6-TBA	SOLID	#N/A	mg/kg	mg/kg																
5103-71-9	cis-Chlordane SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																
5103-74-2	trans-Chlordane SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																
51630-58-1	Fenvalerate SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																
52315-07-8	Cypermethrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																
52645-53-1	Permethrin SUBCON RPS MH Pyrethroids	SOLID	#N/A	mg/kg	mg/kg																
52756-22-6	Flamprop-isopropyl	SOLID	#N/A	mg/kg	mg/kg																
52918-63-5	Deltamethrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																
53-19-0	o,p-TDE (DDD)	SOLID	#N/A	mg/kg	ug/kg																
55335-06-3	Triclopyr	SOLID	#N/A	mg/kg	mg/kg																
55-38-9	Fenthion	SOLID	#N/A	mg/kg	ug/kg																
563-12-2	Ethion	SOLID	#N/A	mg/kg	ug/kg																
56-38-2	Parathion (Ethyl Parathion)	SOLID	#N/A	mg/kg	ug/kg																
58667-63-3	Fiamprop	SOLID	#N/A	mg/kg	mg/kg																

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G2 RTM Level 1 - Soils

Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	Hole Ref	ARP16-CP-BH06	ARP16-CP-BH07	ARP16-CP-BH07	ARP16-CP-BH07	ARP16-CP-BH08	ARP16-CP-BH08	ARP16-CP-BH08	ARP16-CP-BH08	ARP16-CP-BH11	ARP16-CP-BH11	ARP16-CP-BH13	ARP16-CP-BH15	ARP16-CP-BH15	ARP16-CP-BH16	ARP16-CP-BH20	ARP16-CP-BH29	ARP16-CP-BH31	ARP16-CP-BH34	ARP16-CP-BH50	ARP16-CP-BH51
						Sample Top	0.95	0.20	2.50	6.05	1.00	3.60	5.00	5.60	0.20	3.00	0.10	0.20	1.60	1.20	0.50	0.10	0.20	0.20	0.40	0.00
						Lookup soil	CWF	MG	MG	CWF	MG	MG	MG	CWF	MG	CWF	TS	CWF	CWF	CWF	CWF	TS	TS	MG	TS	TS
						Sample Ref	3	1	4	8	2	5	7	8	1	3	1	1	3	2	2	1	1	1	1	1
							ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
103-33-3	Azobenzene	SOLID - INITIAL	0.38	mg/kg	ug/kg																					
106-47-8	4-Chloroaniline	SOLID - INITIAL	0.01	mg/kg	ug/kg																					
700-57-23	4-Chlorophenylphenylether	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					
88-74-4	2-Nitroaniline	SOLID - INITIAL	0.01	mg/kg	ug/kg																					
99-09-2	3-Nitroaniline	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					
994-05-8	Tertiary Amyl Methyl Ether	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					
1336-36-6	PCB Total (WAC only)	SOLID	#N/A	mg/kg	mg/kg																					
P1330	BTEX (total) WAC	SOLID	#N/A	mg/kg	mg/kg																					

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Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	Hole Ref																					
						ARP16-CP-BH54	ARP16-CP-BH54	ARP16-CP-BH55	ARP16-CP-TP01	ARP16-CP-TP01	ARP16-CP-TP02	ARP16-CP-TP03	ARP16-CP-TP03	ARP16-CP-TP06	ARP16-CP-TP07	ARP16-CP-TP11	ARP16-CP-TP11	ARP16-CP-TP12	ARP16-CP-TP12	ARP16-CP-TP12	ARP16-CP-TP14	ARP16-CP-TP18	ARP16-CP-TP18	ARP16-CP-TP18			
						0.20	9.00	0.10	0.05	2.15	0.10	0.50	2.65	0.10	0.10	0.10	0.40	0.05	1.15	2.25	0.10	0.10	1.05	1.30	2.00		
						TS	CHK	TS	CWF	CWF	TS	MG	MG	TS	TS	TS	CWF	MG	CWF	CWF	TS	MG	MG	MG	MG		
						1	3	1	1	4	1	2	5	1	1	1	2	1	3	4	1	1	2	3	4		
						ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES		
100-41-4	Ethylbenzene	SOLID - INITIAL	0.53	mg/kg	mg/kg				<0.01	<0.01														<0.01	<0.01		
108-88-3	Toluene	SOLID - INITIAL	0.88	mg/kg	mg/kg				<0.01	<0.01														<0.01	<0.01		
120-12-7	Anthracene	SOLID - INITIAL	0.16	mg/kg	mg/kg			<0.02	<0.02	0.0	<0.02	<0.02	0.1	<0.02			<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.1	<0.02	0.2	
129-00-0	Pyrene	SOLID - INITIAL	1.88	mg/kg	mg/kg			<0.07	0.1	0.2	<0.07	<0.07	1.1	<0.07			<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	0.1	0.6	<0.07	3.6	
1330-20-7	Xylene	SOLID - INITIAL	0.23	mg/kg	mg/kg																						
191-24-2	Benzo(g,h,i)perylene	SOLID - INITIAL	2.42	mg/kg	mg/kg			<0.05	<0.05	0.1	<0.05	<0.05	0.5	<0.05			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.2	<0.05	0.7	
193-39-5	Indeno(1,2,3-cd)pyrene	SOLID - INITIAL	0.51	mg/kg	mg/kg			<0.03	<0.03	0.1	<0.03	<0.03	0.5	<0.03			<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.2	<0.03	0.7	
205-99-2	Benzo(b)fluoranthene	SOLID - INITIAL	0.61	mg/kg	mg/kg			<0.05	0.1	0.2	<0.05	<0.05	0.8	<0.05			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.5	<0.05	1.4	
206-44-0	Fluoranthene	SOLID - INITIAL	0.01	mg/kg	mg/kg			<0.08	0.1	0.2	<0.08	<0.08	1.2	<0.08			<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	0.1	0.6	<0.08	2.3	
207-08-9	Benzo(k)fluoranthene	SOLID - INITIAL	0.86	mg/kg	mg/kg			<0.07	<0.07	<0.07	<0.07	<0.07	0.3	<0.07			<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	0.2	<0.07	0.6	
208-96-8	Acenaphthylene	SOLID - INITIAL	1.01	mg/kg	mg/kg			<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01			<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.0	
218-01-9	Chrysenes	SOLID - INITIAL	6.38	mg/kg	mg/kg			<0.06	0.1	0.2	<0.06	<0.06	0.7	<0.06			<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	0.4	<0.06	1.4		
50-32-8	Benzo(a)pyrene	SOLID - INITIAL	0.07	mg/kg	mg/kg			<0.04	0.1	0.1	<0.04	<0.04	0.5	<0.04			<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.4	<0.04	1.1		
53-70-3	Dibenzo(a,h)anthracene	SOLID - INITIAL	10.80	mg/kg	mg/kg			<0.04	<0.04	<0.04	<0.04	<0.04	0.1	<0.04			<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.0	<0.04	0.2		
56-55-3	Benzo(a)anthracene	SOLID - INITIAL	4.50	mg/kg	mg/kg			<0.04	0.1	0.1	<0.04	<0.04	0.4	<0.04			<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.3	<0.04	1.4		
57-12-5	Cyanide	SOLID - INITIAL	0.26	mg/kg	mg/kg																						
71-43-2	Benzene	SOLID - INITIAL	0.0043	mg/kg	mg/kg				<0.01	<0.01														<0.01	<0.01		
7439-92-1	Lead	SOLID - INITIAL	10.00	mg/kg	mg/kg			13.0	4.0	35.0	2.0	27.0	25.0	97.0	38.0	34.0	19.0	6.0	35.0	8.0	11.0	20.0	25.0	14.0	7.0	18.0	
7439-97-6	Mercury	SOLID - INITIAL	0.50	mg/kg	mg/kg			<0.17	0.7	<0.17	<0.17	0.6	0.2	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	
7440-02-0	Nickel	SOLID - INITIAL	10.01	mg/kg	mg/kg			16.0	21.0	17.0	21.0	7.0	19.0	17.0	16.0	19.0	29.0	21.0	18.0	24.0	9.0	14.0	21.0	15.0	10.0	9.0	11.0
7440-36-0	Antimony	SOLID - INITIAL	1.26	mg/kg	mg/kg																						
7440-38-2	Arsenic	SOLID - INITIAL	5.00	mg/kg	mg/kg			7.0	2.0	5.0	6.0	2.0	4.0	8.0	8.0	7.0	6.0	4.0	<1	7.0	6.0	7.0	4.0	8.0	6.0	3.0	3.0
7440-41-7	Beryllium	SOLID - INITIAL	5.04	mg/kg	mg/kg			1.0	<1	1.0	1.0	<1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
7440-42-8	Boron	SOLID - INITIAL	8.69	mg/kg	mg/kg			1.1	<1.0	<1.0	<1.0	<1.0	<1.0	2.5	1.1	<1.0	1.2	<1.0	<1.0	<1.0	<1.0	<1.0	1.7	<1.0	<1.0	<1.0	
7440-43-9	Cadmium	SOLID - INITIAL	0.50	mg/kg	mg/kg			1.3	0.6	0.5	1.6	0.5	<0.5	1.6	1.6	0.7	<0.5	<0.5	<0.5	2.0	1.0	1.5	0.7	1.9	1.2	0.8	0.8
7440-47-3	Chromium	SOLID - INITIAL	315.49	mg/kg	mg/kg			28.0	11.0	23.0	30.0	18.0	29.0	31.0	21.0	25.0	46.0	16.0	16.0	31.0	18.0	27.0	26.0	29.0	26.0	13.0	17.0
7440-50-8	Copper	SOLID - INITIAL	1002.92	mg/kg	mg/kg			9.0	8.0	16.0	20.0	3.0	13.0	12.0	25.0	20.0	21.0	15.0	9.0	23.0	4.0	6.0	16.0	21.0	7.0	6.0	10.0
7440-62-2	Vanadium	SOLID - INITIAL	1.01	mg/kg	mg/kg			41.0	22.0	40.0	35.0	11.0	35.0	42.0	35.0	33.0	49.0	28.0	28.0	43.0	32.0	47.0	38.0	39.0	37.0	24.0	27.0
7440-66-6	Zinc	SOLID - INITIAL	2507.30	mg/kg	mg/kg			31.0	37.0	52.0	97.0	14.0	47.0	37.0	69.0	47.0	67.0	40.0	31.0	105.0	16.0	26.0	47.0	50.0	23.0	23.0	36.0
7782-49-2	Selenium	SOLID - INITIAL	0.50	mg/kg	mg/kg			<1	<1	<1	<1	<1	1.0	<1	<1	<1	2.0	<1	<1	<1	<1	<1	2.0	<1	<1	<1	<1
83-32-9	Acenaphthene	SOLID - INITIAL	965.39	mg/kg	mg/kg			<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.2	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.0	<0.01	0.1	
85-01-8	Phenanthrene	SOLID - INITIAL	3.35	mg/kg	mg/kg			<0.03	0.0	0.1	<0.03	<0.03	0.4	<0.03			<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.1	0.1	0.0	0.6	
86-73-7	Fluorene	SOLID - INITIAL	1.76	mg/kg	mg/kg			<0.01	<0.01	<0.01	<0.01	<0.01	0.1	<0.01			<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.0	<0.01	0.1	
91-20-3	Napthalene	SOLID - INITIAL	0.08	mg/kg	mg/kg			<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03			<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	
P1186	Phenol	SOLID - INITIAL	0.04	mg/kg	mg/kg																						
P1310	Pah,Total	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
P1334	pH	SOLID - INITIAL	#N/A	mg/kg	pH Units																						
P1355	TPH Aromatic >C7-C8	SOLID - INITIAL	10.42	mg/kg	mg/kg				<0.01	<0.01														<0.01	<0.01		
P1356	TPH Aromatic >C8-C10	SOLID - INITIAL	219.16	mg/kg	mg/kg																						
P1357	TPH Aromatic >C10-C12	SOLID - INITIAL	16.54	mg/kg	mg/kg				<0.1	<0.1														<0.1	<0.1		
P1358	TPH Aromatic >C12-C16	SOLID - INITIAL	32.96	mg/kg	mg/kg				<0.1	<0.1														<0.1	<0.1		
P1359	TPH Aromatic >C16-C21	SOLID - INITIAL	82.76	mg/kg	mg/kg				<0.1	<0.1														4.8	0.6		
P1360	TPH Aromatic >C21-C35	SOLID - INITIAL	657.18	mg/kg	mg/kg				<0.1	<0.1														4.4	7.7		
P1407	TPH Aliphatic >C5-6	SOLID - INITIAL	654.68	mg/kg	mg/kg				<0.01	<0.01														<0.01	<0.01		
P1408	TPH Aliphatic >C6-8	SOLID - INITIAL	2946.18	mg/kg	mg/kg				<0.01	<0.01														<0.01	<0.01		
P1409	TPH Aliphatic >C8-10	SOLID - INITIAL	558.25	mg/kg	mg/kg				<0.01	<0.01														<0.01	<0.01		
P1410	TPH Aliphatic >C10-12	SOLID - INITIAL	5510.38	mg/kg	mg/kg																						

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Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	ARP16-CP-BH54	ARP16-CP-BH54	ARP16-CP-BH55	ARP16-CP-TP01	ARP16-CP-TP01	ARP16-CP-TP02	ARP16-CP-TP03	ARP16-CP-TP03	ARP16-CP-TP06	ARP16-CP-TP07	ARP16-CP-TP11	ARP16-CP-TP11	ARP16-CP-TP12	ARP16-CP-TP12	ARP16-CP-TP12	ARP16-CP-TP14	ARP16-CP-TP18	ARP16-CP-TP18	ARP16-CP-TP18	ARP16-CP-TP18														
						0.20	9.00	0.10	0.05	2.15	0.10	0.50	2.65	0.10	0.10	0.10	0.40	0.05	1.15	2.25	0.10	0.10	1.05	1.30	2.00	TS	CHK	TS	CWF	CWF	TS	MG	MG	TS	TS	TS	CWF	MG	CWF
Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	1	3	1	1	4	1	2	5	1	1	1	2	1	3	4	1	1	2	3	4														
Sample Type	Sample Type	Sample Type	Sample Type	Sample Type	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES															
108-67-8	1,3,5-Trimethylbenzene	SOLID - INITIAL	0.15	mg/kg	mg/kg																																		
108-86-1	Bromobenzene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																																		
108-90-7	Chlorobenzene	SOLID - INITIAL	4.46	mg/kg	mg/kg																																		
108-95-2	Phenol	SOLID - INITIAL	0.04	mg/kg	mg/kg																																		
111-91-1	Bis(2-chloroethoxy)methane	SOLID - INITIAL	0.01	mg/kg	mg/kg																																		
117-81-7	Bis(2-ethylhexyl)phthalate	SOLID - INITIAL	18472.17	mg/kg	mg/kg																																		
117-84-0	Di-N-Octyl Phthalate	SOLID - INITIAL	#N/A	mg/kg	mg/kg																																		
118-74-1	Hexachlorobenzene (HCB)	SOLID - INITIAL	#N/A	mg/kg	mg/kg																																		
120-82-1	1,2,4-Trichlorobenzene	SOLID - INITIAL	1.81	mg/kg	mg/kg																																		
120-83-2	2,4-Dichlorophenol	SOLID - INITIAL	0.28	mg/kg	mg/kg																																		
121-14-2	2,4-Dinitrotoluene	SOLID - INITIAL	0.00	mg/kg	mg/kg																																		
122-39-4	Diphenylamine	SOLID - INITIAL	#N/A	mg/kg	mg/kg																																		
124-48-1	Dibromochloromethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																																		
127-18-4	Tetrachloroethene	SOLID - INITIAL	1.46	mg/kg	mg/kg																																		
131-11-3	Dimethylphthalate	SOLID - INITIAL	#N/A	mg/kg	mg/kg																																		
132-64-9	Dibenzofuran	SOLID - INITIAL	0.49	mg/kg	mg/kg																																		
135-98-8	Sec-Butylbenzene	SOLID - INITIAL	1.39	mg/kg	mg/kg																																		
142-28-9	1,3-Dichloropropane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																																		
156-59-2	cis-1,2-Dichloroethene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																																		
156-60-5	trans-1,2-Dichloroethene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																																		
1634-04-4	Methyl tert-butyl ether (MTBE)	SOLID - INITIAL	#N/A	mg/kg	mg/kg				<0.01	<0.01												<0.01	<0.01																
39638-32-9	Bis(2-chloroisopropyl)ether	SOLID - INITIAL	#N/A	mg/kg	mg/kg																																		
528-29-0	O-Dinitrobenzene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																																		
534-52-1	2-Methyl-4,6-Dinitrophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																																		
541-73-1	1,3-Dichlorobenzene	SOLID - INITIAL	145.60	mg/kg	mg/kg																																		
56-23-5	Tetrachloromethane (Carbon Tetra Chloride)	SOLID - INITIAL	#N/A	mg/kg	mg/kg																																		
563-58-6	1,1-Dichloropropene	SOLID - INITIAL	0.41	mg/kg	mg/kg																																		
58-90-2	2,3,4,6-Tetrachlorophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																																		
594-20-7	2,2-Dichloropropane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																																		
59-50-7	4-Chloro-3-Methylphenol	SOLID - INITIAL	2.93	mg/kg	mg/kg																																		
606-20-2	2,6-Dinitrotoluene	SOLID - INITIAL	1.48	mg/kg	mg/kg																																		
62-53-3	Aniline	SOLID - INITIAL	#N/A	mg/kg	mg/kg																																		
630-20-6	1,1,1,2-Tetrachloroethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																																		
67-66-3	Chloroform	SOLID - INITIAL	#N/A	mg/kg	mg/kg																																		
700-57-23	4-Chlorophenyl Phenyl Ether	SOLID - INITIAL	#N/A	mg/kg	mg/kg																																		
71-55-6	1,1,1-Trichloroethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																																		
74-95-3	Dibromomethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																																		
74-97-5	Bromochloromethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																																		
75-01-4	Chloroethene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																																		
75-25-2	Tribromomethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																																		
75-27-4	Bromodichloromethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																																		
75-34-3	1,1-Dichloroethane	SOLID - INITIAL	0.01	mg/kg	mg/kg																																		
75-35-4	1,1-Dichloroethene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																																		
77-47-4	Hexachlorocyclopentadiene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																																		
78-87-5	1,2-Dichloropropane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																																		
79-00-5	1,1,2-Trichloroethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																																		
79-01-6	Trichloroethene	SOLID - INITIAL	0.09	mg/kg	mg/kg																																		
84-66-2	Diethylphthalate	SOLID - INITIAL	#N/A	mg/kg	mg/kg																																		
84-74-2	Di-N-Butyl Phthalate	SOLID - INITIAL	0.52	mg/kg	mg/kg																																		
85-68-7	Butylbenzylphthalate	SOLID - INITIAL	23.36	mg/kg	mg/kg																																		
86-74-8	Carbazole	SOLID - INITIAL	0.01	mg/kg	mg/kg																																		
87-61-6	1,2,3 Trichlorobenzene	SOLID - INITIAL	0.26	mg/kg	mg/kg																																		
87-68-3	Hexachlorobutadiene (HCBd)	SOLID - INITIAL	#N/A	mg/kg	mg/kg																																		
87-86-5	Pentachlorophenol (PCP)	SOLID - INITIAL	#N/A	mg/kg	mg/kg																																		
88-06-2	2,4,6-Trichlorophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																																		
88-74-4	2-Nitroaniline	SOLID - INITIAL	0.01	mg/kg	mg/kg																																		
91-57-6	2-Methylnaphthalene	SOLID - INITIAL	0.84	mg/kg	mg/kg																																		
91-58-7	2-Chloronaphthalene	SOLID - INITIAL	0.92	mg/kg	mg/kg																																		
935-95-5	2,3,5,6-Tetrachlorophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																																		
95-47-6	Xylene	SOLID - INITIAL	0.23	mg/kg	mg/kg				<0.01	<0.01												<0.01	<0.01																
95-48-7	2-Methylphenol	SOLID - INITIAL	0.54	mg/kg	mg/kg																																		
95-49-8	2-Chlorotoluene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																																		
95-50-1	1,2-Dichlorobenzene	SOLID - INITIAL	40.42	mg/kg	mg/kg																																		
95-57-8	2-Chlorophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																																		
95-63-6	1,2,4-Trimethylbenzene	SOLID - INITIAL	0.25	mg/kg	mg/kg																																		
95-95-4	2,4,5-Trichlorophenol	SOLID - INITIAL	60.93	mg/kg	mg/kg																																		
96-12-8	1,2-Dibromo-3-Chloropropane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																																		
96-18-4	1,2,3-Trichloropropane	SOLID - INITIAL	0.44	mg/kg	mg/kg																																		

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Hole Ref	ARP16-CP-BH54	ARP16-CP-BH54	ARP16-CP-BH55	ARP16-CP-TP01	ARP16-CP-TP01	ARP16-CP-TP02	ARP16-CP-TP03	ARP16-CP-TP03	ARP16-CP-TP06	ARP16-CP-TP07	ARP16-CP-TP11	ARP16-CP-TP11	ARP16-CP-TP12	ARP16-CP-TP12	ARP16-CP-TP12	ARP16-CP-TP14	ARP16-CP-TP18	ARP16-CP-TP18	ARP16-CP-TP18	ARP16-CP-TP18
Sample Top	0.20	9.00	0.10	0.05	2.15	0.10	0.50	2.65	0.10	0.10	0.10	0.40	0.05	1.15	2.25	0.10	0.10	1.05	1.30	2.00
Lookup soil	TS	CHK	TS	CWF	CWF	TS	MG	MG	TS	TS	TS	CWF	MG	CWF	CWF	TS	MG	MG	MG	MG
Sample Ref	1	3	1	1	4	1	2	5	1	1	1	2	1	3	4	1	1	2	3	4
Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
98-06-6	Tert-Butylbenzene	SOLID - INITIAL	0.75	mg/kg	mg/kg															
98-82-8	Isopropylbenzene	SOLID - INITIAL	0.27	mg/kg	mg/kg															
99-09-2	3-Nitroaniline	SOLID - INITIAL	#N/A	mg/kg	mg/kg															
99-65-0	M-Dinitrobenzene	SOLID - INITIAL	#N/A	mg/kg	mg/kg															
99-87-6	4-Isopropyltoluene	SOLID - INITIAL	54.06	mg/kg	mg/kg															
P1374	xylene	SOLID - INITIAL	0.23	mg/kg	mg/kg													<0.01	<0.01	
18540-29-9	chromium hexavalent	SOLID - INITIAL	0.02	mg/kg	mg/kg															
P1095	Cyanide Free	SOLID - INITIAL	#N/A	mg/kg	mg/kg															
P1239	Complex Cyanide	SOLID - INITIAL	0.26	mg/kg	mg/kg															
31508-00-6	PCB-118 2,3,4,4,5 - Pentachlorobiphenyl	SOLID - INITIAL	#N/A	mg/kg	mg/kg															
32598-13-3	PCB 77	SOLID - INITIAL	6185.41	mg/kg	mg/kg															
32598-14-4	PCB 105	SOLID - INITIAL	8940.63	mg/kg	mg/kg															
32774-16-6	PCB 169	SOLID - INITIAL	37270.75	mg/kg	mg/kg															
38380-08-4	PCB-156 2,3,3,4,4,5 - Hexachlorobiphenyl	SOLID - INITIAL	3172.26	mg/kg	mg/kg															
39635-31-9	PCB 189	SOLID - INITIAL	270002.64	mg/kg	mg/kg															
52663-72-6	PCB 167	SOLID - INITIAL	45853.03	mg/kg	mg/kg															
57465-28-8	PCB 126	SOLID - INITIAL	8940.63	mg/kg	mg/kg															
65510-44-3	PCB 123	SOLID - INITIAL	8940.63	mg/kg	mg/kg															
69782-90-7	PCB 157	SOLID - INITIAL	45853.03	mg/kg	mg/kg															
70362-50-4	PCB 81	SOLID - INITIAL	8940.63	mg/kg	mg/kg															
74472-37-0	PCB 114	SOLID - INITIAL	8940.63	mg/kg	mg/kg															
100-02-7	4-Nitrophenol	SOLID	0.04	mg/kg	ug/kg															
100-41-4	Ethylbenzene	SOLID	0.53	mg/kg	ug/kg															<1
100-42-5	Styrene	SOLID	1.04	mg/kg	ug/kg															<1
10061-01-5	cis 1,3-Dichloropropene	SOLID	#N/A	mg/kg	ug/kg															<1
10061-02-6	trans 1,3-Dichloropropene	SOLID	#N/A	mg/kg	ug/kg															<1
103-65-1	Propylbenzene	SOLID	0.28	mg/kg	ug/kg															<1
104-51-8	n-Butylbenzene	SOLID	1.39	mg/kg	ug/kg															<1
105-67-9	2,4-Dimethylphenol	SOLID	1.18	mg/kg	ug/kg															<1
106-43-4	4-Chlorotoluene	SOLID	#N/A	mg/kg	ug/kg															<1
106-44-5	4-Methylphenol	SOLID	0.53	mg/kg	ug/kg															<1
106-46-7	1,4-Dichlorobenzene	SOLID	48.01	mg/kg	ug/kg															<1
106-93-4	1,2-Dibromoethane	SOLID	#N/A	mg/kg	ug/kg															<1
107-06-2	1,2-Dichloroethane	SOLID	#N/A	mg/kg	ug/kg															<2
108-67-8	1,3,5-Trimethylbenzene	SOLID	0.15	mg/kg	ug/kg															<1
108-86-1	Bromobenzene	SOLID	#N/A	mg/kg	ug/kg															<1
108-88-3	Toluene	SOLID	0.88	mg/kg	ug/kg															<1
108-90-7	Chlorobenzene	SOLID	4.46	mg/kg	ug/kg															<1
108-95-2	Phenol	SOLID	0.04	mg/kg	ug/kg															<1
111-44-4	Bis(2-chloroethyl)ether	SOLID	#N/A	mg/kg	ug/kg															
111-91-1	Bis(2-chloroethoxy)methane	SOLID	0.01	mg/kg	ug/kg															
117-81-7	Bis(2-ethylhexyl)phthalate	SOLID	18472.17	mg/kg	ug/kg															
117-84-0	n-Diethylphthalate	SOLID	146035.35	mg/kg	ug/kg															
118-74-1	Hexachlorobenzene	SOLID	0.23	mg/kg	ug/kg															
120-82-1	1,2,4-Trichlorobenzene	SOLID	1.81	mg/kg	ug/kg															<3
120-83-2	2,4-Dichlorophenol	SOLID	0.28	mg/kg	ug/kg															
121-14-2	2,4-Dinitrotoluene	SOLID	0.00	mg/kg	ug/kg															
124-48-1	Dibromochloromethane	SOLID	#N/A	mg/kg	ug/kg															<3
127-18-4	Tetrachloroethene	SOLID	1.46	mg/kg	ug/kg															<1
131-11-3	Dimethyl phthalate	SOLID	#N/A	mg/kg	ug/kg															
132-64-9	Dibenzofuran	SOLID	0.49	mg/kg	ug/kg															
135-98-8	sec-Butylbenzene	SOLID	1.39	mg/kg	ug/kg															<1
142-28-9	1,3-Dichloropropane	SOLID	#N/A	mg/kg	ug/kg															<1
156-59-2	cis 1,2-Dichloroethene	SOLID	0.31	mg/kg	ug/kg															<1
156-60-5	trans 1,2-Dichloroethene	SOLID	#N/A	mg/kg	ug/kg															<1
198-55-0	Perylene	SOLID	206.28	mg/kg	ug/kg															
39638-32-9	Bis(2-chloroisopropyl)ether	SOLID	#N/A	mg/kg	ug/kg															
541-73-1	1,3-Dichlorobenzene	SOLID	145.60	mg/kg	ug/kg															<1
56-23-5	Carbon Tetrachloride	SOLID	#N/A	mg/kg	ug/kg															<1
563-58-6	1,1-Dichloropropene	SOLID	0.41	mg/kg	ug/kg															<1
594-20-7	2,2-Dichloropropane	SOLID	#N/A	mg/kg	ug/kg															<1
59-50-7	4-Chloro-3-methylphenol	SOLID	2.93	mg/kg	ug/kg															
606-20-2	2,6-Dinitrotoluene	SOLID	1.48	mg/kg	ug/kg															
621-64-7	n-Nitroso-n-dipropylamine	SOLID	#N/A	mg/kg	ug/kg															
630-20-6	1,1,1,2-Tetrachloroethane	SOLID	#N/A	mg/kg	ug/kg															<1
67-66-3	Chloroform	SOLID	#N/A	mg/kg	ug/kg															<1
67-72-1	Hexachloroethane	SOLID	3.21	mg/kg	ug/kg															
71-43-2	Benzene	SOLID	0.00	mg/kg	ug/kg															<1

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Hole Ref	ARP16-CP-BH54	ARP16-CP-BH54	ARP16-CP-BH55	ARP16-CP-TP01	ARP16-CP-TP01	ARP16-CP-TP02	ARP16-CP-TP03	ARP16-CP-TP03	ARP16-CP-TP06	ARP16-CP-TP07	ARP16-CP-TP11	ARP16-CP-TP11	ARP16-CP-TP12	ARP16-CP-TP12	ARP16-CP-TP12	ARP16-CP-TP14	ARP16-CP-TP18	ARP16-CP-TP18	ARP16-CP-TP18	ARP16-CP-TP18
Sample Top	0.20	9.00	0.10	0.05	2.15	0.10	0.50	2.65	0.10	0.10	0.10	0.40	0.05	1.15	2.25	0.10	0.10	1.05	1.30	2.00
Lookup soil	TS	CHK	TS	CWF	CWF	TS	MG	MG	TS	TS	TS	CWF	MG	CWF	CWF	TS	MG	MG	MG	MG
Sample Ref	1	3	1	1	4	1	2	5	1	1	1	2	1	3	4	1	1	2	3	4
Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES

Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	ARP16-CP-BH54	ARP16-CP-BH54	ARP16-CP-BH55	ARP16-CP-TP01	ARP16-CP-TP01	ARP16-CP-TP02	ARP16-CP-TP03	ARP16-CP-TP03	ARP16-CP-TP06	ARP16-CP-TP07	ARP16-CP-TP11	ARP16-CP-TP11	ARP16-CP-TP12	ARP16-CP-TP12	ARP16-CP-TP12	ARP16-CP-TP14	ARP16-CP-TP18	ARP16-CP-TP18	ARP16-CP-TP18	ARP16-CP-TP18	
1610-18-0	Prometon SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																					
16118-49-3	Carbetamide	SOLID	#N/A	mg/kg	mg/kg																					
1689-83-4	loxynil	SOLID	#N/A	mg/kg	mg/kg																					
1689-84-5	Bromoxynil	SOLID	#N/A	mg/kg	mg/kg																					
1702-17-6	Clopyralid	SOLID	#N/A	mg/kg	mg/kg																					
1746-81-2	Monolinuron	SOLID	#N/A	mg/kg	mg/kg																					
18691-97-9	Methabenzthiazuron	SOLID	#N/A	mg/kg	mg/kg																					
1897-45-6	Chlorothalonil	SOLID	#N/A	mg/kg	ug/kg																					
1912-24-9	Atrazine SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																					
1918-00-9	Dicamba	SOLID	#N/A	mg/kg	mg/kg																					
6607	Picloram	SOLID	#N/A	mg/kg	mg/kg																					
1967-16-4	Chlorbufam	SOLID	#N/A	mg/kg	mg/kg																					
1982-47-4	Chloroxuron	SOLID	#N/A	mg/kg	mg/kg																					
19937-59-8	Metoxuron	SOLID	#N/A	mg/kg	mg/kg																					
2132-70-9	p,p-Methoxychlor	SOLID	#N/A	mg/kg	ug/kg																					
2274-67-1	Chlorpyrifos-methyl	SOLID	#N/A	mg/kg	ug/kg																					
2303-17-5	Triallate	SOLID	#N/A	mg/kg	ug/kg																					
2310-17-0	Phosalone	SOLID	#N/A	mg/kg	ug/kg																					
23103-98-2	Pirimicarb	SOLID	#N/A	mg/kg	mg/kg																					
24017-47-8	Triazophos	SOLID	#N/A	mg/kg	ug/kg																					
25057-89-0	Bentazone	SOLID	#N/A	mg/kg	mg/kg																					
2642-71-9	Azinphos-ethyl	SOLID	#N/A	mg/kg	ug/kg																					
2921-88-2	Chlorpyrifos	SOLID	#N/A	mg/kg	ug/kg																					
29232-93-7	Pirimiphos Methyl	SOLID	#N/A	mg/kg	ug/kg																					
297-78-9	Telodrin	SOLID	#N/A	mg/kg	ug/kg																					
298-00-0	Methyl Parathion	SOLID	#N/A	mg/kg	ug/kg																					
298-01-1	Mevinphos	SOLID	#N/A	mg/kg	ug/kg																					
298-04-4	Disulfoton SUBCON OCP Alcontrol	SOLID	#N/A	mg/kg	ug/kg																					
29973-13-5	Ethiofencarb	SOLID	#N/A	mg/kg	mg/kg																					
30667-99-3	o,p-Methoxychlor	SOLID	#N/A	mg/kg	ug/kg																					
309-00-2	Aldrin SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																					
31218-83-4	Propetamphos	SOLID	#N/A	mg/kg	ug/kg																					
314-40-9	Bromacil	SOLID	#N/A	mg/kg	mg/kg																					
319-84-6	alpha-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																					
	beta-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																					
319-85-7		SOLID	#N/A	mg/kg	ug/kg																					
330-54-1	Diuron SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																					
330-55-2	Linuron	SOLID	#N/A	mg/kg	mg/kg																					
33213-65-9	Endosulphan II	SOLID	#N/A	mg/kg	ug/kg																					
333-41-5	Diazinon	SOLID	#N/A	mg/kg	ug/kg																					
34123-59-6	Isoproturon	SOLID	#N/A	mg/kg	mg/kg																					
34205-21-5	Dimefuron	SOLID	#N/A	mg/kg	mg/kg																					
3424-82-6	o,p-DDE	SOLID	#N/A	mg/kg	ug/kg																					
35367-38-5	Diflufenzuron	SOLID	#N/A	mg/kg	mg/kg																					
698836	Benazolin	SOLID	#N/A	mg/kg	mg/kg																					
38260-54-7	Etrimpfos	SOLID	#N/A	mg/kg	ug/kg																					
40483-25-2	Diclofop	SOLID	#N/A	mg/kg	mg/kg																					
40487-42-1	Pendimethalin	SOLID	#N/A	mg/kg	ug/kg																					
43121-43-3	Triadimefon	SOLID	#N/A	mg/kg	ug/kg																					
465-73-6	Isodrin	SOLID	#N/A	mg/kg	ug/kg																					
470-90-6	Chlorfenvinphos	SOLID	#N/A	mg/kg	ug/kg																					
50-29-3	p,p-DDT SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																					
50-31-7	2,3,6-TBA	SOLID	#N/A	mg/kg	mg/kg																					
5103-71-9	cis-Chlordane SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																					
5103-74-2	trans-Chlordane SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																					
51630-58-1	Fenvalerate SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																					
52315-07-8	Cypermethrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																					
52645-53-1	Permethrin SUBCON RPS MH Pyrethroids	SOLID	#N/A	mg/kg	mg/kg																					
52756-22-6	Flamprop-isopropyl	SOLID	#N/A	mg/kg	mg/kg																					
52918-63-5	Deltamethrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																					
53-19-0	o,p-TDE (DDD)	SOLID	#N/A	mg/kg	ug/kg																					
55335-06-3	Triclopyr	SOLID	#N/A	mg/kg	mg/kg																					
55-38-9	Fenthion	SOLID	#N/A	mg/kg	ug/kg																					
563-12-2	Ethion	SOLID	#N/A	mg/kg	ug/kg																					
56-38-2	Parathion (Ethyl Parathion)	SOLID	#N/A	mg/kg	ug/kg																					
58667-63-3	Fiamprop	SOLID	#N/A	mg/kg	mg/kg																					

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Hole Ref	ARP16-CP-BH54	ARP16-CP-BH54	ARP16-CP-BH55	ARP16-CP-TP01	ARP16-CP-TP01	ARP16-CP-TP02	ARP16-CP-TP03	ARP16-CP-TP03	ARP16-CP-TP06	ARP16-CP-TP07	ARP16-CP-TP11	ARP16-CP-TP11	ARP16-CP-TP12	ARP16-CP-TP12	ARP16-CP-TP12	ARP16-CP-TP14	ARP16-CP-TP18	ARP16-CP-TP18	ARP16-CP-TP18	ARP16-CP-TP18
Sample Top	0.20	9.00	0.10	0.05	2.15	0.10	0.50	2.65	0.10	0.10	0.10	0.40	0.05	1.15	2.25	0.10	0.10	1.05	1.30	2.00
Lookup soil	TS	CHK	TS	CWF	CWF	TS	MG	MG	TS	TS	TS	CWF	MG	CWF	CWF	TS	MG	MG	MG	MG
Sample Ref	1	3	1	1	4	1	2	5	1	1	1	2	1	3	4	1	1	2	3	4
Contaminant Code	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES

Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
58-89-9	gamma-Hexachlorocyclohexane (HCH / Lindane)	SOLID	#N/A	mg/kg	ug/kg															
5915-41-3	Terbutylazine SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg															
60-51-5	Dimethoate	SOLID	#N/A	mg/kg	ug/kg															
60-57-1	Dieldrin SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg															
61949-76-6	Permethrin I (cis) SUBCON Alcontrol OCP	SOLID	#N/A	mg/kg	ug/kg															
61949-77-7	Permethrin II (trans) SUBCON Alcontrol OCP	SOLID	#N/A	mg/kg	ug/kg															
62-73-7	Dichlorvos	SOLID	#N/A	mg/kg	ug/kg															
639-58-7	Triphenyltin SUBCON I2	SOLID	#N/A	mg/kg	ug/kg															
66063-05-6	Pencycuron	SOLID	#N/A	mg/kg	mg/kg															
68085-85-8	Cyhalothrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg															
683-18-1	Dibutyltin Subcon I2	SOLID	#N/A	mg/kg	ug/kg															
68359-37-5	Cyfluthrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg															
72-20-8	Endrin SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg															
72-54-8	p,p-TDE (DDD)	SOLID	#N/A	mg/kg	ug/kg															
72-55-9	p,p-DDE	SOLID	#N/A	mg/kg	ug/kg															
7287-19-6	Prometryn SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg															
76-44-8	Heptachlor SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg															
786-19-6	Carbophenothion	SOLID	#N/A	mg/kg	ug/kg															
789-02-6	o,p-DDT SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg															
81406-37-3	Fluroxypyr	SOLID	#N/A	mg/kg	mg/kg															
82-68-8	Quintozene; (PCNB)	SOLID	#N/A	mg/kg	ug/kg															
834-12-8	Ametryn SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg															
86-50-0	Azinphos-methyl	SOLID	#N/A	mg/kg	ug/kg															
886-50-0	Terbutryn SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg															
93-65-2	MCCPP; (Mecoprop)	SOLID	#N/A	mg/kg	mg/kg															
93-72-1	2,4,5-TP; (Fenoprop); (Silvex)	SOLID	#N/A	mg/kg	mg/kg															
93-76-5	2,4,5-T	SOLID	#N/A	mg/kg	mg/kg															
94-74-6	MCPA	SOLID	#N/A	mg/kg	mg/kg															
94-75-7	2,4-D	SOLID	#N/A	mg/kg	mg/kg															
94-81-5	MCPB	SOLID	#N/A	mg/kg	mg/kg															
94-82-6	2,4-DB	SOLID	#N/A	mg/kg	mg/kg															
959-98-8	Endosulphan I	SOLID	#N/A	mg/kg	ug/kg															
P1362	TPH Aromatic >C35-C44	SOLID	657.18	mg/kg	mg/kg															
P1415	TPH Aliphatic >C35-C44	SOLID	6927070.30	mg/kg	mg/kg															
120-12-7	Anthracene	SOLID	0.16	mg/kg	ug/kg															
129-00-0	Pyrene	SOLID	1.88	mg/kg	ug/kg															
191-24-2	Benzo(g,h,i)perylene	SOLID	2.42	mg/kg	ug/kg															
193-39-5	Indeno(1,2,3-cd)pyrene	SOLID	0.51	mg/kg	ug/kg															
205-99-2	Benzo(b)fluoranthene	SOLID	0.61	mg/kg	ug/kg															
206-44-0	Fluoranthene	SOLID	0.01	mg/kg	ug/kg															
207-08-9	Benzo(k)fluoranthene	SOLID	0.86	mg/kg	ug/kg															
208-96-8	Acenaphthylene	SOLID	1.01	mg/kg	ug/kg															
218-01-9	Chrysene	SOLID	6.38	mg/kg	ug/kg															
50-32-8	Benzo(a)pyrene	SOLID	0.07	mg/kg	ug/kg															
53-70-3	Dibenzo(a,h)anthracene	SOLID	10.80	mg/kg	ug/kg															
56-55-3	Benzo(a)anthracene	SOLID	4.50	mg/kg	ug/kg															
83-32-9	Acenaphthene	SOLID	965.39	mg/kg	ug/kg															
85-01-8	Phenanthrene	SOLID	3.35	mg/kg	ug/kg															
86-73-7	Fluorene	SOLID	1.76	mg/kg	ug/kg															
91-20-3	Napthalene	SOLID	0.08	mg/kg	ug/kg															
302-04-5	Thiocyanate	SOLID	62.96	mg/kg	mg/kg															
P1879	Xylenols	SOLID - INITIAL	2.39	mg/kg	mg/kg															
P2098	Cresols	SOLID - INITIAL	0.54	mg/kg	mg/kg															
12001-28-4	Asbestos: Crocidolite	SOLID - INITIAL	#N/A	mg/kg	No units															
12001-29-5	Asbestos: Chrysotile	SOLID - INITIAL	#N/A	mg/kg	No units															
12172-67-7	Asbestos: Actinolite	SOLID - INITIAL	#N/A	mg/kg	No units															
12172-73-5	Asbestos: Amosite	SOLID - INITIAL	#N/A	mg/kg	No units															
14567-73-8	Asbestos: Tremolite	SOLID - INITIAL	#N/A	mg/kg	No units															
17068-78-9	Asbestos: Anthophyllite	SOLID - INITIAL	#N/A	mg/kg	No units															
1002-53-5	Dibutyl Tin	SOLID - INITIAL	0.00	mg/kg	mg/kg															
1461-22-9	Tributyltin	SOLID - INITIAL	0.00	mg/kg	mg/kg															
1461-25-2	Tetrabutyl Tin	SOLID - INITIAL	0.00	mg/kg	mg/kg															
1634-04-4	Methyl tert-butyl ether (MTBE)	SOLID - INITIAL	#N/A	mg/kg	ug/kg															
1746-01-6	2,3,7,8-Tetrachlorodibenzo-p-dioxin	SOLID - INITIAL	#N/A	mg/kg	ng/g															
181274-15-7	Propoxycarbazono-sodium	SOLID - INITIAL	#N/A	mg/kg	mg/kg															
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-P-Dioxin	SOLID - INITIAL	94064.99	mg/kg	ng/g															
298-02-2	Phorate	SOLID - INITIAL	#N/A	mg/kg	ug/kg															

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Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	Hole Ref	ARP16-CP-BH54	ARP16-CP-BH54	ARP16-CP-BH55	ARP16-CP-TP01	ARP16-CP-TP01	ARP16-CP-TP02	ARP16-CP-TP03	ARP16-CP-TP03	ARP16-CP-TP06	ARP16-CP-TP07	ARP16-CP-TP11	ARP16-CP-TP11	ARP16-CP-TP12	ARP16-CP-TP12	ARP16-CP-TP12	ARP16-CP-TP14	ARP16-CP-TP18	ARP16-CP-TP18	ARP16-CP-TP18	ARP16-CP-TP18
						Sample Top	Lookup soil	Sample Ref	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
31508-00-6	PCB-118 2,3',4,4',5 - Pentachlorobiphenyl	SOLID - INITIAL	694.02	mg/kg	ng/g		0.20	9.00	0.10	0.05	2.15	0.10	0.50	2.65	0.10	0.10	0.10	0.40	0.05	1.15	2.25	0.10	0.10	1.05	1.30	2.00
32598-13-3	PCB 77	SOLID - INITIAL	6185.41	mg/kg	ng/g		TS	CHK	TS	CWF	CWF	TS	MG	MG	TS	TS	TS	CWF	MG	CWF	CWF	TS	MG	MG	MG	MG
32598-14-4	PCB 105	SOLID - INITIAL	8940.63	mg/kg	ng/g		1	3	1	1	4	1	2	5	1	1	1	2	1	3	4	1	1	2	3	4
3268-87-9	Octachlorodibenzo-p-dioxin	SOLID - INITIAL	91923.81	mg/kg	ng/g		ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
32774-16-6	PCB 169	SOLID - INITIAL	37270.75	mg/kg	ng/g																					
3380-34-5	Triclosan	SOLID - INITIAL	0.33	mg/kg	mg/kg																					
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-P-Dioxin	SOLID - INITIAL	91923.81	mg/kg	ng/g																					
38380-08-4	PCB-156 2,3,3,4,4,5 - Hexachlorobiphenyl	SOLID - INITIAL	3172.26	mg/kg	ng/g																					
39001-02-0	Octachlorodibenzofuran	SOLID - INITIAL	46180.43	mg/kg	ng/g																					
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-P-Dioxin	SOLID - INITIAL	36595.53	mg/kg	ng/g																					
39635-31-9	PCB 189	SOLID - INITIAL	270002.64	mg/kg	ng/g																					
40321-76-4	1,2,3,7,8-Pentachlorodibenzo-P-Dioxin	SOLID - INITIAL	#N/A	mg/kg	ng/g																					
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	SOLID - INITIAL	393.06	mg/kg	ng/g																					
52645-53-1	Permethrin	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					
52663-72-6	PCB 167	SOLID - INITIAL	45853.03	mg/kg	ng/g																					
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	SOLID - INITIAL	9648.46	mg/kg	ng/g																					
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	SOLID - INITIAL	964.85	mg/kg	ng/g																					
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	SOLID - INITIAL	715.25	mg/kg	ng/g																					
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	SOLID - INITIAL	715.25	mg/kg	ng/g																					
57465-28-8	PCB 126	SOLID - INITIAL	8940.63	mg/kg	ng/g																					
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-P-Dioxin	SOLID - INITIAL	91923.81	mg/kg	ng/g																					
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofura	SOLID - INITIAL	715.25	mg/kg	ng/g																					
62476-59-9	Acifluorfen	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
65510-44-3	PCB 123	SOLID - INITIAL	8940.63	mg/kg	ng/g																					
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	SOLID - INITIAL	715.25	mg/kg	ng/g																					
69782-90-7	PCB 157	SOLID - INITIAL	45853.03	mg/kg	ng/g																					
70362-50-4	PCB 81	SOLID - INITIAL	8940.63	mg/kg	ng/g																					
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	SOLID - INITIAL	715.25	mg/kg	ng/g																					
7085-19-0	mecoprop	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
72-43-5	Methoxychlor	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	SOLID - INITIAL	#N/A	mg/kg	ng/g																					
74472-37-0	PCB 114	SOLID - INITIAL	8940.63	mg/kg	ng/g																					
88-85-7	Dinoseb	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
892-20-6	Triphenyltin	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
P1330	BTEX	SOLID - INITIAL	0.00	mg/kg	ug/kg																					
P1354	TPH Aromatic >C6-C7	SOLID - INITIAL	0.05	mg/kg	ug/kg																					
P1355	TPH Aromatics > C7-C8	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					
P1356	Aromatics >C8-10	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					
P1357	Aromatics >C10-12	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					
P1358	Aromatics >C12-16	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					
P1359	Aromatics >C16-21	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					
P1360	Aromatics >C21-35	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					
P1362	Aromatics >C35-44	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					
P1407	Aliphatics >C5-6	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					
P1408	Aliphatics >C6-8	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					
P1409	Aliphatics >C8-10	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					
P1410	Aliphatics >C10-12	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					
P1411	Aliphatics >C12-16	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					
P1412	Aliphatics >C16-21	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					
P1413	Aliphatics >C21-35	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					
P1415	Aliphatics >C35-44	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					
15541-45-4	Bromate	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
16065-83-1	Trivalent Chromium	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
16887-00-6	Chloride	SOLID - INITIAL	268.18	mg/kg	mg/kg																					
16984-48-8	Fluoride	SOLID - INITIAL	0.41	mg/kg	mg/kg																					
18496-25-8	Sulphide	SOLID - INITIAL	#VALUE!	mg/kg	mg/kg																					
24959-67-9	Bromide	SOLID - INITIAL	#VALUE!	mg/kg	mg/kg																					
7439-89-6	Iron	SOLID - INITIAL	44.05	mg/kg	mg/kg																					
7439-95-4	Magnesium	SOLID - INITIAL	0.00	mg/kg	mg/kg																					
7439-98-7	Molybdenum	SOLID - INITIAL	0.10	mg/kg	mg/kg																					
2023695	Potassium	SOLID - INITIAL	0.00	mg/kg	mg/kg																					
7440-23-5	Sodium	SOLID - INITIAL	263.64	mg/kg	mg/kg																					
7440-70-2	Calcium	SOLID - INITIAL	0.00	mg/kg	mg/kg																					
P1238	Ammoniacal Nitrogen as N	SOLID - INITIAL	0.11	mg/kg	mg/kg																					
P1286	Manganese	SOLID - INITIAL	2.51	mg/kg	mg/kg																					

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					Hole Ref	ARP16-CP-BH54	ARP16-CP-BH54	ARP16-CP-BH55	ARP16-CP-TP01	ARP16-CP-TP01	ARP16-CP-TP02	ARP16-CP-TP03	ARP16-CP-TP03	ARP16-CP-TP06	ARP16-CP-TP07	ARP16-CP-TP11	ARP16-CP-TP11	ARP16-CP-TP12	ARP16-CP-TP12	ARP16-CP-TP12	ARP16-CP-TP14	ARP16-CP-TP18	ARP16-CP-TP18	ARP16-CP-TP18	ARP16-CP-TP18
					Sample Top	0.20	9.00	0.10	0.05	2.15	0.10	0.50	2.65	0.10	0.10	0.10	0.40	0.05	1.15	2.25	0.10	0.10	1.05	1.30	2.00
					Lookup soil	TS	CHK	TS	CWF	CWF	TS	MG	MG	TS	TS	TS	CWF	MG	CWF	CWF	TS	MG	MG	MG	MG
					Sample Ref	1	3	1	1	4	1	2	5	1	1	1	2	1	3	4	1	1	2	3	4
Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	
103-33-3	Azobenzene	SOLID - INITIAL	0.38	mg/kg	ug/kg																				
106-47-8	4-Chloroaniline	SOLID - INITIAL	0.01	mg/kg	ug/kg																				
700-57-23	4-Chlorophenylphenylether	SOLID - INITIAL	#N/A	mg/kg	ug/kg																				
88-74-4	2-Nitroaniline	SOLID - INITIAL	0.01	mg/kg	ug/kg																				
99-09-2	3-Nitroaniline	SOLID - INITIAL	#N/A	mg/kg	ug/kg																				
994-05-8	Tertiary Amyl Methyl Ether	SOLID - INITIAL	#N/A	mg/kg	ug/kg																				
1336-36-6	PCB Total (WAC only)	SOLID	#N/A	mg/kg	mg/kg																				
P1330	BTEX (total) WAC	SOLID	#N/A	mg/kg	mg/kg																				

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Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	Hole Ref	ARP16-CP-TP20	ARP16-CP-TP23	ARP16-CP-TP32	ARP16-CP-TP35	ARP16-CP-TP39	ARP16-CP-TP40	ARP16-CP-TP41	ARP16-CP-TP43	ARP16-CP-TP44	ARP16-CP-TP44	ARP16-CP-TP45	ARP16-CP-TP46	ARP16-CP-TP46	ARP16-CP-TP49	ARP16-CP-TP49	ARP16-CP-TP49	ARP16-CP-TP51	ARP16-CP-TP52	ARP16-CP-TP52	ARP16-CP-TP52	
						Sample Top	Lookup soil	Sample Ref	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
108-67-8	1,3,5-Trimethylbenzene	SOLID - INITIAL	0.15	mg/kg	mg/kg																						
108-86-1	Bromobenzene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
108-90-7	Chlorobenzene	SOLID - INITIAL	4.46	mg/kg	mg/kg																						
108-95-2	Phenol	SOLID - INITIAL	0.04	mg/kg	mg/kg																						
111-91-1	Bis(2-chloroethoxy)methane	SOLID - INITIAL	0.01	mg/kg	mg/kg																						
117-81-7	Bis(2-ethylhexyl)phthalate	SOLID - INITIAL	18472.17	mg/kg	mg/kg																						
117-84-0	Di-N-Octyl Phthalate	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
118-74-1	Hexachlorobenzene (HCB)	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
120-82-1	1,2,4-Trichlorobenzene	SOLID - INITIAL	1.81	mg/kg	mg/kg																						
120-83-2	2,4-Dichlorophenol	SOLID - INITIAL	0.28	mg/kg	mg/kg																						
121-14-2	2,4-Dinitrotoluene	SOLID - INITIAL	0.00	mg/kg	mg/kg																						
122-39-4	Diphenylamine	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
124-48-1	Dibromochloromethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
127-18-4	Tetrachloroethene	SOLID - INITIAL	1.46	mg/kg	mg/kg																						
131-11-3	Dimethylphthalate	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
132-64-9	Dibenzofuran	SOLID - INITIAL	0.49	mg/kg	mg/kg																						
135-98-8	Sec-Butylbenzene	SOLID - INITIAL	1.39	mg/kg	mg/kg																						
142-28-9	1,3-Dichloropropane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
156-59-2	cis-1,2-Dichloroethene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
156-60-5	trans-1,2-Dichloroethene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
1634-04-4	Methyl tert-butyl ether (MTBE)	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
39638-32-9	Bis(2-chloroisopropyl)ether	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
528-29-0	O-Dinitrobenzene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
534-52-1	2-Methyl-4,6-Dinitrophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
541-73-1	1,3-Dichlorobenzene	SOLID - INITIAL	145.60	mg/kg	mg/kg																						
56-23-5	Tetrachloromethane (Carbon Tetra Chloride)	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
563-58-6	1,1-Dichloropropene	SOLID - INITIAL	0.41	mg/kg	mg/kg																						
58-90-2	2,3,4,6-Tetrachlorophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
594-20-7	2,2-Dichloropropane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
59-50-7	4-Chloro-3-Methylphenol	SOLID - INITIAL	2.93	mg/kg	mg/kg																						
606-20-2	2,6-Dinitrotoluene	SOLID - INITIAL	1.48	mg/kg	mg/kg																						
62-53-3	Aniline	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
630-20-6	1,1,1,2-Tetrachloroethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
67-66-3	Chloroform	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
700-57-23	4-Chlorophenyl Phenyl Ether	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
71-55-6	1,1,1-Trichloroethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
74-95-3	Dibromomethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
74-97-5	Bromochloromethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
75-01-4	Chloroethene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
75-25-2	Tribromomethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
75-27-4	Bromodichloromethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
75-34-3	1,1-Dichloroethane	SOLID - INITIAL	0.01	mg/kg	mg/kg																						
75-35-4	1,1-Dichloroethene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
77-47-4	Hexachlorocyclopentadiene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
78-87-5	1,2-Dichloropropane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
79-00-5	1,1,2-Trichloroethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
79-01-6	Trichloroethene	SOLID - INITIAL	0.09	mg/kg	mg/kg																						
84-66-2	Diethylphthalate	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
84-74-2	Di-N-Butyl Phthalate	SOLID - INITIAL	0.52	mg/kg	mg/kg																						
85-68-7	Butylbenzylphthalate	SOLID - INITIAL	23.36	mg/kg	mg/kg																						
86-74-8	Carbazole	SOLID - INITIAL	0.01	mg/kg	mg/kg																						
87-61-6	1,2,3 Trichlorobenzene	SOLID - INITIAL	0.26	mg/kg	mg/kg																						
87-68-3	Hexachlorobutadiene (HCBd)	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
87-86-5	Pentachlorophenol (PCP)	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
88-06-2	2,4,6-Trichlorophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
88-74-4	2-Nitroaniline	SOLID - INITIAL	0.01	mg/kg	mg/kg																						
91-57-6	2-Methylnaphthalene	SOLID - INITIAL	0.84	mg/kg	mg/kg																						
91-58-7	2-Chloronaphthalene	SOLID - INITIAL	0.92	mg/kg	mg/kg																						
935-95-5	2,3,5,6-Tetrachlorophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
95-47-6	Xylene	SOLID - INITIAL	0.23	mg/kg	mg/kg																						
95-48-7	2-Methylphenol	SOLID - INITIAL	0.54	mg/kg	mg/kg																						
95-49-8	2-Chlorotoluene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
95-50-1	1,2-Dichlorobenzene	SOLID - INITIAL	40.42	mg/kg	mg/kg																						
95-57-8	2-Chlorophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
95-63-6	1,2,4-Trimethylbenzene	SOLID - INITIAL	0.25	mg/kg	mg/kg																						
95-95-4	2,4,5-Trichlorophenol	SOLID - INITIAL																									

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Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	ARP16-CP-TP20	ARP16-CP-TP23	ARP16-CP-TP32	ARP16-CP-TP35	ARP16-CP-TP39	ARP16-CP-TP40	ARP16-CP-TP41	ARP16-CP-TP43	ARP16-CP-TP44	ARP16-CP-TP44	ARP16-CP-TP45	ARP16-CP-TP46	ARP16-CP-TP46	ARP16-CP-TP49	ARP16-CP-TP49	ARP16-CP-TP49	ARP16-CP-TP51	ARP16-CP-TP52	ARP16-CP-TP52	ARP16-CP-TP52
						1.00	0.30	0.10	0.20	0.20	0.10	0.10	0.20	0.00	2.00	0.10	0.05	0.30	0.00	0.25	1.80	0.10	0.00	0.45	1.65
98-06-6	Tert-Butylbenzene	SOLID - INITIAL	0.75	mg/kg	mg/kg																				
98-82-8	Isopropylbenzene	SOLID - INITIAL	0.27	mg/kg	mg/kg																				
99-09-2	3-Nitroaniline	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
99-65-0	M-Dinitrobenzene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
99-87-6	4-Isopropyltoluene	SOLID - INITIAL	54.06	mg/kg	mg/kg																				
P1374	xylene	SOLID - INITIAL	0.23	mg/kg	mg/kg									<0.01	<0.01						<0.01			<0.01	<0.01
18540-29-9	chromium hexavalent	SOLID - INITIAL	0.02	mg/kg	mg/kg																				
P1095	Cyanide Free	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
P1239	Complex Cyanide	SOLID - INITIAL	0.26	mg/kg	mg/kg																				
31508-00-6	PCB-118 2,3,4,4,5 - Pentachlorobiphenyl	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
32598-13-3	PCB 77	SOLID - INITIAL	6185.41	mg/kg	mg/kg																				
32598-14-4	PCB 105	SOLID - INITIAL	8940.63	mg/kg	mg/kg																				
32774-16-6	PCB 169	SOLID - INITIAL	37270.75	mg/kg	mg/kg																				
38380-08-4	PCB-156 2,3,3,4,4,5 - Hexachlorobiphenyl	SOLID - INITIAL	3172.26	mg/kg	mg/kg																				
39635-31-9	PCB 189	SOLID - INITIAL	270002.64	mg/kg	mg/kg																				
52663-72-6	PCB 167	SOLID - INITIAL	45853.03	mg/kg	mg/kg																				
57465-28-8	PCB 126	SOLID - INITIAL	8940.63	mg/kg	mg/kg																				
65510-44-3	PCB 123	SOLID - INITIAL	8940.63	mg/kg	mg/kg																				
69782-90-7	PCB 157	SOLID - INITIAL	45853.03	mg/kg	mg/kg																				
70362-50-4	PCB 81	SOLID - INITIAL	8940.63	mg/kg	mg/kg																				
74472-37-0	PCB 114	SOLID - INITIAL	8940.63	mg/kg	mg/kg																				
100-02-7	4-Nitrophenol	SOLID	0.04	mg/kg	ug/kg																				
100-41-4	Ethylbenzene	SOLID	0.53	mg/kg	ug/kg																				
100-42-5	Styrene	SOLID	1.04	mg/kg	ug/kg																				
10061-01-5	cis 1,3-Dichloropropene	SOLID	#N/A	mg/kg	ug/kg																				
10061-02-6	trans 1,3-Dichloropropene	SOLID	#N/A	mg/kg	ug/kg																				
103-65-1	Propylbenzene	SOLID	0.28	mg/kg	ug/kg																				
104-51-8	n-Butylbenzene	SOLID	1.39	mg/kg	ug/kg																				
105-67-9	2,4-Dimethylphenol	SOLID	1.18	mg/kg	ug/kg																				
106-43-4	4-Chlorotoluene	SOLID	#N/A	mg/kg	ug/kg																				
106-44-5	4-Methylphenol	SOLID	0.53	mg/kg	ug/kg																				
106-46-7	1,4-Dichlorobenzene	SOLID	48.01	mg/kg	ug/kg																				
106-93-4	1,2-Dibromoethane	SOLID	#N/A	mg/kg	ug/kg																				
107-06-2	1,2-Dichloroethane	SOLID	#N/A	mg/kg	ug/kg																				
108-67-8	1,3,5-Trimethylbenzene	SOLID	0.15	mg/kg	ug/kg																				
108-86-1	Bromobenzene	SOLID	#N/A	mg/kg	ug/kg																				
108-88-3	Toluene	SOLID	0.88	mg/kg	ug/kg																				
108-90-7	Chlorobenzene	SOLID	4.46	mg/kg	ug/kg																				
108-95-2	Phenol	SOLID	0.04	mg/kg	ug/kg																				
111-44-4	Bis(2-chloroethyl)ether	SOLID	#N/A	mg/kg	ug/kg																				
111-91-1	Bis(2-chloroethoxy)methane	SOLID	0.01	mg/kg	ug/kg																				
117-81-7	Bis(2-ethylhexyl)phthalate	SOLID	18472.17	mg/kg	ug/kg																				
117-84-0	n-Diethylphthalate	SOLID	146035.35	mg/kg	ug/kg																				
118-74-1	Hexachlorobenzene	SOLID	0.23	mg/kg	ug/kg																				
120-82-1	1,2,4-Trichlorobenzene	SOLID	1.81	mg/kg	ug/kg																				
120-83-2	2,4-Dichlorophenol	SOLID	0.28	mg/kg	ug/kg																				
121-14-2	2,4-Dinitrotoluene	SOLID	0.00	mg/kg	ug/kg																				
124-48-1	Dibromochloromethane	SOLID	#N/A	mg/kg	ug/kg																				
127-18-4	Tetrachloroethene	SOLID	1.46	mg/kg	ug/kg																				
131-11-3	Dimethyl phthalate	SOLID	#N/A	mg/kg	ug/kg																				
132-64-9	Dibenzofuran	SOLID	0.49	mg/kg	ug/kg																				
135-98-8	sec-Butylbenzene	SOLID	1.39	mg/kg	ug/kg																				
142-28-9	1,3-Dichloropropane	SOLID	#N/A	mg/kg	ug/kg																				
156-59-2	cis 1,2-Dichloroethene	SOLID	0.31	mg/kg	ug/kg																				
156-60-5	trans 1,2-Dichloroethene	SOLID	#N/A	mg/kg	ug/kg																				
198-55-0	Perylene	SOLID	206.28	mg/kg	ug/kg																				
39638-32-9	Bis(2-chloroisopropyl)ether	SOLID	#N/A	mg/kg	ug/kg																				
541-73-1	1,3-Dichlorobenzene	SOLID	145.60	mg/kg	ug/kg																				
56-23-5	Carbon Tetrachloride	SOLID	#N/A	mg/kg	ug/kg																				
563-58-6	1,1-Dichloropropene	SOLID	0.41	mg/kg	ug/kg																				
594-20-7	2,2-Dichloropropane	SOLID	#N/A	mg/kg	ug/kg																				
59-50-7	4-Chloro-3-methylphenol	SOLID	2.93	mg/kg	ug/kg																				
606-20-2	2,6-Dinitrotoluene	SOLID	1.48	mg/kg	ug/kg																				
621-64-7	n-Nitroso-n-dipropylamine	SOLID	#N/A	mg/kg	ug/kg																				
630-20-6	1,1,1,2-Tetrachloroethane	SOLID	#N/A	mg/kg	ug/kg																				
67-66-3	Chloroform	SOLID	#N/A	mg/kg	ug/kg																				
67-72-1	Hexachloroethane	SOLID	3.21	mg/kg	ug/kg																				
71-43-2	Benzene	SOLID	0.00	mg/kg	ug/kg																				

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Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	Hole Ref	ARP16-CP-TP20	ARP16-CP-TP23	ARP16-CP-TP32	ARP16-CP-TP35	ARP16-CP-TP39	ARP16-CP-TP40	ARP16-CP-TP41	ARP16-CP-TP43	ARP16-CP-TP44	ARP16-CP-TP44	ARP16-CP-TP45	ARP16-CP-TP46	ARP16-CP-TP46	ARP16-CP-TP49	ARP16-CP-TP49	ARP16-CP-TP49	ARP16-CP-TP51	ARP16-CP-TP52	ARP16-CP-TP52	ARP16-CP-TP52
						Sample Top	Lookup soil	Sample Ref	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
71-55-6	1,1,1-Trichloroethane	SOLID	#N/A	mg/kg	ug/kg																					
7440-39-3	Barium	SOLID	78.73	mg/kg	mg/kg		102.0	44.0	111.0	50.0	73.0	36.0	108.0	69.0	68.0	46.0	87.0	102.0	54.0	82.0	88.0	75.0	104.0	52.0	101.0	63.0
74-83-9	Bromomethane	SOLID	#N/A	mg/kg	ug/kg																					
74-87-3	Chloromethane	SOLID	0.02	mg/kg	ug/kg																					
74-95-3	Dibromomethane	SOLID	#N/A	mg/kg	ug/kg																					
74-97-5	Bromochloromethane	SOLID	#N/A	mg/kg	ug/kg																					
75-00-3	Chloroethane	SOLID	#N/A	mg/kg	ug/kg																					
75-01-4	Vinyl Chloride	SOLID	#N/A	mg/kg	ug/kg																					
75-09-2	Dichloromethane	SOLID	0.03	mg/kg	ug/kg																					
75-15-0	Carbon Disulphide	SOLID	0.07	mg/kg	ug/kg																					
75-25-2	Bromoform	SOLID	#N/A	mg/kg	ug/kg																					
75-27-4	Bromodichloromethane	SOLID	#N/A	mg/kg	ug/kg																					
75-34-3	1,1-Dichloroethane	SOLID	0.01	mg/kg	ug/kg																					
75-35-4	1,1-Dichloroethene	SOLID	#N/A	mg/kg	ug/kg																					
75-69-4	Trichlorofluoromethane	SOLID	0.05	mg/kg	ug/kg																					
75-71-8	Dichlorodifluoromethane	SOLID	#N/A	mg/kg	ug/kg																					
77-47-4	Hexachlorocyclopentadiene	SOLID	#N/A	mg/kg	ug/kg																					
78-59-1	Isophorone	SOLID	22.26	mg/kg	ug/kg																					
78-87-5	1,2-Dichloropropane	SOLID	#N/A	mg/kg	ug/kg																					
79-00-5	1,1,2-Trichloroethane	SOLID	#N/A	mg/kg	ug/kg																					
79-01-6	Trichloroethene	SOLID	0.09	mg/kg	ug/kg																					
79-34-5	1,1,2,2-Tetrachloroethane	SOLID	2.66	mg/kg	ug/kg																					
84-66-2	Diethyl phthalate	SOLID	3.11	mg/kg	ug/kg																					
84-74-2	Di-N-Butyl Phthalate	SOLID	0.52	mg/kg	ug/kg																					
85-68-7	Butylbenzyl phthalate	SOLID	23.36	mg/kg	ug/kg																					
86-74-8	Carbazole	SOLID	0.01	mg/kg	ug/kg																					
87-61-6	1,2,3-Trichlorobenzene	SOLID	#N/A	mg/kg	ug/kg																					
87-68-3	Hexachlorobutadiene	SOLID	#N/A	mg/kg	ug/kg																					
87-86-5	Pentachlorophenol	SOLID	2.17	mg/kg	ug/kg																					
88-06-2	2,4,6-Trichlorophenol	SOLID	#N/A	mg/kg	ug/kg																					
88-75-5	2-Nitrophenol	SOLID	0.03	mg/kg	ug/kg																					
91-57-6	2-Methylnaphthalene (SVOC) DEFAULT	SOLID	0.84	mg/kg	ug/kg																					
91-58-7	2-Chloronaphthalene	SOLID	0.92	mg/kg	ug/kg																					
95-47-6	Xylene	SOLID	0.23	mg/kg	ug/kg																					
95-48-7	2-Methylphenol	SOLID	0.54	mg/kg	ug/kg																					
95-49-8	2-Chlorotoluene	SOLID	#N/A	mg/kg	ug/kg																					
95-50-1	1,2-Dichlorobenzene	SOLID	40.42	mg/kg	ug/kg																					
95-57-8	2-Chlorophenol	SOLID	#N/A	mg/kg	ug/kg																					
95-63-6	1,2,4-Trimethylbenzene	SOLID	0.25	mg/kg	ug/kg																					
95-95-4	2,4,5-Trichlorophenol	SOLID	60.93	mg/kg	ug/kg																					
96-12-8	1,2-Dibromo-3-chloropropane	SOLID	#N/A	mg/kg	ug/kg																					
96-18-4	1,2,3-Trichloropropane	SOLID	0.44	mg/kg	ug/kg																					
98-06-6	tert-Butylbenzene	SOLID	0.75	mg/kg	ug/kg																					
98-82-8	Isopropylbenzene	SOLID	0.27	mg/kg	ug/kg																					
98-95-3	Nitrobenzene	SOLID	0.00	mg/kg	ug/kg																					
99-87-6	4-Isopropyltoluene	SOLID	54.06	mg/kg	ug/kg																					
P1374	Xylene	SOLID	0.23	mg/kg	ug/kg																					
P1762	TPH Aromatic >C8-C10	SOLID	219.16	mg/kg	mg/kg									<0.01	<0.01						<0.01			<0.01	<0.01	
P1763	TPH Aromatic >C8-C10	SOLID	219.16	mg/kg	mg/kg									<0.01	<0.01						<0.01			<0.01	<0.01	
P1334	pH	SOLID	#N/A	mg/kg	pH																					
101-21-3	Chlorpropham	SOLID	#N/A	mg/kg	mg/kg																					
1014-70-6	Simetryn SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																					
1024-57-3	Heptachlor Epoxide	SOLID	#N/A	mg/kg	ug/kg																					
1031-07-8	Endosulphan Sulphate	SOLID	#N/A	mg/kg	ug/kg																					
117-18-0	Tecnazene	SOLID	#N/A	mg/kg	ug/kg																					
120-36-5	2,4-DP; (Dichlorprop)	SOLID	#N/A	mg/kg	mg/kg																					
121-75-5	Malathion	SOLID	#N/A	mg/kg	ug/kg																					
122-14-5	Fenitrothion	SOLID	#N/A	mg/kg	ug/kg																					
122-34-9	Simazine SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																					
122-42-9	Propham	SOLID	#N/A	mg/kg	mg/kg																					
122-88-3	4-CPA	SOLID	#N/A	mg/kg	mg/kg																					
13684-63-4	Phenmedipham	SOLID	#N/A	mg/kg	mg/kg																					
139-40-2	Propazine SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																					
1461-22-9	Tributyltin SUBCON i2	SOLID	#N/A	mg/kg	ug/kg																					
150-68-5	Monuron	SOLID	#N/A	mg/kg	mg/kg																					
15545-48-9	Chlortoluron	SOLID	#N/A	mg/kg	mg/kg																					
1582-09-8	Trifluralin SUBCON Alcontrol OCP	SOLID	#N/A	mg/kg	ug/kg																					
1610-17-9	Atraton SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg					</																

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Hole Ref	ARP16-CP-TP20	ARP16-CP-TP23	ARP16-CP-TP32	ARP16-CP-TP35	ARP16-CP-TP39	ARP16-CP-TP40	ARP16-CP-TP41	ARP16-CP-TP43	ARP16-CP-TP44	ARP16-CP-TP44	ARP16-CP-TP45	ARP16-CP-TP46	ARP16-CP-TP46	ARP16-CP-TP49	ARP16-CP-TP49	ARP16-CP-TP49	ARP16-CP-TP51	ARP16-CP-TP52	ARP16-CP-TP52	ARP16-CP-TP52	
Sample Top	1.00	0.30	0.10	0.20	0.20	0.10	0.10	0.20	0.00	2.00	0.10	0.05	0.30	0.00	0.25	1.80	0.10	0.00	0.45	1.65	
Lookup soil	HEAD	CWF	TS	TS	TS	TS	TS	CHK	MG	MG	TS	MG	CWF	MG	MG	MG	TS	MG	MG	MG	
Sample Ref	2	2	1	1	1	1	1	1	1	3	1	1	2	1	2	5	1	1	2	4	
Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
1610-18-0	Prometon SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																
16118-49-3	Carbetamide	SOLID	#N/A	mg/kg	mg/kg																
1689-83-4	loxynil	SOLID	#N/A	mg/kg	mg/kg																
1689-84-5	Bromoxynil	SOLID	#N/A	mg/kg	mg/kg																
1702-17-6	Clopyralid	SOLID	#N/A	mg/kg	mg/kg																
1746-81-2	Monolinuron	SOLID	#N/A	mg/kg	mg/kg																
18691-97-9	Methabenzthiazuron	SOLID	#N/A	mg/kg	mg/kg																
1897-45-6	Chlorothalonil	SOLID	#N/A	mg/kg	ug/kg																
1912-24-9	Atrazine SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																
1918-00-9	Dicamba	SOLID	#N/A	mg/kg	mg/kg																
6607	Picloram	SOLID	#N/A	mg/kg	mg/kg																
1967-16-4	Chlorbufam	SOLID	#N/A	mg/kg	mg/kg																
1982-47-4	Chloroxuron	SOLID	#N/A	mg/kg	mg/kg																
19937-59-8	Metoxuron	SOLID	#N/A	mg/kg	mg/kg																
2132-70-9	p,p-Methoxychlor	SOLID	#N/A	mg/kg	ug/kg																
2274-67-1	Chlorpyrifos-methyl	SOLID	#N/A	mg/kg	ug/kg																
2303-17-5	Triallate	SOLID	#N/A	mg/kg	ug/kg																
2310-17-0	Phosalone	SOLID	#N/A	mg/kg	ug/kg																
23103-98-2	Pirimicarb	SOLID	#N/A	mg/kg	mg/kg																
24017-47-8	Triazophos	SOLID	#N/A	mg/kg	ug/kg																
25057-89-0	Bentazone	SOLID	#N/A	mg/kg	mg/kg																
2642-71-9	Azinphos-ethyl	SOLID	#N/A	mg/kg	ug/kg																
2921-88-2	Chlorpyrifos	SOLID	#N/A	mg/kg	ug/kg																
29232-93-7	Pirimiphos Methyl	SOLID	#N/A	mg/kg	ug/kg																
297-78-9	Telodrin	SOLID	#N/A	mg/kg	ug/kg																
298-00-0	Methyl Parathion	SOLID	#N/A	mg/kg	ug/kg																
298-01-1	Mevinphos	SOLID	#N/A	mg/kg	ug/kg																
298-04-4	Disulfoton SUBCON OCP Alcontrol	SOLID	#N/A	mg/kg	ug/kg																
29973-13-5	Ethiofencarb	SOLID	#N/A	mg/kg	mg/kg																
30667-99-3	o,p-Methoxychlor	SOLID	#N/A	mg/kg	ug/kg																
309-00-2	Aldrin SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																
31218-83-4	Propetamphos	SOLID	#N/A	mg/kg	ug/kg																
314-40-9	Bromacil	SOLID	#N/A	mg/kg	mg/kg																
319-84-6	alpha-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																
	beta-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																
319-85-7		SOLID	#N/A	mg/kg	ug/kg																
330-54-1	Diuron SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																
330-55-2	Linuron	SOLID	#N/A	mg/kg	mg/kg																
33213-65-9	Endosulphan II	SOLID	#N/A	mg/kg	ug/kg																
333-41-5	Diazinon	SOLID	#N/A	mg/kg	ug/kg																
34123-59-6	Isoproturon	SOLID	#N/A	mg/kg	mg/kg																
34205-21-5	Dimefuron	SOLID	#N/A	mg/kg	mg/kg																
3424-82-6	o,p-DDE	SOLID	#N/A	mg/kg	ug/kg																
35367-38-5	Diflufenzuron	SOLID	#N/A	mg/kg	mg/kg																
698836	Benazolin	SOLID	#N/A	mg/kg	mg/kg																
38260-54-7	Etrimpfos	SOLID	#N/A	mg/kg	ug/kg																
40483-25-2	Diclofop	SOLID	#N/A	mg/kg	mg/kg																
40487-42-1	Pendimethalin	SOLID	#N/A	mg/kg	ug/kg																
43121-43-3	Triadimefon	SOLID	#N/A	mg/kg	ug/kg																
465-73-6	Isodrin	SOLID	#N/A	mg/kg	ug/kg																
470-90-6	Chlorfenvinphos	SOLID	#N/A	mg/kg	ug/kg																
50-29-3	p,p-DDT SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																
50-31-7	2,3,6-TBA	SOLID	#N/A	mg/kg	mg/kg																
5103-71-9	cis-Chlordane SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																
5103-74-2	trans-Chlordane SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																
51630-58-1	Fenvalerate SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																
52315-07-8	Cypermethrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																
52645-53-1	Permethrin SUBCON RPS MH Pyrethroids	SOLID	#N/A	mg/kg	mg/kg																
52756-22-6	Fiamprop-isopropyl	SOLID	#N/A	mg/kg	mg/kg																
52918-63-5	Deltamethrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																
53-19-0	o,p-TDE (DDD)	SOLID	#N/A	mg/kg	ug/kg																
55335-06-3	Triclopyr	SOLID	#N/A	mg/kg	mg/kg																
55-38-9	Fenthion	SOLID	#N/A	mg/kg	ug/kg																
563-12-2	Ethion	SOLID	#N/A	mg/kg	ug/kg																
56-38-2	Parathion (Ethyl Parathion)	SOLID	#N/A	mg/kg	ug/kg																
58667-63-3	Fiamprop	SOLID	#N/A	mg/kg	mg/kg																

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Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	ARP16-CP-TP20	ARP16-CP-TP23	ARP16-CP-TP32	ARP16-CP-TP35	ARP16-CP-TP39	ARP16-CP-TP40	ARP16-CP-TP41	ARP16-CP-TP43	ARP16-CP-TP44	ARP16-CP-TP44	ARP16-CP-TP45	ARP16-CP-TP46	ARP16-CP-TP46	ARP16-CP-TP49	ARP16-CP-TP49	ARP16-CP-TP49	ARP16-CP-TP51	ARP16-CP-TP52	ARP16-CP-TP52	ARP16-CP-TP52
						1.00	0.30	0.10	0.20	0.20	0.10	0.10	0.20	0.00	2.00	0.10	0.05	0.30	0.00	0.25	1.80	0.10	0.00	0.45	1.65
Sample Top	Lookup soil	Sample Ref	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
58-89-9	gamma-Hexachlorocyclohexane (HCH / Lindane)	SOLID	#N/A	mg/kg	ug/kg																				
5915-41-3	Terbutylazine SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																				
60-51-5	Dimethoate	SOLID	#N/A	mg/kg	ug/kg																				
60-57-1	Dieldrin SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																				
61949-76-6	Permethrin I (cis) SUBCON Alcontrol OCP	SOLID	#N/A	mg/kg	ug/kg																				
61949-77-7	Permethrin II (trans) SUBCON Alcontrol OCP	SOLID	#N/A	mg/kg	ug/kg																				
62-73-7	Dichlorvos	SOLID	#N/A	mg/kg	ug/kg																				
639-58-7	Triphenyltin SUBCON I2	SOLID	#N/A	mg/kg	ug/kg																				
66063-05-6	Pencycuron	SOLID	#N/A	mg/kg	mg/kg																				
68085-85-8	Cyhalothrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																				
683-18-1	Dibutyltin Subcon I2	SOLID	#N/A	mg/kg	ug/kg																				
68359-37-5	Cyfluthrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																				
72-20-8	Endrin SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																				
72-54-8	p,p-TDE (DDD)	SOLID	#N/A	mg/kg	ug/kg																				
72-55-9	p,p-DDE	SOLID	#N/A	mg/kg	ug/kg																				
7287-19-6	Prometryn SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																				
76-44-8	Heptachlor SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																				
786-19-6	Carbophenothion	SOLID	#N/A	mg/kg	ug/kg																				
789-02-6	o,p-DDT SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																				
81406-37-3	Fluroxypyr	SOLID	#N/A	mg/kg	mg/kg																				
82-68-8	Quintozene; (PCNB)	SOLID	#N/A	mg/kg	ug/kg																				
834-12-8	Ametryn SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																				
86-50-0	Azinphos-methyl	SOLID	#N/A	mg/kg	ug/kg																				
886-50-0	Terbutryn SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																				
93-65-2	MCCPP; (Mecoprop)	SOLID	#N/A	mg/kg	mg/kg																				
93-72-1	2,4,5-TP; (Fenoprop); (Silvex)	SOLID	#N/A	mg/kg	mg/kg																				
93-76-5	2,4,5-T	SOLID	#N/A	mg/kg	mg/kg																				
94-74-6	MCPA	SOLID	#N/A	mg/kg	mg/kg																				
94-75-7	2,4-D	SOLID	#N/A	mg/kg	mg/kg																				
94-81-5	MCPB	SOLID	#N/A	mg/kg	mg/kg																				
94-82-6	2,4-DB	SOLID	#N/A	mg/kg	mg/kg																				
959-98-8	Endosulphan I	SOLID	#N/A	mg/kg	ug/kg																				
P1362	TPH Aromatic >C35-C44	SOLID	657.18	mg/kg	mg/kg																				
P1415	TPH Aliphatic >C35-C44	SOLID	6927070.30	mg/kg	mg/kg																				
120-12-7	Anthracene	SOLID	0.16	mg/kg	ug/kg																				
129-00-0	Pyrene	SOLID	1.88	mg/kg	ug/kg																				
191-24-2	Benzo(g,h,i)perylene	SOLID	2.42	mg/kg	ug/kg																				
193-39-5	Indeno(1,2,3-cd)pyrene	SOLID	0.51	mg/kg	ug/kg																				
205-99-2	Benzo(b)fluoranthene	SOLID	0.61	mg/kg	ug/kg																				
206-44-0	Fluoranthene	SOLID	0.01	mg/kg	ug/kg																				
207-08-9	Benzo(k)fluoranthene	SOLID	0.86	mg/kg	ug/kg																				
208-96-8	Acenaphthylene	SOLID	1.01	mg/kg	ug/kg																				
218-01-9	Chrysene	SOLID	6.38	mg/kg	ug/kg																				
50-32-8	Benzo(a)pyrene	SOLID	0.07	mg/kg	ug/kg																				
53-70-3	Dibenzo(a,h)anthracene	SOLID	10.80	mg/kg	ug/kg																				
56-55-3	Benzo(a)anthracene	SOLID	4.50	mg/kg	ug/kg																				
83-32-9	Acenaphthene	SOLID	965.39	mg/kg	ug/kg																				
85-01-8	Phenanthrene	SOLID	3.35	mg/kg	ug/kg																				
86-73-7	Fluorene	SOLID	1.76	mg/kg	ug/kg																				
91-20-3	Napthalene	SOLID	0.08	mg/kg	ug/kg																				
302-04-5	Thiocyanate	SOLID	62.96	mg/kg	mg/kg																				
P1879	Xylenols	SOLID - INITIAL	2.39	mg/kg	mg/kg																				
P2098	Cresols	SOLID - INITIAL	0.54	mg/kg	mg/kg																				
12001-28-4	Asbestos: Crocidolite	SOLID - INITIAL	#N/A	mg/kg	No units																				
12001-29-5	Asbestos: Chrysotile	SOLID - INITIAL	#N/A	mg/kg	No units																				
12172-67-7	Asbestos: Actinolite	SOLID - INITIAL	#N/A	mg/kg	No units																				
12172-73-5	Asbestos: Amosite	SOLID - INITIAL	#N/A	mg/kg	No units																				
14567-73-8	Asbestos: Tremolite	SOLID - INITIAL	#N/A	mg/kg	No units																				
17068-78-9	Asbestos: Anthophyllite	SOLID - INITIAL	#N/A	mg/kg	No units																				
1002-53-5	Dibutyl Tin	SOLID - INITIAL	0.00	mg/kg	mg/kg																				
1461-22-9	Tributyltin	SOLID - INITIAL	0.00	mg/kg	mg/kg																				
1461-25-2	Tetraethyl Tin	SOLID - INITIAL	0.00	mg/kg	mg/kg																				
1634-04-4	Methyl tert-butyl ether (MTBE)	SOLID - INITIAL	#N/A	mg/kg	ug/kg																				
1746-01-6	2,3,7,8-Tetrachlorodibenzo-p-dioxin	SOLID - INITIAL	#N/A	mg/kg	ng/g																				
181274-15-7	Propoxycarbazono-sodium	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-P-Dioxin	SOLID - INITIAL	94064.99	mg/kg	ng/g																				
298-02-2	Phorate	SOLID - INITIAL	#N/A	mg/kg	ug/kg																				

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Hole Ref	ARP16-CP-TP20	ARP16-CP-TP23	ARP16-CP-TP32	ARP16-CP-TP35	ARP16-CP-TP39	ARP16-CP-TP40	ARP16-CP-TP41	ARP16-CP-TP43	ARP16-CP-TP44	ARP16-CP-TP44	ARP16-CP-TP45	ARP16-CP-TP46	ARP16-CP-TP46	ARP16-CP-TP49	ARP16-CP-TP49	ARP16-CP-TP49	ARP16-CP-TP51	ARP16-CP-TP52	ARP16-CP-TP52	ARP16-CP-TP52
Sample Top	1.00	0.30	0.10	0.20	0.20	0.10	0.10	0.20	0.00	2.00	0.10	0.05	0.30	0.00	0.25	1.80	0.10	0.00	0.45	1.65
Lookup soil	HEAD	CWF	TS	TS	TS	TS	TS	CHK	MG	MG	TS	MG	CWF	MG	MG	MG	TS	MG	MG	MG
Sample Ref	2	2	1	1	1	1	1	1	1	3	1	1	2	1	2	5	1	1	2	4
Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES

Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	ARP16-CP-TP20	ARP16-CP-TP23	ARP16-CP-TP32	ARP16-CP-TP35	ARP16-CP-TP39	ARP16-CP-TP40	ARP16-CP-TP41	ARP16-CP-TP43	ARP16-CP-TP44	ARP16-CP-TP44	ARP16-CP-TP45	ARP16-CP-TP46	ARP16-CP-TP46	ARP16-CP-TP49	ARP16-CP-TP49	ARP16-CP-TP49	ARP16-CP-TP51	ARP16-CP-TP52	ARP16-CP-TP52	ARP16-CP-TP52	
31508-00-6	PCB-118 2,3',4,4',5 - Pentachlorobiphenyl	SOLID - INITIAL	694.02	mg/kg	ng/g																					
32598-13-3	PCB 77	SOLID - INITIAL	6185.41	mg/kg	ng/g																					
32598-14-4	PCB 105	SOLID - INITIAL	8940.63	mg/kg	ng/g																					
3268-87-9	Octachlorodibenzo-p-dioxin	SOLID - INITIAL	91923.81	mg/kg	ng/g																					
32774-16-6	PCB 169	SOLID - INITIAL	37270.75	mg/kg	ng/g																					
3380-34-5	Triclosan	SOLID - INITIAL	0.33	mg/kg	mg/kg																					
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-P-Dioxin	SOLID - INITIAL	91923.81	mg/kg	ng/g																					
38380-08-4	PCB-156 2,3,3,4,4,5 - Hexachlorobiphenyl	SOLID - INITIAL	3172.26	mg/kg	ng/g																					
39001-02-0	Octachlorodibenzofuran	SOLID - INITIAL	46180.43	mg/kg	ng/g																					
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-P-Dioxin	SOLID - INITIAL	36595.53	mg/kg	ng/g																					
39635-31-9	PCB 189	SOLID - INITIAL	270002.64	mg/kg	ng/g																					
40321-76-4	1,2,3,7,8-Pentachlorodibenzo-P-Dioxin	SOLID - INITIAL	#N/A	mg/kg	ng/g																					
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	SOLID - INITIAL	393.06	mg/kg	ng/g																					
52645-53-1	Permethrin	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					
52663-72-6	PCB 167	SOLID - INITIAL	45853.03	mg/kg	ng/g																					
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	SOLID - INITIAL	9648.46	mg/kg	ng/g																					
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	SOLID - INITIAL	964.85	mg/kg	ng/g																					
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	SOLID - INITIAL	715.25	mg/kg	ng/g																					
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	SOLID - INITIAL	715.25	mg/kg	ng/g																					
57465-28-8	PCB 126	SOLID - INITIAL	8940.63	mg/kg	ng/g																					
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-P-Dioxin	SOLID - INITIAL	91923.81	mg/kg	ng/g																					
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofura	SOLID - INITIAL	715.25	mg/kg	ng/g																					
62476-59-9	Acifluorfen	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
65510-44-3	PCB 123	SOLID - INITIAL	8940.63	mg/kg	ng/g																					
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	SOLID - INITIAL	715.25	mg/kg	ng/g																					
69782-90-7	PCB 157	SOLID - INITIAL	45853.03	mg/kg	ng/g																					
70362-50-4	PCB 81	SOLID - INITIAL	8940.63	mg/kg	ng/g																					
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	SOLID - INITIAL	715.25	mg/kg	ng/g																					
7085-19-0	mecoprop	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
72-43-5	Methoxychlor	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	SOLID - INITIAL	#N/A	mg/kg	ng/g																					
74472-37-0	PCB 114	SOLID - INITIAL	8940.63	mg/kg	ng/g																					
88-85-7	Dinoseb	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
892-20-6	Triphenyltin	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
P1330	BTEX	SOLID - INITIAL	0.00	mg/kg	ug/kg																					
P1354	TPH Aromatic >C6-C7	SOLID - INITIAL	0.05	mg/kg	ug/kg																					
P1355	TPH Aromatics > C7-C8	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					
P1356	Aromatics >C8-10	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					
P1357	Aromatics >C10-12	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					
P1358	Aromatics >C12-16	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					
P1359	Aromatics >C16-21	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					
P1360	Aromatics >C21-35	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					
P1362	Aromatics >C35-44	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					
P1407	Aliphatics >C5-6	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					
P1408	Aliphatics >C6-8	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					
P1409	Aliphatics >C8-10	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					
P1410	Aliphatics >C10-12	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					
P1411	Aliphatics >C12-16	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					
P1412	Aliphatics >C16-21	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					
P1413	Aliphatics >C21-35	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					
P1415	Aliphatics >C35-44	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					
15541-45-4	Bromate	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
16065-83-1	Trivalent Chromium	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
16887-00-6	Chloride	SOLID - INITIAL	268.18	mg/kg	mg/kg																					
16984-48-8	Fluoride	SOLID - INITIAL	0.41	mg/kg	mg/kg																					
18496-25-8	Sulphide	SOLID - INITIAL	#VALUE!	mg/kg	mg/kg																					
24959-67-9	Bromide	SOLID - INITIAL	#VALUE!	mg/kg	mg/kg																					
7439-89-6	Iron	SOLID - INITIAL	44.05	mg/kg	mg/kg																					
7439-95-4	Magnesium	SOLID - INITIAL	0.00	mg/kg	mg/kg																					
7439-98-7	Molybdenum	SOLID - INITIAL	0.10	mg/kg	mg/kg																					
2023695	Potassium	SOLID - INITIAL	0.00	mg/kg	mg/kg																					
7440-23-5	Sodium	SOLID - INITIAL	263.64	mg/kg	mg/kg																					
7440-70-2	Calcium	SOLID - INITIAL	0.00	mg/kg	mg/kg																					
P1238	Ammoniacal Nitrogen as N	SOLID - INITIAL	0.11	mg/kg	mg/kg																					
P1286	Manganese	SOLID - INITIAL	2.51	mg/kg	mg/kg																					
100-01-6	4-Nitroaniline	SOLID - INITIAL	0.00	mg/kg	ug/kg																					
101-55-3	4-Bromophenyl Phenyl Ether	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					

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					Hole Ref	ARP16-CP-TP20	ARP16-CP-TP23	ARP16-CP-TP32	ARP16-CP-TP35	ARP16-CP-TP39	ARP16-CP-TP40	ARP16-CP-TP41	ARP16-CP-TP43	ARP16-CP-TP44	ARP16-CP-TP44	ARP16-CP-TP45	ARP16-CP-TP46	ARP16-CP-TP46	ARP16-CP-TP49	ARP16-CP-TP49	ARP16-CP-TP49	ARP16-CP-TP51	ARP16-CP-TP52	ARP16-CP-TP52	ARP16-CP-TP52
					Sample Top	1.00	0.30	0.10	0.20	0.20	0.10	0.10	0.20	0.00	2.00	0.10	0.05	0.30	0.00	0.25	1.80	0.10	0.00	0.45	1.65
					Lookup soil	HEAD	CWF	TS	TS	TS	TS	TS	CHK	MG	MG	TS	MG	CWF	MG	MG	MG	TS	MG	MG	MG
					Sample Ref	2	2	1	1	1	1	1	1	1	3	1	1	2	1	2	5	1	1	2	4
Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	
103-33-3	Azobenzene	SOLID - INITIAL	0.38	mg/kg	ug/kg																				
106-47-8	4-Chloroaniline	SOLID - INITIAL	0.01	mg/kg	ug/kg																				
700-57-23	4-Chlorophenylphenylether	SOLID - INITIAL	#N/A	mg/kg	ug/kg																				
88-74-4	2-Nitroaniline	SOLID - INITIAL	0.01	mg/kg	ug/kg																				
99-09-2	3-Nitroaniline	SOLID - INITIAL	#N/A	mg/kg	ug/kg																				
994-05-8	Tertiary Amyl Methyl Ether	SOLID - INITIAL	#N/A	mg/kg	ug/kg																				
1336-36-6	PCB Total (WAC only)	SOLID	#N/A	mg/kg	mg/kg																				
P1330	BTEX (total) WAC	SOLID	#N/A	mg/kg	mg/kg																				

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G2 RTM Level 1 - Soils

Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	Hole Ref																				
						ARP16-LF-BH01	ARP16-LF-BH01	ARP16-LF-BH01	ARP16-LF-BH01	ARP16-LF-BH02	ARP16-LF-BH02	ARP16-LF-BH02	ARP16-LF-BH03	ARP16-LF-BH03	ARP16-LF-BH03	ARP16-LF-BH03	ARP16-LF-BH04	ARP16-LF-BH04	ARP16-LF-BH04	ARP16-LF-BH04	ARP16-LF-BH04	ARP16-LF-BH04	ARP16-LF-BH05	ARP16-LF-BH05		
						Sample Top	0.10	0.50	1.00	5.50	1.30	4.30	6.00	0.80	3.00	6.00	9.50	0.90	10.50	13.50	17.80	2.50	5.50	8.80	0.10	2.90
						Lookup soil	MG	MG	CWF	CKR	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	CHK	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF
						Sample Ref	1	2	3	4	1	2	3	1	2	3	4	1	5	6	8	2	3	4	1	2
						ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
100-41-4	Ethylbenzene	SOLID - INITIAL	0.53	mg/kg	mg/kg		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
108-88-3	Toluene	SOLID - INITIAL	0.88	mg/kg	mg/kg		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
120-12-7	Anthracene	SOLID - INITIAL	0.16	mg/kg	mg/kg		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.3	<0.02	0.1	<0.02	0.4	<0.02	0.6	<0.02	0.2	<0.02	0.1	<0.02	11.2
129-00-0	Pyrene	SOLID - INITIAL	1.88	mg/kg	mg/kg		0.2	0.2	<0.07	<0.07	0.1	<0.07	0.3	2.5	0.1	<0.07	<0.07	2.1	<0.07	2.8	<0.07	3.2	0.7	0.2	43.3	0.3
1330-20-7	Xylene	SOLID - INITIAL	0.23	mg/kg	mg/kg																					
191-24-2	Benzo(g,h,i)perylene	SOLID - INITIAL	2.42	mg/kg	mg/kg		0.1	0.1	<0.05	<0.05	0.1	<0.05	0.1	0.8	<0.05	<0.05	<0.05	0.6	<0.05	0.7	<0.05	2.0	0.3	0.1	9.7	0.2
193-39-5	Indeno(1,2,3-cd)pyrene	SOLID - INITIAL	0.51	mg/kg	mg/kg		0.2	0.1	<0.03	<0.03	0.1	<0.03	0.1	0.8	<0.03	<0.03	<0.03	0.6	<0.03	0.7	<0.03	2.4	0.3	0.1	11.9	0.3
205-99-2	Benzo(b)fluoranthene	SOLID - INITIAL	0.61	mg/kg	mg/kg		0.2	0.1	<0.05	<0.05	0.1	<0.05	0.2	1.2	<0.05	<0.05	<0.05	1.2	<0.05	1.6	<0.05	4.2	0.6	0.2	18.8	0.4
206-44-0	Fluoranthene	SOLID - INITIAL	0.01	mg/kg	mg/kg		0.2	0.2	<0.08	<0.08	0.2	<0.08	0.3	2.4	0.1	<0.08	<0.08	2.5	<0.08	4.5	<0.08	3.0	1.0	0.2	45.9	0.4
207-08-9	Benzo(k)fluoranthene	SOLID - INITIAL	0.86	mg/kg	mg/kg		0.1	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	0.4	<0.07	<0.07	<0.07	0.5	<0.07	0.5	<0.07	1.3	0.2	0.1	7.9	0.2
208-96-8	Acenaphthylene	SOLID - INITIAL	1.01	mg/kg	mg/kg		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.0	<0.01	<0.01	<0.01	0.0	<0.01	0.1	<0.01	0.0	0.0	<0.01	0.1	0.0
218-01-9	Chrysenes	SOLID - INITIAL	6.38	mg/kg	mg/kg		0.2	0.1	<0.06	<0.06	0.1	<0.06	0.2	1.1	<0.06	<0.06	<0.06	1.2	<0.06	1.5	<0.06	2.8	0.5	0.2	21.2	0.3
50-32-8	Benzo(a)pyrene	SOLID - INITIAL	0.07	mg/kg	mg/kg		0.2	0.1	<0.04	<0.04	0.1	<0.04	0.2	1.0	<0.04	<0.04	<0.04	1.1	<0.04	1.2	<0.04	3.5	0.5	0.2	18.5	0.3
53-70-3	Dibenzo(a,h)anthracene	SOLID - INITIAL	10.80	mg/kg	mg/kg		<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.1	<0.04	<0.04	<0.04	0.1	<0.04	0.2	<0.04	0.4	0.1	<0.04	2.9	0.1
56-55-3	Benzo(a)anthracene	SOLID - INITIAL	4.50	mg/kg	mg/kg		0.1	0.1	<0.04	<0.04	0.1	<0.04	0.1	1.3	0.1	<0.04	<0.04	1.2	<0.04	1.5	<0.04	2.7	0.5	0.2	24.4	0.3
57-12-5	Cyanide	SOLID - INITIAL	0.26	mg/kg	mg/kg					<1	<1	<1	<1	8.0	<1	<1	<1	21.0	3.0	<1	<1	2.0	<1	<1	<1	<1
71-43-2	Benzene	SOLID - INITIAL	0.0043	mg/kg	mg/kg			<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
7439-92-1	Lead	SOLID - INITIAL	10.00	mg/kg	mg/kg		54.0	38.0	21.0	3.0	24.0	2.0	88.0	62.0	64.0	21.0	3.0	112.0	76.0	342.0	23.0	59.0	312.0	21.0	60.0	36.0
7439-97-6	Mercury	SOLID - INITIAL	0.50	mg/kg	mg/kg		<0.17	<0.17	<0.17	0.9	<0.17	0.9	0.8	0.6	0.3	<0.17	1.2	0.8	0.2	0.6	<0.17	0.8	9.3	<0.17	<0.17	0.3
7440-02-0	Nickel	SOLID - INITIAL	10.01	mg/kg	mg/kg		24.0	25.0	32.0	9.0	10.0	4.0	11.0	16.0	32.0	26.0	22.0	22.0	56.0	97.0	35.0	32.0	43.0	26.0	12.0	13.0
7440-36-0	Antimony	SOLID - INITIAL	1.26	mg/kg	mg/kg					<5	<5	<5	<5	<5	<5	<5	<5	6.0	15.0	<5	<5	8.0	<5	<5	<5	<5
7440-38-2	Arsenic	SOLID - INITIAL	5.00	mg/kg	mg/kg		8.0	7.0	5.0	<1	3.0	<1	2.0	6.0	10.0	10.0	<1	9.0	58.0	57.0	8.0	11.0	15.0	8.0	3.0	5.0
7440-41-7	Beryllium	SOLID - INITIAL	5.04	mg/kg	mg/kg					<1	<1	<1	1.0	1.0	1.0	<1	1.0	4.0	8.0	2.0	1.0	2.0	1.0	1.0	1.0	1.0
7440-42-8	Boron	SOLID - INITIAL	8.69	mg/kg	mg/kg					<1.0	<1.0	<1.0	2.8	<1.0	2.8	<1.0	1.6	8.6	20.0	2.8	2.5	4.7	5.1	<1.0	<1.0	<1.0
7440-43-9	Cadmium	SOLID - INITIAL	0.50	mg/kg	mg/kg		2.5	2.0	2.3	0.6	<0.5	<0.5	1.0	1.2	2.1	2.1	0.6	1.4	2.1	3.8	2.2	1.6	3.7	1.7	1.2	1.2
7440-47-3	Chromium	SOLID - INITIAL	315.49	mg/kg	mg/kg		33.0	25.0	30.0	10.0	15.0	3.0	12.0	21.0	28.0	45.0	11.0	21.0	29.0	42.0	47.0	31.0	83.0	30.0	11.0	20.0
7440-50-8	Copper	SOLID - INITIAL	1002.92	mg/kg	mg/kg		19.0	17.0	19.0	6.0	4.0	3.0	19.0	19.0	19.0	13.0	6.0	174.0	86.0	438.0	21.0	35.0	127.0	8.0	32.0	20.0
7440-62-2	Vanadium	SOLID - INITIAL	1.01	mg/kg	mg/kg					4.0	3.0	14.0	37.0	37.0	44.0	16.0	32.0	57.0	78.0	55.0	43.0	34.0	34.0	33.0	27.0	27.0
7440-66-6	Zinc	SOLID - INITIAL	2507.30	mg/kg	mg/kg		90.0	72.0	66.0	26.0	17.0	18.0	76.0	82.0	241.0	87.0	30.0	200.0	149.0	347.0	90.0	121.0	257.0	68.0	64.0	51.0
7782-49-2	Selenium	SOLID - INITIAL	0.50	mg/kg	mg/kg		2.0	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	3.0	3.0	2.0	<1	<1	<1	<1	<1	<1
83-32-9	Acenaphthene	SOLID - INITIAL	965.39	mg/kg	mg/kg		<0.01	0.0	<0.01	<0.01	<0.01	<0.01	0.0	0.1	0.0	<0.01	<0.01	0.1	<0.01	0.1	<0.01	0.1	0.1	<0.01	5.0	<0.01
85-01-8	Phenanthrene	SOLID - INITIAL	3.35	mg/kg	mg/kg		0.1	0.1	<0.03	<0.03	<0.03	<0.03	0.1	0.9	0.1	0.0	<0.03	1.0	<0.03	2.5	<0.03	0.6	0.4	0.1	32.7	0.1
86-73-7	Fluorene	SOLID - INITIAL	1.76	mg/kg	mg/kg		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.0	0.0	0.0	<0.01	<0.01	0.1	<0.01	0.3	<0.01	0.1	0.1	<0.01	3.4	<0.01
91-20-3	Napthalene	SOLID - INITIAL	0.08	mg/kg	mg/kg		<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.1	0.3	<0.03	0.1	0.0	<0.03	0.3	<0.03	<0.03
P1186	Phenol	SOLID - INITIAL	0.04	mg/kg	mg/kg					<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
P1310	Pah, Total	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
P1334	pH	SOLID - INITIAL	#N/A	mg/kg	pH Units																					
P1355	TPH Aromatic >C7-C8	SOLID - INITIAL	10.42	mg/kg	mg/kg			<0.01	<0.01	<0.01				<0.01					<0.01	<0.01			<0.01			
P1356	TPH Aromatic >C8-C10	SOLID - INITIAL	219.16	mg/kg	mg/kg																					
P1357	TPH Aromatic >C10-C12	SOLID - INITIAL	16.54	mg/kg	mg/kg			<0.1	<0.1	<0.1			1.3		<0.1				1.7	9.9	<0.1			6.9		
P1358	TPH Aromatic >C12-C16	SOLID - INITIAL	32.96	mg/kg	mg/kg			<0.1	<0.1	<0.1			10.8		<0.1				7.4	10.0	<0.1			15.9		
P1359	TPH Aromatic >C16-C21	SOLID - INITIAL	82.76	mg/kg	mg/kg			<0.1	<0.1	<0.1			9.3		<0.1				41.3	26.3	<0.1			46.0		
P1360	TPH Aromatic >C21-C35	SOLID - INITIAL	657.18	mg/kg	mg/kg			<0.1	<0.1	<0.1			19.5</													

Appendix G

G2 RTM Level 1 - Soils

Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	Hole Ref																						
						ARP16-LF-BH01	ARP16-LF-BH01	ARP16-LF-BH01	ARP16-LF-BH01	ARP16-LF-BH02	ARP16-LF-BH02	ARP16-LF-BH02	ARP16-LF-BH03	ARP16-LF-BH03	ARP16-LF-BH03	ARP16-LF-BH03	ARP16-LF-BH04	ARP16-LF-BH04	ARP16-LF-BH04	ARP16-LF-BH04	ARP16-LF-BH04	ARP16-LF-BH04	ARP16-LF-BH05	ARP16-LF-BH05				
						Sample Top	0.10	0.50	1.00	5.50	1.30	4.30	6.00	0.80	3.00	6.00	9.50	0.90	10.50	13.50	17.80	2.50	5.50	8.80	0.10	2.90		
						Lookup soil	MG	MG	CWF	CKR	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	CHK	MG-LF	MG-LF	MG-LF	HEAD	MG-LF	MG-LF	MG-LF	MG	MG		
						Sample Ref	1	2	3	4	1	2	3	1	2	3	4	1	5	6	8	2	3	4	1	2		
						Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES		
71-55-6	1,1,1-Trichloroethane	SOLID	#N/A	mg/kg	ug/kg				<1				<1		<1			<1		<1	<1							
7440-39-3	Barium	SOLID	78.73	mg/kg	mg/kg																							
74-83-9	Bromomethane	SOLID	#N/A	mg/kg	ug/kg				<1				<1		<1			<1		<1	<1							
74-87-3	Chloromethane	SOLID	0.02	mg/kg	ug/kg				<10				<10		<10			<10		<10	<10							
74-95-3	Dibromomethane	SOLID	#N/A	mg/kg	ug/kg				<1				<1		<1			<1		<1	<1							
74-97-5	Bromochloromethane	SOLID	#N/A	mg/kg	ug/kg				<5				<5		<5			<5		<5	<5							
75-00-3	Chloroethane	SOLID	#N/A	mg/kg	ug/kg				<1				<1		<1			<1		<1	<1							
75-01-4	Vinyl Chloride	SOLID	#N/A	mg/kg	ug/kg				<1				<1		<1			<1		<1	<1							
75-09-2	Dichloromethane	SOLID	0.03	mg/kg	ug/kg				<5				<5		<5			<5		<5	<5							
75-15-0	Carbon Disulphide	SOLID	0.07	mg/kg	ug/kg				<1				1.0		<1			<1		4.0	2.0			9.0				
75-25-2	Bromoform	SOLID	#N/A	mg/kg	ug/kg				<1				<1		<1			<1		<1	<1							
75-27-4	Bromodichloromethane	SOLID	#N/A	mg/kg	ug/kg				<10				<10		<10			<10		<10	<10							
75-34-3	1,1-Dichloroethane	SOLID	0.01	mg/kg	ug/kg				<1				<1		<1			<1		<1	<1							
75-35-4	1,1-Dichloroethene	SOLID	#N/A	mg/kg	ug/kg				<1				<1		<1			<1		<1	<1							
75-69-4	Trichlorofluoromethane	SOLID	0.05	mg/kg	ug/kg				<1				<1		<1			<1		<1	<1							
75-71-8	Dichlorodifluoromethane	SOLID	#N/A	mg/kg	ug/kg				<1				<1		<1			<1		<1	<1							
77-47-4	Hexachlorocyclopentadiene	SOLID	#N/A	mg/kg	ug/kg				<100				<100		<100			<100		<100	<100							
78-59-1	Isophorone	SOLID	22.26	mg/kg	ug/kg				<100				<100		<100			<100		<100	<100							
78-87-5	1,2-Dichloropropane	SOLID	#N/A	mg/kg	ug/kg				<1				<1		<1			<1		<1	<1							
79-00-5	1,1,2-Trichloroethane	SOLID	#N/A	mg/kg	ug/kg				<1				<1		<1			<1		<1	<1							
79-01-6	Trichloroethene	SOLID	0.09	mg/kg	ug/kg				<1				<1		<1			<1		<1	<1							
79-34-5	1,1,2,2-Tetrachloroethane	SOLID	2.66	mg/kg	ug/kg				<1				<1		<1			<1		<1	<1							
84-66-2	Diethyl phthalate	SOLID	3.11	mg/kg	ug/kg				<100				<100		<100			<100		<100	<100							
84-74-2	Di-N-Butyl Phthalate	SOLID	0.52	mg/kg	ug/kg				<100				<100		<100			<100		321.0	<100			2300.0				
85-68-7	Butylbenzyl phthalate	SOLID	23.36	mg/kg	ug/kg				<100				<100		<100			<100		<100	<100							
86-74-8	Carbazole	SOLID	0.01	mg/kg	ug/kg				<100				<100		<100			<100		194.0	<100			<100				
87-61-6	1,2,3-Trichlorobenzene	SOLID	#N/A	mg/kg	ug/kg				<3				<3		<3			<3		<3	<3							
87-68-3	Hexachlorobutadiene	SOLID	#N/A	mg/kg	ug/kg				<1				<1		<1			<1		<1	<1							
87-86-5	Pentachlorophenol	SOLID	2.17	mg/kg	ug/kg				<100				<100		<100			<100		<100	<100							
88-06-2	2,4,6-Trichlorophenol	SOLID	#N/A	mg/kg	ug/kg				<100				<100		<100			<100		<100	<100							
88-75-5	2-Nitrophenol	SOLID	0.03	mg/kg	ug/kg				<100				<100		<100			<100		<100	<100							
91-57-6	2-Methylnaphthalene (SVOC) DEFAULT	SOLID	0.84	mg/kg	ug/kg				<100				<100		<100			<100		<100	<100							
91-58-7	2-Chloronaphthalene	SOLID	0.92	mg/kg	ug/kg				<100				<100		<100			<100		<100	<100							
95-47-6	Xylene	SOLID	0.23	mg/kg	ug/kg				<1				<1		<1			<1		<1	<1			1.0				
95-48-7	2-Methylphenol	SOLID	0.54	mg/kg	ug/kg				<100				<100		<100			<100		316.0	<100			<100				
95-49-8	2-Chlorotoluene	SOLID	#N/A	mg/kg	ug/kg				<1				<1		<1			<1		<1	<1							
95-50-1	1,2-Dichlorobenzene	SOLID	40.42	mg/kg	ug/kg				<1				<1		<1			<1		<1	<1							
95-57-8	2-Chlorophenol	SOLID	#N/A	mg/kg	ug/kg				<100				<100		<100			<100		<100	<100							
95-63-6	1,2,4-Trimethylbenzene	SOLID	0.25	mg/kg	ug/kg				<1				<1		<1			<1		1.0	<1			1.0				
95-95-4	2,4,5-Trichlorophenol	SOLID	60.93	mg/kg	ug/kg				<100				<100		<100			<100		<100	<100							
96-12-8	1,2-Dibromo-3-chloropropane	SOLID	#N/A	mg/kg	ug/kg				<2				<2		<2			<2		<2	<2							
96-18-4	1,2,3-Trichloropropane	SOLID	0.44	mg/kg	ug/kg				<1				<1		<1			<1		<1	<1							
98-06-6	tert-Butylbenzene	SOLID	0.75	mg/kg	ug/kg				<2				<2		<2			<2		<2	<2							
98-82-8	Isopropylbenzene	SOLID	0.27	mg/kg	ug/kg				<1				<1		<1			<1		<1	<1			1.0				
98-95-3	Nitrobenzene	SOLID	0.00	mg/kg	ug/kg				<100				<100		<100			<100		<100	<100							
99-87-6	4-Isopropyltoluene	SOLID	54.06	mg/kg	ug/kg				<1				32.0		<1			<1		<1	<1							
P1374	Xylene	SOLID	0.23	mg/kg	ug/kg				<1				<1		<1			<1		1.0	<1			6.0				
P1762	TPH Aromatic >C8-C10	SOLID	219.16	mg/kg	mg/kg				<0.01				<0.01		<0.01			<0.01		<0.05	<0.05			0.1				
P1763	TPH Aromatic >C8-C10	SOLID	219.16	mg/kg	mg/kg				<0.01				<0.01		<0.01			<0.01		0.2	<0.05	<0.01		0.1				
P1334	pH	SOLID	#N/A	mg/kg	pH				7.1	7.7	7.8	8.2	8.5	8.4	8.2	10.9	8.1	8.0	8.4	8.1	8.6	8.4	8.4	8.2	8.0	8.7	9.2	7.8
101-21-3	Chlorpropham	SOLID	#N/A	mg/kg	mg/kg								<0.1											<0.1				
1014-70-6	Simetryn SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg								<50											<50				
1024-57-3	Heptachlor Epoxide	SOLID	#N/A	mg/kg	ug/kg								<50											<50				
1031-07-8	Endosulphan Sulphate	SOLID	#N/A	mg/kg	ug/kg								<50											<50				
117-18-0	Tecnazene	SOLID	#N/A	mg/kg	ug/kg								<50											<50				
120-36-5	2,4-DP; (Dichlorprop)	SOLID	#N/A	mg/kg	mg/kg																							

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Hole Ref	ARP16-LF-BH01	ARP16-LF-BH01	ARP16-LF-BH01	ARP16-LF-BH01	ARP16-LF-BH02	ARP16-LF-BH02	ARP16-LF-BH02	ARP16-LF-BH03	ARP16-LF-BH03	ARP16-LF-BH03	ARP16-LF-BH03	ARP16-LF-BH04	ARP16-LF-BH04	ARP16-LF-BH04	ARP16-LF-BH04	ARP16-LF-BH04	ARP16-LF-BH04	ARP16-LF-BH04	ARP16-LF-BH05	ARP16-LF-BH05	
Sample Top	0.10	0.50	1.00	5.50	1.30	4.30	6.00	0.80	3.00	6.00	9.50	0.90	10.50	13.50	17.80	2.50	5.50	8.80	0.10	2.90	
Lookup soil	MG	MG	CWF	CKR	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	CHK	MG-LF	MG-LF	MG-LF	HEAD	MG-LF	MG-LF	MG-LF	MG	MG	
Sample Ref	1	2	3	4	1	2	3	1	2	3	4	1	5	6	8	2	3	4	1	2	
Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	
1610-18-0	Prometon SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																<50
16118-49-3	Carbetamide	SOLID	#N/A	mg/kg	mg/kg																<0.1
1689-83-4	Ioxynil	SOLID	#N/A	mg/kg	mg/kg																<0.1
1689-84-5	Bromoxynil	SOLID	#N/A	mg/kg	mg/kg																<0.1
1702-17-6	Clopyralid	SOLID	#N/A	mg/kg	mg/kg																<0.1
1746-81-2	Monolinuron	SOLID	#N/A	mg/kg	mg/kg																<0.1
18691-97-9	Methabenzthiazuron	SOLID	#N/A	mg/kg	mg/kg																<0.1
1897-45-6	Chlorothalonil	SOLID	#N/A	mg/kg	ug/kg																<50
1912-24-9	Atrazine SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																<50
1918-00-9	Dicamba	SOLID	#N/A	mg/kg	mg/kg																<0.1
6607	Picloram	SOLID	#N/A	mg/kg	mg/kg																<0.1
1967-16-4	Chlorbufam	SOLID	#N/A	mg/kg	mg/kg																<0.1
1982-47-4	Chloroxuron	SOLID	#N/A	mg/kg	mg/kg																<0.1
19937-59-8	Metoxuron	SOLID	#N/A	mg/kg	mg/kg																<0.1
2132-70-9	p,p-Methoxychlor	SOLID	#N/A	mg/kg	ug/kg																<50
2274-67-1	Chlorpyrifos-methyl	SOLID	#N/A	mg/kg	ug/kg																<50
2303-17-5	Triallate	SOLID	#N/A	mg/kg	ug/kg																<50
2310-17-0	Phosalone	SOLID	#N/A	mg/kg	ug/kg																<50
23103-98-2	Pirimicarb	SOLID	#N/A	mg/kg	mg/kg																<0.1
24017-47-8	Triazophos	SOLID	#N/A	mg/kg	ug/kg																<50
25057-89-0	Bentazone	SOLID	#N/A	mg/kg	mg/kg																<0.1
2642-71-9	Azinphos-ethyl	SOLID	#N/A	mg/kg	ug/kg																<50
2921-88-2	Chlorpyrifos	SOLID	#N/A	mg/kg	ug/kg																<50
29232-93-7	Pirimiphos Methyl	SOLID	#N/A	mg/kg	ug/kg																<50
297-78-9	Telodrin	SOLID	#N/A	mg/kg	ug/kg																<50
298-00-0	Methyl Parathion	SOLID	#N/A	mg/kg	ug/kg																<50
298-01-1	Mevinphos	SOLID	#N/A	mg/kg	ug/kg																<50
298-04-4	Disulfoton SUBCON OCP Alcontrol	SOLID	#N/A	mg/kg	ug/kg																<50
29973-13-5	Ethiofencarb	SOLID	#N/A	mg/kg	mg/kg																<0.1
30667-99-3	o,p-Methoxychlor	SOLID	#N/A	mg/kg	ug/kg																<50
309-00-2	Aldrin SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																<50
31218-83-4	Propetamphos	SOLID	#N/A	mg/kg	ug/kg																<50
314-40-9	Bromacil	SOLID	#N/A	mg/kg	mg/kg																<0.1
319-84-6	alpha-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																<50
	beta-Hexachlorocyclohexane (HCH) SUBCON Alcontrol																				<50
319-85-7		SOLID	#N/A	mg/kg	ug/kg																<50
330-54-1	Diuron SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																<0.1
330-55-2	Linuron	SOLID	#N/A	mg/kg	mg/kg																<0.1
33213-65-9	Endosulphan II	SOLID	#N/A	mg/kg	ug/kg																<50
333-41-5	Diazinon	SOLID	#N/A	mg/kg	ug/kg																<50
34123-59-6	Isoproturon	SOLID	#N/A	mg/kg	mg/kg																<0.1
34205-21-5	Dimefuron	SOLID	#N/A	mg/kg	mg/kg																<0.1
3424-82-6	o,p-DDE	SOLID	#N/A	mg/kg	ug/kg																<50
35367-38-5	Diflufenzuron	SOLID	#N/A	mg/kg	mg/kg																<0.1
698836	Benazolin	SOLID	#N/A	mg/kg	mg/kg																<0.1
38260-54-7	Etrimephos	SOLID	#N/A	mg/kg	ug/kg																<50
40483-25-2	Diclofop	SOLID	#N/A	mg/kg	mg/kg																<0.1
40487-42-1	Pendimethalin	SOLID	#N/A	mg/kg	ug/kg																<50
43121-43-3	Triadimefon	SOLID	#N/A	mg/kg	ug/kg																<50
465-73-6	Isodrin	SOLID	#N/A	mg/kg	ug/kg																<50
470-90-6	Chlorfenvinphos	SOLID	#N/A	mg/kg	ug/kg																<50
50-29-3	p,p-DDT SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																<50
50-31-7	2,3,6-TBA	SOLID	#N/A	mg/kg	mg/kg																<0.1
5103-71-9	cis-Chlordane SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																<50
5103-74-2	trans-Chlordane SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																<50
51630-58-1	Fenvalerate SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																<0.1
52315-07-8	Cypermethrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																<0.1
52645-53-1	Permethrin SUBCON RPS MH Pyrethroids	SOLID	#N/A	mg/kg	mg/kg																<0.1
52756-22-6	Flamprop-isopropyl	SOLID	#N/A	mg/kg	mg/kg																<0.1
52918-63-5	Deltamethrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																<0.1
53-19-0	o,p-TDE (DDD)	SOLID	#N/A	mg/kg	ug/kg																<50
55335-06-3	Triclopyr	SOLID	#N/A	mg/kg	mg/kg																<0.1
55-38-9	Fenthion	SOLID	#N/A	mg/kg	ug/kg																<50
563-12-2	Ethion	SOLID	#N/A	mg/kg	ug/kg																<50
56-38-2	Parathion (Ethyl Parathion)	SOLID	#N/A	mg/kg	ug/kg																<50
58667-63-3	Fiamprop	SOLID	#N/A	mg/kg	mg/kg																<0.1

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Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	ARP16-LF-BH01	ARP16-LF-BH01	ARP16-LF-BH01	ARP16-LF-BH01	ARP16-LF-BH02	ARP16-LF-BH02	ARP16-LF-BH02	ARP16-LF-BH03	ARP16-LF-BH03	ARP16-LF-BH03	ARP16-LF-BH03	ARP16-LF-BH04	ARP16-LF-BH04	ARP16-LF-BH04	ARP16-LF-BH04	ARP16-LF-BH04	ARP16-LF-BH04	ARP16-LF-BH05	ARP16-LF-BH05
						0.10	0.50	1.00	5.50	1.30	4.30	6.00	0.80	3.00	6.00	9.50	0.90	10.50	13.50	17.80	2.50	5.50	8.80	0.10
Sample Top	Lookup soil	Sample Ref	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
58-89-9	gamma-Hexachlorocyclohexane (HCH / Lindane)	SOLID	#N/A	mg/kg	ug/kg																			
5915-41-3	Terbutylazine SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																			
60-51-5	Dimethoate	SOLID	#N/A	mg/kg	ug/kg																			
60-57-1	Dieldrin SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																			
61949-76-6	Permethrin I (cis) SUBCON Alcontrol OCP	SOLID	#N/A	mg/kg	ug/kg																			
61949-77-7	Permethrin II (trans) SUBCON Alcontrol OCP	SOLID	#N/A	mg/kg	ug/kg																			
62-73-7	Dichlorvos	SOLID	#N/A	mg/kg	ug/kg																			
639-58-7	Triphenyltin SUBCON I2	SOLID	#N/A	mg/kg	ug/kg																			
66063-05-6	Pencycuron	SOLID	#N/A	mg/kg	mg/kg																			
68085-85-8	Cyhalothrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																			
683-18-1	Dibutyltin Subcon I2	SOLID	#N/A	mg/kg	ug/kg																			
68359-37-5	Cyfluthrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																			
72-20-8	Endrin SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																			
72-54-8	p,p-TDE (DDD)	SOLID	#N/A	mg/kg	ug/kg																			
72-55-9	p,p-DDE	SOLID	#N/A	mg/kg	ug/kg																			
7287-19-6	Prometryn SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																			
76-44-8	Heptachlor SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																			
786-19-6	Carbophenothion	SOLID	#N/A	mg/kg	ug/kg																			
789-02-6	o,p-DDT SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																			
81406-37-3	Fluroxypyr	SOLID	#N/A	mg/kg	mg/kg																			
82-68-8	Quintozene; (PCNB)	SOLID	#N/A	mg/kg	ug/kg																			
834-12-8	Ametryn SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																			
86-50-0	Azinphos-methyl	SOLID	#N/A	mg/kg	ug/kg																			
886-50-0	Terbutryn SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																			
93-65-2	MCCPP; (Mecoprop)	SOLID	#N/A	mg/kg	mg/kg																			
93-72-1	2,4,5-TP; (Fenoprop); (Silvex)	SOLID	#N/A	mg/kg	mg/kg																			
93-76-5	2,4,5-T	SOLID	#N/A	mg/kg	mg/kg																			
94-74-6	MCPA	SOLID	#N/A	mg/kg	mg/kg																			
94-75-7	2,4-D	SOLID	#N/A	mg/kg	mg/kg																			
94-81-5	MCPB	SOLID	#N/A	mg/kg	mg/kg																			
94-82-6	2,4-DB	SOLID	#N/A	mg/kg	mg/kg																			
959-98-8	Endosulphan I	SOLID	#N/A	mg/kg	ug/kg																			
P1362	TPH Aromatic >C35-C44	SOLID	657.18	mg/kg	mg/kg																			
P1415	TPH Aliphatic >C35-C44	SOLID	6927070.30	mg/kg	mg/kg																			
120-12-7	Anthracene	SOLID	0.16	mg/kg	ug/kg																			
129-00-0	Pyrene	SOLID	1.88	mg/kg	ug/kg																			
191-24-2	Benzo(g,h,i)perylene	SOLID	2.42	mg/kg	ug/kg																			
193-39-5	Indeno(1,2,3-cd)pyrene	SOLID	0.51	mg/kg	ug/kg																			
205-99-2	Benzo(b)fluoranthene	SOLID	0.61	mg/kg	ug/kg																			
206-44-0	Fluoranthene	SOLID	0.01	mg/kg	ug/kg																			
207-08-9	Benzo(k)fluoranthene	SOLID	0.86	mg/kg	ug/kg																			
208-96-8	Acenaphthylene	SOLID	1.01	mg/kg	ug/kg																			
218-01-9	Chrysene	SOLID	6.38	mg/kg	ug/kg																			
50-32-8	Benzo(a)pyrene	SOLID	0.07	mg/kg	ug/kg																			
53-70-3	Dibenzo(a,h)anthracene	SOLID	10.80	mg/kg	ug/kg																			
56-55-3	Benzo(a)anthracene	SOLID	4.50	mg/kg	ug/kg																			
83-32-9	Acenaphthene	SOLID	965.39	mg/kg	ug/kg																			
85-01-8	Phenanthrene	SOLID	3.35	mg/kg	ug/kg																			
86-73-7	Fluorene	SOLID	1.76	mg/kg	ug/kg																			
91-20-3	Napthalene	SOLID	0.08	mg/kg	ug/kg																			
302-04-5	Thiocyanate	SOLID	62.96	mg/kg	mg/kg																			
P1879	Xylenols	SOLID - INITIAL	2.39	mg/kg	mg/kg																			
P2098	Cresols	SOLID - INITIAL	0.54	mg/kg	mg/kg																			
12001-28-4	Asbestos: Crocidolite	SOLID - INITIAL	#N/A	mg/kg	No units																			
12001-29-5	Asbestos: Chrysotile	SOLID - INITIAL	#N/A	mg/kg	No units																			
12172-67-7	Asbestos: Actinolite	SOLID - INITIAL	#N/A	mg/kg	No units																			
12172-73-5	Asbestos: Amosite	SOLID - INITIAL	#N/A	mg/kg	No units																			
14567-73-8	Asbestos: Tremolite	SOLID - INITIAL	#N/A	mg/kg	No units																			
17068-78-9	Asbestos: Anthophyllite	SOLID - INITIAL	#N/A	mg/kg	No units																			
1002-53-5	Dibutyl Tin	SOLID - INITIAL	0.00	mg/kg	mg/kg																			
1461-22-9	Tributyltin	SOLID - INITIAL	0.00	mg/kg	mg/kg																			
1461-25-2	Tetrabutyl Tin	SOLID - INITIAL	0.00	mg/kg	mg/kg																			
1634-04-4	Methyl tert-butyl ether (MTBE)	SOLID - INITIAL	#N/A	mg/kg	ug/kg																			
1746-01-6	2,3,7,8-Tetrachlorodibenzo-p-dioxin	SOLID - INITIAL	#N/A	mg/kg	ng/g																			
181274-15-7	Propoxycarbazono-sodium	SOLID - INITIAL	#N/A	mg/kg	mg/kg																			
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-P-Dioxin	SOLID - INITIAL	94064.99	mg/kg	ng/g																			
298-02-2	Phorate	SOLID - INITIAL	#N/A	mg/kg	ug/kg																			

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Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	Hole Ref	ARP16-LF-BH01	ARP16-LF-BH01	ARP16-LF-BH01	ARP16-LF-BH01	ARP16-LF-BH02	ARP16-LF-BH02	ARP16-LF-BH02	ARP16-LF-BH03	ARP16-LF-BH03	ARP16-LF-BH03	ARP16-LF-BH03	ARP16-LF-BH04	ARP16-LF-BH04	ARP16-LF-BH04	ARP16-LF-BH04	ARP16-LF-BH04	ARP16-LF-BH04	ARP16-LF-BH04	ARP16-LF-BH04	ARP16-LF-BH05	ARP16-LF-BH05
						Sample Top	Lookup soil	Sample Ref	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
103-33-3	Azobenzene	SOLID - INITIAL	0.38	mg/kg	ug/kg																						
106-47-8	4-Chloroaniline	SOLID - INITIAL	0.01	mg/kg	ug/kg																						
700-57-23	4-Chlorophenylphenylether	SOLID - INITIAL	#N/A	mg/kg	ug/kg																						
88-74-4	2-Nitroaniline	SOLID - INITIAL	0.01	mg/kg	ug/kg																						
99-09-2	3-Nitroaniline	SOLID - INITIAL	#N/A	mg/kg	ug/kg																						
994-05-8	Tertiary Amyl Methyl Ether	SOLID - INITIAL	#N/A	mg/kg	ug/kg																						
1336-36-6	PCB Total (WAC only)	SOLID	#N/A	mg/kg	mg/kg																						
P1330	BTEX (total) WAC	SOLID	#N/A	mg/kg	mg/kg																						

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Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	Hole Ref																			
						ARP16-LF-BH06	ARP16-LF-BH06	ARP16-LF-BH06	ARP16-LF-BH06	ARP16-LF-BH07	ARP16-LF-BH07	ARP16-LF-BH07	ARP16-LF-BH07	ARP16-LF-BH07	ARP16-LF-BH07	ARP16-LF-BH08	ARP16-LF-BH08	ARP16-LF-BH08	ARP16-LF-BH08	ARP16-LF-BH08	ARP16-LF-BH09	ARP16-LF-BH09	ARP16-LF-BH09	ARP16-LF-BH10	ARP16-LF-BH10
						10.50	2.00	5.00	8.00	1.50	12.55	15.20	3.50	6.00	15.40	18.40	3.40	6.40	9.40	0.40	3.40	6.40	9.40	0.25	1.00
						MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG	MG
						4	1	2	3	1	5	6	2	3	6	7	2	3	4	1	2	3	4	1	2
						ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
100-41-4	Ethylbenzene	SOLID - INITIAL	0.53	mg/kg	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.0	0.6	0.1	<0.01	<0.01	<0.01	<0.01	1.3	<0.01	0.1	<0.01	<0.01	<0.01	<0.01
108-88-3	Toluene	SOLID - INITIAL	0.88	mg/kg	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
120-12-7	Anthracene	SOLID - INITIAL	0.16	mg/kg	mg/kg	<0.02	0.5	<0.02	<0.02	0.4	0.2	0.6	2.9	5.8	0.5	<0.02	14.8	<0.02	0.8	<0.02	0.1	<0.02	0.2	0.1	<0.02
129-00-0	Pyrene	SOLID - INITIAL	1.88	mg/kg	mg/kg	<0.07	2.7	0.2	<0.07	2.8	0.6	1.7	9.6	22.3	1.4	0.1	28.5	<0.07	2.8	0.2	0.1	0.1	0.1	0.9	0.2
1330-20-7	Xylene	SOLID - INITIAL	0.23	mg/kg	mg/kg	<0.05	0.9	0.1	<0.05	0.6	0.2	0.2	1.2	3.6	0.3	0.1	2.6	<0.05	0.9	0.1	<0.05	<0.05	0.5	0.1	<0.05
191-24-2	Benzo(g,h,i)perylene	SOLID - INITIAL	2.42	mg/kg	mg/kg	<0.03	1.1	0.1	<0.03	0.8	0.2	0.2	1.5	4.7	0.3	0.1	3.4	<0.03	1.0	0.1	0.0	<0.03	0.6	0.1	<0.03
193-39-5	Indeno(1,2,3-cd)pyrene	SOLID - INITIAL	0.51	mg/kg	mg/kg	<0.03	1.1	0.1	<0.03	0.8	0.2	0.2	1.5	4.7	0.3	0.1	3.4	<0.03	1.0	0.1	0.0	<0.03	0.6	0.1	<0.03
205-99-2	Benzo(b)fluoranthene	SOLID - INITIAL	0.61	mg/kg	mg/kg	<0.05	2.1	0.2	<0.05	1.5	0.5	0.5	3.4	11.0	0.6	0.2	10.1	<0.05	2.2	0.1	0.1	0.1	0.7	0.1	<0.05
206-44-0	Fluoranthene	SOLID - INITIAL	0.01	mg/kg	mg/kg	<0.08	3.4	0.2	<0.08	3.5	0.9	2.1	13.0	25.1	1.7	0.2	37.4	<0.08	3.7	0.2	0.3	0.3	1.0	0.2	<0.08
207-08-9	Benzo(k)fluoranthene	SOLID - INITIAL	0.86	mg/kg	mg/kg	<0.07	0.7	0.1	<0.07	0.7	0.3	0.2	1.5	3.5	0.2	<0.07	3.6	<0.07	0.7	<0.07	<0.07	<0.07	0.3	<0.07	<0.07
208-96-8	Acenaphthylene	SOLID - INITIAL	1.01	mg/kg	mg/kg	<0.01	2.1	<0.01	<0.01	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.3	<0.01	0.1	<0.01	<0.01	<0.01	0.0	<0.01	<0.01
218-01-9	Chrysene	SOLID - INITIAL	6.38	mg/kg	mg/kg	<0.06	2.1	0.2	<0.06	1.6	0.3	0.6	3.6	9.4	0.6	0.1	12.0	<0.06	1.3	0.2	0.1	0.1	0.6	0.1	<0.06
50-32-8	Benzo(a)pyrene	SOLID - INITIAL	0.07	mg/kg	mg/kg	<0.04	1.8	0.1	<0.04	1.3	0.2	0.4	2.6	8.9	0.5	0.1	7.6	<0.04	1.1	0.1	0.1	0.1	0.7	0.1	<0.04
53-70-3	Dibenzo(a,h)anthracene	SOLID - INITIAL	10.80	mg/kg	mg/kg	<0.04	0.2	<0.04	<0.04	0.1	<0.04	<0.04	0.3	0.7	0.1	<0.04	0.9	<0.04	0.3	<0.04	<0.04	<0.04	0.1	<0.04	<0.04
56-55-3	Benzo(a)anthracene	SOLID - INITIAL	4.50	mg/kg	mg/kg	<0.04	2.0	0.1	<0.04	1.5	0.2	0.6	3.7	12.7	0.6	0.1	13.9	<0.04	1.4	0.1	0.1	0.1	0.6	0.1	<0.04
57-12-5	Cyanide	SOLID - INITIAL	0.26	mg/kg	mg/kg	<1	<1	<1	<1	<1	1.0	<1	<1	<1	<1	1.0	<1	2.0	8.0	<1	<1	1.0	4.0	<1	<1
71-43-2	Benzene	SOLID - INITIAL	0.0043	mg/kg	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
7439-92-1	Lead	SOLID - INITIAL	10.00	mg/kg	mg/kg	160.0	103.0	258.0	41.0	52.0	272.0	140.0	52.0	148.0	10.0	242.0	62.0	20.0	145.0	15.0	143.0	15700.0	492.0	33.0	52.0
7439-97-6	Mercury	SOLID - INITIAL	0.50	mg/kg	mg/kg	<0.17	<0.17	0.5	<0.17	<0.17	<0.17	0.6	<0.17	<0.17	1.0	1.2	0.6	0.6	0.4	0.6	<0.17	<0.17	0.3	<0.17	<0.17
7440-02-0	Nickel	SOLID - INITIAL	10.01	mg/kg	mg/kg	26.0	37.0	69.0	22.0	22.0	28.0	20.0	42.0	751.0	9.0	71.0	30.0	20.0	152.0	19.0	36.0	40.0	108.0	15.0	18.0
7440-36-0	Antimony	SOLID - INITIAL	1.26	mg/kg	mg/kg	15.0	<5	18.0	<5	<5	5.0	<5	13.0	<5	14.0	<5	22.0	<5	22.0	<5	11.0	22.0	<5	<5	<5
7440-38-2	Arsenic	SOLID - INITIAL	5.00	mg/kg	mg/kg	7.0	6.0	17.0	4.0	7.0	13.0	5.0	16.0	33.0	3.0	52.0	10.0	6.0	22.0	2.0	13.0	11.0	53.0	9.0	8.0
7440-41-7	Beryllium	SOLID - INITIAL	5.04	mg/kg	mg/kg	1.0	2.0	2.0	1.0	1.0	1.0	<1	1.0	2.0	<1	7.0	1.0	1.0	1.0	<1	2.0	<1	8.0	1.0	<1
7440-42-8	Boron	SOLID - INITIAL	8.69	mg/kg	mg/kg	2.1	2.2	5.4	6.7	1.9	8.4	4.9	3.1	2.3	3.8	13.0	2.5	2.0	6.5	<1.0	3.3	7.4	13.2	<1.0	1.5
7440-43-9	Cadmium	SOLID - INITIAL	0.50	mg/kg	mg/kg	2.7	2.2	6.0	1.8	3.2	2.3	1.3	2.5	7.6	<0.5	3.9	2.1	0.9	9.9	0.7	1.9	1.3	6.0	1.1	1.3
7440-47-3	Chromium	SOLID - INITIAL	315.49	mg/kg	mg/kg	39.0	33.0	47.0	32.0	27.0	218.0	17.0	90.0	476.0	9.0	37.0	36.0	23.0	95.0	14.0	29.0	23.0	50.0	25.0	22.0
7440-50-8	Copper	SOLID - INITIAL	1002.92	mg/kg	mg/kg	35.0	33.0	176.0	17.0	23.0	85.0	160.0	43.0	314.0	8.0	2030.0	29.0	13.0	457.0	10.0	38.0	39.0	472.0	17.0	20.0
7440-62-2	Vanadium	SOLID - INITIAL	1.01	mg/kg	mg/kg	47.0	49.0	19.0	41.0	34.0	28.0	17.0	33.0	53.0	10.0	56.0	45.0	36.0	54.0	18.0	36.0	23.0	61.0	34.0	38.0
7440-66-6	Zinc	SOLID - INITIAL	2507.30	mg/kg	mg/kg	103.0	145.0	527.0	58.0	117.0	2240.0	117.0	277.0	157.0	30.0	1700.0	117.0	46.0	631.0	58.0	263.0	35.0	515.0	55.0	82.0
7782-49-2	Selenium	SOLID - INITIAL	0.50	mg/kg	mg/kg	<1	<1	1.0	<1	<1	1.0	<1	1.0	3.0	<1	2.0	<1	3.0	<1	<1	<1	2.0	1.0	<1	<1
83-32-9	Acenaphthene	SOLID - INITIAL	965.39	mg/kg	mg/kg	<0.01	0.1	0.0	<0.01	0.1	0.2	0.6	5.3	3.6	0.8	<0.01	35.8	<0.01	0.8	0.0	0.1	<0.01	0.0	<0.01	<0.01
85-01-8	Phenanthrene	SOLID - INITIAL	3.35	mg/kg	mg/kg	0.1	2.4	<0.03	<0.03	1.4	0.4	2.3	12.8	16.1	2.0	0.0	57.0	<0.03	2.5	0.1	0.3	<0.03	0.6	0.2	<0.03
86-73-7	Fluorene	SOLID - INITIAL	1.76	mg/kg	mg/kg	<0.01	0.2	0.0	<0.01	0.1	0.8	4.2	3.1	0.5	<0.01	28.6	<0.01	0.7	0.0	0.2	<0.01	0.1	<0.01	<0.01	<0.01
91-20-3	Napthalene	SOLID - INITIAL	0.08	mg/kg	mg/kg	0.1	0.0	<0.03	<0.03	<0.03	0.6	1.7	1.4	3.2	<0.03	0.0	33.9	<0.03	0.6	<0.03	9.8	0.1	<0.03	<0.03	<0.03
P1186	Phenol	SOLID - INITIAL	0.04	mg/kg	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
P1310	Pah, Total	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
P1334	pH	SOLID - INITIAL	#N/A	pH Units	mg/kg																				
P1355	TPH Aromatic >C7-C8	SOLID - INITIAL	10.42	mg/kg	mg/kg			<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
P1356	TPH Aromatic >C8-C10	SOLID - INITIAL	219.16	mg/kg	mg/kg																				
P1357	TPH Aromatic >C10-C12	SOLID - INITIAL	16.54	mg/kg	mg/kg			<0.1	<0.1	<0.1	<0.1	0.5	1.5			20.7	7.2	18.9			45.8	0.9	<0.1	<0.1	
P1358	TPH Aromatic >C12-C16	SOLID - INITIAL	32.96	mg/kg	mg/kg			<0.1	<0.1	<0.1	<0.1	2.2	21.7			89.7	6.8	31.5			16.2	6.5	0.2	<0.1	
P1359	TPH Aromatic >C16-C21	SOLID - INITIAL	82.76	mg/kg	mg/kg			<0.1	<0.1	<0.1	<0.1	22.9	36.7			138.0	53.0	314.0			21.5	51.8	2.3	<0.1	
P1360	TPH Aromatic >C21-C35	SOLID - INITIAL	657.18	mg/kg	mg/kg			<0.1	<0.1	<0.1	<0.1	134.0	65.4			213.0	176.0	943.0</							

Appendix G

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Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	ARP16-LF-BH06	ARP16-LF-BH06	ARP16-LF-BH06	ARP16-LF-BH06	ARP16-LF-BH07	ARP16-LF-BH07	ARP16-LF-BH07	ARP16-LF-BH07	ARP16-LF-BH07	ARP16-LF-BH08	ARP16-LF-BH08	ARP16-LF-BH08	ARP16-LF-BH08	ARP16-LF-BH08	ARP16-LF-BH09	ARP16-LF-BH09	ARP16-LF-BH09	ARP16-LF-BH09	ARP16-LF-BH10	ARP16-LF-BH10
						10.50	2.00	5.00	8.00	1.50	12.55	15.20	3.50	6.00	15.40	18.40	3.40	6.40	9.40	0.40	3.40	6.40	9.40	0.25	1.00
Sample Top	Lookup soil	Sample Ref	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
108-67-8	1,3,5-Trimethylbenzene	SOLID - INITIAL	0.15	mg/kg	mg/kg																				
108-86-1	Bromobenzene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
108-90-7	Chlorobenzene	SOLID - INITIAL	4.46	mg/kg	mg/kg																				
108-95-2	Phenol	SOLID - INITIAL	0.04	mg/kg	mg/kg																				
111-91-1	Bis(2-chloroethoxy)methane	SOLID - INITIAL	0.01	mg/kg	mg/kg																				
117-81-7	Bis(2-ethylhexyl)phthalate	SOLID - INITIAL	18472.17	mg/kg	mg/kg																				
117-84-0	Di-N-Octyl Phthalate	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
118-74-1	Hexachlorobenzene (HCB)	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
120-82-1	1,2,4-Trichlorobenzene	SOLID - INITIAL	1.81	mg/kg	mg/kg																				
120-83-2	2,4-Dichlorophenol	SOLID - INITIAL	0.28	mg/kg	mg/kg																				
121-14-2	2,4-Dinitrotoluene	SOLID - INITIAL	0.00	mg/kg	mg/kg																				
122-39-4	Diphenylamine	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
124-48-1	Dibromochloromethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
127-18-4	Tetrachloroethene	SOLID - INITIAL	1.46	mg/kg	mg/kg																				
131-11-3	Dimethylphthalate	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
132-64-9	Dibenzofuran	SOLID - INITIAL	0.49	mg/kg	mg/kg																				
135-98-8	Sec-Butylbenzene	SOLID - INITIAL	1.39	mg/kg	mg/kg																				
142-28-9	1,3-Dichloropropane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
156-59-2	cis-1,2-Dichloroethene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
156-60-5	trans-1,2-Dichloroethene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
1634-04-4	Methyl tert-butyl ether (MTBE)	SOLID - INITIAL	#N/A	mg/kg	mg/kg			<0.01		<0.01			<0.01	<0.01			<0.01	<0.01	<0.05			<0.01	<0.01	<0.01	
39638-32-9	Bis(2-chloroisopropyl)ether	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
528-29-0	O-Dinitrobenzene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
534-52-1	2-Methyl-4,6-Dinitrophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
541-73-1	1,3-Dichlorobenzene	SOLID - INITIAL	145.60	mg/kg	mg/kg																				
56-23-5	Tetrachloromethane (Carbon Tetra Chloride)	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
563-58-6	1,1-Dichloropropene	SOLID - INITIAL	0.41	mg/kg	mg/kg																				
58-90-2	2,3,4,6-Tetrachlorophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
594-20-7	2,2-Dichloropropane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
59-50-7	4-Chloro-3-Methylphenol	SOLID - INITIAL	2.93	mg/kg	mg/kg																				
606-20-2	2,6-Dinitrotoluene	SOLID - INITIAL	1.48	mg/kg	mg/kg																				
62-53-3	Aniline	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
630-20-6	1,1,1,2-Tetrachloroethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
67-66-3	Chloroform	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
700-57-23	4-Chlorophenyl Phenyl Ether	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
71-55-6	1,1,1-Trichloroethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
74-95-3	Dibromomethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
74-97-5	Bromochloromethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
75-01-4	Chloroethene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
75-25-2	Tribromomethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
75-27-4	Bromodichloromethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
75-34-3	1,1-Dichloroethane	SOLID - INITIAL	0.01	mg/kg	mg/kg																				
75-35-4	1,1-Dichloroethene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
77-47-4	Hexachlorocyclopentadiene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
78-87-5	1,2-Dichloropropane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
79-00-5	1,1,2-Trichloroethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
79-01-6	Trichloroethene	SOLID - INITIAL	0.09	mg/kg	mg/kg																				
84-66-2	Diethylphthalate	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
84-74-2	Di-N-Butyl Phthalate	SOLID - INITIAL	0.52	mg/kg	mg/kg																				
85-68-7	Butylbenzylphthalate	SOLID - INITIAL	23.36	mg/kg	mg/kg																				
86-74-8	Carbazole	SOLID - INITIAL	0.01	mg/kg	mg/kg																				
87-61-6	1,2,3 Trichlorobenzene	SOLID - INITIAL	0.26	mg/kg	mg/kg																				
87-68-3	Hexachlorobutadiene (HCBT)	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
87-86-5	Pentachlorophenol (PCP)	SOLID - INITIAL	#N/A	mg/kg	mg/kg			<0.1				<0.1			<0.1				<0.1						
88-06-2	2,4,6-Trichlorophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
88-74-4	2-Nitroaniline	SOLID - INITIAL	0.01	mg/kg	mg/kg																				
91-57-6	2-Methylnaphthalene	SOLID - INITIAL	0.84	mg/kg	mg/kg																				
91-58-7	2-Chloronaphthalene	SOLID - INITIAL	0.92	mg/kg	mg/kg																				
935-95-5	2,3,5,6-Tetrachlorophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
95-47-6	Xylene	SOLID - INITIAL	0.23	mg/kg	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	0.0	0.1	0.2	0.0	<0.01	<0.01	<0.01	<0.01	0.6	<0.01	0.0	<0.01	<0.01	<0.01	
95-48-7	2-Methylphenol	SOLID - INITIAL	0.54	mg/kg	mg/kg																				
95-49-8	2-Chlorotoluene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
95-50-1	1,2-Dichlorobenzene	SOLID - INITIAL	40.42	mg/kg	mg/kg																				
95-57-8	2-Chlorophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
95-63-6	1,2,4-Trimethylbenzene	SOLID - INITIAL	0.25	mg/kg	mg/kg																				
95-95-4	2,4,5-Trichlorophenol	SOLID - INITIAL	60.93	mg/kg	mg/kg																				
96-12-8	1,2-Dibromo-3-Chloropropane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
96-18-4	1,2,3-Trichloropropane	SOLID - INITIAL	0.44	mg/kg	mg/kg																				

Appendix G

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Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	ARP16-LF-BH06	ARP16-LF-BH06	ARP16-LF-BH06	ARP16-LF-BH06	ARP16-LF-BH07	ARP16-LF-BH07	ARP16-LF-BH07	ARP16-LF-BH07	ARP16-LF-BH07	ARP16-LF-BH08	ARP16-LF-BH08	ARP16-LF-BH08	ARP16-LF-BH08	ARP16-LF-BH08	ARP16-LF-BH09	ARP16-LF-BH09	ARP16-LF-BH09	ARP16-LF-BH10	ARP16-LF-BH10
						ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
98-06-6	Tert-Butylbenzene	SOLID - INITIAL	0.75	mg/kg	mg/kg																			
98-82-8	Isopropylbenzene	SOLID - INITIAL	0.27	mg/kg	mg/kg																			
99-09-2	3-Nitroaniline	SOLID - INITIAL	#N/A	mg/kg	mg/kg																			
99-65-0	m-Dinitrobenzene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																			
99-87-6	4-Isopropyltoluene	SOLID - INITIAL	54.06	mg/kg	mg/kg																			
P1374	xylene	SOLID - INITIAL	0.23	mg/kg	mg/kg	0.1	<0.01	<0.01	<0.01	<0.01	3.0	0.4	2.4	0.3	<0.01	<0.01	<0.01	0.0	5.0	<0.01	0.1	<0.01	<0.01	<0.01
18540-29-9	chromium hexavalent	SOLID - INITIAL	0.02	mg/kg	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
P1095	Cyanide Free	SOLID - INITIAL	#N/A	mg/kg	mg/kg																			
P1239	Complex Cyanide	SOLID - INITIAL	0.26	mg/kg	mg/kg																			
31508-00-6	PCB-118 2,3,4,4,5 - Pentachlorobiphenyl	SOLID - INITIAL	#N/A	mg/kg	mg/kg																			
32598-13-3	PCB 77	SOLID - INITIAL	6185.41	mg/kg	mg/kg																			
32598-14-4	PCB 105	SOLID - INITIAL	8940.63	mg/kg	mg/kg																			
32774-16-6	PCB 169	SOLID - INITIAL	37270.75	mg/kg	mg/kg																			
38380-08-4	PCB-156 2,3,3,4,4,5 - Hexachlorobiphenyl	SOLID - INITIAL	3172.26	mg/kg	mg/kg																			
39635-31-9	PCB 189	SOLID - INITIAL	270002.64	mg/kg	mg/kg																			
52663-72-6	PCB 167	SOLID - INITIAL	45853.03	mg/kg	mg/kg																			
57465-28-8	PCB 126	SOLID - INITIAL	8940.63	mg/kg	mg/kg																			
65510-44-3	PCB 123	SOLID - INITIAL	8940.63	mg/kg	mg/kg																			
69782-90-7	PCB 157	SOLID - INITIAL	45853.03	mg/kg	mg/kg																			
70362-50-4	PCB 81	SOLID - INITIAL	8940.63	mg/kg	mg/kg																			
74472-37-0	PCB 114	SOLID - INITIAL	8940.63	mg/kg	mg/kg																			
100-02-7	4-Nitrophenol	SOLID	0.04	mg/kg	ug/kg			<100					<100	<1000		<100		<100	<100		<100	<100	<100	<100
100-41-4	Ethylbenzene	SOLID	0.53	mg/kg	ug/kg			<1				550.0	7.0		<1		635.0	<1		9.0	<1	<1	<1	<1
100-42-5	Styrene	SOLID	1.04	mg/kg	ug/kg			<1				<1	<5		<1		<1	<1		<1	<1	<1	<1	<1
10061-01-5	cis 1,3-Dichloropropene	SOLID	#N/A	mg/kg	ug/kg			<1				<1	<5		<1		<1	<1		<1	<1	<1	<1	<1
10061-02-6	trans 1,3-Dichloropropene	SOLID	#N/A	mg/kg	ug/kg			<1				<1	<5		<1		<1	<1		<1	<1	<1	<1	<1
103-65-1	Propylbenzene	SOLID	0.28	mg/kg	ug/kg			<1				10.0	<5		<1		15.0	<1		11.0	<1	<1	<1	<1
104-51-8	n-Butylbenzene	SOLID	1.39	mg/kg	ug/kg			<1				4.0	<5		<1		<1	<1		10.0	<1	<1	<1	<1
105-67-9	2,4-Dimethylphenol	SOLID	1.18	mg/kg	ug/kg			<100				<100	<1000		<100		<100	<100		<100	<100	<100	<100	<100
106-43-4	4-Chlorotoluene	SOLID	#N/A	mg/kg	ug/kg			<1				<1	<5		<1		<1	<1		<1	<1	<1	<1	<1
106-44-5	4-Methylphenol	SOLID	0.53	mg/kg	ug/kg			<100				<100	<1000		<100		<100	<100		<100	<100	<100	<100	<100
106-46-7	1,4-Dichlorobenzene	SOLID	48.01	mg/kg	ug/kg			<1				7.0	<5		<1		2.0	<1		38.0	<1	<1	<1	<1
106-93-4	1,2-Dibromoethane	SOLID	#N/A	mg/kg	ug/kg			<1				<1	<5		<1		<1	<1		<1	<1	<1	<1	<1
107-06-2	1,2-Dichloroethane	SOLID	#N/A	mg/kg	ug/kg			<2				<2	<10		<2		<2	<2		<2	<2	<2	<2	<2
108-67-8	1,3,5-Trimethylbenzene	SOLID	0.15	mg/kg	ug/kg			<1				20.0	<5		<1		123.0	<1		<1	<1	<1	<1	<1
108-86-1	Bromobenzene	SOLID	#N/A	mg/kg	ug/kg			<1				<1	<5		<1		<1	<1		<1	<1	<1	<1	<1
108-88-3	Toluene	SOLID	0.88	mg/kg	ug/kg			<1				1.0	<5		<1		2.0	<1		1.0	1.0	1.0	<1	<1
108-90-7	Chlorobenzene	SOLID	4.46	mg/kg	ug/kg			<1				<1	<5		<1		<1	<1		42.0	<1	<1	<1	<1
108-95-2	Phenol	SOLID	0.04	mg/kg	ug/kg			<100				<100	<1000		<100		<100	<100		<100	<100	<100	<100	<100
111-44-4	Bis(2-chloroethyl)ether	SOLID	#N/A	mg/kg	ug/kg			<100				<100	<1000		<100		<100	<100		<100	<100	<100	<100	<100
111-91-1	Bis(2-chloroethoxy)methane	SOLID	0.01	mg/kg	ug/kg			<100				<100	<1000		<100		<100	<100		<100	<100	<100	<100	<100
117-81-7	Bis(2-ethylhexyl)phthalate	SOLID	18472.17	mg/kg	ug/kg			<100				<100	<1000		<100		<100	<100		<100	<100	<100	<100	<100
117-84-0	n-Dioctylphthalate	SOLID	146035.35	mg/kg	ug/kg			<100				174.0	<1000		182.0		6020.0	<100		<100	2050.0	<100	<100	<100
118-74-1	Hexachlorobenzene	SOLID	0.23	mg/kg	ug/kg			<100				<100	<1000		<100		<100	<100		<100	<100	<100	<100	<100
120-82-1	1,2,4-Trichlorobenzene	SOLID	1.81	mg/kg	ug/kg			<3				<3	<15		<3		<3	<3		<3	<3	<3	<3	<3
120-83-2	2,4-Dichlorophenol	SOLID	0.28	mg/kg	ug/kg			<100				<100	<1000		<100		<100	<100		<100	<100	<100	<100	<100
121-14-2	2,4-Dinitrotoluene	SOLID	0.00	mg/kg	ug/kg			<100				<100	<1000		<100		<100	<100		<100	<100	<100	<100	<100
124-48-1	Dibromochloromethane	SOLID	#N/A	mg/kg	ug/kg			<3				<3	<15		<3		<3	<3		<3	<3	<3	<3	<3
127-18-4	Tetrachloroethene	SOLID	1.46	mg/kg	ug/kg			<1				<1	<5		<1		<1	<1		<1	<1	<1	<1	<1
131-11-3	Dimethyl phthalate	SOLID	#N/A	mg/kg	ug/kg			<100				<100	<1000		<100		<100	<100		<100	<100	<100	<100	<100
132-64-9	Dibenzofuran	SOLID	0.49	mg/kg	ug/kg			<100				3530.0	3010.0		31400.0		314.0	<100		128.0	<100	<100	<100	<100
135-98-8	sec-Butylbenzene	SOLID	1.39	mg/kg	ug/kg			<1				1.0	<5		1.0		6.0	<1		3.0	<1	<1	<1	<1
142-28-9	1,3-Dichloropropane	SOLID	#N/A	mg/kg	ug/kg			<1				<1	<5		<1		<1	<1		<1	<1	<1	<1	<1
156-59-2	cis 1,2-Dichloroethene	SOLID	0.31	mg/kg	ug/kg			<1				<1	<5		<1		<1	<1		<1	<1	<1	<1	<1
156-60-5	trans 1,2-Dichloroethene	SOLID	#N/A	mg/kg	ug/kg			<1				<1	<5		<1		<1	<1		<1	<1	<1	<1	<1
198-55-0	Perylene	SOLID	206.28	mg/kg	ug/kg			167.0				1830.0	3530.0		4530.0		403.0	<100		<100	<100	284.0	<100	<100
39638-32-9	Bis(2-chloroisopropyl)ether	SOLID	#N/A	mg/kg	ug/kg			<100				<100	<1000		<100		<100	<100		<100	<100	<100	<100	<100
541-73-1	1,3-Dichlorobenzene	SOLID	145.60	mg/kg	ug/kg			<1				<1	<5		<1		<1	<1		3.0	<1	<1	<1	<1
56-23-5	Carbon Tetrachloride																							

Appendix G

G2 RTM Level 1 - Soils

Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	Hole Ref																			
						ARP16-LF-BH06	ARP16-LF-BH06	ARP16-LF-BH06	ARP16-LF-BH06	ARP16-LF-BH07	ARP16-LF-BH07	ARP16-LF-BH07	ARP16-LF-BH07	ARP16-LF-BH07	ARP16-LF-BH07	ARP16-LF-BH08	ARP16-LF-BH08	ARP16-LF-BH08	ARP16-LF-BH08	ARP16-LF-BH08	ARP16-LF-BH09	ARP16-LF-BH09	ARP16-LF-BH09	ARP16-LF-BH10	ARP16-LF-BH10
						10.50	2.00	5.00	8.00	1.50	12.55	15.20	3.50	6.00	15.40	18.40	3.40	6.40	9.40	0.40	3.40	6.40	9.40	0.25	1.00
						MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG	MG
						4	1	2	3	1	5	6	2	3	6	7	2	3	4	1	2	3	4	1	2
						ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
71-55-6	1,1,1-Trichloroethane	SOLID	#N/A	mg/kg	ug/kg				<1				<1	<5			<1	<1	<1	<1	<1	<1	<1	<1	<1
7440-39-3	Barium	SOLID	78.73	mg/kg	mg/kg																				
74-83-9	Bromomethane	SOLID	#N/A	mg/kg	ug/kg				<1				<1	<5			<1	<1	<1	<1	<1	<1	<1	<1	<1
74-87-3	Chloromethane	SOLID	0.02	mg/kg	ug/kg				<10				<10	<50			<10	<10	<10	<10	<10	<10	<10	<10	<10
74-95-3	Dibromomethane	SOLID	#N/A	mg/kg	ug/kg				<1				<1	<5			<1	<1	<1	<1	<1	<1	<1	<1	<1
74-97-5	Bromochloromethane	SOLID	#N/A	mg/kg	ug/kg				<5				<5	<25			<5	<5	<5	<5	<5	<5	<5	<5	<5
75-00-3	Chloroethane	SOLID	#N/A	mg/kg	ug/kg				<1				<1	<5			<1	<1	<1	<1	<1	<1	<1	<1	<1
75-01-4	Vinyl Chloride	SOLID	#N/A	mg/kg	ug/kg				<1				<1	<5			<1	<1	<1	<1	<1	<1	<1	<1	<1
75-09-2	Dichloromethane	SOLID	0.03	mg/kg	ug/kg				11.0				<5	<25			<5	<5	<5	<5	<5	<5	<5	<5	<5
75-15-0	Carbon Disulphide	SOLID	0.07	mg/kg	ug/kg				<1				6.0	<5			1.0	6.0	<1	4.0	7.0	4.0	7.0	<1	<1
75-25-2	Bromoform	SOLID	#N/A	mg/kg	ug/kg				<1				<1	<5			<1	<1	<1	<1	<1	<1	<1	<1	<1
75-27-4	Bromodichloromethane	SOLID	#N/A	mg/kg	ug/kg				<10				<10	<50			<10	<10	<10	<10	<10	<10	<10	<10	<10
75-34-3	1,1-Dichloroethane	SOLID	0.01	mg/kg	ug/kg				<1				<1	<5			<1	<1	<1	<1	<1	<1	<1	<1	<1
75-35-4	1,1-Dichloroethene	SOLID	#N/A	mg/kg	ug/kg				<1				<1	<5			<1	<1	<1	<1	<1	<1	<1	<1	<1
75-69-4	Trichlorofluoromethane	SOLID	0.05	mg/kg	ug/kg				<1				<1	<5			<1	<1	<1	<1	<1	<1	<1	<1	<1
75-71-8	Dichlorodifluoromethane	SOLID	#N/A	mg/kg	ug/kg				<1				<1	<5			<1	<1	<1	<1	<1	<1	<1	<1	<1
77-47-4	Hexachlorocyclopentadiene	SOLID	#N/A	mg/kg	ug/kg				<100				<100	<1000			<100	<100	<100	<100	<100	<100	<100	<100	<100
78-59-1	Isophorone	SOLID	22.26	mg/kg	ug/kg				<100				<100	<1000			<100	<100	<100	<100	<100	<100	<100	<100	<100
78-87-5	1,2-Dichloropropane	SOLID	#N/A	mg/kg	ug/kg				<1				<1	<5			<1	<1	<1	<1	<1	<1	<1	<1	<1
79-00-5	1,1,2-Trichloroethane	SOLID	#N/A	mg/kg	ug/kg				<1				<1	<5			<1	<1	<1	<1	<1	<1	<1	<1	<1
79-01-6	Trichloroethene	SOLID	0.09	mg/kg	ug/kg				<1				<1	<5			<1	<1	<1	<1	<1	<1	<1	<1	<1
79-34-5	1,1,2,2-Tetrachloroethane	SOLID	2.66	mg/kg	ug/kg				<1				25.0	<5			<1	<1	<1	<1	<1	<1	<1	<1	<1
84-66-2	Diethyl phthalate	SOLID	3.11	mg/kg	ug/kg				<100				<100	<1000			<100	<100	<100	<100	<100	<100	<100	<100	<100
84-74-2	Di-N-Butyl Phthalate	SOLID	0.52	mg/kg	ug/kg				<100				<100	<1000			<100	374.0	<100	364.0	3960.0	<100	<100	<100	<100
85-68-7	Butylbenzyl phthalate	SOLID	23.36	mg/kg	ug/kg				<100				<100	<1000			<100	10000.0	<100	<100	<100	<100	<100	<100	<100
86-74-8	Carbazole	SOLID	0.01	mg/kg	ug/kg				<100				598.0	3110.0			6480.0	248.0	<100	<100	<100	<100	<100	<100	<100
87-61-6	1,2,3-Trichlorobenzene	SOLID	#N/A	mg/kg	ug/kg				<3				<3	<15			<3	<3	<3	<3	<3	<3	<3	<3	<3
87-68-3	Hexachlorobutadiene	SOLID	#N/A	mg/kg	ug/kg				<1				<1	<5			<1	<1	<1	<1	<1	<1	<1	<1	<1
87-86-5	Pentachlorophenol	SOLID	2.17	mg/kg	ug/kg				<100				<100	<1000			<100	<100	<100	<100	<100	<100	<100	<100	<100
88-06-2	2,4,6-Trichlorophenol	SOLID	#N/A	mg/kg	ug/kg				<100				<100	<1000			<100	<100	<100	<100	<100	<100	<100	<100	<100
88-75-5	2-Nitrophenol	SOLID	0.03	mg/kg	ug/kg				<100				<100	<1000			<100	<100	<100	<100	<100	<100	<100	<100	<100
91-57-6	2-Methylnaphthalene (SVOC) DEFAULT	SOLID	0.84	mg/kg	ug/kg				<100				1170.0	1800.0			30800.0	494.0	<100	1340.0	<100	<100	<100	<100	<100
91-58-7	2-Chloronaphthalene	SOLID	0.92	mg/kg	ug/kg				<100				<100	<1000			<100	<100	<100	<100	<100	<100	<100	<100	<100
95-47-6	Xylene	SOLID	0.23	mg/kg	ug/kg				<1				81.0	<5			<1	216.0	<1	3.0	<1	<1	<1	<1	<1
95-48-7	2-Methylphenol	SOLID	0.54	mg/kg	ug/kg				<100				<100	<1000			<100	<100	<100	<100	<100	<100	<100	<100	<100
95-49-8	2-Chlorotoluene	SOLID	#N/A	mg/kg	ug/kg				<1				<1	<5			<1	<1	<1	<1	<1	<1	<1	<1	<1
95-50-1	1,2-Dichlorobenzene	SOLID	40.42	mg/kg	ug/kg				<1				1.0	<5			<1	3.0	<1	165.0	<1	<1	<1	<1	<1
95-57-8	2-Chlorophenol	SOLID	#N/A	mg/kg	ug/kg				<100				<100	<1000			<100	<100	<100	<100	<100	<100	<100	<100	<100
95-63-6	1,2,4-Trimethylbenzene	SOLID	0.25	mg/kg	ug/kg				<1				48.0	<5			12.0	308.0	<1	100.0	1.0	<1	<1	<1	<1
95-95-4	2,4,5-Trichlorophenol	SOLID	60.93	mg/kg	ug/kg				<100				<100	<1000			<100	<100	<100	<100	<100	<100	<100	<100	<100
96-12-8	1,2-Dibromo-3-chloropropane	SOLID	#N/A	mg/kg	ug/kg				<2				<2	<10			<2	<2	<2	<2	<2	<2	<2	<2	<2
96-18-4	1,2,3-Trichloropropane	SOLID	0.44	mg/kg	ug/kg				<1				<1	<5			<1	<1	<1	<1	<1	<1	<1	<1	<1
98-06-6	tert-Butylbenzene	SOLID	0.75	mg/kg	ug/kg				<2				<2	<10			<2	3.0	<2	<2	<2	<2	<2	<2	<2
98-82-8	Isopropylbenzene	SOLID	0.27	mg/kg	ug/kg				<1				9.0	<5			<1	35.0	<1	4.0	<1	<1	<1	<1	<1
98-95-3	Nitrobenzene	SOLID	0.00	mg/kg	ug/kg				<100				<100	<1000			<100	<100	<100	<100	<100	<100	<100	<100	<100
99-87-6	4-Isopropyltoluene	SOLID	54.06	mg/kg	ug/kg				<1				66.0	<5			2.0	10.0	<1	<1	<1	<1	<1	<1	<1
P1374	Xylene	SOLID	0.23	mg/kg	ug/kg				<1				3140.0	34.0			<1	2110.0	<1	11.0	<1	<1	<1	<1	<1
P1762	TPH Aromatic >C8-C10	SOLID	219.16	mg/kg	mg/kg				<0.01			0.5	3.1				<0.01	0.0	7.0	0.1	<0.01	<0.01	<0.01	<0.01	<0.01
P1763	TPH Aromatic >C8-C10	SOLID	219.16	mg/kg	mg/kg				0.0			<0.01	1.1	0.5			0.1	0.3	3.2	1.1	0.0	<0.01	<0.01	<0.01	<0.01
P1334	pH	SOLID	#N/A	mg/kg	pH				8.0	7.8	7.7	7.7	7.8	8.1	8.6										

Appendix G

G2 RTM Level 1 - Soils

Hole Ref	ARP16-LF-BH06	ARP16-LF-BH06	ARP16-LF-BH06	ARP16-LF-BH06	ARP16-LF-BH07	ARP16-LF-BH07	ARP16-LF-BH07	ARP16-LF-BH07	ARP16-LF-BH07	ARP16-LF-BH07	ARP16-LF-BH08	ARP16-LF-BH08	ARP16-LF-BH08	ARP16-LF-BH08	ARP16-LF-BH08	ARP16-LF-BH09	ARP16-LF-BH09	ARP16-LF-BH09	ARP16-LF-BH09	ARP16-LF-BH10	ARP16-LF-BH10
Sample Top	10.50	2.00	5.00	8.00	1.50	12.55	15.20	3.50	6.00	15.40	18.40	3.40	6.40	9.40	0.40	3.40	6.40	9.40	0.25	1.00	
Lookup soil	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG	MG
Sample Ref	4	1	2	3	1	5	6	2	3	6	7	2	3	4	1	2	3	4	1	2	
Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
1610-18-0	Prometon SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg			<50				<50			<50				<50		
16118-49-3	Carbetamide	SOLID	#N/A	mg/kg	mg/kg			<0.1				<0.1			<0.1				<0.1		
1689-83-4	Ioxynil	SOLID	#N/A	mg/kg	mg/kg			<0.1				<0.1			<0.1				<0.1		
1689-84-5	Bromoxynil	SOLID	#N/A	mg/kg	mg/kg			<0.1				<0.1			<0.1				<0.1		
1702-17-6	Clopyralid	SOLID	#N/A	mg/kg	mg/kg			<0.1				<0.1			<0.1				<0.1		
1746-81-2	Monolinuron	SOLID	#N/A	mg/kg	mg/kg			<0.1				<0.1			<0.1				<0.1		
18691-97-9	Methabenzthiazuron	SOLID	#N/A	mg/kg	mg/kg			<0.1				<0.1			<0.1				<0.1		
1897-45-6	Chlorothalonil	SOLID	#N/A	mg/kg	ug/kg			<50				<50			<50				<50		
1912-24-9	Atrazine SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg			<50				<50			<50				<50		
1918-00-9	Dicamba	SOLID	#N/A	mg/kg	mg/kg			<0.1				<0.1			<0.1				<0.1		
6607	Picloram	SOLID	#N/A	mg/kg	mg/kg			<0.1				<0.1			<0.1				<0.1		
1967-16-4	Chlorbufam	SOLID	#N/A	mg/kg	mg/kg			<0.1				<0.1			<0.1				<0.1		
1982-47-4	Chloroxuron	SOLID	#N/A	mg/kg	mg/kg			<0.1				<0.1			<0.1				<0.1		
19937-59-8	Metoxuron	SOLID	#N/A	mg/kg	mg/kg			<0.1				<0.1			<0.1				<0.1		
2132-70-9	p,p-Methoxychlor	SOLID	#N/A	mg/kg	ug/kg			<50				<50			<50				<50		
2274-67-1	Chlorpyrifos-methyl	SOLID	#N/A	mg/kg	ug/kg			<50				<50			<50				<50		
2303-17-5	Triallate	SOLID	#N/A	mg/kg	ug/kg			<50				<50			<50				<50		
2310-17-0	Phosalone	SOLID	#N/A	mg/kg	ug/kg			<50				<50			<50				<50		
23103-98-2	Pirimicarb	SOLID	#N/A	mg/kg	mg/kg			<0.1				<0.1			<0.1				<0.1		
24017-47-8	Triazophos	SOLID	#N/A	mg/kg	ug/kg			<50				<50			<50				<50		
25057-89-0	Bentazone	SOLID	#N/A	mg/kg	mg/kg			<0.1				<0.1			<0.1				<0.1		
2642-71-9	Azinphos-ethyl	SOLID	#N/A	mg/kg	ug/kg			<50				<50			<50				<50		
2921-88-2	Chlorpyrifos	SOLID	#N/A	mg/kg	ug/kg			<50				<50			<50				<50		
29232-93-7	Pirimiphos Methyl	SOLID	#N/A	mg/kg	ug/kg			<50				<50			<50				<50		
297-78-9	Telodrin	SOLID	#N/A	mg/kg	ug/kg			<50				<50			<50				<50		
298-00-0	Methyl Parathion	SOLID	#N/A	mg/kg	ug/kg			<50				<50			<50				<50		
298-01-1	Mevinphos	SOLID	#N/A	mg/kg	ug/kg			<50				<50			<50				<50		
298-04-4	Disulfoton SUBCON OCP Alcontrol	SOLID	#N/A	mg/kg	ug/kg			<50				<50			<50				<50		
29973-13-5	Ethiofencarb	SOLID	#N/A	mg/kg	mg/kg			<0.1				<0.1			<0.1				<0.1		
30667-99-3	o,p-Methoxychlor	SOLID	#N/A	mg/kg	ug/kg			<50				<50			<50				<50		
309-00-2	Aldrin SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg			<50				<50			<50				<50		
31218-83-4	Propetamphos	SOLID	#N/A	mg/kg	ug/kg			<50				<50			<50				<50		
314-40-9	Bromacil	SOLID	#N/A	mg/kg	mg/kg			<0.1				<0.1			<0.1				<0.1		
319-84-6	alpha-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg			<50				<50			<50				<50		
	beta-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg			<50				<50			<50				<50		
319-85-7		SOLID	#N/A	mg/kg	ug/kg			<50				<50			<50				<50		
330-54-1	Diuron SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg			<0.1				<0.1			<0.1				<0.1		
330-55-2	Linuron	SOLID	#N/A	mg/kg	mg/kg			<0.1				<0.1			<0.1				<0.1		
33213-65-9	Endosulphan II	SOLID	#N/A	mg/kg	ug/kg			<50				<50			<50				<50		
333-41-5	Diazinon	SOLID	#N/A	mg/kg	ug/kg			<50				<50			<50				<50		
34123-59-6	Isoproturon	SOLID	#N/A	mg/kg	mg/kg			<0.1				<0.1			<0.1				<0.1		
34205-21-5	Dimefuron	SOLID	#N/A	mg/kg	mg/kg			<0.1				<0.1			<0.1				<0.1		
3424-82-6	o,p-DDE	SOLID	#N/A	mg/kg	ug/kg			<50				<50			<50				<50		
35367-38-5	Diflufenzuron	SOLID	#N/A	mg/kg	mg/kg			<0.1				<0.1			<0.1				<0.1		
698836	Benzolin	SOLID	#N/A	mg/kg	mg/kg			<0.1				<0.1			<0.1				<0.1		
38260-54-7	Etrimephos	SOLID	#N/A	mg/kg	ug/kg			<50				<50			<50				<50		
40483-25-2	Diclofop	SOLID	#N/A	mg/kg	mg/kg			<0.1				<0.1			<0.1				<0.1		
40487-42-1	Pendimethalin	SOLID	#N/A	mg/kg	ug/kg			<50				<50			<50				<50		
43121-43-3	Triadimefon	SOLID	#N/A	mg/kg	ug/kg			<50				<50			<50				<50		
465-73-6	Isodrin	SOLID	#N/A	mg/kg	ug/kg			<50				<50			<50				<50		
470-90-6	Chlorfenvinphos	SOLID	#N/A	mg/kg	ug/kg			<50				<50			<50				<50		
50-29-3	p,p-DDT SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg			<50				<50			<50				<50		
50-31-7	2,3,6-TBA	SOLID	#N/A	mg/kg	mg/kg			<0.1				<0.1			<0.1				<0.1		
5103-71-9	cis-Chlordane SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg			<50				<50			<50				<50		
5103-74-2	trans-Chlordane SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg			<50				<50			<50				<50		
51630-58-1	Fenvalerate SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg			<0.1				<0.1			<0.1				<0.1		
52315-07-8	Cypermethrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg			<0.1				<0.1			<0.1				<0.1		
52645-53-1	Permethrin SUBCON RPS MH Pyrethroids	SOLID	#N/A	mg/kg	mg/kg			<0.1				<0.1			<0.1				<0.1		
52756-22-6	Fiamprop-isopropyl	SOLID	#N/A	mg/kg	mg/kg			<0.1				<0.1			<0.1				<0.1		
52918-63-5	Deltamethrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg			<0.1				<0.1			<0.1				<0.1		
53-19-0	o,p-TDE (DDD)	SOLID	#N/A	mg/kg	ug/kg			<50				<50			<50				<50		
55335-06-3	Triclopyr	SOLID	#N/A	mg/kg	mg/kg			<0.1				<0.1			<0.1				<0.1		
55-38-9	Fenthion	SOLID	#N/A	mg/kg	ug/kg			<50				<50			<50				<50		
563-12-2	Ethion	SOLID	#N/A	mg/kg	ug/kg			<50				<50			<50				<50		
56-38-2	Parathion (Ethyl Parathion)	SOLID	#N/A	mg/kg	ug/kg			<50				<50			<50				<50		
58667-63-3	Fiamprop	SOLID	#N/A	mg/kg	mg/kg			<0.1				<0.1			<0.1				<0.1		

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Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	Hole Ref	ARP16-LF-BH06	ARP16-LF-BH06	ARP16-LF-BH06	ARP16-LF-BH06	ARP16-LF-BH07	ARP16-LF-BH07	ARP16-LF-BH07	ARP16-LF-BH07	ARP16-LF-BH07	ARP16-LF-BH08	ARP16-LF-BH08	ARP16-LF-BH08	ARP16-LF-BH08	ARP16-LF-BH08	ARP16-LF-BH09	ARP16-LF-BH09	ARP16-LF-BH09	ARP16-LF-BH09	ARP16-LF-BH10	ARP16-LF-BH10
						Sample Top	10.50	2.00	5.00	8.00	1.50	12.55	15.20	3.50	6.00	15.40	18.40	3.40	6.40	9.40	0.40	3.40	6.40	9.40	0.25	1.00
Sample Ref	4	1	2	3	1	5	6	2	3	6	7	2	3	4	1	2	3	4	1	2	3	4	1	2		
Lookup soil	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	
Sample Ref	4	1	2	3	1	5	6	2	3	6	7	2	3	4	1	2	3	4	1	2	3	4	1	2		
Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	
31508-00-6	PCB-118 2,3',4,4',5 - Pentachlorobiphenyl	SOLID - INITIAL	694.02	mg/kg	ng/g																					
32598-13-3	PCB 77	SOLID - INITIAL	6185.41	mg/kg	ng/g																					
32598-14-4	PCB 105	SOLID - INITIAL	8940.63	mg/kg	ng/g																					
3268-87-9	Octachlorodibenzo-p-dioxin	SOLID - INITIAL	91923.81	mg/kg	ng/g																					
32774-16-6	PCB 169	SOLID - INITIAL	37270.75	mg/kg	ng/g																					
3380-34-5	Triclosan	SOLID - INITIAL	0.33	mg/kg	mg/kg																					
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-P-Dioxin	SOLID - INITIAL	91923.81	mg/kg	ng/g																					
38380-08-4	PCB-156 2,3,3,4,4,5 - Hexachlorobiphenyl	SOLID - INITIAL	3172.26	mg/kg	ng/g																					
39001-02-0	Octachlorodibenzofuran	SOLID - INITIAL	46180.43	mg/kg	ng/g																					
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-P-Dioxin	SOLID - INITIAL	36595.53	mg/kg	ng/g																					
39635-31-9	PCB 189	SOLID - INITIAL	270002.64	mg/kg	ng/g																					
40321-76-4	1,2,3,7,8-Pentachlorodibenzo-P-Dioxin	SOLID - INITIAL	#N/A	mg/kg	ng/g																					
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	SOLID - INITIAL	393.06	mg/kg	ng/g																					
52645-53-1	Permethrin	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					
52663-72-6	PCB 167	SOLID - INITIAL	45853.03	mg/kg	ng/g																					
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	SOLID - INITIAL	9648.46	mg/kg	ng/g																					
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	SOLID - INITIAL	964.85	mg/kg	ng/g																					
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	SOLID - INITIAL	715.25	mg/kg	ng/g																					
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	SOLID - INITIAL	715.25	mg/kg	ng/g																					
57465-28-8	PCB 126	SOLID - INITIAL	8940.63	mg/kg	ng/g																					
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-P-Dioxin	SOLID - INITIAL	91923.81	mg/kg	ng/g																					
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofura	SOLID - INITIAL	715.25	mg/kg	ng/g																					
62476-59-9	Acifluorfen	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
65510-44-3	PCB 123	SOLID - INITIAL	8940.63	mg/kg	ng/g																					
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	SOLID - INITIAL	715.25	mg/kg	ng/g																					
69782-90-7	PCB 157	SOLID - INITIAL	45853.03	mg/kg	ng/g																					
70362-50-4	PCB 81	SOLID - INITIAL	8940.63	mg/kg	ng/g																					
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	SOLID - INITIAL	715.25	mg/kg	ng/g																					
7085-19-0	mecoprop	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
72-43-5	Methoxychlor	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	SOLID - INITIAL	#N/A	mg/kg	ng/g																					
74472-37-0	PCB 114	SOLID - INITIAL	8940.63	mg/kg	ng/g																					
88-85-7	Dinoseb	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
892-20-6	Triphenyltin	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
P1330	BTEX	SOLID - INITIAL	0.00	mg/kg	ug/kg																					
P1354	TPH Aromatic >C6-C7	SOLID - INITIAL	0.05	mg/kg	ug/kg																					
P1355	TPH Aromatics > C7-C8	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					
P1356	Aromatics >C8-10	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					
P1357	Aromatics >C10-12	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					
P1358	Aromatics >C12-16	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					
P1359	Aromatics >C16-21	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					
P1360	Aromatics >C21-35	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					
P1362	Aromatics >C35-44	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					
P1407	Aliphatics >C5-6	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					
P1408	Aliphatics >C6-8	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					
P1409	Aliphatics >C8-10	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					
P1410	Aliphatics >C10-12	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					
P1411	Aliphatics >C12-16	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					
P1412	Aliphatics >C16-21	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					
P1413	Aliphatics >C21-35	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					
P1415	Aliphatics >C35-44	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					
15541-45-4	Bromate	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
16065-83-1	Trivalent Chromium	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
16887-00-6	Chloride	SOLID - INITIAL	268.18	mg/kg	mg/kg																					
16984-48-8	Fluoride	SOLID - INITIAL	0.41	mg/kg	mg/kg																					
18496-25-8	Sulphide	SOLID - INITIAL	#VALUE!	mg/kg	mg/kg																					
24959-67-9	Bromide	SOLID - INITIAL	#VALUE!	mg/kg	mg/kg																					
7439-89-6	Iron	SOLID - INITIAL	44.05	mg/kg	mg/kg																					
7439-95-4	Magnesium	SOLID - INITIAL	0.00	mg/kg	mg/kg																					
7439-98-7	Molybdenum	SOLID - INITIAL	0.10	mg/kg	mg/kg																					
2023695	Potassium	SOLID - INITIAL	0.00	mg/kg	mg/kg																					
7440-23-5	Sodium	SOLID - INITIAL	263.64	mg/kg	mg/kg																					
7440-70-2	Calcium	SOLID - INITIAL	0.00	mg/kg	mg/kg																					
P1238	Ammoniacal Nitrogen as N	SOLID - INITIAL	0.11	mg/kg	mg/kg																					
P1286	Manganese	SOLID - INITIAL	2.51	mg/kg	mg/kg																					
100-01-6	4-Nitroaniline	SOLID - INITIAL	0.00	mg/kg	ug/kg																					
101-55-3	4-Bromophenyl Phenyl Ether	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					

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Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	Hole Ref	ARP16-LF-BH06	ARP16-LF-BH06	ARP16-LF-BH06	ARP16-LF-BH06	ARP16-LF-BH07	ARP16-LF-BH07	ARP16-LF-BH07	ARP16-LF-BH07	ARP16-LF-BH07	ARP16-LF-BH08	ARP16-LF-BH08	ARP16-LF-BH08	ARP16-LF-BH08	ARP16-LF-BH08	ARP16-LF-BH09	ARP16-LF-BH09	ARP16-LF-BH09	ARP16-LF-BH09	ARP16-LF-BH10	ARP16-LF-BH10
						Sample Top	10.50	2.00	5.00	8.00	1.50	12.55	15.20	3.50	6.00	15.40	18.40	3.40	6.40	9.40	0.40	3.40	6.40	9.40	0.25	1.00
Lookup soil	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF
Sample Ref	4	1	2	3	1	5	6	2	3	6	7	2	3	4	1	2	3	4	1	2	3	4	1	2		
Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
103-33-3	Azobenzene	SOLID - INITIAL	0.38	mg/kg	ug/kg																					
106-47-8	4-Chloroaniline	SOLID - INITIAL	0.01	mg/kg	ug/kg																					
700-57-23	4-Chlorophenylphenylether	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					
88-74-4	2-Nitroaniline	SOLID - INITIAL	0.01	mg/kg	ug/kg																					
99-09-2	3-Nitroaniline	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					
994-05-8	Tertiary Amyl Methyl Ether	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					
1336-36-6	PCB Total (WAC only)	SOLID	#N/A	mg/kg	mg/kg																					
P1330	BTEX (total) WAC	SOLID	#N/A	mg/kg	mg/kg																					

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Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	Hole Ref	ARP16-LF-BH10	ARP16-LF-BH10	ARP16-LF-BH11	ARP16-LF-BH12	ARP16-LF-BH12	ARP16-LF-BH12	ARP16-LF-BH12A	ARP16-LF-BH12A	ARP16-LF-BH12A	ARP16-LF-BH13	ARP16-LF-BH13	ARP16-MPT-BH101	ARP16-MPT-BH101	ARP16-MPT-BH101	ARP16-MPT-BH101	ARP16-MPT-BH102	ARP16-MPT-BH102	ARP16-MPT-BH102	ARP16-MPT-BH102	ARP16-MPT-BH102
						Sample Top	Lookup soil	Sample Ref	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
71-55-6	1,1,1-Trichloroethane	SOLID	#N/A	mg/kg	ug/kg			<1			<1														<1	<1
7440-39-3	Barium	SOLID	78.73	mg/kg	mg/kg											114.0	21.0									
74-83-9	Bromomethane	SOLID	#N/A	mg/kg	ug/kg			<1			<1													<1	<1	
74-87-3	Chloromethane	SOLID	0.02	mg/kg	ug/kg			<10			<10													<10	<10	
74-95-3	Dibromomethane	SOLID	#N/A	mg/kg	ug/kg			<1			<1													<1	<1	
74-97-5	Bromochloromethane	SOLID	#N/A	mg/kg	ug/kg			<5			<5													<5	<5	
75-00-3	Chloroethane	SOLID	#N/A	mg/kg	ug/kg			<1			<1													<1	<1	
75-01-4	Vinyl Chloride	SOLID	#N/A	mg/kg	ug/kg			<1			<1													<1	<1	
75-09-2	Dichloromethane	SOLID	0.03	mg/kg	ug/kg			<5			<5													<10	<10	
75-15-0	Carbon Disulphide	SOLID	0.07	mg/kg	ug/kg			<1			7.0													<1	<1	
75-25-2	Bromoform	SOLID	#N/A	mg/kg	ug/kg			<1			<1													<1	<1	
75-27-4	Bromodichloromethane	SOLID	#N/A	mg/kg	ug/kg			<10			<10													<10	<10	
75-34-3	1,1-Dichloroethane	SOLID	0.01	mg/kg	ug/kg			<1			<1													<1	<1	
75-35-4	1,1-Dichloroethene	SOLID	#N/A	mg/kg	ug/kg			<1			<1													<1	<1	
75-69-4	Trichlorofluoromethane	SOLID	0.05	mg/kg	ug/kg			<1			<1													<1	<1	
75-71-8	Dichlorodifluoromethane	SOLID	#N/A	mg/kg	ug/kg			<1			<1													<1	<1	
77-47-4	Hexachlorocyclopentadiene	SOLID	#N/A	mg/kg	ug/kg			<100			<100													<100	<100	
78-59-1	Isophorone	SOLID	22.26	mg/kg	ug/kg			<100			<100													<100	<100	
78-87-5	1,2-Dichloropropane	SOLID	#N/A	mg/kg	ug/kg			<1			<1													<1	<1	
79-00-5	1,1,2-Trichloroethane	SOLID	#N/A	mg/kg	ug/kg			<1			<1													<1	<1	
79-01-6	Trichloroethene	SOLID	0.09	mg/kg	ug/kg			<1			<1													<1	<1	
79-34-5	1,1,2,2-Tetrachloroethane	SOLID	2.66	mg/kg	ug/kg			<1			<1													<1	<1	
84-66-2	Diethyl phthalate	SOLID	3.11	mg/kg	ug/kg			<100			<100													<100	<100	
84-74-2	Di-N-Butyl Phthalate	SOLID	0.52	mg/kg	ug/kg			<100			<100													<100	<100	
85-68-7	Butylbenzyl phthalate	SOLID	23.36	mg/kg	ug/kg			<100			<100													<100	<100	
86-74-8	Carbazole	SOLID	0.01	mg/kg	ug/kg			<100			<100													<100	<100	
87-61-6	1,2,3-Trichlorobenzene	SOLID	#N/A	mg/kg	ug/kg			<3			<3													<3	<3	
87-68-3	Hexachlorobutadiene	SOLID	#N/A	mg/kg	ug/kg			<1			<1													<1	<1	
87-86-5	Pentachlorophenol	SOLID	2.17	mg/kg	ug/kg			<100			<100													<100	<100	
88-06-2	2,4,6-Trichlorophenol	SOLID	#N/A	mg/kg	ug/kg			<100			<100													<100	<100	
88-75-5	2-Nitrophenol	SOLID	0.03	mg/kg	ug/kg			<100			<100													<100	<100	
91-57-6	2-Methylnaphthalene (SVOC) DEFAULT	SOLID	0.84	mg/kg	ug/kg			<100			<100													<100	<100	
91-58-7	2-Chloronaphthalene	SOLID	0.92	mg/kg	ug/kg			<100			<100													<100	<100	
95-47-6	Xylene	SOLID	0.23	mg/kg	ug/kg			<1			1.0													<1	<1	
95-48-7	2-Methylphenol	SOLID	0.54	mg/kg	ug/kg			<100			<100													<100	<100	
95-49-8	2-Chlorotoluene	SOLID	#N/A	mg/kg	ug/kg			<1			<1													<1	<1	
95-50-1	1,2-Dichlorobenzene	SOLID	40.42	mg/kg	ug/kg			<1			<1													<1	<1	
95-57-8	2-Chlorophenol	SOLID	#N/A	mg/kg	ug/kg			<100			<100													<100	<100	
95-63-6	1,2,4-Trimethylbenzene	SOLID	0.25	mg/kg	ug/kg			<1			1.0													<1	<1	
95-95-4	2,4,5-Trichlorophenol	SOLID	60.93	mg/kg	ug/kg			<100			<100													<100	<100	
96-12-8	1,2-Dibromo-3-chloropropane	SOLID	#N/A	mg/kg	ug/kg			<2			<2													<2	<2	
96-18-4	1,2,3-Trichloropropane	SOLID	0.44	mg/kg	ug/kg			<1			<1													1.0	<1	
98-06-6	tert-Butylbenzene	SOLID	0.75	mg/kg	ug/kg			<2			<2													<2	<2	
98-82-8	Isopropylbenzene	SOLID	0.27	mg/kg	ug/kg			<1			3.0													<1	<1	
98-95-3	Nitrobenzene	SOLID	0.00	mg/kg	ug/kg			<100			<100													<100	<100	
99-87-6	4-Isopropyltoluene	SOLID	54.06	mg/kg	ug/kg			<1			1.0													<1	<1	
P1374	Xylene	SOLID	0.23	mg/kg	ug/kg			<1			4.0													<1	<1	
P1762	TPH Aromatic >C8-C10	SOLID	219.16	mg/kg	mg/kg		<0.01				<0.01						<0.01			<0.01				<0.01	<0.01	
P1763	TPH Aromatic >C8-C10	SOLID	219.16	mg/kg	mg/kg		<0.01				0.1						<0.01			<0.01				<0.01	<0.01	
P1334	pH	SOLID	#N/A	mg/kg	pH		8.1	8.0	7.2	8.1	8.0	8.2	7.9	7.8	7.9			11.7	11.2	10.1	8.5			8.4	8.3	
101-21-3	Chlorpropham	SOLID	#N/A	mg/kg	mg/kg		<0.1				<0.1															
1014-70-6	Simetryn SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg		<50				<50															
1024-57-3	Heptachlor Epoxide	SOLID	#N/A	mg/kg	ug/kg		<50				<50															
1031-07-8	Endosulphan Sulphate	SOLID	#N/A	mg/kg	ug/kg		<50				<50															
117-18-0	Tecnazene	SOLID	#N/A	mg/kg	ug/kg		<50				<50															
120-36-5	2,4-DP; (Dichlorprop)	SOLID	#N/A	mg/kg	mg/kg		<0.1				<0.1															
121-75-5	Malathion	SOLID	#N/A	mg/kg	ug/kg		<50				<50															
122-14-5	Fenitrothion	SOLID	#N/A	mg/kg	ug/kg		<50				<50															
122-34-9	Simazine SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg		<50				<50															
122-42-9	Propham	SOLID	#N/A	mg/kg	mg/kg		<0.1				<0.1															
122-88-3	4-CPA	SOLID	#N/A	mg/kg	mg/kg		<0.1				<0.1															
13684-63-4	Phenmedipham	SOLID	#N/A	mg/kg	mg/kg		<0.1				<0.1															
139-40-2	Propazine SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg		<50				<50															
1461-22-9	Tributyltin SUBCON i2	SOLID	#N/A	mg/kg	ug/kg																					

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Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	Hole Ref	ARP16-LF-BH10	ARP16-LF-BH10	ARP16-LF-BH11	ARP16-LF-BH12	ARP16-LF-BH12	ARP16-LF-BH12	ARP16-LF-BH12A	ARP16-LF-BH12A	ARP16-LF-BH12A	ARP16-LF-BH13	ARP16-LF-BH13	ARP16-MPT-BH101	ARP16-MPT-BH101	ARP16-MPT-BH101	ARP16-MPT-BH101	ARP16-MPT-BH102	ARP16-MPT-BH102	ARP16-MPT-BH102	ARP16-MPT-BH102	ARP16-MPT-BH102	
						Sample Top	Lookup soil	Sample Ref	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
1610-18-0	Prometon SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg	<50																					
16118-49-3	Carbetamide	SOLID	#N/A	mg/kg	mg/kg	<0.1																					
1689-83-4	loxynil	SOLID	#N/A	mg/kg	mg/kg	<0.1																					
1689-84-5	Bromoxynil	SOLID	#N/A	mg/kg	mg/kg	<0.1																					
1702-17-6	Clopyralid	SOLID	#N/A	mg/kg	mg/kg	<0.1																					
1746-81-2	Monolinuron	SOLID	#N/A	mg/kg	mg/kg	<0.1																					
18691-97-9	Methabenzthiazuron	SOLID	#N/A	mg/kg	mg/kg	<0.1																					
1897-45-6	Chlorothalonil	SOLID	#N/A	mg/kg	ug/kg	<50																					
1912-24-9	Atrazine SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg	<50																					
1918-00-9	Dicamba	SOLID	#N/A	mg/kg	mg/kg	<0.1																					
6607	Picloram	SOLID	#N/A	mg/kg	mg/kg	<0.1																					
1967-16-4	Chlorbufam	SOLID	#N/A	mg/kg	mg/kg	<0.1																					
1982-47-4	Chloroxuron	SOLID	#N/A	mg/kg	mg/kg	<0.1																					
19937-59-8	Metoxuron	SOLID	#N/A	mg/kg	mg/kg	<0.1																					
2132-70-9	p,p-Methoxychlor	SOLID	#N/A	mg/kg	ug/kg	<50																					
2274-67-1	Chlorpyrifos-methyl	SOLID	#N/A	mg/kg	ug/kg	<50																					
2303-17-5	Triallate	SOLID	#N/A	mg/kg	ug/kg	<50																					
2310-17-0	Phosalone	SOLID	#N/A	mg/kg	ug/kg	<50																					
23103-98-2	Pirimicarb	SOLID	#N/A	mg/kg	mg/kg	<0.1																					
24017-47-8	Triazophos	SOLID	#N/A	mg/kg	ug/kg	<50																					
25057-89-0	Bentazone	SOLID	#N/A	mg/kg	mg/kg	<0.1																					
2642-71-9	Azinphos-ethyl	SOLID	#N/A	mg/kg	ug/kg	<50																					
2921-88-2	Chlorpyrifos	SOLID	#N/A	mg/kg	ug/kg	<50																					
29232-93-7	Pirimiphos Methyl	SOLID	#N/A	mg/kg	ug/kg	<50																					
297-78-9	Telodrin	SOLID	#N/A	mg/kg	ug/kg	<50																					
298-00-0	Methyl Parathion	SOLID	#N/A	mg/kg	ug/kg	<50																					
298-01-1	Mevinphos	SOLID	#N/A	mg/kg	ug/kg	<50																					
298-04-4	Disulfoton SUBCON OCP Alcontrol	SOLID	#N/A	mg/kg	ug/kg	<50																					
29973-13-5	Ethiofencarb	SOLID	#N/A	mg/kg	mg/kg	<0.1																					
30667-99-3	o,p-Methoxychlor	SOLID	#N/A	mg/kg	ug/kg	<50																					
309-00-2	Aldrin SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg	<50																					
31218-83-4	Propetamphos	SOLID	#N/A	mg/kg	ug/kg	<50																					
314-40-9	Bromacil	SOLID	#N/A	mg/kg	mg/kg	<0.1																					
319-84-6	alpha-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg	<50																					
319-85-7	beta-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg	<50																					
330-54-1	Diuron SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg	<0.1																					
330-55-2	Linuron	SOLID	#N/A	mg/kg	mg/kg	<0.1																					
33213-65-9	Endosulphan II	SOLID	#N/A	mg/kg	ug/kg	<50																					
333-41-5	Diazinon	SOLID	#N/A	mg/kg	ug/kg	<50																					
34123-59-6	Isoproturon	SOLID	#N/A	mg/kg	mg/kg	<0.1																					
34205-21-5	Dimefuron	SOLID	#N/A	mg/kg	mg/kg	<0.1																					
3424-82-6	o,p-DDE	SOLID	#N/A	mg/kg	ug/kg	<50																					
35367-38-5	Diflufenzuron	SOLID	#N/A	mg/kg	mg/kg	<0.1																					
698836	Benazolin	SOLID	#N/A	mg/kg	mg/kg	<0.1																					
38260-54-7	Etrimpfos	SOLID	#N/A	mg/kg	ug/kg	<50																					
40483-25-2	Diclofop	SOLID	#N/A	mg/kg	mg/kg	<0.1																					
40487-42-1	Pendimethalin	SOLID	#N/A	mg/kg	ug/kg	<50																					
43121-43-3	Triadimefon	SOLID	#N/A	mg/kg	ug/kg	<50																					
465-73-6	Isodrin	SOLID	#N/A	mg/kg	ug/kg	<50																					
470-90-6	Chlorfenvinphos	SOLID	#N/A	mg/kg	ug/kg	<50																					
50-29-3	p,p-DDT SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg	<50																					
50-31-7	2,3,6-TBA	SOLID	#N/A	mg/kg	mg/kg	<0.1																					
5103-71-9	cis-Chlordane SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg	<50																					
5103-74-2	trans-Chlordane SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg	<50																					
51630-58-1	Fenvalerate SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg	<0.1																					
52315-07-8	Cypermethrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg	<0.1																					
52645-53-1	Permethrin SUBCON RPS MH Pyrethroids	SOLID	#N/A	mg/kg	mg/kg	<0.1																					
52756-22-6	Flamprop-isopropyl	SOLID	#N/A	mg/kg	mg/kg	<0.1																					
52918-63-5	Deltamethrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg	<0.1																					
53-19-0	o,p-TDE (DDD)	SOLID	#N/A	mg/kg	ug/kg	<50																					
55335-06-3	Triclopyr	SOLID	#N/A	mg/kg	mg/kg	<0.1																					
55-38-9	Fenthion	SOLID	#N/A	mg/kg	ug/kg	<50																					
563-12-2	Ethion	SOLID	#N/A	mg/kg	ug/kg	<50																					
56-38-2	Parathion (Ethyl Parathion)	SOLID	#N/A	mg/kg	ug/kg	<50																					
58667-63-3	Fiamprop	SOLID	#N/A	mg/kg	mg/kg	<0.1																					

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Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	Hole Ref	ARP16-LF-BH10	ARP16-LF-BH10	ARP16-LF-BH11	ARP16-LF-BH12	ARP16-LF-BH12	ARP16-LF-BH12	ARP16-LF-BH12A	ARP16-LF-BH12A	ARP16-LF-BH12A	ARP16-LF-BH13	ARP16-LF-BH13	ARP16-MPT-BH101	ARP16-MPT-BH101	ARP16-MPT-BH101	ARP16-MPT-BH101	ARP16-MPT-BH102	ARP16-MPT-BH102	ARP16-MPT-BH102	ARP16-MPT-BH102	ARP16-MPT-BH102	
						Sample Top	Lookup soil	Sample Ref	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
31508-00-6	PCB-118 2,3',4,4',5 - Pentachlorobiphenyl	SOLID - INITIAL	694.02	mg/kg	ng/g																						
32598-13-3	PCB 77	SOLID - INITIAL	6185.41	mg/kg	ng/g																						
32598-14-4	PCB 105	SOLID - INITIAL	8940.63	mg/kg	ng/g																						
3268-87-9	Octachlorodibenzo-p-dioxin	SOLID - INITIAL	91923.81	mg/kg	ng/g																						
32774-16-6	PCB 169	SOLID - INITIAL	37270.75	mg/kg	ng/g																						
3380-34-5	Triclosan	SOLID - INITIAL	0.33	mg/kg	mg/kg																						
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-P-Dioxin	SOLID - INITIAL	91923.81	mg/kg	ng/g																						
38380-08-4	PCB-156 2,3,3,4,4,5 - Hexachlorobiphenyl	SOLID - INITIAL	3172.26	mg/kg	ng/g																						
39001-02-0	Octachlorodibenzofuran	SOLID - INITIAL	46180.43	mg/kg	ng/g																						
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-P-Dioxin	SOLID - INITIAL	36595.53	mg/kg	ng/g																						
39635-31-9	PCB 189	SOLID - INITIAL	270002.64	mg/kg	ng/g																						
40321-76-4	1,2,3,7,8-Pentachlorodibenzo-P-Dioxin	SOLID - INITIAL	#N/A	mg/kg	ng/g																						
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	SOLID - INITIAL	393.06	mg/kg	ng/g																						
52645-53-1	Permethrin	SOLID - INITIAL	#N/A	mg/kg	ug/kg																						
52663-72-6	PCB 167	SOLID - INITIAL	45853.03	mg/kg	ng/g																						
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	SOLID - INITIAL	9648.46	mg/kg	ng/g																						
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	SOLID - INITIAL	964.85	mg/kg	ng/g																						
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	SOLID - INITIAL	715.25	mg/kg	ng/g																						
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	SOLID - INITIAL	715.25	mg/kg	ng/g																						
57465-28-8	PCB 126	SOLID - INITIAL	8940.63	mg/kg	ng/g																						
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-P-Dioxin	SOLID - INITIAL	91923.81	mg/kg	ng/g																						
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofura	SOLID - INITIAL	715.25	mg/kg	ng/g																						
62476-59-9	Acifluorfen	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
65510-44-3	PCB 123	SOLID - INITIAL	8940.63	mg/kg	ng/g																						
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	SOLID - INITIAL	715.25	mg/kg	ng/g																						
69782-90-7	PCB 157	SOLID - INITIAL	45853.03	mg/kg	ng/g																						
70362-50-4	PCB 81	SOLID - INITIAL	8940.63	mg/kg	ng/g																						
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	SOLID - INITIAL	715.25	mg/kg	ng/g																						
7085-19-0	mecoprop	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
72-43-5	Methoxychlor	SOLID - INITIAL	#N/A	mg/kg	ug/kg																						
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	SOLID - INITIAL	#N/A	mg/kg	ng/g																						
74472-37-0	PCB 114	SOLID - INITIAL	8940.63	mg/kg	ng/g																						
88-85-7	Dinoseb	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
892-20-6	Triphenyltin	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
P1330	BTEX	SOLID - INITIAL	0.00	mg/kg	ug/kg																						
P1354	TPH Aromatic >C6-C7	SOLID - INITIAL	0.05	mg/kg	ug/kg																						
P1355	TPH Aromatics > C7-C8	SOLID - INITIAL	#N/A	mg/kg	ug/kg																						
P1356	Aromatics >C8-10	SOLID - INITIAL	#N/A	mg/kg	ug/kg																						
P1357	Aromatics >C10-12	SOLID - INITIAL	#N/A	mg/kg	ug/kg																						
P1358	Aromatics >C12-16	SOLID - INITIAL	#N/A	mg/kg	ug/kg																						
P1359	Aromatics >C16-21	SOLID - INITIAL	#N/A	mg/kg	ug/kg																						
P1360	Aromatics >C21-35	SOLID - INITIAL	#N/A	mg/kg	ug/kg																						
P1362	Aromatics >C35-44	SOLID - INITIAL	#N/A	mg/kg	ug/kg																						
P1407	Aliphatics >C5-6	SOLID - INITIAL	#N/A	mg/kg	ug/kg																						
P1408	Aliphatics >C6-8	SOLID - INITIAL	#N/A	mg/kg	ug/kg																						
P1409	Aliphatics >C8-10	SOLID - INITIAL	#N/A	mg/kg	ug/kg																						
P1410	Aliphatics >C10-12	SOLID - INITIAL	#N/A	mg/kg	ug/kg																						
P1411	Aliphatics >C12-16	SOLID - INITIAL	#N/A	mg/kg	ug/kg																						
P1412	Aliphatics >C16-21	SOLID - INITIAL	#N/A	mg/kg	ug/kg																						
P1413	Aliphatics >C21-35	SOLID - INITIAL	#N/A	mg/kg	ug/kg																						
P1415	Aliphatics >C35-44	SOLID - INITIAL	#N/A	mg/kg	ug/kg																						
15541-45-4	Bromate	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
16065-83-1	Trivalent Chromium	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
16887-00-6	Chloride	SOLID - INITIAL	268.18	mg/kg	mg/kg																						
16984-48-8	Fluoride	SOLID - INITIAL	0.41	mg/kg	mg/kg																						
18496-25-8	Sulphide	SOLID - INITIAL	#VALUE!	mg/kg	mg/kg																						
24959-67-9	Bromide	SOLID - INITIAL	#VALUE!	mg/kg	mg/kg																						
7439-89-6	Iron	SOLID - INITIAL	44.05	mg/kg	mg/kg																						
7439-95-4	Magnesium	SOLID - INITIAL	0.00	mg/kg	mg/kg																						
7439-98-7	Molybdenum	SOLID - INITIAL	0.10	mg/kg	mg/kg																						
2023695	Potassium	SOLID - INITIAL	0.00	mg/kg	mg/kg																						
7440-23-5	Sodium	SOLID - INITIAL	263.64	mg/kg	mg/kg																						
7440-70-2	Calcium	SOLID - INITIAL	0.00	mg/kg	mg/kg																						
P1238	Ammoniacal Nitrogen as N	SOLID - INITIAL	0.11	mg/kg	mg/kg																						
P1286	Manganese	SOLID - INITIAL	2.51	mg/kg	mg/kg																						
100-01-6	4-Nitroaniline	SOLID - INITIAL	0.00	mg/kg	ug/kg																						
101-55-3	4-Bromophenyl Phenyl Ether	SOLID - INITIAL	#N/A	mg/kg	ug/kg																						

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Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	Hole Ref	ARP16-LF-BH10	ARP16-LF-BH10	ARP16-LF-BH11	ARP16-LF-BH12	ARP16-LF-BH12	ARP16-LF-BH12	ARP16-LF-BH12A	ARP16-LF-BH12A	ARP16-LF-BH12A	ARP16-LF-BH13	ARP16-LF-BH13	ARP16-MPT-BH101	ARP16-MPT-BH101	ARP16-MPT-BH101	ARP16-MPT-BH101	ARP16-MPT-BH102	ARP16-MPT-BH102	ARP16-MPT-BH102	ARP16-MPT-BH102	ARP16-MPT-BH102														
						Sample Top	4.00	7.00	0.15	0.50	3.50	6.50	1.00	4.00	7.00	0.00	9.60	0.30	0.70	1.60	2.50	0.40	1.50	2.50	6.00	6.50	Lookup soil	MG	HEAD	MG	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG	CHK	MG	MG	MG
Sample Ref	3	4	1	1	2	3	1	2	3	1	2	3	1	4	1	2	3	4	1	2	3	1	2	3	1	1														
103-33-3	Azobenzene	SOLID - INITIAL	0.38	mg/kg	ug/kg	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES														
106-47-8	4-Chloroaniline	SOLID - INITIAL	0.01	mg/kg	ug/kg																																			
700-57-23	4-Chlorophenylphenylether	SOLID - INITIAL	#N/A	mg/kg	ug/kg																																			
88-74-4	2-Nitroaniline	SOLID - INITIAL	0.01	mg/kg	ug/kg																																			
99-09-2	3-Nitroaniline	SOLID - INITIAL	#N/A	mg/kg	ug/kg																																			
994-05-8	Tertiary Amyl Methyl Ether	SOLID - INITIAL	#N/A	mg/kg	ug/kg																																			
1336-36-6	PCB Total (WAC only)	SOLID	#N/A	mg/kg	mg/kg																																			
P1330	BTEX (total) WAC	SOLID	#N/A	mg/kg	mg/kg																																			

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G2 RTM Level 1 - Soils

Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	Hole Ref																			
						ARP16-MPT BH102	ARP16-MPT BH102	ARP16-MPT BH103	ARP16-MPT BH103	ARP16-MPT BH104	ARP16-MPT BH104	ARP16-MPT BH106	ARP16-MPT BH106	ARP16-MPT BH107	ARP16-MPT BH107	ARP16-MPT BH107	ARP16-MPT BH109	ARP16-MPT BH109	ARP16-MPT BH109	ARP16-MPT BH110	ARP16-MPT BH110	ARP16-MPT BH110	ARP16-MPT BH111	ARP16-MPT BH111	ARP16-MPT BH111
						7.00	8.00	0.30	0.60	0.30	1.00	0.30	0.50	0.30	1.00	1.80	0.10	0.80	3.50	0.10	0.25	11.00	0.30	0.60	1.20
						CHK	CHK	MG	MG	MG	CHK	TS	CHK	HEAD	HEAD	HEAD	MG	HEAD	HEAD	MG	MG	CHK	MG	MG	CWF
						2	3	1	2	1	2	1	2	1	2	3	1	2	3	1	2	3	1	2	3
100-41-4	Ethylbenzene	SOLID - INITIAL	0.53	mg/kg	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
108-88-3	Toluene	SOLID - INITIAL	0.88	mg/kg	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
120-12-7	Anthracene	SOLID - INITIAL	0.16	mg/kg	mg/kg	<0.02	<0.02	0.3	<0.02	<0.02	<0.02					<0.02	0.2	<0.02	0.6	0.1	<0.02	<0.20	<0.02	<0.02	<0.02
129-00-0	Pyrene	SOLID - INITIAL	1.88	mg/kg	mg/kg	<0.07	<0.07	2.9	<0.07	0.2	<0.07					<0.07	0.4	<0.07	6.0	0.3	<0.07	<0.70	<0.07	<0.07	<0.07
1330-20-7	Xylene	SOLID - INITIAL	0.23	mg/kg	mg/kg																				
191-24-2	Benzo(g,h,i)perylene	SOLID - INITIAL	2.42	mg/kg	mg/kg	<0.05	<0.05	1.3	<0.05	0.1	<0.05					<0.05	0.1	<0.05	2.1	0.1	<0.05	<0.50	<0.05	<0.05	<0.05
193-39-5	Indeno(1,2,3-cd)pyrene	SOLID - INITIAL	0.51	mg/kg	mg/kg	<0.03	<0.03	1.5	<0.03	0.1	<0.03					<0.03	0.1	<0.03	2.4	0.1	<0.03	<0.30	<0.03	<0.03	<0.03
205-99-2	Benzo(b)fluoranthene	SOLID - INITIAL	0.61	mg/kg	mg/kg	<0.05	<0.05	3.0	<0.05	0.2	<0.05					<0.05	0.1	<0.05	4.1	0.2	<0.05	<0.50	<0.05	<0.05	<0.05
206-44-0	Fluoranthene	SOLID - INITIAL	0.01	mg/kg	mg/kg	<0.08	<0.08	2.8	<0.08	0.1	<0.08					<0.08	0.5	<0.08	7.0	0.3	<0.08	<0.80	<0.08	<0.08	<0.08
207-08-9	Benzo(k)fluoranthene	SOLID - INITIAL	0.86	mg/kg	mg/kg	<0.07	<0.07	1.0	<0.07	<0.07	<0.07					<0.07	<0.07	<0.07	1.3	<0.07	<0.07	<0.70	<0.07	<0.07	<0.07
208-96-8	Acenaphthylene	SOLID - INITIAL	1.01	mg/kg	mg/kg	<0.01	<0.01	0.2	<0.01	<0.01	<0.01					<0.01	<0.01	<0.01	0.0	<0.01	<0.01	<0.10	<0.01	<0.01	<0.01
218-01-9	Chrysene	SOLID - INITIAL	6.38	mg/kg	mg/kg	<0.06	<0.06	1.9	<0.06	0.1	<0.06					<0.06	0.2	<0.06	3.4	0.2	<0.06	<0.60	<0.06	<0.06	<0.06
50-32-8	Benzo(a)pyrene	SOLID - INITIAL	0.07	mg/kg	mg/kg	<0.04	<0.04	2.5	<0.04	0.1	<0.04					<0.04	0.1	<0.04	3.2	0.1	<0.04	<0.40	<0.04	<0.04	<0.04
53-70-3	Dibenzo(a,h)anthracene	SOLID - INITIAL	10.80	mg/kg	mg/kg	<0.04	<0.04	0.3	<0.04	<0.04	<0.04					<0.04	<0.04	<0.04	0.4	<0.04	<0.04	<0.40	<0.04	<0.04	<0.04
56-55-3	Benzo(a)anthracene	SOLID - INITIAL	4.50	mg/kg	mg/kg	<0.04	<0.04	1.7	<0.04	0.1	<0.04					<0.04	0.2	<0.04	3.2	0.2	<0.04	<0.40	<0.04	<0.04	<0.04
57-12-5	Cyanide	SOLID - INITIAL	0.26	mg/kg	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
71-43-2	Benzene	SOLID - INITIAL	0.0043	mg/kg	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
7439-92-1	Lead	SOLID - INITIAL	10.00	mg/kg	mg/kg	2.0	3.0	44.0	6.0	67.0	3.0	58.0	6.0	23.0	27.0	6.0	17.0	19.0	3.0	43.0	16.0	3.0	5.0	38.0	20.0
7439-97-6	Mercury	SOLID - INITIAL	0.50	mg/kg	mg/kg	0.4	0.5	0.3	0.4	0.2	0.4	<0.17	0.7	<0.17	<0.17	0.8	<0.17	<0.17	0.6	<0.17	<0.17	0.6	<0.17	<0.17	<0.17
7440-02-0	Nickel	SOLID - INITIAL	10.01	mg/kg	mg/kg	3.0	2.0	13.0	5.0	18.0	3.0	30.0	7.0	23.0	21.0	10.0	17.0	26.0	11.0	16.0	35.0	11.0	7.0	5.0	23.0
7440-36-0	Antimony	SOLID - INITIAL	1.26	mg/kg	mg/kg	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
7440-38-2	Arsenic	SOLID - INITIAL	5.00	mg/kg	mg/kg	<1	<1	3.0	<1	6.0	<1	6.0	<1	9.0	9.0	<1	6.0	4.0	<1	6.0	8.0	<1	<1	2.0	11.0
7440-41-7	Beryllium	SOLID - INITIAL	5.04	mg/kg	mg/kg	<1	<1	<1	<1	1.0	<1	1.0	<1	1.0	1.0	<1	1.0	1.0	<1	1.0	1.0	<1	<1	<1	1.0
7440-42-8	Boron	SOLID - INITIAL	8.69	mg/kg	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.9	<1.0	<1.0	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
7440-43-9	Cadmium	SOLID - INITIAL	0.50	mg/kg	mg/kg	<0.5	<0.5	0.6	<0.5	0.6	<0.5	1.3	<0.5	1.2	1.0	<0.5	1.8	1.7	0.5	1.7	3.3	0.7	0.9	1.5	3.2
7440-47-3	Chromium	SOLID - INITIAL	315.49	mg/kg	mg/kg	3.0	2.0	14.0	3.0	19.0	3.0	25.0	6.0	48.0	42.0	9.0	30.0	28.0	10.0	19.0	61.0	13.0	11.0	6.0	48.0
7440-50-8	Copper	SOLID - INITIAL	1002.92	mg/kg	mg/kg	3.0	2.0	20.0	5.0	45.0	3.0	29.0	4.0	16.0	17.0	6.0	10.0	17.0	5.0	23.0	17.0	7.0	17.0	81.0	30.0
7440-62-2	Vanadium	SOLID - INITIAL	1.01	mg/kg	mg/kg	3.0	2.0	13.0	4.0	22.0	4.0	36.0	8.0	74.0	64.0	10.0	38.0	42.0	13.0	34.0	89.0	19.0	32.0	39.0	76.0
7440-66-6	Zinc	SOLID - INITIAL	2507.30	mg/kg	mg/kg	8.0	5.0	53.0	13.0	106.0	9.0	112.0	20.0	56.0	55.0	29.0	37.0	56.0	24.0	141.0	61.0	36.0	21.0	35.0	48.0
7782-49-2	Selenium	SOLID - INITIAL	0.50	mg/kg	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
83-32-9	Acenaphthene	SOLID - INITIAL	965.39	mg/kg	mg/kg	<0.01	<0.01	0.1	<0.01	<0.01	<0.01					<0.01	0.2	<0.01	0.3	0.0	<0.01	<0.10	<0.01	<0.01	<0.01
85-01-8	Phenanthrene	SOLID - INITIAL	3.35	mg/kg	mg/kg	<0.03	<0.03	1.0	<0.03	0.1	<0.03					<0.03	0.7	<0.03	2.7	0.2	<0.03	<0.30	<0.03	<0.03	<0.03
86-73-7	Fluorene	SOLID - INITIAL	1.76	mg/kg	mg/kg	<0.01	<0.01	0.1	<0.01	<0.01	<0.01					<0.01	0.2	<0.01	0.2	<0.01	<0.01	<0.10	<0.01	<0.01	<0.01
91-20-3	Napthalene	SOLID - INITIAL	0.08	mg/kg	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03					<0.03	0.1	<0.03	0.0	<0.03	<0.03	<0.30	<0.03	<0.03	<0.03
P1186	Phenol	SOLID - INITIAL	0.04	mg/kg	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.3	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
P1310	Pah, Total	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
P1334	pH	SOLID - INITIAL	#N/A	mg/kg	pH Units																				
P1355	TPH Aromatic >C7-C8	SOLID - INITIAL	10.42	mg/kg	mg/kg	<0.01	<0.01															<0.01		<0.01	
P1356	TPH Aromatic >C8-C10	SOLID - INITIAL	219.16	mg/kg	mg/kg																				
P1357	TPH Aromatic >C10-C12	SOLID - INITIAL	16.54	mg/kg	mg/kg	<0.1	<0.1															<0.1		<0.1	
P1358	TPH Aromatic >C12-C16	SOLID - INITIAL	32.96	mg/kg	mg/kg	<0.1	<0.1															<0.1		<0.1	
P1359	TPH Aromatic >C16-C21	SOLID - INITIAL	82.76	mg/kg	mg/kg	<0.1	<0.1															<0.1		<0.1	
P1360	TPH Aromatic >C21-C35	SOLID - INITIAL	657.18	mg/kg	mg/kg	<0.1	<0.1															<0.1		<0.1	
P1407	TPH Aliphatic >C5-6	SOLID - INITIAL	654.68	mg/kg	mg/kg	<0.01	<0.01															<0.01		<0.01	
P1408	TPH Aliphatic >C6-8	SOLID - INITIAL	2946.18	mg/kg	mg/kg	0.1	0.0															<0.01		<0.01	
P1409	TPH Aliphatic >C8-10	SOLID - INITIAL	558.25	mg/kg	mg/kg	0.1	0.0															<0.01		<0.01	
P1410	TPH Aliphatic >C10-12	S																							

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Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	Hole Ref	ARP16-MPT BH102	ARP16-MPT BH102	ARP16-MPT BH103	ARP16-MPT BH103	ARP16-MPT BH104	ARP16-MPT BH104	ARP16-MPT BH106	ARP16-MPT BH106	ARP16-MPT BH107	ARP16-MPT BH107	ARP16-MPT BH107	ARP16-MPT BH109	ARP16-MPT BH109	ARP16-MPT BH109	ARP16-MPT BH110	ARP16-MPT BH110	ARP16-MPT BH110	ARP16-MPT BH111	ARP16-MPT BH111	ARP16-MPT BH111
						Sample Top	Lookup soil	Sample Ref	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
108-67-8	1,3,5-Trimethylbenzene	SOLID - INITIAL	0.15	mg/kg	mg/kg																					
108-86-1	Bromobenzene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
108-90-7	Chlorobenzene	SOLID - INITIAL	4.46	mg/kg	mg/kg																					
108-95-2	Phenol	SOLID - INITIAL	0.04	mg/kg	mg/kg																					
111-91-1	Bis(2-chloroethoxy)methane	SOLID - INITIAL	0.01	mg/kg	mg/kg																					
117-81-7	Bis(2-ethylhexyl)phthalate	SOLID - INITIAL	18472.17	mg/kg	mg/kg																					
117-84-0	Di-N-Octyl Phthalate	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
118-74-1	Hexachlorobenzene (HCB)	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
120-82-1	1,2,4-Trichlorobenzene	SOLID - INITIAL	1.81	mg/kg	mg/kg																					
120-83-2	2,4-Dichlorophenol	SOLID - INITIAL	0.28	mg/kg	mg/kg																					
121-14-2	2,4-Dinitrotoluene	SOLID - INITIAL	0.00	mg/kg	mg/kg																					
122-39-4	Diphenylamine	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
124-48-1	Dibromochloromethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
127-18-4	Tetrachloroethene	SOLID - INITIAL	1.46	mg/kg	mg/kg																					
131-11-3	Dimethylphthalate	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
132-64-9	Dibenzofuran	SOLID - INITIAL	0.49	mg/kg	mg/kg																					
135-98-8	Sec-Butylbenzene	SOLID - INITIAL	1.39	mg/kg	mg/kg																					
142-28-9	1,3-Dichloropropane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
156-59-2	cis-1,2-Dichloroethene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
156-60-5	trans-1,2-Dichloroethene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
1634-04-4	Methyl tert-butyl ether (MTBE)	SOLID - INITIAL	#N/A	mg/kg	mg/kg	<0.01	<0.01																			
39638-32-9	Bis(2-chloroisopropyl)ether	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
528-29-0	O-Dinitrobenzene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
534-52-1	2-Methyl-4,6-Dinitrophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
541-73-1	1,3-Dichlorobenzene	SOLID - INITIAL	145.60	mg/kg	mg/kg																					
56-23-5	Tetrachloromethane (Carbon Tetra Chloride)	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
563-58-6	1,1-Dichloropropene	SOLID - INITIAL	0.41	mg/kg	mg/kg																					
58-90-2	2,3,4,6-Tetrachlorophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
594-20-7	2,2-Dichloropropane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
59-50-7	4-Chloro-3-Methylphenol	SOLID - INITIAL	2.93	mg/kg	mg/kg																					
606-20-2	2,6-Dinitrotoluene	SOLID - INITIAL	1.48	mg/kg	mg/kg																					
62-53-3	Aniline	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
630-20-6	1,1,1,2-Tetrachloroethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
67-66-3	Chloroform	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
700-57-23	4-Chlorophenyl Phenyl Ether	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
71-55-6	1,1,1-Trichloroethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
74-95-3	Dibromomethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
74-97-5	Bromochloromethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
75-01-4	Chloroethene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
75-25-2	Tribromomethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
75-27-4	Bromodichloromethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
75-34-3	1,1-Dichloroethane	SOLID - INITIAL	0.01	mg/kg	mg/kg																					
75-35-4	1,1-Dichloroethene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
77-47-4	Hexachlorocyclopentadiene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
78-87-5	1,2-Dichloropropane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
79-00-5	1,1,2-Trichloroethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
79-01-6	Trichloroethene	SOLID - INITIAL	0.09	mg/kg	mg/kg																					
84-66-2	Diethylphthalate	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
84-74-2	Di-N-Butyl Phthalate	SOLID - INITIAL	0.52	mg/kg	mg/kg																					
85-68-7	Butylbenzylphthalate	SOLID - INITIAL	23.36	mg/kg	mg/kg																					
86-74-8	Carbazole	SOLID - INITIAL	0.01	mg/kg	mg/kg																					
87-61-6	1,2,3 Trichlorobenzene	SOLID - INITIAL	0.26	mg/kg	mg/kg																					
87-68-3	Hexachlorobutadiene (HCBd)	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
87-86-5	Pentachlorophenol (PCP)	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
88-06-2	2,4,6-Trichlorophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
88-74-4	2-Nitroaniline	SOLID - INITIAL	0.01	mg/kg	mg/kg																					
91-57-6	2-Methylnaphthalene	SOLID - INITIAL	0.84	mg/kg	mg/kg																					
91-58-7	2-Chloronaphthalene	SOLID - INITIAL	0.92	mg/kg	mg/kg																					
935-95-5	2,3,5,6-Tetrachlorophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
95-47-6	Xylene	SOLID - INITIAL	0.23	mg/kg	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
95-48-7	2-Methylphenol	SOLID - INITIAL	0.54	mg/kg	mg/kg																					
95-49-8	2-Chlorotoluene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
95-50-1	1,2-Dichlorobenzene	SOLID - INITIAL	40.42	mg/kg	mg/kg																					
95-57-8	2-Chlorophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
95-63-6	1,2,4-Trimethylbenzene	SOLID - INITIAL	0.25	mg/kg	mg/kg																					
95-95-4	2,4,5-Trichlorophenol	SOLID - INITIAL	60.93	mg/kg	mg/kg																					
96-12-8	1,2-Dibromo-3-Chloropro																									

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Hole Ref	ARP16-MPT BH102	ARP16-MPT BH102	ARP16-MPT BH103	ARP16-MPT BH103	ARP16-MPT BH104	ARP16-MPT BH104	ARP16-MPT BH106	ARP16-MPT BH106	ARP16-MPT BH107	ARP16-MPT BH107	ARP16-MPT BH107	ARP16-MPT BH109	ARP16-MPT BH109	ARP16-MPT BH109	ARP16-MPT BH110	ARP16-MPT BH110	ARP16-MPT BH110	ARP16-MPT BH111	ARP16-MPT BH111	ARP16-MPT BH111
Sample Top	7.00	8.00	0.30	0.60	0.30	1.00	0.30	0.50	0.30	1.00	1.80	0.10	0.80	3.50	0.10	0.25	11.00	0.30	0.60	1.20
Lookup soil	CHK	CHK	MG	MG	MG	CHK	TS	CHK	HEAD	HEAD	HEAD	MG	HEAD	HEAD	MG	MG	CHK	MG	MG	CWF
Sample Ref	2	3	1	2	1	2	1	2	1	2	3	1	2	3	1	2	3	1	2	3
Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
1610-18-0	Prometon SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg															
16118-49-3	Carbetamide	SOLID	#N/A	mg/kg	mg/kg															
1689-83-4	loxynil	SOLID	#N/A	mg/kg	mg/kg															
1689-84-5	Bromoxynil	SOLID	#N/A	mg/kg	mg/kg															
1702-17-6	Clopyralid	SOLID	#N/A	mg/kg	mg/kg															
1746-81-2	Monolinuron	SOLID	#N/A	mg/kg	mg/kg															
18691-97-9	Methabenzthiazuron	SOLID	#N/A	mg/kg	mg/kg															
1897-45-6	Chlorothalonil	SOLID	#N/A	mg/kg	ug/kg															
1912-24-9	Atrazine SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg															
1918-00-9	Dicamba	SOLID	#N/A	mg/kg	mg/kg															
6607	Picloram	SOLID	#N/A	mg/kg	mg/kg															
1967-16-4	Chlorbufam	SOLID	#N/A	mg/kg	mg/kg															
1982-47-4	Chloroxuron	SOLID	#N/A	mg/kg	mg/kg															
19937-59-8	Metoxuron	SOLID	#N/A	mg/kg	mg/kg															
2132-70-9	p,p-Methoxychlor	SOLID	#N/A	mg/kg	ug/kg															
2274-67-1	Chlorpyrifos-methyl	SOLID	#N/A	mg/kg	ug/kg															
2303-17-5	Triallate	SOLID	#N/A	mg/kg	ug/kg															
2310-17-0	Phosalone	SOLID	#N/A	mg/kg	ug/kg															
23103-98-2	Pirimicarb	SOLID	#N/A	mg/kg	mg/kg															
24017-47-8	Triazophos	SOLID	#N/A	mg/kg	ug/kg															
25057-89-0	Bentazone	SOLID	#N/A	mg/kg	mg/kg															
2642-71-9	Azinphos-ethyl	SOLID	#N/A	mg/kg	ug/kg															
2921-88-2	Chlorpyrifos	SOLID	#N/A	mg/kg	ug/kg															
29232-93-7	Pirimiphos Methyl	SOLID	#N/A	mg/kg	ug/kg															
297-78-9	Telodrin	SOLID	#N/A	mg/kg	ug/kg															
298-00-0	Methyl Parathion	SOLID	#N/A	mg/kg	ug/kg															
298-01-1	Mevinphos	SOLID	#N/A	mg/kg	ug/kg															
298-04-4	Disulfoton SUBCON OCP Alcontrol	SOLID	#N/A	mg/kg	ug/kg															
29973-13-5	Ethiofencarb	SOLID	#N/A	mg/kg	mg/kg															
30667-99-3	o,p-Methoxychlor	SOLID	#N/A	mg/kg	ug/kg															
309-00-2	Aldrin SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg															
31218-83-4	Propetamphos	SOLID	#N/A	mg/kg	ug/kg															
314-40-9	Bromacil	SOLID	#N/A	mg/kg	mg/kg															
319-84-6	alpha-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg															
	beta-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg															
319-85-7		SOLID	#N/A	mg/kg	ug/kg															
330-54-1	Diuron SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg															
330-55-2	Linuron	SOLID	#N/A	mg/kg	mg/kg															
33213-65-9	Endosulphan II	SOLID	#N/A	mg/kg	ug/kg															
333-41-5	Diazinon	SOLID	#N/A	mg/kg	ug/kg															
34123-59-6	Isoproturon	SOLID	#N/A	mg/kg	mg/kg															
34205-21-5	Dimefuron	SOLID	#N/A	mg/kg	mg/kg															
3424-82-6	o,p-DDE	SOLID	#N/A	mg/kg	ug/kg															
35367-38-5	Diflufenzuron	SOLID	#N/A	mg/kg	mg/kg															
698836	Benazolin	SOLID	#N/A	mg/kg	mg/kg															
38260-54-7	Etrimpfos	SOLID	#N/A	mg/kg	ug/kg															
40483-25-2	Diclofop	SOLID	#N/A	mg/kg	mg/kg															
40487-42-1	Pendimethalin	SOLID	#N/A	mg/kg	ug/kg															
43121-43-3	Triadimefon	SOLID	#N/A	mg/kg	ug/kg															
465-73-6	Isodrin	SOLID	#N/A	mg/kg	ug/kg															
470-90-6	Chlorfenvinphos	SOLID	#N/A	mg/kg	ug/kg															
50-29-3	p,p-DDT SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg															
50-31-7	2,3,6-TBA	SOLID	#N/A	mg/kg	mg/kg															
5103-71-9	cis-Chlordane SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg															
5103-74-2	trans-Chlordane SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg															
51630-58-1	Fenvalerate SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg															
52315-07-8	Cypermethrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg															
52645-53-1	Permethrin SUBCON RPS MH Pyrethroids	SOLID	#N/A	mg/kg	mg/kg															
52756-22-6	Flamprop-isopropyl	SOLID	#N/A	mg/kg	mg/kg															
52918-63-5	Deltamethrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg															
53-19-0	o,p-TDE (DDD)	SOLID	#N/A	mg/kg	ug/kg															
55335-06-3	Triclopyr	SOLID	#N/A	mg/kg	mg/kg															
55-38-9	Fenthion	SOLID	#N/A	mg/kg	ug/kg															
563-12-2	Ethion	SOLID	#N/A	mg/kg	ug/kg															
56-38-2	Parathion (Ethyl Parathion)	SOLID	#N/A	mg/kg	ug/kg															
58667-63-3	Fiamprop	SOLID	#N/A	mg/kg	mg/kg															

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Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	ARP16-MPT	ARP16-MPT	ARP16-MPT	ARP16-MPT	ARP16-MPT	ARP16-MPT	ARP16-MPT	ARP16-MPT	ARP16-MPT	ARP16-MPT	ARP16-MPT	ARP16-MPT	ARP16-MPT	ARP16-MPT	ARP16-MPT	ARP16-MPT				
						BH102	BH102	BH103	BH103	BH104	BH104	BH106	BH106	BH107	BH107	BH107	BH109	BH109	BH109	BH110	BH110	BH110	BH111	BH111	BH111
						7.00	8.00	0.30	0.60	0.30	1.00	0.30	0.50	0.30	1.00	1.80	0.10	0.80	3.50	0.10	0.25	11.00	0.30	0.60	1.20
						CHK	CHK	MG	MG	MG	CHK	TS	CHK	HEAD	HEAD	HEAD	MG	HEAD	HEAD	MG	MG	CHK	MG	MG	CWF
						2	3	1	2	1	2	1	2	1	2	3	1	2	3	1	2	3	1	2	3
						ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
58-89-9	gamma-Hexachlorocyclohexane (HCH / Lindane)	SUBCON Alcontrol	#N/A	mg/kg	ug/kg																				
5915-41-3	Terbutylazine SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																				
60-51-5	Dimethoate	SOLID	#N/A	mg/kg	ug/kg																				
60-57-1	Dieldrin SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																				
61949-76-6	Permethrin I (cis) SUBCON Alcontrol OCP	SOLID	#N/A	mg/kg	ug/kg																				
61949-77-7	Permethrin II (trans) SUBCON Alcontrol OCP	SOLID	#N/A	mg/kg	ug/kg																				
62-73-7	Dichlorvos	SOLID	#N/A	mg/kg	ug/kg																				
639-58-7	Triphenyltin SUBCON I2	SOLID	#N/A	mg/kg	ug/kg																				
66063-05-6	Pencycuron	SOLID	#N/A	mg/kg	mg/kg																				
68085-85-8	Cyhalothrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																				
683-18-1	Dibutyltin Subcon I2	SOLID	#N/A	mg/kg	ug/kg																				
68359-37-5	Cyfluthrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																				
72-20-8	Endrin SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																				
72-54-8	p,p-TDE (DDD)	SOLID	#N/A	mg/kg	ug/kg																				
72-55-9	p,p-DDE	SOLID	#N/A	mg/kg	ug/kg																				
7287-19-6	Prometryn SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																				
76-44-8	Heptachlor SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																				
786-19-6	Carbophenothion	SOLID	#N/A	mg/kg	ug/kg																				
789-02-6	o,p-DDT SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																				
81406-37-3	Fluroxypyr	SOLID	#N/A	mg/kg	mg/kg																				
82-68-8	Quintozene; (PCNB)	SOLID	#N/A	mg/kg	ug/kg																				
834-12-8	Ametryn SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																				
86-50-0	Azinphos-methyl	SOLID	#N/A	mg/kg	ug/kg																				
886-50-0	Terbutryn SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																				
93-65-2	MCPP; (Mecoprop)	SOLID	#N/A	mg/kg	mg/kg																				
93-72-1	2,4,5-TP; (Fenoprop); (Silvex)	SOLID	#N/A	mg/kg	mg/kg																				
93-76-5	2,4,5-T	SOLID	#N/A	mg/kg	mg/kg																				
94-74-6	MCPA	SOLID	#N/A	mg/kg	mg/kg																				
94-75-7	2,4-D	SOLID	#N/A	mg/kg	mg/kg																				
94-81-5	MCPB	SOLID	#N/A	mg/kg	mg/kg																				
94-82-6	2,4-DB	SOLID	#N/A	mg/kg	mg/kg																				
959-98-8	Endosulphan I	SOLID	#N/A	mg/kg	ug/kg																				
P1362	TPH Aromatic >C35-C44	SOLID	657.18	mg/kg	mg/kg	<0.1	<0.1														<0.1			<0.1	
P1415	TPH Aliphatic >C35-C44	SOLID	6927070.30	mg/kg	mg/kg	<0.1	<0.1															<0.1		26.9	
120-12-7	Anthracene	SOLID	0.16	mg/kg	ug/kg																				7720.0
129-00-0	Pyrene	SOLID	1.88	mg/kg	ug/kg																				22600.0
191-24-2	Benzo(g,h,i)perylene	SOLID	2.42	mg/kg	ug/kg																				11600.0
193-39-5	Indeno(1,2,3-cd)pyrene	SOLID	0.51	mg/kg	ug/kg																				12500.0
205-99-2	Benzo(b)fluoranthene	SOLID	0.61	mg/kg	ug/kg																				15100.0
206-44-0	Fluoranthene	SOLID	0.01	mg/kg	ug/kg																				24700.0
207-08-9	Benzo(k)fluoranthene	SOLID	0.86	mg/kg	ug/kg																				6190.0
208-96-8	Acenaphthylene	SOLID	1.01	mg/kg	ug/kg																				122.0
218-01-9	Chrysene	SOLID	6.38	mg/kg	ug/kg																				21200.0
50-32-8	Benzo(a)pyrene	SOLID	0.07	mg/kg	ug/kg																				11900.0
53-70-3	Dibenzo(a,h)anthracene	SOLID	10.80	mg/kg	ug/kg																				2910.0
56-55-3	Benzo(a)anthracene	SOLID	4.50	mg/kg	ug/kg																				13600.0
83-32-9	Acenaphthene	SOLID	965.39	mg/kg	ug/kg																				8060.0
85-01-8	Phenanthrene	SOLID	3.35	mg/kg	ug/kg																				39300.0
86-73-7	Fluorene	SOLID	1.76	mg/kg	ug/kg																				4320.0
91-20-3	Napthalene	SOLID	0.08	mg/kg	ug/kg																				1640.0
302-04-5	Thiocyanate	SOLID	62.96	mg/kg	mg/kg																				
P1879	Xylenols	SOLID - INITIAL	2.39	mg/kg	mg/kg																				
P2098	Cresols	SOLID - INITIAL	0.54	mg/kg	mg/kg																				
12001-28-4	Asbestos: Crocidolite	SOLID - INITIAL	#N/A	mg/kg	No units																				
12001-29-5	Asbestos: Chrysotile	SOLID - INITIAL	#N/A	mg/kg	No units																				
12172-67-7	Asbestos: Actinolite	SOLID - INITIAL	#N/A	mg/kg	No units																				
12172-73-5	Asbestos: Amosite	SOLID - INITIAL	#N/A	mg/kg	No units																				
14567-73-8	Asbestos: Tremolite	SOLID - INITIAL	#N/A	mg/kg	No units																				
17068-78-9	Asbestos: Anthophyllite	SOLID - INITIAL	#N/A	mg/kg	No units																				
1002-53-5	Dibutyl Tin	SOLID - INITIAL	0.00	mg/kg	mg/kg																				
1461-22-9	Tributyltin	SOLID - INITIAL	0.00	mg/kg	mg/kg																				
1461-25-2	Tetraethyl Tin	SOLID - INITIAL	0.00	mg/kg	mg/kg																				
1634-04-4	Methyl tert-butyl ether (MTBE)	SOLID - INITIAL	#N/A	mg/kg	ug/kg																				
1746-01-6	2,3,7,8-Tetrachlorodibenzo-p-dioxin	SOLID - INITIAL	#N/A	mg/kg	ng/g																				
181274-15-7	Propoxycarbazono-sodium	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-P-D																								

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Hole Ref	ARP16-MPT BH102	ARP16-MPT BH102	ARP16-MPT BH103	ARP16-MPT BH103	ARP16-MPT BH104	ARP16-MPT BH104	ARP16-MPT BH106	ARP16-MPT BH106	ARP16-MPT BH107	ARP16-MPT BH107	ARP16-MPT BH107	ARP16-MPT BH109	ARP16-MPT BH109	ARP16-MPT BH109	ARP16-MPT BH110	ARP16-MPT BH110	ARP16-MPT BH110	ARP16-MPT BH111	ARP16-MPT BH111	ARP16-MPT BH111
Sample Top	7.00	8.00	0.30	0.60	0.30	1.00	0.30	0.50	0.30	1.00	1.80	0.10	0.80	3.50	0.10	0.25	11.00	0.30	0.60	1.20
Lookup soil	CHK	CHK	MG	MG	MG	CHK	TS	CHK	HEAD	HEAD	HEAD	MG	HEAD	HEAD	MG	MG	CHK	MG	MG	CWF
Sample Ref	2	3	1	2	1	2	1	2	1	2	3	1	2	3	1	2	3	1	2	3
Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
31508-00-6	PCB-118 2,3',4,4',5 - Pentachlorobiphenyl	SOLID - INITIAL	694.02	mg/kg	ng/g															
32598-13-3	PCB 77	SOLID - INITIAL	6185.41	mg/kg	ng/g															
32598-14-4	PCB 105	SOLID - INITIAL	8940.63	mg/kg	ng/g															
3268-87-9	Octachlorodibenzo-p-dioxin	SOLID - INITIAL	91923.81	mg/kg	ng/g															
32774-16-6	PCB 169	SOLID - INITIAL	37270.75	mg/kg	ng/g															
3380-34-5	Triclosan	SOLID - INITIAL	0.33	mg/kg	mg/kg															
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-P-Dioxin	SOLID - INITIAL	91923.81	mg/kg	ng/g															
38380-08-4	PCB-156 2,3,3,4,4,5 - Hexachlorobiphenyl	SOLID - INITIAL	3172.26	mg/kg	ng/g															
39001-02-0	Octachlorodibenzofuran	SOLID - INITIAL	46180.43	mg/kg	ng/g															
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-P-Dioxin	SOLID - INITIAL	36595.53	mg/kg	ng/g															
39635-31-9	PCB 189	SOLID - INITIAL	270002.64	mg/kg	ng/g															
40321-76-4	1,2,3,7,8-Pentachlorodibenzo-P-Dioxin	SOLID - INITIAL	#N/A	mg/kg	ng/g															
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	SOLID - INITIAL	393.06	mg/kg	ng/g															
52645-53-1	Permethrin	SOLID - INITIAL	#N/A	mg/kg	ug/kg															
52663-72-6	PCB 167	SOLID - INITIAL	45853.03	mg/kg	ng/g															
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	SOLID - INITIAL	9648.46	mg/kg	ng/g															
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	SOLID - INITIAL	964.85	mg/kg	ng/g															
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	SOLID - INITIAL	715.25	mg/kg	ng/g															
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	SOLID - INITIAL	715.25	mg/kg	ng/g															
57465-28-8	PCB 126	SOLID - INITIAL	8940.63	mg/kg	ng/g															
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-P-Dioxin	SOLID - INITIAL	91923.81	mg/kg	ng/g															
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofura	SOLID - INITIAL	715.25	mg/kg	ng/g															
62476-59-9	Acifluorfen	SOLID - INITIAL	#N/A	mg/kg	mg/kg															
65510-44-3	PCB 123	SOLID - INITIAL	8940.63	mg/kg	ng/g															
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	SOLID - INITIAL	715.25	mg/kg	ng/g															
69782-90-7	PCB 157	SOLID - INITIAL	45853.03	mg/kg	ng/g															
70362-50-4	PCB 81	SOLID - INITIAL	8940.63	mg/kg	ng/g															
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	SOLID - INITIAL	715.25	mg/kg	ng/g															
7085-19-0	mecoprop	SOLID - INITIAL	#N/A	mg/kg	mg/kg															
72-43-5	Methoxychlor	SOLID - INITIAL	#N/A	mg/kg	ug/kg															
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	SOLID - INITIAL	#N/A	mg/kg	ng/g															
74472-37-0	PCB 114	SOLID - INITIAL	8940.63	mg/kg	ng/g															
88-85-7	Dinoseb	SOLID - INITIAL	#N/A	mg/kg	mg/kg															
892-20-6	Triphenyltin	SOLID - INITIAL	#N/A	mg/kg	mg/kg															
P1330	BTEX	SOLID - INITIAL	0.00	mg/kg	ug/kg															
P1354	TPH Aromatic >C6-C7	SOLID - INITIAL	0.05	mg/kg	ug/kg															
P1355	TPH Aromatics > C7-C8	SOLID - INITIAL	#N/A	mg/kg	ug/kg															
P1356	Aromatics >C8-10	SOLID - INITIAL	#N/A	mg/kg	ug/kg															
P1357	Aromatics >C10-12	SOLID - INITIAL	#N/A	mg/kg	ug/kg															
P1358	Aromatics >C12-16	SOLID - INITIAL	#N/A	mg/kg	ug/kg															
P1359	Aromatics >C16-21	SOLID - INITIAL	#N/A	mg/kg	ug/kg															
P1360	Aromatics >C21-35	SOLID - INITIAL	#N/A	mg/kg	ug/kg															
P1362	Aromatics >C35-44	SOLID - INITIAL	#N/A	mg/kg	ug/kg															
P1407	Aliphatics >C5-6	SOLID - INITIAL	#N/A	mg/kg	ug/kg															
P1408	Aliphatics >C6-8	SOLID - INITIAL	#N/A	mg/kg	ug/kg															
P1409	Aliphatics >C8-10	SOLID - INITIAL	#N/A	mg/kg	ug/kg															
P1410	Aliphatics >C10-12	SOLID - INITIAL	#N/A	mg/kg	ug/kg															
P1411	Aliphatics >C12-16	SOLID - INITIAL	#N/A	mg/kg	ug/kg															
P1412	Aliphatics >C16-21	SOLID - INITIAL	#N/A	mg/kg	ug/kg															
P1413	Aliphatics >C21-35	SOLID - INITIAL	#N/A	mg/kg	ug/kg															
P1415	Aliphatics >C35-44	SOLID - INITIAL	#N/A	mg/kg	ug/kg															
15541-45-4	Bromate	SOLID - INITIAL	#N/A	mg/kg	mg/kg															
16065-83-1	Trivalent Chromium	SOLID - INITIAL	#N/A	mg/kg	mg/kg															
16887-00-6	Chloride	SOLID - INITIAL	268.18	mg/kg	mg/kg															
16984-48-8	Fluoride	SOLID - INITIAL	0.41	mg/kg	mg/kg															
18496-25-8	Sulphide	SOLID - INITIAL	#VALUE!	mg/kg	mg/kg															
24959-67-9	Bromide	SOLID - INITIAL	#VALUE!	mg/kg	mg/kg															
7439-89-6	Iron	SOLID - INITIAL	44.05	mg/kg	mg/kg															
7439-95-4	Magnesium	SOLID - INITIAL	0.00	mg/kg	mg/kg															
7439-98-7	Molybdenum	SOLID - INITIAL	0.10	mg/kg	mg/kg															
2023695	Potassium	SOLID - INITIAL	0.00	mg/kg	mg/kg															
7440-23-5	Sodium	SOLID - INITIAL	263.64	mg/kg	mg/kg															
7440-70-2	Calcium	SOLID - INITIAL	0.00	mg/kg	mg/kg															
P1238	Ammoniacal Nitrogen as N	SOLID - INITIAL	0.11	mg/kg	mg/kg															
P1286	Manganese	SOLID - INITIAL	2.51	mg/kg	mg/kg															
100-01-6	4-Nitroaniline	SOLID - INITIAL	0.00	mg/kg	ug/kg															
101-55-3	4-Bromophenyl Phenyl Ether	SOLID - INITIAL	#N/A	mg/kg	ug/kg															

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Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	Hole Ref	ARP16-MPT BH102	ARP16-MPT BH102	ARP16-MPT BH103	ARP16-MPT BH103	ARP16-MPT BH104	ARP16-MPT BH104	ARP16-MPT BH106	ARP16-MPT BH106	ARP16-MPT BH107	ARP16-MPT BH107	ARP16-MPT BH107	ARP16-MPT BH109	ARP16-MPT BH109	ARP16-MPT BH109	ARP16-MPT BH110	ARP16-MPT BH110	ARP16-MPT BH110	ARP16-MPT BH111	ARP16-MPT BH111	ARP16-MPT BH111
						Sample Top	Lookup soil	Sample Ref	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
103-33-3	Azobenzene	SOLID - INITIAL	0.38	mg/kg	ug/kg																					
106-47-8	4-Chloroaniline	SOLID - INITIAL	0.01	mg/kg	ug/kg																					
700-57-23	4-Chlorophenylphenylether	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					
88-74-4	2-Nitroaniline	SOLID - INITIAL	0.01	mg/kg	ug/kg																					
99-09-2	3-Nitroaniline	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					
994-05-8	Tertiary Amyl Methyl Ether	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					
1336-36-6	PCB Total (WAC only)	SOLID	#N/A	mg/kg	mg/kg																					
P1330	BTEX (total) WAC	SOLID	#N/A	mg/kg	mg/kg																					

Appendix G

G2 RTM Level 1 - Soils

Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	Hole Ref	ARP16-MPT	ARP16-MPT	ARP16-MPT	ARP16-MPT	ARP16-MPT	ARP16-MPT	ARP16-MPT	ARP16-MPT	ARP16-MPT	ARP16-MPT	ARP16-MPT	ARP16-MPT	ARP16-MPT	ARP16-MPT	ARP16-MPT	ARP16-MPT	ARP16-MPT			
						BH111	BH112	BH112	BH114	BH114	BH114	BH115	BH115	BH116	BH116	BH116	BH117	BH117	IP101	IP101	IP101	TP101	TP101	TP103	TP103	
						Sample Top	7.80	0.30	1.00	0.30	0.90	1.50	0.30	0.80	0.40	0.90	6.00	0.30	2.50	0.30	0.80	1.20	0.30	1.00	0.20	0.50
						Lookup soil	CWF	MG	CWF	MG	MG	CWF	MG	CWF	MG	CWF	CHK	MG	CWF	MG	MG	MG	CHK	CHK	MG	MG
						Sample Ref	4	1	2	1	2	3	1	2	1	2	3	1	2	1	2	3	1	2	1	2
						ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
100-41-4	Ethylbenzene	SOLID - INITIAL	0.53	mg/kg	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
108-88-3	Toluene	SOLID - INITIAL	0.88	mg/kg	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
120-12-7	Anthracene	SOLID - INITIAL	0.16	mg/kg	mg/kg	<0.02	0.1	<0.02	<0.02	8.2	<0.02	<0.02	<0.02	0.1	<0.02	<0.02	0.1	<0.02	3.6	0.4	0.3	<0.02	<0.02	<0.02	<0.02	
129-00-0	Pyrene	SOLID - INITIAL	1.88	mg/kg	mg/kg	<0.07	0.8	<0.07	<0.07	35.2	<0.07	0.1	<0.07	0.2	<0.07	<0.07	0.7	<0.07	41.2	4.0	3.7	<0.07	<0.07	<0.07	<0.07	
1330-20-7	Xylene	SOLID - INITIAL	0.23	mg/kg	mg/kg	<0.05	0.6	0.1	<0.05	8.7	<0.05	<0.05	<0.05	0.1	<0.05	<0.05	0.3	<0.05	6.3	1.1	1.2	<0.05	<0.05	<0.05	<0.05	
191-24-2	Benzo(g,h,i)perylene	SOLID - INITIAL	2.42	mg/kg	mg/kg	<0.03	0.7	0.1	<0.03	10.7	<0.03	0.0	<0.03	0.1	<0.03	<0.03	0.4	<0.03	8.0	1.4	1.5	<0.03	<0.03	<0.03	<0.03	
193-39-5	Indeno(1,2,3-cd)pyrene	SOLID - INITIAL	0.51	mg/kg	mg/kg	<0.03	0.9	0.1	<0.03	19.9	<0.03	0.1	<0.03	0.1	<0.03	<0.03	0.8	<0.03	18.8	3.0	3.2	<0.03	<0.03	<0.03	<0.03	
205-99-2	Benzo(b)fluoranthene	SOLID - INITIAL	0.61	mg/kg	mg/kg	<0.05	0.9	0.1	<0.05	37.5	<0.05	0.1	<0.05	0.3	<0.05	<0.05	0.8	<0.05	40.6	3.5	3.5	<0.05	<0.05	<0.05	<0.05	
206-44-0	Fluoranthene	SOLID - INITIAL	0.01	mg/kg	mg/kg	<0.08	0.9	<0.08	<0.08	7.4	<0.08	0.1	<0.08	0.3	<0.08	<0.08	0.8	<0.08	40.6	3.5	3.5	<0.08	<0.08	<0.08	<0.08	
207-08-9	Benzo(k)fluoranthene	SOLID - INITIAL	0.86	mg/kg	mg/kg	<0.07	0.3	<0.07	<0.07	7.4	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	0.2	<0.07	6.6	0.8	0.9	<0.07	<0.07	<0.07	<0.07	
208-96-8	Acenaphthylene	SOLID - INITIAL	1.01	mg/kg	mg/kg	<0.01	<0.01	<0.01	<0.01	0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.1	0.0	0.0	<0.01	<0.01	<0.01	<0.01	
218-01-9	Chrysenes	SOLID - INITIAL	6.38	mg/kg	mg/kg	<0.06	0.7	0.1	<0.06	13.9	<0.06	<0.06	<0.06	0.1	<0.06	<0.06	0.5	<0.06	18.2	2.0	2.1	<0.06	<0.06	<0.06	<0.06	
50-32-8	Benzo(a)pyrene	SOLID - INITIAL	0.07	mg/kg	mg/kg	<0.04	0.8	0.1	<0.04	17.4	<0.04	0.0	<0.04	0.1	<0.04	<0.04	0.6	<0.04	16.6	2.4	2.4	<0.04	<0.04	<0.04	<0.04	
53-70-3	Dibenzo(a,h)anthracene	SOLID - INITIAL	10.80	mg/kg	mg/kg	<0.04	0.1	<0.04	<0.04	1.9	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.1	<0.04	1.7	0.3	0.3	<0.04	<0.04	<0.04	<0.04	
56-55-3	Benzo(a)anthracene	SOLID - INITIAL	4.50	mg/kg	mg/kg	<0.04	0.6	0.1	<0.04	14.2	<0.04	0.0	<0.04	0.1	<0.04	<0.04	0.5	<0.04	17.4	1.8	2.0	<0.04	<0.04	<0.04	<0.04	
57-12-5	Cyanide	SOLID - INITIAL	0.26	mg/kg	mg/kg	<1	<1	<1	<1	<1	<1	2.0	3.0	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
71-43-2	Benzene	SOLID - INITIAL	0.0043	mg/kg	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
7439-92-1	Lead	SOLID - INITIAL	10.00	mg/kg	mg/kg	1.0	27.0	25.0	3.0	10.0	11.0	15.0	17.0	4.0	21.0	5.0	13.0	5.0	63.0	43.0	61.0	50.0	2.0	41.0	19.0	
7439-97-6	Mercury	SOLID - INITIAL	0.50	mg/kg	mg/kg	0.6	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	0.4	<0.17	<0.17	0.3	<0.17	<0.17	0.2	0.3	0.3	0.2	0.6	<0.17	<0.17
7440-02-0	Nickel	SOLID - INITIAL	10.01	mg/kg	mg/kg	3.0	21.0	19.0	7.0	14.0	20.0	7.0	22.0	8.0	6.0	16.0	9.0	15.0	16.0	15.0	14.0	23.0	4.0	18.0	23.0	
7440-36-0	Antimony	SOLID - INITIAL	1.26	mg/kg	mg/kg	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	5.0	<5	<5	<5	<5	
7440-38-2	Arsenic	SOLID - INITIAL	5.00	mg/kg	mg/kg	<1	9.0	9.0	<1	6.0	9.0	2.0	10.0	<1	3.0	2.0	3.0	2.0	6.0	5.0	5.0	8.0	<1	10.0	19.0	
7440-41-7	Beryllium	SOLID - INITIAL	5.04	mg/kg	mg/kg	<1	1.0	1.0	<1	1.0	1.0	<1	1.0	<1	<1	<1	<1	1.0	1.0	<1	1.0	<1	1.0	<1	2.0	
7440-42-8	Boron	SOLID - INITIAL	8.69	mg/kg	mg/kg	<1.0	<1.0	<1.0	<1.0	1.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.1	1.2	1.4	<1.0	<1.0	
7440-43-9	Cadmium	SOLID - INITIAL	0.50	mg/kg	mg/kg	<0.5	0.9	0.9	<0.5	<0.5	0.9	<0.5	<0.5	1.0	2.3	0.7	<0.5	<0.5	0.7	0.6	0.5	1.7	<0.5	1.2	1.0	
7440-47-3	Chromium	SOLID - INITIAL	315.49	mg/kg	mg/kg	2.0	18.0	27.0	7.0	22.0	45.0	11.0	59.0	10.0	9.0	13.0	10.0	6.0	14.0	13.0	13.0	22.0	3.0	31.0	33.0	
7440-50-8	Copper	SOLID - INITIAL	1002.92	mg/kg	mg/kg	2.0	13.0	12.0	6.0	8.0	9.0	10.0	13.0	8.0	76.0	13.0	19.0	5.0	40.0	40.0	40.0	40.0	27.0	2.0	18.0	12.0
7440-62-2	Vanadium	SOLID - INITIAL	1.01	mg/kg	mg/kg	3.0	34.0	40.0	26.0	41.0	62.0	27.0	78.0	32.0	66.0	14.0	27.0	11.0	21.0	17.0	16.0	32.0	4.0	43.0	58.0	
7440-66-6	Zinc	SOLID - INITIAL	2507.30	mg/kg	mg/kg	12.0	62.0	45.0	19.0	35.0	32.0	30.0	45.0	27.0	56.0	22.0	40.0	22.0	115.0	86.0	91.0	85.0	12.0	80.0	43.0	
7782-49-2	Selenium	SOLID - INITIAL	0.50	mg/kg	mg/kg	<1	<1	<1	<1	<1	2.0	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
83-32-9	Acenaphthene	SOLID - INITIAL	965.39	mg/kg	mg/kg	<0.01	<0.01	<0.01	<0.01	4.2	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.0	<0.01	0.6	0.2	0.1	<0.01	<0.01	<0.01	<0.01	
85-01-8	Phenanthrene	SOLID - INITIAL	3.35	mg/kg	mg/kg	<0.03	0.2	<0.03	0.1	22.8	<0.03	0.1	<0.03	0.2	<0.03	<0.03	0.3	<0.03	12.4	1.4	1.1	<0.03	<0.03	<0.03	<0.03	
86-73-7	Fluorene	SOLID - INITIAL	1.76	mg/kg	mg/kg	<0.01	<0.01	<0.01	<0.01	2.8	<0.01	<0.01	<0.01	0.1	<0.01	<0.01	0.0	<0.01	0.5	0.2	0.1	<0.01	<0.01	<0.01	<0.01	
91-20-3	Napthalene	SOLID - INITIAL	0.08	mg/kg	mg/kg	<0.03	<0.03	<0.03	<0.03	0.5	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.1	<0.03	<0.03	<0.03	<0.03	<0.03	
P1186	Phenol	SOLID - INITIAL	0.04	mg/kg	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
P1310	Pah, Total	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
P1334	pH	SOLID - INITIAL	#N/A	mg/kg	pH Units																					
P1355	TPH Aromatic >C7-C8	SOLID - INITIAL	10.42	mg/kg	mg/kg												<0.01		<0.01	<0.01						
P1356	TPH Aromatic >C8-C10	SOLID - INITIAL	219.16	mg/kg	mg/kg																					
P1357	TPH Aromatic >C10-C12	SOLID - INITIAL	16.54	mg/kg	mg/kg												<0.1		<0.1	<0.1						
P1358	TPH Aromatic >C12-C16	SOLID - INITIAL	32.96	mg/kg	mg/kg												<0.1		0.4	0.5						
P1359	TPH Aromatic >C16-C21	SOLID - INITIAL	82.76	mg/kg	mg/kg												<0.1		4.9	10.4						

Appendix G

G2 RTM Level 1 - Soils

Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	Hole Ref	ARP16-MPT BH111	ARP16-MPT BH112	ARP16-MPT BH112	ARP16-MPT BH114	ARP16-MPT BH114	ARP16-MPT BH114	ARP16-MPT BH115	ARP16-MPT BH115	ARP16-MPT BH116	ARP16-MPT BH116	ARP16-MPT BH116	ARP16-MPT BH117	ARP16-MPT BH117	ARP16-MPT IP101	ARP16-MPT IP101	ARP16-MPT IP101	ARP16-MPT TP101	ARP16-MPT TP101	ARP16-MPT TP103	ARP16-MPT TP103
						Sample Top	Lookup soil	Sample Ref	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
108-67-8	1,3,5-Trimethylbenzene	SOLID - INITIAL	0.15	mg/kg	mg/kg		7.80	0.30	1.00	0.30	0.90	1.50	0.30	0.80	0.40	0.90	6.00	0.30	2.50	0.30	0.80	1.20	0.30	1.00	0.20	0.50
108-86-1	Bromobenzene	SOLID - INITIAL	#N/A	mg/kg	mg/kg		CWF	MG	CWF	MG	MG	CWF	MG	CWF	MG	CWF	CHK	MG	CWF	MG	MG	MG	CHK	CHK	MG	MG
108-90-7	Chlorobenzene	SOLID - INITIAL	4.46	mg/kg	mg/kg																					
108-95-2	Phenol	SOLID - INITIAL	0.04	mg/kg	mg/kg																					
111-91-1	Bis(2-chloroethoxy)methane	SOLID - INITIAL	0.01	mg/kg	mg/kg																					
117-81-7	Bis(2-ethylhexyl)phthalate	SOLID - INITIAL	18472.17	mg/kg	mg/kg																					
117-84-0	Di-N-Octyl Phthalate	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
118-74-1	Hexachlorobenzene (HCB)	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
120-82-1	1,2,4-Trichlorobenzene	SOLID - INITIAL	1.81	mg/kg	mg/kg																					
120-83-2	2,4-Dichlorophenol	SOLID - INITIAL	0.28	mg/kg	mg/kg																					
121-14-2	2,4-Dinitrotoluene	SOLID - INITIAL	0.00	mg/kg	mg/kg																					
122-39-4	Diphenylamine	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
124-48-1	Dibromochloromethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
127-18-4	Tetrachloroethene	SOLID - INITIAL	1.46	mg/kg	mg/kg																					
131-11-3	Dimethylphthalate	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
132-64-9	Dibenzofuran	SOLID - INITIAL	0.49	mg/kg	mg/kg																					
135-98-8	Sec-Butylbenzene	SOLID - INITIAL	1.39	mg/kg	mg/kg																					
142-28-9	1,3-Dichloropropane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
156-59-2	cis-1,2-Dichloroethene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
156-60-5	trans-1,2-Dichloroethene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
1634-04-4	Methyl tert-butyl ether (MTBE)	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
39638-32-9	Bis(2-chloroisopropyl)ether	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
528-29-0	O-Dinitrobenzene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
534-52-1	2-Methyl-4,6-Dinitrophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
541-73-1	1,3-Dichlorobenzene	SOLID - INITIAL	145.60	mg/kg	mg/kg																					
56-23-5	Tetrachloromethane (Carbon Tetra Chloride)	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
563-58-6	1,1-Dichloropropene	SOLID - INITIAL	0.41	mg/kg	mg/kg																					
58-90-2	2,3,4,6-Tetrachlorophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
594-20-7	2,2-Dichloropropane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
59-50-7	4-Chloro-3-Methylphenol	SOLID - INITIAL	2.93	mg/kg	mg/kg																					
606-20-2	2,6-Dinitrotoluene	SOLID - INITIAL	1.48	mg/kg	mg/kg																					
62-53-3	Aniline	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
630-20-6	1,1,1,2-Tetrachloroethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
67-66-3	Chloroform	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
700-57-23	4-Chlorophenyl Phenyl Ether	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
71-55-6	1,1,1-Trichloroethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
74-95-3	Dibromomethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
74-97-5	Bromochloromethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
75-01-4	Chloroethene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
75-25-2	Tribromomethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
75-27-4	Bromodichloromethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
75-34-3	1,1-Dichloroethane	SOLID - INITIAL	0.01	mg/kg	mg/kg																					
75-35-4	1,1-Dichloroethene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
77-47-4	Hexachlorocyclopentadiene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
78-87-5	1,2-Dichloropropane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
79-00-5	1,1,2-Trichloroethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
79-01-6	Trichloroethene	SOLID - INITIAL	0.09	mg/kg	mg/kg																					
84-66-2	Diethylphthalate	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
84-74-2	Di-N-Butyl Phthalate	SOLID - INITIAL	0.52	mg/kg	mg/kg																					
85-68-7	Butylbenzylphthalate	SOLID - INITIAL	23.36	mg/kg	mg/kg																					
86-74-8	Carbazole	SOLID - INITIAL	0.01	mg/kg	mg/kg																					
87-61-6	1,2,3 Trichlorobenzene	SOLID - INITIAL	0.26	mg/kg	mg/kg																					
87-68-3	Hexachlorobutadiene (HCBd)	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
87-86-5	Pentachlorophenol (PCP)	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
88-06-2	2,4,6-Trichlorophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
88-74-4	2-Nitroaniline	SOLID - INITIAL	0.01	mg/kg	mg/kg																					
91-57-6	2-Methylnaphthalene	SOLID - INITIAL	0.84	mg/kg	mg/kg																					
91-58-7	2-Chloronaphthalene	SOLID - INITIAL	0.92	mg/kg	mg/kg																					
935-95-5	2,3,5,6-Tetrachlorophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
95-47-6	Xylene	SOLID - INITIAL	0.23	mg/kg	mg/kg		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
95-48-7	2-Methylphenol	SOLID - INITIAL	0.54	mg/kg	mg/kg																					
95-49-8	2-Chlorotoluene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
95-50-1	1,2-Dichlorobenzene	SOLID - INITIAL	40.42	mg/kg	mg/kg																					
95-57-8	2-Chlorophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
95-63-6	1,2,4-Trimethylbenzene	SOLID - INITIAL	0.25	mg/kg	mg/kg																					
95-95-4	2,4,5-Trichlorophenol	SOLID - INITIAL	60.93	mg/kg	mg/kg																					
96-12-8	1,2-Dibromo-3-Chloropropane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
96-18-4	1,2,3-Trichloropropane	SOLID - INITIAL	0.44	mg/kg	mg/kg																					

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Hole Ref	ARP16-MPT BH111	ARP16-MPT BH112	ARP16-MPT BH112	ARP16-MPT BH114	ARP16-MPT BH114	ARP16-MPT BH114	ARP16-MPT BH115	ARP16-MPT BH115	ARP16-MPT BH116	ARP16-MPT BH116	ARP16-MPT BH116	ARP16-MPT BH117	ARP16-MPT BH117	ARP16-MPT IP101	ARP16-MPT IP101	ARP16-MPT IP101	ARP16-MPT TP101	ARP16-MPT TP101	ARP16-MPT TP103	ARP16-MPT TP103
Sample Top	7.80	0.30	1.00	0.30	0.90	1.50	0.30	0.80	0.40	0.90	6.00	0.30	2.50	0.30	0.80	1.20	0.30	1.00	0.20	0.50
Lookup soil	CWF	MG	CWF	MG	MG	CWF	MG	CWF	MG	CWF	CHK	MG	CWF	MG	MG	MG	CHK	CHK	MG	MG
Sample Ref	4	1	2	1	2	3	1	2	1	2	3	1	2	1	2	3	1	2	1	2
Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES

Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	ARP16-MPT BH111	ARP16-MPT BH112	ARP16-MPT BH112	ARP16-MPT BH114	ARP16-MPT BH114	ARP16-MPT BH114	ARP16-MPT BH115	ARP16-MPT BH115	ARP16-MPT BH116	ARP16-MPT BH116	ARP16-MPT BH116	ARP16-MPT BH117	ARP16-MPT BH117	ARP16-MPT IP101	ARP16-MPT IP101	ARP16-MPT IP101	ARP16-MPT TP101	ARP16-MPT TP101	ARP16-MPT TP103	ARP16-MPT TP103
1610-18-0	Prometon SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																				
16118-49-3	Carbetamide	SOLID	#N/A	mg/kg	mg/kg																				
1689-83-4	loxynil	SOLID	#N/A	mg/kg	mg/kg																				
1689-84-5	Bromoxynil	SOLID	#N/A	mg/kg	mg/kg																				
1702-17-6	Clopyralid	SOLID	#N/A	mg/kg	mg/kg																				
1746-81-2	Monolinuron	SOLID	#N/A	mg/kg	mg/kg																				
18691-97-9	Methabenzthiazuron	SOLID	#N/A	mg/kg	mg/kg																				
1897-45-6	Chlorothalonil	SOLID	#N/A	mg/kg	ug/kg																				
1912-24-9	Atrazine SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																				
1918-00-9	Dicamba	SOLID	#N/A	mg/kg	mg/kg																				
6607	Picloram	SOLID	#N/A	mg/kg	mg/kg																				
1967-16-4	Chlorbufam	SOLID	#N/A	mg/kg	mg/kg																				
1982-47-4	Chloroxuron	SOLID	#N/A	mg/kg	mg/kg																				
19937-59-8	Metoxuron	SOLID	#N/A	mg/kg	mg/kg																				
2132-70-9	p,p-Methoxychlor	SOLID	#N/A	mg/kg	ug/kg																				
2274-67-1	Chlorpyrifos-methyl	SOLID	#N/A	mg/kg	ug/kg																				
2303-17-5	Triallate	SOLID	#N/A	mg/kg	ug/kg																				
2310-17-0	Phosalone	SOLID	#N/A	mg/kg	ug/kg																				
23103-98-2	Pirimicarb	SOLID	#N/A	mg/kg	mg/kg																				
24017-47-8	Triazophos	SOLID	#N/A	mg/kg	ug/kg																				
25057-89-0	Bentazone	SOLID	#N/A	mg/kg	mg/kg																				
2642-71-9	Azinphos-ethyl	SOLID	#N/A	mg/kg	ug/kg																				
2921-88-2	Chlorpyrifos	SOLID	#N/A	mg/kg	ug/kg																				
29232-93-7	Pirimiphos Methyl	SOLID	#N/A	mg/kg	ug/kg																				
297-78-9	Telodrin	SOLID	#N/A	mg/kg	ug/kg																				
298-00-0	Methyl Parathion	SOLID	#N/A	mg/kg	ug/kg																				
298-01-1	Mevinphos	SOLID	#N/A	mg/kg	ug/kg																				
298-04-4	Disulfoton SUBCON OCP Alcontrol	SOLID	#N/A	mg/kg	ug/kg																				
29973-13-5	Ethiofencarb	SOLID	#N/A	mg/kg	mg/kg																				
30667-99-3	o,p-Methoxychlor	SOLID	#N/A	mg/kg	ug/kg																				
309-00-2	Aldrin SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																				
31218-83-4	Propetamphos	SOLID	#N/A	mg/kg	ug/kg																				
314-40-9	Bromacil	SOLID	#N/A	mg/kg	mg/kg																				
319-84-6	alpha-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																				
	beta-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																				
319-85-7		SOLID	#N/A	mg/kg	ug/kg																				
330-54-1	Diuron SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																				
330-55-2	Linuron	SOLID	#N/A	mg/kg	mg/kg																				
33213-65-9	Endosulphan II	SOLID	#N/A	mg/kg	ug/kg																				
333-41-5	Diazinon	SOLID	#N/A	mg/kg	ug/kg																				
34123-59-6	Isoproturon	SOLID	#N/A	mg/kg	mg/kg																				
34205-21-5	Dimefuron	SOLID	#N/A	mg/kg	mg/kg																				
3424-82-6	o,p-DDE	SOLID	#N/A	mg/kg	ug/kg																				
35367-38-5	Diflufenzuron	SOLID	#N/A	mg/kg	mg/kg																				
698836	Benazolin	SOLID	#N/A	mg/kg	mg/kg																				
38260-54-7	Etrimpfos	SOLID	#N/A	mg/kg	ug/kg																				
40483-25-2	Diclofop	SOLID	#N/A	mg/kg	mg/kg																				
40487-42-1	Pendimethalin	SOLID	#N/A	mg/kg	ug/kg																				
43121-43-3	Triadimefon	SOLID	#N/A	mg/kg	ug/kg																				
465-73-6	Isodrin	SOLID	#N/A	mg/kg	ug/kg																				
470-90-6	Chlorfenvinphos	SOLID	#N/A	mg/kg	ug/kg																				
50-29-3	p,p-DDT SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																				
50-31-7	2,3,6-TBA	SOLID	#N/A	mg/kg	mg/kg																				
5103-71-9	cis-Chlordane SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																				
5103-74-2	trans-Chlordane SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																				
51630-58-1	Fenvalerate SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																				
52315-07-8	Cypermethrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																				
52645-53-1	Permethrin SUBCON RPS MH Pyrethroids	SOLID	#N/A	mg/kg	mg/kg																				
52756-22-6	Flamprop-isopropyl	SOLID	#N/A	mg/kg	mg/kg																				
52918-63-5	Deltamethrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																				
53-19-0	o,p-TDE (DDD)	SOLID	#N/A	mg/kg	ug/kg																				
55335-06-3	Triclopyr	SOLID	#N/A	mg/kg	mg/kg																				
55-38-9	Fenthion	SOLID	#N/A	mg/kg	ug/kg																				
563-12-2	Ethion	SOLID	#N/A	mg/kg	ug/kg																				
56-38-2	Parathion (Ethyl Parathion)	SOLID	#N/A	mg/kg	ug/kg																				
58667-63-3	Fiamprop	SOLID	#N/A	mg/kg	mg/kg																				

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Hole Ref	ARP16-MPT BH111	ARP16-MPT BH112	ARP16-MPT BH112	ARP16-MPT BH114	ARP16-MPT BH114	ARP16-MPT BH114	ARP16-MPT BH115	ARP16-MPT BH115	ARP16-MPT BH116	ARP16-MPT BH116	ARP16-MPT BH116	ARP16-MPT BH117	ARP16-MPT BH117	ARP16-MPT IP101	ARP16-MPT IP101	ARP16-MPT IP101	ARP16-MPT TP101	ARP16-MPT TP101	ARP16-MPT TP103	ARP16-MPT TP103
Sample Top	7.80	0.30	1.00	0.30	0.90	1.50	0.30	0.80	0.40	0.90	6.00	0.30	2.50	0.30	0.80	1.20	0.30	1.00	0.20	0.50
Lookup soil	CWF	MG	CWF	MG	MG	CWF	MG	CWF	MG	CWF	CHK	MG	CWF	MG	MG	MG	CHK	CHK	MG	MG
Sample Ref	4	1	2	1	2	3	1	2	1	2	3	1	2	1	2	3	1	2	1	2

Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
58-89-9	gamma-Hexachlorocyclohexane (HCH / Lindane)	SOLID	#N/A	mg/kg	ug/kg															
5915-41-3	Terbutylazine SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg															
60-51-5	Dimethoate	SOLID	#N/A	mg/kg	ug/kg															
60-57-1	Dieldrin SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg															
61949-76-6	Permethrin I (cis) SUBCON Alcontrol OCP	SOLID	#N/A	mg/kg	ug/kg															
61949-77-7	Permethrin II (trans) SUBCON Alcontrol OCP	SOLID	#N/A	mg/kg	ug/kg															
62-73-7	Dichlorvos	SOLID	#N/A	mg/kg	ug/kg															
639-58-7	Triphenyltin SUBCON I2	SOLID	#N/A	mg/kg	ug/kg															
66063-05-6	Pencycuron	SOLID	#N/A	mg/kg	mg/kg															
68085-85-8	Cyhalothrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg															
683-18-1	Dibutyltin Subcon I2	SOLID	#N/A	mg/kg	ug/kg															
68359-37-5	Cyfluthrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg															
72-20-8	Endrin SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg															
72-54-8	p,p-TDE (DDD)	SOLID	#N/A	mg/kg	ug/kg															
72-55-9	p,p-DDE	SOLID	#N/A	mg/kg	ug/kg															
7287-19-6	Prometryn SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg															
76-44-8	Heptachlor SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg															
786-19-6	Carbophenothion	SOLID	#N/A	mg/kg	ug/kg															
789-02-6	o,p-DDT SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg															
81406-37-3	Fluroxypyr	SOLID	#N/A	mg/kg	mg/kg															
82-68-8	Quintozene; (PCNB)	SOLID	#N/A	mg/kg	ug/kg															
834-12-8	Ametryn SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg															
86-50-0	Azinphos-methyl	SOLID	#N/A	mg/kg	ug/kg															
886-50-0	Terbutryn SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg															
93-65-2	MCCPP; (Mecoprop)	SOLID	#N/A	mg/kg	mg/kg															
93-72-1	2,4,5-TP; (Fenoprop); (Silvex)	SOLID	#N/A	mg/kg	mg/kg															
93-76-5	2,4,5-T	SOLID	#N/A	mg/kg	mg/kg															
94-74-6	MCPA	SOLID	#N/A	mg/kg	mg/kg															
94-75-7	2,4-D	SOLID	#N/A	mg/kg	mg/kg															
94-81-5	MCPB	SOLID	#N/A	mg/kg	mg/kg															
94-82-6	2,4-DB	SOLID	#N/A	mg/kg	mg/kg															
959-98-8	Endosulphan I	SOLID	#N/A	mg/kg	ug/kg															
P1362	TPH Aromatic >C35-C44	SOLID	657.18	mg/kg	mg/kg									<0.1	3.7	2.9				
P1415	TPH Aliphatic >C35-C44	SOLID	6927070.30	mg/kg	mg/kg									<0.1	<0.1	<0.1				
120-12-7	Anthracene	SOLID	0.16	mg/kg	ug/kg															
129-00-0	Pyrene	SOLID	1.88	mg/kg	ug/kg															
191-24-2	Benzo(g,h,i)perylene	SOLID	2.42	mg/kg	ug/kg															
193-39-5	Indeno(1,2,3-cd)pyrene	SOLID	0.51	mg/kg	ug/kg															
205-99-2	Benzo(b)fluoranthene	SOLID	0.61	mg/kg	ug/kg															
206-44-0	Fluoranthene	SOLID	0.01	mg/kg	ug/kg															
207-08-9	Benzo(k)fluoranthene	SOLID	0.86	mg/kg	ug/kg															
208-96-8	Acenaphthylene	SOLID	1.01	mg/kg	ug/kg															
218-01-9	Chrysene	SOLID	6.38	mg/kg	ug/kg															
50-32-8	Benzo(a)pyrene	SOLID	0.07	mg/kg	ug/kg															
53-70-3	Dibenzo(a,h)anthracene	SOLID	10.80	mg/kg	ug/kg															
56-55-3	Benzo(a)anthracene	SOLID	4.50	mg/kg	ug/kg															
83-32-9	Acenaphthene	SOLID	965.39	mg/kg	ug/kg															
85-01-8	Phenanthrene	SOLID	3.35	mg/kg	ug/kg															
86-73-7	Fluorene	SOLID	1.76	mg/kg	ug/kg															
91-20-3	Napthalene	SOLID	0.08	mg/kg	ug/kg															
302-04-5	Thiocyanate	SOLID	62.96	mg/kg	mg/kg															
P1879	Xylenols	SOLID - INITIAL	2.39	mg/kg	mg/kg															
P2098	Cresols	SOLID - INITIAL	0.54	mg/kg	mg/kg															
12001-28-4	Asbestos: Crocidolite	SOLID - INITIAL	#N/A	mg/kg	No units															
12001-29-5	Asbestos: Chrysotile	SOLID - INITIAL	#N/A	mg/kg	No units															
12172-67-7	Asbestos: Actinolite	SOLID - INITIAL	#N/A	mg/kg	No units															
12172-73-5	Asbestos: Amosite	SOLID - INITIAL	#N/A	mg/kg	No units															
14567-73-8	Asbestos: Tremolite	SOLID - INITIAL	#N/A	mg/kg	No units															
17068-78-9	Asbestos: Anthophyllite	SOLID - INITIAL	#N/A	mg/kg	No units															
1002-53-5	Dibutyl Tin	SOLID - INITIAL	0.00	mg/kg	mg/kg															
1461-22-9	Tributyltin	SOLID - INITIAL	0.00	mg/kg	mg/kg															
1461-25-2	Tetrabutyl Tin	SOLID - INITIAL	0.00	mg/kg	mg/kg															
1634-04-4	Methyl tert-butyl ether (MTBE)	SOLID - INITIAL	#N/A	mg/kg	ug/kg															
1746-01-6	2,3,7,8-Tetrachlorodibenzo-p-dioxin	SOLID - INITIAL	#N/A	mg/kg	ng/g															
181274-15-7	Propoxycarbazone-sodium	SOLID - INITIAL	#N/A	mg/kg	mg/kg															
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-P-Dioxin	SOLID - INITIAL	94064.99	mg/kg	ng/g															
298-02-2	Phorate	SOLID - INITIAL	#N/A	mg/kg	ug/kg															

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Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	Hole Ref	ARP16-MPT BH111	ARP16-MPT BH112	ARP16-MPT BH112	ARP16-MPT BH114	ARP16-MPT BH114	ARP16-MPT BH114	ARP16-MPT BH115	ARP16-MPT BH115	ARP16-MPT BH116	ARP16-MPT BH116	ARP16-MPT BH116	ARP16-MPT BH117	ARP16-MPT BH117	ARP16-MPT IP101	ARP16-MPT IP101	ARP16-MPT IP101	ARP16-MPT TP101	ARP16-MPT TP101	ARP16-MPT TP103	ARP16-MPT TP103
						Sample Top	Lookup soil	Sample Ref	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
103-33-3	Azobenzene	SOLID - INITIAL	0.38	mg/kg	ug/kg																					
106-47-8	4-Chloroaniline	SOLID - INITIAL	0.01	mg/kg	ug/kg																					
700-57-23	4-Chlorophenylphenylether	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					
88-74-4	2-Nitroaniline	SOLID - INITIAL	0.01	mg/kg	ug/kg																					
99-09-2	3-Nitroaniline	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					
994-05-8	Tertiary Amyl Methyl Ether	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					
1336-36-6	PCB Total (WAC only)	SOLID	#N/A	mg/kg	mg/kg																					
P1330	BTEX (total) WAC	SOLID	#N/A	mg/kg	mg/kg																					

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Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	Hole Ref	ARP16-MPT TP103	ARP16-MPT TP103	ARP16-MPT TP103	ARP16-MPT TP103	ARP16-MPT TP104	ARP16-MPT TP104	ARP16-MPT TP104	ARP16-MPT TP104	ARP16-MPT TP105	ARP16-MPT TP105	ARP16-MPT TP106	ARP16-MPT TP106	ARP16-MPT TP107	ARP16-MPT TP107	ARP16-MPT TP107	ARP16-MPT TP108	ARP16-MPT TP108	ARP16-MPT TP108	ARP16-MPT TT102	ARP16-MPT TT102
						Sample Top	Lookup soil	Sample Ref	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
98-06-6	Tert-Butylbenzene	SOLID - INITIAL	0.75	mg/kg	mg/kg																					
98-82-8	Isopropylbenzene	SOLID - INITIAL	0.27	mg/kg	mg/kg																					
99-09-2	3-Nitroaniline	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
99-65-0	M-Dinitrobenzene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
99-87-6	4-Isopropyltoluene	SOLID - INITIAL	54.06	mg/kg	mg/kg																					
P1374	xylene	SOLID - INITIAL	0.23	mg/kg	mg/kg					<0.01	<0.01	<0.01	<0.01			<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
18540-29-9	chromium hexavalent	SOLID - INITIAL	0.02	mg/kg	mg/kg																					
P1095	Cyanide Free	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
P1239	Complex Cyanide	SOLID - INITIAL	0.26	mg/kg	mg/kg																					
31508-00-6	PCB-118 2,3,4,4,5 - Pentachlorobiphenyl	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
32598-13-3	PCB 77	SOLID - INITIAL	6185.41	mg/kg	mg/kg																					
32598-14-4	PCB 105	SOLID - INITIAL	8940.63	mg/kg	mg/kg																					
32774-16-6	PCB 169	SOLID - INITIAL	37270.75	mg/kg	mg/kg																					
38380-08-4	PCB-156 2,3,3,4,4,5 - Hexachlorobiphenyl	SOLID - INITIAL	3172.26	mg/kg	mg/kg																					
39635-31-9	PCB 189	SOLID - INITIAL	270002.64	mg/kg	mg/kg																					
52663-72-6	PCB 167	SOLID - INITIAL	45853.03	mg/kg	mg/kg																					
57465-28-8	PCB 126	SOLID - INITIAL	8940.63	mg/kg	mg/kg																					
65510-44-3	PCB 123	SOLID - INITIAL	8940.63	mg/kg	mg/kg																					
69782-90-7	PCB 157	SOLID - INITIAL	45853.03	mg/kg	mg/kg																					
70362-50-4	PCB 81	SOLID - INITIAL	8940.63	mg/kg	mg/kg																					
74472-37-0	PCB 114	SOLID - INITIAL	8940.63	mg/kg	mg/kg																					
100-02-7	4-Nitrophenol	SOLID	0.04	mg/kg	ug/kg																				<100	
100-41-4	Ethylbenzene	SOLID	0.53	mg/kg	ug/kg																					<1
100-42-5	Styrene	SOLID	1.04	mg/kg	ug/kg																					<1
10061-01-5	cis 1,3-Dichloropropene	SOLID	#N/A	mg/kg	ug/kg																					<1
10061-02-6	trans 1,3-Dichloropropene	SOLID	#N/A	mg/kg	ug/kg																					<1
103-65-1	Propylbenzene	SOLID	0.28	mg/kg	ug/kg																					<1
104-51-8	n-Butylbenzene	SOLID	1.39	mg/kg	ug/kg																					<1
105-67-9	2,4-Dimethylphenol	SOLID	1.18	mg/kg	ug/kg																					<100
106-43-4	4-Chlorotoluene	SOLID	#N/A	mg/kg	ug/kg																					<1
106-44-5	4-Methylphenol	SOLID	0.53	mg/kg	ug/kg																					<100
106-46-7	1,4-Dichlorobenzene	SOLID	48.01	mg/kg	ug/kg																					<1
106-93-4	1,2-Dibromoethane	SOLID	#N/A	mg/kg	ug/kg																					<1
107-06-2	1,2-Dichloroethane	SOLID	#N/A	mg/kg	ug/kg																					<2
108-67-8	1,3,5-Trimethylbenzene	SOLID	0.15	mg/kg	ug/kg																					<1
108-86-1	Bromobenzene	SOLID	#N/A	mg/kg	ug/kg																					<1
108-88-3	Toluene	SOLID	0.88	mg/kg	ug/kg																					<1
108-90-7	Chlorobenzene	SOLID	4.46	mg/kg	ug/kg																					<1
108-95-2	Phenol	SOLID	0.04	mg/kg	ug/kg																					<100
111-44-4	Bis(2-chloroethyl)ether	SOLID	#N/A	mg/kg	ug/kg																					<100
111-91-1	Bis(2-chloroethoxy)methane	SOLID	0.01	mg/kg	ug/kg																					<100
117-81-7	Bis(2-ethylhexyl)phthalate	SOLID	18472.17	mg/kg	ug/kg																					<100
117-84-0	n-Dioctylphthalate	SOLID	146035.35	mg/kg	ug/kg																					<100
118-74-1	Hexachlorobenzene	SOLID	0.23	mg/kg	ug/kg																					<100
120-82-1	1,2,4-Trichlorobenzene	SOLID	1.81	mg/kg	ug/kg																					<3
120-83-2	2,4-Dichlorophenol	SOLID	0.28	mg/kg	ug/kg																					<100
121-14-2	2,4-Dinitrotoluene	SOLID	0.00	mg/kg	ug/kg																					<100
124-48-1	Dibromochloromethane	SOLID	#N/A	mg/kg	ug/kg																					<3
127-18-4	Tetrachloroethene	SOLID	1.46	mg/kg	ug/kg																					<1
131-11-3	Dimethyl phthalate	SOLID	#N/A	mg/kg	ug/kg																					<100
132-64-9	Dibenzofuran	SOLID	0.49	mg/kg	ug/kg																					<100
135-98-8	sec-Butylbenzene	SOLID	1.39	mg/kg	ug/kg																					<1
142-28-9	1,3-Dichloropropane	SOLID	#N/A	mg/kg	ug/kg																					<1
156-59-2	cis 1,2-Dichloroethene	SOLID	0.31	mg/kg	ug/kg																					<1
156-60-5	trans 1,2-Dichloroethene	SOLID	#N/A	mg/kg	ug/kg																					<1
198-55-0	Perylene	SOLID	206.28	mg/kg	ug/kg																					1760.0
39638-32-9	Bis(2-chloroisopropyl)ether	SOLID	#N/A	mg/kg	ug/kg																					<100
541-73-1	1,3-Dichlorobenzene	SOLID	145.60	mg/kg	ug/kg																					<1
56-23-5	Carbon Tetrachloride	SOLID	#N/A	mg/kg	ug/kg																					<1
563-58-6	1,1-Dichloropropene	SOLID	0.41	mg/kg	ug/kg																					<1
594-20-7	2,2-Dichloropropane	SOLID	#N/A	mg/kg	ug/kg																					<1
59-50-7	4-Chloro-3-methylphenol	SOLID	2.93	mg/kg	ug/kg																					<100
606-20-2	2,6-Dinitrotoluene	SOLID	1.48	mg/kg	ug/kg																					<100
621-64-7	n-Nitroso-n-dipropylamine	SOLID	#N/A	mg/kg	ug/kg																					<100
630-20-6	1,1,1,2-Tetrachloroethane	SOLID	#N/A	mg/kg	ug/kg																					<1
67-66-3	Chloroform	SOLID	#N/A	mg/kg	ug/kg																					

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Hole Ref	ARP16-MPT TP103	ARP16-MPT TP103	ARP16-MPT TP103	ARP16-MPT TP103	ARP16-MPT TP104	ARP16-MPT TP104	ARP16-MPT TP104	ARP16-MPT TP104	ARP16-MPT TP104	ARP16-MPT TP105	ARP16-MPT TP105	ARP16-MPT TP106	ARP16-MPT TP106	ARP16-MPT TP107	ARP16-MPT TP107	ARP16-MPT TP107	ARP16-MPT TP108	ARP16-MPT TP108	ARP16-MPT TP108	ARP16-MPT TT102	ARP16-MPT TT102
Sample Top	1.20	2.00	3.00	3.20	0.30	0.50	1.20	2.20	0.30	1.00	0.00	1.20	0.10	0.30	1.00	0.30	0.50	1.00	0.30	1.00	
Lookup soil	MG	MG	MG	CHK	MG	MG	MG	CHK	CWF	CWF	MG	CWF	MG	CWF	CWF	MG	MG	CWF	MG	CWF	
Sample Ref	3	4	5	6	1	2	3	4	1	2	1	2	1	2	3	1	2	3	1	2	
Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	

Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	
1610-18-0	Prometon SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																	
16118-49-3	Carbetamide	SOLID	#N/A	mg/kg	mg/kg																	
1689-83-4	loxynil	SOLID	#N/A	mg/kg	mg/kg																	
1689-84-5	Bromoxynil	SOLID	#N/A	mg/kg	mg/kg																	
1702-17-6	Clopyralid	SOLID	#N/A	mg/kg	mg/kg																	
1746-81-2	Monolinuron	SOLID	#N/A	mg/kg	mg/kg																	
18691-97-9	Methabenzthiazuron	SOLID	#N/A	mg/kg	mg/kg																	
1897-45-6	Chlorothalonil	SOLID	#N/A	mg/kg	ug/kg																	
1912-24-9	Atrazine SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																	
1918-00-9	Dicamba	SOLID	#N/A	mg/kg	mg/kg																	
6607	Picloram	SOLID	#N/A	mg/kg	mg/kg																	
1967-16-4	Chlorbufam	SOLID	#N/A	mg/kg	mg/kg																	
1982-47-4	Chloroxuron	SOLID	#N/A	mg/kg	mg/kg																	
19937-59-8	Metoxuron	SOLID	#N/A	mg/kg	mg/kg																	
2132-70-9	p,p-Methoxychlor	SOLID	#N/A	mg/kg	ug/kg																	
2274-67-1	Chlorpyrifos-methyl	SOLID	#N/A	mg/kg	ug/kg																	
2303-17-5	Triallate	SOLID	#N/A	mg/kg	ug/kg																	
2310-17-0	Phosalone	SOLID	#N/A	mg/kg	ug/kg																	
23103-98-2	Pirimicarb	SOLID	#N/A	mg/kg	mg/kg																	
24017-47-8	Triazophos	SOLID	#N/A	mg/kg	ug/kg																	
25057-89-0	Bentazone	SOLID	#N/A	mg/kg	mg/kg																	
2642-71-9	Azinphos-ethyl	SOLID	#N/A	mg/kg	ug/kg																	
2921-88-2	Chlorpyrifos	SOLID	#N/A	mg/kg	ug/kg																	
29232-93-7	Pirimiphos Methyl	SOLID	#N/A	mg/kg	ug/kg																	
297-78-9	Telodrin	SOLID	#N/A	mg/kg	ug/kg																	
298-00-0	Methyl Parathion	SOLID	#N/A	mg/kg	ug/kg																	
298-01-1	Mevinphos	SOLID	#N/A	mg/kg	ug/kg																	
298-04-4	Disulfoton SUBCON OCP Alcontrol	SOLID	#N/A	mg/kg	ug/kg																	
29973-13-5	Ethiofencarb	SOLID	#N/A	mg/kg	mg/kg																	
30667-99-3	o,p-Methoxychlor	SOLID	#N/A	mg/kg	ug/kg																	
309-00-2	Aldrin SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																	
31218-83-4	Propetamphos	SOLID	#N/A	mg/kg	ug/kg																	
314-40-9	Bromacil	SOLID	#N/A	mg/kg	mg/kg																	
319-84-6	alpha-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																	
	beta-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																	
319-85-7		SOLID	#N/A	mg/kg	ug/kg																	
330-54-1	Diuron SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																	
330-55-2	Linuron	SOLID	#N/A	mg/kg	mg/kg																	
33213-65-9	Endosulphan II	SOLID	#N/A	mg/kg	ug/kg																	
333-41-5	Diazinon	SOLID	#N/A	mg/kg	ug/kg																	
34123-59-6	Isoproturon	SOLID	#N/A	mg/kg	mg/kg																	
34205-21-5	Dimefuron	SOLID	#N/A	mg/kg	mg/kg																	
3424-82-6	o,p-DDE	SOLID	#N/A	mg/kg	ug/kg																	
35367-38-5	Diflufenzuron	SOLID	#N/A	mg/kg	mg/kg																	
698836	Benazolin	SOLID	#N/A	mg/kg	mg/kg																	
38260-54-7	Etrimpfos	SOLID	#N/A	mg/kg	ug/kg																	
40483-25-2	Diclofop	SOLID	#N/A	mg/kg	mg/kg																	
40487-42-1	Pendimethalin	SOLID	#N/A	mg/kg	ug/kg																	
43121-43-3	Triadimefon	SOLID	#N/A	mg/kg	ug/kg																	
465-73-6	Isodrin	SOLID	#N/A	mg/kg	ug/kg																	
470-90-6	Chlorfenvinphos	SOLID	#N/A	mg/kg	ug/kg																	
50-29-3	p,p-DDT SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																	
50-31-7	2,3,6-TBA	SOLID	#N/A	mg/kg	mg/kg																	
5103-71-9	cis-Chlordane SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																	
5103-74-2	trans-Chlordane SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																	
51630-58-1	Fenvalerate SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																	
52315-07-8	Cypermethrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																	
52645-53-1	Permethrin SUBCON RPS MH Pyrethroids	SOLID	#N/A	mg/kg	mg/kg																	
52756-22-6	Flamprop-isopropyl	SOLID	#N/A	mg/kg	mg/kg																	
52918-63-5	Deltamethrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																	
53-19-0	o,p-TDE (DDD)	SOLID	#N/A	mg/kg	ug/kg																	
55335-06-3	Triclopyr	SOLID	#N/A	mg/kg	mg/kg																	
55-38-9	Fenthion	SOLID	#N/A	mg/kg	ug/kg																	
563-12-2	Ethion	SOLID	#N/A	mg/kg	ug/kg																	
56-38-2	Parathion (Ethyl Parathion)	SOLID	#N/A	mg/kg	ug/kg																	
58667-63-3	Fiamprop	SOLID	#N/A	mg/kg	mg/kg																	

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Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	ARP16-MPT TP103	ARP16-MPT TP103	ARP16-MPT TP103	ARP16-MPT TP103	ARP16-MPT TP104	ARP16-MPT TP104	ARP16-MPT TP104	ARP16-MPT TP104	ARP16-MPT TP105	ARP16-MPT TP105	ARP16-MPT TP106	ARP16-MPT TP106	ARP16-MPT TP107	ARP16-MPT TP107	ARP16-MPT TP107	ARP16-MPT TP108	ARP16-MPT TP108	ARP16-MPT TP108	ARP16-MPT TT102	ARP16-MPT TT102
						Sample Top	Lookup soil	Sample Ref	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
58-89-9	gamma-Hexachlorocyclohexane (HCH / Lindane)	SOLID	#N/A	mg/kg	ug/kg																				
5915-41-3	Terbutylazine SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																				
60-51-5	Dimethoate	SOLID	#N/A	mg/kg	ug/kg																				
60-57-1	Dieldrin SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																				
61949-76-6	Permethrin I (cis) SUBCON Alcontrol OCP	SOLID	#N/A	mg/kg	ug/kg																				
61949-77-7	Permethrin II (trans) SUBCON Alcontrol OCP	SOLID	#N/A	mg/kg	ug/kg																				
62-73-7	Dichlorvos	SOLID	#N/A	mg/kg	ug/kg																				
639-58-7	Triphenyltin SUBCON I2	SOLID	#N/A	mg/kg	ug/kg																				
66063-05-6	Pencycuron	SOLID	#N/A	mg/kg	mg/kg																				
68085-85-8	Cyhalothrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																				
683-18-1	Dibutyltin Subcon I2	SOLID	#N/A	mg/kg	ug/kg																				
68359-37-5	Cyfluthrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																				
72-20-8	Endrin SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																				
72-54-8	p,p-TDE (DDD)	SOLID	#N/A	mg/kg	ug/kg																				
72-55-9	p,p-DDE	SOLID	#N/A	mg/kg	ug/kg																				
7287-19-6	Prometryn SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																				
76-44-8	Heptachlor SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																				
786-19-6	Carbophenothion	SOLID	#N/A	mg/kg	ug/kg																				
789-02-6	o,p-DDT SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																				
81406-37-3	Fluroxypyr	SOLID	#N/A	mg/kg	mg/kg																				
82-68-8	Quintozene; (PCNB)	SOLID	#N/A	mg/kg	ug/kg																				
834-12-8	Ametryn SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																				
86-50-0	Azinphos-methyl	SOLID	#N/A	mg/kg	ug/kg																				
886-50-0	Terbutryn SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																				
93-65-2	MCCPP; (Mecoprop)	SOLID	#N/A	mg/kg	mg/kg																				
93-72-1	2,4,5-TP; (Fenoprop); (Silvex)	SOLID	#N/A	mg/kg	mg/kg																				
93-76-5	2,4,5-T	SOLID	#N/A	mg/kg	mg/kg																				
94-74-6	MCPA	SOLID	#N/A	mg/kg	mg/kg																				
94-75-7	2,4-D	SOLID	#N/A	mg/kg	mg/kg																				
94-81-5	MCPB	SOLID	#N/A	mg/kg	mg/kg																				
94-82-6	2,4-DB	SOLID	#N/A	mg/kg	mg/kg																				
959-98-8	Endosulphan I	SOLID	#N/A	mg/kg	ug/kg																				
P1362	TPH Aromatic >C35-C44	SOLID	657.18	mg/kg	mg/kg				13.0	2.3	<0.1	<0.1												27.1	
P1415	TPH Aliphatic >C35-C44	SOLID	6927070.30	mg/kg	mg/kg				17.6	8.3	<0.1	<0.1												22.3	
120-12-7	Anthracene	SOLID	0.16	mg/kg	ug/kg																				
129-00-0	Pyrene	SOLID	1.88	mg/kg	ug/kg																				
191-24-2	Benzo(g,h,i)perylene	SOLID	2.42	mg/kg	ug/kg																				
193-39-5	Indeno(1,2,3-cd)pyrene	SOLID	0.51	mg/kg	ug/kg																				
205-99-2	Benzo(b)fluoranthene	SOLID	0.61	mg/kg	ug/kg																				
206-44-0	Fluoranthene	SOLID	0.01	mg/kg	ug/kg																				
207-08-9	Benzo(k)fluoranthene	SOLID	0.86	mg/kg	ug/kg																				
208-96-8	Acenaphthylene	SOLID	1.01	mg/kg	ug/kg																				
218-01-9	Chrysene	SOLID	6.38	mg/kg	ug/kg																				
50-32-8	Benzo(a)pyrene	SOLID	0.07	mg/kg	ug/kg																				
53-70-3	Dibenzo(a,h)anthracene	SOLID	10.80	mg/kg	ug/kg																				
56-55-3	Benzo(a)anthracene	SOLID	4.50	mg/kg	ug/kg																				
83-32-9	Acenaphthene	SOLID	965.39	mg/kg	ug/kg																				
85-01-8	Phenanthrene	SOLID	3.35	mg/kg	ug/kg																				
86-73-7	Fluorene	SOLID	1.76	mg/kg	ug/kg																				
91-20-3	Napthalene	SOLID	0.08	mg/kg	ug/kg																				
302-04-5	Thiocyanate	SOLID	62.96	mg/kg	mg/kg																				
P1879	Xylenols	SOLID - INITIAL	2.39	mg/kg	mg/kg																				
P2098	Cresols	SOLID - INITIAL	0.54	mg/kg	mg/kg																				
12001-28-4	Asbestos: Crocidolite	SOLID - INITIAL	#N/A	mg/kg	No units																				
12001-29-5	Asbestos: Chrysotile	SOLID - INITIAL	#N/A	mg/kg	No units																				
12172-67-7	Asbestos: Actinolite	SOLID - INITIAL	#N/A	mg/kg	No units																				
12172-73-5	Asbestos: Amosite	SOLID - INITIAL	#N/A	mg/kg	No units																				
14567-73-8	Asbestos: Tremolite	SOLID - INITIAL	#N/A	mg/kg	No units																				
17068-78-9	Asbestos: Anthophyllite	SOLID - INITIAL	#N/A	mg/kg	No units																				
1002-53-5	Dibutyl Tin	SOLID - INITIAL	0.00	mg/kg	mg/kg																				
1461-22-9	Tributyltin	SOLID - INITIAL	0.00	mg/kg	mg/kg																				
1461-25-2	Tetrabutyl Tin	SOLID - INITIAL	0.00	mg/kg	mg/kg																				
1634-04-4	Methyl tert-butyl ether (MTBE)	SOLID - INITIAL	#N/A	mg/kg	ug/kg																				
1746-01-6	2,3,7,8-Tetrachlorodibenzo-p-dioxin	SOLID - INITIAL	#N/A	mg/kg	ng/g																				
181274-15-7	Propoxycarbazono-sodium	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-P-Dioxin	SOLID - INITIAL	94064.99	mg/kg	ng/g																				
298-02-2	Phorate	SOLID - INITIAL	#N/A	mg/kg	ug/kg																				

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Hole Ref	ARP16-MPT TP103	ARP16-MPT TP103	ARP16-MPT TP103	ARP16-MPT TP103	ARP16-MPT TP104	ARP16-MPT TP104	ARP16-MPT TP104	ARP16-MPT TP104	ARP16-MPT TP104	ARP16-MPT TP105	ARP16-MPT TP105	ARP16-MPT TP106	ARP16-MPT TP106	ARP16-MPT TP107	ARP16-MPT TP107	ARP16-MPT TP107	ARP16-MPT TP108	ARP16-MPT TP108	ARP16-MPT TP108	ARP16-MPT TT102	ARP16-MPT TT102
Sample Top	1.20	2.00	3.00	3.20	0.30	0.50	1.20	2.20	0.30	1.00	0.00	1.20	0.10	0.30	1.00	0.30	0.50	1.00	0.30	1.00	1.00
Lookup soil	MG	MG	MG	CHK	MG	MG	MG	CHK	CWF	CWF	MG	CWF	MG	CWF	CWF	MG	MG	CWF	MG	MG	CWF
Sample Ref	3	4	5	6	1	2	3	4	1	2	1	2	1	2	3	1	2	3	1	2	2
Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES

Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	ARP16-MPT TP103	ARP16-MPT TP103	ARP16-MPT TP103	ARP16-MPT TP103	ARP16-MPT TP104	ARP16-MPT TP104	ARP16-MPT TP104	ARP16-MPT TP104	ARP16-MPT TP105	ARP16-MPT TP105	ARP16-MPT TP106	ARP16-MPT TP106	ARP16-MPT TP107	ARP16-MPT TP107	ARP16-MPT TP107	ARP16-MPT TP108	ARP16-MPT TP108	ARP16-MPT TP108	ARP16-MPT TT102	ARP16-MPT TT102
31508-00-6	PCB-118 2,3',4,4',5 - Pentachlorobiphenyl	SOLID - INITIAL	694.02	mg/kg	ng/g																				
32598-13-3	PCB 77	SOLID - INITIAL	6185.41	mg/kg	ng/g																				
32598-14-4	PCB 105	SOLID - INITIAL	8940.63	mg/kg	ng/g																				
3268-87-9	Octachlorodibenzo-p-dioxin	SOLID - INITIAL	91923.81	mg/kg	ng/g																				
32774-16-6	PCB 169	SOLID - INITIAL	37270.75	mg/kg	ng/g																				
3380-34-5	Triclosan	SOLID - INITIAL	0.33	mg/kg	mg/kg																				
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-P-Dioxin	SOLID - INITIAL	91923.81	mg/kg	ng/g																				
38380-08-4	PCB-156 2,3,3,4,4,5 - Hexachlorobiphenyl	SOLID - INITIAL	3172.26	mg/kg	ng/g																				
39001-02-0	Octachlorodibenzofuran	SOLID - INITIAL	46180.43	mg/kg	ng/g																				
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-P-Dioxin	SOLID - INITIAL	36595.53	mg/kg	ng/g																				
39635-31-9	PCB 189	SOLID - INITIAL	270002.64	mg/kg	ng/g																				
40321-76-4	1,2,3,7,8-Pentachlorodibenzo-P-Dioxin	SOLID - INITIAL	#N/A	mg/kg	ng/g																				
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	SOLID - INITIAL	393.06	mg/kg	ng/g																				
52645-53-1	Permethrin	SOLID - INITIAL	#N/A	mg/kg	ug/kg																				
52663-72-6	PCB 167	SOLID - INITIAL	45853.03	mg/kg	ng/g																				
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	SOLID - INITIAL	9648.46	mg/kg	ng/g																				
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	SOLID - INITIAL	964.85	mg/kg	ng/g																				
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	SOLID - INITIAL	715.25	mg/kg	ng/g																				
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	SOLID - INITIAL	715.25	mg/kg	ng/g																				
57465-28-8	PCB 126	SOLID - INITIAL	8940.63	mg/kg	ng/g																				
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-P-Dioxin	SOLID - INITIAL	91923.81	mg/kg	ng/g																				
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofura	SOLID - INITIAL	715.25	mg/kg	ng/g																				
62476-59-9	Acifluorfen	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
65510-44-3	PCB 123	SOLID - INITIAL	8940.63	mg/kg	ng/g																				
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	SOLID - INITIAL	715.25	mg/kg	ng/g																				
69782-90-7	PCB 157	SOLID - INITIAL	45853.03	mg/kg	ng/g																				
70362-50-4	PCB 81	SOLID - INITIAL	8940.63	mg/kg	ng/g																				
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	SOLID - INITIAL	715.25	mg/kg	ng/g																				
7085-19-0	mecoprop	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
72-43-5	Methoxychlor	SOLID - INITIAL	#N/A	mg/kg	ug/kg																				
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	SOLID - INITIAL	#N/A	mg/kg	ng/g																				
74472-37-0	PCB 114	SOLID - INITIAL	8940.63	mg/kg	ng/g																				
88-85-7	Dinoseb	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
892-20-6	Triphenyltin	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
P1330	BTEX	SOLID - INITIAL	0.00	mg/kg	ug/kg																				
P1354	TPH Aromatic >C6-C7	SOLID - INITIAL	0.05	mg/kg	ug/kg																				
P1355	TPH Aromatics > C7-C8	SOLID - INITIAL	#N/A	mg/kg	ug/kg																				
P1356	Aromatics >C8-10	SOLID - INITIAL	#N/A	mg/kg	ug/kg																				
P1357	Aromatics >C10-12	SOLID - INITIAL	#N/A	mg/kg	ug/kg																				
P1358	Aromatics >C12-16	SOLID - INITIAL	#N/A	mg/kg	ug/kg																				
P1359	Aromatics >C16-21	SOLID - INITIAL	#N/A	mg/kg	ug/kg																				
P1360	Aromatics >C21-35	SOLID - INITIAL	#N/A	mg/kg	ug/kg																				
P1362	Aromatics >C35-44	SOLID - INITIAL	#N/A	mg/kg	ug/kg																				
P1407	Aliphatics >C5-6	SOLID - INITIAL	#N/A	mg/kg	ug/kg																				
P1408	Aliphatics >C6-8	SOLID - INITIAL	#N/A	mg/kg	ug/kg																				
P1409	Aliphatics >C8-10	SOLID - INITIAL	#N/A	mg/kg	ug/kg																				
P1410	Aliphatics >C10-12	SOLID - INITIAL	#N/A	mg/kg	ug/kg																				
P1411	Aliphatics >C12-16	SOLID - INITIAL	#N/A	mg/kg	ug/kg																				
P1412	Aliphatics >C16-21	SOLID - INITIAL	#N/A	mg/kg	ug/kg																				
P1413	Aliphatics >C21-35	SOLID - INITIAL	#N/A	mg/kg	ug/kg																				
P1415	Aliphatics >C35-44	SOLID - INITIAL	#N/A	mg/kg	ug/kg																				
15541-45-4	Bromate	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
16065-83-1	Trivalent Chromium	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
16887-00-6	Chloride	SOLID - INITIAL	268.18	mg/kg	mg/kg																				
16984-48-8	Fluoride	SOLID - INITIAL	0.41	mg/kg	mg/kg																				
18496-25-8	Sulphide	SOLID - INITIAL	#VALUE!	mg/kg	mg/kg																				
24959-67-9	Bromide	SOLID - INITIAL	#VALUE!	mg/kg	mg/kg																				
7439-89-6	Iron	SOLID - INITIAL	44.05	mg/kg	mg/kg																				
7439-95-4	Magnesium	SOLID - INITIAL	0.00	mg/kg	mg/kg																				
7439-98-7	Molybdenum	SOLID - INITIAL	0.10	mg/kg	mg/kg																				
2023695	Potassium	SOLID - INITIAL	0.00	mg/kg	mg/kg																				
7440-23-5	Sodium	SOLID - INITIAL	263.64	mg/kg	mg/kg																				
7440-70-2	Calcium	SOLID - INITIAL	0.00	mg/kg	mg/kg																				
P1238	Ammoniacal Nitrogen as N	SOLID - INITIAL	0.11	mg/kg	mg/kg																				
P1286	Manganese	SOLID - INITIAL	2.51	mg/kg	mg/kg																				
100-01-6	4-Nitroaniline	SOLID - INITIAL	0.00	mg/kg	ug/kg																				
101-55-3	4-Bromophenyl Phenyl Ether	SOLID - INITIAL	#N/A	mg/kg	ug/kg																				

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Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	Hole Ref	ARP16-MPT TP103	ARP16-MPT TP103	ARP16-MPT TP103	ARP16-MPT TP103	ARP16-MPT TP104	ARP16-MPT TP104	ARP16-MPT TP104	ARP16-MPT TP104	ARP16-MPT TP105	ARP16-MPT TP105	ARP16-MPT TP106	ARP16-MPT TP106	ARP16-MPT TP107	ARP16-MPT TP107	ARP16-MPT TP107	ARP16-MPT TP108	ARP16-MPT TP108	ARP16-MPT TP108	ARP16-MPT TT102	ARP16-MPT TT102
						Sample Top	1.20	2.00	3.00	3.20	0.30	0.50	1.20	2.20	0.30	1.00	0.00	1.20	0.10	0.30	1.00	0.30	0.50	1.00	0.30	0.50
						Lookup soil	MG	MG	MG	CHK	MG	MG	MG	CHK	CWF	CWF	MG	CWF	MG	CWF	CWF	MG	MG	CWF	MG	CWF
						Sample Ref	3	4	5	6	1	2	3	4	1	2	1	2	1	2	3	1	2	3	1	2
							ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
103-33-3	Azobenzene	SOLID - INITIAL	0.38	mg/kg	ug/kg																					
106-47-8	4-Chloroaniline	SOLID - INITIAL	0.01	mg/kg	ug/kg																					
700-57-23	4-Chlorophenylphenylether	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					
88-74-4	2-Nitroaniline	SOLID - INITIAL	0.01	mg/kg	ug/kg																					
99-09-2	3-Nitroaniline	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					
994-05-8	Tertiary Amyl Methyl Ether	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					
1336-36-6	PCB Total (WAC only)	SOLID	#N/A	mg/kg	mg/kg																					
P1330	BTEX (total) WAC	SOLID	#N/A	mg/kg	mg/kg																					

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Hole Ref	AEC18-LF-BBH204	AEC18-LF-BBH207	AEC18-LF-BBH209	AEC18-LF-BBH210	AEC18-LF-BBH210	AEC18-LF-BBH210	AEC18-LF-BBH210	AEC18-LF-BH201 (PFCP71)	AEC18-LF-BH201 (PFCP71)	AEC18-LF-BH202	AEC18-LF-BH202A	AEC18-LF-BH202A	AEC18-LF-BH202A	AEC18-LF-BH203	AEC18-LF-BH203	AEC18-LF-BH203	AEC18-LF-BH203	AEC18-LF-BH203	AEC18-LF-BH203	AEC18-LF-BH204	AEC18-LF-BH204	AEC18-LF-BH204
Sample Top	0.50	0.30	0.40	0.70	2.70	4.00	0.90	5.60	0.50	0.40	5.00	8.30	0.50	11.10	2.50	5.30	8.30	0.30	11.00	5.00		
Lookup soil	CwF	MADE GROUND	CwF	MADE GROUND	MADE GROUND	MADE GROUND	MADE GROUND	MG-LF	MADE GROUND	MADE GROUND	MADE GROUND	MG-LF	MADE GROUND	HEAD	MADE GROUND	MG-LF	MG-LF	TS	MG-LF	MG-LF		
Sample Ref	2	1	2	2	5	7	2	4	2	1	5	6	2	9	5	6	7	1	7	5		
Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
98-06-6	Tert-Butylbenzene	SOLID - INITIAL	0.75	mg/kg	mg/kg																	
98-82-8	Isopropylbenzene	SOLID - INITIAL	0.27	mg/kg	mg/kg																	
99-09-2	3-Nitroaniline	SOLID - INITIAL	#N/A	mg/kg	mg/kg																	
99-65-0	M-Dinitrobenzene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																	
99-87-6	4-Isopropyltoluene	SOLID - INITIAL	54.06	mg/kg	mg/kg																	
P1374	xylene	SOLID - INITIAL	0.23	mg/kg	mg/kg																	
18540-29-9	chromium hexavalent	SOLID - INITIAL	0.02	mg/kg	mg/kg								<0.6				<0.6				<0.3	<0.3
P1095	Cyanide Free	SOLID - INITIAL	#N/A	mg/kg	mg/kg																	
P1239	Complex Cyanide	SOLID - INITIAL	0.26	mg/kg	mg/kg																	
31508-00-6	PCB-118 2,3,4,4,5 - Pentachlorobiphenyl	SOLID - INITIAL	#N/A	mg/kg	mg/kg																	
32598-13-3	PCB 77	SOLID - INITIAL	6185.41	mg/kg	mg/kg																	
32598-14-4	PCB 105	SOLID - INITIAL	8940.63	mg/kg	mg/kg																	
32774-16-6	PCB 169	SOLID - INITIAL	37270.75	mg/kg	mg/kg																	
38380-08-4	PCB-156 2,3,3,4,4,5 - Hexachlorobiphenyl	SOLID - INITIAL	3172.26	mg/kg	mg/kg																	
39635-31-9	PCB 189	SOLID - INITIAL	270002.64	mg/kg	mg/kg																	
52663-72-6	PCB 167	SOLID - INITIAL	45853.03	mg/kg	mg/kg																	
57465-28-8	PCB 126	SOLID - INITIAL	8940.63	mg/kg	mg/kg																	
65510-44-3	PCB 123	SOLID - INITIAL	8940.63	mg/kg	mg/kg																	
69782-90-7	PCB 157	SOLID - INITIAL	45853.03	mg/kg	mg/kg																	
70362-50-4	PCB 81	SOLID - INITIAL	8940.63	mg/kg	mg/kg																	
74472-37-0	PCB 114	SOLID - INITIAL	8940.63	mg/kg	mg/kg																	
100-02-7	4-Nitrophenol	SOLID	0.04	mg/kg	ug/kg																	<100
100-41-4	Ethylbenzene	SOLID	0.53	mg/kg	ug/kg																	<200
100-42-5	Styrene	SOLID	1.04	mg/kg	ug/kg																	<100
10061-01-5	cis 1,3-Dichloropropene	SOLID	#N/A	mg/kg	ug/kg																	<100
10061-02-6	trans 1,3-Dichloropropene	SOLID	#N/A	mg/kg	ug/kg																	<100
103-65-1	Propylbenzene	SOLID	0.28	mg/kg	ug/kg																	17.0
104-51-8	n-Butylbenzene	SOLID	1.39	mg/kg	ug/kg																	<110
105-67-9	2,4-Dimethylphenol	SOLID	1.18	mg/kg	ug/kg																	<100
106-43-4	4-Chlorotoluene	SOLID	#N/A	mg/kg	ug/kg																	<100
106-44-5	4-Methylphenol	SOLID	0.53	mg/kg	ug/kg																	<100
106-46-7	1,4-Dichlorobenzene	SOLID	48.01	mg/kg	ug/kg																	<100
106-93-4	1,2-Dibromoethane	SOLID	#N/A	mg/kg	ug/kg																	<100
107-06-2	1,2-Dichloroethane	SOLID	#N/A	mg/kg	ug/kg																	<50
108-67-8	1,3,5-Trimethylbenzene	SOLID	0.15	mg/kg	ug/kg																	51.6
108-86-1	Bromobenzene	SOLID	#N/A	mg/kg	ug/kg																	<100
108-88-3	Toluene	SOLID	0.88	mg/kg	ug/kg																	<70
108-90-7	Chlorobenzene	SOLID	4.46	mg/kg	ug/kg																	8.3
108-95-2	Phenol	SOLID	0.04	mg/kg	ug/kg																	141.0
111-44-4	Bis(2-chloroethyl)ether	SOLID	#N/A	mg/kg	ug/kg																	<200
111-91-1	Bis(2-chloroethoxy)methane	SOLID	0.01	mg/kg	ug/kg																	<100
117-81-7	Bis(2-ethylhexyl)phthalate	SOLID	18472.17	mg/kg	ug/kg																	371.0
117-84-0	n-Dioctylphthalate	SOLID	146035.35	mg/kg	ug/kg																	<200
118-74-1	Hexachlorobenzene	SOLID	0.23	mg/kg	ug/kg																	<100
120-82-1	1,2,4-Trichlorobenzene	SOLID	1.81	mg/kg	ug/kg																	<100
120-83-2	2,4-Dichlorophenol	SOLID	0.28	mg/kg	ug/kg																	<100
121-14-2	2,4-Dinitrotoluene	SOLID	0.00	mg/kg	ug/kg																	<100
124-48-1	Dibromochloromethane	SOLID	#N/A	mg/kg	ug/kg																	<100
127-18-4	Tetrachloroethene	SOLID	1.46	mg/kg	ug/kg																	<50
131-11-3	Dimethyl phthalate	SOLID	#N/A	mg/kg	ug/kg																	<100
132-64-9	Dibenzofuran	SOLID	0.49	mg/kg	ug/kg																	<200
135-98-8	sec-Butylbenzene	SOLID	1.39	mg/kg	ug/kg																	<100
142-28-9	1,3-Dichloropropane	SOLID	#N/A	mg/kg	ug/kg																	<70
156-59-2	cis 1,2-Dichloroethene	SOLID	0.31	mg/kg	ug/kg																	8.5
156-60-5	trans 1,2-Dichloroethene	SOLID	#N/A	mg/kg	ug/kg																	<100
198-55-0	Perylene	SOLID	206.28	mg/kg	ug/kg																	<100
39638-32-9	Bis(2-chloroisopropyl)ether	SOLID	#N/A	mg/kg	ug/kg																	<100
541-73-1	1,3-Dichlorobenzene	SOLID	145.60	mg/kg	ug/kg																	<100
56-23-5	Carbon Tetrachloride	SOLID	#N/A	mg/kg	ug/kg																	<100
563-58-6	1,1-Dichloropropene	SOLID	0.41	mg/kg	ug/kg																	<100
594-20-7	2,2-Dichloropropane	SOLID	#N/A	mg/kg	ug/kg																	<100
59-50-7	4-Chloro-3-methylphenol	SOLID	2.93	mg/kg	ug/kg																	<100
606-20-2	2,6-Dinitrotoluene	SOLID	1.48	mg/kg	ug/kg																	<100
621-64-7	n-Nitroso-n-dipropylamine	SOLID	#N/A	mg/kg	ug/kg																	<100
630-20-6	1,1,1,2-Tetrachloroethane	SOLID	#N/A	mg/kg	ug/kg																	<100
67-66-3	Chloroform	SOLID	#N/A	mg/kg	ug/kg																	<80
67-72-1	Hexachloroethane	SOLID	3.21	mg/kg	ug/kg																	<100
71-43-2	Benzene	SOLID	0.00	mg/kg	ug/kg																	<90

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Hole Ref	AEC18-LF-BBH204	AEC18-LF-BBH207	AEC18-LF-BBH209	AEC18-LF-BBH210	AEC18-LF-BBH210	AEC18-LF-BBH210	AEC18-LF-BH201 (PFCP71)	AEC18-LF-BH201 (PFCP71)	AEC18-LF-BH202	AEC18-LF-BH202A	AEC18-LF-BH202A	AEC18-LF-BH202A	AEC18-LF-BH203	AEC18-LF-BH203	AEC18-LF-BH203	AEC18-LF-BH203	AEC18-LF-BH203	AEC18-LF-BH204	AEC18-LF-BH204	AEC18-LF-BH204	
Sample Top	0.50	0.30	0.40	0.70	2.70	4.00	0.90	5.60	0.50	0.40	5.00	8.30	0.50	11.10	2.50	5.30	8.30	0.30	11.00	5.00	
Lookup soil	CwF	MADE GROUND	CwF	MADE GROUND	MADE GROUND	MADE GROUND	MADE GROUND	MG-LF	MADE GROUND	MADE GROUND	MADE GROUND	MG-LF	MADE GROUND	HEAD	MADE GROUND	MG-LF	MG-LF	TS	MG-LF	MG-LF	
Sample Ref	2	1	2	2	5	7	2	4	2	1	5	6	2	9	5	6	7	1	7	5	
Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
1610-18-0	Prometon SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																
16118-49-3	Carbetamide	SOLID	#N/A	mg/kg	mg/kg																
1689-83-4	Ioxynil	SOLID	#N/A	mg/kg	mg/kg																
1689-84-5	Bromoxynil	SOLID	#N/A	mg/kg	mg/kg																
1702-17-6	Clopyralid	SOLID	#N/A	mg/kg	mg/kg																
1746-81-2	Monolinuron	SOLID	#N/A	mg/kg	mg/kg																
18691-97-9	Methabenzthiazuron	SOLID	#N/A	mg/kg	mg/kg																
1897-45-6	Chlorothalonil	SOLID	#N/A	mg/kg	ug/kg																
1912-24-9	Atrazine SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																
1918-00-9	Dicamba	SOLID	#N/A	mg/kg	mg/kg																
6607	Picloram	SOLID	#N/A	mg/kg	mg/kg																
1967-16-4	Chlorbufam	SOLID	#N/A	mg/kg	mg/kg																
1982-47-4	Chloroxuron	SOLID	#N/A	mg/kg	mg/kg																
19937-59-8	Metoxuron	SOLID	#N/A	mg/kg	mg/kg																
2132-70-9	p,p-Methoxychlor	SOLID	#N/A	mg/kg	ug/kg																
2274-67-1	Chlorpyrifos-methyl	SOLID	#N/A	mg/kg	ug/kg																
2303-17-5	Triallate	SOLID	#N/A	mg/kg	ug/kg																
2310-17-0	Phosalone	SOLID	#N/A	mg/kg	ug/kg																
23103-98-2	Pirimicarb	SOLID	#N/A	mg/kg	mg/kg																
24017-47-8	Triazophos	SOLID	#N/A	mg/kg	ug/kg																
25057-89-0	Bentazone	SOLID	#N/A	mg/kg	mg/kg																
2642-71-9	Azinphos-ethyl	SOLID	#N/A	mg/kg	ug/kg																
2921-88-2	Chlorpyrifos	SOLID	#N/A	mg/kg	ug/kg																
29232-93-7	Pirimiphos Methyl	SOLID	#N/A	mg/kg	ug/kg																
297-78-9	Telodrin	SOLID	#N/A	mg/kg	ug/kg																
298-00-0	Methyl Parathion	SOLID	#N/A	mg/kg	ug/kg																
298-01-1	Mevinphos	SOLID	#N/A	mg/kg	ug/kg																
298-04-4	Disulfoton SUBCON OCP Alcontrol	SOLID	#N/A	mg/kg	ug/kg																
29973-13-5	Ethiofencarb	SOLID	#N/A	mg/kg	mg/kg																
30667-99-3	o,p-Methoxychlor	SOLID	#N/A	mg/kg	ug/kg																
309-00-2	Aldrin SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																
31218-83-4	Propetamphos	SOLID	#N/A	mg/kg	ug/kg																
314-40-9	Bromacil	SOLID	#N/A	mg/kg	mg/kg																
319-84-6	alpha-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																
	beta-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																
319-85-7		SOLID	#N/A	mg/kg	ug/kg																
330-54-1	Diuron SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																
330-55-2	Linuron	SOLID	#N/A	mg/kg	mg/kg																
33213-65-9	Endosulphan II	SOLID	#N/A	mg/kg	ug/kg																
333-41-5	Diazinon	SOLID	#N/A	mg/kg	ug/kg																
34123-59-6	Isoproturon	SOLID	#N/A	mg/kg	mg/kg																
34205-21-5	Dimefuron	SOLID	#N/A	mg/kg	mg/kg																
3424-82-6	o,p-DDE	SOLID	#N/A	mg/kg	ug/kg																
35367-38-5	Diflufenzuron	SOLID	#N/A	mg/kg	mg/kg																
698836	Benazolin	SOLID	#N/A	mg/kg	mg/kg																
38260-54-7	Etrimephos	SOLID	#N/A	mg/kg	ug/kg																
40483-25-2	Diclofop	SOLID	#N/A	mg/kg	mg/kg																
40487-42-1	Pendimethalin	SOLID	#N/A	mg/kg	ug/kg																
43121-43-3	Triadimefon	SOLID	#N/A	mg/kg	ug/kg																
465-73-6	Isodrin	SOLID	#N/A	mg/kg	ug/kg																
470-90-6	Chlorfenvinphos	SOLID	#N/A	mg/kg	ug/kg																
50-29-3	p,p-DDT SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																
50-31-7	2,3,6-TBA	SOLID	#N/A	mg/kg	mg/kg																
5103-71-9	cis-Chlordane SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																
5103-74-2	trans-Chlordane SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																
51630-58-1	Fenvalerate SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																
52315-07-8	Cypermethrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																
52645-53-1	Permethrin SUBCON RPS MH Pyrethroids	SOLID	#N/A	mg/kg	mg/kg																
52756-22-6	Flamprop-isopropyl	SOLID	#N/A	mg/kg	mg/kg																
52918-63-5	Deltamethrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																
53-19-0	o,p-TDE (DDD)	SOLID	#N/A	mg/kg	ug/kg																
55335-06-3	Triclopyr	SOLID	#N/A	mg/kg	mg/kg																
55-38-9	Fenthion	SOLID	#N/A	mg/kg	ug/kg																
563-12-2	Ethion	SOLID	#N/A	mg/kg	ug/kg																
56-38-2	Parathion (Ethyl Parathion)	SOLID	#N/A	mg/kg	ug/kg																
58667-63-3	Fiamprop	SOLID	#N/A	mg/kg	mg/kg																

Appendix G

G2 RTM Level 1 - Soils

Hole Ref	AEC18-LF-BBH204	AEC18-LF-BBH207	AEC18-LF-BBH209	AEC18-LF-BBH210	AEC18-LF-BBH210	AEC18-LF-BBH210	AEC18-LF-BH201 (PFCP71)	AEC18-LF-BH201 (PFCP71)	AEC18-LF-BH202	AEC18-LF-BH202A	AEC18-LF-BH202A	AEC18-LF-BH202A	AEC18-LF-BH203	AEC18-LF-BH203	AEC18-LF-BH203	AEC18-LF-BH203	AEC18-LF-BH203	AEC18-LF-BH203	AEC18-LF-BH204	AEC18-LF-BH204	AEC18-LF-BH204		
Sample Top	0.50	0.30	0.40	0.70	2.70	4.00	0.90	5.60	0.50	0.40	5.00	8.30	0.50	11.10	2.50	5.30	8.30	0.30	11.00	5.00			
Lookup soil	CwF	MADE GROUND	CwF	MADE GROUND	MADE GROUND	MADE GROUND	MADE GROUND	MG-LF	MADE GROUND	MADE GROUND	MADE GROUND	MG-LF	MADE GROUND	HEAD	MADE GROUND	MG-LF	MG-LF	TS	MG-LF	MG-LF			
Sample Ref	2	1	2	2	5	7	2	4	2	1	5	6	2	9	5	6	7	1	7	5			
Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES		
103-33-3	Azobenzene	SOLID - INITIAL	0.38	mg/kg	ug/kg																<100	<200	
106-47-8	4-Chloroaniline	SOLID - INITIAL	0.01	mg/kg	ug/kg																	<100	<200
700-57-23	4-Chlorophenylphenylether	SOLID - INITIAL	#N/A	mg/kg	ug/kg																	<100	<200
88-74-4	2-Nitroaniline	SOLID - INITIAL	0.01	mg/kg	ug/kg																	<100	<200
99-09-2	3-Nitroaniline	SOLID - INITIAL	#N/A	mg/kg	ug/kg																	<100	<200
994-05-8	Tertiary Amyl Methyl Ether	SOLID - INITIAL	#N/A	mg/kg	ug/kg																	<10	<100
1336-36-6	PCB Total (WAC only)	SOLID	#N/A	mg/kg	mg/kg																		
P1330	BTEX (total) WAC	SOLID	#N/A	mg/kg	mg/kg																		

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G2 RTM Level 1 - Soils

Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	AEC18-LF-BH205A	AEC18-LF-BH205A	AEC18-LF-BH206	AEC18-LF-BH206	AEC18-LF-BH206	AEC18-LF-BH207A	AEC18-LF-BH207A	AEC18-LF-BH207A	AEC18-LF-BH207A	AEC18-LF-BH208	AEC18-LF-BH208	AEC18-LF-BH208	AEC18-LF-BH208	AEC18-LF-BH209 (PFCP73)	AEC18-LF-BH209 (PFCP73)	AEC18-LF-BH209 (PFCP73)	AEC18-LF-BH210	AEC18-LF-BH210	AEC18-LF-BH210		
						0.30	3.50	2.80	5.00	6.40	0.10	12.10	17.60	7.50	11.80	4.80	7.50	9.40	0.30	10.80	13.00	4.70	0.50	3.20	6.80	
Sample Ref	Lookup soil	Sample Ref	Sample Ref	Sample Ref	Sample Ref	1	3	4	7	8	1	7	9	4	6	3	4	5	1	5	6	3	1	5	7	
Sample Type	Lookup soil	Sample Ref	Sample Ref	Sample Ref	Sample Ref	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	
108-67-8	1,3,5-Trimethylbenzene	SOLID - INITIAL	0.15	mg/kg	mg/kg																					
108-86-1	Bromobenzene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
108-90-7	Chlorobenzene	SOLID - INITIAL	4.46	mg/kg	mg/kg																					
108-95-2	Phenol	SOLID - INITIAL	0.04	mg/kg	mg/kg	<0.01	<0.01	<0.01		0.0	<0.01	0.0	<0.01	0.0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.05	<0.01	<0.01	<0.01	
111-91-1	Bis(2-chloroethoxy)methane	SOLID - INITIAL	0.01	mg/kg	mg/kg																					
117-81-7	Bis(2-ethylhexyl)phthalate	SOLID - INITIAL	18472.17	mg/kg	mg/kg																					
117-84-0	Di-N-Octyl Phthalate	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
118-74-1	Hexachlorobenzene (HCB)	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
120-82-1	1,2,4-Trichlorobenzene	SOLID - INITIAL	1.81	mg/kg	mg/kg																					
120-83-2	2,4-Dichlorophenol	SOLID - INITIAL	0.28	mg/kg	mg/kg																					
121-14-2	2,4-Dinitrotoluene	SOLID - INITIAL	0.00	mg/kg	mg/kg																					
122-39-4	Diphenylamine	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
124-48-1	Dibromochloromethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
127-18-4	Tetrachloroethene	SOLID - INITIAL	1.46	mg/kg	mg/kg																					
131-11-3	Dimethylphthalate	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
132-64-9	Dibenzofuran	SOLID - INITIAL	0.49	mg/kg	mg/kg																					
135-98-8	Sec-Butylbenzene	SOLID - INITIAL	1.39	mg/kg	mg/kg																					
142-28-9	1,3-Dichloropropane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
156-59-2	cis-1,2-Dichloroethene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
156-60-5	trans-1,2-Dichloroethene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
1634-04-4	Methyl tert-butyl ether (MTBE)	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
39638-32-9	Bis(2-chloroisopropyl)ether	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
528-29-0	O-Dinitrobenzene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
534-52-1	2-Methyl-4,6-Dinitrophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
541-73-1	1,3-Dichlorobenzene	SOLID - INITIAL	145.60	mg/kg	mg/kg																					
56-23-5	Tetrachloromethane (Carbon Tetra Chloride)	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
563-58-6	1,1-Dichloropropene	SOLID - INITIAL	0.41	mg/kg	mg/kg																					
58-90-2	2,3,4,6-Tetrachlorophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
594-20-7	2,2-Dichloropropane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
59-50-7	4-Chloro-3-Methylphenol	SOLID - INITIAL	2.93	mg/kg	mg/kg																					
606-20-2	2,6-Dinitrotoluene	SOLID - INITIAL	1.48	mg/kg	mg/kg																					
62-53-3	Aniline	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
630-20-6	1,1,1,2-Tetrachloroethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
67-66-3	Chloroform	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
700-57-23	4-Chlorophenyl Phenyl Ether	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
71-55-6	1,1,1-Trichloroethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
74-95-3	Dibromomethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
74-97-5	Bromochloromethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
75-01-4	Chloroethene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
75-25-2	Tribromomethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
75-27-4	Bromodichloromethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
75-34-3	1,1-Dichloroethane	SOLID - INITIAL	0.01	mg/kg	mg/kg																					
75-35-4	1,1-Dichloroethene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
77-47-4	Hexachlorocyclopentadiene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
78-87-5	1,2-Dichloropropane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
79-00-5	1,1,2-Trichloroethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
79-01-6	Trichloroethene	SOLID - INITIAL	0.09	mg/kg	mg/kg																					
84-66-2	Diethylphthalate	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
84-74-2	Di-N-Butyl Phthalate	SOLID - INITIAL	0.52	mg/kg	mg/kg																					
85-68-7	Butylbenzylphthalate	SOLID - INITIAL	23.36	mg/kg	mg/kg																					
86-74-8	Carbazole	SOLID - INITIAL	0.01	mg/kg	mg/kg																					
87-61-6	1,2,3 Trichlorobenzene	SOLID - INITIAL	0.26	mg/kg	mg/kg																					
87-68-3	Hexachlorobutadiene (HCBd)	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
87-86-5	Pentachlorophenol (PCP)	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
88-06-2	2,4,6-Trichlorophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
88-74-4	2-Nitroaniline	SOLID - INITIAL	0.01	mg/kg	mg/kg																					
91-57-6	2-Methylnaphthalene	SOLID - INITIAL	0.84	mg/kg	mg/kg																					
91-58-7	2-Chloronaphthalene	SOLID - INITIAL	0.92	mg/kg	mg/kg																					
935-95-5	2,3,5,6-Tetrachlorophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
95-47-6	Xylene	SOLID - INITIAL	0.23	mg/kg	mg/kg																					
95-48-7	2-Methylphenol	SOLID - INITIAL	0.54	mg/kg	mg/kg																					
95-49-8	2-Chlorotoluene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
95-50-1	1,2-Dichlorobenzene	SOLID - INITIAL	40.42	mg/kg	mg/kg																					
95-57-8	2-Chlorophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
95-63-6	1,2,4-Trimethylbenzene	SOLID - INITIAL	0.25	mg/kg	mg/kg																					
95-95-4	2,4,5-Trichlorophenol	SOLID - INITIAL	60.93	mg/kg	mg/kg																					
96-12-8	1,2-Dibromo-3-Chloropropane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
96-18-4	1,2,3-Trichloropropane	SOLID - INITIAL	0.44	mg/kg	mg/kg																					

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Hole Ref	AEC18-LF-BH205A	AEC18-LF-BH205A	AEC18-LF-BH206	AEC18-LF-BH206	AEC18-LF-BH206	AEC18-LF-BH207A	AEC18-LF-BH207A	AEC18-LF-BH207A	AEC18-LF-BH207A	AEC18-LF-BH208	AEC18-LF-BH208	AEC18-LF-BH208	AEC18-LF-BH208	AEC18-LF-BH209 (PFCP73)	AEC18-LF-BH209 (PFCP73)	AEC18-LF-BH209 (PFCP73)	AEC18-LF-BH210	AEC18-LF-BH210	AEC18-LF-BH210	
Sample Top	0.30	3.50	2.80	5.00	6.40	0.10	12.10	17.60	7.50	11.80	4.80	7.50	9.40	0.30	10.80	13.00	4.70	0.50	3.20	6.80
Lookup soil	MADE GROUND	MG-LF	MG-LF	MG-LF	MG-LF	MADE GROUND	MG-LF	MG-LF	MG-LF	HEAD	MG-LF	MG-LF	MG-LF	MADE GROUND	MG-LF	MADE GROUND	MADE GROUND	MG-LF	MADE GROUND	MG-LF
Sample Ref	1	3	4	7	8	1	7	9	4	6	3	4	5	1	5	6	3	1	5	7
Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES

Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	AEC18-LF-BH205A	AEC18-LF-BH205A	AEC18-LF-BH206	AEC18-LF-BH206	AEC18-LF-BH206	AEC18-LF-BH207A	AEC18-LF-BH207A	AEC18-LF-BH207A	AEC18-LF-BH207A	AEC18-LF-BH208	AEC18-LF-BH208	AEC18-LF-BH208	AEC18-LF-BH208	AEC18-LF-BH209 (PFCP73)	AEC18-LF-BH209 (PFCP73)	AEC18-LF-BH209 (PFCP73)	AEC18-LF-BH210	AEC18-LF-BH210	AEC18-LF-BH210							
1610-18-0	Prometon SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																										
16118-49-3	Carbetamide	SOLID	#N/A	mg/kg	mg/kg																										
1689-83-4	Ioxynil	SOLID	#N/A	mg/kg	mg/kg								<0.01						<0.01												
1689-84-5	Bromoxynil	SOLID	#N/A	mg/kg	mg/kg								<0.01						<0.01												
1702-17-6	Clopyralid	SOLID	#N/A	mg/kg	mg/kg																										
1746-81-2	Monolinuron	SOLID	#N/A	mg/kg	mg/kg																										
18691-97-9	Methabenzthiazuron	SOLID	#N/A	mg/kg	mg/kg																										
1897-45-6	Chlorothalonil	SOLID	#N/A	mg/kg	ug/kg								<50						<50												
1912-24-9	Atrazine SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																										
1918-00-9	Dicamba	SOLID	#N/A	mg/kg	mg/kg								<0.01						<0.01												
6607	Picloram	SOLID	#N/A	mg/kg	mg/kg																										
1967-16-4	Chlorbufam	SOLID	#N/A	mg/kg	mg/kg																										
1982-47-4	Chloroxuron	SOLID	#N/A	mg/kg	mg/kg																										
19937-59-8	Metoxuron	SOLID	#N/A	mg/kg	mg/kg																										
2132-70-9	p,p-Methoxychlor	SOLID	#N/A	mg/kg	ug/kg																										
2274-67-1	Chlorpyrifos-methyl	SOLID	#N/A	mg/kg	ug/kg								<50						<50												
2303-17-5	Triallate	SOLID	#N/A	mg/kg	ug/kg								<50						<50												
2310-17-0	Phosalone	SOLID	#N/A	mg/kg	ug/kg								<50						<50												
23103-98-2	Pirimicarb	SOLID	#N/A	mg/kg	mg/kg																										
24017-47-8	Triazophos	SOLID	#N/A	mg/kg	ug/kg								<50						<50												
25057-89-0	Bentazone	SOLID	#N/A	mg/kg	mg/kg								<0.01						<0.01												
2642-71-9	Azinphos-ethyl	SOLID	#N/A	mg/kg	ug/kg								<50						<50												
2921-88-2	Chlorpyrifos	SOLID	#N/A	mg/kg	ug/kg								<50						<50												
29232-93-7	Pirimiphos Methyl	SOLID	#N/A	mg/kg	ug/kg								<50						<50												
297-78-9	Telodrin	SOLID	#N/A	mg/kg	ug/kg								<50						<50												
298-00-0	Methyl Parathion	SOLID	#N/A	mg/kg	ug/kg								<50						<50												
298-01-1	Mevinphos	SOLID	#N/A	mg/kg	ug/kg								<50						<50												
298-04-4	Disulfoton SUBCON OCP Alcontrol	SOLID	#N/A	mg/kg	ug/kg								<50						<50												
29973-13-5	Ethiofencarb	SOLID	#N/A	mg/kg	mg/kg																										
30667-99-3	o,p-Methoxychlor	SOLID	#N/A	mg/kg	ug/kg								<50						<50												
309-00-2	Aldrin SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg								<50						<50												
31218-83-4	Propetamphos	SOLID	#N/A	mg/kg	ug/kg								<50						<50												
314-40-9	Bromacil	SOLID	#N/A	mg/kg	mg/kg																										
319-84-6	alpha-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg								<50						<50												
319-85-7	beta-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg								<50						<50												
330-54-1	Diuron SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																										
330-55-2	Linuron	SOLID	#N/A	mg/kg	mg/kg																										
33213-65-9	Endosulphan II	SOLID	#N/A	mg/kg	ug/kg								<50						<50												
333-41-5	Diazinon	SOLID	#N/A	mg/kg	ug/kg								<50						<50												
34123-59-6	Isoproturon	SOLID	#N/A	mg/kg	mg/kg																										
34205-21-5	Dimefuron	SOLID	#N/A	mg/kg	mg/kg																										
3424-82-6	o,p-DDE	SOLID	#N/A	mg/kg	ug/kg								<50						<50												
35367-38-5	Diflufenzuron	SOLID	#N/A	mg/kg	mg/kg																										
698836	Benazolin	SOLID	#N/A	mg/kg	mg/kg																										
38260-54-7	Etrimpfos	SOLID	#N/A	mg/kg	ug/kg								<50						<50												
40483-25-2	Diclofop	SOLID	#N/A	mg/kg	mg/kg								<0.01						<0.01												
40487-42-1	Pendimethalin	SOLID	#N/A	mg/kg	ug/kg								<50						<50												
43121-43-3	Triadimefon	SOLID	#N/A	mg/kg	ug/kg								<50						<50												
465-73-6	Isodrin	SOLID	#N/A	mg/kg	ug/kg								<50						<50												
470-90-6	Chlorfenvinphos	SOLID	#N/A	mg/kg	ug/kg								<50						<50												
50-29-3	p,p-DDT SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg								<50						<50												
50-31-7	2,3,6-TBA	SOLID	#N/A	mg/kg	mg/kg																										
5103-71-9	cis-Chlordane SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg								<50						<50												
5103-74-2	trans-Chlordane SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg								<50						<50												
51630-58-1	Fenvalerate SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																										
52315-07-8	Cypermethrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																										
52645-53-1	Permethrin SUBCON RPS MH Pyrethroids	SOLID	#N/A	mg/kg	mg/kg																										
52756-22-6	Flamprop-isopropyl	SOLID	#N/A	mg/kg	mg/kg																										
52918-63-5	Deltamethrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																										
53-19-0	o,p-TDE (DDD)	SOLID	#N/A	mg/kg	ug/kg								<50						<50												
55335-06-3	Triclopyr	SOLID	#N/A	mg/kg	mg/kg								<0.01						<0.01												
55-38-9	Fenthion	SOLID	#N/A	mg/kg	ug/kg								<50						<50												
563-12-2	Ethion	SOLID	#N/A	mg/kg	ug/kg								<50						<50												
56-38-2	Parathion (Ethyl Parathion)	SOLID	#N/A	mg/kg	ug/kg								<50						<50												
58667-63-3	Fiamprop	SOLID	#N/A	mg/kg	mg/kg																										

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					Hole Ref	AEC18-LF-BH205A	AEC18-LF-BH205A	AEC18-LF-BH206	AEC18-LF-BH206	AEC18-LF-BH206	AEC18-LF-BH207A	AEC18-LF-BH207A	AEC18-LF-BH207A	AEC18-LF-BH207A	AEC18-LF-BH208	AEC18-LF-BH208	AEC18-LF-BH208	AEC18-LF-BH208	AEC18-LF-BH209 (PFCP73)	AEC18-LF-BH209 (PFCP73)	AEC18-LF-BH209 (PFCP73)	AEC18-LF-BH209 (PFCP73)	AEC18-LF-BH210	AEC18-LF-BH210	AEC18-LF-BH210
					Sample Top	0.30	3.50	2.80	5.00	6.40	0.10	12.10	17.60	7.50	11.80	4.80	7.50	9.40	0.30	10.80	13.00	4.70	0.50	3.20	6.80
					Lookup soil	MADE GROUND	MG-LF	MG-LF	MG-LF	MG-LF	MADE GROUND	MG-LF	MG-LF	MG-LF	HEAD	MG-LF	MG-LF	MG-LF	MADE GROUND	MG-LF	MADE GROUND	MADE GROUND	MG-LF	MADE GROUND	MG-LF
					Sample Ref	1	3	4	7	8	1	7	9	4	6	3	4	5	1	5	6	3	1	5	7
Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
103-33-3	Azobenzene	SOLID - INITIAL	0.38	mg/kg	ug/kg		<500	<100	<500	<100				<100					<100						<100
106-47-8	4-Chloroaniline	SOLID - INITIAL	0.01	mg/kg	ug/kg		<500	<100	<500	<100				<100					<100						<100
700-57-23	4-Chlorophenylphenylether	SOLID - INITIAL	#N/A	mg/kg	ug/kg		<500	<100	<500	<100				<100					<100						<100
88-74-4	2-Nitroaniline	SOLID - INITIAL	0.01	mg/kg	ug/kg		<500	<100	<500	<100				<100					<100						<100
99-09-2	3-Nitroaniline	SOLID - INITIAL	#N/A	mg/kg	ug/kg		<500	<100	<500	<100				<100					<100						<100
994-05-8	Tertiary Amyl Methyl Ether	SOLID - INITIAL	#N/A	mg/kg	ug/kg		<100	<10	<200	<200				<10					<10						<10
1336-36-6	PCB Total (WAC only)	SOLID	#N/A	mg/kg	mg/kg																				
P1330	BTEX (total) WAC	SOLID	#N/A	mg/kg	mg/kg																				

Appendix G

G2 RTM Level 1 - Soils

Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	Hole Ref																			
						AEC18-LF-BH210	AEC18-LF-BH212	AEC18-LF-BH212	AEC18-LF-BH212	AEC18-LF-BH212	AEC18-LF-BH212	AEC18-LF-BH212A	AEC18-LF-BH213	AEC18-LF-BH213	AEC18-LF-BH213	AEC18-LF-BH214	AEC18-LF-BH214	AEC18-LF-BH214	AEC18-LF-BH216	AEC18-LF-BH216	AEC18-LF-BH216	AEC18-LF-BH217	AEC18-LF-BH217	AEC18-LF-BH217	
						8.80	1.20	10.70	17.00	6.40	9.40	20.00	13.70	19.00	4.70	0.40	14.20	8.20	1.60	4.40	5.90	1.80	10.90	13.20	5.10
						MG-LF	ZCL	MG-LF	MADE GROUND	MG-LF	MG-LF	DVY	MG-LF	HEAD	MG-LF	MADE GROUND	MG-LF	MG-LF	MADE GROUND	MG-LF	MG-LF	MADE GROUND	MG-LF	MADE GROUND	ZCL
						9	2	7	10	5	6	1	7	9	4	1	7	5	3	6	7	3	8	10	
						ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
100-41-4	Ethylbenzene	SOLID - INITIAL	0.53	mg/kg	mg/kg																				
108-88-3	Toluene	SOLID - INITIAL	0.88	mg/kg	mg/kg																				
120-12-7	Anthracene	SOLID - INITIAL	0.16	mg/kg	mg/kg																				
129-00-0	Pyrene	SOLID - INITIAL	1.88	mg/kg	mg/kg																				
1330-20-7	Xylene	SOLID - INITIAL	0.23	mg/kg	mg/kg																				
191-24-2	Benzo(g,h,i)perylene	SOLID - INITIAL	2.42	mg/kg	mg/kg																				
193-39-5	Indeno(1,2,3-cd)pyrene	SOLID - INITIAL	0.51	mg/kg	mg/kg																				
205-99-2	Benzo(b)fluoranthene	SOLID - INITIAL	0.61	mg/kg	mg/kg																				
206-44-0	Fluoranthene	SOLID - INITIAL	0.01	mg/kg	mg/kg																				
207-08-9	Benzo(k)fluoranthene	SOLID - INITIAL	0.86	mg/kg	mg/kg																				
208-96-8	Acenaphthylene	SOLID - INITIAL	1.01	mg/kg	mg/kg																				
218-01-9	Chrysene	SOLID - INITIAL	6.38	mg/kg	mg/kg																				
50-32-8	Benzo(a)pyrene	SOLID - INITIAL	0.07	mg/kg	mg/kg																				
53-70-3	Dibenzo(a,h)anthracene	SOLID - INITIAL	10.80	mg/kg	mg/kg																				
56-55-3	Benzo(a)anthracene	SOLID - INITIAL	4.50	mg/kg	mg/kg																				
57-12-5	Cyanide	SOLID - INITIAL	0.26	mg/kg	mg/kg	<1	1.7		<1	3.2	<1	<1	2.8	1.0	<1	<1	12.4	18.8	<1	<1	1.7	<1	<0.5	<1	
71-43-2	Benzene	SOLID - INITIAL	0.0043	mg/kg	mg/kg																				
7439-92-1	Lead	SOLID - INITIAL	10.00	mg/kg	mg/kg	289.0	35.5		54.4	107.0	49.5	169.0	186.0	24.8	161.0	192.0	113.0	104.0	69.2	347.0	544.0	242.0		0.0	393.0
7439-97-6	Mercury	SOLID - INITIAL	0.50	mg/kg	mg/kg	<0.14	<0.14		<0.14	<0.14	0.2	<0.14	<0.14	<0.14	<0.14	<0.14	1.1	0.2	<0.14	<1.4	<1.4	<0.14	<0.0001		1.6
7440-02-0	Nickel	SOLID - INITIAL	10.01	mg/kg	mg/kg	75.2	18.5		11.4	13.3	22.9	21.7	48.7	57.0	12.9	25.3	14.3	29.8	22.1	446.0	283.0	23.3		0.1	30.7
7440-36-0	Antimony	SOLID - INITIAL	1.26	mg/kg	mg/kg	16.1	1.1		<0.6	2.2	2.7	<0.6	3.4	<0.6	<0.6	5.6	3.3	1.7	4.0	14.4	10.6	3.1		0.2	3.2
7440-38-2	Arsenic	SOLID - INITIAL	5.00	mg/kg	mg/kg	52.0	3.4		6.4	9.8	7.1	16.1	26.1	15.7	7.4	14.8	6.5	11.5	9.5	10.7	43.5	11.9		0.0	21.8
7440-41-7	Beryllium	SOLID - INITIAL	5.04	mg/kg	mg/kg	4.8	0.3		0.7	0.6	0.1	1.3	2.7	3.2	0.5	0.8	0.5	0.8	0.7	0.2	2.3	0.9		<0.001	1.4
7440-42-8	Boron	SOLID - INITIAL	8.69	mg/kg	mg/kg	20.2	<1		3.0	4.5	12.1	20.0	8.0	3.3	4.1	1.0	10.2	7.5	1.4	2.4	8.4	2.9		9.0	3.9
7440-43-9	Cadmium	SOLID - INITIAL	0.50	mg/kg	mg/kg	1.1	0.5		0.1	0.5	1.1	<0.02	1.1	0.1	2.9	0.5	0.8	1.2	0.1	1.0	2.5	0.5		0.0	1.0
7440-47-3	Chromium	SOLID - INITIAL	315.49	mg/kg	mg/kg	4.9	20.8		10.2	16.1	43.5	29.0	71.5	35.6	5.9	24.0	30.5	22.7	19.5	93.1	71.6	13.1		0.1	16.5
7440-50-8	Copper	SOLID - INITIAL	1002.92	mg/kg	mg/kg	175.0	48.1		17.1	48.9	238.0	14.5	335.0	35.5	24.9	62.6	170.0	79.8	26.4	39.6	165.0	73.8		0.0	121.0
7440-62-2	Vanadium	SOLID - INITIAL	1.01	mg/kg	mg/kg	39.5	7.7		16.7	12.7	8.8	62.7	54.4	71.9	18.0	36.3	10.8	28.5	26.0	16.0	43.0	29.9		<0.01	38.9
7440-66-6	Zinc	SOLID - INITIAL	2507.30	mg/kg	mg/kg	650.0	167.0		60.0	126.0	1190.0	71.1	332.0	107.0	107.0	195.0	201.0	364.0	121.0	138.0	401.0	234.0		0.0	348.0
7782-49-2	Selenium	SOLID - INITIAL	0.50	mg/kg	mg/kg	1.3	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<10	<1		<0.01	<1
83-32-9	Acenaphthene	SOLID - INITIAL	965.39	mg/kg	mg/kg																				
85-01-8	Phenanthrene	SOLID - INITIAL	3.35	mg/kg	mg/kg																				
86-73-7	Fluorene	SOLID - INITIAL	1.76	mg/kg	mg/kg																				
91-20-3	Napthalene	SOLID - INITIAL	0.08	mg/kg	mg/kg																				
P1186	Phenol	SOLID - INITIAL	0.04	mg/kg	mg/kg	<0.035	<0.035		<0.035	<0.035		<0.035	0.1	<0.035	3.5	<0.035	0.2	<0.035	<0.035	0.3	<0.035	<0.035		<0.035	<0.035
P1310	Pah,Total	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
P1334	pH	SOLID - INITIAL	#N/A	mg/kg	pH Units	7.4	7.9		8.9	7.9	7.2	8.9	8.7	8.0	8.0	8.7	8.0	7.5	8.4	7.8	7.5	8.2		8.1	8.0
P1355	TPH Aromatic >C7-C8	SOLID - INITIAL	10.42	mg/kg	mg/kg																				
P1356	TPH Aromatic >C8-C10	SOLID - INITIAL	219.16	mg/kg	mg/kg																				
P1357	TPH Aromatic >C10-C12	SOLID - INITIAL	16.54	mg/kg	mg/kg																				
P1358	TPH Aromatic >C12-C16	SOLID - INITIAL	32.96	mg/kg	mg/kg																				
P1359	TPH Aromatic >C16-C21	SOLID - INITIAL	82.76	mg/kg	mg/kg																				
P1360	TPH Aromatic >C21-C35	SOLID - INITIAL	657.18	mg/kg	mg/kg																				
P1407	TPH Aliphatic >C5-6	SOLID - INITIAL	654.68	mg/kg	mg/kg																				
P1408	TPH Aliphatic >C6-8	SOLID - INITIAL	2946.18	mg/kg	mg/kg																				
P1409	TPH Aliphatic >C8-10	SOLID - INITIAL	558.25	mg/kg	mg/kg																				
P1410	TPH Aliphatic >C10-12	SOLID - INITIAL	5510.38	mg/kg	mg/kg																				
P1411	TPH Aliphatic >C12-16	SOLID - INITIAL	87214.59	mg/kg	mg/kg																				
P1412	TPH Aliphatic >C16-21	SOLID - INITIAL	6927070.30	mg/kg	mg/kg																				
P1413	TPH Aliphatic >C21-35	SOLID - INITIAL	6927070.30	mg/kg	mg/kg																				
P1441	TPH Aromatic >C6-C7	SOLID - INITIAL	0.05	mg/kg	mg/kg																				
100-01-6	4-Nitroaniline	SOLID - INITIAL	0.00	mg/kg	mg/kg																				
100-02-7	4-Nitrophenol	SOLID - INITIAL	0.04	mg/kg	mg/kg																				
100-25-4	P-Dinitrobenzene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
100-42-5	Styrene	SOLID - INITIAL	1.04	mg/kg	mg/kg																				
100-51-6	Benzyl Alcohol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
10061-01-5	cis-1,3-Dichloropropene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
10061-02-6	trans-1,3-Dichlor																								

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Hole Ref	AEC18-LF-BH210	AEC18-LF-BH212	AEC18-LF-BH212	AEC18-LF-BH212	AEC18-LF-BH212	AEC18-LF-BH212	AEC18-LF-BH212A	AEC18-LF-BH213	AEC18-LF-BH213	AEC18-LF-BH213	AEC18-LF-BH214	AEC18-LF-BH214	AEC18-LF-BH214	AEC18-LF-BH216	AEC18-LF-BH216	AEC18-LF-BH216	AEC18-LF-BH217	AEC18-LF-BH217	AEC18-LF-BH217	AEC18-LF-BH217	
Sample Top	8.80	1.20	10.70	17.00	6.40	9.40	20.00	13.70	19.00	4.70	0.40	14.20	8.20	1.60	4.40	5.90	1.80	10.90	13.20	5.10	
Lookup soil	MG-LF	ZCL	MG-LF	MADE GROUND	MG-LF	MG-LF	DVY	MG-LF	HEAD	MG-LF	MADE GROUND	MG-LF	MG-LF	MADE GROUND	MG-LF	MG-LF	MADE GROUND	MG-LF	MADE GROUND	ZCL	
Sample Ref	9	2	7	10	5	6	1	7	9	4	1	7	5	3	6	7	3	8	10		
Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
1610-18-0	Prometon SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																
16118-49-3	Carbetamide	SOLID	#N/A	mg/kg	mg/kg																
1689-83-4	loxynil	SOLID	#N/A	mg/kg	mg/kg	<0.01				<0.01						<0.01				<0.01	
1689-84-5	Bromoxynil	SOLID	#N/A	mg/kg	mg/kg	<0.01				<0.01						<0.01				<0.01	
1702-17-6	Clopyralid	SOLID	#N/A	mg/kg	mg/kg																
1746-81-2	Monolinuron	SOLID	#N/A	mg/kg	mg/kg																
18691-97-9	Methabenzthiazuron	SOLID	#N/A	mg/kg	mg/kg																
1897-45-6	Chlorothalonil	SOLID	#N/A	mg/kg	ug/kg	<1000										<1000				<500	
1912-24-9	Atrazine SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																
1918-00-9	Dicamba	SOLID	#N/A	mg/kg	mg/kg	<0.01				<0.01						<0.01				<0.01	
6607	Picloram	SOLID	#N/A	mg/kg	mg/kg																
1967-16-4	Chlorbufam	SOLID	#N/A	mg/kg	mg/kg																
1982-47-4	Chloroxuron	SOLID	#N/A	mg/kg	mg/kg																
19937-59-8	Metoxuron	SOLID	#N/A	mg/kg	mg/kg																
2132-70-9	p,p-Methoxychlor	SOLID	#N/A	mg/kg	ug/kg																
2274-67-1	Chlorpyrifos-methyl	SOLID	#N/A	mg/kg	ug/kg	<1000				<50						<500				<500	
2303-17-5	Triallate	SOLID	#N/A	mg/kg	ug/kg	<1000				<50						<500				<500	
2310-17-0	Phosalone	SOLID	#N/A	mg/kg	ug/kg	<1000				<50						<500				<500	
23103-98-2	Pirimicarb	SOLID	#N/A	mg/kg	mg/kg																
24017-47-8	Triazophos	SOLID	#N/A	mg/kg	ug/kg	<1000				<50						<500				<500	
25057-89-0	Bentazone	SOLID	#N/A	mg/kg	mg/kg	<0.01				<0.01						<0.01				<0.01	
2642-71-9	Azinphos-ethyl	SOLID	#N/A	mg/kg	ug/kg	<1000				<50						<500				<500	
2921-88-2	Chlorpyrifos	SOLID	#N/A	mg/kg	ug/kg	<1000				<50						<500				<500	
29232-93-7	Pirimiphos Methyl	SOLID	#N/A	mg/kg	ug/kg	<1000				<50						<500				<500	
297-78-9	Telodrin	SOLID	#N/A	mg/kg	ug/kg	<1000				<50						<500				<500	
298-00-0	Methyl Parathion	SOLID	#N/A	mg/kg	ug/kg	<1000				<50						<500				<500	
298-01-1	Mevinphos	SOLID	#N/A	mg/kg	ug/kg	<1000				<50						<500				<500	
298-04-4	Disulfoton SUBCON OCP Alcontrol	SOLID	#N/A	mg/kg	ug/kg	<1000				<50						<500				<500	
29973-13-5	Ethiofencarb	SOLID	#N/A	mg/kg	mg/kg																
30667-99-3	o,p-Methoxychlor	SOLID	#N/A	mg/kg	ug/kg	<1000				<50						<500				<500	
309-00-2	Aldrin SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg	<1000				<50						<500				<500	
31218-83-4	Propetamphos	SOLID	#N/A	mg/kg	ug/kg	<1000				<50						<500				<500	
314-40-9	Bromacil	SOLID	#N/A	mg/kg	mg/kg																
319-84-6	alpha-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg	<1000				<50						<500				<500	
	beta-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg	<1000				<50						<500				<500	
319-85-7		SOLID	#N/A	mg/kg	ug/kg																
330-54-1	Diuron SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																
330-55-2	Linuron	SOLID	#N/A	mg/kg	mg/kg																
33213-65-9	Endosulphan II	SOLID	#N/A	mg/kg	ug/kg	<1000				<50						<500				<500	
333-41-5	Diazinon	SOLID	#N/A	mg/kg	ug/kg	<1000				<50						<500				<500	
34123-59-6	Isoproturon	SOLID	#N/A	mg/kg	mg/kg																
34205-21-5	Dimefuron	SOLID	#N/A	mg/kg	mg/kg																
3424-82-6	o,p-DDE	SOLID	#N/A	mg/kg	ug/kg	<1000				<50						<500				<500	
35367-38-5	Diflubenzuron	SOLID	#N/A	mg/kg	mg/kg																
698836	Benazolin	SOLID	#N/A	mg/kg	mg/kg																
38260-54-7	Etrimephos	SOLID	#N/A	mg/kg	ug/kg	<1000				<50						<500				<500	
40483-25-2	Diclofop	SOLID	#N/A	mg/kg	mg/kg	<0.01				<0.01						<0.01				<0.01	
40487-42-1	Pendimethalin	SOLID	#N/A	mg/kg	ug/kg	<1000				<50						<500				<500	
43121-43-3	Triadimefon	SOLID	#N/A	mg/kg	ug/kg	<1000				<50						<500				<500	
465-73-6	Isodrin	SOLID	#N/A	mg/kg	ug/kg	<1000				<50						<500				<500	
470-90-6	Chlorfenvinphos	SOLID	#N/A	mg/kg	ug/kg	<1000				<50						<500				<500	
50-29-3	p,p-DDT SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg	<1000				<50						<500				<500	
50-31-7	2,3,6-TBA	SOLID	#N/A	mg/kg	mg/kg																
5103-71-9	cis-Chlordane SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg	<1000				<50						<500				<500	
5103-74-2	trans-Chlordane SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg	<1000				<50						<500				<500	
51630-58-1	Fenvalerate SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																
52315-07-8	Cypermethrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																
52645-53-1	Permethrin SUBCON RPS MH Pyrethroids	SOLID	#N/A	mg/kg	mg/kg																
52756-22-6	Flamprop-isopropyl	SOLID	#N/A	mg/kg	mg/kg																
52918-63-5	Deltamethrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																
53-19-0	o,p-TDE (DDD)	SOLID	#N/A	mg/kg	ug/kg	<1000				<50						<500				<500	
55335-06-3	Triclopyr	SOLID	#N/A	mg/kg	mg/kg	<0.01				<0.01						<0.01				<0.01	
55-38-9	Fenthion	SOLID	#N/A	mg/kg	ug/kg	<1000				<50						<500				<500	
563-12-2	Ethion	SOLID	#N/A	mg/kg	ug/kg	<1000				<50						<500				<500	
56-38-2	Parathion (Ethyl Parathion)	SOLID	#N/A	mg/kg	ug/kg	<1000				<50						<500				<500	
58667-63-3	Fiamprop	SOLID	#N/A	mg/kg	mg/kg																

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Hole Ref	AEC18-LF-BH210	AEC18-LF-BH212	AEC18-LF-BH212	AEC18-LF-BH212	AEC18-LF-BH212	AEC18-LF-BH212	AEC18-LF-BH212A	AEC18-LF-BH213	AEC18-LF-BH213	AEC18-LF-BH213	AEC18-LF-BH214	AEC18-LF-BH214	AEC18-LF-BH214	AEC18-LF-BH216	AEC18-LF-BH216	AEC18-LF-BH216	AEC18-LF-BH217	AEC18-LF-BH217	AEC18-LF-BH217	AEC18-LF-BH217
Sample Top	8.80	1.20	10.70	17.00	6.40	9.40	20.00	13.70	19.00	4.70	0.40	14.20	8.20	1.60	4.40	5.90	1.80	10.90	13.20	5.10
Lookup soil	MG-LF	ZCL	MG-LF	MADE GROUND	MG-LF	MG-LF	DVY	MG-LF	HEAD	MG-LF	MADE GROUND	MG-LF	MG-LF	MADE GROUND	MG-LF	MG-LF	MADE GROUND	MG-LF	MADE GROUND	ZCL
Sample Ref	9	2	7	10	5	6	1	7	9	4	1	7	5	3	6	7	3	8	10	

Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	
31508-00-6	PCB-118 2,3',4,4',5 - Pentachlorobiphenyl	SOLID - INITIAL	694.02	mg/kg	ng/g																	250.0
32598-13-3	PCB 77	SOLID - INITIAL	6185.41	mg/kg	ng/g																	70.0
32598-14-4	PCB 105	SOLID - INITIAL	8940.63	mg/kg	ng/g																	120.0
3268-87-9	Octachlorodibenzo-p-dioxin	SOLID - INITIAL	91923.81	mg/kg	ng/g																	0.2
32774-16-6	PCB 169	SOLID - INITIAL	37270.75	mg/kg	ng/g																	0.7
3380-34-5	Triclosan	SOLID - INITIAL	0.33	mg/kg	mg/kg	<0.01																<0.01
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-P-Dioxin	SOLID - INITIAL	91923.81	mg/kg	ng/g																	0.0
38380-08-4	PCB-156 2,3,3,4,4,5 - Hexachlorobiphenyl	SOLID - INITIAL	3172.26	mg/kg	ng/g																	10.0
39001-02-0	Octachlorodibenzofuran	SOLID - INITIAL	46180.43	mg/kg	ng/g																	0.0
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-P-Dioxin	SOLID - INITIAL	36595.53	mg/kg	ng/g																	<0.0017
39635-31-9	PCB 189	SOLID - INITIAL	270002.64	mg/kg	ng/g																	1.1
40321-76-4	1,2,3,7,8-Pentachlorodibenzo-P-Dioxin	SOLID - INITIAL	#N/A	mg/kg	ng/g																	<0.0014
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	SOLID - INITIAL	393.06	mg/kg	ng/g																	0.0
52645-53-1	Permethrin	SOLID - INITIAL	#N/A	mg/kg	ug/kg	<1000																<500
52663-72-6	PCB 167	SOLID - INITIAL	45853.03	mg/kg	ng/g																	13.0
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	SOLID - INITIAL	9648.46	mg/kg	ng/g																	<0.0027
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	SOLID - INITIAL	964.85	mg/kg	ng/g																	0.0
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	SOLID - INITIAL	715.25	mg/kg	ng/g																	0.0
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	SOLID - INITIAL	715.25	mg/kg	ng/g																	0.0
57465-28-8	PCB 126	SOLID - INITIAL	8940.63	mg/kg	ng/g																	0.4
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-P-Dioxin	SOLID - INITIAL	91923.81	mg/kg	ng/g																	<0.0017
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofura	SOLID - INITIAL	715.25	mg/kg	ng/g																	0.0
62476-59-9	Acifluorfen	SOLID - INITIAL	#N/A	mg/kg	mg/kg	<0.01																<0.01
65510-44-3	PCB 123	SOLID - INITIAL	8940.63	mg/kg	ng/g																	7.2
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	SOLID - INITIAL	715.25	mg/kg	ng/g																	0.0
69782-90-7	PCB 157	SOLID - INITIAL	45853.03	mg/kg	ng/g																	2.1
70362-50-4	PCB 81	SOLID - INITIAL	8940.63	mg/kg	ng/g																	6.1
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	SOLID - INITIAL	715.25	mg/kg	ng/g																	0.0
7085-19-0	mecoprop	SOLID - INITIAL	#N/A	mg/kg	mg/kg	<0.01																<0.01
72-43-5	Methoxychlor	SOLID - INITIAL	#N/A	mg/kg	ug/kg	<1000																<500
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	SOLID - INITIAL	#N/A	mg/kg	ng/g																	<0.0013
74472-37-0	PCB 114	SOLID - INITIAL	8940.63	mg/kg	ng/g																	11.0
88-85-7	Dinoseb	SOLID - INITIAL	#N/A	mg/kg	mg/kg	<0.01																<0.01
892-20-6	Triphenyltin	SOLID - INITIAL	#N/A	mg/kg	mg/kg	<0.05																<0.05
P1330	BTEX	SOLID - INITIAL	0.00	mg/kg	ug/kg	<8000																63.9
P1354	TPH Aromatic >C6-C7	SOLID - INITIAL	0.05	mg/kg	ug/kg	<10																<10
P1355	TPH Aromatics > C7-C8	SOLID - INITIAL	#N/A	mg/kg	ug/kg	<10																<10
P1356	Aromatics >C8-10	SOLID - INITIAL	#N/A	mg/kg	ug/kg	18.2																3280.0
P1357	Aromatics >C10-12	SOLID - INITIAL	#N/A	mg/kg	ug/kg	16.9																8130.0
P1358	Aromatics >C12-16	SOLID - INITIAL	#N/A	mg/kg	ug/kg	4530.0																11200.0
P1359	Aromatics >C16-21	SOLID - INITIAL	#N/A	mg/kg	ug/kg	25600.0																85500.0
P1360	Aromatics >C21-35	SOLID - INITIAL	#N/A	mg/kg	ug/kg	123000.0																310000.0
P1362	Aromatics >C35-44	SOLID - INITIAL	#N/A	mg/kg	ug/kg	29900.0																81100.0
P1407	Aliphatics >C5-6	SOLID - INITIAL	#N/A	mg/kg	ug/kg	<10																27.7
P1408	Aliphatics >C6-8	SOLID - INITIAL	#N/A	mg/kg	ug/kg	39.9																106.0
P1409	Aliphatics >C8-10	SOLID - INITIAL	#N/A	mg/kg	ug/kg	26.6																492.0
P1410	Aliphatics >C10-12	SOLID - INITIAL	#N/A	mg/kg	ug/kg	25.4																12200.0
P1411	Aliphatics >C12-16	SOLID - INITIAL	#N/A	mg/kg	ug/kg	3780.0																15000.0
P1412	Aliphatics >C16-21	SOLID - INITIAL	#N/A	mg/kg	ug/kg	29700.0																103000.0
P1413	Aliphatics >C21-35	SOLID - INITIAL	#N/A	mg/kg	ug/kg	240000.0																525000.0
P1415	Aliphatics >C35-44	SOLID - INITIAL	#N/A	mg/kg	ug/kg	65000.0																126000.0
15541-45-4	Bromate	SOLID - INITIAL	#N/A	mg/kg	mg/kg																	
16065-83-1	Trivalent Chromium	SOLID - INITIAL	#N/A	mg/kg	mg/kg																	<0.3
16887-00-6	Chloride	SOLID - INITIAL	268.18	mg/kg	mg/kg																	85.0
16984-48-8	Fluoride	SOLID - INITIAL	0.41	mg/kg	mg/kg																	<5
18496-25-8	Sulphide	SOLID - INITIAL	#VALUE!	mg/kg	mg/kg																	<0.1
24959-67-9	Bromide	SOLID - INITIAL	#VALUE!	mg/kg	mg/kg																	<0.6
7439-89-6	Iron	SOLID - INITIAL	44.05	mg/kg	mg/kg																	<0.19
7439-95-4	Magnesium	SOLID - INITIAL	0.00	mg/kg	mg/kg																	49.1
7439-98-7	Molybdenum	SOLID - INITIAL	0.10	mg/kg	mg/kg																	1.1
2023695	Potassium	SOLID - INITIAL	0.00	mg/kg	mg/kg																	108.0
7440-23-5	Sodium	SOLID - INITIAL	263.64	mg/kg	mg/kg																	138.0
7440-70-2	Calcium	SOLID - INITIAL	0.00	mg/kg	mg/kg																	171.0
P1238	Ammoniacal Nitrogen as N	SOLID - INITIAL	0.11	mg/kg	mg/kg																	204.0
P1286	Manganese	SOLID - INITIAL	2.51	mg/kg	mg/kg																	0.3
100-01-6	4-Nitroaniline	SOLID - INITIAL	0.00	mg/kg	ug/kg	<100																<100
101-55-3	4-Bromophenyl Phenyl Ether	SOLID - INITIAL	#N																			

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					Hole Ref	AEC18-LF-BH210	AEC18-LF-BH212	AEC18-LF-BH212	AEC18-LF-BH212	AEC18-LF-BH212	AEC18-LF-BH212	AEC18-LF-BH212A	AEC18-LF-BH213	AEC18-LF-BH213	AEC18-LF-BH213	AEC18-LF-BH214	AEC18-LF-BH214	AEC18-LF-BH214	AEC18-LF-BH216	AEC18-LF-BH216	AEC18-LF-BH216	AEC18-LF-BH217	AEC18-LF-BH217	AEC18-LF-BH217	AEC18-LF-BH217
Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
103-33-3	Azobenzene	SOLID - INITIAL	0.38	mg/kg	ug/kg	<100		<100		<100	<100		<100		<200		<100	<100		<100	<100		<100	<100	
106-47-8	4-Chloroaniline	SOLID - INITIAL	0.01	mg/kg	ug/kg	<100		<100		<100	<100		<100		<200		<100	<100		<100	<100		<100	<100	
700-57-23	4-Chlorophenylphenylether	SOLID - INITIAL	#N/A	mg/kg	ug/kg	<100		<100		<100	<100		<100		<200		<100	<100		<100	<100		<100	<100	
88-74-4	2-Nitroaniline	SOLID - INITIAL	0.01	mg/kg	ug/kg	<100		<100		<100	<100		<100		<200		<100	<100		<100	<100		<100	<100	
99-09-2	3-Nitroaniline	SOLID - INITIAL	#N/A	mg/kg	ug/kg	<100		<100		<100	<100		<100		<200		<100	<100		<100	<100		<100	<100	
994-05-8	Tertiary Amyl Methyl Ether	SOLID - INITIAL	#N/A	mg/kg	ug/kg	<2000		<100		<10	<200		<100		<10		<100	<100		<200	<200		<200	<10	
1336-36-6	PCB Total (WAC only)	SOLID	#N/A	mg/kg	mg/kg																				
P1330	BTEX (total) WAC	SOLID	#N/A	mg/kg	mg/kg																				

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Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	AEC18-LF-BH217	AEC18-LF-BH218	AEC18-LF-BH218	AEC18-LF-BH218	AEC18-LF-BH219	AEC18-LF-BH219	AEC18-LF-BH219	AEC18-LF-BH220	AEC18-LF-BH220	AEC18-LF-BH220	AEC18-LF-BH221	AEC18-LF-BH221	AEC18-LF-BH221	AEC18-LF-BH222	AEC18-LF-BH222	AEC18-LF-BH222	AEC18-LF-BH223	AEC18-LF-BH223	AEC18-LF-BH223									
						7.00	1.00	5.20	9.50	10.50	16.00	4.50	0.10	11.10	5.60	0.30	3.80	6.90	0.16	3.55	4.10	7.40	0.70	1.70	10.10	ZCL	MADE GROUND	MG-LF	MG-LF	MADE GROUND	MADE GROUND	MADE GROUND	MADE GROUND
Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	1	3	5	7	9	4	1	8	4	1	4	7	1	6	7	9	2	3	7									
98-06-6	Tert-Butylbenzene	SOLID - INITIAL	0.75	mg/kg	mg/kg																												
98-82-8	Isopropylbenzene	SOLID - INITIAL	0.27	mg/kg	mg/kg																												
99-09-2	3-Nitroaniline	SOLID - INITIAL	#N/A	mg/kg	mg/kg																												
99-65-0	M-Dinitrobenzene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																												
99-87-6	4-Isopropyltoluene	SOLID - INITIAL	54.06	mg/kg	mg/kg																												
P1374	xylene	SOLID - INITIAL	0.23	mg/kg	mg/kg																												
18540-29-9	chromium hexavalent	SOLID - INITIAL	0.02	mg/kg	mg/kg					<1.2	<0.6												<0.6										
P1095	Cyanide Free	SOLID - INITIAL	#N/A	mg/kg	mg/kg																												
P1239	Complex Cyanide	SOLID - INITIAL	0.26	mg/kg	mg/kg																												
31508-00-6	PCB-118 2,3,4,4,5 - Pentachlorobiphenyl	SOLID - INITIAL	#N/A	mg/kg	mg/kg																												
32598-13-3	PCB 77	SOLID - INITIAL	6185.41	mg/kg	mg/kg																												
32598-14-4	PCB 105	SOLID - INITIAL	8940.63	mg/kg	mg/kg																												
32774-16-6	PCB 169	SOLID - INITIAL	37270.75	mg/kg	mg/kg																												
38380-08-4	PCB-156 2,3,3,4,4,5 - Hexachlorobiphenyl	SOLID - INITIAL	3172.26	mg/kg	mg/kg																												
39635-31-9	PCB 189	SOLID - INITIAL	270002.64	mg/kg	mg/kg																												
52663-72-6	PCB 167	SOLID - INITIAL	45853.03	mg/kg	mg/kg																												
57465-28-8	PCB 126	SOLID - INITIAL	8940.63	mg/kg	mg/kg																												
65510-44-3	PCB 123	SOLID - INITIAL	8940.63	mg/kg	mg/kg																												
69782-90-7	PCB 157	SOLID - INITIAL	45853.03	mg/kg	mg/kg																												
70362-50-4	PCB 81	SOLID - INITIAL	8940.63	mg/kg	mg/kg																												
74472-37-0	PCB 114	SOLID - INITIAL	8940.63	mg/kg	mg/kg																												
100-02-7	4-Nitrophenol	SOLID	0.04	mg/kg	ug/kg				<100											<100	<100	<100											
100-41-4	Ethylbenzene	SOLID	0.53	mg/kg	ug/kg	<4		<80	<80	<80	47.0		<4	<4		<4	<40	<4	<80	<80	<80	18.9	10.9	4.7									
100-42-5	Styrene	SOLID	1.04	mg/kg	ug/kg				<200											<200	<200	<10											
10061-01-5	cis 1,3-Dichloropropene	SOLID	#N/A	mg/kg	ug/kg				<200											<200	<200	<10											
10061-02-6	trans 1,3-Dichloropropene	SOLID	#N/A	mg/kg	ug/kg				<200											<200	<200	<10											
103-65-1	Propylbenzene	SOLID	0.28	mg/kg	ug/kg				<200											<200	<200	<10											
104-51-8	n-Butylbenzene	SOLID	1.39	mg/kg	ug/kg				<220											<220	<220	<11											
105-67-9	2,4-Dimethylphenol	SOLID	1.18	mg/kg	ug/kg				<100											<100	<100	<100											
106-43-4	4-Chlorotoluene	SOLID	#N/A	mg/kg	ug/kg				<200											<200	<200	<10											
106-44-5	4-Methylphenol	SOLID	0.53	mg/kg	ug/kg				<100											<100	<100	<100											
106-46-7	1,4-Dichlorobenzene	SOLID	48.01	mg/kg	ug/kg				<100											<100	<100	<100											
106-93-4	1,2-Dibromoethane	SOLID	#N/A	mg/kg	ug/kg				<200											<200	<200	<10											
107-06-2	1,2-Dichloroethane	SOLID	#N/A	mg/kg	ug/kg				<100											<100	<100	<5											
108-67-8	1,3,5-Trimethylbenzene	SOLID	0.15	mg/kg	ug/kg				<160											<160	<160	80.9											
108-86-1	Bromobenzene	SOLID	#N/A	mg/kg	ug/kg				<200											<200	<200	<10											
108-88-3	Toluene	SOLID	0.88	mg/kg	ug/kg	<7		<140	<140	<140	<7		<7	<7	<7	<70	<7	<140	<140	<140	<7	<7	<7										
108-90-7	Chlorobenzene	SOLID	4.46	mg/kg	ug/kg				<100											<100	<100	<5											
108-95-2	Phenol	SOLID	0.04	mg/kg	ug/kg				<100											<100	<100	<100											
111-44-4	Bis(2-chloroethyl)ether	SOLID	#N/A	mg/kg	ug/kg				<100											<100	<100	<100											
111-91-1	Bis(2-chloroethoxy)methane	SOLID	0.01	mg/kg	ug/kg				<100											<100	<100	<100											
117-81-7	Bis(2-ethylhexyl)phthalate	SOLID	18472.17	mg/kg	ug/kg				<100											13900.0	<100	<100											
117-84-0	n-Dioctylphthalate	SOLID	146035.35	mg/kg	ug/kg				151.0											<100	<100	<100											
118-74-1	Hexachlorobenzene	SOLID	0.23	mg/kg	ug/kg				<100		<50									<100	<100	<100											
120-82-1	1,2,4-Trichlorobenzene	SOLID	1.81	mg/kg	ug/kg				<100											<100	<100	<100											
120-83-2	2,4-Dichlorophenol	SOLID	0.28	mg/kg	ug/kg				<100											<100	<100	<100											
121-14-2	2,4-Dinitrotoluene	SOLID	0.00	mg/kg	ug/kg				<100											<100	<100	<100											
124-48-1	Dibromochloromethane	SOLID	#N/A	mg/kg	ug/kg				<200											<200	<200	<10											
127-18-4	Tetrachloroethene	SOLID	1.46	mg/kg	ug/kg				<100											<100	<100	<5											
131-11-3	Dimethyl phthalate	SOLID	#N/A	mg/kg	ug/kg				<100											<100	<100	<100											
132-64-9	Dibenzofuran	SOLID	0.49	mg/kg	ug/kg				<100											<100	<100	<100											
135-98-8	sec-Butylbenzene	SOLID	1.39	mg/kg	ug/kg				<200											<200	<200	<10											
142-28-9	1,3-Dichloropropane	SOLID	#N/A	mg/kg	ug/kg				<140											<140	<140	<7											
156-59-2	cis 1,2-Dichloroethene	SOLID	0.31	mg/kg	ug/kg				<120											<120	<120	<6											
156-60-5	trans 1,2-Dichloroethene	SOLID	#N/A	mg/kg	ug/kg				<200											<200	<200	<10											
198-55-0	Perylene	SOLID	206.28	mg/kg	ug/kg																												
39638-32-9	Bis(2-chloroisopropyl)ether	SOLID	#N/A	mg/kg	ug/kg				<100											<100	<100	<100											
541-73-1	1,3-Dichlorobenzene	SOLID	145.60	mg/kg	ug/kg				<100											<100	<100	<100											
56-23-5	Carbon Tetrachloride	SOLID	#N/A	mg/kg	ug/kg				<200											<200	<200	<10											
563-58-6	1,1-Dichloropropene	SOLID	0.41	mg/kg	ug/kg				<200											<200	<200	<10											
594-20-7	2,2-Dichloropropane	SOLID	#N/A	mg/kg	ug/kg				<200											<200	<200	<10											
59-50-7	4-Chloro-3-methylphenol	SOLID	2.93	mg/kg	ug/kg				<100											<100	<100	<100											
606-20-2	2,6-Dinitrotoluene	SOLID	1.48	mg/kg	ug/kg				<100											<100	<100	<100											
621-64-7	n-Nitroso-n-dipropylamine	SOLID	#N/A	mg/kg	ug/kg				<100											<100	<100	<100											
630-20-6	1,1,1,2-Tetrachloroethane	SOLID	#N/A																														

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Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	Hole Ref																			
						AEC18-LF-BH217	AEC18-LF-BH218	AEC18-LF-BH218	AEC18-LF-BH218	AEC18-LF-BH219	AEC18-LF-BH219	AEC18-LF-BH219	AEC18-LF-BH220	AEC18-LF-BH220	AEC18-LF-BH220	AEC18-LF-BH221	AEC18-LF-BH221	AEC18-LF-BH221	AEC18-LF-BH222	AEC18-LF-BH222	AEC18-LF-BH222	AEC18-LF-BH223	AEC18-LF-BH223	AEC18-LF-BH223	
						7.00	1.00	5.20	9.50	10.50	16.00	4.50	0.10	11.10	5.60	0.30	3.80	6.90	0.16	3.55	4.10	7.40	0.70	1.70	10.10
						ZCL	MADE GROUND	MG-LF	MG-LF	MG-LF	MG-LF	MADE GROUND	MADE GROUND	CHK	ZCL	MADE GROUND	MADE GROUND	MADE GROUND	MADE GROUND	ZCL	MG-LF	MG-LF	MADE GROUND	MADE GROUND	MADE GROUND
							1	3	5	7	9	4	1	8	4	1	4	7	1	6	7	9	2	3	7
						ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
71-55-6	1,1,1-Trichloroethane	SOLID	#N/A	mg/kg	ug/kg				<140																
7440-39-3	Barium	SOLID	78.73	mg/kg	mg/kg																				
74-83-9	Bromomethane	SOLID	#N/A	mg/kg	ug/kg				<200																
74-87-3	Chloromethane	SOLID	0.02	mg/kg	ug/kg				<140																
74-95-3	Dibromomethane	SOLID	#N/A	mg/kg	ug/kg				<180																
74-97-5	Bromochloromethane	SOLID	#N/A	mg/kg	ug/kg				<200																
75-00-3	Chloroethane	SOLID	#N/A	mg/kg	ug/kg				<200																
75-01-4	Vinyl Chloride	SOLID	#N/A	mg/kg	ug/kg				<120																
75-09-2	Dichloromethane	SOLID	0.03	mg/kg	ug/kg				<200																
75-15-0	Carbon Disulphide	SOLID	0.07	mg/kg	ug/kg				<140																
75-25-2	Bromoform	SOLID	#N/A	mg/kg	ug/kg				<200																
75-27-4	Bromodichloromethane	SOLID	#N/A	mg/kg	ug/kg				<140																
75-34-3	1,1-Dichloroethane	SOLID	0.01	mg/kg	ug/kg				<160																
75-35-4	1,1-Dichloroethene	SOLID	#N/A	mg/kg	ug/kg				<200																
75-69-4	Trichlorofluoromethane	SOLID	0.05	mg/kg	ug/kg				<120																
75-71-8	Dichlorodifluoromethane	SOLID	#N/A	mg/kg	ug/kg				<120																
77-47-4	Hexachlorocyclopentadiene	SOLID	#N/A	mg/kg	ug/kg				<100																
78-59-1	Isophorone	SOLID	22.26	mg/kg	ug/kg				<100																
78-87-5	1,2-Dichloropropane	SOLID	#N/A	mg/kg	ug/kg				<200																
79-00-5	1,1,2-Trichloroethane	SOLID	#N/A	mg/kg	ug/kg				<200																
79-01-6	Trichloroethene	SOLID	0.09	mg/kg	ug/kg				<180																
79-34-5	1,1,2,2-Tetrachloroethane	SOLID	2.66	mg/kg	ug/kg				<200																
84-66-2	Diethyl phthalate	SOLID	3.11	mg/kg	ug/kg				<100																
84-74-2	Di-N-Butyl Phthalate	SOLID	0.52	mg/kg	ug/kg				2350.0																
85-68-7	Butylbenzyl phthalate	SOLID	23.36	mg/kg	ug/kg				<100																
86-74-8	Carbazole	SOLID	0.01	mg/kg	ug/kg				<100																
87-61-6	1,2,3-Trichlorobenzene	SOLID	#N/A	mg/kg	ug/kg				<400																
87-68-3	Hexachlorobutadiene	SOLID	#N/A	mg/kg	ug/kg				<100																
87-86-5	Pentachlorophenol	SOLID	2.17	mg/kg	ug/kg				<100																
88-06-2	2,4,6-Trichlorophenol	SOLID	#N/A	mg/kg	ug/kg				<100																
88-75-5	2-Nitrophenol	SOLID	0.03	mg/kg	ug/kg				<100																
91-57-6	2-Methylnaphthalene (SVOC) DEFAULT	SOLID	0.84	mg/kg	ug/kg				<100																
91-58-7	2-Chloronaphthalene	SOLID	0.92	mg/kg	ug/kg				<100																
95-47-6	Xylene	SOLID	0.23	mg/kg	ug/kg	<10		<200	<200	<200	29.2			<10	<10		<10	<100	<10	<200	<200	<200	16.9	<10	<10
95-48-7	2-Methylphenol	SOLID	0.54	mg/kg	ug/kg				<100																
95-49-8	2-Chlorotoluene	SOLID	#N/A	mg/kg	ug/kg				<180																
95-50-1	1,2-Dichlorobenzene	SOLID	40.42	mg/kg	ug/kg				<100																
95-57-8	2-Chlorophenol	SOLID	#N/A	mg/kg	ug/kg				<100																
95-63-6	1,2,4-Trimethylbenzene	SOLID	0.25	mg/kg	ug/kg				<180																
95-95-4	2,4,5-Trichlorophenol	SOLID	60.93	mg/kg	ug/kg				<100																
96-12-8	1,2-Dibromo-3-chloropropane	SOLID	#N/A	mg/kg	ug/kg				<280																
96-18-4	1,2,3-Trichloropropane	SOLID	0.44	mg/kg	ug/kg				<320																
98-06-6	tert-Butylbenzene	SOLID	0.75	mg/kg	ug/kg				<280																
98-82-8	Isopropylbenzene	SOLID	0.27	mg/kg	ug/kg				<100																
98-95-3	Nitrobenzene	SOLID	0.00	mg/kg	ug/kg				<100																
99-87-6	4-Isopropyltoluene	SOLID	54.06	mg/kg	ug/kg				<200																
P1374	Xylene	SOLID	0.23	mg/kg	ug/kg	<10		596.0	<200	<200	108.0			<10	<10		<10	<100	<10	<200	<200	<200	66.7	37.4	<10
P1762	TPH Aromatic >C8-C10	SOLID	219.16	mg/kg	mg/kg																				
P1763	TPH Aromatic >C8-C10	SOLID	219.16	mg/kg	mg/kg																				
P1334	pH	SOLID	#N/A	mg/kg	pH																				
101-21-3	Chlorpropham	SOLID	#N/A	mg/kg	mg/kg																				
1014-70-6	Simetryn SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																				
1024-57-3	Heptachlor Epoxide	SOLID	#N/A	mg/kg	ug/kg				<50																<1000
1031-07-8	Endosulphan Sulphate	SOLID	#N/A	mg/kg	ug/kg				<50																<1000
117-18-0	Tecnazene	SOLID	#N/A	mg/kg	ug/kg				<50																<1000
120-36-5	2,4-DP; (Dichlorprop)	SOLID	#N/A	mg/kg	mg/kg				<0.01																<0.01
121-75-5	Malathion	SOLID	#N/A	mg/kg	ug/kg				<50																<1000
122-14-5	Fenitrothion	SOLID	#N/A	mg/kg	ug/kg				<50																<1000
122-34-9	Simazine SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																				
122-42-9	Propham	SOLID	#N/A	mg/kg	mg/kg																				
122-88-3	4-CPA	SOLID	#N/A	mg/kg	mg/kg																				<0.01
13684-63-4	Phenmedipham	SOLID	#N/A	mg/kg	mg/kg																				<0.01
139-40-2	Propazine SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																				
1461-22-9	Tributyltin SUBCON i2	SOLID	#N/A	mg/kg	ug/kg																				

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Hole Ref	AEC18-LF-BH217	AEC18-LF-BH218	AEC18-LF-BH218	AEC18-LF-BH218	AEC18-LF-BH219	AEC18-LF-BH219	AEC18-LF-BH219	AEC18-LF-BH220	AEC18-LF-BH220	AEC18-LF-BH220	AEC18-LF-BH221	AEC18-LF-BH221	AEC18-LF-BH221	AEC18-LF-BH222	AEC18-LF-BH222	AEC18-LF-BH222	AEC18-LF-BH222	AEC18-LF-BH223	AEC18-LF-BH223	AEC18-LF-BH223
Sample Top	7.00	1.00	5.20	9.50	10.50	16.00	4.50	0.10	11.10	5.60	0.30	3.80	6.90	0.16	3.55	4.10	7.40	0.70	1.70	10.10
Lookup soil	ZCL	MADE GROUND	MG-LF	MG-LF	MG-LF	MG-LF	MADE GROUND	MADE GROUND	CHK	ZCL	MADE GROUND	MADE GROUND	MADE GROUND	MADE GROUND	ZCL	MG-LF	MG-LF	MADE GROUND	MADE GROUND	MADE GROUND
Sample Ref		1	3	5	7	9	4	1	8	4	1	4	7	1	6	7	9	2	3	7
Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
1610-18-0	Prometon SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg															
16118-49-3	Carbetamide	SOLID	#N/A	mg/kg	mg/kg															
1689-83-4	Ioxynil	SOLID	#N/A	mg/kg	mg/kg															
1689-84-5	Bromoxynil	SOLID	#N/A	mg/kg	mg/kg															
1702-17-6	Clopyralid	SOLID	#N/A	mg/kg	mg/kg															
1746-81-2	Monolinuron	SOLID	#N/A	mg/kg	mg/kg															
18691-97-9	Methabenzthiazuron	SOLID	#N/A	mg/kg	mg/kg															
1897-45-6	Chlorothalonil	SOLID	#N/A	mg/kg	ug/kg															
1912-24-9	Atrazine SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg															
1918-00-9	Dicamba	SOLID	#N/A	mg/kg	mg/kg															
6607	Picloram	SOLID	#N/A	mg/kg	mg/kg															
1967-16-4	Chlorbufam	SOLID	#N/A	mg/kg	mg/kg															
1982-47-4	Chloroxuron	SOLID	#N/A	mg/kg	mg/kg															
19937-59-8	Metoxuron	SOLID	#N/A	mg/kg	mg/kg															
2132-70-9	p,p-Methoxychlor	SOLID	#N/A	mg/kg	ug/kg															
2274-67-1	Chlorpyrifos-methyl	SOLID	#N/A	mg/kg	ug/kg															
2303-17-5	Triallate	SOLID	#N/A	mg/kg	ug/kg															
2310-17-0	Phosalone	SOLID	#N/A	mg/kg	ug/kg															
23103-98-2	Pirimicarb	SOLID	#N/A	mg/kg	mg/kg															
24017-47-8	Triazophos	SOLID	#N/A	mg/kg	ug/kg															
25057-89-0	Bentazone	SOLID	#N/A	mg/kg	mg/kg															
2642-71-9	Azinphos-ethyl	SOLID	#N/A	mg/kg	ug/kg															
2921-88-2	Chlorpyrifos	SOLID	#N/A	mg/kg	ug/kg															
29232-93-7	Pirimiphos Methyl	SOLID	#N/A	mg/kg	ug/kg															
297-78-9	Telodrin	SOLID	#N/A	mg/kg	ug/kg															
298-00-0	Methyl Parathion	SOLID	#N/A	mg/kg	ug/kg															
298-01-1	Mevinphos	SOLID	#N/A	mg/kg	ug/kg															
298-04-4	Disulfoton SUBCON OCP Alcontrol	SOLID	#N/A	mg/kg	ug/kg															
29973-13-5	Ethiofencarb	SOLID	#N/A	mg/kg	mg/kg															
30667-99-3	o,p-Methoxychlor	SOLID	#N/A	mg/kg	ug/kg															
309-00-2	Aldrin SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg															
31218-83-4	Propetamphos	SOLID	#N/A	mg/kg	ug/kg															
314-40-9	Bromacil	SOLID	#N/A	mg/kg	mg/kg															
319-84-6	alpha-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg															
319-85-7	beta-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg															
330-54-1	Diuron SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg															
330-55-2	Linuron	SOLID	#N/A	mg/kg	mg/kg															
33213-65-9	Endosulphan II	SOLID	#N/A	mg/kg	ug/kg															
333-41-5	Diazinon	SOLID	#N/A	mg/kg	ug/kg															
34123-59-6	Isoproturon	SOLID	#N/A	mg/kg	mg/kg															
34205-21-5	Dimefuron	SOLID	#N/A	mg/kg	mg/kg															
3424-82-6	o,p-DDE	SOLID	#N/A	mg/kg	ug/kg															
35367-38-5	Diflubenuron	SOLID	#N/A	mg/kg	mg/kg															
698836	Benazolin	SOLID	#N/A	mg/kg	mg/kg															
38260-54-7	Etrimephos	SOLID	#N/A	mg/kg	ug/kg															
40483-25-2	Diclofop	SOLID	#N/A	mg/kg	mg/kg															
40487-42-1	Pendimethalin	SOLID	#N/A	mg/kg	ug/kg															
43121-43-3	Triadimefon	SOLID	#N/A	mg/kg	ug/kg															
465-73-6	Isodrin	SOLID	#N/A	mg/kg	ug/kg															
470-90-6	Chlorfenvinphos	SOLID	#N/A	mg/kg	ug/kg															
50-29-3	p,p-DDT SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg															
50-31-7	2,3,6-TBA	SOLID	#N/A	mg/kg	mg/kg															
5103-71-9	cis-Chlordane SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg															
5103-74-2	trans-Chlordane SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg															
51630-58-1	Fenvalerate SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg															
52315-07-8	Cypermethrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg															
52645-53-1	Permethrin SUBCON RPS MH Pyrethroids	SOLID	#N/A	mg/kg	mg/kg															
52756-22-6	Flamprop-isopropyl	SOLID	#N/A	mg/kg	mg/kg															
52918-63-5	Deltamethrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg															
53-19-0	o,p-TDE (DDD)	SOLID	#N/A	mg/kg	ug/kg															
55335-06-3	Triclopyr	SOLID	#N/A	mg/kg	mg/kg															
55-38-9	Fenthion	SOLID	#N/A	mg/kg	ug/kg															
563-12-2	Ethion	SOLID	#N/A	mg/kg	ug/kg															
56-38-2	Parathion (Ethyl Parathion)	SOLID	#N/A	mg/kg	ug/kg															
58667-63-3	Fiamprop	SOLID	#N/A	mg/kg	mg/kg															

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					Hole Ref	AEC18-LF-BH217	AEC18-LF-BH218	AEC18-LF-BH218	AEC18-LF-BH218	AEC18-LF-BH219	AEC18-LF-BH219	AEC18-LF-BH219	AEC18-LF-BH220	AEC18-LF-BH220	AEC18-LF-BH220	AEC18-LF-BH221	AEC18-LF-BH221	AEC18-LF-BH221	AEC18-LF-BH222	AEC18-LF-BH222	AEC18-LF-BH222	AEC18-LF-BH222	AEC18-LF-BH223	AEC18-LF-BH223	AEC18-LF-BH223
					Sample Top	7.00	1.00	5.20	9.50	10.50	16.00	4.50	0.10	11.10	5.60	0.30	3.80	6.90	0.16	3.55	4.10	7.40	0.70	1.70	10.10
					Lookup soil	ZCL	MADE GROUND	MG-LF	MG-LF	MG-LF	MG-LF	MADE GROUND	MADE GROUND	CHK	ZCL	MADE GROUND	MADE GROUND	MADE GROUND	MADE GROUND	ZCL	MG-LF	MG-LF	MADE GROUND	MADE GROUND	MADE GROUND
					Sample Ref		1	3	5	7	9	4	1	8	4	1	4	7	1	6	7	9	2	3	7
Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
103-33-3	Azobenzene	SOLID - INITIAL	0.38	mg/kg	ug/kg					<100										<100		<100	<100		
106-47-8	4-Chloroaniline	SOLID - INITIAL	0.01	mg/kg	ug/kg					<100										<100		<100	<100		
700-57-23	4-Chlorophenylphenylether	SOLID - INITIAL	#N/A	mg/kg	ug/kg					<100										<100		<100	<100		
88-74-4	2-Nitroaniline	SOLID - INITIAL	0.01	mg/kg	ug/kg					<100										<100		<100	<100		
99-09-2	3-Nitroaniline	SOLID - INITIAL	#N/A	mg/kg	ug/kg					<100										<100		<100	<100		
994-05-8	Tertiary Amyl Methyl Ether	SOLID - INITIAL	#N/A	mg/kg	ug/kg					<200										<200		<200	<10		
1336-36-6	PCB Total (WAC only)	SOLID	#N/A	mg/kg	mg/kg																				
P1330	BTEX (total) WAC	SOLID	#N/A	mg/kg	mg/kg																				

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Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	AEC18-LF-BH223	AEC18-LF-BH223	AEC18-LF-BH224	AEC18-LF-BH224	AEC18-LF-BH225	AEC18-LF-BH225	AEC18-LF-BH225	AEC18-LF-BH225	AEC18-LF-BH225	AEC18-LF-BH226	AEC18-LF-BH226	AEC18-LF-BH226	AEC18-LF-BH227	AEC18-LF-BH227	AEC18-LF-BH227	AEC18-LF-BH228	AEC18-LF-BH228	AEC18-LF-BH228	AEC18-LF-BH228	AEC18-LF-BH228			
						5.30	7.60	0.30	4.60	0.70	13.00	3.10	7.90	9.50	1.20	10.00	5.50	1.80	3.80	5.00	0.20	1.40	10.80	11.40	12.10	MG-LF	MADE GROUND	MADE GROUND
Sample Ref	5	1	4	3	11	4	7	8	2	9	6	2	4	5	1	4	9	ES	ES	ES	ES	ES	ES	ES	ES	ES		
108-67-8	1,3,5-Trimethylbenzene	SOLID - INITIAL	0.15	mg/kg	mg/kg																							
108-86-1	Bromobenzene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																							
108-90-7	Chlorobenzene	SOLID - INITIAL	4.46	mg/kg	mg/kg																							
108-95-2	Phenol	SOLID - INITIAL	0.04	mg/kg	mg/kg	<0.01	<0.01	<0.01	0.1	<0.05	<0.01	6.4	0.1	0.1	<0.01	<0.01	<0.01	<0.01	0.0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01			
111-91-1	Bis(2-chloroethoxy)methane	SOLID - INITIAL	0.01	mg/kg	mg/kg																							
117-81-7	Bis(2-ethylhexyl)phthalate	SOLID - INITIAL	18472.17	mg/kg	mg/kg																							
117-84-0	Di-N-Octyl Phthalate	SOLID - INITIAL	#N/A	mg/kg	mg/kg																							
118-74-1	Hexachlorobenzene (HCB)	SOLID - INITIAL	#N/A	mg/kg	mg/kg																							
120-82-1	1,2,4-Trichlorobenzene	SOLID - INITIAL	1.81	mg/kg	mg/kg																							
120-83-2	2,4-Dichlorophenol	SOLID - INITIAL	0.28	mg/kg	mg/kg																							
121-14-2	2,4-Dinitrotoluene	SOLID - INITIAL	0.00	mg/kg	mg/kg																							
122-39-4	Diphenylamine	SOLID - INITIAL	#N/A	mg/kg	mg/kg																							
124-48-1	Dibromochloromethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																							
127-18-4	Tetrachloroethene	SOLID - INITIAL	1.46	mg/kg	mg/kg																							
131-11-3	Dimethylphthalate	SOLID - INITIAL	#N/A	mg/kg	mg/kg																							
132-64-9	Dibenzofuran	SOLID - INITIAL	0.49	mg/kg	mg/kg																							
135-98-8	Sec-Butylbenzene	SOLID - INITIAL	1.39	mg/kg	mg/kg																							
142-28-9	1,3-Dichloropropane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																							
156-59-2	cis-1,2-Dichloroethene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																							
156-60-5	trans-1,2-Dichloroethene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																							
1634-04-4	Methyl tert-butyl ether (MTBE)	SOLID - INITIAL	#N/A	mg/kg	mg/kg																							
39638-32-9	Bis(2-chloroisopropyl)ether	SOLID - INITIAL	#N/A	mg/kg	mg/kg																							
528-29-0	O-Dinitrobenzene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																							
534-52-1	2-Methyl-4,6-Dinitrophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																							
541-73-1	1,3-Dichlorobenzene	SOLID - INITIAL	145.60	mg/kg	mg/kg																							
56-23-5	Tetrachloromethane (Carbon Tetra Chloride)	SOLID - INITIAL	#N/A	mg/kg	mg/kg																							
563-58-6	1,1-Dichloropropene	SOLID - INITIAL	0.41	mg/kg	mg/kg																							
58-90-2	2,3,4,6-Tetrachlorophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																							
594-20-7	2,2-Dichloropropane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																							
59-50-7	4-Chloro-3-Methylphenol	SOLID - INITIAL	2.93	mg/kg	mg/kg																							
606-20-2	2,6-Dinitrotoluene	SOLID - INITIAL	1.48	mg/kg	mg/kg																							
62-53-3	Aniline	SOLID - INITIAL	#N/A	mg/kg	mg/kg																							
630-20-6	1,1,1,2-Tetrachloroethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																							
67-66-3	Chloroform	SOLID - INITIAL	#N/A	mg/kg	mg/kg																							
700-57-23	4-Chlorophenyl Phenyl Ether	SOLID - INITIAL	#N/A	mg/kg	mg/kg																							
71-55-6	1,1,1-Trichloroethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																							
74-95-3	Dibromomethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																							
74-97-5	Bromochloromethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																							
75-01-4	Chloroethene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																							
75-25-2	Tribromomethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																							
75-27-4	Bromodichloromethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																							
75-34-3	1,1-Dichloroethane	SOLID - INITIAL	0.01	mg/kg	mg/kg																							
75-35-4	1,1-Dichloroethene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																							
77-47-4	Hexachlorocyclopentadiene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																							
78-87-5	1,2-Dichloropropane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																							
79-00-5	1,1,2-Trichloroethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																							
79-01-6	Trichloroethene	SOLID - INITIAL	0.09	mg/kg	mg/kg																							
84-66-2	Diethylphthalate	SOLID - INITIAL	#N/A	mg/kg	mg/kg																							
84-74-2	Di-N-Butyl Phthalate	SOLID - INITIAL	0.52	mg/kg	mg/kg																							
85-68-7	Butylbenzylphthalate	SOLID - INITIAL	23.36	mg/kg	mg/kg																							
86-74-8	Carbazole	SOLID - INITIAL	0.01	mg/kg	mg/kg																							
87-61-6	1,2,3 Trichlorobenzene	SOLID - INITIAL	0.26	mg/kg	mg/kg																							
87-68-3	Hexachlorobutadiene (HCBd)	SOLID - INITIAL	#N/A	mg/kg	mg/kg																							
87-86-5	Pentachlorophenol (PCP)	SOLID - INITIAL	#N/A	mg/kg	mg/kg																							
88-06-2	2,4,6-Trichlorophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																							
88-74-4	2-Nitroaniline	SOLID - INITIAL	0.01	mg/kg	mg/kg																							
91-57-6	2-Methylnaphthalene	SOLID - INITIAL	0.84	mg/kg	mg/kg																							
91-58-7	2-Chloronaphthalene	SOLID - INITIAL	0.92	mg/kg	mg/kg																							
935-95-5	2,3,5,6-Tetrachlorophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																							
95-47-6	Xylene	SOLID - INITIAL	0.23	mg/kg	mg/kg																							
95-48-7	2-Methylphenol	SOLID - INITIAL	0.54	mg/kg	mg/kg																							
95-49-8	2-Chlorotoluene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																							
95-50-1	1,2-Dichlorobenzene	SOLID - INITIAL	40.42	mg/kg	mg/kg																							
95-57-8	2-Chlorophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																							
95-63-6	1,2,4-Trimethylbenzene	SOLID - INITIAL	0.25	mg/kg	mg/kg																							
95-95-4	2,4,5-Trichlorophenol	SOLID - INITIAL	60.93	mg/kg	mg/kg																							
96-12-8	1,2-Dibromo-3-Chloropropane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																							
96-18-4	1,2,3-Trichloropropane	SOLID - INITIAL	0.44	mg/kg	mg/kg																							

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Hole Ref	AEC18-LF-BH223	AEC18-LF-BH223	AEC18-LF-BH224	AEC18-LF-BH224	AEC18-LF-BH225	AEC18-LF-BH225	AEC18-LF-BH225	AEC18-LF-BH225	AEC18-LF-BH225	AEC18-LF-BH226	AEC18-LF-BH226	AEC18-LF-BH226	AEC18-LF-BH227	AEC18-LF-BH227	AEC18-LF-BH227	AEC18-LF-BH228	AEC18-LF-BH228	AEC18-LF-BH228	AEC18-LF-BH228	AEC18-LF-BH228
Sample Top	5.30	7.60	0.30	4.60	0.70	13.00	3.10	7.90	9.50	1.20	10.00	5.50	1.80	3.80	5.00	0.20	1.40	10.80	11.40	12.10
Lookup soil	MG-LF	MADE GROUND	MADE GROUND	MG-LF	MG-LF	CHK	MG-LF	MG-LF	MG-LF	MADE GROUND	MADE GROUND	MADE GROUND	MADE GROUND	MADE GROUND	MG-LF	MADE GROUND	MADE GROUND	CwF	CwF	CHK
Sample Ref	5		1	4	3	11	4	7	8	2	9	6	2	4	5	1	4	9		
Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES

Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	AEC18-LF-BH223	AEC18-LF-BH223	AEC18-LF-BH224	AEC18-LF-BH224	AEC18-LF-BH225	AEC18-LF-BH225	AEC18-LF-BH225	AEC18-LF-BH225	AEC18-LF-BH226	AEC18-LF-BH226	AEC18-LF-BH226	AEC18-LF-BH227	AEC18-LF-BH227	AEC18-LF-BH227	AEC18-LF-BH228	AEC18-LF-BH228	AEC18-LF-BH228	AEC18-LF-BH228	AEC18-LF-BH228		
1610-18-0	Prometon SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																					
16118-49-3	Carbetamide	SOLID	#N/A	mg/kg	mg/kg																					
1689-83-4	loxynil	SOLID	#N/A	mg/kg	mg/kg																					
1689-84-5	Bromoxynil	SOLID	#N/A	mg/kg	mg/kg																					
1702-17-6	Clopyralid	SOLID	#N/A	mg/kg	mg/kg																					
1746-81-2	Monolinuron	SOLID	#N/A	mg/kg	mg/kg																					
18691-97-9	Methabenzthiazuron	SOLID	#N/A	mg/kg	mg/kg																					
1897-45-6	Chlorothalonil	SOLID	#N/A	mg/kg	ug/kg																					
1912-24-9	Atrazine SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																					
1918-00-9	Dicamba	SOLID	#N/A	mg/kg	mg/kg																					
6607	Picloram	SOLID	#N/A	mg/kg	mg/kg																					
1967-16-4	Chlorbufam	SOLID	#N/A	mg/kg	mg/kg																					
1982-47-4	Chloroxuron	SOLID	#N/A	mg/kg	mg/kg																					
19937-59-8	Metoxuron	SOLID	#N/A	mg/kg	mg/kg																					
2132-70-9	p,p-Methoxychlor	SOLID	#N/A	mg/kg	ug/kg																					
2274-67-1	Chlorpyrifos-methyl	SOLID	#N/A	mg/kg	ug/kg																					
2303-17-5	Triallate	SOLID	#N/A	mg/kg	ug/kg																					
2310-17-0	Phosalone	SOLID	#N/A	mg/kg	ug/kg																					
23103-98-2	Pirimicarb	SOLID	#N/A	mg/kg	mg/kg																					
24017-47-8	Triazophos	SOLID	#N/A	mg/kg	ug/kg																					
25057-89-0	Bentazone	SOLID	#N/A	mg/kg	mg/kg																					
2642-71-9	Azinphos-ethyl	SOLID	#N/A	mg/kg	ug/kg																					
2921-88-2	Chlorpyrifos	SOLID	#N/A	mg/kg	ug/kg																					
29232-93-7	Pirimiphos Methyl	SOLID	#N/A	mg/kg	ug/kg																					
297-78-9	Telodrin	SOLID	#N/A	mg/kg	ug/kg																					
298-00-0	Methyl Parathion	SOLID	#N/A	mg/kg	ug/kg																					
298-01-1	Mevinphos	SOLID	#N/A	mg/kg	ug/kg																					
298-04-4	Disulfoton SUBCON OCP Alcontrol	SOLID	#N/A	mg/kg	ug/kg																					
29973-13-5	Ethiofencarb	SOLID	#N/A	mg/kg	mg/kg																					
30667-99-3	o,p-Methoxychlor	SOLID	#N/A	mg/kg	ug/kg																					
309-00-2	Aldrin SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																					
31218-83-4	Propetamphos	SOLID	#N/A	mg/kg	ug/kg																					
314-40-9	Bromacil	SOLID	#N/A	mg/kg	mg/kg																					
319-84-6	alpha-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																					
	beta-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																					
319-85-7		SOLID	#N/A	mg/kg	ug/kg																					
330-54-1	Diuron SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																					
330-55-2	Linuron	SOLID	#N/A	mg/kg	mg/kg																					
33213-65-9	Endosulphan II	SOLID	#N/A	mg/kg	ug/kg																					
333-41-5	Diazinon	SOLID	#N/A	mg/kg	ug/kg																					
34123-59-6	Isoproturon	SOLID	#N/A	mg/kg	mg/kg																					
34205-21-5	Dimefuron	SOLID	#N/A	mg/kg	mg/kg																					
3424-82-6	o,p-DDE	SOLID	#N/A	mg/kg	ug/kg																					
35367-38-5	Diflufenzuron	SOLID	#N/A	mg/kg	mg/kg																					
698836	Benazolin	SOLID	#N/A	mg/kg	mg/kg																					
38260-54-7	Etrimpfos	SOLID	#N/A	mg/kg	ug/kg																					
40483-25-2	Diclofop	SOLID	#N/A	mg/kg	mg/kg																					
40487-42-1	Pendimethalin	SOLID	#N/A	mg/kg	ug/kg																					
43121-43-3	Triadimefon	SOLID	#N/A	mg/kg	ug/kg																					
465-73-6	Isodrin	SOLID	#N/A	mg/kg	ug/kg																					
470-90-6	Chlorfenvinphos	SOLID	#N/A	mg/kg	ug/kg																					
50-29-3	p,p-DDT SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																					
50-31-7	2,3,6-TBA	SOLID	#N/A	mg/kg	mg/kg																					
5103-71-9	cis-Chlordane SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																					
5103-74-2	trans-Chlordane SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																					
51630-58-1	Fenvalerate SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																					
52315-07-8	Cypermethrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																					
52645-53-1	Permethrin SUBCON RPS MH Pyrethroids	SOLID	#N/A	mg/kg	mg/kg																					
52756-22-6	Flamprop-isopropyl	SOLID	#N/A	mg/kg	mg/kg																					
52918-63-5	Deltamethrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																					
53-19-0	o,p-TDE (DDD)	SOLID	#N/A	mg/kg	ug/kg																					
55335-06-3	Triclopyr	SOLID	#N/A	mg/kg	mg/kg																					
55-38-9	Fenthion	SOLID	#N/A	mg/kg	ug/kg																					
563-12-2	Ethion	SOLID	#N/A	mg/kg	ug/kg																					
56-38-2	Parathion (Ethyl Parathion)	SOLID	#N/A	mg/kg	ug/kg																					
58667-63-3	Fiamprop	SOLID	#N/A	mg/kg	mg/kg																					

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Hole Ref	AEC18-LF-BH223	AEC18-LF-BH223	AEC18-LF-BH224	AEC18-LF-BH224	AEC18-LF-BH225	AEC18-LF-BH225	AEC18-LF-BH225	AEC18-LF-BH225	AEC18-LF-BH225	AEC18-LF-BH225	AEC18-LF-BH226	AEC18-LF-BH226	AEC18-LF-BH226	AEC18-LF-BH227	AEC18-LF-BH227	AEC18-LF-BH227	AEC18-LF-BH228	AEC18-LF-BH228	AEC18-LF-BH228	AEC18-LF-BH228	AEC18-LF-BH228	AEC18-LF-BH228
Sample Top	5.30	7.60	0.30	4.60	0.70	13.00	3.10	7.90	9.50	1.20	10.00	5.50	1.80	3.80	5.00	0.20	1.40	10.80	11.40	12.10		
Lookup soil	MG-LF	MADE GROUND	MADE GROUND	MG-LF	MG-LF	CHK	MG-LF	MG-LF	MG-LF	MADE GROUND	MADE GROUND	MADE GROUND	MADE GROUND	MADE GROUND	MADE GROUND	MG-LF	MADE GROUND	MADE GROUND	CwF	CwF	CHK	
Sample Ref	5		1	4	3	11	4	7	8	2	9	6	2	4	5	1	4	9				
Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
103-33-3	Azobenzene	SOLID - INITIAL	0.38	mg/kg	ug/kg	<100	<200			<500		1210.0	<500			<100	<100	<200			<100	
106-47-8	4-Chloroaniline	SOLID - INITIAL	0.01	mg/kg	ug/kg	<100	<200			<500		<100	<500			<100	<100	<200			<100	
700-57-23	4-Chlorophenylphenylether	SOLID - INITIAL	#N/A	mg/kg	ug/kg	<100	<200			<500		<100	<500			<100	<100	<200			<100	
88-74-4	2-Nitroaniline	SOLID - INITIAL	0.01	mg/kg	ug/kg	<100	<200			<500		<100	<500			<100	<100	<200			<100	
99-09-2	3-Nitroaniline	SOLID - INITIAL	#N/A	mg/kg	ug/kg	<100	<200			<500		<100	<500			<100	<100	<200			<100	
994-05-8	Tertiary Amyl Methyl Ether	SOLID - INITIAL	#N/A	mg/kg	ug/kg	<200	<200			<200		<200	<200			<200	<200	<200			<10	
1336-36-6	PCB Total (WAC only)	SOLID	#N/A	mg/kg	mg/kg																	
P1330	BTEX (total) WAC	SOLID	#N/A	mg/kg	mg/kg																	

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Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	AEC18-LF-BH228	AEC18-LF-BH228	AEC18-LF-BH229	AEC18-LF-BH229	AEC18-LF-BH229	AEC18-LF-BH231	AEC18-LF-BH231	AEC18-LF-BH231	AEC18-LF-BH231	AEC18-LF-BH232	AEC18-LF-BH232	AEC18-LF-BH232	AEC18-LF-BH233 (PFCP72)	AEC18-LF-BH233 (PFCP72)	AEC18-LF-BH233 (PFCP72)	AEC18-LF-BH233 (PFCP72)	AEC18-LF-BWS203	AEC18-LF-BWS205 (PFWS59)	AEC18-LF-BWS206	AEC18-LF-BWS207
						5.30	8.30	0.90	4.70	7.80	2.00	3.80	4.35	6.50	0.50	3.30	5.80	0.30	12.30	6.00	1.60	0.20	1.60	0.70	6.00
Sample Top	Lookup soil	Sample Ref	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
98-06-6	Tert-Butylbenzene	SOLID - INITIAL	0.75	mg/kg	mg/kg																				
98-82-8	Isopropylbenzene	SOLID - INITIAL	0.27	mg/kg	mg/kg																				
99-09-2	3-Nitroaniline	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
99-65-0	M-Dinitrobenzene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
99-87-6	4-Isopropyltoluene	SOLID - INITIAL	54.06	mg/kg	mg/kg																				
P1374	xylene	SOLID - INITIAL	0.23	mg/kg	mg/kg																				
18540-29-9	chromium hexavalent	SOLID - INITIAL	0.02	mg/kg	mg/kg					<0.6															
P1095	Cyanide Free	SOLID - INITIAL	#N/A	mg/kg	mg/kg					<1															
P1239	Complex Cyanide	SOLID - INITIAL	0.26	mg/kg	mg/kg					17.6															
31508-00-6	PCB-118 2,3,4,4,5 - Pentachlorobiphenyl	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
32598-13-3	PCB 77	SOLID - INITIAL	6185.41	mg/kg	mg/kg																				
32598-14-4	PCB 105	SOLID - INITIAL	8940.63	mg/kg	mg/kg																				
32774-16-6	PCB 169	SOLID - INITIAL	37270.75	mg/kg	mg/kg																				
38380-08-4	PCB-156 2,3,3,4,4,5 - Hexachlorobiphenyl	SOLID - INITIAL	3172.26	mg/kg	mg/kg																				
39635-31-9	PCB 189	SOLID - INITIAL	270002.64	mg/kg	mg/kg																				
52663-72-6	PCB 167	SOLID - INITIAL	45853.03	mg/kg	mg/kg																				
57465-28-8	PCB 126	SOLID - INITIAL	8940.63	mg/kg	mg/kg																				
65510-44-3	PCB 123	SOLID - INITIAL	8940.63	mg/kg	mg/kg																				
69782-90-7	PCB 157	SOLID - INITIAL	45853.03	mg/kg	mg/kg																				
70362-50-4	PCB 81	SOLID - INITIAL	8940.63	mg/kg	mg/kg																				
74472-37-0	PCB 114	SOLID - INITIAL	8940.63	mg/kg	mg/kg																				
100-02-7	4-Nitrophenol	SOLID	0.04	mg/kg	ug/kg	<100	<100						<200	<500			<200	<200			<100	<100			
100-41-4	Ethylbenzene	SOLID	0.53	mg/kg	ug/kg	<80	<80		<80	<80	<4	89100.0	7040.0	1850.0			<80	<80			<40	<4	<80		
100-42-5	Styrene	SOLID	1.04	mg/kg	ug/kg	<200	<200					<2000	<2000				<200	<200			<100	<10			
10061-01-5	cis 1,3-Dichloropropene	SOLID	#N/A	mg/kg	ug/kg	<200	<200					<2000	<2000				<200	<200			<100	<10			
10061-02-6	trans 1,3-Dichloropropene	SOLID	#N/A	mg/kg	ug/kg	<200	<200					<2000	<2000				<200	<200			<100	<10			
103-65-1	Propylbenzene	SOLID	0.28	mg/kg	ug/kg	<200	<200					18000.0	5680.0				<200	<200			<100	<10			
104-51-8	n-Butylbenzene	SOLID	1.39	mg/kg	ug/kg	<220	<220					7700.0	<2200				<220	<220			<110	<11			
105-67-9	2,4-Dimethylphenol	SOLID	1.18	mg/kg	ug/kg	<100	<100					3150.0	<500				<200	<200			<100	<100			
106-43-4	4-Chlorotoluene	SOLID	#N/A	mg/kg	ug/kg	<200	<200					<2000	<2000				<200	<200			<100	<10			
106-44-5	4-Methylphenol	SOLID	0.53	mg/kg	ug/kg	<100	<100					<200	<500				<200	313.0			<100	<100			
106-46-7	1,4-Dichlorobenzene	SOLID	48.01	mg/kg	ug/kg	<100	<100					<1000	<1000				<100	<100			<100	<100			
106-93-4	1,2-Dibromoethane	SOLID	#N/A	mg/kg	ug/kg	<200	<200					<2000	<2000				<200	<200			<100	<10			
107-06-2	1,2-Dichloroethane	SOLID	#N/A	mg/kg	ug/kg	<100	<100					<1000	<1000				<100	<100			<50	<5			
108-67-8	1,3,5-Trimethylbenzene	SOLID	0.15	mg/kg	ug/kg	<160	<160					153000.0	39400.0				<160	<160			<80	<8			
108-86-1	Bromobenzene	SOLID	#N/A	mg/kg	ug/kg	<200	<200					<2000	<2000				<200	<200			<100	<10			
108-88-3	Toluene	SOLID	0.88	mg/kg	ug/kg	<140	<140		<140	<140	<7	79500.0	<1400	170.0			<140	<140			<70	<7	<140		
108-90-7	Chlorobenzene	SOLID	4.46	mg/kg	ug/kg	<100	<100					<1000	<1000				<100	<100			<50	<5			
108-95-2	Phenol	SOLID	0.04	mg/kg	ug/kg	<100	<100					<200	<500				<200	<200			<100	<100			
111-44-4	Bis(2-chloroethyl)ether	SOLID	#N/A	mg/kg	ug/kg	<100	<100					<200	<500				<200	<200			<100	<100			
111-91-1	Bis(2-chloroethoxy)methane	SOLID	0.01	mg/kg	ug/kg	<100	<100					<200	<500				<200	<200			<100	<100			
117-81-7	Bis(2-ethylhexyl)phthalate	SOLID	18472.17	mg/kg	ug/kg	<100	<100					3950.0	3650.0				<200	<200			<100	<100			
117-84-0	n-Dioctylphthalate	SOLID	146035.35	mg/kg	ug/kg	<100	<100					822.0	615.0				<200	<200			<100	<100			
118-74-1	Hexachlorobenzene	SOLID	0.23	mg/kg	ug/kg	<100	<100					<1000	<500				<200	<200			<100	<100	<1000		
120-82-1	1,2,4-Trichlorobenzene	SOLID	1.81	mg/kg	ug/kg	<100	<100					<200	<4000				<200	<200			<100	<100			
120-83-2	2,4-Dichlorophenol	SOLID	0.28	mg/kg	ug/kg	<100	<100					<200	<500				<200	<200			<100	<100			
121-14-2	2,4-Dinitrotoluene	SOLID	0.00	mg/kg	ug/kg	<100	<100					<200	<500				<200	<200			<100	<100			
124-48-1	Dibromochloromethane	SOLID	#N/A	mg/kg	ug/kg	<200	<200					<2000	<2000				<200	<200			<100	<10			
127-18-4	Tetrachloroethene	SOLID	1.46	mg/kg	ug/kg	<100	<100					<1000	<1000				<100	<100			<50	<5			
131-11-3	Dimethyl phthalate	SOLID	#N/A	mg/kg	ug/kg	<100	<100					<200	<500				<200	<200			<100	<100			
132-64-9	Dibenzofuran	SOLID	0.49	mg/kg	ug/kg	<100	<100					<200	3270.0				<200	<200			<100	<100			
135-98-8	sec-Butylbenzene	SOLID	1.39	mg/kg	ug/kg	<200	<200					3410.0	<2000				<200	<200			<100	<10			
142-28-9	1,3-Dichloropropane	SOLID	#N/A	mg/kg	ug/kg	<140	<140					<1400	<1400				<140	<140			<70	<7			
156-59-2	cis 1,2-Dichloroethene	SOLID	0.31	mg/kg	ug/kg	<120	<120					3650.0	<1200				<120	<120			<60	<6			
156-60-5	trans 1,2-Dichloroethene	SOLID	#N/A	mg/kg	ug/kg	<200	<200					<2000	<2000				<200	<200			<100	<10			
198-55-0	Perylene	SOLID	206.28	mg/kg	ug/kg																				
39638-32-9	Bis(2-chloroisopropyl)ether	SOLID	#N/A	mg/kg	ug/kg	<100	<100					<200	<500				<200	<200			<100	<100			
541-73-1	1,3-Dichlorobenzene	SOLID	145.60	mg/kg	ug/kg	<100	<100					<1600	<1600				<160	<160			<100	<100			
56-23-5	Carbon Tetrachloride	SOLID	#N/A	mg/kg	ug/kg	<200	<200					<2000	<2000				<200	<200			<100	<10			
563-58-6	1,1-Dichloropropene	SOLID	0.41	mg/kg	ug/kg	<200	<200					<2000	<2000				<200	<200			<100	<10			
594-20-7	2,2-Dichloropropane	SOLID	#N/A	mg/kg	ug/kg	<200	<200					<2000	<2000				<200	<200			<100	<10			
59-50-7	4-Chloro-3-methylphenol	SOLID	2.93	mg/kg	ug/kg	<100	<100					<200	<500				<200	<200			<100	<100			
606-20-2	2,6-Dinitrotoluene	SOLID	1.48	mg/kg	ug/kg	<100	<100																		

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Hole Ref	AEC18-LF-BH228	AEC18-LF-BH228	AEC18-LF-BH229	AEC18-LF-BH229	AEC18-LF-BH229	AEC18-LF-BH231	AEC18-LF-BH231	AEC18-LF-BH231	AEC18-LF-BH231	AEC18-LF-BH231	AEC18-LF-BH232	AEC18-LF-BH232	AEC18-LF-BH232	AEC18-LF-BH233 (PFCP72)	AEC18-LF-BH233 (PFCP72)	AEC18-LF-BH233 (PFCP72)	AEC18-LF-BH233 (PFCP72)	AEC18-LF-BWS203	AEC18-LF-BWS205 (PFWS59)	AEC18-LF-BWS206	AEC18-LF-BWS207
Sample Top	5.30	8.30	0.90	4.70	7.80	2.00	3.80	4.35	6.50	0.50	3.30	5.80	0.30	12.30	6.00	1.60	0.20	1.60	0.70		
Lookup soil	MG-LF	MG-LF	MADE GROUND	MG-LF	MG-LF	MADE GROUND	MADE GROUND	MADE GROUND	MADE GROUND	MADE GROUND	MG-LF	MG-LF	MADE GROUND	MADE GROUND	MADE GROUND	ZCL	CwF	MADE GROUND	CwF	CwF	
Sample Ref	6	7	2	4	6	3	4	5	7	2	6	8	1	8	4	5	2	1	2	1	
Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES

Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	AEC18-LF-BH228	AEC18-LF-BH228	AEC18-LF-BH229	AEC18-LF-BH229	AEC18-LF-BH229	AEC18-LF-BH231	AEC18-LF-BH231	AEC18-LF-BH231	AEC18-LF-BH231	AEC18-LF-BH231	AEC18-LF-BH232	AEC18-LF-BH232	AEC18-LF-BH232	AEC18-LF-BH233 (PFCP72)	AEC18-LF-BH233 (PFCP72)	AEC18-LF-BH233 (PFCP72)	AEC18-LF-BH233 (PFCP72)	AEC18-LF-BWS203	AEC18-LF-BWS205 (PFWS59)	AEC18-LF-BWS206	AEC18-LF-BWS207		
1610-18-0	Prometon SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																							
16118-49-3	Carbetamide	SOLID	#N/A	mg/kg	mg/kg																							
1689-83-4	Ioxynil	SOLID	#N/A	mg/kg	mg/kg								<0.01										<0.01					
1689-84-5	Bromoxynil	SOLID	#N/A	mg/kg	mg/kg								<0.01											<0.01				
1702-17-6	Clopyralid	SOLID	#N/A	mg/kg	mg/kg																							
1746-81-2	Monolinuron	SOLID	#N/A	mg/kg	mg/kg																							
18691-97-9	Methabenzthiazuron	SOLID	#N/A	mg/kg	mg/kg																							
1897-45-6	Chlorothalonil	SOLID	#N/A	mg/kg	ug/kg								<2000										<1000					
1912-24-9	Atrazine SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																							
1918-00-9	Dicamba	SOLID	#N/A	mg/kg	mg/kg								<0.01											<0.01				
6607	Picloram	SOLID	#N/A	mg/kg	mg/kg																							
1967-16-4	Chlorbufam	SOLID	#N/A	mg/kg	mg/kg																							
1982-47-4	Chloroxuron	SOLID	#N/A	mg/kg	mg/kg																							
19937-59-8	Metoxuron	SOLID	#N/A	mg/kg	mg/kg																							
2132-70-9	p,p-Methoxychlor	SOLID	#N/A	mg/kg	ug/kg																							
2274-67-1	Chlorpyrifos-methyl	SOLID	#N/A	mg/kg	ug/kg								<1000											<1000				
2303-17-5	Triallate	SOLID	#N/A	mg/kg	ug/kg								<1000											<1000				
2310-17-0	Phosalone	SOLID	#N/A	mg/kg	ug/kg								<1000											<1000				
23103-98-2	Pirimicarb	SOLID	#N/A	mg/kg	mg/kg																							
24017-47-8	Triazophos	SOLID	#N/A	mg/kg	ug/kg								<1000											<1000				
25057-89-0	Bentazone	SOLID	#N/A	mg/kg	mg/kg								<0.01											<0.01				
2642-71-9	Azinphos-ethyl	SOLID	#N/A	mg/kg	ug/kg								<1000											<1000				
2921-88-2	Chlorpyrifos	SOLID	#N/A	mg/kg	ug/kg								<1000											<1000				
29232-93-7	Pirimiphos Methyl	SOLID	#N/A	mg/kg	ug/kg								<1000											<1000				
297-78-9	Telodrin	SOLID	#N/A	mg/kg	ug/kg								<1000											<1000				
298-00-0	Methyl Parathion	SOLID	#N/A	mg/kg	ug/kg								<1000											<1000				
298-01-1	Mevinphos	SOLID	#N/A	mg/kg	ug/kg								<1000											<1000				
298-04-4	Disulfoton SUBCON OCP Alcontrol	SOLID	#N/A	mg/kg	ug/kg								<1000											<1000				
29973-13-5	Ethiofencarb	SOLID	#N/A	mg/kg	mg/kg																							
30667-99-3	o,p-Methoxychlor	SOLID	#N/A	mg/kg	ug/kg								<1000											<1000				
309-00-2	Aldrin SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg								<1000											<1000				
31218-83-4	Propetamphos	SOLID	#N/A	mg/kg	ug/kg								<1000											<1000				
314-40-9	Bromacil	SOLID	#N/A	mg/kg	mg/kg																							
319-84-6	alpha-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg								<1000											<1000				
	beta-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg								<1000											<1000				
319-85-7		SOLID	#N/A	mg/kg	ug/kg																							
330-54-1	Diuron SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																							
330-55-2	Linuron	SOLID	#N/A	mg/kg	mg/kg																							
33213-65-9	Endosulphan II	SOLID	#N/A	mg/kg	ug/kg								<1000											<1000				
333-41-5	Diazinon	SOLID	#N/A	mg/kg	ug/kg								<1000											<1000				
34123-59-6	Isoproturon	SOLID	#N/A	mg/kg	mg/kg																							
34205-21-5	Dimefuron	SOLID	#N/A	mg/kg	mg/kg																							
3424-82-6	o,p-DDE	SOLID	#N/A	mg/kg	ug/kg								<1000											<1000				
35367-38-5	Diflufenzuron	SOLID	#N/A	mg/kg	mg/kg																							
698836	Benazolin	SOLID	#N/A	mg/kg	mg/kg																							
38260-54-7	Etrimephos	SOLID	#N/A	mg/kg	ug/kg								<1000											<1000				
40483-25-2	Diclofop	SOLID	#N/A	mg/kg	mg/kg								<0.01											<0.01				
40487-42-1	Pendimethalin	SOLID	#N/A	mg/kg	ug/kg								<1000											<1000				
43121-43-3	Triadimefon	SOLID	#N/A	mg/kg	ug/kg								<1000											<1000				
465-73-6	Isodrin	SOLID	#N/A	mg/kg	ug/kg								<1000											<1000				
470-90-6	Chlorfenvinphos	SOLID	#N/A	mg/kg	ug/kg								<1000											<1000				
50-29-3	p,p-DDT SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg								<1000											<1000				
50-31-7	2,3,6-TBA	SOLID	#N/A	mg/kg	mg/kg																							
5103-71-9	cis-Chlordane SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg								<1000											<1000				
5103-74-2	trans-Chlordane SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg								<1000											<1000				
51630-58-1	Fenvalerate SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																							
52315-07-8	Cypermethrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																							
52645-53-1	Permethrin SUBCON RPS MH Pyrethroids	SOLID	#N/A	mg/kg	mg/kg																							
52756-22-6	Flamprop-isopropyl	SOLID	#N/A	mg/kg	mg/kg																							
52918-63-5	Deltamethrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																							
53-19-0	o,p-TDE (DDD)	SOLID	#N/A	mg/kg	ug/kg								<1000											<1000				
55335-06-3	Triclopyr	SOLID	#N/A	mg/kg	mg/kg								<0.01											<0.01				
55-38-9	Fenthion	SOLID	#N/A	mg/kg	ug/kg								<1000											<1000				
563-12-2	Ethion	SOLID	#N/A	mg/kg	ug/kg								<1000											<1000				
56-38-2	Parathion (Ethyl Parathion)	SOLID	#N/A	mg/kg	ug/kg								<1000											<1000				
58667-63-3	Fiamprop	SOLID	#N/A	mg/kg	mg/kg																							

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Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	AEC18-LF-BWS209	AEC18-LF-BWS209	AEC18-LF-BWS210	AEC18-LF-BWS210	AEC18-LF-BWS211	AEC18-LF-BWS212	AEC18-LF-BWS212	AEC18-LF-BWS213	AEC18-LF-BWS214	AEC18-LF-BWS215	AEC18-LF-BWS215	AEC18-LF-BWS216	AEC18-LF-BWS217	AEC18-LF-BWS217	AEC18-LF-BWS218	AEC18-LF-BWS218	AEC18-LF-BWS219A (PFWS62A)	AEC18-LF-GW201	AEC18-LF-GW202	AEC18-LF-GW202
						0.20	1.60	0.60	1.60	0.70	1.00	4.20	0.80	1.00	0.30	3.40	2.20	0.50	2.50	0.60	3.60	0.20	1.70	0.80	2.70
Sample Top	Lookup soil	Sample Ref	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
98-06-6	Tert-Butylbenzene	SOLID - INITIAL	0.75	mg/kg	mg/kg																				
98-82-8	Isopropylbenzene	SOLID - INITIAL	0.27	mg/kg	mg/kg																				
99-09-2	3-Nitroaniline	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
99-65-0	M-Dinitrobenzene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
99-87-6	4-Isopropyltoluene	SOLID - INITIAL	54.06	mg/kg	mg/kg																				
P1374	xylene	SOLID - INITIAL	0.23	mg/kg	mg/kg																				
18540-29-9	chromium hexavalent	SOLID - INITIAL	0.02	mg/kg	mg/kg							<0.6					<0.3								
P1095	Cyanide Free	SOLID - INITIAL	#N/A	mg/kg	mg/kg												<0.5								
P1239	Complex Cyanide	SOLID - INITIAL	0.26	mg/kg	mg/kg												<0.5								
31508-00-6	PCB-118 2,3,4,4,5 - Pentachlorobiphenyl	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
32598-13-3	PCB 77	SOLID - INITIAL	6185.41	mg/kg	mg/kg																				
32598-14-4	PCB 105	SOLID - INITIAL	8940.63	mg/kg	mg/kg																				
32774-16-6	PCB 169	SOLID - INITIAL	37270.75	mg/kg	mg/kg																				
38380-08-4	PCB-156 2,3,3,4,4,5 - Hexachlorobiphenyl	SOLID - INITIAL	3172.26	mg/kg	mg/kg																				
39635-31-9	PCB 189	SOLID - INITIAL	270002.64	mg/kg	mg/kg																				
52663-72-6	PCB 167	SOLID - INITIAL	45853.03	mg/kg	mg/kg																				
57465-28-8	PCB 126	SOLID - INITIAL	8940.63	mg/kg	mg/kg																				
65510-44-3	PCB 123	SOLID - INITIAL	8940.63	mg/kg	mg/kg																				
69782-90-7	PCB 157	SOLID - INITIAL	45853.03	mg/kg	mg/kg																				
70362-50-4	PCB 81	SOLID - INITIAL	8940.63	mg/kg	mg/kg																				
74472-37-0	PCB 114	SOLID - INITIAL	8940.63	mg/kg	mg/kg																				
100-02-7	4-Nitrophenol	SOLID	0.04	mg/kg	ug/kg							<100													
100-41-4	Ethylbenzene	SOLID	0.53	mg/kg	ug/kg	<4						77.0				<80			<4		<4				
100-42-5	Styrene	SOLID	1.04	mg/kg	ug/kg							<100													
10061-01-5	cis 1,3-Dichloropropene	SOLID	#N/A	mg/kg	ug/kg							<100													
10061-02-6	trans 1,3-Dichloropropene	SOLID	#N/A	mg/kg	ug/kg							<100													
103-65-1	Propylbenzene	SOLID	0.28	mg/kg	ug/kg							<100													
104-51-8	n-Butylbenzene	SOLID	1.39	mg/kg	ug/kg							<110													
105-67-9	2,4-Dimethylphenol	SOLID	1.18	mg/kg	ug/kg							<100													
106-43-4	4-Chlorotoluene	SOLID	#N/A	mg/kg	ug/kg							<100													
106-44-5	4-Methylphenol	SOLID	0.53	mg/kg	ug/kg							<100													
106-46-7	1,4-Dichlorobenzene	SOLID	48.01	mg/kg	ug/kg							<100													
106-93-4	1,2-Dibromoethane	SOLID	#N/A	mg/kg	ug/kg							<100													
107-06-2	1,2-Dichloroethane	SOLID	#N/A	mg/kg	ug/kg							<50													
108-67-8	1,3,5-Trimethylbenzene	SOLID	0.15	mg/kg	ug/kg							<80													
108-86-1	Bromobenzene	SOLID	#N/A	mg/kg	ug/kg							<100													
108-88-3	Toluene	SOLID	0.88	mg/kg	ug/kg	<7						<70				<140			<7		<7				
108-90-7	Chlorobenzene	SOLID	4.46	mg/kg	ug/kg							<50													
108-95-2	Phenol	SOLID	0.04	mg/kg	ug/kg							<100													
111-44-4	Bis(2-chloroethyl)ether	SOLID	#N/A	mg/kg	ug/kg							<100													
111-91-1	Bis(2-chloroethoxy)methane	SOLID	0.01	mg/kg	ug/kg							<100													
117-81-7	Bis(2-ethylhexyl)phthalate	SOLID	18472.17	mg/kg	ug/kg							<100													
117-84-0	n-Diethylphthalate	SOLID	146035.35	mg/kg	ug/kg							<100													
118-74-1	Hexachlorobenzene	SOLID	0.23	mg/kg	ug/kg							<100													
120-82-1	1,2,4-Trichlorobenzene	SOLID	1.81	mg/kg	ug/kg							<100													
120-83-2	2,4-Dichlorophenol	SOLID	0.28	mg/kg	ug/kg							<100													
121-14-2	2,4-Dinitrotoluene	SOLID	0.00	mg/kg	ug/kg							<100													
124-48-1	Dibromochloromethane	SOLID	#N/A	mg/kg	ug/kg							<100													
127-18-4	Tetrachloroethene	SOLID	1.46	mg/kg	ug/kg							<50													
131-11-3	Dimethyl phthalate	SOLID	#N/A	mg/kg	ug/kg							<100													
132-64-9	Dibenzofuran	SOLID	0.49	mg/kg	ug/kg							480.0													
135-98-8	sec-Butylbenzene	SOLID	1.39	mg/kg	ug/kg							<100													
142-28-9	1,3-Dichloropropane	SOLID	#N/A	mg/kg	ug/kg							<70													
156-59-2	cis 1,2-Dichloroethene	SOLID	0.31	mg/kg	ug/kg							<60													
156-60-5	trans 1,2-Dichloroethene	SOLID	#N/A	mg/kg	ug/kg							<100													
198-55-0	Perylene	SOLID	206.28	mg/kg	ug/kg																				
39638-32-9	Bis(2-chloroisopropyl)ether	SOLID	#N/A	mg/kg	ug/kg							<100													
541-73-1	1,3-Dichlorobenzene	SOLID	145.60	mg/kg	ug/kg							<100													
56-23-5	Carbon Tetrachloride	SOLID	#N/A	mg/kg	ug/kg							<100													
563-58-6	1,1-Dichloropropene	SOLID	0.41	mg/kg	ug/kg							<100													
594-20-7	2,2-Dichloropropane	SOLID	#N/A	mg/kg	ug/kg							<100													
59-50-7	4-Chloro-3-methylphenol	SOLID	2.93	mg/kg	ug/kg							<100													
606-20-2	2,6-Dinitrotoluene	SOLID	1.48	mg/kg	ug/kg							<100													
621-64-7	n-Nitroso-n-dipropylamine	SOLID	#N/A	mg/kg	ug/kg							<100													
630-20-6	1,1,1,2-Tetrachloroethane	SOLID	#N/A	mg/kg	ug/kg							<100													
67-66-3	Chloroform	SOLID	#N/A	mg/kg	ug/kg							<80													
67-72-1	Hexachloroethane	SOLID	3.21	mg/kg	ug/kg							<100													
71-43-2	Benzene	SOLID	0.00	mg/kg	ug/kg	<9						<90				<180			<9		<9				

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Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	Hole Ref	AEC18-LF-BWS209	AEC18-LF-BWS209	AEC18-LF-BWS210	AEC18-LF-BWS210	AEC18-LF-BWS211	AEC18-LF-BWS212	AEC18-LF-BWS212	AEC18-LF-BWS213	AEC18-LF-BWS214	AEC18-LF-BWS215	AEC18-LF-BWS215	AEC18-LF-BWS216	AEC18-LF-BWS217	AEC18-LF-BWS217	AEC18-LF-BWS218	AEC18-LF-BWS218	AEC18-LF-BWS219A (PFWS62A)	AEC18-LF-GW201	AEC18-LF-GW202	AEC18-LF-GW202
						Sample Top	Lookup soil	Sample Ref	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
71-55-6	1,1,1-Trichloroethane	SOLID	#N/A	mg/kg	ug/kg								<70													
7440-39-3	Barium	SOLID	78.73	mg/kg	mg/kg													1.5								
74-83-9	Bromomethane	SOLID	#N/A	mg/kg	ug/kg								<100													
74-87-3	Chloromethane	SOLID	0.02	mg/kg	ug/kg								<70													
74-95-3	Dibromomethane	SOLID	#N/A	mg/kg	ug/kg								<90													
74-97-5	Bromochloromethane	SOLID	#N/A	mg/kg	ug/kg								<100													
75-00-3	Chloroethane	SOLID	#N/A	mg/kg	ug/kg								<100													
75-01-4	Vinyl Chloride	SOLID	#N/A	mg/kg	ug/kg								<60													
75-09-2	Dichloromethane	SOLID	0.03	mg/kg	ug/kg								<100													
75-15-0	Carbon Disulphide	SOLID	0.07	mg/kg	ug/kg								<70													
75-25-2	Bromoform	SOLID	#N/A	mg/kg	ug/kg								<100													
75-27-4	Bromodichloromethane	SOLID	#N/A	mg/kg	ug/kg								<70													
75-34-3	1,1-Dichloroethane	SOLID	0.01	mg/kg	ug/kg								<80													
75-35-4	1,1-Dichloroethene	SOLID	#N/A	mg/kg	ug/kg								<100													
75-69-4	Trichlorofluoromethane	SOLID	0.05	mg/kg	ug/kg								<60													
75-71-8	Dichlorodifluoromethane	SOLID	#N/A	mg/kg	ug/kg								<60													
77-47-4	Hexachlorocyclopentadiene	SOLID	#N/A	mg/kg	ug/kg								<100													
78-59-1	Isophorone	SOLID	22.26	mg/kg	ug/kg								<100													
78-87-5	1,2-Dichloropropane	SOLID	#N/A	mg/kg	ug/kg								<100													
79-00-5	1,1,2-Trichloroethane	SOLID	#N/A	mg/kg	ug/kg								<100													
79-01-6	Trichloroethene	SOLID	0.09	mg/kg	ug/kg								<90													
79-34-5	1,1,2,2-Tetrachloroethane	SOLID	2.66	mg/kg	ug/kg								<100													
84-66-2	Diethyl phthalate	SOLID	3.11	mg/kg	ug/kg								<100													
84-74-2	Di-N-Butyl Phthalate	SOLID	0.52	mg/kg	ug/kg								<100													
85-68-7	Butylbenzyl phthalate	SOLID	23.36	mg/kg	ug/kg								240.0													
86-74-8	Carbazole	SOLID	0.01	mg/kg	ug/kg								216.0													
87-61-6	1,2,3-Trichlorobenzene	SOLID	#N/A	mg/kg	ug/kg								<200													
87-68-3	Hexachlorobutadiene	SOLID	#N/A	mg/kg	ug/kg								<100													
87-86-5	Pentachlorophenol	SOLID	2.17	mg/kg	ug/kg								<100													
88-06-2	2,4,6-Trichlorophenol	SOLID	#N/A	mg/kg	ug/kg								<100													
88-75-5	2-Nitrophenol	SOLID	0.03	mg/kg	ug/kg								<100													
91-57-6	2-Methylnaphthalene (SVOC) DEFAULT	SOLID	0.84	mg/kg	ug/kg								732.0													
91-58-7	2-Chloronaphthalene	SOLID	0.92	mg/kg	ug/kg								<100													
95-47-6	Xylene	SOLID	0.23	mg/kg	ug/kg		<10						<100				<200			<10			<10			
95-48-7	2-Methylphenol	SOLID	0.54	mg/kg	ug/kg								<100													
95-49-8	2-Chlorotoluene	SOLID	#N/A	mg/kg	ug/kg								<90													
95-50-1	1,2-Dichlorobenzene	SOLID	40.42	mg/kg	ug/kg								<100													
95-57-8	2-Chlorophenol	SOLID	#N/A	mg/kg	ug/kg								<100													
95-63-6	1,2,4-Trimethylbenzene	SOLID	0.25	mg/kg	ug/kg								144.0													
95-95-4	2,4,5-Trichlorophenol	SOLID	60.93	mg/kg	ug/kg								<100													
96-12-8	1,2-Dibromo-3-chloropropane	SOLID	#N/A	mg/kg	ug/kg								<140													
96-18-4	1,2,3-Trichloropropane	SOLID	0.44	mg/kg	ug/kg								<160													
98-06-6	tert-Butylbenzene	SOLID	0.75	mg/kg	ug/kg								<140													
98-82-8	Isopropylbenzene	SOLID	0.27	mg/kg	ug/kg								<50													
98-95-3	Nitrobenzene	SOLID	0.00	mg/kg	ug/kg								<100													
99-87-6	4-Isopropyltoluene	SOLID	54.06	mg/kg	ug/kg								<100													
P1374	Xylene	SOLID	0.23	mg/kg	ug/kg		<10						<100				<200			<10			<10			
P1762	TPH Aromatic >C8-C10	SOLID	219.16	mg/kg	mg/kg																					
P1763	TPH Aromatic >C8-C10	SOLID	219.16	mg/kg	mg/kg																					
P1334	pH	SOLID	#N/A	mg/kg	pH																					
101-21-3	Chlorpropham	SOLID	#N/A	mg/kg	mg/kg																					
1014-70-6	Simetryn SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																					
1024-57-3	Heptachlor Epoxide	SOLID	#N/A	mg/kg	ug/kg																					
1031-07-8	Endosulphan Sulphate	SOLID	#N/A	mg/kg	ug/kg																					
117-18-0	Tecnazene	SOLID	#N/A	mg/kg	ug/kg																					
120-36-5	2,4-DP; (Dichlorprop)	SOLID	#N/A	mg/kg	mg/kg																					
121-75-5	Malathion	SOLID	#N/A	mg/kg	ug/kg																					
122-14-5	Fenitrothion	SOLID	#N/A	mg/kg	ug/kg																					
122-34-9	Simazine SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																					
122-42-9	Propham	SOLID	#N/A	mg/kg	mg/kg																					
122-88-3	4-CPA	SOLID	#N/A	mg/kg	mg/kg																					
13684-63-4	Phenmedipham	SOLID	#N/A	mg/kg	mg/kg																					
139-40-2	Propazine SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																					
1461-22-9	Tributyltin SUBCON i2	SOLID	#N/A	mg/kg	ug/kg																					
150-68-5	Monuron	SOLID	#N/A	mg/kg	mg/kg																					
15545-48-9	Chlortoluron	SOLID	#N/A	mg/kg	mg/kg																					
1582-09-8	Trifluralin SUBCON Alcontrol OCP	SOLID	#N/A	mg/kg	ug/kg																					

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Hole Ref	AEC18-LF-BWS209	AEC18-LF-BWS209	AEC18-LF-BWS210	AEC18-LF-BWS210	AEC18-LF-BWS211	AEC18-LF-BWS212	AEC18-LF-BWS212	AEC18-LF-BWS213	AEC18-LF-BWS214	AEC18-LF-BWS215	AEC18-LF-BWS215	AEC18-LF-BWS216	AEC18-LF-BWS217	AEC18-LF-BWS217	AEC18-LF-BWS218	AEC18-LF-BWS218	AEC18-LF-BWS219A (PFWS62A)	AEC18-LF-GW201	AEC18-LF-GW202	AEC18-LF-GW202	
Sample Top	0.20	1.60	0.60	1.60	0.70	1.00	4.20	0.80	1.00	0.30	3.40	2.20	0.50	2.50	0.60	3.60	0.20	1.70	0.80	2.70	
Lookup soil	TS	CwF	CWF	CWF	CwF	MADE GROUND	MADE GROUND	CwF	HEAD	MADE GROUND	MG-LF	MG-LF	MADE GROUND	MADE GROUND	CwF	CwF	MADE GROUND	HEAD	CwF	CwF	
Sample Ref	1	4	2	4	1	2	5		2	1	5	3	2	5	2	5	1	2	2	4	
Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	
1610-18-0	Prometon SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																
16118-49-3	Carbetamide	SOLID	#N/A	mg/kg	mg/kg																
1689-83-4	loxynil	SOLID	#N/A	mg/kg	mg/kg																
1689-84-5	Bromoxynil	SOLID	#N/A	mg/kg	mg/kg																
1702-17-6	Clopyralid	SOLID	#N/A	mg/kg	mg/kg																
1746-81-2	Monolinuron	SOLID	#N/A	mg/kg	mg/kg																
18691-97-9	Methabenzthiazuron	SOLID	#N/A	mg/kg	mg/kg																
1897-45-6	Chlorothalonil	SOLID	#N/A	mg/kg	ug/kg																
1912-24-9	Atrazine SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																
1918-00-9	Dicamba	SOLID	#N/A	mg/kg	mg/kg																
6607	Picloram	SOLID	#N/A	mg/kg	mg/kg																
1967-16-4	Chlorbufam	SOLID	#N/A	mg/kg	mg/kg																
1982-47-4	Chloroxuron	SOLID	#N/A	mg/kg	mg/kg																
19937-59-8	Metoxuron	SOLID	#N/A	mg/kg	mg/kg																
2132-70-9	p,p-Methoxychlor	SOLID	#N/A	mg/kg	ug/kg																
2274-67-1	Chlorpyrifos-methyl	SOLID	#N/A	mg/kg	ug/kg																
2303-17-5	Triallate	SOLID	#N/A	mg/kg	ug/kg																
2310-17-0	Phosalone	SOLID	#N/A	mg/kg	ug/kg																
23103-98-2	Pirimicarb	SOLID	#N/A	mg/kg	mg/kg																
24017-47-8	Triazophos	SOLID	#N/A	mg/kg	ug/kg																
25057-89-0	Bentazone	SOLID	#N/A	mg/kg	mg/kg																
2642-71-9	Azinphos-ethyl	SOLID	#N/A	mg/kg	ug/kg																
2921-88-2	Chlorpyrifos	SOLID	#N/A	mg/kg	ug/kg																
29232-93-7	Pirimiphos Methyl	SOLID	#N/A	mg/kg	ug/kg																
297-78-9	Telodrin	SOLID	#N/A	mg/kg	ug/kg																
298-00-0	Methyl Parathion	SOLID	#N/A	mg/kg	ug/kg																
298-01-1	Mevinphos	SOLID	#N/A	mg/kg	ug/kg																
298-04-4	Disulfoton SUBCON OCP Alcontrol	SOLID	#N/A	mg/kg	ug/kg																
29973-13-5	Ethiofencarb	SOLID	#N/A	mg/kg	mg/kg																
30667-99-3	o,p-Methoxychlor	SOLID	#N/A	mg/kg	ug/kg																
309-00-2	Aldrin SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																
31218-83-4	Propetamphos	SOLID	#N/A	mg/kg	ug/kg																
314-40-9	Bromacil	SOLID	#N/A	mg/kg	mg/kg																
319-84-6	alpha-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																
	beta-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																
319-85-7		SOLID	#N/A	mg/kg	ug/kg																
330-54-1	Diuron SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																
330-55-2	Linuron	SOLID	#N/A	mg/kg	mg/kg																
33213-65-9	Endosulphan II	SOLID	#N/A	mg/kg	ug/kg																
333-41-5	Diazinon	SOLID	#N/A	mg/kg	ug/kg																
34123-59-6	Isoproturon	SOLID	#N/A	mg/kg	mg/kg																
34205-21-5	Dimefuron	SOLID	#N/A	mg/kg	mg/kg																
3424-82-6	o,p-DDE	SOLID	#N/A	mg/kg	ug/kg																
35367-38-5	Diflubenazuron	SOLID	#N/A	mg/kg	mg/kg																
698836	Benazolin	SOLID	#N/A	mg/kg	mg/kg																
38260-54-7	Etrimpfos	SOLID	#N/A	mg/kg	ug/kg																
40483-25-2	Diclofop	SOLID	#N/A	mg/kg	mg/kg																
40487-42-1	Pendimethalin	SOLID	#N/A	mg/kg	ug/kg																
43121-43-3	Triadimefon	SOLID	#N/A	mg/kg	ug/kg																
465-73-6	Isodrin	SOLID	#N/A	mg/kg	ug/kg																
470-90-6	Chlorfenvinphos	SOLID	#N/A	mg/kg	ug/kg																
50-29-3	p,p-DDT SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																
50-31-7	2,3,6-TBA	SOLID	#N/A	mg/kg	mg/kg																
5103-71-9	cis-Chlordane SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																
5103-74-2	trans-Chlordane SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																
51630-58-1	Fenvalerate SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																
52315-07-8	Cypermethrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																
52645-53-1	Permethrin SUBCON RPS MH Pyrethroids	SOLID	#N/A	mg/kg	mg/kg																
52756-22-6	Flamprop-isopropyl	SOLID	#N/A	mg/kg	mg/kg																
52918-63-5	Deltamethrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																
53-19-0	o,p-TDE (DDD)	SOLID	#N/A	mg/kg	ug/kg																
55335-06-3	Triclopyr	SOLID	#N/A	mg/kg	mg/kg																
55-38-9	Fenthion	SOLID	#N/A	mg/kg	ug/kg																
563-12-2	Ethion	SOLID	#N/A	mg/kg	ug/kg																
56-38-2	Parathion (Ethyl Parathion)	SOLID	#N/A	mg/kg	ug/kg																
58667-63-3	Fiamprop	SOLID	#N/A	mg/kg	mg/kg																

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Hole Ref	AEC18-LF-BWS209	AEC18-LF-BWS209	AEC18-LF-BWS210	AEC18-LF-BWS210	AEC18-LF-BWS211	AEC18-LF-BWS212	AEC18-LF-BWS212	AEC18-LF-BWS213	AEC18-LF-BWS214	AEC18-LF-BWS215	AEC18-LF-BWS215	AEC18-LF-BWS216	AEC18-LF-BWS217	AEC18-LF-BWS217	AEC18-LF-BWS218	AEC18-LF-BWS218	AEC18-LF-BWS219A (PFWS62A)	AEC18-LF-GW201	AEC18-LF-GW202	AEC18-LF-GW202
Sample Top	0.20	1.60	0.60	1.60	0.70	1.00	4.20	0.80	1.00	0.30	3.40	2.20	0.50	2.50	0.60	3.60	0.20	1.70	0.80	2.70
Lookup soil	TS	CwF	CWF	CWF	CwF	MADE GROUND	MADE GROUND	CwF	HEAD	MADE GROUND	MG-LF	MG-LF	MADE GROUND	MADE GROUND	CwF	CwF	MADE GROUND	HEAD	CwF	CwF
Sample Ref	1	4	2	4	1	2	5		2	1	5	3	2	5	2	5	1	2	2	4

Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	
31508-00-6	PCB-118 2,3',4,4',5 - Pentachlorobiphenyl	SOLID - INITIAL	694.02	mg/kg	ng/g																	
32598-13-3	PCB 77	SOLID - INITIAL	6185.41	mg/kg	ng/g																	
32598-14-4	PCB 105	SOLID - INITIAL	8940.63	mg/kg	ng/g																	
3268-87-9	Octachlorodibenzo-p-dioxin	SOLID - INITIAL	91923.81	mg/kg	ng/g																	
32774-16-6	PCB 169	SOLID - INITIAL	37270.75	mg/kg	ng/g																	
3380-34-5	Triclosan	SOLID - INITIAL	0.33	mg/kg	mg/kg																	
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-P-Dioxin	SOLID - INITIAL	91923.81	mg/kg	ng/g																	
38380-08-4	PCB-156 2,3,3,4,4,5 - Hexachlorobiphenyl	SOLID - INITIAL	3172.26	mg/kg	ng/g																	
39001-02-0	Octachlorodibenzofuran	SOLID - INITIAL	46180.43	mg/kg	ng/g																	
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-P-Dioxin	SOLID - INITIAL	36595.53	mg/kg	ng/g																	
39635-31-9	PCB 189	SOLID - INITIAL	270002.64	mg/kg	ng/g																	
40321-76-4	1,2,3,7,8-Pentachlorodibenzo-P-Dioxin	SOLID - INITIAL	#N/A	mg/kg	ng/g																	
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	SOLID - INITIAL	393.06	mg/kg	ng/g																	
52645-53-1	Permethrin	SOLID - INITIAL	#N/A	mg/kg	ug/kg																	
52663-72-6	PCB 167	SOLID - INITIAL	45853.03	mg/kg	ng/g																	
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	SOLID - INITIAL	9648.46	mg/kg	ng/g																	
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	SOLID - INITIAL	964.85	mg/kg	ng/g																	
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	SOLID - INITIAL	715.25	mg/kg	ng/g																	
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	SOLID - INITIAL	715.25	mg/kg	ng/g																	
57465-28-8	PCB 126	SOLID - INITIAL	8940.63	mg/kg	ng/g																	
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-P-Dioxin	SOLID - INITIAL	91923.81	mg/kg	ng/g																	
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofura	SOLID - INITIAL	715.25	mg/kg	ng/g																	
62476-59-9	Acifluorfen	SOLID - INITIAL	#N/A	mg/kg	mg/kg																	
65510-44-3	PCB 123	SOLID - INITIAL	8940.63	mg/kg	ng/g																	
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	SOLID - INITIAL	715.25	mg/kg	ng/g																	
69782-90-7	PCB 157	SOLID - INITIAL	45853.03	mg/kg	ng/g																	
70362-50-4	PCB 81	SOLID - INITIAL	8940.63	mg/kg	ng/g																	
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	SOLID - INITIAL	715.25	mg/kg	ng/g																	
7085-19-0	mecoprop	SOLID - INITIAL	#N/A	mg/kg	mg/kg																	
72-43-5	Methoxychlor	SOLID - INITIAL	#N/A	mg/kg	ug/kg																	
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	SOLID - INITIAL	#N/A	mg/kg	ng/g																	
74472-37-0	PCB 114	SOLID - INITIAL	8940.63	mg/kg	ng/g																	
88-85-7	Dinoseb	SOLID - INITIAL	#N/A	mg/kg	mg/kg																	
892-20-6	Triphenyltin	SOLID - INITIAL	#N/A	mg/kg	mg/kg																	
P1330	BTEX	SOLID - INITIAL	0.00	mg/kg	ug/kg																<40	
P1354	TPH Aromatic >C6-C7	SOLID - INITIAL	0.05	mg/kg	ug/kg																	<10
P1355	TPH Aromatics > C7-C8	SOLID - INITIAL	#N/A	mg/kg	ug/kg																	<10
P1356	Aromatics >C8-10	SOLID - INITIAL	#N/A	mg/kg	ug/kg																	86.3
P1357	Aromatics >C10-12	SOLID - INITIAL	#N/A	mg/kg	ug/kg																	106.0
P1358	Aromatics >C12-16	SOLID - INITIAL	#N/A	mg/kg	ug/kg																	2340.0
P1359	Aromatics >C16-21	SOLID - INITIAL	#N/A	mg/kg	ug/kg																	11700.0
P1360	Aromatics >C21-35	SOLID - INITIAL	#N/A	mg/kg	ug/kg																	63800.0
P1362	Aromatics >C35-44	SOLID - INITIAL	#N/A	mg/kg	ug/kg																	26200.0
P1407	Aliphatics >C5-6	SOLID - INITIAL	#N/A	mg/kg	ug/kg																	<10
P1408	Aliphatics >C6-8	SOLID - INITIAL	#N/A	mg/kg	ug/kg																	25.0
P1409	Aliphatics >C8-10	SOLID - INITIAL	#N/A	mg/kg	ug/kg																	129.0
P1410	Aliphatics >C10-12	SOLID - INITIAL	#N/A	mg/kg	ug/kg																	159.0
P1411	Aliphatics >C12-16	SOLID - INITIAL	#N/A	mg/kg	ug/kg																	4830.0
P1412	Aliphatics >C16-21	SOLID - INITIAL	#N/A	mg/kg	ug/kg																	28400.0
P1413	Aliphatics >C21-35	SOLID - INITIAL	#N/A	mg/kg	ug/kg																	197000.0
P1415	Aliphatics >C35-44	SOLID - INITIAL	#N/A	mg/kg	ug/kg																	41600.0
15541-45-4	Bromate	SOLID - INITIAL	#N/A	mg/kg	mg/kg																	
16065-83-1	Trivalent Chromium	SOLID - INITIAL	#N/A	mg/kg	mg/kg																	<0.3
16887-00-6	Chloride	SOLID - INITIAL	268.18	mg/kg	mg/kg																	<20
16984-48-8	Fluoride	SOLID - INITIAL	0.41	mg/kg	mg/kg																	7.5
18496-25-8	Sulphide	SOLID - INITIAL	#VALUE!	mg/kg	mg/kg																	<0.1
24959-67-9	Bromide	SOLID - INITIAL	#VALUE!	mg/kg	mg/kg																	<0.6
7439-89-6	Iron	SOLID - INITIAL	44.05	mg/kg	mg/kg																	<0.19
7439-95-4	Magnesium	SOLID - INITIAL	0.00	mg/kg	mg/kg																	17.1
7439-98-7	Molybdenum	SOLID - INITIAL	0.10	mg/kg	mg/kg																	0.1
2023695	Potassium	SOLID - INITIAL	0.00	mg/kg	mg/kg																	18.9
7440-23-5	Sodium	SOLID - INITIAL	263.64	mg/kg	mg/kg																	19.9
7440-70-2	Calcium	SOLID - INITIAL	0.00	mg/kg	mg/kg																	631.0
P1238	Ammoniacal Nitrogen as N	SOLID - INITIAL	0.11	mg/kg	mg/kg																	<2
P1286	Manganese	SOLID - INITIAL	2.51	mg/kg	mg/kg																	<0.03
100-01-6	4-Nitroaniline	SOLID - INITIAL	0.00	mg/kg	ug/kg																	<100
101-55-3	4-Bromophenyl Phenyl Ether	SOLID - INITIAL	#N/A	mg/kg	ug/kg																	<100

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Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	Hole Ref																			
						AEC18-LF-BWS209	AEC18-LF-BWS209	AEC18-LF-BWS210	AEC18-LF-BWS210	AEC18-LF-BWS211	AEC18-LF-BWS212	AEC18-LF-BWS212	AEC18-LF-BWS213	AEC18-LF-BWS214	AEC18-LF-BWS215	AEC18-LF-BWS215	AEC18-LF-BWS216	AEC18-LF-BWS217	AEC18-LF-BWS217	AEC18-LF-BWS218	AEC18-LF-BWS218	AEC18-LF-BWS219A (PFWS62A)	AEC18-LF-GW201	AEC18-LF-GW202	AEC18-LF-GW202
						0.20	1.60	0.60	1.60	0.70	1.00	4.20	0.80	1.00	0.30	3.40	2.20	0.50	2.50	0.60	3.60	0.20	1.70	0.80	2.70
						TS	CwF	CWF	CWF	CwF	MADE GROUND	MADE GROUND	CwF	HEAD	MADE GROUND	MG-LF	MG-LF	MADE GROUND	MADE GROUND	CwF	CwF	MADE GROUND	HEAD	CwF	CwF
						1	4	2	4	1	2	5		2	1	5	3	2	5	2	5	1	2	2	4
						ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
103-33-3	Azobenzene	SOLID - INITIAL	0.38	mg/kg	ug/kg								<100												
106-47-8	4-Chloroaniline	SOLID - INITIAL	0.01	mg/kg	ug/kg								<100												
700-57-23	4-Chlorophenylphenylether	SOLID - INITIAL	#N/A	mg/kg	ug/kg								<100												
88-74-4	2-Nitroaniline	SOLID - INITIAL	0.01	mg/kg	ug/kg								<100												
99-09-2	3-Nitroaniline	SOLID - INITIAL	#N/A	mg/kg	ug/kg								<100												
994-05-8	Tertiary Amyl Methyl Ether	SOLID - INITIAL	#N/A	mg/kg	ug/kg								<100												
1336-36-6	PCB Total (WAC only)	SOLID	#N/A	mg/kg	mg/kg																				
P1330	BTEX (total) WAC	SOLID	#N/A	mg/kg	mg/kg																				

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G2 RTM Level 1 - Soils

Hole Ref	AEC18-LF-GW203	AEC18-LF-GW203	AEC18-LF-GW203	AEC18-LF-GW203	AEC18-LF-GW203B	AEC18-LF-GW203B	AEC18-LF-GW203B	AEC18-LF-GW204	AEC18-LF-GW204A	AEC18-LF-GW204A	AEC18-LF-GW204A	AEC18-LF-GW204A	AEC18-LF-GW205A	AEC18-LF-GW205A	AEC18-LF-GW205A	AEC18-LF-GW206	AEC18-LF-GW206	AEC18-LF-GW206	AEC18-LF-GW207A	AEC18-LF-GW207A	
Sample Top	0.10	11.00	5.60	6.70	0.35	4.70	6.40	0.50	0.30	3.40	6.40	9.50	1.70	10.20	5.00	0.55	3.70	7.60	1.50	11.70	
Lookup soil	TS	CHK	MG-LF	MG-LF	MADE GROUND	MG-LF	MG-LF	MADE GROUND	MG	MG-LF	MG-LF	MG-LF	MG	MG-LF	MG-LF	MG	MG-LF	MG-LF	MG	CHK	
Sample Ref	1	7	5	6	1	3	4	2	1	4	5	6	1	6	3	2	5	7	4	10	
Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
98-06-6	Tert-Butylbenzene	SOLID - INITIAL	0.75	mg/kg	mg/kg																
98-82-8	Isopropylbenzene	SOLID - INITIAL	0.27	mg/kg	mg/kg																
99-09-2	3-Nitroaniline	SOLID - INITIAL	#N/A	mg/kg	mg/kg																
99-65-0	M-Dinitrobenzene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																
99-87-6	4-Isopropyltoluene	SOLID - INITIAL	54.06	mg/kg	mg/kg																
P1374	xylene	SOLID - INITIAL	0.23	mg/kg	mg/kg																
18540-29-9	chromium hexavalent	SOLID - INITIAL	0.02	mg/kg	mg/kg											<0.6				<0.3	
P1095	Cyanide Free	SOLID - INITIAL	#N/A	mg/kg	mg/kg																<0.5
P1239	Complex Cyanide	SOLID - INITIAL	0.26	mg/kg	mg/kg																<0.5
31508-00-6	PCB-118 2,3,4,4,5 - Pentachlorobiphenyl	SOLID - INITIAL	#N/A	mg/kg	mg/kg																
32598-13-3	PCB 77	SOLID - INITIAL	6185.41	mg/kg	mg/kg																
32598-14-4	PCB 105	SOLID - INITIAL	8940.63	mg/kg	mg/kg																
32774-16-6	PCB 169	SOLID - INITIAL	37270.75	mg/kg	mg/kg																
38380-08-4	PCB-156 2,3,3,4,4,5 - Hexachlorobiphenyl	SOLID - INITIAL	3172.26	mg/kg	mg/kg																
39635-31-9	PCB 189	SOLID - INITIAL	270002.64	mg/kg	mg/kg																
52663-72-6	PCB 167	SOLID - INITIAL	45853.03	mg/kg	mg/kg																
57465-28-8	PCB 126	SOLID - INITIAL	8940.63	mg/kg	mg/kg																
65510-44-3	PCB 123	SOLID - INITIAL	8940.63	mg/kg	mg/kg																
69782-90-7	PCB 157	SOLID - INITIAL	45853.03	mg/kg	mg/kg																
70362-50-4	PCB 81	SOLID - INITIAL	8940.63	mg/kg	mg/kg																
74472-37-0	PCB 114	SOLID - INITIAL	8940.63	mg/kg	mg/kg																
100-02-7	4-Nitrophenol	SOLID	0.04	mg/kg	ug/kg			<100			<1000									<100	<100
100-41-4	Ethylbenzene	SOLID	0.53	mg/kg	ug/kg		<4	9.0	855.0		904000.0	1540.0			<80			<40	<4	<80	<4
100-42-5	Styrene	SOLID	1.04	mg/kg	ug/kg			<10			<200									<200	<10
10061-01-5	cis 1,3-Dichloropropene	SOLID	#N/A	mg/kg	ug/kg			<10			<200									<200	<10
10061-02-6	trans 1,3-Dichloropropene	SOLID	#N/A	mg/kg	ug/kg			<10			<200									<200	<10
103-65-1	Propylbenzene	SOLID	0.28	mg/kg	ug/kg			<10			26700.0									<200	<10
104-51-8	n-Butylbenzene	SOLID	1.39	mg/kg	ug/kg			<11			4050.0									<220	<11
105-67-9	2,4-Dimethylphenol	SOLID	1.18	mg/kg	ug/kg			<100			<1000									<100	<100
106-43-4	4-Chlorotoluene	SOLID	#N/A	mg/kg	ug/kg			<10			<200									<200	<10
106-44-5	4-Methylphenol	SOLID	0.53	mg/kg	ug/kg			<100			<1000									<100	<100
106-46-7	1,4-Dichlorobenzene	SOLID	48.01	mg/kg	ug/kg			<100			<1000									<100	<100
106-93-4	1,2-Dibromoethane	SOLID	#N/A	mg/kg	ug/kg			<10			<200									<200	<10
107-06-2	1,2-Dichloroethane	SOLID	#N/A	mg/kg	ug/kg			<5			<100									<100	<5
108-67-8	1,3,5-Trimethylbenzene	SOLID	0.15	mg/kg	ug/kg			<8			4010000.0									<160	<8
108-86-1	Bromobenzene	SOLID	#N/A	mg/kg	ug/kg			<10			<200									<200	<10
108-88-3	Toluene	SOLID	0.88	mg/kg	ug/kg		<7	<7	<140		35300.0	60.1						<70	<7	<140	<7
108-90-7	Chlorobenzene	SOLID	4.46	mg/kg	ug/kg			<5			<100									<100	<5
108-95-2	Phenol	SOLID	0.04	mg/kg	ug/kg			<100			<1000									<100	<100
111-44-4	Bis(2-chloroethyl)ether	SOLID	#N/A	mg/kg	ug/kg			<100			<1000									<100	<100
111-91-1	Bis(2-chloroethoxy)methane	SOLID	0.01	mg/kg	ug/kg			<100			<1000									<100	<100
117-81-7	Bis(2-ethylhexyl)phthalate	SOLID	18472.17	mg/kg	ug/kg			<100			149000.0									<100	<100
117-84-0	n-Dioctylphthalate	SOLID	146035.35	mg/kg	ug/kg			<100			<1000									8920.0	<100
118-74-1	Hexachlorobenzene	SOLID	0.23	mg/kg	ug/kg			<100			<1000									<100	<100
120-82-1	1,2,4-Trichlorobenzene	SOLID	1.81	mg/kg	ug/kg			<100			<1000									<100	<100
120-83-2	2,4-Dichlorophenol	SOLID	0.28	mg/kg	ug/kg			<100			<1000									<100	<100
121-14-2	2,4-Dinitrotoluene	SOLID	0.00	mg/kg	ug/kg			<100			<1000									<100	<100
124-48-1	Dibromochloromethane	SOLID	#N/A	mg/kg	ug/kg			<10			<200									<200	<10
127-18-4	Tetrachloroethene	SOLID	1.46	mg/kg	ug/kg			<5			<100									<100	<5
131-11-3	Dimethyl phthalate	SOLID	#N/A	mg/kg	ug/kg			<100			<1000									<100	<100
132-64-9	Dibenzofuran	SOLID	0.49	mg/kg	ug/kg			<100			<1000									<100	<100
135-98-8	sec-Butylbenzene	SOLID	1.39	mg/kg	ug/kg			<10			4790.0									<200	<10
142-28-9	1,3-Dichloropropane	SOLID	#N/A	mg/kg	ug/kg			<7			<140									<140	<7
156-59-2	cis 1,2-Dichloroethene	SOLID	0.31	mg/kg	ug/kg			<6			664.0									<120	<6
156-60-5	trans 1,2-Dichloroethene	SOLID	#N/A	mg/kg	ug/kg			<10			<200									<200	<10
198-55-0	Perylene	SOLID	206.28	mg/kg	ug/kg																
39638-32-9	Bis(2-chloroisopropyl)ether	SOLID	#N/A	mg/kg	ug/kg			<100			<1000									<100	<100
541-73-1	1,3-Dichlorobenzene	SOLID	145.60	mg/kg	ug/kg			<100			<1000									<100	<100
56-23-5	Carbon Tetrachloride	SOLID	#N/A	mg/kg	ug/kg			<10			<200									<200	<10
563-58-6	1,1-Dichloropropene	SOLID	0.41	mg/kg	ug/kg			<10			<200									<200	<10
594-20-7	2,2-Dichloropropane	SOLID	#N/A	mg/kg	ug/kg			<10			<200									<200	<10
59-50-7	4-Chloro-3-methylphenol	SOLID	2.93	mg/kg	ug/kg			<100			<1000									<100	<100
606-20-2	2,6-Dinitrotoluene	SOLID	1.48	mg/kg	ug/kg			<100			<1000									<100	<100
621-64-7	n-Nitroso-n-dipropylamine	SOLID	#N/A	mg/kg	ug/kg			<100			<1000									<100	<100
630-20-6	1,1,1,2-Tetrachloroethane	SOLID	#N/A	mg/kg	ug/kg			<10			<200									<200	<10
67-66-3	Chloroform	SOLID	#N/A	mg/kg	ug/kg			<8			<160									<160	<8
67-72-1	Hexachloroethane	SOLID	3.21	mg/kg	ug/kg			<100			<1000									<100	<100
71-43-2	Benzene	SOLID	0.00	mg/kg	ug/kg			<9			<180									<90	<9

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Hole Ref	AEC18-LF-GW203	AEC18-LF-GW203	AEC18-LF-GW203	AEC18-LF-GW203	AEC18-LF-GW203B	AEC18-LF-GW203B	AEC18-LF-GW203B	AEC18-LF-GW204	AEC18-LF-GW204A	AEC18-LF-GW204A	AEC18-LF-GW204A	AEC18-LF-GW204A	AEC18-LF-GW205A	AEC18-LF-GW205A	AEC18-LF-GW205A	AEC18-LF-GW206	AEC18-LF-GW206	AEC18-LF-GW206	AEC18-LF-GW207A	AEC18-LF-GW207A	
Sample Top	0.10	11.00	5.60	6.70	0.35	4.70	6.40	0.50	0.30	3.40	6.40	9.50	1.70	10.20	5.00	0.55	3.70	7.60	1.50	11.70	
Lookup soil	TS	CHK	MG-LF	MG-LF	MADE GROUND	MG-LF	MG-LF	MADE GROUND	MG	MG-LF	MG-LF	MG-LF	MG	MG-LF	MG-LF	MG	MG-LF	MG-LF	MG	CHK	
Sample Ref	1	7	5	6	1	3	4	2	1	4	5	6	1	6	3	2	5	7	4	10	
Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
1610-18-0	Prometon SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																
16118-49-3	Carbetamide	SOLID	#N/A	mg/kg	mg/kg																
1689-83-4	loxynil	SOLID	#N/A	mg/kg	mg/kg																<0.01
1689-84-5	Bromoxynil	SOLID	#N/A	mg/kg	mg/kg																<0.01
1702-17-6	Clopyralid	SOLID	#N/A	mg/kg	mg/kg																
1746-81-2	Monolinuron	SOLID	#N/A	mg/kg	mg/kg																
18691-97-9	Methabenzthiazuron	SOLID	#N/A	mg/kg	mg/kg																
1897-45-6	Chlorothalonil	SOLID	#N/A	mg/kg	ug/kg																<4000
1912-24-9	Atrazine SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																
1918-00-9	Dicamba	SOLID	#N/A	mg/kg	mg/kg																<0.01
6607	Picloram	SOLID	#N/A	mg/kg	mg/kg																
1967-16-4	Chlorbufam	SOLID	#N/A	mg/kg	mg/kg																
1982-47-4	Chloroxuron	SOLID	#N/A	mg/kg	mg/kg																
19937-59-8	Metoxuron	SOLID	#N/A	mg/kg	mg/kg																
2132-70-9	p,p-Methoxychlor	SOLID	#N/A	mg/kg	ug/kg																
2274-67-1	Chlorpyrifos-methyl	SOLID	#N/A	mg/kg	ug/kg																<1000
2303-17-5	Triallate	SOLID	#N/A	mg/kg	ug/kg																<1000
2310-17-0	Phosalone	SOLID	#N/A	mg/kg	ug/kg																<1000
23103-98-2	Pirimicarb	SOLID	#N/A	mg/kg	mg/kg																
24017-47-8	Triazophos	SOLID	#N/A	mg/kg	ug/kg																<1000
25057-89-0	Bentazone	SOLID	#N/A	mg/kg	mg/kg																<0.01
2642-71-9	Azinphos-ethyl	SOLID	#N/A	mg/kg	ug/kg																<1000
2921-88-2	Chlorpyrifos	SOLID	#N/A	mg/kg	ug/kg																<1000
29232-93-7	Pirimiphos Methyl	SOLID	#N/A	mg/kg	ug/kg																<1000
297-78-9	Telodrin	SOLID	#N/A	mg/kg	ug/kg																<1000
298-00-0	Methyl Parathion	SOLID	#N/A	mg/kg	ug/kg																<1000
298-01-1	Mevinphos	SOLID	#N/A	mg/kg	ug/kg																<1000
298-04-4	Disulfoton SUBCON OCP Alcontrol	SOLID	#N/A	mg/kg	ug/kg																<1000
29973-13-5	Ethiofencarb	SOLID	#N/A	mg/kg	mg/kg																
30667-99-3	o,p-Methoxychlor	SOLID	#N/A	mg/kg	ug/kg																<1000
309-00-2	Aldrin SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																<1000
31218-83-4	Propetamphos	SOLID	#N/A	mg/kg	ug/kg																<1000
314-40-9	Bromacil	SOLID	#N/A	mg/kg	mg/kg																
319-84-6	alpha-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																<1000
	beta-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																<1000
319-85-7		SOLID	#N/A	mg/kg	ug/kg																
330-54-1	Diuron SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																
330-55-2	Linuron	SOLID	#N/A	mg/kg	mg/kg																
33213-65-9	Endosulphan II	SOLID	#N/A	mg/kg	ug/kg																<1000
333-41-5	Diazinon	SOLID	#N/A	mg/kg	ug/kg																<1000
34123-59-6	Isoproturon	SOLID	#N/A	mg/kg	mg/kg																
34205-21-5	Dimefuron	SOLID	#N/A	mg/kg	mg/kg																
3424-82-6	o,p-DDE	SOLID	#N/A	mg/kg	ug/kg																<1000
35367-38-5	Diflufenzuron	SOLID	#N/A	mg/kg	mg/kg																
698836	Benazolin	SOLID	#N/A	mg/kg	mg/kg																
38260-54-7	Etrimephos	SOLID	#N/A	mg/kg	ug/kg																<1000
40483-25-2	Diclofop	SOLID	#N/A	mg/kg	mg/kg																<0.01
40487-42-1	Pendimethalin	SOLID	#N/A	mg/kg	ug/kg																<1000
43121-43-3	Triadimefon	SOLID	#N/A	mg/kg	ug/kg																<1000
465-73-6	Isodrin	SOLID	#N/A	mg/kg	ug/kg																<1000
470-90-6	Chlorfenvinphos	SOLID	#N/A	mg/kg	ug/kg																<1000
50-29-3	p,p-DDT SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																<1000
50-31-7	2,3,6-TBA	SOLID	#N/A	mg/kg	mg/kg																
5103-71-9	cis-Chlordane SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																<1000
5103-74-2	trans-Chlordane SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																<1000
51630-58-1	Fenvalerate SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																
52315-07-8	Cypermethrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																
52645-53-1	Permethrin SUBCON RPS MH Pyrethroids	SOLID	#N/A	mg/kg	mg/kg																
52756-22-6	Flamprop-isopropyl	SOLID	#N/A	mg/kg	mg/kg																
52918-63-5	Deltamethrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																
53-19-0	o,p-TDE (DDD)	SOLID	#N/A	mg/kg	ug/kg																<1000
55335-06-3	Triclopyr	SOLID	#N/A	mg/kg	mg/kg																<0.01
55-38-9	Fenthion	SOLID	#N/A	mg/kg	ug/kg																<1000
563-12-2	Ethion	SOLID	#N/A	mg/kg	ug/kg																<1000
56-38-2	Parathion (Ethyl Parathion)	SOLID	#N/A	mg/kg	ug/kg																<1000
58667-63-3	Fiamprop	SOLID	#N/A	mg/kg	mg/kg																

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Hole Ref	AEC18-LF-GW203	AEC18-LF-GW203	AEC18-LF-GW203	AEC18-LF-GW203	AEC18-LF-GW203B	AEC18-LF-GW203B	AEC18-LF-GW203B	AEC18-LF-GW204	AEC18-LF-GW204A	AEC18-LF-GW204A	AEC18-LF-GW204A	AEC18-LF-GW204A	AEC18-LF-GW205A	AEC18-LF-GW205A	AEC18-LF-GW205A	AEC18-LF-GW206	AEC18-LF-GW206	AEC18-LF-GW206	AEC18-LF-GW207A	AEC18-LF-GW207A
Sample Top	0.10	11.00	5.60	6.70	0.35	4.70	6.40	0.50	0.30	3.40	6.40	9.50	1.70	10.20	5.00	0.55	3.70	7.60	1.50	11.70
Lookup soil	TS	CHK	MG-LF	MG-LF	MADE GROUND	MG-LF	MG-LF	MADE GROUND	MG	MG-LF	MG-LF	MG-LF	MG	MG-LF	MG-LF	MG	MG-LF	MG-LF	MG	CHK
Sample Ref	1	7	5	6	1	3	4	2	1	4	5	6	1	6	3	2	5	7	4	10

Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	AEC18-LF-GW203	AEC18-LF-GW203	AEC18-LF-GW203	AEC18-LF-GW203	AEC18-LF-GW203B	AEC18-LF-GW203B	AEC18-LF-GW203B	AEC18-LF-GW204	AEC18-LF-GW204A	AEC18-LF-GW204A	AEC18-LF-GW204A	AEC18-LF-GW204A	AEC18-LF-GW205A	AEC18-LF-GW205A	AEC18-LF-GW205A	AEC18-LF-GW206	AEC18-LF-GW206	AEC18-LF-GW206	AEC18-LF-GW207A	AEC18-LF-GW207A		
31508-00-6	PCB-118 2,3',4,4',5 - Pentachlorobiphenyl	SOLID - INITIAL	694.02	mg/kg	ng/g																					<1	
32598-13-3	PCB 77	SOLID - INITIAL	6185.41	mg/kg	ng/g																						<0.2
32598-14-4	PCB 105	SOLID - INITIAL	8940.63	mg/kg	ng/g																						<0.49
3268-87-9	Octachlorodibenzo-p-dioxin	SOLID - INITIAL	91923.81	mg/kg	ng/g																						0.3
32774-16-6	PCB 169	SOLID - INITIAL	37270.75	mg/kg	ng/g																						<0.004
3380-34-5	Triclosan	SOLID - INITIAL	0.33	mg/kg	mg/kg																						<0.1
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-P-Dioxin	SOLID - INITIAL	91923.81	mg/kg	ng/g																						<0.0039
38380-08-4	PCB-156 2,3,3,4,4,5 - Hexachlorobiphenyl	SOLID - INITIAL	3172.26	mg/kg	ng/g																						<0.2
39001-02-0	Octachlorodibenzofuran	SOLID - INITIAL	46180.43	mg/kg	ng/g																						0.1
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-P-Dioxin	SOLID - INITIAL	36595.53	mg/kg	ng/g																						<0.0014
39635-31-9	PCB 189	SOLID - INITIAL	270002.64	mg/kg	ng/g																						<0.0058
40321-76-4	1,2,3,7,8-Pentachlorodibenzo-P-Dioxin	SOLID - INITIAL	#N/A	mg/kg	ng/g																						<0.0014
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	SOLID - INITIAL	393.06	mg/kg	ng/g																						<0.0013
52645-53-1	Permethrin	SOLID - INITIAL	#N/A	mg/kg	ug/kg																						<1000
52663-72-6	PCB 167	SOLID - INITIAL	45853.03	mg/kg	ng/g																						<0.071
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	SOLID - INITIAL	9648.46	mg/kg	ng/g																						<0.0037
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	SOLID - INITIAL	964.85	mg/kg	ng/g																						<0.0014
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	SOLID - INITIAL	715.25	mg/kg	ng/g																						<0.0014
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	SOLID - INITIAL	715.25	mg/kg	ng/g																						<0.0015
57465-28-8	PCB 126	SOLID - INITIAL	8940.63	mg/kg	ng/g																						<0.002
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-P-Dioxin	SOLID - INITIAL	91923.81	mg/kg	ng/g																						<0.0014
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofura	SOLID - INITIAL	715.25	mg/kg	ng/g																						<0.0015
62476-59-9	Acifluorfen	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						<0.01
65510-44-3	PCB 123	SOLID - INITIAL	8940.63	mg/kg	ng/g																						<0.042
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	SOLID - INITIAL	715.25	mg/kg	ng/g																						<0.0037
69782-90-7	PCB 157	SOLID - INITIAL	45853.03	mg/kg	ng/g																						<0.0031
70362-50-4	PCB 81	SOLID - INITIAL	8940.63	mg/kg	ng/g																						<0.014
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	SOLID - INITIAL	715.25	mg/kg	ng/g																						<0.0015
7085-19-0	mecoprop	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						<0.01
72-43-5	Methoxychlor	SOLID - INITIAL	#N/A	mg/kg	ug/kg																						<1000
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	SOLID - INITIAL	#N/A	mg/kg	ng/g																						<0.0015
74472-37-0	PCB 114	SOLID - INITIAL	8940.63	mg/kg	ng/g																						<0.047
88-85-7	Dinoseb	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						<0.01
892-20-6	Triphenyltin	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						<0.05
P1330	BTEX	SOLID - INITIAL	0.00	mg/kg	ug/kg			<40	4870.0	4580000.0	9080.0							<400								<800	<40
P1354	TPH Aromatic >C6-C7	SOLID - INITIAL	0.05	mg/kg	ug/kg			<10	<10		<50							<10									<10
P1355	TPH Aromatics > C7-C8	SOLID - INITIAL	#N/A	mg/kg	ug/kg			<10	16.8		<50							11.7									<10
P1356	Aromatics >C8-10	SOLID - INITIAL	#N/A	mg/kg	ug/kg			131.0	2700.0		9840.0								956.0								<10
P1357	Aromatics >C10-12	SOLID - INITIAL	#N/A	mg/kg	ug/kg			20.4	922.0		6210.0								1580.0								<10
P1358	Aromatics >C12-16	SOLID - INITIAL	#N/A	mg/kg	ug/kg			<100	18600.0	2750000.0	9790.0								1360.0								<100
P1359	Aromatics >C16-21	SOLID - INITIAL	#N/A	mg/kg	ug/kg			2630.0	205000.0	485000.0	39600.0								21600.0								<100
P1360	Aromatics >C21-35	SOLID - INITIAL	#N/A	mg/kg	ug/kg			16900.0	991000.0	1770000.0	186000.0								111000.0								<100
P1362	Aromatics >C35-44	SOLID - INITIAL	#N/A	mg/kg	ug/kg			1760.0	123000.0	266000.0	57300.0								40800.0								<100
P1407	Aliphatics >C5-6	SOLID - INITIAL	#N/A	mg/kg	ug/kg			<10	154.0		<50								31.2								<10
P1408	Aliphatics >C6-8	SOLID - INITIAL	#N/A	mg/kg	ug/kg			20.4	646.0		636.0								156.0								<10
P1409	Aliphatics >C8-10	SOLID - INITIAL	#N/A	mg/kg	ug/kg			45.6	1350.0		14800.0								1430.0								<10
P1410	Aliphatics >C10-12	SOLID - INITIAL	#N/A	mg/kg	ug/kg			31.2	1380.0		9310.0								2370.0								<10
P1411	Aliphatics >C12-16	SOLID - INITIAL	#N/A	mg/kg	ug/kg			<100	13500.0	2230000.0	15400.0								1380.0								<100
P1412	Aliphatics >C16-21	SOLID - INITIAL	#N/A	mg/kg	ug/kg			2890.0	123000.0	1250000.0	59500.0								11500.0								<100
P1413	Aliphatics >C21-35	SOLID - INITIAL	#N/A	mg/kg	ug/kg			25900.0	471000.0	2550000.0	266000.0								103000.0								<100
P1415	Aliphatics >C35-44	SOLID - INITIAL	#N/A	mg/kg	ug/kg			2800.0	39900.0	396000.0	48500.0								23600.0								<100
15541-45-4	Bromate	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
16065-83-1	Trivalent Chromium	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						<0.3
16887-00-6	Chloride	SOLID - INITIAL	268.18	mg/kg	mg/kg																						52.0
16984-48-8	Fluoride	SOLID - INITIAL																									

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Hole Ref	AEC18-LF-GW203	AEC18-LF-GW203	AEC18-LF-GW203	AEC18-LF-GW203	AEC18-LF-GW203B	AEC18-LF-GW203B	AEC18-LF-GW203B	AEC18-LF-GW204	AEC18-LF-GW204A	AEC18-LF-GW204A	AEC18-LF-GW204A	AEC18-LF-GW204A	AEC18-LF-GW205A	AEC18-LF-GW205A	AEC18-LF-GW205A	AEC18-LF-GW206	AEC18-LF-GW206	AEC18-LF-GW206	AEC18-LF-GW207A	AEC18-LF-GW207A		
Sample Top	0.10	11.00	5.60	6.70	0.35	4.70	6.40	0.50	0.30	3.40	6.40	9.50	1.70	10.20	5.00	0.55	3.70	7.60	1.50	11.70		
Lookup soil	TS	CHK	MG-LF	MG-LF	MADE GROUND	MG-LF	MG-LF	MADE GROUND	MG	MG-LF	MG-LF	MG-LF	MG	MG-LF	MG-LF	MG	MG-LF	MG-LF	MG	CHK		
Sample Ref	1	7	5	6	1	3	4	2	1	4	5	6	1	6	3	2	5	7	4	10		
Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES		
103-33-3	Azobenzene	SOLID - INITIAL	0.38	mg/kg	ug/kg			<100												<100	<100	
106-47-8	4-Chloroaniline	SOLID - INITIAL	0.01	mg/kg	ug/kg			<100													<100	<100
700-57-23	4-Chlorophenylphenylether	SOLID - INITIAL	#N/A	mg/kg	ug/kg			<100													<100	<100
88-74-4	2-Nitroaniline	SOLID - INITIAL	0.01	mg/kg	ug/kg			<100													<100	<100
99-09-2	3-Nitroaniline	SOLID - INITIAL	#N/A	mg/kg	ug/kg			<100													<100	<100
994-05-8	Tertiary Amyl Methyl Ether	SOLID - INITIAL	#N/A	mg/kg	ug/kg			<10													<200	<10
1336-36-6	PCB Total (WAC only)	SOLID	#N/A	mg/kg	mg/kg																	
P1330	BTEX (total) WAC	SOLID	#N/A	mg/kg	mg/kg																	

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Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	Hole Ref																PFPC20	PFPC35A	PFPC47	PFPC56																						
						AEC18-LF-GW207A	AEC18-LF-GW207A	AEC18-LF-LW201	AEC18-LF-LW201	AEC18-LF-LW202	AEC18-LF-LW202	AEC18-LF-LW202	AEC18-LF-LW202	AEC18-LF-LW202	AEC18-LF-LW203	AEC18-LF-LW203	AEC18-LF-LW203	AEC18-LF-LW204	AEC18-LF-LW204	AEC18-LF-LW204	AEC18-LF-LW205					AEC18-LF-LW205																					
						3.60	6.80	13.70	3.20	0.30	10.10	6.50	7.60	1.00	10.00	4.70	1.70	12.20	7.80	1.60	4.50	0.70	5.80	0.50	0.60																						
						MG-LF	CwF	MG-LF	MG-LF	MADE GROUND	HEAD	MADE GROUND	MADE GROUND	MADE GROUND	MG-LF	MG-LF	MG-LF	HEAD	MG-LF	MADE GROUND	MADE GROUND	MG	MG	MG	MG																						
						5	7	8	4	1	7	4	5	2	6	4	3	9	6	4	7	2	7	2	2																						
						ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES																						
100-41-4	Ethylbenzene	SOLID - INITIAL	0.53	mg/kg	mg/kg																					<0.01	<0.01	<0.01	<0.01																		
108-88-3	Toluene	SOLID - INITIAL	0.88	mg/kg	mg/kg																						<0.01	<0.01	<0.01	<0.01																	
120-12-7	Anthracene	SOLID - INITIAL	0.16	mg/kg	mg/kg																						<0.02	<0.02	<0.02	<0.02																	
129-00-0	Pyrene	SOLID - INITIAL	1.88	mg/kg	mg/kg																						<0.07	<0.07	<0.07	<0.07																	
1330-20-7	Xylene	SOLID - INITIAL	0.23	mg/kg	mg/kg																																										
191-24-2	Benzo(g,h,i)perylene	SOLID - INITIAL	2.42	mg/kg	mg/kg																						<0.05	<0.05	<0.05	<0.05																	
193-39-5	Indeno(1,2,3-cd)pyrene	SOLID - INITIAL	0.51	mg/kg	mg/kg																						<0.03	<0.03	<0.03	<0.03																	
205-99-2	Benzo(b)fluoranthene	SOLID - INITIAL	0.61	mg/kg	mg/kg																						<0.05	<0.05	<0.05	<0.05																	
206-44-0	Fluoranthene	SOLID - INITIAL	0.01	mg/kg	mg/kg																						<0.08	<0.08	<0.08	<0.08																	
207-08-9	Benzo(k)fluoranthene	SOLID - INITIAL	0.86	mg/kg	mg/kg																						<0.07	<0.07	<0.07	<0.07																	
208-96-8	Acenaphthylene	SOLID - INITIAL	1.01	mg/kg	mg/kg																						<0.01	<0.01	<0.01	<0.01																	
218-01-9	Chrysene	SOLID - INITIAL	6.38	mg/kg	mg/kg																						<0.06	<0.06	<0.06	<0.06																	
50-32-8	Benzo(a)pyrene	SOLID - INITIAL	0.07	mg/kg	mg/kg																						<0.04	<0.04	<0.04	<0.04																	
53-70-3	Dibenzo(a,h)anthracene	SOLID - INITIAL	10.80	mg/kg	mg/kg																						<0.04	<0.04	<0.04	<0.04																	
56-55-3	Benzo(a)anthracene	SOLID - INITIAL	4.50	mg/kg	mg/kg																						<0.04	<0.04	<0.04	<0.04																	
57-12-5	Cyanide	SOLID - INITIAL	0.26	mg/kg	mg/kg																						<0.04	<0.04	<0.04	<0.04																	
71-43-2	Benzene	SOLID - INITIAL	0.0043	mg/kg	mg/kg																						<0.01	<0.01	<0.01	<0.01																	
7439-92-1	Lead	SOLID - INITIAL	10.00	mg/kg	mg/kg																						451.0	20.9	125.0	92.0	100.0	13.5	122.0	1570.0	15.3	36.5	160.0	24.2	14.5	749.0	46.1	489.0	7.0	43.0	31.0	4.0	
7439-97-6	Mercury	SOLID - INITIAL	0.50	mg/kg	mg/kg																							<1.4	<0.14	<0.14	<0.14	5.1	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	0.5	<0.17	<0.17	0.6	
7440-02-0	Nickel	SOLID - INITIAL	10.01	mg/kg	mg/kg																							99.1	24.4	29.4	25.0	26.0	33.3	27.1	24.8	22.8	13.0	27.9	32.9	22.7	206.0	31.3	46.3	4.0	24.0	53.0	4.0
7440-36-0	Antimony	SOLID - INITIAL	1.26	mg/kg	mg/kg																							13.3	<0.6	<0.6	13.2	0.6	1.5	3.7	<0.6	2.7	<0.6	41.5	<0.6	4.1							
7440-38-2	Arsenic	SOLID - INITIAL	5.00	mg/kg	mg/kg																							37.6	4.5	20.7	15.4	16.8	19.1	12.3	8.1	18.4	8.2	15.6	9.8	17.4	43.0	15.0	27.7	<1	5.0	3.0	<1
7440-41-7	Beryllium	SOLID - INITIAL	5.04	mg/kg	mg/kg																							6.3	0.8	1.0	0.9	1.6	1.1	1.1	1.3	0.7	0.4	1.2	2.0	1.3	<0.1	1.0	2.0	<1			
7440-42-8	Boron	SOLID - INITIAL	8.69	mg/kg	mg/kg																							40.9	<1	3.8	5.4	1.5	14.4	2.1	25.4	<1	2.2	4.3	1.4	<1	2.2	1.3	3.3	<1.0	1.6	<1.0	<1.0
7440-43-9	Cadmium	SOLID - INITIAL	0.50	mg/kg	mg/kg																							1.4	0.2	2.1	0.7	<0.02	<0.02	0.4	1.2	<0.02	0.1	0.5	0.2	<0.02	4.9	0.2	0.5	<0.5	2.1	2.2	<0.5
7440-47-3	Chromium	SOLID - INITIAL	315.49	mg/kg	mg/kg																							41.7	15.7	19.0	10.5	10.2	26.7	20.8	23.4	6.4	4.2	17.3	22.6	38.3	2260.0	20.8	12.2	5.0	25.0	45.0	4.0
7440-50-8	Copper	SOLID - INITIAL	1002.92	mg/kg	mg/kg																							135.0	19.5	34.7	56.9	145.0	22.7	34.7	105.0	10.4	22.3	165.0	23.5	20.5	395.0	48.1	54.3	7.0	21.0	24.0	4.0
7440-62-2	Vanadium	SOLID - INITIAL	1.01	mg/kg	mg/kg																							47.5	34.7	47.7	25.7	42.3	58.8	54.0	45.1	35.4	11.9	35.8	45.4	67.9	24.1	61.8	42.3				
7440-66-6	Zinc	SOLID - INITIAL	2507.30	mg/kg	mg/kg																							799.0	57.6	208.0	158.0	195.0	83.0	436.0	377.0	60.8	88.9	380.0	95.2	49.6	1530.0	98.7	275.0	22.0	127.0	84.0	20.0
7782-49-2	Selenium	SOLID - INITIAL	0.50	mg/kg	mg/kg																							<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.0		
83-32-9	Acenaphthene	SOLID - INITIAL	965.39	mg/kg	mg/kg																							<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		
85-01-8	Phenanthrene	SOLID - INITIAL	3.35	mg/kg	mg/kg																							<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03		
86-73-7	Fluorene	SOLID - INITIAL	1.76	mg/kg	mg/kg																							<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		
91-20-3	Napthalene	SOLID - INITIAL	0.08	mg/kg	mg/kg																							<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	
P1186	Phenol	SOLID - INITIAL	0.04	mg/kg	mg/kg																							<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	
P1310	Pah, Total	SOLID - INITIAL	#N/A	mg/kg	mg/kg																																										
P1334	pH	SOLID - INITIAL	#N/A	mg/kg	mg/kg																							7.8	4.9	10.4	7.7	11.0	8.5	8.6	8.3	8.4	8.7	7.8	7.9	7.6							

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Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	AEC18-LF-GW207A	AEC18-LF-GW207A	AEC18-LF-LW201	AEC18-LF-LW201	AEC18-LF-LW202	AEC18-LF-LW202	AEC18-LF-LW202	AEC18-LF-LW202	AEC18-LF-LW202	AEC18-LF-LW203	AEC18-LF-LW203	AEC18-LF-LW203	AEC18-LF-LW204	AEC18-LF-LW204	AEC18-LF-LW204	AEC18-LF-LW205	AEC18-LF-LW205	PF20	PF35A	PF47	PF56	
						ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
98-06-6	Tert-Butylbenzene	SOLID - INITIAL	0.75	mg/kg	mg/kg																						
98-82-8	Isopropylbenzene	SOLID - INITIAL	0.27	mg/kg	mg/kg																						
99-09-2	3-Nitroaniline	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
99-65-0	m-Dinitrobenzene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
99-87-6	4-Isopropyltoluene	SOLID - INITIAL	54.06	mg/kg	mg/kg																						
P1374	xylene	SOLID - INITIAL	0.23	mg/kg	mg/kg																						
18540-29-9	chromium hexavalent	SOLID - INITIAL	0.02	mg/kg	mg/kg													<0.6				<0.6	<1	<1	<1	<1	
P1095	Cyanide Free	SOLID - INITIAL	#N/A	mg/kg	mg/kg	<1																					
P1239	Complex Cyanide	SOLID - INITIAL	0.26	mg/kg	mg/kg	2.7																					
31508-00-6	PCB-118 2,3,4,4,5 - Pentachlorobiphenyl	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
32598-13-3	PCB 77	SOLID - INITIAL	6185.41	mg/kg	mg/kg																						
32598-14-4	PCB 105	SOLID - INITIAL	8940.63	mg/kg	mg/kg																						
32774-16-6	PCB 169	SOLID - INITIAL	37270.75	mg/kg	mg/kg																						
38380-08-4	PCB-156 2,3,3,4,4,5 - Hexachlorobiphenyl	SOLID - INITIAL	3172.26	mg/kg	mg/kg																						
39635-31-9	PCB 189	SOLID - INITIAL	270002.64	mg/kg	mg/kg																						
52663-72-6	PCB 167	SOLID - INITIAL	45853.03	mg/kg	mg/kg																						
57465-28-8	PCB 126	SOLID - INITIAL	8940.63	mg/kg	mg/kg																						
65510-44-3	PCB 123	SOLID - INITIAL	8940.63	mg/kg	mg/kg																						
69782-90-7	PCB 157	SOLID - INITIAL	45853.03	mg/kg	mg/kg																						
70362-50-4	PCB 81	SOLID - INITIAL	8940.63	mg/kg	mg/kg																						
74472-37-0	PCB 114	SOLID - INITIAL	8940.63	mg/kg	mg/kg																						
100-02-7	4-Nitrophenol	SOLID	0.04	mg/kg	ug/kg	<100			<100					<100				<100				<100					
100-41-4	Ethylbenzene	SOLID	0.53	mg/kg	ug/kg	<80	21.3	<40		<4	<4	<80	18.2	363.0	<4	<4	232.0	<4	<80								
100-42-5	Styrene	SOLID	1.04	mg/kg	ug/kg	<200		<100				<200			<100			<200				<200					
10061-01-5	cis 1,3-Dichloropropene	SOLID	#N/A	mg/kg	ug/kg	<200		<100				<200			<100			<200				<200					
10061-02-6	trans 1,3-Dichloropropene	SOLID	#N/A	mg/kg	ug/kg	<200		<100				<200			<100			<200				<200					
103-65-1	Propylbenzene	SOLID	0.28	mg/kg	ug/kg	<200		<100				<200			<100			4580.0				<200					
104-51-8	n-Butylbenzene	SOLID	1.39	mg/kg	ug/kg	<220		<110				<220			<110			<220				<220					
105-67-9	2,4-Dimethylphenol	SOLID	1.18	mg/kg	ug/kg	<100		<100				<100			<100			<100				<100					
106-43-4	4-Chlorotoluene	SOLID	#N/A	mg/kg	ug/kg	<200		<100				<200			<100			<200				<200					
106-44-5	4-Methylphenol	SOLID	0.53	mg/kg	ug/kg	<100		<100				<100			<100			<100				<100					
106-46-7	1,4-Dichlorobenzene	SOLID	48.01	mg/kg	ug/kg	<100		<100				<100			<100			<100				<100					
106-93-4	1,2-Dibromoethane	SOLID	#N/A	mg/kg	ug/kg	<200		<100				<200			<100			<200				<200					
107-06-2	1,2-Dichloroethane	SOLID	#N/A	mg/kg	ug/kg	<100		<50				<100			<50			<100				<100					
108-67-8	1,3,5-Trimethylbenzene	SOLID	0.15	mg/kg	ug/kg	<160		247.0				<160			<8			19100.0				<160					
108-86-1	Bromobenzene	SOLID	#N/A	mg/kg	ug/kg	<200		<100				<200			<100			<200				<200					
108-88-3	Toluene	SOLID	0.88	mg/kg	ug/kg	<140	<7	<70		<7	<7	<140	<7	<140	<7	<7	<140	<7	<140			<140					
108-90-7	Chlorobenzene	SOLID	4.46	mg/kg	ug/kg	<100		<50				<100			<50			<100				<100					
108-95-2	Phenol	SOLID	0.04	mg/kg	ug/kg	<100		<100				<100			<100			768.0				<100					
111-44-4	Bis(2-chloroethyl)ether	SOLID	#N/A	mg/kg	ug/kg	<100		<100				<100			<100			<100				<100					
111-91-1	Bis(2-chloroethoxy)methane	SOLID	0.01	mg/kg	ug/kg	<100		<100				<100			<100			1890.0				<100					
117-81-7	Bis(2-ethylhexyl)phthalate	SOLID	18472.17	mg/kg	ug/kg	<100		1710.0				2890.0			<100			13300.0				<100					
117-84-0	n-Dioctylphthalate	SOLID	146035.35	mg/kg	ug/kg	<100		<100				290.0			<100			3010.0				<100					
118-74-1	Hexachlorobenzene	SOLID	0.23	mg/kg	ug/kg	<100	<50	<100				<100	<50		<100			<100				<100					
120-82-1	1,2,4-Trichlorobenzene	SOLID	1.81	mg/kg	ug/kg	<100		<100				<100			<100			<100				<100					
120-83-2	2,4-Dichlorophenol	SOLID	0.28	mg/kg	ug/kg	<100		<100				<100			<100			2060.0				<100					
121-14-2	2,4-Dinitrotoluene	SOLID	0.00	mg/kg	ug/kg	<100		<100				<100			<100			<100				<100					
124-48-1	Dibromochloromethane	SOLID	#N/A	mg/kg	ug/kg	<200		<100				<200			<100			<200				<200					
127-18-4	Tetrachloroethene	SOLID	1.46	mg/kg	ug/kg	<100		<50				<100			<50			<100				<100					
131-11-3	Dimethyl phthalate	SOLID	#N/A	mg/kg	ug/kg	<100		<100				<100			<100			<100				<100					
132-64-9	Dibenzofuran	SOLID	0.49	mg/kg	ug/kg	<100		<100				452.0			<100			832.0				<100					
135-98-8	sec-Butylbenzene	SOLID	1.39	mg/kg	ug/kg	<200		<100				<200			<100			6410.0				<200					
142-28-9	1,3-Dichloropropane	SOLID	#N/A	mg/kg	ug/kg	<140		<70				<140			<70			<140				<140					
156-59-2	cis 1,2-Dichloroethene	SOLID	0.31	mg/kg	ug/kg	<120		<60				<120			<60			<120				<120					
156-60-5	trans 1,2-Dichloroethene	SOLID	#N/A	mg/kg	ug/kg	<200		<100				<200			<100			<200				<200					
198-55-0	Perylene	SOLID	206.28	mg/kg	ug/kg																						
39638-32-9	Bis(2-chloroisopropyl)ether	SOLID	#N/A	mg/kg	ug/kg	<100		<100				<100			<100			<100				<100					
541-73-1	1,3-Dichlorobenzene	SOLID	145.60	mg/kg	ug/kg	<100		<100				<															

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G2 RTM Level 1 - Soils

Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	Hole Ref																PFCP20	PFCP35A	PFCP47	PFCP56	
						AEC18-LF-GW207A	AEC18-LF-GW207A	AEC18-LF-LW201	AEC18-LF-LW201	AEC18-LF-LW202	AEC18-LF-LW202	AEC18-LF-LW202	AEC18-LF-LW202	AEC18-LF-LW202	AEC18-LF-LW203	AEC18-LF-LW203	AEC18-LF-LW203	AEC18-LF-LW204	AEC18-LF-LW204	AEC18-LF-LW204	AEC18-LF-LW205					AEC18-LF-LW205
						Sample Top	3.60	6.80	13.70	3.20	0.30	10.10	6.50	7.60	1.00	10.00	4.70	1.70	12.20	7.80	1.60	4.50	0.70	5.80	0.50	0.60
						Lookup soil	MG-LF	CwF	MG-LF	MG-LF	MADE GROUND	HEAD	MADE GROUND	MADE GROUND	MADE GROUND	MG-LF	MG-LF	MG-LF	HEAD	MG-LF	MADE GROUND	MADE GROUND	MG	MG	MG	MG
						Sample Ref	5	7	8	4	1	7	4	5	2	6	4	3	9	6	4	7	2	7	2	2
						ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
71-55-6	1,1,1-Trichloroethane	SOLID	#N/A	mg/kg	ug/kg	<140				<70					<140			<7		<140			<140			
7440-39-3	Barium	SOLID	78.73	mg/kg	mg/kg																		51.0	1180.0	84.0	77.0
74-83-9	Bromomethane	SOLID	#N/A	mg/kg	ug/kg	<200				<100					<200			<10		<200			<200			
74-87-3	Chloromethane	SOLID	0.02	mg/kg	ug/kg	<140				<70					<140			<7		<140			<140			
74-95-3	Dibromomethane	SOLID	#N/A	mg/kg	ug/kg	<180				<90					<180			<9		<180			<180			
74-97-5	Bromochloromethane	SOLID	#N/A	mg/kg	ug/kg	<200				<100					<200			<10		<200			<200			
75-00-3	Chloroethane	SOLID	#N/A	mg/kg	ug/kg	<200				<100					<200			<10		<200			<200			
75-01-4	Vinyl Chloride	SOLID	#N/A	mg/kg	ug/kg	<120				<60					<120			<6		<120			<120			
75-09-2	Dichloromethane	SOLID	0.03	mg/kg	ug/kg	<200				<100					<200			<10		<200			341.0			
75-15-0	Carbon Disulphide	SOLID	0.07	mg/kg	ug/kg	<140				<70					<140			<7		935.0			<140			
75-25-2	Bromoform	SOLID	#N/A	mg/kg	ug/kg	<200				<100					<200			<10		<200			<200			
75-27-4	Bromodichloromethane	SOLID	#N/A	mg/kg	ug/kg	<140				<70					<140			<7		<140			<140			
75-34-3	1,1-Dichloroethane	SOLID	0.01	mg/kg	ug/kg	<160				<80					<160			<8		<160			<160			
75-35-4	1,1-Dichloroethene	SOLID	#N/A	mg/kg	ug/kg	<200				<100					<200			<10		<200			<200			
75-69-4	Trichlorofluoromethane	SOLID	0.05	mg/kg	ug/kg	<120				<60					<120			<6		<120			<120			
75-71-8	Dichlorodifluoromethane	SOLID	#N/A	mg/kg	ug/kg	<120				<60					<120			<6		<120			<120			
77-47-4	Hexachlorocyclopentadiene	SOLID	#N/A	mg/kg	ug/kg	<100				<100					<100			<100		<100			<100			
78-59-1	Isophorone	SOLID	22.26	mg/kg	ug/kg	<100				<100					<100			<100		3120.0			<100			
78-87-5	1,2-Dichloropropane	SOLID	#N/A	mg/kg	ug/kg	<200				<100					<200			<10		<200			<200			
79-00-5	1,1,2-Trichloroethane	SOLID	#N/A	mg/kg	ug/kg	<200				<100					<200			<10		<200			<200			
79-01-6	Trichloroethene	SOLID	0.09	mg/kg	ug/kg	<180				<90					<180			<9		<180			<180			
79-34-5	1,1,2,2-Tetrachloroethane	SOLID	2.66	mg/kg	ug/kg	<200				<100					<200			<10		<200			<200			
84-66-2	Diethyl phthalate	SOLID	3.11	mg/kg	ug/kg	<100				<100					<100			<100		<100			<100			
84-74-2	Di-N-Butyl Phthalate	SOLID	0.52	mg/kg	ug/kg	182.0				<100				649.0	<100			<100		12900.0			<100			
85-68-7	Butylbenzyl phthalate	SOLID	23.36	mg/kg	ug/kg	<100				<100				261.0	<100			<100		<100			<100			
86-74-8	Carbazole	SOLID	0.01	mg/kg	ug/kg	<100				<100				429.0	<100			<100		<100			<100			
87-61-6	1,2,3-Trichlorobenzene	SOLID	#N/A	mg/kg	ug/kg	<400				<200				400	<200			<20		400			<400			
87-68-3	Hexachlorobutadiene	SOLID	#N/A	mg/kg	ug/kg	<100				<100				<100	<100			<100		<100			<100			
87-86-5	Pentachlorophenol	SOLID	2.17	mg/kg	ug/kg	<100				<100				<100	<100			<100		<100			<100			
88-06-2	2,4,6-Trichlorophenol	SOLID	#N/A	mg/kg	ug/kg	<100				<100				<100	<100			<100		<100			<100			
88-75-5	2-Nitrophenol	SOLID	0.03	mg/kg	ug/kg	<100				<100				<100	<100			<100		3390.0			<100			
91-57-6	2-Methylnaphthalene (SVOC) DEFAULT	SOLID	0.84	mg/kg	ug/kg	<100				<100				245.0	<100			<100		7900.0			<100			
91-58-7	2-Chloronaphthalene	SOLID	0.92	mg/kg	ug/kg	<100				<100				<100	<100			<100		<100			<100			
95-47-6	Xylene	SOLID	0.23	mg/kg	ug/kg	<200			17.9	<100		<10	<10	<200	<10	<200		<10	<10	1680.0		<10	<200			
95-48-7	2-Methylphenol	SOLID	0.54	mg/kg	ug/kg	<100				<100				<100	<100			<100		<100			<100			
95-49-8	2-Chlorotoluene	SOLID	#N/A	mg/kg	ug/kg	<180				<90				<180	<9			<9		<180			<180			
95-50-1	1,2-Dichlorobenzene	SOLID	40.42	mg/kg	ug/kg	<100				<100				<100	<100			<10		<100			<100			
95-57-8	2-Chlorophenol	SOLID	#N/A	mg/kg	ug/kg	<100				<100				<100	<100			<100		<100			<100			
95-63-6	1,2,4-Trimethylbenzene	SOLID	0.25	mg/kg	ug/kg	<180				345.0				<180	<9			<9		58900.0			<180			
95-95-4	2,4,5-Trichlorophenol	SOLID	60.93	mg/kg	ug/kg	<100				<100				<100	<100			<100		<100			<100			
96-12-8	1,2-Dibromo-3-chloropropane	SOLID	#N/A	mg/kg	ug/kg	<280				<140				<280	<14			<14		<280			<280			
96-18-4	1,2,3-Trichloropropane	SOLID	0.44	mg/kg	ug/kg	<320				<160				<320	<16			<16		<320			<320			
98-06-6	tert-Butylbenzene	SOLID	0.75	mg/kg	ug/kg	<280				<140				<280	<14			<14		<280			<280			
98-82-8	Isopropylbenzene	SOLID	0.27	mg/kg	ug/kg	<100				<50				<100	<5			<5		2110.0			<100			
98-95-3	Nitrobenzene	SOLID	0.00	mg/kg	ug/kg	<100				<100				<100	<100			<100		<100			<100			
99-87-6	4-Isopropyltoluene	SOLID	54.06	mg/kg	ug/kg	<200				<100				<200	<10			<10		7540.0			<200			
P1374	Xylene	SOLID	0.23	mg/kg	ug/kg	<200			114.0	306.0		<10	73.8	<200	105.0	876.0	<10	<10	3090.0	<10	<200					
P1762	TPH Aromatic >C8-C10	SOLID	219.16	mg/kg	mg/kg																	<0.01	<0.01	<0.01	<0.01	
P1763	TPH Aromatic >C8-C10	SOLID	219.16	mg/kg	mg/kg																	<0.01	<0.01	<0.01	<0.01	
P1334	pH	SOLID	#N/A	mg/kg	pH																	8.3	7.6	7.7	8.3	
101-21-3	Chlorpropham	SOLID	#N/A	mg/kg	mg/kg																					
1014-70-6	Simetryn SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																					
1024-57-3	Heptachlor Epoxide	SOLID	#N/A	mg/kg	ug/kg					<50				<50	<50			<50		<50			<50			
1031-07-8	Endos																									

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Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	Hole Ref	AEC18-LF-GW207A	AEC18-LF-GW207A	AEC18-LF-LW201	AEC18-LF-LW201	AEC18-LF-LW202	AEC18-LF-LW202	AEC18-LF-LW202	AEC18-LF-LW202	AEC18-LF-LW203	AEC18-LF-LW203	AEC18-LF-LW203	AEC18-LF-LW204	AEC18-LF-LW204	AEC18-LF-LW204	AEC18-LF-LW205	AEC18-LF-LW205	PFCP20	PFCP35A	PFCP47	PFCP56	
						Sample Top	Lookup soil	Sample Ref	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
1610-18-0	Prometon SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																						
16118-49-3	Carbetamide	SOLID	#N/A	mg/kg	mg/kg																						
1689-83-4	loxynil	SOLID	#N/A	mg/kg	mg/kg				<0.01						<0.01			<0.01									
1689-84-5	Bromoxynil	SOLID	#N/A	mg/kg	mg/kg				<0.01						<0.01			<0.01									
1702-17-6	Clopyralid	SOLID	#N/A	mg/kg	mg/kg																						
1746-81-2	Monolinuron	SOLID	#N/A	mg/kg	mg/kg																						
18691-97-9	Methabenzthiazuron	SOLID	#N/A	mg/kg	mg/kg																						
1897-45-6	Chlorothalonil	SOLID	#N/A	mg/kg	ug/kg																						
1912-24-9	Atrazine SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																						
1918-00-9	Dicamba	SOLID	#N/A	mg/kg	mg/kg				<0.01						<0.01			<0.01									
6607	Picloram	SOLID	#N/A	mg/kg	mg/kg																						
1967-16-4	Chlorbufam	SOLID	#N/A	mg/kg	mg/kg																						
1982-47-4	Chloroxuron	SOLID	#N/A	mg/kg	mg/kg																						
19937-59-8	Metoxuron	SOLID	#N/A	mg/kg	mg/kg																						
2132-70-9	p,p-Methoxychlor	SOLID	#N/A	mg/kg	ug/kg																						
2274-67-1	Chlorpyrifos-methyl	SOLID	#N/A	mg/kg	ug/kg				<50						<50			<50									
2303-17-5	Triallate	SOLID	#N/A	mg/kg	ug/kg				<50						<50			<50									
2310-17-0	Phosalone	SOLID	#N/A	mg/kg	ug/kg				<50						<50			<50									
23103-98-2	Pirimicarb	SOLID	#N/A	mg/kg	mg/kg																						
24017-47-8	Triazophos	SOLID	#N/A	mg/kg	ug/kg				<50						<50			<50									
25057-89-0	Bentazone	SOLID	#N/A	mg/kg	mg/kg				<0.01						<0.01			<0.01									
2642-71-9	Azinphos-ethyl	SOLID	#N/A	mg/kg	ug/kg				<50						<50			<50									
2921-88-2	Chlorpyrifos	SOLID	#N/A	mg/kg	ug/kg				<50						<50			<50									
29232-93-7	Pirimiphos Methyl	SOLID	#N/A	mg/kg	ug/kg				<50						<50			<50									
297-78-9	Telodrin	SOLID	#N/A	mg/kg	ug/kg				<50						<50			<50									
298-00-0	Methyl Parathion	SOLID	#N/A	mg/kg	ug/kg				<50						<50			<50									
298-01-1	Mevinphos	SOLID	#N/A	mg/kg	ug/kg				<50						<50			<50									
298-04-4	Disulfoton SUBCON OCP Alcontrol	SOLID	#N/A	mg/kg	ug/kg				<50						<50			<50									
29973-13-5	Ethiofencarb	SOLID	#N/A	mg/kg	mg/kg																						
30667-99-3	o,p-Methoxychlor	SOLID	#N/A	mg/kg	ug/kg				<50						<50			<50									
309-00-2	Aldrin SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg				<50						<50			<50									
31218-83-4	Propetamphos	SOLID	#N/A	mg/kg	ug/kg				<50						<50			<50									
314-40-9	Bromacil	SOLID	#N/A	mg/kg	mg/kg																						
319-84-6	alpha-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg				<50						<50			<50									
319-85-7	beta-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg				<50						<50			<50									
330-54-1	Diuron SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																						
330-55-2	Linuron	SOLID	#N/A	mg/kg	mg/kg																						
33213-65-9	Endosulphan II	SOLID	#N/A	mg/kg	ug/kg				<50						<50			<50									
333-41-5	Diazinon	SOLID	#N/A	mg/kg	ug/kg				<50						<50			<50									
34123-59-6	Isoproturon	SOLID	#N/A	mg/kg	mg/kg																						
34205-21-5	Dimefuron	SOLID	#N/A	mg/kg	mg/kg																						
3424-82-6	o,p-DDE	SOLID	#N/A	mg/kg	ug/kg				<50						<50			<50									
35367-38-5	Diflubenuron	SOLID	#N/A	mg/kg	mg/kg																						
698836	Benazolin	SOLID	#N/A	mg/kg	mg/kg																						
38260-54-7	Etriphos	SOLID	#N/A	mg/kg	ug/kg				<50						<50			<50									
40483-25-2	Diclofop	SOLID	#N/A	mg/kg	mg/kg				<0.01						<0.01			<0.01									
40487-42-1	Pendimethalin	SOLID	#N/A	mg/kg	ug/kg				<50						<50			<50									
43121-43-3	Triadimefon	SOLID	#N/A	mg/kg	ug/kg				<50						<50			<50									
465-73-6	Isodrin	SOLID	#N/A	mg/kg	ug/kg				<50						<50			<50									
470-90-6	Chlorfenvinphos	SOLID	#N/A	mg/kg	ug/kg				<50						<50			<50									
50-29-3	p,p-DDT SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg				<50						<50			<50									
50-31-7	2,3,6-TBA	SOLID	#N/A	mg/kg	mg/kg																						
5103-71-9	cis-Chlordane SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg				<50						<50			<50									
5103-74-2	trans-Chlordane SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg				<50						<50			<50									
51630-58-1	Fenvalerate SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																						
52315-07-8	Cypermethrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																						
52645-53-1	Permethrin SUBCON RPS MH Pyrethroids	SOLID	#N/A	mg/kg	mg/kg																						
52756-22-6	Flamprop-isopropyl	SOLID	#N/A	mg/kg	mg/kg																						
52918-63-5	Deltamethrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																						
53-19-0	o,p-TDE (DDD)	SOLID	#N/A	mg/kg	ug/kg				<50						<50			<50									
55335-06-3	Triclopyr	SOLID	#N/A	mg/kg	mg/kg				<0.01						<0.01			<0.01									
55-38-9	Fenthion	SOLID	#N/A	mg/kg	ug/kg				<50						<50			<50									
563-12-2	Ethion	SOLID	#N/A	mg/kg	ug/kg				<50						<50			<50									
56-38-2	Parathion (Ethyl Parathion)	SOLID	#N/A	mg/kg	ug/kg				<50																		

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Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	AEC18-LF-GW207A	AEC18-LF-GW207A	AEC18-LF-LW201	AEC18-LF-LW201	AEC18-LF-LW202	AEC18-LF-LW202	AEC18-LF-LW202	AEC18-LF-LW202	AEC18-LF-LW203	AEC18-LF-LW203	AEC18-LF-LW203	AEC18-LF-LW204	AEC18-LF-LW204	AEC18-LF-LW204	AEC18-LF-LW205	AEC18-LF-LW205	PFCP20	PFCP35A	PFCP47	PFCP56
						ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES

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Hole Ref	AEC18-LF-GW207A	AEC18-LF-GW207A	AEC18-LF-LW201	AEC18-LF-LW201	AEC18-LF-LW202	AEC18-LF-LW202	AEC18-LF-LW202	AEC18-LF-LW202	AEC18-LF-LW202	AEC18-LF-LW203	AEC18-LF-LW203	AEC18-LF-LW203	AEC18-LF-LW204	AEC18-LF-LW204	AEC18-LF-LW204	AEC18-LF-LW205	AEC18-LF-LW205	PFCP20	PFCP35A	PFCP47	PFCP56
Sample Top	3.60	6.80	13.70	3.20	0.30	10.10	6.50	7.60	1.00	10.00	4.70	1.70	12.20	7.80	1.60	4.50	0.70	5.80	0.50	0.60	
Lookup soil	MG-LF	CwF	MG-LF	MG-LF	MADE GROUND	HEAD	MADE GROUND	MADE GROUND	MADE GROUND	MG-LF	MG-LF	MG-LF	HEAD	MG-LF	MADE GROUND	MADE GROUND	MG	MG	MG	MG	
Sample Ref	5	7	8	4	1	7	4	5	2	6	4	3	9	6	4	7	2	7	2	2	
Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
103-33-3	Azobenzene	SOLID - INITIAL	0.38	mg/kg	ug/kg	<100				<100			<100			<100					
106-47-8	4-Chloroaniline	SOLID - INITIAL	0.01	mg/kg	ug/kg	<100				<100			<100			592.0		<100			
700-57-23	4-Chlorophenylphenylether	SOLID - INITIAL	#N/A	mg/kg	ug/kg	<100				<100			<100			<100					
88-74-4	2-Nitroaniline	SOLID - INITIAL	0.01	mg/kg	ug/kg	<100				<100			<100			<100					
99-09-2	3-Nitroaniline	SOLID - INITIAL	#N/A	mg/kg	ug/kg	<100				<100			<100			<100					
994-05-8	Tertiary Amyl Methyl Ether	SOLID - INITIAL	#N/A	mg/kg	ug/kg	<200				<200			<10			<200					
1336-36-6	PCB Total (WAC only)	SOLID	#N/A	mg/kg	mg/kg																
P1330	BTEX (total) WAC	SOLID	#N/A	mg/kg	mg/kg																

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Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	Hole Ref																			
						PFCP60	PFCP61	PFCPRC01	PFCPRC04	PFCPRC04	PFCPRC10	PFCPRC12	PFCPRC15	PFCPRC16	PFCPRC17	PFCPRC17	PFCPRC21	PFCPRC22	PFCPRC22	PFCPRC23	PFCPRC23	PFCPRC23	PFCPRC24	PFCPRC24	
						0.30	0.50	1.00	0.60	3.50	0.30	0.80	1.00	0.50	0.70	4.00	1.00	0.40	6.70	13.00	13.40	2.00	6.00	1.00	15.00
						MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG
						1	2	2	2	6	1	2	3	2	2	5	2	2	8	15	16	4	8	4	7
						ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
108-67-8	1,3,5-Trimethylbenzene	SOLID - INITIAL	0.15	mg/kg	mg/kg																				
108-86-1	Bromobenzene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
108-90-7	Chlorobenzene	SOLID - INITIAL	4.46	mg/kg	mg/kg																				
108-95-2	Phenol	SOLID - INITIAL	0.04	mg/kg	mg/kg																				
111-91-1	Bis(2-chloroethoxy)methane	SOLID - INITIAL	0.01	mg/kg	mg/kg																				
117-81-7	Bis(2-ethylhexyl)phthalate	SOLID - INITIAL	18472.17	mg/kg	mg/kg																				
117-84-0	Di-N-Octyl Phthalate	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
118-74-1	Hexachlorobenzene (HCB)	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
120-82-1	1,2,4-Trichlorobenzene	SOLID - INITIAL	1.81	mg/kg	mg/kg																				
120-83-2	2,4-Dichlorophenol	SOLID - INITIAL	0.28	mg/kg	mg/kg																				
121-14-2	2,4-Dinitrotoluene	SOLID - INITIAL	0.00	mg/kg	mg/kg																				
122-39-4	Diphenylamine	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
124-48-1	Dibromochloromethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
127-18-4	Tetrachloroethene	SOLID - INITIAL	1.46	mg/kg	mg/kg																				
131-11-3	Dimethylphthalate	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
132-64-9	Dibenzofuran	SOLID - INITIAL	0.49	mg/kg	mg/kg																				
135-98-8	Sec-Butylbenzene	SOLID - INITIAL	1.39	mg/kg	mg/kg																				
142-28-9	1,3-Dichloropropane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
156-59-2	cis-1,2-Dichloroethene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
156-60-5	trans-1,2-Dichloroethene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
1634-04-4	Methyl tert-butyl ether (MTBE)	SOLID - INITIAL	#N/A	mg/kg	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
39638-32-9	Bis(2-chloroisopropyl)ether	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
528-29-0	O-Dinitrobenzene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
534-52-1	2-Methyl-4,6-Dinitrophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
541-73-1	1,3-Dichlorobenzene	SOLID - INITIAL	145.60	mg/kg	mg/kg																				
56-23-5	Tetrachloromethane (Carbon Tetra Chloride)	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
563-58-6	1,1-Dichloropropene	SOLID - INITIAL	0.41	mg/kg	mg/kg																				
58-90-2	2,3,4,6-Tetrachlorophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
594-20-7	2,2-Dichloropropane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
59-50-7	4-Chloro-3-Methylphenol	SOLID - INITIAL	2.93	mg/kg	mg/kg																				
606-20-2	2,6-Dinitrotoluene	SOLID - INITIAL	1.48	mg/kg	mg/kg																				
62-53-3	Aniline	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
630-20-6	1,1,1,2-Tetrachloroethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
67-66-3	Chloroform	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
700-57-23	4-Chlorophenyl Phenyl Ether	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
71-55-6	1,1,1-Trichloroethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
74-95-3	Dibromomethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
74-97-5	Bromochloromethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
75-01-4	Chloroethene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
75-25-2	Tribromomethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
75-27-4	Bromodichloromethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
75-34-3	1,1-Dichloroethane	SOLID - INITIAL	0.01	mg/kg	mg/kg																				
75-35-4	1,1-Dichloroethene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
77-47-4	Hexachlorocyclopentadiene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
78-87-5	1,2-Dichloropropane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
79-00-5	1,1,2-Trichloroethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
79-01-6	Trichloroethene	SOLID - INITIAL	0.09	mg/kg	mg/kg																				
84-66-2	Diethylphthalate	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
84-74-2	Di-N-Butyl Phthalate	SOLID - INITIAL	0.52	mg/kg	mg/kg																				
85-68-7	Butylbenzylphthalate	SOLID - INITIAL	23.36	mg/kg	mg/kg																				
86-74-8	Carbazole	SOLID - INITIAL	0.01	mg/kg	mg/kg																				
87-61-6	1,2,3 Trichlorobenzene	SOLID - INITIAL	0.26	mg/kg	mg/kg																				
87-68-3	Hexachlorobutadiene (HCBd)	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
87-86-5	Pentachlorophenol (PCP)	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
88-06-2	2,4,6-Trichlorophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
88-74-4	2-Nitroaniline	SOLID - INITIAL	0.01	mg/kg	mg/kg																				
91-57-6	2-Methylnaphthalene	SOLID - INITIAL	0.84	mg/kg	mg/kg																				
91-58-7	2-Chloronaphthalene	SOLID - INITIAL	0.92	mg/kg	mg/kg																				
935-95-5	2,3,5,6-Tetrachlorophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
95-47-6	Xylene	SOLID - INITIAL	0.23	mg/kg	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
95-48-7	2-Methylphenol	SOLID - INITIAL	0.54	mg/kg	mg/kg																				
95-49-8	2-Chlorotoluene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
95-50-1	1,2-Dichlorobenzene	SOLID - INITIAL	40.42	mg/kg	mg/kg																				
95-57-8	2-Chlorophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
95-63-6	1,2,4-Trimethylbenzene	SOLID - INITIAL	0.25	mg/kg	mg/kg																				

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		Hole Ref	PFCP60	PFCP61	PFCPRC01	PFCPRC04	PFCPRC04	PFCPRC10	PFCPRC12	PFCPRC15	PFCPRC16	PFCPRC17	PFCPRC17	PFCPRC21	PFCPRC22	PFCPRC22	PFCPRC23	PFCPRC23	PFCPRC23	PFCPRC23	PFCPRC24	PFCPRC24
		Sample Top	0.30	0.50	1.00	0.60	3.50	0.30	0.80	1.00	0.50	0.70	4.00	1.00	0.40	6.70	13.00	13.40	2.00	6.00	1.00	15.00
		Lookup soil	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG
		Sample Ref	1	2	2	2	6	1	2	3	2	2	5	2	2	8	15	16	4	8	4	7
Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
1610-18-0	Prometon SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																	
16118-49-3	Carbetamide	SOLID	#N/A	mg/kg	mg/kg																	
1689-83-4	loxynil	SOLID	#N/A	mg/kg	mg/kg																	
1689-84-5	Bromoxynil	SOLID	#N/A	mg/kg	mg/kg																	
1702-17-6	Clopyralid	SOLID	#N/A	mg/kg	mg/kg																	
1746-81-2	Monolinuron	SOLID	#N/A	mg/kg	mg/kg																	
18691-97-9	Methabenzthiazuron	SOLID	#N/A	mg/kg	mg/kg																	
1897-45-6	Chlorothalonil	SOLID	#N/A	mg/kg	ug/kg																	
1912-24-9	Atrazine SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																	
1918-00-9	Dicamba	SOLID	#N/A	mg/kg	mg/kg																	
6607	Picloram	SOLID	#N/A	mg/kg	mg/kg																	
1967-16-4	Chlorbufam	SOLID	#N/A	mg/kg	mg/kg																	
1982-47-4	Chloroxuron	SOLID	#N/A	mg/kg	mg/kg																	
19937-59-8	Metoxuron	SOLID	#N/A	mg/kg	mg/kg																	
2132-70-9	p,p-Methoxychlor	SOLID	#N/A	mg/kg	ug/kg																	
2274-67-1	Chlorpyrifos-methyl	SOLID	#N/A	mg/kg	ug/kg																	
2303-17-5	Triallate	SOLID	#N/A	mg/kg	ug/kg																	
2310-17-0	Phosalone	SOLID	#N/A	mg/kg	ug/kg																	
23103-98-2	Pirimicarb	SOLID	#N/A	mg/kg	mg/kg																	
24017-47-8	Triazophos	SOLID	#N/A	mg/kg	ug/kg																	
25057-89-0	Bentazone	SOLID	#N/A	mg/kg	mg/kg																	
2642-71-9	Azinphos-ethyl	SOLID	#N/A	mg/kg	ug/kg																	
2921-88-2	Chlorpyrifos	SOLID	#N/A	mg/kg	ug/kg																	
29232-93-7	Pirimiphos Methyl	SOLID	#N/A	mg/kg	ug/kg																	
297-78-9	Telodrin	SOLID	#N/A	mg/kg	ug/kg																	
298-00-0	Methyl Parathion	SOLID	#N/A	mg/kg	ug/kg																	
298-01-1	Mevinphos	SOLID	#N/A	mg/kg	ug/kg																	
298-04-4	Disulfoton SUBCON OCP Alcontrol	SOLID	#N/A	mg/kg	ug/kg																	
29973-13-5	Ethiofencarb	SOLID	#N/A	mg/kg	mg/kg																	
30667-99-3	o,p-Methoxychlor	SOLID	#N/A	mg/kg	ug/kg																	
309-00-2	Aldrin SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																	
31218-83-4	Propetamphos	SOLID	#N/A	mg/kg	ug/kg																	
314-40-9	Bromacil	SOLID	#N/A	mg/kg	mg/kg																	
319-84-6	alpha-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																	
	beta-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																	
319-85-7		SOLID	#N/A	mg/kg	ug/kg																	
330-54-1	Diuron SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																	
330-55-2	Linuron	SOLID	#N/A	mg/kg	mg/kg																	
33213-65-9	Endosulphan II	SOLID	#N/A	mg/kg	ug/kg																	
333-41-5	Diazinon	SOLID	#N/A	mg/kg	ug/kg																	
34123-59-6	Isoproturon	SOLID	#N/A	mg/kg	mg/kg																	
34205-21-5	Dimefuron	SOLID	#N/A	mg/kg	mg/kg																	
3424-82-6	o,p-DDE	SOLID	#N/A	mg/kg	ug/kg																	
35367-38-5	Difluzenuron	SOLID	#N/A	mg/kg	mg/kg																	
698836	Benazolin	SOLID	#N/A	mg/kg	mg/kg																	
38260-54-7	Etrimpfos	SOLID	#N/A	mg/kg	ug/kg																	
40483-25-2	Diclofop	SOLID	#N/A	mg/kg	mg/kg																	
40487-42-1	Pendimethalin	SOLID	#N/A	mg/kg	ug/kg																	
43121-43-3	Triadimefon	SOLID	#N/A	mg/kg	ug/kg																	
465-73-6	Isodrin	SOLID	#N/A	mg/kg	ug/kg																	
470-90-6	Chlorfenvinphos	SOLID	#N/A	mg/kg	ug/kg																	
50-29-3	p,p-DDT SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																	
50-31-7	2,3,6-TBA	SOLID	#N/A	mg/kg	mg/kg																	
5103-71-9	cis-Chlordane SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																	
5103-74-2	trans-Chlordane SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																	
51630-58-1	Fenvalerate SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																	
52315-07-8	Cypermethrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																	
52645-53-1	Permethrin SUBCON RPS MH Pyrethroids	SOLID	#N/A	mg/kg	mg/kg																	
52756-22-6	Fiamprop-isopropyl	SOLID	#N/A	mg/kg	mg/kg																	
52918-63-5	Deltamethrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																	
53-19-0	o,p-TDE (DDD)	SOLID	#N/A	mg/kg	ug/kg																	
55335-06-3	Triclopyr	SOLID	#N/A	mg/kg	mg/kg																	
55-38-9	Fenthion	SOLID	#N/A	mg/kg	ug/kg																	
563-12-2	Ethion	SOLID	#N/A	mg/kg	ug/kg																	
56-38-2	Parathion (Ethyl Parathion)	SOLID	#N/A	mg/kg	ug/kg																	
58667-63-3	Fiamprop	SOLID	#N/A	mg/kg	mg/kg																	

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		Hole Ref	PFCP60	PFCP61	PFCPRC01	PFCPRC04	PFCPRC04	PFCPRC10	PFCPRC12	PFCPRC15	PFCPRC16	PFCPRC17	PFCPRC17	PFCPRC21	PFCPRC22	PFCPRC22	PFCPRC23	PFCPRC23	PFCPRC23	PFCPRC23	PFCPRC24	PFCPRC24
		Sample Top	0.30	0.50	1.00	0.60	3.50	0.30	0.80	1.00	0.50	0.70	4.00	1.00	0.40	6.70	13.00	13.40	2.00	6.00	1.00	15.00
		Lookup soil	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG
		Sample Ref	1	2	2	2	6	1	2	3	2	2	5	2	2	8	15	16	4	8	4	7
Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
58-89-9	gamma-Hexachlorocyclohexane (HCH / Lindane)	SOLID	#N/A	mg/kg	ug/kg																	
5915-41-3	Terbutylazine SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																	
60-51-5	Dimethoate	SOLID	#N/A	mg/kg	ug/kg																	
60-57-1	Dieldrin SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																	
61949-76-6	Permethrin I (cis) SUBCON Alcontrol OCP	SOLID	#N/A	mg/kg	ug/kg																	
61949-77-7	Permethrin II (trans) SUBCON Alcontrol OCP	SOLID	#N/A	mg/kg	ug/kg																	
62-73-7	Dichlorvos	SOLID	#N/A	mg/kg	ug/kg																	
639-58-7	Triphenyltin SUBCON I2	SOLID	#N/A	mg/kg	ug/kg																	
66063-05-6	Pencycuron	SOLID	#N/A	mg/kg	mg/kg																	
68085-85-8	Cyhalothrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																	
683-18-1	Dibutyltin Subcon I2	SOLID	#N/A	mg/kg	ug/kg																	
68359-37-5	Cyfluthrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																	
72-20-8	Endrin SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																	
72-54-8	p,p-TDE (DDD)	SOLID	#N/A	mg/kg	ug/kg																	
72-55-9	p,p-DDE	SOLID	#N/A	mg/kg	ug/kg																	
7287-19-6	Prometryn SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																	
76-44-8	Heptachlor SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																	
786-19-6	Carbophenothion	SOLID	#N/A	mg/kg	ug/kg																	
789-02-6	o,p-DDT SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																	
81406-37-3	Fluroxypyr	SOLID	#N/A	mg/kg	mg/kg																	
82-68-8	Quintozene; (PCNB)	SOLID	#N/A	mg/kg	ug/kg																	
834-12-8	Ametryn SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																	
86-50-0	Azinphos-methyl	SOLID	#N/A	mg/kg	ug/kg																	
886-50-0	Terbutryn SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																	
93-65-2	MCPP; (Mecoprop)	SOLID	#N/A	mg/kg	mg/kg																	
93-72-1	2,4,5-TP; (Fenoprop); (Silvex)	SOLID	#N/A	mg/kg	mg/kg																	
93-76-5	2,4,5-T	SOLID	#N/A	mg/kg	mg/kg																	
94-74-6	MCPA	SOLID	#N/A	mg/kg	mg/kg																	
94-75-7	2,4-D	SOLID	#N/A	mg/kg	mg/kg																	
94-81-5	MCPB	SOLID	#N/A	mg/kg	mg/kg																	
94-82-6	2,4-DB	SOLID	#N/A	mg/kg	mg/kg																	
959-98-8	Endosulphan I	SOLID	#N/A	mg/kg	ug/kg																	
P1362	TPH Aromatic >C35-C44	SOLID	657.18	mg/kg	mg/kg																	
P1415	TPH Aliphatic >C35-C44	SOLID	6927070.30	mg/kg	mg/kg																	
120-12-7	Anthracene	SOLID	0.16	mg/kg	ug/kg																	
129-00-0	Pyrene	SOLID	1.88	mg/kg	ug/kg																	
191-24-2	Benzo(g,h,i)perylene	SOLID	2.42	mg/kg	ug/kg																	
193-39-5	Indeno(1,2,3-cd)pyrene	SOLID	0.51	mg/kg	ug/kg																	
205-99-2	Benzo(b)fluoranthene	SOLID	0.61	mg/kg	ug/kg																	
206-44-0	Fluoranthene	SOLID	0.01	mg/kg	ug/kg																	
207-08-9	Benzo(k)fluoranthene	SOLID	0.86	mg/kg	ug/kg																	
208-96-8	Acenaphthylene	SOLID	1.01	mg/kg	ug/kg																	
218-01-9	Chrysene	SOLID	6.38	mg/kg	ug/kg																	
50-32-8	Benzo(a)pyrene	SOLID	0.07	mg/kg	ug/kg																	
53-70-3	Dibenzo(a,h)anthracene	SOLID	10.80	mg/kg	ug/kg																	
56-55-3	Benzo(a)anthracene	SOLID	4.50	mg/kg	ug/kg																	
83-32-9	Acenaphthene	SOLID	965.39	mg/kg	ug/kg																	
85-01-8	Phenanthrene	SOLID	3.35	mg/kg	ug/kg																	
86-73-7	Fluorene	SOLID	1.76	mg/kg	ug/kg																	
91-20-3	Napthalene	SOLID	0.08	mg/kg	ug/kg																	
302-04-5	Thiocyanate	SOLID	62.96	mg/kg	mg/kg																	
P1879	Xylenols	SOLID - INITIAL	2.39	mg/kg	mg/kg																	
P2098	Cresols	SOLID - INITIAL	0.54	mg/kg	mg/kg																	
12001-28-4	Asbestos: Crocidolite	SOLID - INITIAL	#N/A	mg/kg	No units																	
12001-29-5	Asbestos: Chrysotile	SOLID - INITIAL	#N/A	mg/kg	No units																	
12172-67-7	Asbestos: Actinolite	SOLID - INITIAL	#N/A	mg/kg	No units																	
12172-73-5	Asbestos: Amosite	SOLID - INITIAL	#N/A	mg/kg	No units																	
14567-73-8	Asbestos: Tremolite	SOLID - INITIAL	#N/A	mg/kg	No units																	
17068-78-9	Asbestos: Anthophyllite	SOLID - INITIAL	#N/A	mg/kg	No units																	
1002-53-5	Dibutyl Tin	SOLID - INITIAL	0.00	mg/kg	mg/kg																	
1461-22-9	Tributyltin	SOLID - INITIAL	0.00	mg/kg	mg/kg																	
1461-25-2	Tetraethyl Tin	SOLID - INITIAL	0.00	mg/kg	mg/kg																	
1634-04-4	Methyl tert-butyl ether (MTBE)	SOLID - INITIAL	#N/A	mg/kg	ug/kg																	
1746-01-6	2,3,7,8-Tetrachlorodibenzo-p-dioxin	SOLID - INITIAL	#N/A	mg/kg	ng/g																	
181274-15-7	Propoxycarbazono-sodium	SOLID - INITIAL	#N/A	mg/kg	mg/kg																	
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-P-Dioxin	SOLID - INITIAL	94064.99	mg/kg	ng/g																	
298-02-2	Phorate	SOLID - INITIAL	#N/A	mg/kg	ug/kg																	

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Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	Hole Ref	PFCP60	PFCP61	PFCPRC01	PFCPRC04	PFCPRC04	PFCPRC10	PFCPRC12	PFCPRC15	PFCPRC16	PFCPRC17	PFCPRC17	PFCPRC21	PFCPRC22	PFCPRC22	PFCPRC23	PFCPRC23	PFCPRC23	PFCPRC23	PFCPRC24	PFCPRC24	
						Sample Top	0.30	0.50	1.00	0.60	3.50	0.30	0.80	1.00	0.50	0.70	4.00	1.00	0.40	6.70	13.00	13.40	2.00	6.00	1.00	15.00	15.00
						Lookup soil	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG
						Sample Ref	1	2	2	2	6	1	2	3	2	2	5	2	2	8	15	16	4	8	4	7	
							ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	
31508-00-6	PCB-118 2,3',4,4',5 - Pentachlorobiphenyl	SOLID - INITIAL	694.02	mg/kg	ng/g																						
32598-13-3	PCB 77	SOLID - INITIAL	6185.41	mg/kg	ng/g																						
32598-14-4	PCB 105	SOLID - INITIAL	8940.63	mg/kg	ng/g																						
3268-87-9	Octachlorodibenzo-p-dioxin	SOLID - INITIAL	91923.81	mg/kg	ng/g																						
32774-16-6	PCB 169	SOLID - INITIAL	37270.75	mg/kg	ng/g																						
3380-34-5	Triclosan	SOLID - INITIAL	0.33	mg/kg	mg/kg																						
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-P-Dioxin	SOLID - INITIAL	91923.81	mg/kg	ng/g																						
38380-08-4	PCB-156 2,3,3,4,4,5 - Hexachlorobiphenyl	SOLID - INITIAL	3172.26	mg/kg	ng/g																						
39001-02-0	Octachlorodibenzofuran	SOLID - INITIAL	46180.43	mg/kg	ng/g																						
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-P-Dioxin	SOLID - INITIAL	36595.53	mg/kg	ng/g																						
39635-31-9	PCB 189	SOLID - INITIAL	270002.64	mg/kg	ng/g																						
40321-76-4	1,2,3,7,8-Pentachlorodibenzo-P-Dioxin	SOLID - INITIAL	#N/A	mg/kg	ng/g																						
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	SOLID - INITIAL	393.06	mg/kg	ng/g																						
52645-53-1	Permethrin	SOLID - INITIAL	#N/A	mg/kg	ug/kg																						
52663-72-6	PCB 167	SOLID - INITIAL	45853.03	mg/kg	ng/g																						
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	SOLID - INITIAL	9648.46	mg/kg	ng/g																						
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	SOLID - INITIAL	964.85	mg/kg	ng/g																						
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	SOLID - INITIAL	715.25	mg/kg	ng/g																						
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	SOLID - INITIAL	715.25	mg/kg	ng/g																						
57465-28-8	PCB 126	SOLID - INITIAL	8940.63	mg/kg	ng/g																						
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-P-Dioxin	SOLID - INITIAL	91923.81	mg/kg	ng/g																						
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofura	SOLID - INITIAL	715.25	mg/kg	ng/g																						
62476-59-9	Acifluorfen	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
65510-44-3	PCB 123	SOLID - INITIAL	8940.63	mg/kg	ng/g																						
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	SOLID - INITIAL	715.25	mg/kg	ng/g																						
69782-90-7	PCB 157	SOLID - INITIAL	45853.03	mg/kg	ng/g																						
70362-50-4	PCB 81	SOLID - INITIAL	8940.63	mg/kg	ng/g																						
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	SOLID - INITIAL	715.25	mg/kg	ng/g																						
7085-19-0	mecoprop	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
72-43-5	Methoxychlor	SOLID - INITIAL	#N/A	mg/kg	ug/kg																						
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	SOLID - INITIAL	#N/A	mg/kg	ng/g																						
74472-37-0	PCB 114	SOLID - INITIAL	8940.63	mg/kg	ng/g																						
88-85-7	Dinoseb	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
892-20-6	Triphenyltin	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
P1330	BTEX	SOLID - INITIAL	0.00	mg/kg	ug/kg																						
P1354	TPH Aromatic >C6-C7	SOLID - INITIAL	0.05	mg/kg	ug/kg																						
P1355	TPH Aromatics > C7-C8	SOLID - INITIAL	#N/A	mg/kg	ug/kg																						
P1356	Aromatics >C8-10	SOLID - INITIAL	#N/A	mg/kg	ug/kg																						
P1357	Aromatics >C10-12	SOLID - INITIAL	#N/A	mg/kg	ug/kg																						
P1358	Aromatics >C12-16	SOLID - INITIAL	#N/A	mg/kg	ug/kg																						
P1359	Aromatics >C16-21	SOLID - INITIAL	#N/A	mg/kg	ug/kg																						
P1360	Aromatics >C21-35	SOLID - INITIAL	#N/A	mg/kg	ug/kg																						
P1362	Aromatics >C35-44	SOLID - INITIAL	#N/A	mg/kg	ug/kg																						
P1407	Aliphatics >C5-6	SOLID - INITIAL	#N/A	mg/kg	ug/kg																						
P1408	Aliphatics >C6-8	SOLID - INITIAL	#N/A	mg/kg	ug/kg																						
P1409	Aliphatics >C8-10	SOLID - INITIAL	#N/A	mg/kg	ug/kg																						
P1410	Aliphatics >C10-12	SOLID - INITIAL	#N/A	mg/kg	ug/kg																						
P1411	Aliphatics >C12-16	SOLID - INITIAL	#N/A	mg/kg	ug/kg																						
P1412	Aliphatics >C16-21	SOLID - INITIAL	#N/A	mg/kg	ug/kg																						
P1413	Aliphatics >C21-35	SOLID - INITIAL	#N/A	mg/kg	ug/kg																						
P1415	Aliphatics >C35-44	SOLID - INITIAL	#N/A	mg/kg	ug/kg																						
15541-45-4	Bromate	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
16065-83-1	Trivalent Chromium	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
16887-00-6	Chloride	SOLID - INITIAL	268.18	mg/kg	mg/kg																						
16984-48-8	Fluoride	SOLID - INITIAL	0.41	mg/kg	mg/kg																						
18496-25-8	Sulphide	SOLID - INITIAL	#VALUE!	mg/kg	mg/kg																						
24959-67-9	Bromide	SOLID - INITIAL	#VALUE!	mg/kg	mg/kg																						
7439-89-6	Iron	SOLID - INITIAL	44.05	mg/kg	mg/kg																						
7439-95-4	Magnesium	SOLID - INITIAL	0.00	mg/kg	mg/kg																						
7439-98-7	Molybdenum	SOLID - INITIAL	0.10	mg/kg	mg/kg																						
2023695	Potassium	SOLID - INITIAL	0.00	mg/kg	mg/kg																						
7440-23-5	Sodium	SOLID - INITIAL	263.64	mg/kg	mg/kg																						
7440-70-2	Calcium	SOLID - INITIAL	0.00	mg/kg	mg/kg																						
P1238	Ammoniacal Nitrogen as N	SOLID - INITIAL	0.11	mg/kg	mg/kg																						
P1286	Manganese	SOLID - INITIAL	2.51	mg/kg	mg/kg																						
100-01-6	4-Nitroaniline	SOLID - INITIAL	0.00	mg/kg	ug/kg																						
101-55-3	4-Bromophenyl Phenyl Ether	SOLID - INITIAL	#N/A	mg/kg	ug/kg																						

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					Hole Ref	PFCP60	PFCP61	PFCPRC01	PFCPRC04	PFCPRC04	PFCPRC10	PFCPRC12	PFCPRC15	PFCPRC16	PFCPRC17	PFCPRC17	PFCPRC21	PFCPRC22	PFCPRC22	PFCPRC23	PFCPRC23	PFCPRC23	PFCPRC23	PFCPRC24	PFCPRC24	
					Sample Top	0.30	0.50	1.00	0.60	3.50	0.30	0.80	1.00	0.50	0.70	4.00	1.00	0.40	6.70	13.00	13.40	2.00	6.00	1.00	15.00	
					Lookup soil	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG
					Sample Ref	1	2	2	2	6	1	2	3	2	2	5	2	2	8	15	16	4	8	4	7	
Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	
103-33-3	Azobenzene	SOLID - INITIAL	0.38	mg/kg	ug/kg																					
106-47-8	4-Chloroaniline	SOLID - INITIAL	0.01	mg/kg	ug/kg																					
700-57-23	4-Chlorophenylphenylether	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					
88-74-4	2-Nitroaniline	SOLID - INITIAL	0.01	mg/kg	ug/kg																					
99-09-2	3-Nitroaniline	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					
994-05-8	Tertiary Amyl Methyl Ether	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					
1336-36-6	PCB Total (WAC only)	SOLID	#N/A	mg/kg	mg/kg																					
P1330	BTEX (total) WAC	SOLID	#N/A	mg/kg	mg/kg																					

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G2 RTM Level 1 - Soils

Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	Hole Ref																			
						PFCPRC25	PFCPRC25	PFCPRC25	PFCPRC25	PFCPRC26	PFCPRC26	PFCPRC26	PFCPRC26	PFCPRC27	PFCPRC27	PFCPRC27	PFCPRC27	PFCPRC28	PFCPRC28	PFCPRC28	PFCPRC28	PFCPRC29	PFCPRC29	PFCPRC29	PFCPRC37
						1.00	12.00	4.00	6.00	0.60	12.00	6.00	0.60	2.00	8.00	1.00	11.00	14.80	9.00	0.70	4.00	7.00	1.00	10.00	3.00
						MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	CWF	MG
						3	14	6	8	2	15	9	3	6	12	3	13	17	11	2	6	9	3	12	5
						ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
100-41-4	Ethylbenzene	SOLID - INITIAL	0.53	mg/kg	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
108-88-3	Toluene	SOLID - INITIAL	0.88	mg/kg	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
120-12-7	Anthracene	SOLID - INITIAL	0.16	mg/kg	mg/kg	<0.02	<0.02	<0.02	0.0	<0.05	<0.02	<0.02	0.6	0.0	0.0	0.0	<0.02	<0.02	<0.02	0.0	<0.01	<0.01	<0.01	<0.01	<0.01
129-00-0	Pyrene	SOLID - INITIAL	1.88	mg/kg	mg/kg	<0.07	<0.07	0.1	0.1	0.4	<0.07	<0.07	2.0	0.2	0.2	0.4	<0.07	0.1	0.1	0.4	0.1	<0.07	0.3	<0.07	<0.07
1330-20-7	Xylene	SOLID - INITIAL	0.23	mg/kg	mg/kg																				
191-24-2	Benzo(g,h,i)perylene	SOLID - INITIAL	2.42	mg/kg	mg/kg	<0.05	<0.05	<0.05	<0.05	0.1	<0.05	<0.05	1.3	0.1	<0.05	0.2	<0.05	0.1	<0.05	0.2	<0.05	<0.05	0.2	<0.05	<0.05
193-39-5	Indeno(1,2,3-cd)pyrene	SOLID - INITIAL	0.51	mg/kg	mg/kg	<0.03	<0.03	0.1	<0.03	0.1	<0.03	<0.03	1.4	0.1	0.1	0.2	<0.03	0.1	0.1	0.2	<0.03	<0.03	0.2	<0.03	<0.03
205-99-2	Benzo(b)fluoranthene	SOLID - INITIAL	0.61	mg/kg	mg/kg	<0.05	<0.05	0.1	<0.05	0.2	<0.05	<0.05	1.4	0.1	0.1	0.3	<0.05	0.1	<0.05	0.3	<0.05	<0.05	0.3	<0.05	<0.05
206-44-0	Fluoranthene	SOLID - INITIAL	0.01	mg/kg	mg/kg	<0.08	<0.08	0.1	0.1	0.4	<0.08	<0.08	2.4	0.2	0.2	0.4	<0.08	0.1	0.1	0.4	0.1	<0.08	0.4	<0.08	<0.08
207-08-9	Benzo(k)fluoranthene	SOLID - INITIAL	0.86	mg/kg	mg/kg	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	0.9	0.1	<0.07	0.1	<0.07	<0.07	<0.07	0.2	<0.07	<0.07	0.1	<0.07	<0.07
208-96-8	Acenaphthylene	SOLID - INITIAL	1.01	mg/kg	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.03	<0.01	<0.01	<0.10	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
218-01-9	Chrysene	SOLID - INITIAL	6.38	mg/kg	mg/kg	<0.06	<0.06	0.1	0.1	0.3	<0.06	<0.06	1.4	0.2	0.1	0.3	<0.06	0.1	0.1	0.3	<0.06	<0.06	0.3	<0.06	<0.06
50-32-8	Benzo(a)pyrene	SOLID - INITIAL	0.07	mg/kg	mg/kg	<0.04	<0.04	<0.04	<0.04	0.2	<0.04	<0.04	1.5	0.1	0.1	0.2	<0.04	0.1	<0.04	0.2	<0.04	<0.04	0.2	<0.04	<0.04
53-70-3	Dibenzo(a,h)anthracene	SOLID - INITIAL	10.80	mg/kg	mg/kg	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.40	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
56-55-3	Benzo(a)anthracene	SOLID - INITIAL	4.50	mg/kg	mg/kg	<0.04	<0.04	0.1	0.1	0.2	<0.04	<0.04	1.3	0.1	0.1	0.2	<0.04	0.1	0.1	0.2	<0.04	<0.04	0.2	<0.04	<0.04
57-12-5	Cyanide	SOLID - INITIAL	0.26	mg/kg	mg/kg																				
71-43-2	Benzene	SOLID - INITIAL	0.0043	mg/kg	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
7439-92-1	Lead	SOLID - INITIAL	10.00	mg/kg	mg/kg	23.0	33.0	38.0	44.0	20.0	8.0	31.0	53.0	22.0	36.0	32.0	35.0	431.0	25.0	39.0	31.0	4.0	130.0	16.0	40.0
7439-97-6	Mercury	SOLID - INITIAL	0.50	mg/kg	mg/kg	<0.17	0.4	0.6	0.5	<0.17	0.6	0.5	0.4	1.0	1.0	1.1	1.3	5.3	0.7	0.6	0.8	0.7	0.2	<0.17	<0.17
7440-02-0	Nickel	SOLID - INITIAL	10.01	mg/kg	mg/kg	18.0	16.0	23.0	31.0	19.0	8.0	13.0	18.0	9.0	23.0	11.0	15.0	67.0	14.0	16.0	9.0	3.0	28.0	63.0	27.0
7440-36-0	Antimony	SOLID - INITIAL	1.26	mg/kg	mg/kg																				
7440-38-2	Arsenic	SOLID - INITIAL	5.00	mg/kg	mg/kg	5.0	3.0	3.0	4.0	7.0	<1	2.0	2.0	2.0	3.0	3.0	3.0	11.0	4.0	5.0	<1	<1	12.0	2.0	11.0
7440-41-7	Beryllium	SOLID - INITIAL	5.04	mg/kg	mg/kg	1.0	<1	<1	1.0	1.0	<1	<1	1.0	<1	<1	<1	<1	1.0	<1	1.0	<1	<1	1.0	2.0	1.0
7440-42-8	Boron	SOLID - INITIAL	8.69	mg/kg	mg/kg	<1.0	2.3	1.2	2.2	2.4	2.0	1.6	<1.0	<1.0	1.1	<1.0	1.8	15.8	1.1	<1.0	<1.0	<1.0	1.6	1.8	1.0
7440-43-9	Cadmium	SOLID - INITIAL	0.50	mg/kg	mg/kg	2.2	0.9	0.7	1.0	2.2	<0.5	0.8	<0.5	<0.5	<0.5	1.1	0.8	10.6	1.0	1.5	0.6	<0.5	2.5	3.4	2.5
7440-47-3	Chromium	SOLID - INITIAL	315.49	mg/kg	mg/kg	41.0	11.0	21.0	24.0	36.0	7.0	14.0	26.0	12.0	24.0	14.0	14.0	114.0	12.0	21.0	10.0	5.0	34.0	56.0	42.0
7440-50-8	Copper	SOLID - INITIAL	1002.92	mg/kg	mg/kg	13.0	32.0	32.0	39.0	12.0	7.0	27.0	28.0	35.0	46.0	30.0	29.0	294.0	29.0	29.0	19.0	3.0	30.0	27.0	21.0
7440-62-2	Vanadium	SOLID - INITIAL	1.01	mg/kg	mg/kg																				
7440-66-6	Zinc	SOLID - INITIAL	2507.30	mg/kg	mg/kg	41.0	103.0	57.0	58.0	39.0	23.0	65.0	68.0	72.0	76.0	82.0	66.0	1040.0	45.0	77.0	68.0	16.0	155.0	131.0	129.0
7782-49-2	Selenium	SOLID - INITIAL	0.50	mg/kg	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	2.0	<1	<1	<1	<1	<1	<1	<1	<1
83-32-9	Acenaphthene	SOLID - INITIAL	965.39	mg/kg	mg/kg	<0.01	<0.01	0.0	0.0	0.1	<0.01	<0.01	<0.10	<0.01	<0.01	<0.01	<0.01	<0.01	0.0	<0.01	<0.01	<0.01	<0.01	0.0	<0.01
85-01-8	Phenanthrene	SOLID - INITIAL	3.35	mg/kg	mg/kg	<0.03	<0.03	0.1	0.1	0.4	<0.03	<0.03	0.8	0.1	0.1	0.1	<0.03	0.1	0.1	0.2	0.1	<0.03	0.2	<0.03	<0.03
86-73-7	Fluorene	SOLID - INITIAL	1.76	mg/kg	mg/kg	<0.01	<0.01	0.0	0.1	0.2	<0.01	<0.01	<0.10	<0.01	<0.01	<0.01	<0.01	<0.01	0.0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
91-20-3	Napthalene	SOLID - INITIAL	0.08	mg/kg	mg/kg	<0.03	<0.03	<0.03	<0.03	0.1	<0.03	<0.03	<0.30	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
P1186	Phenol	SOLID - INITIAL	0.04	mg/kg	mg/kg																				
P1310	Pah, Total	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
P1334	pH	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
P1355	TPH Aromatic >C7-C8	SOLID - INITIAL	10.42	mg/kg	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
P1356	TPH Aromatic >C8-C10	SOLID - INITIAL	219.16	mg/kg	mg/kg																				
P1357	TPH Aromatic >C10-C12	SOLID - INITIAL	16.54	mg/kg	mg/kg	<0.1	<0.1	<0.1	<0.1	5.3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
P1358	TPH Aromatic >C12-C16	SOLID - INITIAL	32.96	mg/kg	mg/kg	<0.1	<0.1	<0.1	1.5	13.4	<0.1	<0.1	0.7	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
P1359	TPH Aromatic >C16-C21	SOLID - INITIAL	82.76	mg/kg	mg/kg	<0.1	<0.1	<0.1	9.6	11.1	<0.1	<0.1	19.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.7	<0.1	<0.1
P1360	TPH Aromatic >C21-C35	SOLID - INITIAL	657.18	mg/kg	mg/kg	<0.1	<0.1	<0.1	35.2	12.0	<0.1	<0.1	188.0	<0.1	0.6	<0.1	<0.1	<0.1	<0.1	1.9	<0.1	<0.1	7.1	<0.1	<0.1

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Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	Hole Ref																				
						PFCPRC25	PFCPRC25	PFCPRC25	PFCPRC25	PFCPRC26	PFCPRC26	PFCPRC26	PFCPRC27	PFCPRC27	PFCPRC27	PFCPRC28	PFCPRC28	PFCPRC28	PFCPRC28	PFCPRC29	PFCPRC29	PFCPRC29	PFCPRC37	PFCPRC37	PFCPRC37	
						1.00	12.00	4.00	6.00	0.60	12.00	6.00	0.60	2.00	8.00	1.00	11.00	14.80	9.00	0.70	4.00	7.00	1.00	10.00	3.00	
						MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	CWF	MG	
						3	14	6	8	2	15	9	3	6	12	3	13	17	11	2	6	9	3	12	5	
						ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	
98-06-6	Tert-Butylbenzene	SOLID - INITIAL	0.75	mg/kg	mg/kg																					
98-82-8	Isopropylbenzene	SOLID - INITIAL	0.27	mg/kg	mg/kg																					
99-09-2	3-Nitroaniline	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
99-65-0	M-Dinitrobenzene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
99-87-6	4-Isopropyltoluene	SOLID - INITIAL	54.06	mg/kg	mg/kg																					
P1374	xylene	SOLID - INITIAL	0.23	mg/kg	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
18540-29-9	chromium hexavalent	SOLID - INITIAL	0.02	mg/kg	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
P1095	Cyanide Free	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
P1239	Complex Cyanide	SOLID - INITIAL	0.26	mg/kg	mg/kg																					
31508-00-6	PCB-118 2,3,4,4,5 - Pentachlorobiphenyl	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
32598-13-3	PCB 77	SOLID - INITIAL	6185.41	mg/kg	mg/kg																					
32598-14-4	PCB 105	SOLID - INITIAL	8940.63	mg/kg	mg/kg																					
32774-16-6	PCB 169	SOLID - INITIAL	37270.75	mg/kg	mg/kg																					
38380-08-4	PCB-156 2,3,3,4,4,5 - Hexachlorobiphenyl	SOLID - INITIAL	3172.26	mg/kg	mg/kg																					
39635-31-9	PCB 189	SOLID - INITIAL	270002.64	mg/kg	mg/kg																					
52663-72-6	PCB 167	SOLID - INITIAL	45853.03	mg/kg	mg/kg																					
57465-28-8	PCB 126	SOLID - INITIAL	8940.63	mg/kg	mg/kg																					
65510-44-3	PCB 123	SOLID - INITIAL	8940.63	mg/kg	mg/kg																					
69782-90-7	PCB 157	SOLID - INITIAL	45853.03	mg/kg	mg/kg																					
70362-50-4	PCB 81	SOLID - INITIAL	8940.63	mg/kg	mg/kg																					
74472-37-0	PCB 114	SOLID - INITIAL	8940.63	mg/kg	mg/kg																					
100-02-7	4-Nitrophenol	SOLID	0.04	mg/kg	ug/kg																					
100-41-4	Ethylbenzene	SOLID	0.53	mg/kg	ug/kg				<1	<1							<1	<1					<1			
100-42-5	Styrene	SOLID	1.04	mg/kg	ug/kg				<1	<1							<1	<1					<1			
10061-01-5	cis 1,3-Dichloropropene	SOLID	#N/A	mg/kg	ug/kg				<1	<1							<1	<1					<1			
10061-02-6	trans 1,3-Dichloropropene	SOLID	#N/A	mg/kg	ug/kg				<1	<1							<1	<1					<1			
103-65-1	Propylbenzene	SOLID	0.28	mg/kg	ug/kg				<1	<1							<1	<1					<1			
104-51-8	n-Butylbenzene	SOLID	1.39	mg/kg	ug/kg				<1	<1							<1	<1					<1			
105-67-9	2,4-Dimethylphenol	SOLID	1.18	mg/kg	ug/kg																					
106-43-4	4-Chlorotoluene	SOLID	#N/A	mg/kg	ug/kg				<1	<1							<1	<1					<1			
106-44-5	4-Methylphenol	SOLID	0.53	mg/kg	ug/kg																					
106-46-7	1,4-Dichlorobenzene	SOLID	48.01	mg/kg	ug/kg				<1	<1							<1	<1					<1			
106-93-4	1,2-Dibromoethane	SOLID	#N/A	mg/kg	ug/kg				<1	<1							<1	<1					<1			
107-06-2	1,2-Dichloroethane	SOLID	#N/A	mg/kg	ug/kg				<2	<2							<2	<2					<2			
108-67-8	1,3,5-Trimethylbenzene	SOLID	0.15	mg/kg	ug/kg				<1	5.0							<1	<1					<1			
108-86-1	Bromobenzene	SOLID	#N/A	mg/kg	ug/kg				<1	<1							<1	<1					<1			
108-88-3	Toluene	SOLID	0.88	mg/kg	ug/kg				<1	<1							<1	<1					<1			
108-90-7	Chlorobenzene	SOLID	4.46	mg/kg	ug/kg				<1	<1							<1	<1					<1			
108-95-2	Phenol	SOLID	0.04	mg/kg	ug/kg																					
111-44-4	Bis(2-chloroethyl)ether	SOLID	#N/A	mg/kg	ug/kg																					
111-91-1	Bis(2-chloroethoxy)methane	SOLID	0.01	mg/kg	ug/kg																					
117-81-7	Bis(2-ethylhexyl)phthalate	SOLID	18472.17	mg/kg	ug/kg																					
117-84-0	n-Diethylphthalate	SOLID	146035.35	mg/kg	ug/kg																					
118-74-1	Hexachlorobenzene	SOLID	0.23	mg/kg	ug/kg																					
120-82-1	1,2,4-Trichlorobenzene	SOLID	1.81	mg/kg	ug/kg				<3	<3							<3	<3					<3			
120-83-2	2,4-Dichlorophenol	SOLID	0.28	mg/kg	ug/kg																					
121-14-2	2,4-Dinitrotoluene	SOLID	0.00	mg/kg	ug/kg																					
124-48-1	Dibromochloromethane	SOLID	#N/A	mg/kg	ug/kg				<3	<3							<3	<3					<3			
127-18-4	Tetrachloroethene	SOLID	1.46	mg/kg	ug/kg				<1	<1							<1	<1					<1			
131-11-3	Dimethyl phthalate	SOLID	#N/A	mg/kg	ug/kg																					
132-64-9	Dibenzofuran	SOLID	0.49	mg/kg	ug/kg																					
135-98-8	sec-Butylbenzene	SOLID	1.39	mg/kg	ug/kg				<1	<1							<1	<1					<1			
142-28-9	1,3-Dichloropropane	SOLID	#N/A	mg/kg	ug/kg				<1	<1							<1	<1					<1			
156-59-2	cis 1,2-Dichloroethene	SOLID	0.31	mg/kg	ug/kg				<1	<1							<1	<1					<1			
156-60-5	trans 1,2-Dichloroethene	SOLID	#N/A	mg/kg	ug/kg				<1	<1							<1	<1					<1			
198-55-0	Perylene	SOLID	206.28	mg/kg	ug/kg																					
39638-32-9	Bis(2-chloroisopropyl)ether	SOLID	#N/A	mg/kg	ug/kg																					
541-73-1	1,3-Dichlorobenzene	SOLID	145.60	mg/kg	ug/kg				<1	<1							<1	<1					<1			
56-23-5	Carbon Tetrachloride	SOLID	#N/A	mg/kg	ug/kg				<1	<1							<1	<1					<1			
563-58-6	1,1-Dichloropropene	SOLID	0.41	mg/kg	ug/kg				<1	<1							<1	<1					<1			
594-20-7	2,2-Dichloropropane	SOLID	#N/A	mg/kg	ug/kg				<1	<1							<1	<1					<1			
59-50-7	4-Chloro-3-methylphenol	SOLID	2.93	mg/kg																						

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Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	Hole Ref	PFCPRC25	PFCPRC25	PFCPRC25	PFCPRC25	PFCPRC26	PFCPRC26	PFCPRC26	PFCPRC27	PFCPRC27	PFCPRC27	PFCPRC28	PFCPRC28	PFCPRC28	PFCPRC28	PFCPRC29	PFCPRC29	PFCPRC29	PFCPRC37	PFCPRC37	PFCPRC37
						Sample Top	Sample Ref	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
71-55-6	1,1,1-Trichloroethane	SOLID	#N/A	mg/kg	ug/kg						<1	<1								<1	<1					<1
7440-39-3	Barium	SOLID	78.73	mg/kg	mg/kg		95.0	284.0	299.0	330.0	80.0	63.0	473.0	310.0	488.0	616.0	764.0	537.0	996.0	296.0	398.0	311.0	48.0	196.0	132.0	95.0
74-83-9	Bromomethane	SOLID	#N/A	mg/kg	ug/kg						<1	<1								<1	<1					<1
74-87-3	Chloromethane	SOLID	0.02	mg/kg	ug/kg						<10	<10								<10	<10					<10
74-95-3	Dibromomethane	SOLID	#N/A	mg/kg	ug/kg						<1	<1								<1	<1					<1
74-97-5	Bromochloromethane	SOLID	#N/A	mg/kg	ug/kg						<5	<5								<5	<5					<5
75-00-3	Chloroethane	SOLID	#N/A	mg/kg	ug/kg						<1	<1								<1	<1					<1
75-01-4	Vinyl Chloride	SOLID	#N/A	mg/kg	ug/kg						<1	<1								<1	<1					<1
75-09-2	Dichloromethane	SOLID	0.03	mg/kg	ug/kg						<5	<5								<5	<5					<5
75-15-0	Carbon Disulphide	SOLID	0.07	mg/kg	ug/kg						1.0	<1								<1	<1					<1
75-25-2	Bromoform	SOLID	#N/A	mg/kg	ug/kg						<1	<1								<1	<1					<1
75-27-4	Bromodichloromethane	SOLID	#N/A	mg/kg	ug/kg						<10	<10								<10	<10					<10
75-34-3	1,1-Dichloroethane	SOLID	0.01	mg/kg	ug/kg						<1	<1								<1	<1					<1
75-35-4	1,1-Dichloroethene	SOLID	#N/A	mg/kg	ug/kg						<1	<1								<1	<1					<1
75-69-4	Trichlorofluoromethane	SOLID	0.05	mg/kg	ug/kg						<1	<1								<1	<1					<1
75-71-8	Dichlorodifluoromethane	SOLID	#N/A	mg/kg	ug/kg						<1	<1								<1	<1					<1
77-47-4	Hexachlorocyclopentadiene	SOLID	#N/A	mg/kg	ug/kg																					
78-59-1	Isophorone	SOLID	22.26	mg/kg	ug/kg																					
78-87-5	1,2-Dichloropropane	SOLID	#N/A	mg/kg	ug/kg						<1	<1								<1	<1					<1
79-00-5	1,1,2-Trichloroethane	SOLID	#N/A	mg/kg	ug/kg						<1	<1								<1	<1					<1
79-01-6	Trichloroethene	SOLID	0.09	mg/kg	ug/kg						<1	<1								<1	<1					<1
79-34-5	1,1,2,2-Tetrachloroethane	SOLID	2.66	mg/kg	ug/kg						<1	<1								<1	<1					<1
84-66-2	Diethyl phthalate	SOLID	3.11	mg/kg	ug/kg																					
84-74-2	Di-N-Butyl Phthalate	SOLID	0.52	mg/kg	ug/kg																					
85-68-7	Butylbenzyl phthalate	SOLID	23.36	mg/kg	ug/kg																					
86-74-8	Carbazole	SOLID	0.01	mg/kg	ug/kg																					
87-61-6	1,2,3-Trichlorobenzene	SOLID	#N/A	mg/kg	ug/kg						<3	<3								<3	<3					<3
87-68-3	Hexachlorobutadiene	SOLID	#N/A	mg/kg	ug/kg						<1	<1								<1	<1					<1
87-86-5	Pentachlorophenol	SOLID	2.17	mg/kg	ug/kg																					
88-06-2	2,4,6-Trichlorophenol	SOLID	#N/A	mg/kg	ug/kg																					
88-75-5	2-Nitrophenol	SOLID	0.03	mg/kg	ug/kg																					
91-57-6	2-Methylnaphthalene (SVOC) DEFAULT	SOLID	0.84	mg/kg	ug/kg																					
91-58-7	2-Chloronaphthalene	SOLID	0.92	mg/kg	ug/kg																					
95-47-6	Xylene	SOLID	0.23	mg/kg	ug/kg						<1	<1								<1	<1					<1
95-48-7	2-Methylphenol	SOLID	0.54	mg/kg	ug/kg																					
95-49-8	2-Chlorotoluene	SOLID	#N/A	mg/kg	ug/kg						<1	<1								<1	<1					<1
95-50-1	1,2-Dichlorobenzene	SOLID	40.42	mg/kg	ug/kg						<1	<1								<1	<1					<1
95-57-8	2-Chlorophenol	SOLID	#N/A	mg/kg	ug/kg																					
95-63-6	1,2,4-Trimethylbenzene	SOLID	0.25	mg/kg	ug/kg						<1	<1								<1	<1					<1
95-95-4	2,4,5-Trichlorophenol	SOLID	60.93	mg/kg	ug/kg																					
96-12-8	1,2-Dibromo-3-chloropropane	SOLID	#N/A	mg/kg	ug/kg						<2	<2								<2	<2					<2
96-18-4	1,2,3-Trichloropropane	SOLID	0.44	mg/kg	ug/kg						<1	<1								<1	<1					<1
98-06-6	tert-Butylbenzene	SOLID	0.75	mg/kg	ug/kg						<2	<2								<2	<2					<2
98-82-8	Isopropylbenzene	SOLID	0.27	mg/kg	ug/kg						<1	<1								<1	<1					<1
98-95-3	Nitrobenzene	SOLID	0.00	mg/kg	ug/kg																					
99-87-6	4-Isopropyltoluene	SOLID	54.06	mg/kg	ug/kg						<1	<1								<1	<1					<1
P1374	Xylene	SOLID	0.23	mg/kg	ug/kg						<1	<1								<1	<1					<1
P1762	TPH Aromatic >C8-C10	SOLID	219.16	mg/kg	mg/kg		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
P1763	TPH Aromatic >C8-C10	SOLID	219.16	mg/kg	mg/kg		<0.01	<0.01	<0.01	0.0	0.2	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
P1334	pH	SOLID	#N/A	mg/kg	pH		7.8	8.3	8.2	8.2	7.7	8.3	8.2	8.7	8.3	8.2	8.2	8.3	7.4	8.1	8.5	8.3	8.6	8.2	7.5	7.8
101-21-3	Chlorpropham	SOLID	#N/A	mg/kg	mg/kg																					
1014-70-6	Simetryn SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																					
1024-57-3	Heptachlor Epoxide	SOLID	#N/A	mg/kg	ug/kg																					
1031-07-8	Endosulphan Sulphate	SOLID	#N/A	mg/kg	ug/kg																					
117-18-0	Tecnazene	SOLID	#N/A	mg/kg	ug/kg																					
120-36-5	2,4-DP; (Dichlorprop)	SOLID	#N/A	mg/kg	mg/kg																					
121-75-5	Malathion	SOLID	#N/A	mg/kg	ug/kg																					
122-14-5	Fenitrothion	SOLID	#N/A	mg/kg	ug/kg																					
122-34-9	Simazine SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																					
122-42-9	Propham	SOLID	#N/A	mg/kg	mg/kg																					
122-88-3	4-CPA	SOLID	#N/A	mg/kg	mg/kg																					
13684-63-4	Phenmedipham	SOLID	#N/A	mg/kg	mg/kg																					
139-40-2	Propazine SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																					

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Hole Ref	PFCPRC25	PFCPRC25	PFCPRC25	PFCPRC25	PFCPRC26	PFCPRC26	PFCPRC26	PFCPRC27	PFCPRC27	PFCPRC27	PFCPRC28	PFCPRC28	PFCPRC28	PFCPRC28	PFCPRC29	PFCPRC29	PFCPRC29	PFCPRC37	PFCPRC37	PFCPRC37
Sample Top	1.00	12.00	4.00	6.00	0.60	12.00	6.00	0.60	2.00	8.00	1.00	11.00	14.80	9.00	0.70	4.00	7.00	1.00	10.00	3.00
Lookup soil	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	CWF	MG
Sample Ref	3	14	6	8	2	15	9	3	6	12	3	13	17	11	2	6	9	3	12	5
Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES

Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	PFCPRC25	PFCPRC25	PFCPRC25	PFCPRC25	PFCPRC26	PFCPRC26	PFCPRC26	PFCPRC27	PFCPRC27	PFCPRC27	PFCPRC28	PFCPRC28	PFCPRC28	PFCPRC28	PFCPRC29	PFCPRC29	PFCPRC29	PFCPRC37	PFCPRC37	PFCPRC37
1610-18-0	Prometon SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																				
16118-49-3	Carbetamide	SOLID	#N/A	mg/kg	mg/kg																				
1689-83-4	loxynil	SOLID	#N/A	mg/kg	mg/kg																				
1689-84-5	Bromoxynil	SOLID	#N/A	mg/kg	mg/kg																				
1702-17-6	Clopyralid	SOLID	#N/A	mg/kg	mg/kg																				
1746-81-2	Monolinuron	SOLID	#N/A	mg/kg	mg/kg																				
18691-97-9	Methabenzthiazuron	SOLID	#N/A	mg/kg	mg/kg																				
1897-45-6	Chlorothalonil	SOLID	#N/A	mg/kg	ug/kg																				
1912-24-9	Atrazine SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																				
1918-00-9	Dicamba	SOLID	#N/A	mg/kg	mg/kg																				
6607	Picloram	SOLID	#N/A	mg/kg	mg/kg																				
1967-16-4	Chlorbufam	SOLID	#N/A	mg/kg	mg/kg																				
1982-47-4	Chloroxuron	SOLID	#N/A	mg/kg	mg/kg																				
19937-59-8	Metoxuron	SOLID	#N/A	mg/kg	mg/kg																				
2132-70-9	p,p-Methoxychlor	SOLID	#N/A	mg/kg	ug/kg																				
2274-67-1	Chlorpyrifos-methyl	SOLID	#N/A	mg/kg	ug/kg																				
2303-17-5	Triallate	SOLID	#N/A	mg/kg	ug/kg																				
2310-17-0	Phosalone	SOLID	#N/A	mg/kg	ug/kg																				
23103-98-2	Pirimicarb	SOLID	#N/A	mg/kg	mg/kg																				
24017-47-8	Triazophos	SOLID	#N/A	mg/kg	ug/kg																				
25057-89-0	Bentazone	SOLID	#N/A	mg/kg	mg/kg																				
2642-71-9	Azinphos-ethyl	SOLID	#N/A	mg/kg	ug/kg																				
2921-88-2	Chlorpyrifos	SOLID	#N/A	mg/kg	ug/kg																				
29232-93-7	Pirimiphos Methyl	SOLID	#N/A	mg/kg	ug/kg																				
297-78-9	Telodrin	SOLID	#N/A	mg/kg	ug/kg																				
298-00-0	Methyl Parathion	SOLID	#N/A	mg/kg	ug/kg																				
298-01-1	Mevinphos	SOLID	#N/A	mg/kg	ug/kg																				
298-04-4	Disulfoton SUBCON OCP Alcontrol	SOLID	#N/A	mg/kg	ug/kg																				
29973-13-5	Ethiofencarb	SOLID	#N/A	mg/kg	mg/kg																				
30667-99-3	o,p-Methoxychlor	SOLID	#N/A	mg/kg	ug/kg																				
309-00-2	Aldrin SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																				
31218-83-4	Propetamphos	SOLID	#N/A	mg/kg	ug/kg																				
314-40-9	Bromacil	SOLID	#N/A	mg/kg	mg/kg																				
319-84-6	alpha-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																				
	beta-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																				
319-85-7		SOLID	#N/A	mg/kg	ug/kg																				
330-54-1	Diuron SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																				
330-55-2	Linuron	SOLID	#N/A	mg/kg	mg/kg																				
33213-65-9	Endosulphan II	SOLID	#N/A	mg/kg	ug/kg																				
333-41-5	Diazinon	SOLID	#N/A	mg/kg	ug/kg																				
34123-59-6	Isoproturon	SOLID	#N/A	mg/kg	mg/kg																				
34205-21-5	Dimefuron	SOLID	#N/A	mg/kg	mg/kg																				
3424-82-6	o,p-DDE	SOLID	#N/A	mg/kg	ug/kg																				
35367-38-5	Diflufenzuron	SOLID	#N/A	mg/kg	mg/kg																				
698836	Benazolin	SOLID	#N/A	mg/kg	mg/kg																				
38260-54-7	Etrimpfos	SOLID	#N/A	mg/kg	ug/kg																				
40483-25-2	Diclofop	SOLID	#N/A	mg/kg	mg/kg																				
40487-42-1	Pendimethalin	SOLID	#N/A	mg/kg	ug/kg																				
43121-43-3	Triadimefon	SOLID	#N/A	mg/kg	ug/kg																				
465-73-6	Isodrin	SOLID	#N/A	mg/kg	ug/kg																				
470-90-6	Chlorfenvinphos	SOLID	#N/A	mg/kg	ug/kg																				
50-29-3	p,p-DDT SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																				
50-31-7	2,3,6-TBA	SOLID	#N/A	mg/kg	mg/kg																				
5103-71-9	cis-Chlordane SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																				
5103-74-2	trans-Chlordane SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																				
51630-58-1	Fenvalerate SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																				
52315-07-8	Cypermethrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																				
52645-53-1	Permethrin SUBCON RPS MH Pyrethroids	SOLID	#N/A	mg/kg	mg/kg																				
52756-22-6	Flamprop-isopropyl	SOLID	#N/A	mg/kg	mg/kg																				
52918-63-5	Deltamethrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																				
53-19-0	o,p-TDE (DDD)	SOLID	#N/A	mg/kg	ug/kg																				
55335-06-3	Triclopyr	SOLID	#N/A	mg/kg	mg/kg																				
55-38-9	Fenthion	SOLID	#N/A	mg/kg	ug/kg																				
563-12-2	Ethion	SOLID	#N/A	mg/kg	ug/kg																				
56-38-2	Parathion (Ethyl Parathion)	SOLID	#N/A	mg/kg	ug/kg																				
58667-63-3	Fiamprop	SOLID	#N/A	mg/kg	mg/kg																				

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Hole Ref	PFCPRC25	PFCPRC25	PFCPRC25	PFCPRC25	PFCPRC26	PFCPRC26	PFCPRC26	PFCPRC26	PFCPRC27	PFCPRC27	PFCPRC27	PFCPRC28	PFCPRC28	PFCPRC28	PFCPRC28	PFCPRC29	PFCPRC29	PFCPRC29	PFCPRC37	PFCPRC37	PFCPRC37
Sample Top	1.00	12.00	4.00	6.00	0.60	12.00	6.00	0.60	2.00	8.00	1.00	11.00	14.80	9.00	0.70	4.00	7.00	1.00	10.00	3.00	
Lookup soil	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	CWF	MG
Sample Ref	3	14	6	8	2	15	9	3	6	12	3	13	17	11	2	6	9	3	12	5	
Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
58-89-9	gamma-Hexachlorocyclohexane (HCH / Lindane)	SOLID	#N/A	mg/kg	ug/kg																
5915-41-3	Terbutylazine SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																
60-51-5	Dimethoate	SOLID	#N/A	mg/kg	ug/kg																
60-57-1	Dieldrin SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																
61949-76-6	Permethrin I (cis) SUBCON Alcontrol OCP	SOLID	#N/A	mg/kg	ug/kg																
61949-77-7	Permethrin II (trans) SUBCON Alcontrol OCP	SOLID	#N/A	mg/kg	ug/kg																
62-73-7	Dichlorvos	SOLID	#N/A	mg/kg	ug/kg																
639-58-7	Triphenyltin SUBCON I2	SOLID	#N/A	mg/kg	ug/kg																
66063-05-6	Pencycuron	SOLID	#N/A	mg/kg	mg/kg																
68085-85-8	Cyhalothrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																
683-18-1	Dibutyltin Subcon I2	SOLID	#N/A	mg/kg	ug/kg																
68359-37-5	Cyfluthrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																
72-20-8	Endrin SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																
72-54-8	p,p-TDE (DDD)	SOLID	#N/A	mg/kg	ug/kg																
72-55-9	p,p-DDE	SOLID	#N/A	mg/kg	ug/kg																
7287-19-6	Prometryn SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																
76-44-8	Heptachlor SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																
786-19-6	Carbophenothion	SOLID	#N/A	mg/kg	ug/kg																
789-02-6	o,p-DDT SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																
81406-37-3	Fluroxypyr	SOLID	#N/A	mg/kg	mg/kg																
82-68-8	Quintozene; (PCNB)	SOLID	#N/A	mg/kg	ug/kg																
834-12-8	Ametryn SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																
86-50-0	Azinphos-methyl	SOLID	#N/A	mg/kg	ug/kg																
886-50-0	Terbutryn SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																
93-65-2	MCPP; (Mecoprop)	SOLID	#N/A	mg/kg	mg/kg																
93-72-1	2,4,5-TP; (Fenoprop); (Silvex)	SOLID	#N/A	mg/kg	mg/kg																
93-76-5	2,4,5-T	SOLID	#N/A	mg/kg	mg/kg																
94-74-6	MCPA	SOLID	#N/A	mg/kg	mg/kg																
94-75-7	2,4-D	SOLID	#N/A	mg/kg	mg/kg																
94-81-5	MCPB	SOLID	#N/A	mg/kg	mg/kg																
94-82-6	2,4-DB	SOLID	#N/A	mg/kg	mg/kg																
959-98-8	Endosulphan I	SOLID	#N/A	mg/kg	ug/kg																
P1362	TPH Aromatic >C35-C44	SOLID	657.18	mg/kg	mg/kg																
P1415	TPH Aliphatic >C35-C44	SOLID	6927070.30	mg/kg	mg/kg																
120-12-7	Anthracene	SOLID	0.16	mg/kg	ug/kg																
129-00-0	Pyrene	SOLID	1.88	mg/kg	ug/kg																
191-24-2	Benzo(g,h,i)perylene	SOLID	2.42	mg/kg	ug/kg																
193-39-5	Indeno(1,2,3-cd)pyrene	SOLID	0.51	mg/kg	ug/kg																
205-99-2	Benzo(b)fluoranthene	SOLID	0.61	mg/kg	ug/kg																
206-44-0	Fluoranthene	SOLID	0.01	mg/kg	ug/kg																
207-08-9	Benzo(k)fluoranthene	SOLID	0.86	mg/kg	ug/kg																
208-96-8	Acenaphthylene	SOLID	1.01	mg/kg	ug/kg																
218-01-9	Chrysene	SOLID	6.38	mg/kg	ug/kg																
50-32-8	Benzo(a)pyrene	SOLID	0.07	mg/kg	ug/kg																
53-70-3	Dibenzo(a,h)anthracene	SOLID	10.80	mg/kg	ug/kg																
56-55-3	Benzo(a)anthracene	SOLID	4.50	mg/kg	ug/kg																
83-32-9	Acenaphthene	SOLID	965.39	mg/kg	ug/kg																
85-01-8	Phenanthrene	SOLID	3.35	mg/kg	ug/kg																
86-73-7	Fluorene	SOLID	1.76	mg/kg	ug/kg																
91-20-3	Napthalene	SOLID	0.08	mg/kg	ug/kg																
302-04-5	Thiocyanate	SOLID	62.96	mg/kg	mg/kg																
P1879	Xylenols	SOLID - INITIAL	2.39	mg/kg	mg/kg																
P2098	Cresols	SOLID - INITIAL	0.54	mg/kg	mg/kg																
12001-28-4	Asbestos: Crocidolite	SOLID - INITIAL	#N/A	mg/kg	No units																
12001-29-5	Asbestos: Chrysotile	SOLID - INITIAL	#N/A	mg/kg	No units																
12172-67-7	Asbestos: Actinolite	SOLID - INITIAL	#N/A	mg/kg	No units																
12172-73-5	Asbestos: Amosite	SOLID - INITIAL	#N/A	mg/kg	No units																
14567-73-8	Asbestos: Tremolite	SOLID - INITIAL	#N/A	mg/kg	No units																
17068-78-9	Asbestos: Anthophyllite	SOLID - INITIAL	#N/A	mg/kg	No units																
1002-53-5	Dibutyl Tin	SOLID - INITIAL	0.00	mg/kg	mg/kg																
1461-22-9	Tributyltin	SOLID - INITIAL	0.00	mg/kg	mg/kg																
1461-25-2	Tetraethyl Tin	SOLID - INITIAL	0.00	mg/kg	mg/kg																
1634-04-4	Methyl tert-butyl ether (MTBE)	SOLID - INITIAL	#N/A	mg/kg	ug/kg																
1746-01-6	2,3,7,8-Tetrachlorodibenzo-p-dioxin	SOLID - INITIAL	#N/A	mg/kg	ng/g																
181274-15-7	Propoxycarbazono-sodium	SOLID - INITIAL	#N/A	mg/kg	mg/kg																
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-P-Dioxin	SOLID - INITIAL	94064.99	mg/kg	ng/g																
298-02-2	Phorate	SOLID - INITIAL	#N/A	mg/kg	ug/kg																

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					Hole Ref	PFCPRC25	PFCPRC25	PFCPRC25	PFCPRC25	PFCPRC26	PFCPRC26	PFCPRC26	PFCPRC27	PFCPRC27	PFCPRC27	PFCPRC28	PFCPRC28	PFCPRC28	PFCPRC28	PFCPRC29	PFCPRC29	PFCPRC29	PFCPRC37	PFCPRC37	PFCPRC37
					Sample Top	1.00	12.00	4.00	6.00	0.60	12.00	6.00	0.60	2.00	8.00	1.00	11.00	14.80	9.00	0.70	4.00	7.00	1.00	10.00	3.00
					Lookup soil	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	CWF	MG
					Sample Ref	3	14	6	8	2	15	9	3	6	12	3	13	17	11	2	6	9	3	12	5
Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	
103-33-3	Azobenzene	SOLID - INITIAL	0.38	mg/kg	ug/kg																				
106-47-8	4-Chloroaniline	SOLID - INITIAL	0.01	mg/kg	ug/kg																				
700-57-23	4-Chlorophenylphenylether	SOLID - INITIAL	#N/A	mg/kg	ug/kg																				
88-74-4	2-Nitroaniline	SOLID - INITIAL	0.01	mg/kg	ug/kg																				
99-09-2	3-Nitroaniline	SOLID - INITIAL	#N/A	mg/kg	ug/kg																				
994-05-8	Tertiary Amyl Methyl Ether	SOLID - INITIAL	#N/A	mg/kg	ug/kg																				
1336-36-6	PCB Total (WAC only)	SOLID	#N/A	mg/kg	mg/kg																				
P1330	BTEX (total) WAC	SOLID	#N/A	mg/kg	mg/kg																				

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Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	Hole Ref	PFCPRC37	PFCPRC37	PFCPRC38 (SP)	PFCPRC39	PFCPRC39	PFCPRC39	PFCPRC39	PFCPRC40 (SP)	PFCPRC40 (SP)	PFCPRC40 (SP)	PFCPRC40 (SP)	PFCPRC40 (SP)	PFCPRC41	PFCPRC41	PFCPRC41	PFCPRC41 A (SP)	PFCPRC42 (SP)	PFCPRC42 (SP)	PFCPRC43 (SP)	PFCPRC43 (SP)	
						Sample Top	Lookup soil	Sample Ref	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
108-67-8	1,3,5-Trimethylbenzene	SOLID - INITIAL	0.15	mg/kg	mg/kg																						
108-86-1	Bromobenzene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
108-90-7	Chlorobenzene	SOLID - INITIAL	4.46	mg/kg	mg/kg																						
108-95-2	Phenol	SOLID - INITIAL	0.04	mg/kg	mg/kg																						
111-91-1	Bis(2-chloroethoxy)methane	SOLID - INITIAL	0.01	mg/kg	mg/kg																						
117-81-7	Bis(2-ethylhexyl)phthalate	SOLID - INITIAL	18472.17	mg/kg	mg/kg																						
117-84-0	Di-N-Octyl Phthalate	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
118-74-1	Hexachlorobenzene (HCB)	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
120-82-1	1,2,4-Trichlorobenzene	SOLID - INITIAL	1.81	mg/kg	mg/kg																						
120-83-2	2,4-Dichlorophenol	SOLID - INITIAL	0.28	mg/kg	mg/kg																						
121-14-2	2,4-Dinitrotoluene	SOLID - INITIAL	0.00	mg/kg	mg/kg																						
122-39-4	Diphenylamine	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
124-48-1	Dibromochloromethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
127-18-4	Tetrachloroethene	SOLID - INITIAL	1.46	mg/kg	mg/kg																						
131-11-3	Dimethylphthalate	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
132-64-9	Dibenzofuran	SOLID - INITIAL	0.49	mg/kg	mg/kg																						
135-98-8	Sec-Butylbenzene	SOLID - INITIAL	1.39	mg/kg	mg/kg																						
142-28-9	1,3-Dichloropropane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
156-59-2	cis-1,2-Dichloroethene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
156-60-5	trans-1,2-Dichloroethene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
1634-04-4	Methyl tert-butyl ether (MTBE)	SOLID - INITIAL	#N/A	mg/kg	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
39638-32-9	Bis(2-chloroisopropyl)ether	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
528-29-0	O-Dinitrobenzene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
534-52-1	2-Methyl-4,6-Dinitrophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
541-73-1	1,3-Dichlorobenzene	SOLID - INITIAL	145.60	mg/kg	mg/kg																						
56-23-5	Tetrachloromethane (Carbon Tetra Chloride)	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
563-58-6	1,1-Dichloropropene	SOLID - INITIAL	0.41	mg/kg	mg/kg																						
58-90-2	2,3,4,6-Tetrachlorophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
594-20-7	2,2-Dichloropropane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
59-50-7	4-Chloro-3-Methylphenol	SOLID - INITIAL	2.93	mg/kg	mg/kg																						
606-20-2	2,6-Dinitrotoluene	SOLID - INITIAL	1.48	mg/kg	mg/kg																						
62-53-3	Aniline	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
630-20-6	1,1,1,2-Tetrachloroethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
67-66-3	Chloroform	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
700-57-23	4-Chlorophenyl Phenyl Ether	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
71-55-6	1,1,1-Trichloroethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
74-95-3	Dibromomethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
74-97-5	Bromochloromethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
75-01-4	Chloroethene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
75-25-2	Tribromomethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
75-27-4	Bromodichloromethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
75-34-3	1,1-Dichloroethane	SOLID - INITIAL	0.01	mg/kg	mg/kg																						
75-35-4	1,1-Dichloroethene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
77-47-4	Hexachlorocyclopentadiene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
78-87-5	1,2-Dichloropropane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
79-00-5	1,1,2-Trichloroethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
79-01-6	Trichloroethene	SOLID - INITIAL	0.09	mg/kg	mg/kg																						
84-66-2	Diethylphthalate	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
84-74-2	Di-N-Butyl Phthalate	SOLID - INITIAL	0.52	mg/kg	mg/kg																						
85-68-7	Butylbenzylphthalate	SOLID - INITIAL	23.36	mg/kg	mg/kg																						
86-74-8	Carbazole	SOLID - INITIAL	0.01	mg/kg	mg/kg																						
87-61-6	1,2,3 Trichlorobenzene	SOLID - INITIAL	0.26	mg/kg	mg/kg																						
87-68-3	Hexachlorobutadiene (HCBd)	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
87-86-5	Pentachlorophenol (PCP)	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
88-06-2	2,4,6-Trichlorophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
88-74-4	2-Nitroaniline	SOLID - INITIAL	0.01	mg/kg	mg/kg																						
91-57-6	2-Methylnaphthalene	SOLID - INITIAL	0.84	mg/kg	mg/kg																						
91-58-7	2-Chloronaphthalene	SOLID - INITIAL	0.92	mg/kg	mg/kg																						
935-95-5	2,3,5,6-Tetrachlorophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
95-47-6	Xylene	SOLID - INITIAL	0.23	mg/kg	mg/kg	0.0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.0	0.1	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
95-48-7	2-Methylphenol	SOLID - INITIAL	0.54	mg/kg	mg/kg																						
95-49-8	2-Chlorotoluene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
95-50-1	1,2-Dichlorobenzene	SOLID - INITIAL	40.42	mg/kg	mg/kg																						
95-57-8	2-Chlorophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
95-63-6	1,2,4-Trimethylbenzene	SOLID - INITIAL	0.25	mg/kg	mg/kg																						
95-95-4	2,4,5-Trichlorophenol	SOLID - INITIAL	60.93	mg/kg	mg/kg																						
96-12-8	1,2-Dibromo-3-Chloropropane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
96-18-4	1,2,3-Trichloropropane	SOLID - INITIAL	0.44	mg/kg	mg/kg																						

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Hole Ref	PFCPRC37	PFCPRC37	PFCPRC38 (SP)	PFCPRC39	PFCPRC39	PFCPRC39	PFCPRC39	PFCPRC39	PFCPRC40 (SP)	PFCPRC40 (SP)	PFCPRC40 (SP)	PFCPRC40 (SP)	PFCPRC40 (SP)	PFCPRC41	PFCPRC41	PFCPRC41	PFCPRC41 A (SP)	PFCPRC42 (SP)	PFCPRC42 (SP)	PFCPRC43 (SP)	PFCPRC43 (SP)
Sample Top	6.00	8.00	0.70	0.60	3.00	4.00	9.00	0.60	14.50	2.00	4.70	9.70	3.50	6.80	9.50	15.50	0.90	4.00	0.50	1.80	
Lookup soil	MG	MG	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF
Sample Ref	8	10	3	3	6	7	12	2	16	4	7	11	7	10	14	4	3	7	2	4	
Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES

Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	PFCPRC37	PFCPRC37	PFCPRC38 (SP)	PFCPRC39	PFCPRC39	PFCPRC39	PFCPRC39	PFCPRC40 (SP)	PFCPRC40 (SP)	PFCPRC40 (SP)	PFCPRC40 (SP)	PFCPRC40 (SP)	PFCPRC41	PFCPRC41	PFCPRC41	PFCPRC41 A (SP)	PFCPRC42 (SP)	PFCPRC42 (SP)	PFCPRC43 (SP)	PFCPRC43 (SP)	
1610-18-0	Prometon SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																					
16118-49-3	Carbetamide	SOLID	#N/A	mg/kg	mg/kg																					
1689-83-4	loxynil	SOLID	#N/A	mg/kg	mg/kg																					
1689-84-5	Bromoxynil	SOLID	#N/A	mg/kg	mg/kg																					
1702-17-6	Clopyralid	SOLID	#N/A	mg/kg	mg/kg																					
1746-81-2	Monolinuron	SOLID	#N/A	mg/kg	mg/kg																					
18691-97-9	Methabenzthiazuron	SOLID	#N/A	mg/kg	mg/kg																					
1897-45-6	Chlorothalonil	SOLID	#N/A	mg/kg	ug/kg																					
1912-24-9	Atrazine SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																					
1918-00-9	Dicamba	SOLID	#N/A	mg/kg	mg/kg																					
6607	Picloram	SOLID	#N/A	mg/kg	mg/kg																					
1967-16-4	Chlorbufam	SOLID	#N/A	mg/kg	mg/kg																					
1982-47-4	Chloroxuron	SOLID	#N/A	mg/kg	mg/kg																					
19937-59-8	Metoxuron	SOLID	#N/A	mg/kg	mg/kg																					
2132-70-9	p,p-Methoxychlor	SOLID	#N/A	mg/kg	ug/kg																					
2274-67-1	Chlorpyrifos-methyl	SOLID	#N/A	mg/kg	ug/kg																					
2303-17-5	Triallate	SOLID	#N/A	mg/kg	ug/kg																					
2310-17-0	Phosalone	SOLID	#N/A	mg/kg	ug/kg																					
23103-98-2	Pirimicarb	SOLID	#N/A	mg/kg	mg/kg																					
24017-47-8	Triazophos	SOLID	#N/A	mg/kg	ug/kg																					
25057-89-0	Bentazone	SOLID	#N/A	mg/kg	mg/kg																					
2642-71-9	Azinphos-ethyl	SOLID	#N/A	mg/kg	ug/kg																					
2921-88-2	Chlorpyrifos	SOLID	#N/A	mg/kg	ug/kg																					
29232-93-7	Pirimiphos Methyl	SOLID	#N/A	mg/kg	ug/kg																					
297-78-9	Telodrin	SOLID	#N/A	mg/kg	ug/kg																					
298-00-0	Methyl Parathion	SOLID	#N/A	mg/kg	ug/kg																					
298-01-1	Mevinphos	SOLID	#N/A	mg/kg	ug/kg																					
298-04-4	Disulfoton SUBCON OCP Alcontrol	SOLID	#N/A	mg/kg	ug/kg																					
29973-13-5	Ethiofencarb	SOLID	#N/A	mg/kg	mg/kg																					
30667-99-3	o,p-Methoxychlor	SOLID	#N/A	mg/kg	ug/kg																					
309-00-2	Aldrin SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																					
31218-83-4	Propetamphos	SOLID	#N/A	mg/kg	ug/kg																					
314-40-9	Bromacil	SOLID	#N/A	mg/kg	mg/kg																					
319-84-6	alpha-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																					
	beta-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																					
319-85-7		SOLID	#N/A	mg/kg	ug/kg																					
330-54-1	Diuron SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																					
330-55-2	Linuron	SOLID	#N/A	mg/kg	mg/kg																					
33213-65-9	Endosulphan II	SOLID	#N/A	mg/kg	ug/kg																					
333-41-5	Diazinon	SOLID	#N/A	mg/kg	ug/kg																					
34123-59-6	Isoproturon	SOLID	#N/A	mg/kg	mg/kg																					
34205-21-5	Dimefuron	SOLID	#N/A	mg/kg	mg/kg																					
3424-82-6	o,p-DDE	SOLID	#N/A	mg/kg	ug/kg																					
35367-38-5	Diflufenzuron	SOLID	#N/A	mg/kg	mg/kg																					
698836	Benazolin	SOLID	#N/A	mg/kg	mg/kg																					
38260-54-7	Etrimpfos	SOLID	#N/A	mg/kg	ug/kg																					
40483-25-2	Diclofop	SOLID	#N/A	mg/kg	mg/kg																					
40487-42-1	Pendimethalin	SOLID	#N/A	mg/kg	ug/kg																					
43121-43-3	Triadimefon	SOLID	#N/A	mg/kg	ug/kg																					
465-73-6	Isodrin	SOLID	#N/A	mg/kg	ug/kg																					
470-90-6	Chlorfenvinphos	SOLID	#N/A	mg/kg	ug/kg																					
50-29-3	p,p-DDT SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																					
50-31-7	2,3,6-TBA	SOLID	#N/A	mg/kg	mg/kg																					
5103-71-9	cis-Chlordane SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																					
5103-74-2	trans-Chlordane SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																					
51630-58-1	Fenvalerate SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																					
52315-07-8	Cypermethrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																					
52645-53-1	Permethrin SUBCON RPS MH Pyrethroids	SOLID	#N/A	mg/kg	mg/kg																					
52756-22-6	Fiamprop-isopropyl	SOLID	#N/A	mg/kg	mg/kg																					
52918-63-5	Deltamethrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																					
53-19-0	o,p-TDE (DDD)	SOLID	#N/A	mg/kg	ug/kg																					
55335-06-3	Triclopyr	SOLID	#N/A	mg/kg	mg/kg																					
55-38-9	Fenthion	SOLID	#N/A	mg/kg	ug/kg																					
563-12-2	Ethion	SOLID	#N/A	mg/kg	ug/kg																					
56-38-2	Parathion (Ethyl Parathion)	SOLID	#N/A	mg/kg	ug/kg																					
58667-63-3	Fiamprop	SOLID	#N/A	mg/kg	mg/kg																					

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Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	PFCPRC37	PFCPRC37	PFCPRC38 (SP)	PFCPRC39	PFCPRC39	PFCPRC39	PFCPRC39	PFCPRC40 (SP)	PFCPRC40 (SP)	PFCPRC40 (SP)	PFCPRC40 (SP)	PFCPRC40 (SP)	PFCPRC41	PFCPRC41	PFCPRC41	PFCPRC41 A (SP)	PFCPRC42 (SP)	PFCPRC42 (SP)	PFCPRC43 (SP)	PFCPRC43 (SP)
						6.00	8.00	0.70	0.60	3.00	4.00	9.00	0.60	14.50	2.00	4.70	9.70	3.50	6.80	9.50	15.50	0.90	4.00	0.50	1.80
Lookup soil	MG	MG	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	
Sample Ref	8	10	3	3	6	7	12	2	16	4	7	11	7	10	14	4	3	7	2	4					
Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	
58-89-9	gamma-Hexachlorocyclohexane (HCH / Lindane)	SOLID	#N/A	mg/kg	ug/kg																				
5915-41-3	Terbutylazine SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																				
60-51-5	Dimethoate	SOLID	#N/A	mg/kg	ug/kg																				
60-57-1	Dieldrin SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																				
61949-76-6	Permethrin I (cis) SUBCON Alcontrol OCP	SOLID	#N/A	mg/kg	ug/kg																				
61949-77-7	Permethrin II (trans) SUBCON Alcontrol OCP	SOLID	#N/A	mg/kg	ug/kg																				
62-73-7	Dichlorvos	SOLID	#N/A	mg/kg	ug/kg																				
639-58-7	Triphenyltin SUBCON I2	SOLID	#N/A	mg/kg	ug/kg																				
66063-05-6	Pencycuron	SOLID	#N/A	mg/kg	mg/kg																				
68085-85-8	Cyhalothrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																				
683-18-1	Dibutyltin Subcon I2	SOLID	#N/A	mg/kg	ug/kg																				
68359-37-5	Cyfluthrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																				
72-20-8	Endrin SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																				
72-54-8	p,p-TDE (DDD)	SOLID	#N/A	mg/kg	ug/kg																				
72-55-9	p,p-DDE	SOLID	#N/A	mg/kg	ug/kg																				
7287-19-6	Prometryn SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																				
76-44-8	Heptachlor SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																				
786-19-6	Carbophenothion	SOLID	#N/A	mg/kg	ug/kg																				
789-02-6	o,p-DDT SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																				
81406-37-3	Fluroxypyr	SOLID	#N/A	mg/kg	mg/kg																				
82-68-8	Quintozene; (PCNB)	SOLID	#N/A	mg/kg	ug/kg																				
834-12-8	Ametryn SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																				
86-50-0	Azinphos-methyl	SOLID	#N/A	mg/kg	ug/kg																				
886-50-0	Terbutryn SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																				
93-65-2	MCPP; (Mecoprop)	SOLID	#N/A	mg/kg	mg/kg																				
93-72-1	2,4,5-TP; (Fenoprop); (Silvex)	SOLID	#N/A	mg/kg	mg/kg																				
93-76-5	2,4,5-T	SOLID	#N/A	mg/kg	mg/kg																				
94-74-6	MCPA	SOLID	#N/A	mg/kg	mg/kg																				
94-75-7	2,4-D	SOLID	#N/A	mg/kg	mg/kg																				
94-81-5	MCPB	SOLID	#N/A	mg/kg	mg/kg																				
94-82-6	2,4-DB	SOLID	#N/A	mg/kg	mg/kg																				
959-98-8	Endosulphan I	SOLID	#N/A	mg/kg	ug/kg																				
P1362	TPH Aromatic >C35-C44	SOLID	657.18	mg/kg	mg/kg																				
P1415	TPH Aliphatic >C35-C44	SOLID	6927070.30	mg/kg	mg/kg																				
120-12-7	Anthracene	SOLID	0.16	mg/kg	ug/kg																				
129-00-0	Pyrene	SOLID	1.88	mg/kg	ug/kg																				
191-24-2	Benzo(g,h,i)perylene	SOLID	2.42	mg/kg	ug/kg																				
193-39-5	Indeno(1,2,3-cd)pyrene	SOLID	0.51	mg/kg	ug/kg																				
205-99-2	Benzo(b)fluoranthene	SOLID	0.61	mg/kg	ug/kg																				
206-44-0	Fluoranthene	SOLID	0.01	mg/kg	ug/kg																				
207-08-9	Benzo(k)fluoranthene	SOLID	0.86	mg/kg	ug/kg																				
208-96-8	Acenaphthylene	SOLID	1.01	mg/kg	ug/kg																				
218-01-9	Chrysene	SOLID	6.38	mg/kg	ug/kg																				
50-32-8	Benzo(a)pyrene	SOLID	0.07	mg/kg	ug/kg																				
53-70-3	Dibenzo(a,h)anthracene	SOLID	10.80	mg/kg	ug/kg																				
56-55-3	Benzo(a)anthracene	SOLID	4.50	mg/kg	ug/kg																				
83-32-9	Acenaphthene	SOLID	965.39	mg/kg	ug/kg																				
85-01-8	Phenanthrene	SOLID	3.35	mg/kg	ug/kg																				
86-73-7	Fluorene	SOLID	1.76	mg/kg	ug/kg																				
91-20-3	Napthalene	SOLID	0.08	mg/kg	ug/kg																				
302-04-5	Thiocyanate	SOLID	62.96	mg/kg	mg/kg																				
P1879	Xylenols	SOLID - INITIAL	2.39	mg/kg	mg/kg																				
P2098	Cresols	SOLID - INITIAL	0.54	mg/kg	mg/kg																				
12001-28-4	Asbestos: Crocidolite	SOLID - INITIAL	#N/A	mg/kg	No units																				
12001-29-5	Asbestos: Chrysotile	SOLID - INITIAL	#N/A	mg/kg	No units																				
12172-67-7	Asbestos: Actinolite	SOLID - INITIAL	#N/A	mg/kg	No units																				
12172-73-5	Asbestos: Amosite	SOLID - INITIAL	#N/A	mg/kg	No units																				
14567-73-8	Asbestos: Tremolite	SOLID - INITIAL	#N/A	mg/kg	No units																				
17068-78-9	Asbestos: Anthophyllite	SOLID - INITIAL	#N/A	mg/kg	No units																				
1002-53-5	Dibutyl Tin	SOLID - INITIAL	0.00	mg/kg	mg/kg																				
1461-22-9	Tributyltin	SOLID - INITIAL	0.00	mg/kg	mg/kg																				
1461-25-2	Tetrabutyl Tin	SOLID - INITIAL	0.00	mg/kg	mg/kg																				
1634-04-4	Methyl tert-butyl ether (MTBE)	SOLID - INITIAL	#N/A	mg/kg	ug/kg																				
1746-01-6	2,3,7,8-Tetrachlorodibenzo-p-dioxin	SOLID - INITIAL	#N/A	mg/kg	ng/g																				
181274-15-7	Propoxycarbazono-sodium	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-P-Dioxin	SOLID - INITIAL	94064.99	mg/kg	ng/g																				
298-02-2	Phorate	SOLID - INITIAL	#N/A	mg/kg	ug/kg																				

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					Hole Ref	PFCPRC37	PFCPRC37	PFCPRC38 (SP)	PFCPRC39	PFCPRC39	PFCPRC39	PFCPRC39	PFCPRC39	PFCPRC40 (SP)	PFCPRC40 (SP)	PFCPRC40 (SP)	PFCPRC40 (SP)	PFCPRC40 (SP)	PFCPRC41	PFCPRC41	PFCPRC41	PFCPRC41 A (SP)	PFCPRC42 (SP)	PFCPRC42 (SP)	PFCPRC43 (SP)	PFCPRC43 (SP)
					Sample Top	6.00	8.00	0.70	0.60	3.00	4.00	9.00	0.60	14.50	2.00	4.70	9.70	3.50	6.80	9.50	15.50	0.90	4.00	0.50	1.80	
					Lookup soil	MG	MG	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	
					Sample Ref	8	10	3	3	6	7	12	2	16	4	7	11	7	10	14	4	3	7	2	4	
Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES		
103-33-3	Azobenzene	SOLID - INITIAL	0.38	mg/kg	ug/kg																					
106-47-8	4-Chloroaniline	SOLID - INITIAL	0.01	mg/kg	ug/kg																					
700-57-23	4-Chlorophenylphenylether	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					
88-74-4	2-Nitroaniline	SOLID - INITIAL	0.01	mg/kg	ug/kg																					
99-09-2	3-Nitroaniline	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					
994-05-8	Tertiary Amyl Methyl Ether	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					
1336-36-6	PCB Total (WAC only)	SOLID	#N/A	mg/kg	mg/kg							<0.007														
P1330	BTEX (total) WAC	SOLID	#N/A	mg/kg	mg/kg							<0.01														

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Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	Hole Ref	PFCPRC43 (SP)	PFCPRC43 (SP)	PFCPRC44 (SP)	PFCPRC44 (SP)	PFCPRC44 (SP)	PFCPRC45 (SP)	PFCPRC45 (SP)	PFCPRC46 (SP)	PFCPRC55	PFCPRC55	PFTPH03	PFTPH06A	PFTPH13	PFWS01	PFWS01	PFWS02A	PFWS05 (SP)	PFWS07	PFWS08	PFWS09
						12	8	3	7	9	2	5	2	3	6	2	1	1	2	3	2	3	2	3	2	3
100-41-4	Ethylbenzene	SOLID - INITIAL	0.53	mg/kg	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
108-88-3	Toluene	SOLID - INITIAL	0.88	mg/kg	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
120-12-7	Anthracene	SOLID - INITIAL	0.16	mg/kg	mg/kg	<0.02	0.6	0.0	<0.02	<0.02	1.9	<0.02	<0.02	0.0	<0.02	<0.02	<0.02	0.3	<0.02	<0.02	<0.02	0.1	<0.02	<0.02	<0.02	<0.02
129-00-0	Pyrene	SOLID - INITIAL	1.88	mg/kg	mg/kg	<0.07	5.2	0.3	0.1	<0.07	5.9	0.1	<0.07	<0.07	<0.07	<0.07	0.3	1.7	<0.07	0.1	<0.07	0.6	<0.07	0.3	0.5	
1330-20-7	Xylene	SOLID - INITIAL	0.23	mg/kg	mg/kg																					
191-24-2	Benzo(g,h,i)perylene	SOLID - INITIAL	2.42	mg/kg	mg/kg	<0.05	1.0	0.1	<0.05	<0.05	0.8	<0.05	<0.05	<0.05	<0.05	0.1	0.3	0.7	<0.05	0.1	<0.05	0.2	<0.05	0.2	0.2	
193-39-5	Indeno(1,2,3-cd)pyrene	SOLID - INITIAL	0.51	mg/kg	mg/kg	<0.03	1.1	0.1	<0.03	<0.03	0.9	<0.03	<0.03	<0.03	<0.03	0.1	0.3	0.9	<0.03	0.0	<0.03	0.2	<0.03	0.2	0.2	
205-99-2	Benzo(b)fluoranthene	SOLID - INITIAL	0.61	mg/kg	mg/kg	<0.05	2.2	0.1	0.2	<0.05	1.8	<0.05	<0.05	<0.05	<0.05	0.1	0.4	1.3	<0.05	0.1	<0.05	0.4	<0.05	0.2	0.3	
206-44-0	Fluoranthene	SOLID - INITIAL	0.01	mg/kg	mg/kg	<0.08	4.4	0.3	<0.08	<0.08	7.3	<0.08	<0.08	<0.08	<0.08	0.4	1.9	<0.08	0.1	<0.08	0.7	<0.08	0.3	0.5		
207-08-9	Benzo(k)fluoranthene	SOLID - INITIAL	0.86	mg/kg	mg/kg	<0.07	0.9	<0.07	<0.07	<0.07	0.9	<0.07	<0.07	<0.07	<0.07	0.2	0.5	<0.07	<0.07	<0.07	0.2	<0.07	0.1	0.1		
208-96-8	Acenaphthylene	SOLID - INITIAL	1.01	mg/kg	mg/kg	<0.01	0.1	<0.01	<0.01	<0.01	0.2	<0.01	<0.01	<0.01	<0.01	0.0	0.0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
218-01-9	Chrysenes	SOLID - INITIAL	6.38	mg/kg	mg/kg	<0.06	1.9	0.2	0.1	<0.06	2.3	0.1	<0.06	<0.06	<0.06	0.3	1.0	<0.06	0.1	<0.06	0.3	<0.06	0.2	0.3		
50-32-8	Benzo(a)pyrene	SOLID - INITIAL	0.07	mg/kg	mg/kg	<0.04	1.7	0.1	<0.04	<0.04	1.6	<0.04	<0.04	<0.04	<0.04	0.1	0.4	1.2	<0.04	0.0	<0.04	0.3	<0.04	0.2	0.2	
53-70-3	Dibenzo(a,h)anthracene	SOLID - INITIAL	10.80	mg/kg	mg/kg	<0.04	0.2	<0.04	<0.04	<0.04	0.2	<0.04	<0.04	<0.04	<0.04	0.1	0.2	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.1	
56-55-3	Benzo(a)anthracene	SOLID - INITIAL	4.50	mg/kg	mg/kg	<0.04	2.0	0.1	0.0	<0.04	2.4	0.1	<0.04	<0.04	<0.04	0.1	0.2	0.9	<0.04	0.0	<0.04	0.3	<0.04	0.2	0.2	
57-12-5	Cyanide	SOLID - INITIAL	0.26	mg/kg	mg/kg																					
71-43-2	Benzene	SOLID - INITIAL	0.0043	mg/kg	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
7439-92-1	Lead	SOLID - INITIAL	10.00	mg/kg	mg/kg	6.0	113.0	45.0	247.0	29.0	34.0	15.0	11.0	18.0	24.0	66.0	36.0	27.0	27.0	9.0	8.0	17.0	36.0	29.0		
7439-97-6	Mercury	SOLID - INITIAL	0.50	mg/kg	mg/kg	0.3	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	0.8	0.6	0.6	1.4	<0.17	<0.17	<0.17	<0.17	0.6	0.6	0.7	<0.17	
7440-02-0	Nickel	SOLID - INITIAL	10.01	mg/kg	mg/kg	12.0	38.0	29.0	28.0	38.0	12.0	22.0	19.0	7.0	18.0	10.0	16.0	28.0	14.0	10.0	5.0	15.0	7.0	26.0	18.0	
7440-36-0	Antimony	SOLID - INITIAL	1.26	mg/kg	mg/kg																					
7440-38-2	Arsenic	SOLID - INITIAL	5.00	mg/kg	mg/kg	<1	15.0	6.0	13.0	6.0	3.0	9.0	10.0	1.0	3.0	<1	3.0	9.0	6.0	5.0	5.0	<1	2.0	7.0	4.0	
7440-41-7	Beryllium	SOLID - INITIAL	5.04	mg/kg	mg/kg	<1	1.0	1.0	2.0	2.0	1.0	1.0	1.0	<1	1.0	<1	1.0	<1	2.0	1.0	1.0	<1	1.0	<1	1.0	
7440-42-8	Boron	SOLID - INITIAL	8.69	mg/kg	mg/kg	<1.0	3.2	1.1	3.4	1.5	<1.0	<1.0	1.3	1.6	7.4	1.6	1.7	3.2	<1.0	<1.0	<1.0	<1.0	3.0	<1.0	2.0	1.7
7440-43-9	Cadmium	SOLID - INITIAL	0.50	mg/kg	mg/kg	<0.5	2.5	1.9	2.8	2.3	0.7	1.7	2.3	<0.5	1.1	<0.5	1.8	1.7	1.3	1.0	1.2	0.9	0.7	1.8	1.3	
7440-47-3	Chromium	SOLID - INITIAL	315.49	mg/kg	mg/kg	7.0	131.0	36.0	33.0	50.0	15.0	38.0	44.0	7.0	17.0	11.0	28.0	33.0	28.0	16.0	13.0	12.0	8.0	29.0	21.0	
7440-50-8	Copper	SOLID - INITIAL	1002.92	mg/kg	mg/kg	7.0	224.0	24.0	60.0	27.0	7.0	16.0	10.0	8.0	26.0	20.0	49.0	178.0	31.0	27.0	3.0	6.0	11.0	33.0	18.0	
7440-62-2	Vanadium	SOLID - INITIAL	1.01	mg/kg	mg/kg																					
7440-66-6	Zinc	SOLID - INITIAL	2507.30	mg/kg	mg/kg	25.0	114.0	89.0	1010.0	126.0	33.0	55.0	39.0	28.0	61.0	49.0	209.0	75.0	41.0	34.0	20.0	29.0	55.0	98.0	74.0	
7782-49-2	Selenium	SOLID - INITIAL	0.50	mg/kg	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.0	<1	<1	<1	<1	<1	
83-32-9	Acenaphthene	SOLID - INITIAL	965.39	mg/kg	mg/kg	<0.01	0.2	<0.01	<0.01	<0.01	0.6	0.0	<0.01	0.1	<0.01	<0.01	<0.01	<0.01	0.1	<0.01	<0.01	0.0	<0.01	0.0	<0.01	
85-01-8	Phenanthrene	SOLID - INITIAL	3.35	mg/kg	mg/kg	<0.03	2.0	0.1	0.0	<0.03	6.1	0.0	<0.03	0.1	<0.03	<0.03	0.1	0.9	<0.03	0.1	<0.03	0.2	<0.03	0.1	0.1	
86-73-7	Fluorene	SOLID - INITIAL	1.76	mg/kg	mg/kg	<0.01	0.3	<0.01	<0.01	<0.01	0.9	<0.01	<0.01	0.0	<0.01	<0.01	<0.01	<0.01	0.1	<0.01	0.0	<0.01	0.0	<0.01	<0.01	
91-20-3	Napthalene	SOLID - INITIAL	0.08	mg/kg	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03	0.5	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	
P1186	Phenol	SOLID - INITIAL	0.04	mg/kg	mg/kg																					
P1310	pH, Total	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
P1334	pH	SOLID - INITIAL	#N/A	mg/kg	pH Units																					
P1355	TPH Aromatic >C7-C8	SOLID - INITIAL	10.42	mg/kg	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
P1356	TPH Aromatic >C8-C10	SOLID - INITIAL	219.16	mg/kg	mg/kg																					
P1357	TPH Aromatic >C10-C12	SOLID - INITIAL	16.54	mg/kg	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
P1358	TPH Aromatic >C12-C16	SOLID - INITIAL	32.96	mg/kg	mg/kg	<0.1	0.6	<0.1	<0.1	<0.1	0.9	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
P1359	TPH Aromatic >C16-C21	SOLID - INITIAL	82.76	mg/kg	mg/kg	<0.1	6.1	<0.1	3.1	<0.1	4.6	<0.1	<0.1	<0.1	<0.1	<0.1	2.0	<0.1	3.2	<0.1	12.8	<0.1	<0.1	<0.1		
P1360	TPH Aromatic >C21-C35	SOLID - INITIAL	657.18	mg/kg	mg/kg	<0.1	23.6	<0.1	23.3	12.1	8.0	<0.1	<0.1	<0.1	<0.1	<0.1	8.0	<0.1	84.1	<0.1	68.6	<0.1	<0.1	<0.1		
P1407	TPH Aliphatic >C5-6	SOLID - INITIAL	654.68	mg/kg	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.01	<0.01	
P1408	TPH Aliphatic >C6-8	SOLID - INITIAL	2946.18	mg/kg	mg/kg	<0.01	0.0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
P1409	TPH Aliphatic >C8-10	SOLID - INITIAL	558.25	mg/kg																						

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Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	Hole Ref	PFCPRC43 (SP)	PFCPRC43 (SP)	PFCPRC44 (SP)	PFCPRC44 (SP)	PFCPRC44 (SP)	PFCPRC45 (SP)	PFCPRC45 (SP)	PFCPRC45 (SP)	PFCPRC46 (SP)	PFCPRC55	PFCPRC55	PFTPH03	PFTPH06A	PFTPH13	PFWS01	PFWS01	PFWS02A	PFWS05 (SP)	PFWS07	PFWS08	PFWS09
						Sample Top	Lookup soil	Sample Ref	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
98-06-6	Tert-Butylbenzene	SOLID - INITIAL	0.75	mg/kg	mg/kg																						
98-82-8	Isopropylbenzene	SOLID - INITIAL	0.27	mg/kg	mg/kg																						
99-09-2	3-Nitroaniline	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
99-65-0	M-Dinitrobenzene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
99-87-6	4-Isopropyltoluene	SOLID - INITIAL	54.06	mg/kg	mg/kg																						
P1374	xylene	SOLID - INITIAL	0.23	mg/kg	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
18540-29-9	chromium hexavalent	SOLID - INITIAL	0.02	mg/kg	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
P1095	Cyanide Free	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
P1239	Complex Cyanide	SOLID - INITIAL	0.26	mg/kg	mg/kg																						
31508-00-6	PCB-118 2,3,4,4,5 - Pentachlorobiphenyl	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
32598-13-3	PCB 77	SOLID - INITIAL	6185.41	mg/kg	mg/kg																						
32598-14-4	PCB 105	SOLID - INITIAL	8940.63	mg/kg	mg/kg																						
32774-16-6	PCB 169	SOLID - INITIAL	37270.75	mg/kg	mg/kg																						
38380-08-4	PCB-156 2,3,3,4,4,5 - Hexachlorobiphenyl	SOLID - INITIAL	3172.26	mg/kg	mg/kg																						
39635-31-9	PCB 189	SOLID - INITIAL	270002.64	mg/kg	mg/kg																						
52663-72-6	PCB 167	SOLID - INITIAL	45853.03	mg/kg	mg/kg																						
57465-28-8	PCB 126	SOLID - INITIAL	8940.63	mg/kg	mg/kg																						
65510-44-3	PCB 123	SOLID - INITIAL	8940.63	mg/kg	mg/kg																						
69782-90-7	PCB 157	SOLID - INITIAL	45853.03	mg/kg	mg/kg																						
70362-50-4	PCB 81	SOLID - INITIAL	8940.63	mg/kg	mg/kg																						
74472-37-0	PCB 114	SOLID - INITIAL	8940.63	mg/kg	mg/kg																						
100-02-7	4-Nitrophenol	SOLID	0.04	mg/kg	ug/kg			<100	<100	<100											<100	<100					
100-41-4	Ethylbenzene	SOLID	0.53	mg/kg	ug/kg			<1	<1	<1											<1	<1					
100-42-5	Styrene	SOLID	1.04	mg/kg	ug/kg			<1	<1	<1											<1	<1					
10061-01-5	cis 1,3-Dichloropropene	SOLID	#N/A	mg/kg	ug/kg			<1	<1	<1											<1	<1					
10061-02-6	trans 1,3-Dichloropropene	SOLID	#N/A	mg/kg	ug/kg			<1	<1	<1											<1	<1					
103-65-1	Propylbenzene	SOLID	0.28	mg/kg	ug/kg			<1	<1	<1											<1	<1					
104-51-8	n-Butylbenzene	SOLID	1.39	mg/kg	ug/kg			<1	<1	<1											<1	<1					
105-67-9	2,4-Dimethylphenol	SOLID	1.18	mg/kg	ug/kg			<100	<100	<100											<100	<100					
106-43-4	4-Chlorotoluene	SOLID	#N/A	mg/kg	ug/kg			<1	<1	<1											<1	<1					
106-44-5	4-Methylphenol	SOLID	0.53	mg/kg	ug/kg			<100	<100	<100											<100	<100					
106-46-7	1,4-Dichlorobenzene	SOLID	48.01	mg/kg	ug/kg			<1	<1	<1											<1	<1					
106-93-4	1,2-Dibromoethane	SOLID	#N/A	mg/kg	ug/kg			<1	<1	<1											<1	<1					
107-06-2	1,2-Dichloroethane	SOLID	#N/A	mg/kg	ug/kg			<2	<2	<2											<2	<2					
108-67-8	1,3,5-Trimethylbenzene	SOLID	0.15	mg/kg	ug/kg			<1	<1	<1											<1	<1					
108-86-1	Bromobenzene	SOLID	#N/A	mg/kg	ug/kg			<1	<1	<1											<1	<1					
108-88-3	Toluene	SOLID	0.88	mg/kg	ug/kg			<1	<1	<1											<1	<1					
108-90-7	Chlorobenzene	SOLID	4.46	mg/kg	ug/kg			<1	<1	<1											<1	<1					
108-95-2	Phenol	SOLID	0.04	mg/kg	ug/kg			<100	<100	<100											<100	<100					
111-44-4	Bis(2-chloroethyl)ether	SOLID	#N/A	mg/kg	ug/kg			<100	<100	<100											<100	<100					
111-91-1	Bis(2-chloroethoxy)methane	SOLID	0.01	mg/kg	ug/kg			<100	<100	<100											<100	<100					
117-81-7	Bis(2-ethylhexyl)phthalate	SOLID	18472.17	mg/kg	ug/kg			<100	<100	<100											<100	<100					
117-84-0	n-Dioctylphthalate	SOLID	146035.35	mg/kg	ug/kg			<100	482.0	<100											<100	<100					
118-74-1	Hexachlorobenzene	SOLID	0.23	mg/kg	ug/kg			<100	<100	<100											<100	<100					
120-82-1	1,2,4-Trichlorobenzene	SOLID	1.81	mg/kg	ug/kg			<3	<3	<3											<3	<3					
120-83-2	2,4-Dichlorophenol	SOLID	0.28	mg/kg	ug/kg			<100	<100	<100											<100	<100					
121-14-2	2,4-Dinitrotoluene	SOLID	0.00	mg/kg	ug/kg			<100	<100	<100											<100	<100					
124-48-1	Dibromochloromethane	SOLID	#N/A	mg/kg	ug/kg			<3	<3	<3											<3	<3					
127-18-4	Tetrachloroethene	SOLID	1.46	mg/kg	ug/kg			<1	<1	<1											<1	<1					
131-11-3	Dimethyl phthalate	SOLID	#N/A	mg/kg	ug/kg			<100	<100	<100											<100	<100					
132-64-9	Dibenzofuran	SOLID	0.49	mg/kg	ug/kg			<100	<100	<100											<100	<100					
135-98-8	sec-Butylbenzene	SOLID	1.39	mg/kg	ug/kg			<1	<1	<1											<1	<1					
142-28-9	1,3-Dichloropropane	SOLID	#N/A	mg/kg	ug/kg			<1	<1	<1											<1	<1					
156-59-2	cis 1,2-Dichloroethene	SOLID	0.31	mg/kg	ug/kg			<1	<1	<1											<1	<1					
156-60-5	trans 1,2-Dichloroethene	SOLID	#N/A	mg/kg	ug/kg			<1	<1	<1											<1	<1					
198-55-0	Perylene	SOLID	206.28	mg/kg	ug/kg			1750.0	144.0	<100											<100	<100					
39638-32-9	Bis(2-chloroisopropyl)ether	SOLID	#N/A	mg/kg	ug/kg			<100	<100	<100											<100	<100					
541-73-1	1,3-Dichlorobenzene	SOLID	145.60	mg/kg	ug/kg			<1	<1	<1											<1	<1					
56-23-5	Carbon Tetrachloride	SOLID	#N/A	mg/kg	ug/kg			<1	<1	<1											<1	<1					
563-5																											

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Hole Ref	PFCPRC43 (SP)	PFCPRC43 (SP)	PFCPRC44 (SP)	PFCPRC44 (SP)	PFCPRC44 (SP)	PFCPRC45 (SP)	PFCPRC45 (SP)	PFCPRC46 (SP)	PFCPRC55	PFCPRC55	PFTPH03	PFTPH06A	PFTPH13	PFWS01	PFWS01	PFWS02A	PFWS05 (SP)	PFWS07	PFWS08	PFWS09
Sample Top	10.20	5.60	1.90	4.45	5.70	0.80	3.80	1.10	2.00	5.75	0.60	0.10	0.10	0.60	1.20	0.30	0.80	0.60	0.90	0.50
Lookup soil	CHK	MG-LF	MG	MG	MG	MG-LF	MG-LF	MG	MG	HEAD							CWF			
Sample Ref	12	8	3	7	9	2	5	2	3	6	2	1	1	2	3	2	3	2	3	2
Contaminant Code	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES

Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
1610-18-0	Prometon SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg															
16118-49-3	Carbetamide	SOLID	#N/A	mg/kg	mg/kg															
1689-83-4	loxynil	SOLID	#N/A	mg/kg	mg/kg															
1689-84-5	Bromoxynil	SOLID	#N/A	mg/kg	mg/kg															
1702-17-6	Clopyralid	SOLID	#N/A	mg/kg	mg/kg															
1746-81-2	Monolinuron	SOLID	#N/A	mg/kg	mg/kg															
18691-97-9	Methabenzthiazuron	SOLID	#N/A	mg/kg	mg/kg															
1897-45-6	Chlorothalonil	SOLID	#N/A	mg/kg	ug/kg															
1912-24-9	Atrazine SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg															
1918-00-9	Dicamba	SOLID	#N/A	mg/kg	mg/kg															
6607	Picloram	SOLID	#N/A	mg/kg	mg/kg															
1967-16-4	Chlorbufam	SOLID	#N/A	mg/kg	mg/kg															
1982-47-4	Chloroxuron	SOLID	#N/A	mg/kg	mg/kg															
19937-59-8	Metoxuron	SOLID	#N/A	mg/kg	mg/kg															
2132-70-9	p,p-Methoxychlor	SOLID	#N/A	mg/kg	ug/kg															
2274-67-1	Chlorpyrifos-methyl	SOLID	#N/A	mg/kg	ug/kg															
2303-17-5	Triallate	SOLID	#N/A	mg/kg	ug/kg															
2310-17-0	Phosalone	SOLID	#N/A	mg/kg	ug/kg															
23103-98-2	Pirimicarb	SOLID	#N/A	mg/kg	mg/kg															
24017-47-8	Triazophos	SOLID	#N/A	mg/kg	ug/kg															
25057-89-0	Bentazone	SOLID	#N/A	mg/kg	mg/kg															
2642-71-9	Azinphos-ethyl	SOLID	#N/A	mg/kg	ug/kg															
2921-88-2	Chlorpyrifos	SOLID	#N/A	mg/kg	ug/kg															
29232-93-7	Pirimiphos Methyl	SOLID	#N/A	mg/kg	ug/kg															
297-78-9	Telodrin	SOLID	#N/A	mg/kg	ug/kg															
298-00-0	Methyl Parathion	SOLID	#N/A	mg/kg	ug/kg															
298-01-1	Mevinphos	SOLID	#N/A	mg/kg	ug/kg															
298-04-4	Disulfoton SUBCON OCP Alcontrol	SOLID	#N/A	mg/kg	ug/kg															
29973-13-5	Ethiofencarb	SOLID	#N/A	mg/kg	mg/kg															
30667-99-3	o,p-Methoxychlor	SOLID	#N/A	mg/kg	ug/kg															
309-00-2	Aldrin SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg															
31218-83-4	Propetamphos	SOLID	#N/A	mg/kg	ug/kg															
314-40-9	Bromacil	SOLID	#N/A	mg/kg	mg/kg															
319-84-6	alpha-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg															
	beta-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg															
319-85-7		SOLID	#N/A	mg/kg	ug/kg															
330-54-1	Diuron SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg															
330-55-2	Linuron	SOLID	#N/A	mg/kg	mg/kg															
33213-65-9	Endosulphan II	SOLID	#N/A	mg/kg	ug/kg															
333-41-5	Diazinon	SOLID	#N/A	mg/kg	ug/kg															
34123-59-6	Isoproturon	SOLID	#N/A	mg/kg	mg/kg															
34205-21-5	Dimefuron	SOLID	#N/A	mg/kg	mg/kg															
3424-82-6	o,p-DDE	SOLID	#N/A	mg/kg	ug/kg															
35367-38-5	Diflufenzuron	SOLID	#N/A	mg/kg	mg/kg															
698836	Benazolin	SOLID	#N/A	mg/kg	mg/kg															
38260-54-7	Etrimpfos	SOLID	#N/A	mg/kg	ug/kg															
40483-25-2	Diclofop	SOLID	#N/A	mg/kg	mg/kg															
40487-42-1	Pendimethalin	SOLID	#N/A	mg/kg	ug/kg															
43121-43-3	Triadimefon	SOLID	#N/A	mg/kg	ug/kg															
465-73-6	Isodrin	SOLID	#N/A	mg/kg	ug/kg															
470-90-6	Chlorfenvinphos	SOLID	#N/A	mg/kg	ug/kg															
50-29-3	p,p-DDT SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg															
50-31-7	2,3,6-TBA	SOLID	#N/A	mg/kg	mg/kg															
5103-71-9	cis-Chlordane SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg															
5103-74-2	trans-Chlordane SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg															
51630-58-1	Fenvalerate SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg															
52315-07-8	Cypermethrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg															
52645-53-1	Permethrin SUBCON RPS MH Pyrethroids	SOLID	#N/A	mg/kg	mg/kg															
52756-22-6	Fiamprop-isopropyl	SOLID	#N/A	mg/kg	mg/kg															
52918-63-5	Deltamethrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg															
53-19-0	o,p-TDE (DDD)	SOLID	#N/A	mg/kg	ug/kg															
55335-06-3	Triclopyr	SOLID	#N/A	mg/kg	mg/kg															
55-38-9	Fenthion	SOLID	#N/A	mg/kg	ug/kg															
563-12-2	Ethion	SOLID	#N/A	mg/kg	ug/kg															
56-38-2	Parathion (Ethyl Parathion)	SOLID	#N/A	mg/kg	ug/kg															
58667-63-3	Fiamprop	SOLID	#N/A	mg/kg	mg/kg															

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		Hole Ref	PFCPRC43 (SP)	PFCPRC43 (SP)	PFCPRC44 (SP)	PFCPRC44 (SP)	PFCPRC44 (SP)	PFCPRC45 (SP)	PFCPRC45 (SP)	PFCPRC46 (SP)	PFCPRC55	PFCPRC55	PFTPH03	PFTPH06A	PFTPH13	PFWS01	PFWS01	PFWS02A	PFWS05 (SP)	PFWS07	PFWS08	PFWS09
		Sample Top	10.20	5.60	1.90	4.45	5.70	0.80	3.80	1.10	2.00	5.75	0.60	0.10	0.10	0.60	1.20	0.30	0.80	0.60	0.90	0.50
		Lookup soil	CHK	MG-LF	MG	MG	MG	MG-LF	MG-LF	MG	MG	HEAD							CWF			
		Sample Ref	12	8	3	7	9	2	5	2	3	6	2	1	1	2	3	2	3	2	3	2
Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
58-89-9	gamma-Hexachlorocyclohexane (HCH / Lindane) SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																	
5915-41-3	Terbutylazine SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																	
60-51-5	Dimethoate	SOLID	#N/A	mg/kg	ug/kg																	
60-57-1	Dieldrin SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																	
61949-76-6	Permethrin I (cis) SUBCON Alcontrol OCP	SOLID	#N/A	mg/kg	ug/kg																	
61949-77-7	Permethrin II (trans) SUBCON Alcontrol OCP	SOLID	#N/A	mg/kg	ug/kg																	
62-73-7	Dichlorvos	SOLID	#N/A	mg/kg	ug/kg																	
639-58-7	Triphenyltin SUBCON I2	SOLID	#N/A	mg/kg	ug/kg																	
66063-05-6	Pencycuron	SOLID	#N/A	mg/kg	mg/kg																	
68085-85-8	Cyhalothrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																	
683-18-1	Dibutyltin Subcon I2	SOLID	#N/A	mg/kg	ug/kg																	
68359-37-5	Cyfluthrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																	
72-20-8	Endrin SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																	
72-54-8	p,p-TDE (DDD)	SOLID	#N/A	mg/kg	ug/kg																	
72-55-9	p,p-DDE	SOLID	#N/A	mg/kg	ug/kg																	
7287-19-6	Prometryn SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																	
76-44-8	Heptachlor SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																	
786-19-6	Carbophenothion	SOLID	#N/A	mg/kg	ug/kg																	
789-02-6	o,p-DDT SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																	
81406-37-3	Fluroxypyr	SOLID	#N/A	mg/kg	mg/kg																	
82-68-8	Quintozene; (PCNB)	SOLID	#N/A	mg/kg	ug/kg																	
834-12-8	Ametryn SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																	
86-50-0	Azinphos-methyl	SOLID	#N/A	mg/kg	ug/kg																	
886-50-0	Terbutryn SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																	
93-65-2	MCPP; (Mecoprop)	SOLID	#N/A	mg/kg	mg/kg																	
93-72-1	2,4,5-TP; (Fenoprop); (Silvex)	SOLID	#N/A	mg/kg	mg/kg																	
93-76-5	2,4,5-T	SOLID	#N/A	mg/kg	mg/kg																	
94-74-6	MCPA	SOLID	#N/A	mg/kg	mg/kg																	
94-75-7	2,4-D	SOLID	#N/A	mg/kg	mg/kg																	
94-81-5	MCPB	SOLID	#N/A	mg/kg	mg/kg																	
94-82-6	2,4-DB	SOLID	#N/A	mg/kg	mg/kg																	
959-98-8	Endosulphan I	SOLID	#N/A	mg/kg	ug/kg																	
P1362	TPH Aromatic >C35-C44	SOLID	657.18	mg/kg	mg/kg																	
P1415	TPH Aliphatic >C35-C44	SOLID	6927070.30	mg/kg	mg/kg																	
120-12-7	Anthracene	SOLID	0.16	mg/kg	ug/kg																	
129-00-0	Pyrene	SOLID	1.88	mg/kg	ug/kg																	
191-24-2	Benzo(g,h,i)perylene	SOLID	2.42	mg/kg	ug/kg																	
193-39-5	Indeno(1,2,3-cd)pyrene	SOLID	0.51	mg/kg	ug/kg																	
205-99-2	Benzo(b)fluoranthene	SOLID	0.61	mg/kg	ug/kg																	
206-44-0	Fluoranthene	SOLID	0.01	mg/kg	ug/kg																	
207-08-9	Benzo(k)fluoranthene	SOLID	0.86	mg/kg	ug/kg																	
208-96-8	Acenaphthylene	SOLID	1.01	mg/kg	ug/kg																	
218-01-9	Chrysene	SOLID	6.38	mg/kg	ug/kg																	
50-32-8	Benzo(a)pyrene	SOLID	0.07	mg/kg	ug/kg																	
53-70-3	Dibenzo(a,h)anthracene	SOLID	10.80	mg/kg	ug/kg																	
56-55-3	Benzo(a)anthracene	SOLID	4.50	mg/kg	ug/kg																	
83-32-9	Acenaphthene	SOLID	965.39	mg/kg	ug/kg																	
85-01-8	Phenanthrene	SOLID	3.35	mg/kg	ug/kg																	
86-73-7	Fluorene	SOLID	1.76	mg/kg	ug/kg																	
91-20-3	Napthalene	SOLID	0.08	mg/kg	ug/kg																	
302-04-5	Thiocyanate	SOLID	62.96	mg/kg	mg/kg																	
P1879	Xylenols	SOLID - INITIAL	2.39	mg/kg	mg/kg																	
P2098	Cresols	SOLID - INITIAL	0.54	mg/kg	mg/kg																	
12001-28-4	Asbestos: Crocidolite	SOLID - INITIAL	#N/A	mg/kg	No units																	
12001-29-5	Asbestos: Chrysotile	SOLID - INITIAL	#N/A	mg/kg	No units																	
12172-67-7	Asbestos: Actinolite	SOLID - INITIAL	#N/A	mg/kg	No units																	
12172-73-5	Asbestos: Amosite	SOLID - INITIAL	#N/A	mg/kg	No units																	
14567-73-8	Asbestos: Tremolite	SOLID - INITIAL	#N/A	mg/kg	No units																	
17068-78-9	Asbestos: Anthophyllite	SOLID - INITIAL	#N/A	mg/kg	No units																	
1002-53-5	Dibutyl Tin	SOLID - INITIAL	0.00	mg/kg	mg/kg																	
1461-22-9	Tributyltin	SOLID - INITIAL	0.00	mg/kg	mg/kg																	
1461-25-2	Tetraethyl Tin	SOLID - INITIAL	0.00	mg/kg	mg/kg																	
1634-04-4	Methyl tert-butyl ether (MTBE)	SOLID - INITIAL	#N/A	mg/kg	ug/kg																	
1746-01-6	2,3,7,8-Tetrachlorodibenzo-p-dioxin	SOLID - INITIAL	#N/A	mg/kg	ng/g																	
181274-15-7	Propoxycarbazono-sodium	SOLID - INITIAL	#N/A	mg/kg	mg/kg																	
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-P-Dioxin	SOLID - INITIAL	94064.99	mg/kg	ng/g																	
298-02-2	Phorate	SOLID - INITIAL	#N/A	mg/kg	ug/kg																	

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Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	Hole Ref	PFCPRC43 (SP)	PFCPRC43 (SP)	PFCPRC44 (SP)	PFCPRC44 (SP)	PFCPRC44 (SP)	PFCPRC45 (SP)	PFCPRC45 (SP)	PFCPRC45 (SP)	PFCPRC46 (SP)	PFCPRC55	PFCPRC55	PFTPH03	PFTPH06A	PFTPH13	PFWS01	PFWS01	PFWS02A	PFWS05 (SP)	PFWS07	PFWS08	PFWS09
						Sample Top	Lookup soil	Sample Ref	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
31508-00-6	PCB-118 2,3',4,4',5 - Pentachlorobiphenyl	SOLID - INITIAL	694.02	mg/kg	ng/g																						
32598-13-3	PCB 77	SOLID - INITIAL	6185.41	mg/kg	ng/g																						
32598-14-4	PCB 105	SOLID - INITIAL	8940.63	mg/kg	ng/g																						
3268-87-9	Octachlorodibenzo-p-dioxin	SOLID - INITIAL	91923.81	mg/kg	ng/g																						
32774-16-6	PCB 169	SOLID - INITIAL	37270.75	mg/kg	ng/g																						
3380-34-5	Triclosan	SOLID - INITIAL	0.33	mg/kg	mg/kg																						
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-P-Dioxin	SOLID - INITIAL	91923.81	mg/kg	ng/g																						
38380-08-4	PCB-156 2,3,3,4,4,5 - Hexachlorobiphenyl	SOLID - INITIAL	3172.26	mg/kg	ng/g																						
39001-02-0	Octachlorodibenzofuran	SOLID - INITIAL	46180.43	mg/kg	ng/g																						
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-P-Dioxin	SOLID - INITIAL	36595.53	mg/kg	ng/g																						
39635-31-9	PCB 189	SOLID - INITIAL	27002.64	mg/kg	ng/g																						
40321-76-4	1,2,3,7,8-Pentachlorodibenzo-P-Dioxin	SOLID - INITIAL	#N/A	mg/kg	ng/g																						
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	SOLID - INITIAL	393.06	mg/kg	ng/g																						
52645-53-1	Permethrin	SOLID - INITIAL	#N/A	mg/kg	ug/kg																						
52663-72-6	PCB 167	SOLID - INITIAL	45853.03	mg/kg	ng/g																						
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	SOLID - INITIAL	9648.46	mg/kg	ng/g																						
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	SOLID - INITIAL	964.85	mg/kg	ng/g																						
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	SOLID - INITIAL	715.25	mg/kg	ng/g																						
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	SOLID - INITIAL	715.25	mg/kg	ng/g																						
57465-28-8	PCB 126	SOLID - INITIAL	8940.63	mg/kg	ng/g																						
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-P-Dioxin	SOLID - INITIAL	91923.81	mg/kg	ng/g																						
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofura	SOLID - INITIAL	715.25	mg/kg	ng/g																						
62476-59-9	Acifluorfen	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
65510-44-3	PCB 123	SOLID - INITIAL	8940.63	mg/kg	ng/g																						
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	SOLID - INITIAL	715.25	mg/kg	ng/g																						
69782-90-7	PCB 157	SOLID - INITIAL	45853.03	mg/kg	ng/g																						
70362-50-4	PCB 81	SOLID - INITIAL	8940.63	mg/kg	ng/g																						
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	SOLID - INITIAL	715.25	mg/kg	ng/g																						
7085-19-0	mecoprop	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
72-43-5	Methoxychlor	SOLID - INITIAL	#N/A	mg/kg	ug/kg																						
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	SOLID - INITIAL	#N/A	mg/kg	ng/g																						
74472-37-0	PCB 114	SOLID - INITIAL	8940.63	mg/kg	ng/g																						
88-85-7	Dinoseb	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
892-20-6	Triphenyltin	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
P1330	BTEX	SOLID - INITIAL	0.00	mg/kg	ug/kg																						
P1354	TPH Aromatic >C6-C7	SOLID - INITIAL	0.05	mg/kg	ug/kg																						
P1355	TPH Aromatics > C7-C8	SOLID - INITIAL	#N/A	mg/kg	ug/kg																						
P1356	Aromatics >C8-10	SOLID - INITIAL	#N/A	mg/kg	ug/kg																						
P1357	Aromatics >C10-12	SOLID - INITIAL	#N/A	mg/kg	ug/kg																						
P1358	Aromatics >C12-16	SOLID - INITIAL	#N/A	mg/kg	ug/kg																						
P1359	Aromatics >C16-21	SOLID - INITIAL	#N/A	mg/kg	ug/kg																						
P1360	Aromatics >C21-35	SOLID - INITIAL	#N/A	mg/kg	ug/kg																						
P1362	Aromatics >C35-44	SOLID - INITIAL	#N/A	mg/kg	ug/kg																						
P1407	Aliphatics >C5-6	SOLID - INITIAL	#N/A	mg/kg	ug/kg																						
P1408	Aliphatics >C6-8	SOLID - INITIAL	#N/A	mg/kg	ug/kg																						
P1409	Aliphatics >C8-10	SOLID - INITIAL	#N/A	mg/kg	ug/kg																						
P1410	Aliphatics >C10-12	SOLID - INITIAL	#N/A	mg/kg	ug/kg																						
P1411	Aliphatics >C12-16	SOLID - INITIAL	#N/A	mg/kg	ug/kg																						
P1412	Aliphatics >C16-21	SOLID - INITIAL	#N/A	mg/kg	ug/kg																						
P1413	Aliphatics >C21-35	SOLID - INITIAL	#N/A	mg/kg	ug/kg																						
P1415	Aliphatics >C35-44	SOLID - INITIAL	#N/A	mg/kg	ug/kg																						
15541-45-4	Bromate	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
16065-83-1	Trivalent Chromium	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
16887-00-6	Chloride	SOLID - INITIAL	268.18	mg/kg	mg/kg																						
16984-48-8	Fluoride	SOLID - INITIAL	0.41	mg/kg	mg/kg																						
18496-25-8	Sulphide	SOLID - INITIAL	#VALUE!	mg/kg	mg/kg																						
24959-67-9	Bromide	SOLID - INITIAL	#VALUE!	mg/kg	mg/kg																						
7439-89-6	Iron	SOLID - INITIAL	44.05	mg/kg	mg/kg																						
7439-95-4	Magnesium	SOLID - INITIAL	0.00	mg/kg	mg/kg																						
7439-98-7	Molybdenum	SOLID - INITIAL	0.10	mg/kg	mg/kg																						
2023695	Potassium	SOLID - INITIAL	0.00	mg/kg	mg/kg																						
7440-23-5	Sodium	SOLID - INITIAL	263.64	mg/kg	mg/kg																						
7440-70-2	Calcium	SOLID - INITIAL	0.00	mg/kg	mg/kg																						
P1238	Ammoniacal Nitrogen as N	SOLID - INITIAL	0.11	mg/kg	mg/kg																						
P1286	Manganese	SOLID																									

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Hole Ref	PFCPRC43 (SP)	PFCPRC43 (SP)	PFCPRC44 (SP)	PFCPRC44 (SP)	PFCPRC44 (SP)	PFCPRC45 (SP)	PFCPRC45 (SP)	PFCPRC46 (SP)	PFCPRC55	PFCPRC55	PFTPH03	PFTPH06A	PFTPH13	PFWS01	PFWS01	PFWS02A	PFWS05 (SP)	PFWS07	PFWS08	PFWS09
Sample Top	10.20	5.60	1.90	4.45	5.70	0.80	3.80	1.10	2.00	5.75	0.60	0.10	0.10	0.60	1.20	0.30	0.80	0.60	0.90	0.50
Lookup soil	CHK	MG-LF	MG	MG	MG	MG-LF	MG-LF	MG	MG	HEAD							CWF			
Sample Ref	12	8	3	7	9	2	5	2	3	6	2	1	1	2	3	2	3	2	3	2
Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
103-33-3	Azobenzene	SOLID - INITIAL	0.38	mg/kg	ug/kg															
106-47-8	4-Chloroaniline	SOLID - INITIAL	0.01	mg/kg	ug/kg															
700-57-23	4-Chlorophenylphenylether	SOLID - INITIAL	#N/A	mg/kg	ug/kg															
88-74-4	2-Nitroaniline	SOLID - INITIAL	0.01	mg/kg	ug/kg															
99-09-2	3-Nitroaniline	SOLID - INITIAL	#N/A	mg/kg	ug/kg															
994-05-8	Tertiary Amyl Methyl Ether	SOLID - INITIAL	#N/A	mg/kg	ug/kg															
1336-36-6	PCB Total (WAC only)	SOLID	#N/A	mg/kg	mg/kg															
P1330	BTEX (total) WAC	SOLID	#N/A	mg/kg	mg/kg															

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Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	Hole Ref	PFWS10	PFWS12	PFWS12	PFWS13	PFWS16	PFWS26	PFWS27	PFWS28	PFWS31	PFWS31	PFWS32	PFWS34	PFWS37	PFWS40	PFWS41	PFWS44	AEC18-LF-PFWS61A	AEC18-LF-PFWS61A	AEC18-LF-PFWS61A	PFWSHH01	
						Sample Top	1.00	0.20	1.00	0.60	0.30	0.20	0.30	0.40	0.20	0.50	0.40	0.50	0.60	1.00	1.00	0.50	0.20	1.50	2.50	0.50	0.20
Lookup soil									CWF						CWF								TS	MADE GROUND	MG-LF		
Sample Ref							3	1	3	2	1	1	1	2	1	2	1	2	2	2	2	3	2	1	2	3	2
ES						ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	
108-67-8	1,3,5-Trimethylbenzene	SOLID - INITIAL	0.15	mg/kg	mg/kg																						
108-86-1	Bromobenzene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
108-90-7	Chlorobenzene	SOLID - INITIAL	4.46	mg/kg	mg/kg																						
108-95-2	Phenol	SOLID - INITIAL	0.04	mg/kg	mg/kg																						
111-91-1	Bis(2-chloroethoxy)methane	SOLID - INITIAL	0.01	mg/kg	mg/kg																						
117-81-7	Bis(2-ethylhexyl)phthalate	SOLID - INITIAL	18472.17	mg/kg	mg/kg																						
117-84-0	Di-N-Octyl Phthalate	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
118-74-1	Hexachlorobenzene (HCB)	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
120-82-1	1,2,4-Trichlorobenzene	SOLID - INITIAL	1.81	mg/kg	mg/kg																						
120-83-2	2,4-Dichlorophenol	SOLID - INITIAL	0.28	mg/kg	mg/kg																						
121-14-2	2,4-Dinitrotoluene	SOLID - INITIAL	0.00	mg/kg	mg/kg																						
122-39-4	Diphenylamine	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
124-48-1	Dibromochloromethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
127-18-4	Tetrachloroethene	SOLID - INITIAL	1.46	mg/kg	mg/kg																						
131-11-3	Dimethylphthalate	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
132-64-9	Dibenzofuran	SOLID - INITIAL	0.49	mg/kg	mg/kg																						
135-98-8	Sec-Butylbenzene	SOLID - INITIAL	1.39	mg/kg	mg/kg																						
142-28-9	1,3-Dichloropropane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
156-59-2	cis-1,2-Dichloroethene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
156-60-5	trans-1,2-Dichloroethene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
1634-04-4	Methyl tert-butyl ether (MTBE)	SOLID - INITIAL	#N/A	mg/kg	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
39638-32-9	Bis(2-chloroisopropyl)ether	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
528-29-0	O-Dinitrobenzene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
534-52-1	2-Methyl-4,6-Dinitrophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
541-73-1	1,3-Dichlorobenzene	SOLID - INITIAL	145.60	mg/kg	mg/kg																						
56-23-5	Tetrachloromethane (Carbon Tetra Chloride)	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
563-58-6	1,1-Dichloropropene	SOLID - INITIAL	0.41	mg/kg	mg/kg																						
58-90-2	2,3,4,6-Tetrachlorophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
594-20-7	2,2-Dichloropropane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
59-50-7	4-Chloro-3-Methylphenol	SOLID - INITIAL	2.93	mg/kg	mg/kg																						
606-20-2	2,6-Dinitrotoluene	SOLID - INITIAL	1.48	mg/kg	mg/kg																						
62-53-3	Aniline	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
630-20-6	1,1,1,2-Tetrachloroethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
67-66-3	Chloroform	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
700-57-23	4-Chlorophenyl Phenyl Ether	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
71-55-6	1,1,1-Trichloroethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
74-95-3	Dibromomethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
74-97-5	Bromochloromethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
75-01-4	Chloroethene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
75-25-2	Tribromomethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
75-27-4	Bromodichloromethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
75-34-3	1,1-Dichloroethane	SOLID - INITIAL	0.01	mg/kg	mg/kg																						
75-35-4	1,1-Dichloroethene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
77-47-4	Hexachlorocyclopentadiene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
78-87-5	1,2-Dichloropropane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
79-00-5	1,1,2-Trichloroethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
79-01-6	Trichloroethene	SOLID - INITIAL	0.09	mg/kg	mg/kg																						
84-66-2	Diethylphthalate	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
84-74-2	Di-N-Butyl Phthalate	SOLID - INITIAL	0.52	mg/kg	mg/kg																						
85-68-7	Butylbenzylphthalate	SOLID - INITIAL	23.36	mg/kg	mg/kg																						
86-74-8	Carbazole	SOLID - INITIAL	0.01	mg/kg	mg/kg																						
87-61-6	1,2,3 Trichlorobenzene	SOLID - INITIAL	0.26	mg/kg	mg/kg																						
87-68-3	Hexachlorobutadiene (HCBd)	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
87-86-5	Pentachlorophenol (PCP)	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
88-06-2	2,4,6-Trichlorophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
88-74-4	2-Nitroaniline	SOLID - INITIAL	0.01	mg/kg	mg/kg																						
91-57-6	2-Methylnaphthalene	SOLID - INITIAL	0.84	mg/kg	mg/kg																						
91-58-7	2-Chloronaphthalene	SOLID - INITIAL	0.92	mg/kg	mg/kg																						
935-95-5	2,3,5,6-Tetrachlorophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
95-47-6	Xylene	SOLID - INITIAL	0.23	mg/kg	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
95-48-7	2-Methylphenol	SOLID - INITIAL	0.54	mg/kg	mg/kg																						
95-49-8	2-Chlorotoluene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
95-50-1	1,2-Dichlorobenzene	SOLID - INITIAL	40.42	mg/kg	mg/kg																						
95-57-8	2-Chlorophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
95-63-6	1,2,4-Trimethylbenzene	SOLID - INITIAL	0.25	mg/kg	mg/kg																						
95-95-4	2,4,5-Trichlorophenol	SOLID - INITIAL	60.93	mg/kg	mg/kg																						
96-12-8	1,2-Dibromo-3-Chloropropane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
96-18-4	1,2,3-Trichloropropane	SOLID - INITIAL	0.44	mg/kg	mg/kg																						

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G2 RTM Level 1 - Soils

Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	Hole Ref	PFWS10	PFWS12	PFWS12	PFWS13	PFWS16	PFWS26	PFWS27	PFWS28	PFWS31	PFWS31	PFWS32	PFWS34	PFWS37	PFWS40	PFWS41	PFWS44	AEC18-LF-PFWS61A	AEC18-LF-PFWS61A	AEC18-LF-PFWS61A	PFWSHH01	
						Sample Top	1.00	0.20	1.00	0.60	0.30	0.20	0.30	0.40	0.20	0.50	0.40	0.50	0.60	1.00	1.00	0.50	0.20	1.50	2.50	0.50	0.20
						Lookup soil				CWF					CWF								TS	MADE GROUND	MG-LF		
						Sample Ref	3	1	3	2	1	1	1	2	1	2	1	2	2	2	2	3	2	1	2	3	2
						ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	
71-55-6	1,1,1-Trichloroethane	SOLID	#N/A	mg/kg	ug/kg			<1							<1												
7440-39-3	Barium	SOLID	78.73	mg/kg	mg/kg		69.0	29.0	202.0	77.0	58.0	50.0	145.0	163.0	85.0	106.0	76.0	102.0	62.0	71.0	71.0	113.0				118.0	
74-83-9	Bromomethane	SOLID	#N/A	mg/kg	ug/kg			<1							<1												
74-87-3	Chloromethane	SOLID	0.02	mg/kg	ug/kg			<10							<10												
74-95-3	Dibromomethane	SOLID	#N/A	mg/kg	ug/kg			<1							<1												
74-97-5	Bromochloromethane	SOLID	#N/A	mg/kg	ug/kg			<5							<5												
75-00-3	Chloroethane	SOLID	#N/A	mg/kg	ug/kg			<1							<1												
75-01-4	Vinyl Chloride	SOLID	#N/A	mg/kg	ug/kg			<1							<1												
75-09-2	Dichloromethane	SOLID	0.03	mg/kg	ug/kg			<5							<5												
75-15-0	Carbon Disulphide	SOLID	0.07	mg/kg	ug/kg			<1							<1												
75-25-2	Bromoform	SOLID	#N/A	mg/kg	ug/kg			<1							<1												
75-27-4	Bromodichloromethane	SOLID	#N/A	mg/kg	ug/kg			<10							<10												
75-34-3	1,1-Dichloroethane	SOLID	0.01	mg/kg	ug/kg			<1							<1												
75-35-4	1,1-Dichloroethene	SOLID	#N/A	mg/kg	ug/kg			<1							<1												
75-69-4	Trichlorofluoromethane	SOLID	0.05	mg/kg	ug/kg			<1							<1												
75-71-8	Dichlorodifluoromethane	SOLID	#N/A	mg/kg	ug/kg			<1							<1												
77-47-4	Hexachlorocyclopentadiene	SOLID	#N/A	mg/kg	ug/kg			<200							<100												
78-59-1	Isophorone	SOLID	22.26	mg/kg	ug/kg			<200							<100												
78-87-5	1,2-Dichloropropane	SOLID	#N/A	mg/kg	ug/kg			<1							<1												
79-00-5	1,1,2-Trichloroethane	SOLID	#N/A	mg/kg	ug/kg			<1							<1												
79-01-6	Trichloroethene	SOLID	0.09	mg/kg	ug/kg			<1							<1												
79-34-5	1,1,2,2-Tetrachloroethane	SOLID	2.66	mg/kg	ug/kg			<1							<1												
84-66-2	Diethyl phthalate	SOLID	3.11	mg/kg	ug/kg			<200							<100												
84-74-2	Di-N-Butyl Phthalate	SOLID	0.52	mg/kg	ug/kg			<200							<100												
85-68-7	Butylbenzyl phthalate	SOLID	23.36	mg/kg	ug/kg			<200							<100												
86-74-8	Carbazole	SOLID	0.01	mg/kg	ug/kg			<200							<100												
87-61-6	1,2,3-Trichlorobenzene	SOLID	#N/A	mg/kg	ug/kg			<3							<3												
87-68-3	Hexachlorobutadiene	SOLID	#N/A	mg/kg	ug/kg			<1							<1												
87-86-5	Pentachlorophenol	SOLID	2.17	mg/kg	ug/kg			<200							<100												
88-06-2	2,4,6-Trichlorophenol	SOLID	#N/A	mg/kg	ug/kg			<200							<100												
88-75-5	2-Nitrophenol	SOLID	0.03	mg/kg	ug/kg			<200							<100												
91-57-6	2-Methylnaphthalene (SVOC) DEFAULT	SOLID	0.84	mg/kg	ug/kg			<200							<100												
91-58-7	2-Chloronaphthalene	SOLID	0.92	mg/kg	ug/kg			<200							<100												
95-47-6	Xylene	SOLID	0.23	mg/kg	ug/kg			<1							<1												
95-48-7	2-Methylphenol	SOLID	0.54	mg/kg	ug/kg			<200							<100												
95-49-8	2-Chlorotoluene	SOLID	#N/A	mg/kg	ug/kg			<1							<1												
95-50-1	1,2-Dichlorobenzene	SOLID	40.42	mg/kg	ug/kg			<1							<1												
95-57-8	2-Chlorophenol	SOLID	#N/A	mg/kg	ug/kg			<200							<100												
95-63-6	1,2,4-Trimethylbenzene	SOLID	0.25	mg/kg	ug/kg			<1							<1												
95-95-4	2,4,5-Trichlorophenol	SOLID	60.93	mg/kg	ug/kg			<200							<100												
96-12-8	1,2-Dibromo-3-chloropropane	SOLID	#N/A	mg/kg	ug/kg			<2							<2												
96-18-4	1,2,3-Trichloropropane	SOLID	0.44	mg/kg	ug/kg			<1							<1												
98-06-6	tert-Butylbenzene	SOLID	0.75	mg/kg	ug/kg			<2							<2												
98-82-8	Isopropylbenzene	SOLID	0.27	mg/kg	ug/kg			<1							<1												
98-95-3	Nitrobenzene	SOLID	0.00	mg/kg	ug/kg			<200							<100												
99-87-6	4-Isopropyltoluene	SOLID	54.06	mg/kg	ug/kg			<1							<1												
P1374	Xylene	SOLID	0.23	mg/kg	ug/kg			<1							<1												
P1762	TPH Aromatic >C8-C10	SOLID	219.16	mg/kg	mg/kg		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
P1763	TPH Aromatic >C8-C10	SOLID	219.16	mg/kg	mg/kg		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
P1334	pH	SOLID	#N/A	mg/kg	pH		8.6	11.1	8.8	7.9	8.8	10.0	8.1	8.0	8.3	7.8	7.7	8.5	8.2	8.3	8.3	7.9				8.9	
101-21-3	Chlorpropham	SOLID	#N/A	mg/kg	mg/kg																						
1014-70-6	Simetryn SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																						
1024-57-3	Heptachlor Epoxide	SOLID	#N/A	mg/kg	ug/kg																						
1031-07-8	Endosulphan Sulphate	SOLID	#N/A	mg/kg	ug/kg																						
117-18-0	Tecnazene	SOLID	#N/A	mg/kg	ug/kg																						
120-36-5	2,4-DP; (Dichlorprop)	SOLID	#N/A	mg/kg	mg/kg																						
121-75-5	Malathion	SOLID	#N/A	mg/kg	ug/kg																						
122-14-5	Fenitrothion	SOLID	#N/A	mg/kg	ug/kg																						
122-34-9	Simazine SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																						
122-42-9	Propham	SOLID	#N/A	mg/kg	mg/kg																						
122-88-3	4-CPA	SOLID	#N/A	mg/kg	mg/kg																						
13684-63-4	Phenmedipham	SOLID	#N/A	mg/kg	mg/kg																						
139-40-2	Propazine SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																						
1461-22-9	Tributyltin SUBCON i2	SOLID	#N/A	mg/kg	ug/kg																						
150-68-5	Monuron	SOLID	#N/A	mg/kg	mg/kg																						
15545-48-9	Chlortoluron	SOLID	#N/A	mg/kg	mg/kg																						
1582-09-8	Trifluralin SUBCON Alcontrol OCP	SOLID	#N/A	mg/kg	ug/kg																						
1610-17-9	Atraton SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																						

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Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	Hole Ref	PFWS10	PFWS12	PFWS12	PFWS13	PFWS16	PFWS26	PFWS27	PFWS28	PFWS31	PFWS31	PFWS32	PFWS34	PFWS37	PFWS40	PFWS41	PFWS44	AEC18-LF-PFWS61A	AEC18-LF-PFWS61A	AEC18-LF-PFWS61A	PFWSHH01	
						Sample Top	1.00	0.20	1.00	0.60	0.30	0.20	0.30	0.40	0.20	0.50	0.40	0.50	0.60	1.00	1.00	0.50	0.20	1.50	2.50	0.50	0.20
						Lookup soil				CWF					CWF							TS	MADE GROUND	MG-LF			
						Sample Ref	3	1	3	2	1	1	1	2	1	2	1	2	2	2	2	3	2	1	2	3	2
						ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	
1610-18-0	Prometon SUBCON Alcontrol	SOLID	#/N/A	mg/kg	ug/kg																						
16118-49-3	Carbetamide	SOLID	#/N/A	mg/kg	mg/kg																						
1689-83-4	loxynil	SOLID	#/N/A	mg/kg	mg/kg																						
1689-84-5	Bromoxynil	SOLID	#/N/A	mg/kg	mg/kg																						
1702-17-6	Clopyralid	SOLID	#/N/A	mg/kg	mg/kg																						
1746-81-2	Monolinuron	SOLID	#/N/A	mg/kg	mg/kg																						
18691-97-9	Methabenzthiazuron	SOLID	#/N/A	mg/kg	mg/kg																						
1897-45-6	Chlorothalonil	SOLID	#/N/A	mg/kg	ug/kg																						
1912-24-9	Atrazine SUBCON Alcontrol	SOLID	#/N/A	mg/kg	ug/kg																						
1918-00-9	Dicamba	SOLID	#/N/A	mg/kg	mg/kg																						
6607	Picloram	SOLID	#/N/A	mg/kg	mg/kg																						
1967-16-4	Chlorbufam	SOLID	#/N/A	mg/kg	mg/kg																						
1982-47-4	Chloroxuron	SOLID	#/N/A	mg/kg	mg/kg																						
19937-59-8	Metoxuron	SOLID	#/N/A	mg/kg	mg/kg																						
2132-70-9	p,p-Methoxychlor	SOLID	#/N/A	mg/kg	ug/kg																						
2274-67-1	Chlorpyrifos-methyl	SOLID	#/N/A	mg/kg	ug/kg																						
2303-17-5	Triallate	SOLID	#/N/A	mg/kg	ug/kg																						
2310-17-0	Phosalone	SOLID	#/N/A	mg/kg	ug/kg																						
23103-98-2	Pirimicarb	SOLID	#/N/A	mg/kg	mg/kg																						
24017-47-8	Triazophos	SOLID	#/N/A	mg/kg	ug/kg																						
25057-89-0	Bentazone	SOLID	#/N/A	mg/kg	mg/kg																						
2642-71-9	Azinphos-ethyl	SOLID	#/N/A	mg/kg	ug/kg																						
2921-88-2	Chlorpyrifos	SOLID	#/N/A	mg/kg	ug/kg																						
29232-93-7	Pirimiphos Methyl	SOLID	#/N/A	mg/kg	ug/kg																						
297-78-9	Telodrin	SOLID	#/N/A	mg/kg	ug/kg																						
298-00-0	Methyl Parathion	SOLID	#/N/A	mg/kg	ug/kg																						
298-01-1	Mevinphos	SOLID	#/N/A	mg/kg	ug/kg																						
298-04-4	Disulfoton SUBCON OCP Alcontrol	SOLID	#/N/A	mg/kg	ug/kg																						
29973-13-5	Ethiofencarb	SOLID	#/N/A	mg/kg	mg/kg																						
30667-99-3	o,p-Methoxychlor	SOLID	#/N/A	mg/kg	ug/kg																						
309-00-2	Aldrin SUBCON Alcontrol	SOLID	#/N/A	mg/kg	ug/kg																						
31218-83-4	Propetamphos	SOLID	#/N/A	mg/kg	ug/kg																						
314-40-9	Bromacil	SOLID	#/N/A	mg/kg	mg/kg																						
319-84-6	alpha-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	SOLID	#/N/A	mg/kg	ug/kg																						
	beta-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	SOLID	#/N/A	mg/kg	ug/kg																						
319-85-7		SOLID	#/N/A	mg/kg	ug/kg																						
330-54-1	Diuron SUBCON RPS MH	SOLID	#/N/A	mg/kg	mg/kg																						
330-55-2	Linuron	SOLID	#/N/A	mg/kg	mg/kg																						
33213-65-9	Endosulphan II	SOLID	#/N/A	mg/kg	ug/kg																						
333-41-5	Diazinon	SOLID	#/N/A	mg/kg	ug/kg																						
34123-59-6	Isoproturon	SOLID	#/N/A	mg/kg	mg/kg																						
34205-21-5	Dimefuron	SOLID	#/N/A	mg/kg	mg/kg																						
3424-82-6	o,p-DDE	SOLID	#/N/A	mg/kg	ug/kg																						
35367-38-5	Diflufenzuron	SOLID	#/N/A	mg/kg	mg/kg																						
698836	Benazolin	SOLID	#/N/A	mg/kg	mg/kg																						
38260-54-7	Etrimephos	SOLID	#/N/A	mg/kg	ug/kg																						
40483-25-2	Diclofop	SOLID	#/N/A	mg/kg	mg/kg																						
40487-42-1	Pendimethalin	SOLID	#/N/A	mg/kg	ug/kg																						
43121-43-3	Triadimefon	SOLID	#/N/A	mg/kg	ug/kg																						
465-73-6	Isodrin	SOLID	#/N/A	mg/kg	ug/kg																						
470-90-6	Chlorfenvinphos	SOLID	#/N/A	mg/kg	ug/kg																						
50-29-3	p,p-DDT SUBCON Alcontrol	SOLID	#/N/A	mg/kg	ug/kg																						
50-31-7	2,3,6-TBA	SOLID	#/N/A	mg/kg	mg/kg																						
5103-71-9	cis-Chlordane SUBCON Alcontrol	SOLID	#/N/A	mg/kg	ug/kg																						
5103-74-2	trans-Chlordane SUBCON Alcontrol	SOLID	#/N/A	mg/kg	ug/kg																						
51630-58-1	Fenvalerate SUBCON RPS MH	SOLID	#/N/A	mg/kg	mg/kg																						
52315-07-8	Cypermethrin SUBCON RPS MH	SOLID	#/N/A	mg/kg	mg/kg																						
52645-53-1	Permethrin SUBCON RPS MH Pyrethroids	SOLID	#/N/A	mg/kg	mg/kg																						
52756-22-6	Flamprop-isopropyl	SOLID	#/N/A	mg/kg	mg/kg																						
52918-63-5	Deltamethrin SUBCON RPS MH	SOLID	#/N/A	mg/kg	mg/kg																						
53-19-0	o,p-TDE (DDD)	SOLID	#/N/A	mg/kg	ug/kg																						
55335-06-3	Triclopyr	SOLID	#/N/A	mg/kg	mg/kg																						
55-38-9	Fenthion	SOLID	#/N/A	mg/kg	ug/kg																						
563-12-2	Ethion	SOLID	#/N/A	mg/kg	ug/kg																						
56-38-2	Parathion (Ethyl Parathion)	SOLID	#/N/A	mg/kg	ug/kg																						
58667-63-3	Fiamprop	SOLID	#/N/A	mg/kg	mg/kg																						

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Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	Hole Ref	PFWS10	PFWS12	PFWS12	PFWS13	PFWS16	PFWS26	PFWS27	PFWS28	PFWS31	PFWS31	PFWS32	PFWS34	PFWS37	PFWS40	PFWS41	PFWS44	AEC18-LF-PFWS61A	AEC18-LF-PFWS61A	AEC18-LF-PFWS61A	PFWSHH01
						Sample Top	Lookup soil	Sample Ref	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
58-89-9	gamma-Hexachlorocyclohexane (HCH / Lindane)	SUBCON Alcontrol	#N/A	mg/kg	ug/kg																					
5915-41-3	Terbutylazine SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																					
60-51-5	Dimethoate	SOLID	#N/A	mg/kg	ug/kg																					
60-57-1	Dieldrin SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																					
61949-76-6	Permethrin I (cis) SUBCON Alcontrol OCP	SOLID	#N/A	mg/kg	ug/kg																					
61949-77-7	Permethrin II (trans) SUBCON Alcontrol OCP	SOLID	#N/A	mg/kg	ug/kg																					
62-73-7	Dichlorvos	SOLID	#N/A	mg/kg	ug/kg																					
639-58-7	Triphenyltin SUBCON I2	SOLID	#N/A	mg/kg	ug/kg																					
66063-05-6	Pencycuron	SOLID	#N/A	mg/kg	mg/kg																					
68085-85-8	Cyhalothrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																					
683-18-1	Dibutyltin Subcon I2	SOLID	#N/A	mg/kg	ug/kg																					
68359-37-5	Cyfluthrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																					
72-20-8	Endrin SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																					
72-54-8	p,p-TDE (DDD)	SOLID	#N/A	mg/kg	ug/kg																					
72-55-9	p,p-DDE	SOLID	#N/A	mg/kg	ug/kg																					
7287-19-6	Prometryn SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																					
76-44-8	Heptachlor SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																					
786-19-6	Carbophenothion	SOLID	#N/A	mg/kg	ug/kg																					
789-02-6	o,p-DDT SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																					
81406-37-3	Fluroxypyr	SOLID	#N/A	mg/kg	mg/kg																					
82-68-8	Quintozene; (PCNB)	SOLID	#N/A	mg/kg	ug/kg																					
834-12-8	Ametryn SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																					
86-50-0	Azinphos-methyl	SOLID	#N/A	mg/kg	ug/kg																					
886-50-0	Terbutryn SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																					
93-65-2	MCPP; (Mecoprop)	SOLID	#N/A	mg/kg	mg/kg																					
93-72-1	2,4,5-TP; (Fenoprop); (Silvex)	SOLID	#N/A	mg/kg	mg/kg																					
93-76-5	2,4,5-T	SOLID	#N/A	mg/kg	mg/kg																					
94-74-6	MCPA	SOLID	#N/A	mg/kg	mg/kg																					
94-75-7	2,4-D	SOLID	#N/A	mg/kg	mg/kg																					
94-81-5	MCPB	SOLID	#N/A	mg/kg	mg/kg																					
94-82-6	2,4-DB	SOLID	#N/A	mg/kg	mg/kg																					
959-98-8	Endosulphan I	SOLID	#N/A	mg/kg	ug/kg																					
P1362	TPH Aromatic >C35-C44	SOLID	657.18	mg/kg	mg/kg																					
P1415	TPH Aliphatic >C35-C44	SOLID	6927070.30	mg/kg	mg/kg																					
120-12-7	Anthracene	SOLID	0.16	mg/kg	ug/kg																					
129-00-0	Pyrene	SOLID	1.88	mg/kg	ug/kg																					
191-24-2	Benzo(g,h,i)perylene	SOLID	2.42	mg/kg	ug/kg																					
193-39-5	Indeno(1,2,3-cd)pyrene	SOLID	0.51	mg/kg	ug/kg																					
205-99-2	Benzo(b)fluoranthene	SOLID	0.61	mg/kg	ug/kg																					
206-44-0	Fluoranthene	SOLID	0.01	mg/kg	ug/kg																					
207-08-9	Benzo(k)fluoranthene	SOLID	0.86	mg/kg	ug/kg																					
208-96-8	Acenaphthylene	SOLID	1.01	mg/kg	ug/kg																					
218-01-9	Chrysene	SOLID	6.38	mg/kg	ug/kg																					
50-32-8	Benzo(a)pyrene	SOLID	0.07	mg/kg	ug/kg																					
53-70-3	Dibenzo(a,h)anthracene	SOLID	10.80	mg/kg	ug/kg																					
56-55-3	Benzo(a)anthracene	SOLID	4.50	mg/kg	ug/kg																					
83-32-9	Acenaphthene	SOLID	965.39	mg/kg	ug/kg																					
85-01-8	Phenanthrene	SOLID	3.35	mg/kg	ug/kg																					
86-73-7	Fluorene	SOLID	1.76	mg/kg	ug/kg																					
91-20-3	Napthalene	SOLID	0.08	mg/kg	ug/kg																					
302-04-5	Thiocyanate	SOLID	62.96	mg/kg	mg/kg																					
P1879	Xylenols	SOLID - INITIAL	2.39	mg/kg	mg/kg																		<0.015	<0.015	0.1	
P2098	Cresols	SOLID - INITIAL	0.54	mg/kg	mg/kg																		<0.01	<0.01	<0.01	
12001-28-4	Asbestos: Crocidolite	SOLID - INITIAL	#N/A	mg/kg	No units																					
12001-29-5	Asbestos: Chrysotile	SOLID - INITIAL	#N/A	mg/kg	No units																					
12172-67-7	Asbestos: Actinolite	SOLID - INITIAL	#N/A	mg/kg	No units																					
12172-73-5	Asbestos: Amosite	SOLID - INITIAL	#N/A	mg/kg	No units																					
14567-73-8	Asbestos: Tremolite	SOLID - INITIAL	#N/A	mg/kg	No units																					
17068-78-9	Asbestos: Anthophyllite	SOLID - INITIAL	#N/A	mg/kg	No units																					
1002-53-5	Dibutyl Tin	SOLID - INITIAL	0.00	mg/kg	mg/kg																					
1461-22-9	Tributyltin	SOLID - INITIAL	0.00	mg/kg	mg/kg																					
1461-25-2	Tetrabutyl Tin	SOLID - INITIAL	0.00	mg/kg	mg/kg																					
1634-04-4	Methyl tert-butyl ether (MTBE)	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					
1746-01-6	2,3,7,8-Tetrachlorodibenzo-p-dioxin	SOLID - INITIAL	#N/A	mg/kg	ng/g																					
181274-15-7	Propoxycarbazone-sodium	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-P-Dioxin	SOLID - INITIAL	94064.99	mg/kg	ng/g																					
298-02-2	Phorate	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					

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Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	Hole Ref	PFWS10	PFWS12	PFWS12	PFWS13	PFWS16	PFWS26	PFWS27	PFWS28	PFWS31	PFWS31	PFWS32	PFWS34	PFWS37	PFWS40	PFWS41	PFWS44	AEC18-LF-PFWS61A	AEC18-LF-PFWS61A	AEC18-LF-PFWS61A	PFWSHH01
						Sample Top	Lookup soil	Sample Ref	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
31508-00-6	PCB-118 2,3',4,4',5 - Pentachlorobiphenyl	SOLID - INITIAL	694.02	mg/kg	ng/g																					
32598-13-3	PCB 77	SOLID - INITIAL	6185.41	mg/kg	ng/g																					
32598-14-4	PCB 105	SOLID - INITIAL	8940.63	mg/kg	ng/g																					
3268-87-9	Octachlorodibenzo-p-dioxin	SOLID - INITIAL	91923.81	mg/kg	ng/g																					
32774-16-6	PCB 169	SOLID - INITIAL	37270.75	mg/kg	ng/g																					
3380-34-5	Triclosan	SOLID - INITIAL	0.33	mg/kg	mg/kg																					
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-P-Dioxin	SOLID - INITIAL	91923.81	mg/kg	ng/g																					
38380-08-4	PCB-156 2,3,3,4,4,5 - Hexachlorobiphenyl	SOLID - INITIAL	3172.26	mg/kg	ng/g																					
39001-02-0	Octachlorodibenzofuran	SOLID - INITIAL	46180.43	mg/kg	ng/g																					
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-P-Dioxin	SOLID - INITIAL	36595.53	mg/kg	ng/g																					
39635-31-9	PCB 189	SOLID - INITIAL	270002.64	mg/kg	ng/g																					
40321-76-4	1,2,3,7,8-Pentachlorodibenzo-P-Dioxin	SOLID - INITIAL	#N/A	mg/kg	ng/g																					
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	SOLID - INITIAL	393.06	mg/kg	ng/g																					
52645-53-1	Permethrin	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					
52663-72-6	PCB 167	SOLID - INITIAL	45853.03	mg/kg	ng/g																					
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	SOLID - INITIAL	9648.46	mg/kg	ng/g																					
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	SOLID - INITIAL	964.85	mg/kg	ng/g																					
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	SOLID - INITIAL	715.25	mg/kg	ng/g																					
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	SOLID - INITIAL	715.25	mg/kg	ng/g																					
57465-28-8	PCB 126	SOLID - INITIAL	8940.63	mg/kg	ng/g																					
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-P-Dioxin	SOLID - INITIAL	91923.81	mg/kg	ng/g																					
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofura	SOLID - INITIAL	715.25	mg/kg	ng/g																					
62476-59-9	Acifluorfen	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
65510-44-3	PCB 123	SOLID - INITIAL	8940.63	mg/kg	ng/g																					
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	SOLID - INITIAL	715.25	mg/kg	ng/g																					
69782-90-7	PCB 157	SOLID - INITIAL	45853.03	mg/kg	ng/g																					
70362-50-4	PCB 81	SOLID - INITIAL	8940.63	mg/kg	ng/g																					
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	SOLID - INITIAL	715.25	mg/kg	ng/g																					
7085-19-0	mecoprop	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
72-43-5	Methoxychlor	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	SOLID - INITIAL	#N/A	mg/kg	ng/g																					
74472-37-0	PCB 114	SOLID - INITIAL	8940.63	mg/kg	ng/g																					
88-85-7	Dinoseb	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
892-20-6	Triphenyltin	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
P1330	BTEX	SOLID - INITIAL	0.00	mg/kg	ug/kg																					
P1354	TPH Aromatic >C6-C7	SOLID - INITIAL	0.05	mg/kg	ug/kg																					
P1355	TPH Aromatics > C7-C8	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					
P1356	Aromatics >C8-10	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					
P1357	Aromatics >C10-12	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					
P1358	Aromatics >C12-16	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					
P1359	Aromatics >C16-21	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					
P1360	Aromatics >C21-35	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					
P1362	Aromatics >C35-44	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					
P1407	Aliphatics >C5-6	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					
P1408	Aliphatics >C6-8	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					
P1409	Aliphatics >C8-10	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					
P1410	Aliphatics >C10-12	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					
P1411	Aliphatics >C12-16	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					
P1412	Aliphatics >C16-21	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					
P1413	Aliphatics >C21-35	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					
P1415	Aliphatics >C35-44	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					
15541-45-4	Bromate	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
16065-83-1	Trivalent Chromium	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
16887-00-6	Chloride	SOLID - INITIAL	268.18	mg/kg	mg/kg																					
16984-48-8	Fluoride	SOLID - INITIAL	0.41	mg/kg	mg/kg																					
18496-25-8	Sulphide	SOLID - INITIAL	#VALUE!	mg/kg	mg/kg																					
24959-67-9	Bromide	SOLID - INITIAL	#VALUE!	mg/kg	mg/kg																					
7439-89-6	Iron	SOLID - INITIAL	44.05	mg/kg	mg/kg																					
7439-95-4	Magnesium	SOLID - INITIAL	0.00	mg/kg	mg/kg																					
7439-98-7	Molybdenum	SOLID - INITIAL	0.10	mg/kg	mg/kg																					
2023695	Potassium	SOLID - INITIAL	0.00	mg/kg	mg/kg																					
7440-23-5	Sodium	SOLID - INITIAL	263.64	mg/kg	mg/kg																					
7440-70-2	Calcium	SOLID - INITIAL	0.00	mg/kg	mg/kg																					
P1238	Ammoniacal Nitrogen as N	SOLID - INITIAL	0.11	mg/kg	mg/kg																					
P1286	Manganese	SOLID - INITIAL	2.51	mg/kg	mg/kg																					
100-01-6	4-Nitroaniline	SOLID - INITIAL	0.00	mg/kg	ug/kg																					
101-55-3	4-Bromophenyl Phenyl Ether	SOLID - INITIAL																								

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Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	Hole Ref	PFWS10	PFWS12	PFWS12	PFWS13	PFWS16	PFWS26	PFWS27	PFWS28	PFWS31	PFWS31	PFWS32	PFWS34	PFWS37	PFWS40	PFWS41	PFWS44	AEC18-LF-PFWS61A	AEC18-LF-PFWS61A	AEC18-LF-PFWS61A	PFWSHH01
						Sample Top	Lookup soil	Sample Ref	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
103-33-3	Azobenzene	SOLID - INITIAL	0.38	mg/kg	ug/kg																					
106-47-8	4-Chloroaniline	SOLID - INITIAL	0.01	mg/kg	ug/kg																					
700-57-23	4-Chlorophenylphenylether	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					
88-74-4	2-Nitroaniline	SOLID - INITIAL	0.01	mg/kg	ug/kg																					
99-09-2	3-Nitroaniline	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					
994-05-8	Tertiary Amyl Methyl Ether	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					
1336-36-6	PCB Total (WAC only)	SOLID	#N/A	mg/kg	mg/kg																					
P1330	BTEX (total) WAC	SOLID	#N/A	mg/kg	mg/kg																					

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Hole Ref	PFWSHH03	PFWSHH04	AEC18-LF-TP202	AEC18-LF-TP202	AEC18-LF-TP202	AEC18-LF-TP203 (PFTP14)	AEC18-LF-TP203 (PFTP14)	AEC18-LF-TP203 (PFTP14)	AEC18-LF-TP204	AEC18-LF-TP204	AEC18-LF-TP205	AEC18-LF-TP205	AEC18-LF-TP206	AEC18-LF-TP206	AEC18-LF-TP207	AEC18-LF-TP207	AEC18-LF-TP208	AEC18-LF-TP208	AEC18-LF-TP208	AEC18-LF-TP209
Sample Top	0.50	1.00	0.20	1.50	4.50	0.20	1.80	2.80	0.50	4.50	0.10	2.50	0.80	3.30	1.60	3.60	0.60	1.60	2.90	1.20
Lookup soil			TS	MADE GROUND	MG-LF	MADE GROUND	MG-LF	MG-LF	MADE GROUND	MG-LF	MADE GROUND	MG-LF	MADE GROUND	MADE GROUND	MG-LF	MG-LF	MADE GROUND	MG-LF	MG-LF	MG-LF
Sample Ref	2	3	1	3	6	1	3	4	1	5		3	2	5	3	5	2	3	4	2
Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES

Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	
1610-18-0	Prometon SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																	
16118-49-3	Carbetamide	SOLID	#N/A	mg/kg	mg/kg																	
1689-83-4	loxynil	SOLID	#N/A	mg/kg	mg/kg								<0.01	<0.01								
1689-84-5	Bromoxynil	SOLID	#N/A	mg/kg	mg/kg								<0.01	<0.01								
1702-17-6	Clopyralid	SOLID	#N/A	mg/kg	mg/kg																	
1746-81-2	Monolinuron	SOLID	#N/A	mg/kg	mg/kg																	
18691-97-9	Methabenzthiazuron	SOLID	#N/A	mg/kg	mg/kg																	
1897-45-6	Chlorothalonil	SOLID	#N/A	mg/kg	ug/kg									<50								
1912-24-9	Atrazine SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																	
1918-00-9	Dicamba	SOLID	#N/A	mg/kg	mg/kg									<0.01	<0.01							
6607	Picloram	SOLID	#N/A	mg/kg	mg/kg																	
1967-16-4	Chlorbufam	SOLID	#N/A	mg/kg	mg/kg																	
1982-47-4	Chloroxuron	SOLID	#N/A	mg/kg	mg/kg																	
19937-59-8	Metoxuron	SOLID	#N/A	mg/kg	mg/kg																	
2132-70-9	p,p-Methoxychlor	SOLID	#N/A	mg/kg	ug/kg																	
2274-67-1	Chlorpyrifos-methyl	SOLID	#N/A	mg/kg	ug/kg																	
2303-17-5	Triallate	SOLID	#N/A	mg/kg	ug/kg																	
2310-17-0	Phosalone	SOLID	#N/A	mg/kg	ug/kg																	
23103-98-2	Pirimicarb	SOLID	#N/A	mg/kg	mg/kg																	
24017-47-8	Triazophos	SOLID	#N/A	mg/kg	ug/kg																	
25057-89-0	Bentazone	SOLID	#N/A	mg/kg	mg/kg																	
2642-71-9	Azinphos-ethyl	SOLID	#N/A	mg/kg	ug/kg									<0.01	<0.01							
2921-88-2	Chlorpyrifos	SOLID	#N/A	mg/kg	ug/kg																	
29232-93-7	Pirimiphos Methyl	SOLID	#N/A	mg/kg	ug/kg																	
297-78-9	Telodrin	SOLID	#N/A	mg/kg	ug/kg																	
298-00-0	Methyl Parathion	SOLID	#N/A	mg/kg	ug/kg																	
298-01-1	Mevinphos	SOLID	#N/A	mg/kg	ug/kg																	
298-04-4	Disulfoton SUBCON OCP Alcontrol	SOLID	#N/A	mg/kg	ug/kg																	
29973-13-5	Ethiofencarb	SOLID	#N/A	mg/kg	mg/kg																	
30667-99-3	o,p-Methoxychlor	SOLID	#N/A	mg/kg	ug/kg																	
309-00-2	Aldrin SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																	
31218-83-4	Propetamphos	SOLID	#N/A	mg/kg	ug/kg																	
314-40-9	Bromacil	SOLID	#N/A	mg/kg	mg/kg																	
319-84-6	alpha-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																	
	beta-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																	
319-85-7		SOLID	#N/A	mg/kg	ug/kg																	
330-54-1	Diuron SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																	
330-55-2	Linuron	SOLID	#N/A	mg/kg	mg/kg																	
33213-65-9	Endosulphan II	SOLID	#N/A	mg/kg	ug/kg																	
333-41-5	Diazinon	SOLID	#N/A	mg/kg	ug/kg																	
34123-59-6	Isoproturon	SOLID	#N/A	mg/kg	mg/kg																	
34205-21-5	Dimefuron	SOLID	#N/A	mg/kg	mg/kg																	
3424-82-6	o,p-DDE	SOLID	#N/A	mg/kg	ug/kg																	
35367-38-5	Diflubenuron	SOLID	#N/A	mg/kg	mg/kg																	
698836	Benazolin	SOLID	#N/A	mg/kg	mg/kg																	
38260-54-7	Etrimpfos	SOLID	#N/A	mg/kg	ug/kg																	
40483-25-2	Diclofop	SOLID	#N/A	mg/kg	mg/kg									<0.01	<0.01							
40487-42-1	Pendimethalin	SOLID	#N/A	mg/kg	ug/kg																	
43121-43-3	Triadimefon	SOLID	#N/A	mg/kg	ug/kg																	
465-73-6	Isodrin	SOLID	#N/A	mg/kg	ug/kg																	
470-90-6	Chlorfenvinphos	SOLID	#N/A	mg/kg	ug/kg																	
50-29-3	p,p-DDT SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																	
50-31-7	2,3,6-TBA	SOLID	#N/A	mg/kg	mg/kg																	
5103-71-9	cis-Chlordane SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																	
5103-74-2	trans-Chlordane SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																	
51630-58-1	Fenvalerate SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																	
52315-07-8	Cypermethrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																	
52645-53-1	Permethrin SUBCON RPS MH Pyrethroids	SOLID	#N/A	mg/kg	mg/kg																	
52756-22-6	Flamprop-isopropyl	SOLID	#N/A	mg/kg	mg/kg																	
52918-63-5	Deltamethrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																	
53-19-0	o,p-TDE (DDD)	SOLID	#N/A	mg/kg	ug/kg																	
55335-06-3	Triclopyr	SOLID	#N/A	mg/kg	mg/kg																	
55-38-9	Fenthion	SOLID	#N/A	mg/kg	ug/kg																	
563-12-2	Ethion	SOLID	#N/A	mg/kg	ug/kg																	
56-38-2	Parathion (Ethyl Parathion)	SOLID	#N/A	mg/kg	ug/kg																	
58667-63-3	Fiamprop	SOLID	#N/A	mg/kg	mg/kg																	

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					Hole Ref	PFWSHH03	PFWSHH04	AEC18-LF-TP202	AEC18-LF-TP202	AEC18-LF-TP202	AEC18-LF-TP203 (PFTP14)	AEC18-LF-TP203 (PFTP14)	AEC18-LF-TP203 (PFTP14)	AEC18-LF-TP204	AEC18-LF-TP204	AEC18-LF-TP205	AEC18-LF-TP205	AEC18-LF-TP206	AEC18-LF-TP206	AEC18-LF-TP207	AEC18-LF-TP207	AEC18-LF-TP208	AEC18-LF-TP208	AEC18-LF-TP208	AEC18-LF-TP209
					Sample Top	0.50	1.00	0.20	1.50	4.50	0.20	1.80	2.80	0.50	4.50	0.10	2.50	0.80	3.30	1.60	3.60	0.60	1.60	2.90	1.20
					Lookup soil			TS	MADE GROUND	MG-LF	MADE GROUND	MG-LF	MG-LF	MADE GROUND	MG-LF	MADE GROUND	MG-LF	MADE GROUND	MADE GROUND	MG-LF	MG-LF	MADE GROUND	MG-LF	MG-LF	MG-LF
					Sample Ref	2	3	1	3	6	1	3	4	1	5		3	2	5	3	5	2	3	4	2
Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
103-33-3	Azobenzene	SOLID - INITIAL	0.38	mg/kg	ug/kg							<500	<200							<200	<100			<200	<100
106-47-8	4-Chloroaniline	SOLID - INITIAL	0.01	mg/kg	ug/kg							<500	<200							<200	<100			<200	<100
700-57-23	4-Chlorophenylphenylether	SOLID - INITIAL	#N/A	mg/kg	ug/kg							<500	<200							<200	<100			<200	<100
88-74-4	2-Nitroaniline	SOLID - INITIAL	0.01	mg/kg	ug/kg							<500	<200							<200	<100			<200	<100
99-09-2	3-Nitroaniline	SOLID - INITIAL	#N/A	mg/kg	ug/kg							<500	<200							<200	<100			<200	<100
994-05-8	Tertiary Amyl Methyl Ether	SOLID - INITIAL	#N/A	mg/kg	ug/kg							<10	<10							<10	<10			<200	<10
1336-36-6	PCB Total (WAC only)	SOLID	#N/A	mg/kg	mg/kg																				
P1330	BTEX (total) WAC	SOLID	#N/A	mg/kg	mg/kg																				

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Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	AEC18-LF-TP209	AEC18-LF-TP210	AEC18-LF-TP210	AEC18-LF-TP211	AEC18-LF-TP211	AEC18-LF-TP212	AEC18-LF-TP212	AEC18-LF-TP212	AEC18-LF-TP213	AEC18-LF-TP213	AEC18-LF-TP213	AEC18-LF-TP213A	AEC18-LF-TP213A	AEC18-LF-TP213A	AEC18-LF-TP214	AEC18-LF-TP214	AEC18-LF-TP214	AEC18-LF-TP215	AEC18-LF-TP215	AEC18-LF-TP215
						ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
100-41-4	Ethylbenzene	SOLID - INITIAL	0.53	mg/kg	mg/kg																				
108-88-3	Toluene	SOLID - INITIAL	0.88	mg/kg	mg/kg																				
120-12-7	Anthracene	SOLID - INITIAL	0.16	mg/kg	mg/kg																				
129-00-0	Pyrene	SOLID - INITIAL	1.88	mg/kg	mg/kg																				
1330-20-7	Xylene	SOLID - INITIAL	0.23	mg/kg	mg/kg																				
191-24-2	Benzo(g,h,i)perylene	SOLID - INITIAL	2.42	mg/kg	mg/kg																				
193-39-5	Indeno(1,2,3-cd)pyrene	SOLID - INITIAL	0.51	mg/kg	mg/kg																				
205-99-2	Benzo(b)fluoranthene	SOLID - INITIAL	0.61	mg/kg	mg/kg																				
206-44-0	Fluoranthene	SOLID - INITIAL	0.01	mg/kg	mg/kg																				
207-08-9	Benzo(k)fluoranthene	SOLID - INITIAL	0.86	mg/kg	mg/kg																				
208-96-8	Acenaphthylene	SOLID - INITIAL	1.01	mg/kg	mg/kg																				
218-01-9	Chrysene	SOLID - INITIAL	6.38	mg/kg	mg/kg																				
50-32-8	Benzo(a)pyrene	SOLID - INITIAL	0.07	mg/kg	mg/kg																				
53-70-3	Dibenzo(a,h)anthracene	SOLID - INITIAL	10.80	mg/kg	mg/kg																				
56-55-3	Benzo(a)anthracene	SOLID - INITIAL	4.50	mg/kg	mg/kg																				
57-12-5	Cyanide	SOLID - INITIAL	0.26	mg/kg	mg/kg	3.7	<1	<1	<1	<0.5	<1	2.5	<1	<1	1.5	3.2	<1	<1	<1	<1	7.6	<1	<0.5	<1	<0.5
71-43-2	Benzene	SOLID - INITIAL	0.0043	mg/kg	mg/kg																				
7439-92-1	Lead	SOLID - INITIAL	10.00	mg/kg	mg/kg	109.0	403.0	27.0	70.6	0.0	48.5	255.0	99.7	44.6	224.0	274.0	71.0	7.1	138.0	25.4	325.0	103.0	0.0	65.4	0.0
7439-97-6	Mercury	SOLID - INITIAL	0.50	mg/kg	mg/kg	1.6	<0.14	<0.14	<0.14	<0.0001	<0.14	1.0	<0.14	<0.14	<0.14	1.4	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.0001	<0.14	<0.0001
7440-02-0	Nickel	SOLID - INITIAL	10.01	mg/kg	mg/kg	104.0	32.9	32.3	28.9	1.5	17.5	31.0	32.4	17.1	30.9	48.4	20.4	2.9	24.2	24.4	41.1	76.4	0.0	28.4	0.0
7440-36-0	Antimony	SOLID - INITIAL	1.26	mg/kg	mg/kg	10.6	3.6	<0.6	<0.6	0.0	1.0	4.9	1.5	<0.6	<0.6	17.7	<0.6	<0.6	1.0	<0.6	37.9	10.7	<0.6	<0.6	0.0
7440-38-2	Arsenic	SOLID - INITIAL	5.00	mg/kg	mg/kg	15.3	17.6	9.5	15.7	0.0	8.4	14.4	12.4	10.6	18.5	15.1	15.0	0.8	11.3	14.8	14.0	13.3	0.0	21.9	0.0
7440-41-7	Beryllium	SOLID - INITIAL	5.04	mg/kg	mg/kg	<0.01	1.6	2.1	1.1	<0.001	0.7	0.9	1.5	1.5	1.7	0.8	1.3	0.1	1.8	1.2	1.0	0.8	<0.001	1.2	<0.001
7440-42-8	Boron	SOLID - INITIAL	8.69	mg/kg	mg/kg	2.0	1.3	1.3	1.1	4.0	1.5	2.9	2.8	1.5	5.3	3.6	1.4	<1	1.8	<1	19.6	6.5	1.1	1.8	0.9
7440-43-9	Cadmium	SOLID - INITIAL	0.50	mg/kg	mg/kg	3.6	1.1	0.6	0.6	<0.0008	0.1	1.6	0.5	0.2	0.3	2.9	0.1	0.1	1.5	0.4	1.4	0.8	<0.0008	0.8	<0.0008
7440-47-3	Chromium	SOLID - INITIAL	315.49	mg/kg	mg/kg	72.7	30.9	19.9	19.7	0.1	11.3	56.4	21.8	15.5	30.6	94.6	13.4	4.8	21.8	35.4	21.6	44.3	0.1	26.0	0.1
7440-50-8	Copper	SOLID - INITIAL	1002.92	mg/kg	mg/kg	186.0	54.4	19.8	46.1	0.1	14.2	120.0	88.5	21.5	40.2	125.0	30.1	7.4	36.3	20.4	61.7	43.4	0.0	39.5	<0.003
7440-62-2	Vanadium	SOLID - INITIAL	1.01	mg/kg	mg/kg	17.4	46.8	43.2	40.4	<0.01	46.2	27.9	46.0	41.5	67.7	23.3	39.8	2.6	33.3	64.9	30.3	30.9	0.0	49.7	0.0
7440-66-6	Zinc	SOLID - INITIAL	2507.30	mg/kg	mg/kg	423.0	283.0	90.7	133.0	0.2	75.8	535.0	274.0	74.3	170.0	738.0	126.0	35.3	188.0	76.8	354.0	229.0	0.1	143.0	0.2
7782-49-2	Selenium	SOLID - INITIAL	0.50	mg/kg	mg/kg	<1	<1	<1	<1	<0.01	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.01	<1	<0.01
83-32-9	Acenaphthene	SOLID - INITIAL	965.39	mg/kg	mg/kg																				
85-01-8	Phenanthrene	SOLID - INITIAL	3.35	mg/kg	mg/kg																				
86-73-7	Fluorene	SOLID - INITIAL	1.76	mg/kg	mg/kg																				
91-20-3	Napthalene	SOLID - INITIAL	0.08	mg/kg	mg/kg																				
P1186	Phenol	SOLID - INITIAL	0.04	mg/kg	mg/kg	0.1	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	0.2	<0.035	<0.035	0.2	<0.035	<0.035	0.4	<0.035	<0.035	<0.035
P1310	Pah, Total	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
P1334	pH	SOLID - INITIAL	#N/A	mg/kg	pH Units	7.9	8.2	7.9	8.6	8.0	10.3	7.3	7.8	7.7	7.8	7.3	8.0	8.6	8.4	8.1	8.6	8.1	7.7	7.9	7.9
P1355	TPH Aromatic >C7-C8	SOLID - INITIAL	10.42	mg/kg	mg/kg																				
P1356	TPH Aromatic >C8-C10	SOLID - INITIAL	219.16	mg/kg	mg/kg																				
P1357	TPH Aromatic >C10-C12	SOLID - INITIAL	16.54	mg/kg	mg/kg																				
P1358	TPH Aromatic >C12-C16	SOLID - INITIAL	32.96	mg/kg	mg/kg																				
P1359	TPH Aromatic >C16-C21	SOLID - INITIAL	82.76	mg/kg	mg/kg																				
P1360	TPH Aromatic >C21-C35	SOLID - INITIAL	657.18	mg/kg	mg/kg																				
P1407	TPH Aliphatic >C5-6	SOLID - INITIAL	654.68	mg/kg	mg/kg																				
P1408	TPH Aliphatic >C6-8	SOLID - INITIAL	2946.18	mg/kg	mg/kg																				
P1409	TPH Aliphatic >C8-10	SOLID - INITIAL	558.25	mg/kg	mg/kg																				
P1410	TPH Aliphatic >C10-12	SOLID - INITIAL	5510.38	mg/kg	mg/kg																				
P1411	TPH Aliphatic >C12-16	SOLID - INITIAL	87214.59	mg/kg	mg/kg																				
P1412	TPH Aliphatic >C16-21	SOLID - INITIAL	6927070.30	mg/kg	mg/kg																				
P1413	TPH Aliphatic >C21-35	SOLID - INITIAL	6927070.30	mg/kg	mg/kg																				
P1441	TPH Aromatic >C6-C7	SOLID - INITIAL	0.05	mg/kg	mg/kg																				
100-01-6	4-Nitroaniline	SOLID - INITIAL	0.00	mg/kg	mg/kg																				
100-02-7	4-Nitrophenol	SOLID - INITIAL	0.04	mg/kg	mg/kg																				
100-25-4	P-Dinitrobenzene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
100-42-5	Styrene	SOLID - INITIAL	1.04	mg/kg	mg/kg																				
100-51-6	Benzyl Alcohol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
10061-01-5	cis-1,3-Dichloropropene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
10061-02-6	trans-1,3-Dichloropropene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
101-55-3	4-Bromophenyl Phenyl Ether	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
103-33-3	Azobenzene	SOLID - INITIAL	0.38	mg/kg	mg/kg																				
103-65-1	n-propylbenzene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
104-51-8	n-Butylbenzene	SOLID - INITIAL	1.39	mg/kg	mg/kg																				
105-67-9	2,4-Dimethylphenol	SOLID - INITIAL	1.18	mg/kg	mg/kg																				
106-43-4	4-Chlorotoluene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
106-44-5	3/4 Methylphenol	SOLID - INITIAL	0.53	mg/kg	mg/kg																				
106-46-7	1,4-Dichlorobenzene	SOLID - INITIAL	48.01	mg/kg																					

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Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	Hole Ref																			
						AEC18-LF-TP209	AEC18-LF-TP210	AEC18-LF-TP210	AEC18-LF-TP211	AEC18-LF-TP211	AEC18-LF-TP212	AEC18-LF-TP212	AEC18-LF-TP212	AEC18-LF-TP213	AEC18-LF-TP213	AEC18-LF-TP213	AEC18-LF-TP213A	AEC18-LF-TP213A	AEC18-LF-TP213A	AEC18-LF-TP214	AEC18-LF-TP214	AEC18-LF-TP214	AEC18-LF-TP215	AEC18-LF-TP215	
						4.20	0.80	3.00	0.50	3.00	0.50	2.00	4.00	1.50	2.50	3.50	1.50	2.50	3.50	0.50	1.50	2.50	0.80	3.10	4.10
						MADE GROUND	MG-LF	MADE GROUND	MADE GROUND	MG-LF	MADE GROUND	MADE GROUND	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MADE GROUND	MG-LF	MG-LF	MG-LF	MG-LF	MADE GROUND	MG-LF	MG-LF
						5	2	4	2	7	2	4	6	3	5	6	2	3	4	1	2	3	2	4	5
						ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
108-67-8	1,3,5-Trimethylbenzene	SOLID - INITIAL	0.15	mg/kg	mg/kg																				
108-86-1	Bromobenzene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
108-90-7	Chlorobenzene	SOLID - INITIAL	4.46	mg/kg	mg/kg																				
108-95-2	Phenol	SOLID - INITIAL	0.04	mg/kg	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.1	<0.01	<0.01	0.1	<0.01	<0.01	<0.01
111-91-1	Bis(2-chloroethoxy)methane	SOLID - INITIAL	0.01	mg/kg	mg/kg																				
117-81-7	Bis(2-ethylhexyl)phthalate	SOLID - INITIAL	18472.17	mg/kg	mg/kg																				
117-84-0	Di-N-Octyl Phthalate	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
118-74-1	Hexachlorobenzene (HCB)	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
120-82-1	1,2,4-Trichlorobenzene	SOLID - INITIAL	1.81	mg/kg	mg/kg																				
120-83-2	2,4-Dichlorophenol	SOLID - INITIAL	0.28	mg/kg	mg/kg																				
121-14-2	2,4-Dinitrotoluene	SOLID - INITIAL	0.00	mg/kg	mg/kg																				
122-39-4	Diphenylamine	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
124-48-1	Dibromochloromethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
127-18-4	Tetrachloroethene	SOLID - INITIAL	1.46	mg/kg	mg/kg																				
131-11-3	Dimethylphthalate	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
132-64-9	Dibenzofuran	SOLID - INITIAL	0.49	mg/kg	mg/kg																				
135-98-8	Sec-Butylbenzene	SOLID - INITIAL	1.39	mg/kg	mg/kg																				
142-28-9	1,3-Dichloropropane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
156-59-2	cis-1,2-Dichloroethene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
156-60-5	trans-1,2-Dichloroethene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
1634-04-4	Methyl tert-butyl ether (MTBE)	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
39638-32-9	Bis(2-chloroisopropyl)ether	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
528-29-0	O-Dinitrobenzene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
534-52-1	2-Methyl-4,6-Dinitrophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
541-73-1	1,3-Dichlorobenzene	SOLID - INITIAL	145.60	mg/kg	mg/kg																				
56-23-5	Tetrachloromethane (Carbon Tetra Chloride)	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
563-58-6	1,1-Dichloropropene	SOLID - INITIAL	0.41	mg/kg	mg/kg																				
58-90-2	2,3,4,6-Tetrachlorophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
594-20-7	2,2-Dichloropropane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
59-50-7	4-Chloro-3-Methylphenol	SOLID - INITIAL	2.93	mg/kg	mg/kg																				
606-20-2	2,6-Dinitrotoluene	SOLID - INITIAL	1.48	mg/kg	mg/kg																				
62-53-3	Aniline	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
630-20-6	1,1,1,2-Tetrachloroethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
67-66-3	Chloroform	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
700-57-23	4-Chlorophenyl Phenyl Ether	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
71-55-6	1,1,1-Trichloroethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
74-95-3	Dibromomethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
74-97-5	Bromochloromethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
75-01-4	Chloroethene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
75-25-2	Tribromomethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
75-27-4	Bromodichloromethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
75-34-3	1,1-Dichloroethane	SOLID - INITIAL	0.01	mg/kg	mg/kg																				
75-35-4	1,1-Dichloroethene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
77-47-4	Hexachlorocyclopentadiene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
78-87-5	1,2-Dichloropropane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
79-00-5	1,1,2-Trichloroethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
79-01-6	Trichloroethene	SOLID - INITIAL	0.09	mg/kg	mg/kg																				
84-66-2	Diethylphthalate	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
84-74-2	Di-N-Butyl Phthalate	SOLID - INITIAL	0.52	mg/kg	mg/kg																				
85-68-7	Butylbenzylphthalate	SOLID - INITIAL	23.36	mg/kg	mg/kg																				
86-74-8	Carbazole	SOLID - INITIAL	0.01	mg/kg	mg/kg																				
87-61-6	1,2,3 Trichlorobenzene	SOLID - INITIAL	0.26	mg/kg	mg/kg																				
87-68-3	Hexachlorobutadiene (HCBd)	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
87-86-5	Pentachlorophenol (PCP)	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
88-06-2	2,4,6-Trichlorophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
88-74-4	2-Nitroaniline	SOLID - INITIAL	0.01	mg/kg	mg/kg																				
91-57-6	2-Methylnaphthalene	SOLID - INITIAL	0.84	mg/kg	mg/kg																				
91-58-7	2-Chloronaphthalene	SOLID - INITIAL	0.92	mg/kg	mg/kg																				
935-95-5	2,3,5,6-Tetrachlorophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
95-47-6	Xylene	SOLID - INITIAL	0.23	mg/kg	mg/kg																				
95-48-7	2-Methylphenol	SOLID - INITIAL	0.54	mg/kg	mg/kg																				
95-49-8	2-Chlorotoluene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
95-50-1	1,2-Dichlorobenzene	SOLID - INITIAL	40.42	mg/kg	mg/kg																				
95-57-8	2-Chlorophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
95-63-6	1,2,4-Trimethylbenzene	SOLID - INITIAL	0.25	mg/kg	mg/kg					</															

Appendix G

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Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	AEC18-LF-TP209	AEC18-LF-TP210	AEC18-LF-TP210	AEC18-LF-TP211	AEC18-LF-TP211	AEC18-LF-TP212	AEC18-LF-TP212	AEC18-LF-TP212	AEC18-LF-TP213	AEC18-LF-TP213	AEC18-LF-TP213	AEC18-LF-TP213A	AEC18-LF-TP213A	AEC18-LF-TP213A	AEC18-LF-TP214	AEC18-LF-TP214	AEC18-LF-TP214	AEC18-LF-TP215	AEC18-LF-TP215	AEC18-LF-TP215
						4.20	0.80	3.00	0.50	3.00	0.50	2.00	4.00	1.50	2.50	3.50	1.50	2.50	3.50	0.50	1.50	2.50	3.50	0.50	1.50
Sample Ref	Lookup soil	Sample Ref	Sample Ref	Sample Ref	Sample Ref	5	2	4	2	7	2	4	6	3	5	6	2	3	4	1	2	3	2	4	5
Sample Type	Sample Type	Sample Type	Sample Type	Sample Type	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
98-06-6	Tert-Butylbenzene	SOLID - INITIAL	0.75	mg/kg	mg/kg																				
98-82-8	Isopropylbenzene	SOLID - INITIAL	0.27	mg/kg	mg/kg																				
99-09-2	3-Nitroaniline	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
99-65-0	M-Dinitrobenzene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
99-87-6	4-Isopropyltoluene	SOLID - INITIAL	54.06	mg/kg	mg/kg																				
P1374	xylene	SOLID - INITIAL	0.23	mg/kg	mg/kg																				
18540-29-9	chromium hexavalent	SOLID - INITIAL	0.02	mg/kg	mg/kg					<0.3												<0.6	<0.3	<0.6	<0.3
P1095	Cyanide Free	SOLID - INITIAL	#N/A	mg/kg	mg/kg					<0.5													<0.5	<0.5	
P1239	Complex Cyanide	SOLID - INITIAL	0.26	mg/kg	mg/kg					<0.5													<0.5	<0.5	
31508-00-6	PCB-118 2,3,4,4,5 - Pentachlorobiphenyl	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
32598-13-3	PCB 77	SOLID - INITIAL	6185.41	mg/kg	mg/kg																				
32598-14-4	PCB 105	SOLID - INITIAL	8940.63	mg/kg	mg/kg																				
32774-16-6	PCB 169	SOLID - INITIAL	37270.75	mg/kg	mg/kg																				
38380-08-4	PCB-156 2,3,3,4,4,5 - Hexachlorobiphenyl	SOLID - INITIAL	3172.26	mg/kg	mg/kg																				
39635-31-9	PCB 189	SOLID - INITIAL	270002.64	mg/kg	mg/kg																				
52663-72-6	PCB 167	SOLID - INITIAL	45853.03	mg/kg	mg/kg																				
57465-28-8	PCB 126	SOLID - INITIAL	8940.63	mg/kg	mg/kg																				
65510-44-3	PCB 123	SOLID - INITIAL	8940.63	mg/kg	mg/kg																				
69782-90-7	PCB 157	SOLID - INITIAL	45853.03	mg/kg	mg/kg																				
70362-50-4	PCB 81	SOLID - INITIAL	8940.63	mg/kg	mg/kg																				
74472-37-0	PCB 114	SOLID - INITIAL	8940.63	mg/kg	mg/kg																				
100-02-7	4-Nitrophenol	SOLID	0.04	mg/kg	ug/kg	<100				<100		<200			<500				<500	<100	<1000	<100		<100	<100
100-41-4	Ethylbenzene	SOLID	0.53	mg/kg	ug/kg	748.0	<4	<4		<4		<4	<4		<4	<4			29.9	<4	<40	<40	<4	<4	370.0
100-42-5	Styrene	SOLID	1.04	mg/kg	ug/kg	<10				<10		<10			<10				<10	<10	<100	<100		<10	<100
10061-01-5	cis 1,3-Dichloropropene	SOLID	#N/A	mg/kg	ug/kg	<10				<10		<10			<10				<10	<10	<100	<100		<10	<100
10061-02-6	trans 1,3-Dichloropropene	SOLID	#N/A	mg/kg	ug/kg	<10				<10		<10			<10				<10	<10	<100	<100		<10	<100
103-65-1	Propylbenzene	SOLID	0.28	mg/kg	ug/kg	78.4				<10		<10			<10				21.9	<10	<100	<100		<10	<100
104-51-8	n-Butylbenzene	SOLID	1.39	mg/kg	ug/kg	<11				<11		<11			<11				<11	<11	<110	<110		<11	<110
105-67-9	2,4-Dimethylphenol	SOLID	1.18	mg/kg	ug/kg	<100				<100		<200			<500				<500	<100	<1000	<100		<100	<100
106-43-4	4-Chlorotoluene	SOLID	#N/A	mg/kg	ug/kg	<10				<10		<10			<10				<10	<10	<100	<100		<10	<100
106-44-5	4-Methylphenol	SOLID	0.53	mg/kg	ug/kg	<100				<100		<200			<500				<500	<100	<1000	<100		<100	<100
106-46-7	1,4-Dichlorobenzene	SOLID	48.01	mg/kg	ug/kg	<100				<100		<200			<5				<5	<100	<1000	<100		<100	<100
106-93-4	1,2-Dibromoethane	SOLID	#N/A	mg/kg	ug/kg	<10				<10		<10			<10				<10	<10	<100	<100		<10	<100
107-06-2	1,2-Dichloroethane	SOLID	#N/A	mg/kg	ug/kg	<5				<5		<5			<5				<5	<5	<50	<50		<5	<50
108-67-8	1,3,5-Trimethylbenzene	SOLID	0.15	mg/kg	ug/kg	646.0				<8		<8			18.2				231.0	<8	<80	<80		<8	<80
108-86-1	Bromobenzene	SOLID	#N/A	mg/kg	ug/kg	<10				<10		<10			<10				<10	<10	<100	<100		<10	<100
108-88-3	Toluene	SOLID	0.88	mg/kg	ug/kg	<7	<7	<7		<7		<7	<7		<7	<7			<7	<7	<70	<70	<7	<7	<70
108-90-7	Chlorobenzene	SOLID	4.46	mg/kg	ug/kg	<5				<5		<5			<5				<5	<5	<50	<50		<5	<50
108-95-2	Phenol	SOLID	0.04	mg/kg	ug/kg	1340.0				<100		<200			<500				<500	<100	<1000	<100		<100	<100
111-44-4	Bis(2-chloroethyl)ether	SOLID	#N/A	mg/kg	ug/kg	<100				<100		<200			<500				<500	<100	<1000	<100		<100	<100
111-91-1	Bis(2-chloroethoxy)methane	SOLID	0.01	mg/kg	ug/kg	<100				<100		<200			<500				<500	<100	<1000	<100		<100	<100
117-81-7	Bis(2-ethylhexyl)phthalate	SOLID	18472.17	mg/kg	ug/kg	11500.0				748.0		475.0			<500				1680.0	<100	<1000	420.0		<100	1220.0
117-84-0	n-Dioctylphthalate	SOLID	146035.35	mg/kg	ug/kg	<100				<100		<200			<500				<500	<100	<1000	<100		<100	<100
118-74-1	Hexachlorobenzene	SOLID	0.23	mg/kg	ug/kg	<100				<100		<200			<500				<500	<100	<1000	<100		<100	<100
120-82-1	1,2,4-Trichlorobenzene	SOLID	1.81	mg/kg	ug/kg	<100				<100		<20			<20				<20	<100	<1000	<100		<100	<100
120-83-2	2,4-Dichlorophenol	SOLID	0.28	mg/kg	ug/kg	<100				<100		<200			<500				<500	<100	<1000	<100		<100	<100
121-14-2	2,4-Dinitrotoluene	SOLID	0.00	mg/kg	ug/kg	<100				<100		<200			<500				<500	<100	<1000	<100		<100	<100
124-48-1	Dibromochloromethane	SOLID	#N/A	mg/kg	ug/kg	<10				<10		<10			<10				<10	<10	<100	<100		<10	<100
127-18-4	Tetrachloroethene	SOLID	1.46	mg/kg	ug/kg	<5				<5		<5			<5				<5	<5	<50	<50		<5	<50
131-11-3	Dimethyl phthalate	SOLID	#N/A	mg/kg	ug/kg	<100				<100		<200			<500				<500	<100	<1000	<100		<100	<100
132-64-9	Dibenzofuran	SOLID	0.49	mg/kg	ug/kg	409.0				<100		<200			2380.0				11700.0	<100	6170.0	378.0		221.0	<100
135-98-8	sec-Butylbenzene	SOLID	1.39	mg/kg	ug/kg	157.0				<10		<10			<10				18.8	<10	<100	<100		<10	<100
142-28-9	1,3-Dichloropropane	SOLID	#N/A	mg/kg	ug/kg	<7				<7		<7			<7				<7	<7	<70	<70		<7	<70
156-59-2	cis 1,2-Dichloroethene	SOLID	0.31	mg/kg	ug/kg	<6				<6		<6			<6				<6	<6	<60	<60		<6	<60
156-60-5	trans 1,2-Dichloroethene	SOLID	#N/A	mg/kg	ug/kg	<10				<10		<10			<10				<10	<10	<100	<100		<10	<100
198-55-0	Perylene	SOLID	206.28	mg/kg	ug/kg																				
39638-32-9	Bis(2-chloroisopropyl)ether	SOLID	#N/A	mg/kg	ug/kg	<100				<100		<200			<500				<500	<100	<1000	<100		<100	<100
541-73-1	1,3-Dichlorobenzene	SOLID	145.60	mg/kg	ug/kg	<100				<100		<200			<500				<500	<100	<1000	<100		<100	<100
56-23-5	Carbon Tetrachloride	SOLID	#N/A	mg/kg	ug/kg	<10				<10		<10			<10				<10	<10	<100	<100		<10	<100
563-58-6	1,1-Dichloropropene	SOLID	0.41	mg/kg	ug/kg	<10				<10		<10			<10				<10	<10	<100	<100		<10	<100
594-20-7	2,2-Dichloropropane	SOLID	#N/A	mg/kg	ug/kg	<10				<10		<10			<10				<10	<10	<100	<100		<10	<100
59-50-7	4-Chloro-3-methylphenol	SOLID	2.93	mg/kg	ug/kg	<100				<100		<200			<500				<500	<100	<1000	<100		<100	<100
606-20-2	2,6-Dinitrotoluene	SOLID	1.48	mg/kg	ug/kg	<100				<100		<200			<500				<500	<100	<1000	<100		<	

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Hole Ref	AEC18-LF-TP209	AEC18-LF-TP210	AEC18-LF-TP210	AEC18-LF-TP211	AEC18-LF-TP211	AEC18-LF-TP212	AEC18-LF-TP212	AEC18-LF-TP212	AEC18-LF-TP212	AEC18-LF-TP213	AEC18-LF-TP213	AEC18-LF-TP213	AEC18-LF-TP213A	AEC18-LF-TP213A	AEC18-LF-TP213A	AEC18-LF-TP214	AEC18-LF-TP214	AEC18-LF-TP214	AEC18-LF-TP214	AEC18-LF-TP215	AEC18-LF-TP215	AEC18-LF-TP215
Sample Top	4.20	0.80	3.00	0.50	3.00	0.50	2.00	4.00	1.50	2.50	3.50	1.50	2.50	3.50	0.50	1.50	2.50	0.80	3.10	4.10		
Lookup soil	MADE GROUND	MG-LF	MADE GROUND	MADE GROUND	MG-LF	MADE GROUND	MADE GROUND	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MADE GROUND	MG-LF	MG-LF	MG-LF	MG-LF	MADE GROUND	MG-LF	MG-LF		
Sample Ref	5	2	4	2	7	2	4	6	3	5	6	2	3	4	1	2	3	2	4	5		

Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	AEC18-LF-TP209	AEC18-LF-TP210	AEC18-LF-TP210	AEC18-LF-TP211	AEC18-LF-TP211	AEC18-LF-TP212	AEC18-LF-TP212	AEC18-LF-TP212	AEC18-LF-TP213	AEC18-LF-TP213	AEC18-LF-TP213	AEC18-LF-TP213A	AEC18-LF-TP213A	AEC18-LF-TP213A	AEC18-LF-TP214	AEC18-LF-TP214	AEC18-LF-TP214	AEC18-LF-TP214	AEC18-LF-TP215	AEC18-LF-TP215	AEC18-LF-TP215
1610-18-0	Prometon SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																					
16118-49-3	Carbetamide	SOLID	#N/A	mg/kg	mg/kg																					
1689-83-4	Ioxynil	SOLID	#N/A	mg/kg	mg/kg																					
1689-84-5	Bromoxynil	SOLID	#N/A	mg/kg	mg/kg																					
1702-17-6	Clopyralid	SOLID	#N/A	mg/kg	mg/kg																					
1746-81-2	Monolinuron	SOLID	#N/A	mg/kg	mg/kg																					
18691-97-9	Methabenzthiazuron	SOLID	#N/A	mg/kg	mg/kg																					
1897-45-6	Chlorothalonil	SOLID	#N/A	mg/kg	ug/kg																					
1912-24-9	Atrazine SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																					
1918-00-9	Dicamba	SOLID	#N/A	mg/kg	mg/kg																					
6607	Picloram	SOLID	#N/A	mg/kg	mg/kg																					
1967-16-4	Chlorbufam	SOLID	#N/A	mg/kg	mg/kg																					
1982-47-4	Chloroxuron	SOLID	#N/A	mg/kg	mg/kg																					
19937-59-8	Metoxuron	SOLID	#N/A	mg/kg	mg/kg																					
2132-70-9	p,p-Methoxychlor	SOLID	#N/A	mg/kg	ug/kg																					
2274-67-1	Chlorpyrifos-methyl	SOLID	#N/A	mg/kg	ug/kg																					
2303-17-5	Triallate	SOLID	#N/A	mg/kg	ug/kg																					
2310-17-0	Phosalone	SOLID	#N/A	mg/kg	ug/kg																					
23103-98-2	Pirimicarb	SOLID	#N/A	mg/kg	mg/kg																					
24017-47-8	Triazophos	SOLID	#N/A	mg/kg	ug/kg																					
25057-89-0	Bentazone	SOLID	#N/A	mg/kg	mg/kg																					
2642-71-9	Azinphos-ethyl	SOLID	#N/A	mg/kg	ug/kg																					
2921-88-2	Chlorpyrifos	SOLID	#N/A	mg/kg	ug/kg																					
29232-93-7	Pirimiphos Methyl	SOLID	#N/A	mg/kg	ug/kg																					
297-78-9	Telodrin	SOLID	#N/A	mg/kg	ug/kg																					
298-00-0	Methyl Parathion	SOLID	#N/A	mg/kg	ug/kg																					
298-01-1	Mevinphos	SOLID	#N/A	mg/kg	ug/kg																					
298-04-4	Disulfoton SUBCON OCP Alcontrol	SOLID	#N/A	mg/kg	ug/kg																					
29973-13-5	Ethiofencarb	SOLID	#N/A	mg/kg	mg/kg																					
30667-99-3	o,p-Methoxychlor	SOLID	#N/A	mg/kg	ug/kg																					
309-00-2	Aldrin SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																					
31218-83-4	Propetamphos	SOLID	#N/A	mg/kg	ug/kg																					
314-40-9	Bromacil	SOLID	#N/A	mg/kg	mg/kg																					
319-84-6	alpha-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																					
	beta-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																					
319-85-7		SOLID	#N/A	mg/kg	ug/kg																					
330-54-1	Diuron SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																					
330-55-2	Linuron	SOLID	#N/A	mg/kg	mg/kg																					
33213-65-9	Endosulphan II	SOLID	#N/A	mg/kg	ug/kg																					
333-41-5	Diazinon	SOLID	#N/A	mg/kg	ug/kg																					
34123-59-6	Isoproturon	SOLID	#N/A	mg/kg	mg/kg																					
34205-21-5	Dimefuron	SOLID	#N/A	mg/kg	mg/kg																					
3424-82-6	o,p-DDE	SOLID	#N/A	mg/kg	ug/kg																					
35367-38-5	Diflufenzuron	SOLID	#N/A	mg/kg	mg/kg																					
698836	Benazolin	SOLID	#N/A	mg/kg	mg/kg																					
38260-54-7	Etrimephos	SOLID	#N/A	mg/kg	ug/kg																					
40483-25-2	Diclofop	SOLID	#N/A	mg/kg	mg/kg																					
40487-42-1	Pendimethalin	SOLID	#N/A	mg/kg	ug/kg																					
43121-43-3	Triadimefon	SOLID	#N/A	mg/kg	ug/kg																					
465-73-6	Isodrin	SOLID	#N/A	mg/kg	ug/kg																					
470-90-6	Chlorfenvinphos	SOLID	#N/A	mg/kg	ug/kg																					
50-29-3	p,p-DDT SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																					
50-31-7	2,3,6-TBA	SOLID	#N/A	mg/kg	mg/kg																					
5103-71-9	cis-Chlordane SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																					
5103-74-2	trans-Chlordane SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																					
51630-58-1	Fenvalerate SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																					
52315-07-8	Cypermethrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																					
52645-53-1	Permethrin SUBCON RPS MH Pyrethroids	SOLID	#N/A	mg/kg	mg/kg																					
52756-22-6	Flamprop-isopropyl	SOLID	#N/A	mg/kg	mg/kg																					
52918-63-5	Deltamethrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																					
53-19-0	o,p-TDE (DDD)	SOLID	#N/A	mg/kg	ug/kg																					
55335-06-3	Triclopyr	SOLID	#N/A	mg/kg	mg/kg																					
55-38-9	Fenthion	SOLID	#N/A	mg/kg	ug/kg																					
563-12-2	Ethion	SOLID	#N/A	mg/kg	ug/kg																					
56-38-2	Parathion (Ethyl Parathion)	SOLID	#N/A	mg/kg	ug/kg																					
58667-63-3	Fiamprop	SOLID	#N/A	mg/kg	mg/kg																					

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Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	AEC18-LF-TP209	AEC18-LF-TP210	AEC18-LF-TP210	AEC18-LF-TP211	AEC18-LF-TP211	AEC18-LF-TP212	AEC18-LF-TP212	AEC18-LF-TP212	AEC18-LF-TP213	AEC18-LF-TP213	AEC18-LF-TP213	AEC18-LF-TP213A	AEC18-LF-TP213A	AEC18-LF-TP213A	AEC18-LF-TP214	AEC18-LF-TP214	AEC18-LF-TP214	AEC18-LF-TP215	AEC18-LF-TP215	AEC18-LF-TP215	
						4.20	0.80	3.00	0.50	3.00	0.50	2.00	4.00	1.50	2.50	3.50	1.50	2.50	3.50	0.50	1.50	2.50	3.50	0.50	1.50	2.50
Sample Top	Lookup soil	Sample Ref	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	
31508-00-6	PCB-118 2,3',4,4',5 - Pentachlorobiphenyl	SOLID - INITIAL	694.02	mg/kg	ng/g																				3.6	
32598-13-3	PCB 77	SOLID - INITIAL	6185.41	mg/kg	ng/g																					0.7
32598-14-4	PCB 105	SOLID - INITIAL	8940.63	mg/kg	ng/g																					1.5
3268-87-9	Octachlorodibenzo-p-dioxin	SOLID - INITIAL	91923.81	mg/kg	ng/g																					1.3
32774-16-6	PCB 169	SOLID - INITIAL	37270.75	mg/kg	ng/g																					<0.011
3380-34-5	Triclosan	SOLID - INITIAL	0.33	mg/kg	mg/kg																					<0.01
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-P-Dioxin	SOLID - INITIAL	91923.81	mg/kg	ng/g																					0.2
38380-08-4	PCB-156 2,3,3,4,4,5 - Hexachlorobiphenyl	SOLID - INITIAL	3172.26	mg/kg	ng/g																					0.7
39001-02-0	Octachlorodibenzofuran	SOLID - INITIAL	46180.43	mg/kg	ng/g																					0.1
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-P-Dioxin	SOLID - INITIAL	36595.53	mg/kg	ng/g																					<0.0014
39635-31-9	PCB 189	SOLID - INITIAL	270002.64	mg/kg	ng/g																					0.1
40321-76-4	1,2,3,7,8-Pentachlorodibenzo-P-Dioxin	SOLID - INITIAL	#N/A	mg/kg	ng/g																					<0.00076
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	SOLID - INITIAL	393.06	mg/kg	ng/g																					0.0
52645-53-1	Permethrin	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					<1000
52663-72-6	PCB 167	SOLID - INITIAL	45853.03	mg/kg	ng/g																					0.3
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	SOLID - INITIAL	9648.46	mg/kg	ng/g																					0.0
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	SOLID - INITIAL	964.85	mg/kg	ng/g																					0.0
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	SOLID - INITIAL	715.25	mg/kg	ng/g																					0.0
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	SOLID - INITIAL	715.25	mg/kg	ng/g																					0.0
57465-28-8	PCB 126	SOLID - INITIAL	8940.63	mg/kg	ng/g																					<0.013
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-P-Dioxin	SOLID - INITIAL	91923.81	mg/kg	ng/g																					0.0
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofura	SOLID - INITIAL	715.25	mg/kg	ng/g																					0.0
62476-59-9	Acifluorfen	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					<0.01
65510-44-3	PCB 123	SOLID - INITIAL	8940.63	mg/kg	ng/g																					0.1
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	SOLID - INITIAL	715.25	mg/kg	ng/g																					0.1
69782-90-7	PCB 157	SOLID - INITIAL	45853.03	mg/kg	ng/g																					0.1
70362-50-4	PCB 81	SOLID - INITIAL	8940.63	mg/kg	ng/g																					<0.07
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	SOLID - INITIAL	715.25	mg/kg	ng/g																					0.0
7085-19-0	mecoprop	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					<0.01
72-43-5	Methoxychlor	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					<1000
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	SOLID - INITIAL	#N/A	mg/kg	ng/g																					<0.0032
74472-37-0	PCB 114	SOLID - INITIAL	8940.63	mg/kg	ng/g																					0.1
88-85-7	Dinoseb	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					<0.01
892-20-6	Triphenyltin	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					<0.05
P1330	BTEX	SOLID - INITIAL	0.00	mg/kg	ug/kg	3530.0		<40		<40			<40		<40			137.0	<40	<400	<400	<40	<40	<40	<400	
P1354	TPH Aromatic >C6-C7	SOLID - INITIAL	0.05	mg/kg	ug/kg	<10		<10		<10			<10		<10			16.7	<10	<10	<10	<10	<10	<10	<10	
P1355	TPH Aromatics > C7-C8	SOLID - INITIAL	#N/A	mg/kg	ug/kg	<10		<10		<10			<10		<10			<10	<10	<10	<10	<10	<10	<10	<10	
P1356	Aromatics >C8-10	SOLID - INITIAL	#N/A	mg/kg	ug/kg	4150.0		77.4	34.8	714.0			209.0		1540.0	<10	114.0	511.0	5130.0	61200.0	5130.0	6920.0	86.1	565.0		
P1357	Aromatics >C10-12	SOLID - INITIAL	#N/A	mg/kg	ug/kg	2860.0		58.1	23.2	785.0			407.0		3220.0	<10	143.0	343.0	<10	61.5	545.0					
P1358	Aromatics >C12-16	SOLID - INITIAL	#N/A	mg/kg	ug/kg	241000.0		<100	5560.0	17000.0			8360.0		66700.0	<100	28900.0	9530.0	<100	1640.0	4910.0					
P1359	Aromatics >C16-21	SOLID - INITIAL	#N/A	mg/kg	ug/kg	502000.0		1080.0	73000.0	67000.0			60300.0		126000.0	534.0	202000.0	61200.0	5130.0	6920.0	29000.0					
P1360	Aromatics >C21-35	SOLID - INITIAL	#N/A	mg/kg	ug/kg	2060000.0		8930.0	531000.0	140000.0			214000.0		429000.0	7370.0	440000.0	217000.0	40600.0	23300.0	154000.0					
P1362	Aromatics >C35-44	SOLID - INITIAL	#N/A	mg/kg	ug/kg	279000.0		3740.0	106000.0	26100.0			105000.0		163000.0	5770.0	162000.0	82100.0	14900.0	10400.0	35200.0					
P1407	Aliphatics >C5-6	SOLID - INITIAL	#N/A	mg/kg	ug/kg	139.0		12.9	31.8	12.9			18.9		36.9	<10	34.8	56.0	<10	<10	12.0					
P1408	Aliphatics >C6-8	SOLID - INITIAL	#N/A	mg/kg	ug/kg	1530.0		34.8	36.1	180.0			84.4		212.0	<10	74.4	312.0	<10	92.3	155.0					
P1409	Aliphatics >C8-10	SOLID - INITIAL	#N/A	mg/kg	ug/kg	3200.0		110.0	36.1	1070.0			292.0		2300.0	<10	140.0	664.0	<10	128.0	456.0					
P1410	Aliphatics >C10-12	SOLID - INITIAL	#N/A	mg/kg	ug/kg	4300.0		86.4	34.8	1180.0			611.0		4830.0	<10	214.0	515.0	<10	92.3	817.0					
P1411	Aliphatics >C12-16	SOLID - INITIAL	#N/A	mg/kg	ug/kg	279000.0		<100	22200.0	6860.0			214.0		28800.0	<100	6880.0	8200.0	<100	2770.0	12000.0					
P1412	Aliphatics >C16-21	SOLID - INITIAL	#N/A	mg/kg	ug/kg	1180000.0		<100	290000.0	12600.0			24900.0		62800.0	<100	40100.0	55800.0	2860.0	7470.0	64900.0					
P1413	Aliphatics >C21-35	SOLID - INITIAL	#N/A	mg/kg	ug/kg	5700000.0		3700.0	1320000.0	116000.0			258000.0		819000.0	6080.0	211000.0	257000.0	55900.0	23200.0	439000.0					
P1415	Aliphatics >C35-44	SOLID - INITIAL	#N/A	mg/kg	ug/kg	543000.0		<100	212000.0	18800.0			113000.0		228000.0	<100	71300.0	60200.0	6170.0	6040.0	58700.0					
15541-45-4	Bromate	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
16065-83-1	Trivalent Chromium	SOLID - INITIAL	#N/A	mg/kg	mg/kg				<0.3																<0.3	
16887-00-6	Chloride	SOLID - INITIAL	268.18	mg/kg	mg/kg				43.0																<20	
16984-48-8	Fluoride	SOLID - INITIAL	0.41	mg/kg	mg/kg				6.6																5.2	
18496-25-8	Sulphide	SOLID - INITIAL	#VALUE!	mg/kg	mg/kg																					

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					Hole Ref	AEC18-LF-TP209	AEC18-LF-TP210	AEC18-LF-TP210	AEC18-LF-TP211	AEC18-LF-TP211	AEC18-LF-TP212	AEC18-LF-TP212	AEC18-LF-TP212	AEC18-LF-TP213	AEC18-LF-TP213	AEC18-LF-TP213	AEC18-LF-TP213A	AEC18-LF-TP213A	AEC18-LF-TP213A	AEC18-LF-TP214	AEC18-LF-TP214	AEC18-LF-TP214	AEC18-LF-TP215	AEC18-LF-TP215	AEC18-LF-TP215
					Sample Top	4.20	0.80	3.00	0.50	3.00	0.50	2.00	4.00	1.50	2.50	3.50	1.50	2.50	3.50	0.50	1.50	2.50	0.80	3.10	4.10
					Lookup soil	MADE GROUND	MG-LF	MADE GROUND	MADE GROUND	MG-LF	MADE GROUND	MADE GROUND	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MADE GROUND	MG-LF	MG-LF	MG-LF	MG-LF	MADE GROUND	MG-LF	MG-LF
					Sample Ref	5	2	4	2	7	2	4	6	3	5	6	2	3	4	1	2	3	2	4	5
Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
103-33-3	Azobenzene	SOLID - INITIAL	0.38	mg/kg	ug/kg	<100				<100		<200				<500			<500	<100	<1000	<100		<100	<100
106-47-8	4-Chloroaniline	SOLID - INITIAL	0.01	mg/kg	ug/kg	<100				<100		<200				<500			<500	<100	<1000	<100		<100	<100
700-57-23	4-Chlorophenylphenylether	SOLID - INITIAL	#N/A	mg/kg	ug/kg	<100				<100		<200				<500			<500	<100	<1000	<100		<100	<100
88-74-4	2-Nitroaniline	SOLID - INITIAL	0.01	mg/kg	ug/kg	<100				<100		<200				<500			<500	<100	<1000	<100		<100	<100
99-09-2	3-Nitroaniline	SOLID - INITIAL	#N/A	mg/kg	ug/kg	<100				<100		<200				<500			<500	<100	<1000	<100		<100	<100
994-05-8	Tertiary Amyl Methyl Ether	SOLID - INITIAL	#N/A	mg/kg	ug/kg	<10				<10		<10				<10			<10	<10	<100	<100		<10	<100
1336-36-6	PCB Total (WAC only)	SOLID	#N/A	mg/kg	mg/kg																				
P1330	BTEX (total) WAC	SOLID	#N/A	mg/kg	mg/kg																				

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Hole Ref	AEC18-LF-TP216	AEC18-LF-TP216	AEC18-LF-TP216	AEC18-LF-TP217	AEC18-LF-TP217	AEC18-LF-TP218	AEC18-LF-TP218	AEC18-LF-TP219	AEC18-LF-TP219	AEC18-LF-TP220	AEC18-LF-TP220	AEC18-LF-TP220	AEC18-LF-TP221	AEC18-LF-TP221	AEC18-LF-TP221	AEC18-LF-TP222	AEC18-LF-TP222	AEC18-LF-TP223	AEC18-LF-TP223	AEC18-LF-TP223	
Sample Top	1.80	2.80	4.50	1.50	2.50	0.50	3.50	1.50	4.50	0.50	2.50	4.50	0.20	1.20	3.50	1.00	2.00	0.50	3.50	4.50	
Lookup soil	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MADE GROUND	MG-LF	MADE GROUND	MG-LF	MADE GROUND	MG-LF	MG-LF	MADE GROUND	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	
Sample Ref	5	6	8	2	3	1	4	2	6	1	3	5	1	3	5	2	3	1	4	5	
Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
1610-18-0	Prometon SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																
16118-49-3	Carbetamide	SOLID	#N/A	mg/kg	mg/kg																
1689-83-4	loxynil	SOLID	#N/A	mg/kg	mg/kg																
1689-84-5	Bromoxynil	SOLID	#N/A	mg/kg	mg/kg																
1702-17-6	Clopyralid	SOLID	#N/A	mg/kg	mg/kg																
1746-81-2	Monolinuron	SOLID	#N/A	mg/kg	mg/kg																
18691-97-9	Methabenzthiazuron	SOLID	#N/A	mg/kg	mg/kg																
1897-45-6	Chlorothalonil	SOLID	#N/A	mg/kg	ug/kg																
1912-24-9	Atrazine SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																
1918-00-9	Dicamba	SOLID	#N/A	mg/kg	mg/kg																
6607	Picloram	SOLID	#N/A	mg/kg	mg/kg																
1967-16-4	Chlorbufam	SOLID	#N/A	mg/kg	mg/kg																
1982-47-4	Chloroxuron	SOLID	#N/A	mg/kg	mg/kg																
19937-59-8	Metoxuron	SOLID	#N/A	mg/kg	mg/kg																
2132-70-9	p,p-Methoxychlor	SOLID	#N/A	mg/kg	ug/kg																
2274-67-1	Chlorpyrifos-methyl	SOLID	#N/A	mg/kg	ug/kg																
2303-17-5	Triallate	SOLID	#N/A	mg/kg	ug/kg																
2310-17-0	Phosalone	SOLID	#N/A	mg/kg	ug/kg																
23103-98-2	Pirimicarb	SOLID	#N/A	mg/kg	mg/kg																
24017-47-8	Triazophos	SOLID	#N/A	mg/kg	ug/kg																
25057-89-0	Bentazone	SOLID	#N/A	mg/kg	mg/kg																
2642-71-9	Azinphos-ethyl	SOLID	#N/A	mg/kg	ug/kg																
2921-88-2	Chlorpyrifos	SOLID	#N/A	mg/kg	ug/kg																
29232-93-7	Pirimiphos Methyl	SOLID	#N/A	mg/kg	ug/kg																
297-78-9	Telodrin	SOLID	#N/A	mg/kg	ug/kg																
298-00-0	Methyl Parathion	SOLID	#N/A	mg/kg	ug/kg																
298-01-1	Mevinphos	SOLID	#N/A	mg/kg	ug/kg																
298-04-4	Disulfoton SUBCON OCP Alcontrol	SOLID	#N/A	mg/kg	ug/kg																
29973-13-5	Ethiofencarb	SOLID	#N/A	mg/kg	mg/kg																
30667-99-3	o,p-Methoxychlor	SOLID	#N/A	mg/kg	ug/kg																
309-00-2	Aldrin SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																
31218-83-4	Propetamphos	SOLID	#N/A	mg/kg	ug/kg																
314-40-9	Bromacil	SOLID	#N/A	mg/kg	mg/kg																
319-84-6	alpha-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																
319-85-7	beta-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																
330-54-1	Diuron SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																
330-55-2	Linuron	SOLID	#N/A	mg/kg	mg/kg																
33213-65-9	Endosulphan II	SOLID	#N/A	mg/kg	ug/kg																
333-41-5	Diazinon	SOLID	#N/A	mg/kg	ug/kg																
34123-59-6	Isoproturon	SOLID	#N/A	mg/kg	mg/kg																
34205-21-5	Dimefuron	SOLID	#N/A	mg/kg	mg/kg																
3424-82-6	o,p-DDE	SOLID	#N/A	mg/kg	ug/kg																
35367-38-5	Diflubenzuron	SOLID	#N/A	mg/kg	mg/kg																
698836	Benazolin	SOLID	#N/A	mg/kg	mg/kg																
38260-54-7	Etrimpfos	SOLID	#N/A	mg/kg	ug/kg																
40483-25-2	Diclofop	SOLID	#N/A	mg/kg	mg/kg																
40487-42-1	Pendimethalin	SOLID	#N/A	mg/kg	ug/kg																
43121-43-3	Triadimefon	SOLID	#N/A	mg/kg	ug/kg																
465-73-6	Isodrin	SOLID	#N/A	mg/kg	ug/kg																
470-90-6	Chlorfenvinphos	SOLID	#N/A	mg/kg	ug/kg																
50-29-3	p,p-DDT SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																
50-31-7	2,3,6-TBA	SOLID	#N/A	mg/kg	mg/kg																
5103-71-9	cis-Chlordane SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																
5103-74-2	trans-Chlordane SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																
51630-58-1	Fenvalerate SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																
52315-07-8	Cypermethrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																
52645-53-1	Permethrin SUBCON RPS MH Pyrethroids	SOLID	#N/A	mg/kg	mg/kg																
52756-22-6	Flamprop-isopropyl	SOLID	#N/A	mg/kg	mg/kg																
52918-63-5	Deltamethrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																
53-19-0	o,p-TDE (DDD)	SOLID	#N/A	mg/kg	ug/kg																
55335-06-3	Triclopyr	SOLID	#N/A	mg/kg	mg/kg																
55-38-9	Fenthion	SOLID	#N/A	mg/kg	ug/kg																
563-12-2	Ethion	SOLID	#N/A	mg/kg	ug/kg																
56-38-2	Parathion (Ethyl Parathion)	SOLID	#N/A	mg/kg	ug/kg																
58667-63-3	Fiamprop	SOLID	#N/A	mg/kg	mg/kg																

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Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	AEC18-LF-TP216	AEC18-LF-TP216	AEC18-LF-TP216	AEC18-LF-TP217	AEC18-LF-TP217	AEC18-LF-TP218	AEC18-LF-TP218	AEC18-LF-TP219	AEC18-LF-TP219	AEC18-LF-TP220	AEC18-LF-TP220	AEC18-LF-TP220	AEC18-LF-TP221	AEC18-LF-TP221	AEC18-LF-TP221	AEC18-LF-TP222	AEC18-LF-TP222	AEC18-LF-TP223	AEC18-LF-TP223	AEC18-LF-TP223	
						ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
58-89-9	gamma-Hexachlorocyclohexane (HCH / Lindane)	SOLID	#N/A	mg/kg	ug/kg																					
5915-41-3	Terbutylazine SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																					
60-51-5	Dimethoate	SOLID	#N/A	mg/kg	ug/kg																					
60-57-1	Dieldrin SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																					
61949-76-6	Permethrin I (cis) SUBCON Alcontrol OCP	SOLID	#N/A	mg/kg	ug/kg																					
61949-77-7	Permethrin II (trans) SUBCON Alcontrol OCP	SOLID	#N/A	mg/kg	ug/kg																					
62-73-7	Dichlorvos	SOLID	#N/A	mg/kg	ug/kg																					
639-58-7	Triphenyltin SUBCON I2	SOLID	#N/A	mg/kg	ug/kg																					
66063-05-6	Pencycuron	SOLID	#N/A	mg/kg	mg/kg																					
68085-85-8	Cyhalothrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																					
683-18-1	Dibutyltin Subcon I2	SOLID	#N/A	mg/kg	ug/kg																					
68359-37-5	Cyfluthrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																					
72-20-8	Endrin SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																					
72-54-8	p,p-TDE (DDD)	SOLID	#N/A	mg/kg	ug/kg																					
72-55-9	p,p-DDE	SOLID	#N/A	mg/kg	ug/kg																					
7287-19-6	Prometryn SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																					
76-44-8	Heptachlor SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																					
786-19-6	Carbophenothion	SOLID	#N/A	mg/kg	ug/kg																					
789-02-6	o,p-DDT SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																					
81406-37-3	Fluoroxypyr	SOLID	#N/A	mg/kg	mg/kg																					
82-68-8	Quintozene; (PCNB)	SOLID	#N/A	mg/kg	ug/kg																					
834-12-8	Ametryn SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																					
86-50-0	Azinphos-methyl	SOLID	#N/A	mg/kg	ug/kg																					
886-50-0	Terbutryn SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																					
93-65-2	MCP; (Mecoprop)	SOLID	#N/A	mg/kg	mg/kg																					
93-72-1	2,4,5-TP; (Fenoprop); (Silvex)	SOLID	#N/A	mg/kg	mg/kg																					
93-76-5	2,4,5-T	SOLID	#N/A	mg/kg	mg/kg																					
94-74-6	MCPA	SOLID	#N/A	mg/kg	mg/kg																					
94-75-7	2,4-D	SOLID	#N/A	mg/kg	mg/kg																					
94-81-5	MCPB	SOLID	#N/A	mg/kg	mg/kg																					
94-82-6	2,4-DB	SOLID	#N/A	mg/kg	mg/kg																					
959-98-8	Endosulphan I	SOLID	#N/A	mg/kg	ug/kg																					
P1362	TPH Aromatic >C35-C44	SOLID	657.18	mg/kg	mg/kg																					
P1415	TPH Aliphatic >C35-C44	SOLID	6927070.30	mg/kg	mg/kg																					
120-12-7	Anthracene	SOLID	0.16	mg/kg	ug/kg																					
129-00-0	Pyrene	SOLID	1.88	mg/kg	ug/kg																					
191-24-2	Benzo(g,h,i)perylene	SOLID	2.42	mg/kg	ug/kg																					
193-39-5	Indeno(1,2,3-cd)pyrene	SOLID	0.51	mg/kg	ug/kg																					
205-99-2	Benzo(b)fluoranthene	SOLID	0.61	mg/kg	ug/kg																					
206-44-0	Fluoranthene	SOLID	0.01	mg/kg	ug/kg																					
207-08-9	Benzo(k)fluoranthene	SOLID	0.86	mg/kg	ug/kg																					
208-96-8	Acenaphthylene	SOLID	1.01	mg/kg	ug/kg																					
218-01-9	Chrysene	SOLID	6.38	mg/kg	ug/kg																					
50-32-8	Benzo(a)pyrene	SOLID	0.07	mg/kg	ug/kg																					
53-70-3	Dibenzo(a,h)anthracene	SOLID	10.80	mg/kg	ug/kg																					
56-55-3	Benzo(a)anthracene	SOLID	4.50	mg/kg	ug/kg																					
83-32-9	Acenaphthene	SOLID	965.39	mg/kg	ug/kg																					
85-01-8	Phenanthrene	SOLID	3.35	mg/kg	ug/kg																					
86-73-7	Fluorene	SOLID	1.76	mg/kg	ug/kg																					
91-20-3	Napthalene	SOLID	0.08	mg/kg	ug/kg																					
302-04-5	Thiocyanate	SOLID	62.96	mg/kg	mg/kg																					
P1879	Xylenols	SOLID - INITIAL	2.39	mg/kg	mg/kg																					
P2098	Cresols	SOLID - INITIAL	0.54	mg/kg	mg/kg																					
12001-28-4	Asbestos: Crocidolite	SOLID - INITIAL	#N/A	mg/kg	No units																					
12001-29-5	Asbestos: Chrysotile	SOLID - INITIAL	#N/A	mg/kg	No units																					
12172-67-7	Asbestos: Actinolite	SOLID - INITIAL	#N/A	mg/kg	No units																					
12172-73-5	Asbestos: Amosite	SOLID - INITIAL	#N/A	mg/kg	No units																					
14567-73-8	Asbestos: Tremolite	SOLID - INITIAL	#N/A	mg/kg	No units																					
17068-78-9	Asbestos: Anthophyllite	SOLID - INITIAL	#N/A	mg/kg	No units																					
1002-53-5	Dibutyl Tin	SOLID - INITIAL	0.00	mg/kg	mg/kg																					
1461-22-9	Tributyltin	SOLID - INITIAL	0.00	mg/kg	mg/kg																					
1461-25-2	Tetrabutyl Tin	SOLID - INITIAL	0.00	mg/kg	mg/kg																					
1634-04-4	Methyl tert-butyl ether (MTBE)	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					
1746-01-6	2,3,7,8-Tetrachlorodibenzo-p-dioxin	SOLID - INITIAL	#N/A	mg/kg	ng/g																					
181274-15-7	Propoxycarbazone-sodium	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-P-Dioxin	SOLID - INITIAL	94064.99	mg/kg	ng/g																					
298-02-2	Phorate	SOLID - INITIAL	#N/A	mg/kg	ug/kg																					

Appendix G

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Hole Ref	AEC18-LF-TP216	AEC18-LF-TP216	AEC18-LF-TP216	AEC18-LF-TP217	AEC18-LF-TP217	AEC18-LF-TP218	AEC18-LF-TP218	AEC18-LF-TP219	AEC18-LF-TP219	AEC18-LF-TP220	AEC18-LF-TP220	AEC18-LF-TP220	AEC18-LF-TP221	AEC18-LF-TP221	AEC18-LF-TP221	AEC18-LF-TP222	AEC18-LF-TP222	AEC18-LF-TP223	AEC18-LF-TP223	AEC18-LF-TP223
Sample Top	1.80	2.80	4.50	1.50	2.50	0.50	3.50	1.50	4.50	0.50	2.50	4.50	0.20	1.20	3.50	1.00	2.00	0.50	3.50	4.50
Lookup soil	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MADE GROUND	MG-LF	MADE GROUND	MG-LF	MADE GROUND	MG-LF	MG-LF	MADE GROUND	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF
Sample Ref	5	6	8	2	3	1	4	2	6	1	3	5	1	3	5	2	3	1	4	5
Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES

Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	AEC18-LF-TP216	AEC18-LF-TP216	AEC18-LF-TP216	AEC18-LF-TP217	AEC18-LF-TP217	AEC18-LF-TP218	AEC18-LF-TP218	AEC18-LF-TP219	AEC18-LF-TP219	AEC18-LF-TP220	AEC18-LF-TP220	AEC18-LF-TP220	AEC18-LF-TP221	AEC18-LF-TP221	AEC18-LF-TP221	AEC18-LF-TP222	AEC18-LF-TP222	AEC18-LF-TP223	AEC18-LF-TP223	AEC18-LF-TP223
31508-00-6	PCB-118 2,3',4,4',5 - Pentachlorobiphenyl	SOLID - INITIAL	694.02	mg/kg	ng/g																<0.21	6.4			
32598-13-3	PCB 77	SOLID - INITIAL	6185.41	mg/kg	ng/g																	<0.08	1.2		
32598-14-4	PCB 105	SOLID - INITIAL	8940.63	mg/kg	ng/g																	<0.083	3.4		
3268-87-9	Octachlorodibenzo-p-dioxin	SOLID - INITIAL	91923.81	mg/kg	ng/g																	<0.076	2.2		
32774-16-6	PCB 169	SOLID - INITIAL	37270.75	mg/kg	ng/g																	<0.044	<0.029		
3380-34-5	Triclosan	SOLID - INITIAL	0.33	mg/kg	mg/kg																	<0.01	<0.01		
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-P-Dioxin	SOLID - INITIAL	91923.81	mg/kg	ng/g																	<0.0061	0.3		
38380-08-4	PCB-156 2,3,3,4,4,5 - Hexachlorobiphenyl	SOLID - INITIAL	3172.26	mg/kg	ng/g																	<0.038	1.0		
39001-02-0	Octachlorodibenzofuran	SOLID - INITIAL	46180.43	mg/kg	ng/g																	<0.019	0.3		
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-P-Dioxin	SOLID - INITIAL	36595.53	mg/kg	ng/g																	<0.0017	<0.0027		
39635-31-9	PCB 189	SOLID - INITIAL	270002.64	mg/kg	ng/g																	<0.064	0.1		
40321-76-4	1,2,3,7,8-Pentachlorodibenzo-P-Dioxin	SOLID - INITIAL	#N/A	mg/kg	ng/g																	<0.0019	<0.00061		
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	SOLID - INITIAL	393.06	mg/kg	ng/g																	<0.00063	<0.0024		
52645-53-1	Permethrin	SOLID - INITIAL	#N/A	mg/kg	ug/kg																	<50	<2000		
52663-72-6	PCB 167	SOLID - INITIAL	45853.03	mg/kg	ng/g																	<0.024	0.5		
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	SOLID - INITIAL	9648.46	mg/kg	ng/g																	<0.0073	0.0		
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	SOLID - INITIAL	964.85	mg/kg	ng/g																	<0.0011	<0.0029		
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	SOLID - INITIAL	715.25	mg/kg	ng/g																	<0.0011	<0.0029		
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	SOLID - INITIAL	715.25	mg/kg	ng/g																	<0.0016	0.0		
57465-28-8	PCB 126	SOLID - INITIAL	8940.63	mg/kg	ng/g																	<0.0078	<0.014		
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-P-Dioxin	SOLID - INITIAL	91923.81	mg/kg	ng/g																	<0.0017	0.0		
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofura	SOLID - INITIAL	715.25	mg/kg	ng/g																	<0.0016	0.0		
62476-59-9	Acifluorfen	SOLID - INITIAL	#N/A	mg/kg	mg/kg																	<0.01	<0.01		
65510-44-3	PCB 123	SOLID - INITIAL	8940.63	mg/kg	ng/g																	<0.0016	0.1		
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	SOLID - INITIAL	715.25	mg/kg	ng/g																	<0.015	0.2		
69782-90-7	PCB 157	SOLID - INITIAL	45853.03	mg/kg	ng/g																	<0.002	0.2		
70362-50-4	PCB 81	SOLID - INITIAL	8940.63	mg/kg	ng/g																	<0.0023	<0.0031		
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	SOLID - INITIAL	715.25	mg/kg	ng/g																	<0.0016	0.0		
7085-19-0	mecoprop	SOLID - INITIAL	#N/A	mg/kg	mg/kg																	<0.01	<0.01		
72-43-5	Methoxychlor	SOLID - INITIAL	#N/A	mg/kg	ug/kg																	<50	<2000		
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	SOLID - INITIAL	#N/A	mg/kg	ng/g																	<0.0016	<0.005		
74472-37-0	PCB 114	SOLID - INITIAL	8940.63	mg/kg	ng/g																	<0.0012	0.1		
88-85-7	Dinoseb	SOLID - INITIAL	#N/A	mg/kg	mg/kg																	<0.01	<0.01		
892-20-6	Triphenyltin	SOLID - INITIAL	#N/A	mg/kg	mg/kg																	<0.05	<0.05		
P1330	BTEX	SOLID - INITIAL	0.00	mg/kg	ug/kg	<40	50.0	<40				<40	<40		<400	<40		<40	<40		6590.0	<400	2530.0		
P1354	TPH Aromatic >C6-C7	SOLID - INITIAL	0.05	mg/kg	ug/kg	<10	<10	<10				<10	<10		<10	<10		<10	<10		14.3	<10	<10		
P1355	TPH Aromatics > C7-C8	SOLID - INITIAL	#N/A	mg/kg	ug/kg	<10	<10	<10				<10	<10		<10	<10		<10	<10		<10	<10	<10	29.5	
P1356	Aromatics >C8-10	SOLID - INITIAL	#N/A	mg/kg	ug/kg	67.3	366.0	306.0				181.0	75.2		4180.0	964.0		80.2	23.2		2610.0	1720.0	2260.0		
P1357	Aromatics >C10-12	SOLID - INITIAL	#N/A	mg/kg	ug/kg	41.3	174.0	256.0				160.0	60.4		3500.0	1150.0		70.8	20.0		419.0	657.0	430.0		
P1358	Aromatics >C12-16	SOLID - INITIAL	#N/A	mg/kg	ug/kg	<100	45700.0	14200.0				8440.0	1610.0		233000.0	41600.0		4300.0	5580.0		13500.0	22100.0	24800.0		
P1359	Aromatics >C16-21	SOLID - INITIAL	#N/A	mg/kg	ug/kg	4590.0	328000.0	89700.0				60200.0	18400.0		332000.0	180000.0		29100.0	55500.0		196000.0	105000.0	89700.0		
P1360	Aromatics >C21-35	SOLID - INITIAL	#N/A	mg/kg	ug/kg	26800.0	1850000.0	311000.0				197000.0	65500.0		1040000.0	325000.0		843000.0	378000.0		1350000.0	343000.0	524000.0		
P1362	Aromatics >C35-44	SOLID - INITIAL	#N/A	mg/kg	ug/kg	2370.0	335000.0	54900.0				142000.0	22400.0		210000.0	59900.0		605000.0	192000.0		398000.0	117000.0	133000.0		
P1407	Aliphatics >C5-6	SOLID - INITIAL	#N/A	mg/kg	ug/kg	<10	13.7	12.5				19.8	<10		11.6	15.3		<10	<10		71.4	29.8	44.7		
P1408	Aliphatics >C6-8	SOLID - INITIAL	#N/A	mg/kg	ug/kg	29.5	154.0	98.8				74.4	27.4		266.0	241.0		31.9	13.7		2270.0	751.0	406.0		
P1409	Aliphatics >C8-10	SOLID - INITIAL	#N/A	mg/kg	ug/kg	59.0	433.0	421.0				272.0	82.1		3990.0	1260.0		120.0	33.7		1790.0	1720.0	1070.0		
P1410	Aliphatics >C10-12	SOLID - INITIAL	#N/A	mg/kg	ug/kg	61.4	261.0	384.0				239.0	90.1		5240.0	1730.0		106.0	29.5		628.0	987.0	645.0		
P1411	Aliphatics >C12-16	SOLID - INITIAL	#N/A	mg/kg	ug/kg	484.0	193000.0	25900.0				3290.0	<100		219000.0	11700.0		4720.0	8380.0		37700.0	15800.0	85100.0		
P1412	Aliphatics >C16-21	SOLID - INITIAL	#N/A	mg/kg	ug/kg	9290.0	1370000.0	157000.0				13600.0	9850.0		253000.0	58100.0		34100.0	39900.0		335000.0	73000.0	262000.0		
P1413	Aliphatics >C21-35	SOLID - INITIAL	#N/A	mg/kg	ug/kg	74300.0	6770000.0	735000.0				113000.0	37900.0		2630000.0	360000.0		959000.0	251000.0		3220000.0	546000.0	2010000.0		
P1415	Aliphatics >C35-44	SOLID - INITIAL	#N/A	mg/kg	ug/kg	18400.0	946000.0	91400.0				59200.0	7720.0		83600.0	23000.0		583000.0	131000.0		665000.0				

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					Hole Ref	AEC18-LF-TP216	AEC18-LF-TP216	AEC18-LF-TP216	AEC18-LF-TP217	AEC18-LF-TP217	AEC18-LF-TP218	AEC18-LF-TP218	AEC18-LF-TP219	AEC18-LF-TP219	AEC18-LF-TP220	AEC18-LF-TP220	AEC18-LF-TP220	AEC18-LF-TP221	AEC18-LF-TP221	AEC18-LF-TP221	AEC18-LF-TP222	AEC18-LF-TP222	AEC18-LF-TP223	AEC18-LF-TP223	AEC18-LF-TP223
					Sample Top	1.80	2.80	4.50	1.50	2.50	0.50	3.50	1.50	4.50	0.50	2.50	4.50	0.20	1.20	3.50	1.00	2.00	0.50	3.50	4.50
					Lookup soil	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MADE GROUND	MG-LF	MADE GROUND	MG-LF	MADE GROUND	MG-LF	MG-LF	MADE GROUND	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF
					Sample Ref	5	6	8	2	3	1	4	2	6	1	3	5	1	3	5	2	3	1	4	5
Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
103-33-3	Azobenzene	SOLID - INITIAL	0.38	mg/kg	ug/kg																				
106-47-8	4-Chloroaniline	SOLID - INITIAL	0.01	mg/kg	ug/kg																				
700-57-23	4-Chlorophenylphenylether	SOLID - INITIAL	#N/A	mg/kg	ug/kg																				
88-74-4	2-Nitroaniline	SOLID - INITIAL	0.01	mg/kg	ug/kg																				
99-09-2	3-Nitroaniline	SOLID - INITIAL	#N/A	mg/kg	ug/kg																				
994-05-8	Tertiary Amyl Methyl Ether	SOLID - INITIAL	#N/A	mg/kg	ug/kg																				
1336-36-6	PCB Total (WAC only)	SOLID	#N/A	mg/kg	mg/kg																				
P1330	BTEX (total) WAC	SOLID	#N/A	mg/kg	mg/kg																				

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Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	Hole Ref																			
						AEC18-LF-TP224	AEC18-LF-TP224	AEC18-LF-TP224	AEC18-LF-TP224	AEC18-LF-TP225	AEC18-LF-TP225	AEC18-LF-TP225	AEC18-LF-TP226	AEC18-LF-TP226	AEC18-LF-TP227	AEC18-LF-TP227	AEC18-LF-TP227	AEC18-LF-TP228	AEC18-LF-TP228	AEC18-LF-TP228	AEC18-LF-TP229	AEC18-LF-TP229	AEC18-LF-TP229	AEC18-LF-TP232	AEC18-LF-TP232
						0.50	1.50	3.50	4.50	0.20	1.50	4.50	1.50	3.50	0.20	2.50	4.50	1.50	2.50	3.50	0.20	3.50	4.50	1.50	2.30
						MG-LF	MG-LF	MG-LF	MG-LF	MADE GROUND	MG-LF	MG-LF	MG-LF	MG-LF	TS	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	TS	MG-LF	MG-LF	MG-LF	MG-LF
						1	2	4	5	1	2	5	3	5	1	4	6	3	4	5	1	4	5	3	4
						ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
108-67-8	1,3,5-Trimethylbenzene	SOLID - INITIAL	0.15	mg/kg	mg/kg																				
108-86-1	Bromobenzene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
108-90-7	Chlorobenzene	SOLID - INITIAL	4.46	mg/kg	mg/kg																				
108-95-2	Phenol	SOLID - INITIAL	0.04	mg/kg	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
111-91-1	Bis(2-chloroethoxy)methane	SOLID - INITIAL	0.01	mg/kg	mg/kg																				
117-81-7	Bis(2-ethylhexyl)phthalate	SOLID - INITIAL	18472.17	mg/kg	mg/kg																				
117-84-0	Di-N-Octyl Phthalate	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
118-74-1	Hexachlorobenzene (HCB)	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
120-82-1	1,2,4-Trichlorobenzene	SOLID - INITIAL	1.81	mg/kg	mg/kg																				
120-83-2	2,4-Dichlorophenol	SOLID - INITIAL	0.28	mg/kg	mg/kg																				
121-14-2	2,4-Dinitrotoluene	SOLID - INITIAL	0.00	mg/kg	mg/kg																				
122-39-4	Diphenylamine	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
124-48-1	Dibromochloromethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
127-18-4	Tetrachloroethene	SOLID - INITIAL	1.46	mg/kg	mg/kg																				
131-11-3	Dimethylphthalate	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
132-64-9	Dibenzofuran	SOLID - INITIAL	0.49	mg/kg	mg/kg																				
135-98-8	Sec-Butylbenzene	SOLID - INITIAL	1.39	mg/kg	mg/kg																				
142-28-9	1,3-Dichloropropane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
156-59-2	cis-1,2-Dichloroethene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
156-60-5	trans-1,2-Dichloroethene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
1634-04-4	Methyl tert-butyl ether (MTBE)	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
39638-32-9	Bis(2-chloroisopropyl)ether	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
528-29-0	O-Dinitrobenzene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
534-52-1	2-Methyl-4,6-Dinitrophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
541-73-1	1,3-Dichlorobenzene	SOLID - INITIAL	145.60	mg/kg	mg/kg																				
56-23-5	Tetrachloromethane (Carbon Tetra Chloride)	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
563-58-6	1,1-Dichloropropene	SOLID - INITIAL	0.41	mg/kg	mg/kg																				
58-90-2	2,3,4,6-Tetrachlorophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
594-20-7	2,2-Dichloropropane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
59-50-7	4-Chloro-3-Methylphenol	SOLID - INITIAL	2.93	mg/kg	mg/kg																				
606-20-2	2,6-Dinitrotoluene	SOLID - INITIAL	1.48	mg/kg	mg/kg																				
62-53-3	Aniline	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
630-20-6	1,1,1,2-Tetrachloroethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
67-66-3	Chloroform	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
700-57-23	4-Chlorophenyl Phenyl Ether	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
71-55-6	1,1,1-Trichloroethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
74-95-3	Dibromomethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
74-97-5	Bromochloromethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
75-01-4	Chloroethene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
75-25-2	Tribromomethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
75-27-4	Bromodichloromethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
75-34-3	1,1-Dichloroethane	SOLID - INITIAL	0.01	mg/kg	mg/kg																				
75-35-4	1,1-Dichloroethene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
77-47-4	Hexachlorocyclopentadiene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
78-87-5	1,2-Dichloropropane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
79-00-5	1,1,2-Trichloroethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
79-01-6	Trichloroethene	SOLID - INITIAL	0.09	mg/kg	mg/kg																				
84-66-2	Diethylphthalate	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
84-74-2	Di-N-Butyl Phthalate	SOLID - INITIAL	0.52	mg/kg	mg/kg																				
85-68-7	Butylbenzylphthalate	SOLID - INITIAL	23.36	mg/kg	mg/kg																				
86-74-8	Carbazole	SOLID - INITIAL	0.01	mg/kg	mg/kg																				
87-61-6	1,2,3 Trichlorobenzene	SOLID - INITIAL	0.26	mg/kg	mg/kg																				
87-68-3	Hexachlorobutadiene (HCBd)	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
87-86-5	Pentachlorophenol (PCP)	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
88-06-2	2,4,6-Trichlorophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
88-74-4	2-Nitroaniline	SOLID - INITIAL	0.01	mg/kg	mg/kg																				
91-57-6	2-Methylnaphthalene	SOLID - INITIAL	0.84	mg/kg	mg/kg																				
91-58-7	2-Chloronaphthalene	SOLID - INITIAL	0.92	mg/kg	mg/kg																				
935-95-5	2,3,5,6-Tetrachlorophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
95-47-6	Xylene	SOLID - INITIAL	0.23	mg/kg	mg/kg																				
95-48-7	2-Methylphenol	SOLID - INITIAL	0.54	mg/kg	mg/kg																				
95-49-8	2-Chlorotoluene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
95-50-1	1,2-Dichlorobenzene	SOLID - INITIAL	40.42	mg/kg	mg/kg																				
95-57-8	2-Chlorophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
95-63-6	1,2,4-Trimethylbenzene	SOLID - INITIAL	0.25	mg/kg	mg/kg																				

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Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	Hole Ref																					
						AEC18-LF-TP224	AEC18-LF-TP224	AEC18-LF-TP224	AEC18-LF-TP224	AEC18-LF-TP225	AEC18-LF-TP225	AEC18-LF-TP225	AEC18-LF-TP226	AEC18-LF-TP226	AEC18-LF-TP227	AEC18-LF-TP227	AEC18-LF-TP227	AEC18-LF-TP228	AEC18-LF-TP228	AEC18-LF-TP228	AEC18-LF-TP229	AEC18-LF-TP229	AEC18-LF-TP229	AEC18-LF-TP232	AEC18-LF-TP232		
						0.50	1.50	3.50	4.50	0.20	1.50	4.50	1.50	3.50	0.20	2.50	4.50	1.50	2.50	3.50	0.20	3.50	4.50	1.50	2.30		
						MG-LF	MG-LF	MG-LF	MG-LF	MADE GROUND	MG-LF	MG-LF	MG-LF	MG-LF	TS	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	TS	MG-LF	MG-LF	MG-LF	MG-LF		
						1	2	4	5	1	2	5	3	5	1	4	6	3	4	5	1	4	5	3	4		
						ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES		
98-06-6	Tert-Butylbenzene	SOLID - INITIAL	0.75	mg/kg	mg/kg																						
98-82-8	Isopropylbenzene	SOLID - INITIAL	0.27	mg/kg	mg/kg																						
99-09-2	3-Nitroaniline	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
99-65-0	M-Dinitrobenzene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
99-87-6	4-Isopropyltoluene	SOLID - INITIAL	54.06	mg/kg	mg/kg																						
P1374	xylene	SOLID - INITIAL	0.23	mg/kg	mg/kg																						
18540-29-9	chromium hexavalent	SOLID - INITIAL	0.02	mg/kg	mg/kg								<0.3	<0.6													
P1095	Cyanide Free	SOLID - INITIAL	#N/A	mg/kg	mg/kg								<0.5														
P1239	Complex Cyanide	SOLID - INITIAL	0.26	mg/kg	mg/kg								<0.5														
31508-00-6	PCB-118 2,3,4,4,5 - Pentachlorobiphenyl	SOLID - INITIAL	#N/A	mg/kg	mg/kg																						
32598-13-3	PCB 77	SOLID - INITIAL	6185.41	mg/kg	mg/kg																						
32598-14-4	PCB 105	SOLID - INITIAL	8940.63	mg/kg	mg/kg																						
32774-16-6	PCB 169	SOLID - INITIAL	37270.75	mg/kg	mg/kg																						
38380-08-4	PCB-156 2,3,3,4,4,5 - Hexachlorobiphenyl	SOLID - INITIAL	3172.26	mg/kg	mg/kg																						
39635-31-9	PCB 189	SOLID - INITIAL	270002.64	mg/kg	mg/kg																						
52663-72-6	PCB 167	SOLID - INITIAL	45853.03	mg/kg	mg/kg																						
57465-28-8	PCB 126	SOLID - INITIAL	8940.63	mg/kg	mg/kg																						
65510-44-3	PCB 123	SOLID - INITIAL	8940.63	mg/kg	mg/kg																						
69782-90-7	PCB 157	SOLID - INITIAL	45853.03	mg/kg	mg/kg																						
70362-50-4	PCB 81	SOLID - INITIAL	8940.63	mg/kg	mg/kg																						
74472-37-0	PCB 114	SOLID - INITIAL	8940.63	mg/kg	mg/kg																						
100-02-7	4-Nitrophenol	SOLID	0.04	mg/kg	ug/kg			<100	<100				<500	<100	<100								<100	<100	<200	<500	
100-41-4	Ethylbenzene	SOLID	0.53	mg/kg	ug/kg		<4	29.3	<80				1760.0	10.3	<80												
100-42-5	Styrene	SOLID	1.04	mg/kg	ug/kg			<10	<200				<200	<10	<200												
10061-01-5	cis 1,3-Dichloropropene	SOLID	#N/A	mg/kg	ug/kg			<10	<200				<200	<10	<200												
10061-02-6	trans 1,3-Dichloropropene	SOLID	#N/A	mg/kg	ug/kg			<10	<200				<200	<10	<200												
103-65-1	Propylbenzene	SOLID	0.28	mg/kg	ug/kg			18.9	<200				<200	<10	<200												
104-51-8	n-Butylbenzene	SOLID	1.39	mg/kg	ug/kg			22.1	<220				<220	<11	<220												
105-67-9	2,4-Dimethylphenol	SOLID	1.18	mg/kg	ug/kg			<100	<100				<500	<100	<100												
106-43-4	4-Chlorotoluene	SOLID	#N/A	mg/kg	ug/kg			<10	<200				<200	<10	<200												
106-44-5	4-Methylphenol	SOLID	0.53	mg/kg	ug/kg			<100	<100				<500	<100	<100												
106-46-7	1,4-Dichlorobenzene	SOLID	48.01	mg/kg	ug/kg			<100	271.0				<500	<100	<100												
106-93-4	1,2-Dibromoethane	SOLID	#N/A	mg/kg	ug/kg			<10	<200				<200	<10	<200												
107-06-2	1,2-Dichloroethane	SOLID	#N/A	mg/kg	ug/kg			<5	<100				<100	<5	<100												
108-67-8	1,3,5-Trimethylbenzene	SOLID	0.15	mg/kg	ug/kg			113.0	311.0				433.0	71.4	321.0												
108-86-1	Bromobenzene	SOLID	#N/A	mg/kg	ug/kg			<10	<200				<200	<10	<200												
108-88-3	Toluene	SOLID	0.88	mg/kg	ug/kg		<7	<7	<140				<140	<7	<140												
108-90-7	Chlorobenzene	SOLID	4.46	mg/kg	ug/kg			8.6	506.0				<100	<5	<100												
108-95-2	Phenol	SOLID	0.04	mg/kg	ug/kg			153.0	155.0				<500	151.0	188.0												
111-44-4	Bis(2-chloroethyl)ether	SOLID	#N/A	mg/kg	ug/kg			<100	<100				<500	<100	<100												
111-91-1	Bis(2-chloroethoxy)methane	SOLID	0.01	mg/kg	ug/kg			<100	<100				<500	<100	<100												
117-81-7	Bis(2-ethylhexyl)phthalate	SOLID	18472.17	mg/kg	ug/kg			354.0	1600.0				2460.0	696.0	1230.0												
117-84-0	n-Dioctylphthalate	SOLID	146035.35	mg/kg	ug/kg			<100	<100				<500	<100	<100												
118-74-1	Hexachlorobenzene	SOLID	0.23	mg/kg	ug/kg			<100	<100				<500	<100	<100												
120-82-1	1,2,4-Trichlorobenzene	SOLID	1.81	mg/kg	ug/kg			<100	<100				<400	<100	<100												
120-83-2	2,4-Dichlorophenol	SOLID	0.28	mg/kg	ug/kg			<100	<100				<500	<100	<100												
121-14-2	2,4-Dinitrotoluene	SOLID	0.00	mg/kg	ug/kg			<100	<100				<500	<100	<100												
124-48-1	Dibromochloromethane	SOLID	#N/A	mg/kg	ug/kg			<10	<200				<200	<10	<200												
127-18-4	Tetrachloroethane	SOLID	1.46	mg/kg	ug/kg			<5	<100				<100	<5	<100												
131-11-3	Dimethyl phthalate	SOLID	#N/A	mg/kg	ug/kg			<100	<100				<500	<100	<100												
132-64-9	Dibenzofuran	SOLID	0.49	mg/kg	ug/kg			590.0	<100				<500	464.0	<100												
135-98-8	sec-Butylbenzene	SOLID	1.39	mg/kg	ug/kg			14.9	<200				<200	<10	<200												
142-28-9	1,3-Dichloropropane	SOLID	#N/A	mg/kg	ug/kg			<7	<140				<140	<7	<140												
156-59-2	cis 1,2-Dichloroethene	SOLID	0.31	mg/kg	ug/kg			<6	<120				<120	<6	<120												
156-60-5	trans 1,2-Dichloroethene	SOLID	#N/A	mg/kg	ug/kg			<10	<200				<200	<10	<200												
198-55-0	Perylene	SOLID	206.28	mg/kg	ug/kg																						
39638-32-9	Bis(2-chloroisopropyl)ether	SOLID	#N/A	mg/kg	ug/kg			<100	<100				<500	<100	<100												
541-73-1	1,3-Dichlorobenzene	SOLID	145.60	mg/kg	ug/kg			<100	<100				<160	<100	<100												

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Hole Ref	AEC18-LF-TP224	AEC18-LF-TP224	AEC18-LF-TP224	AEC18-LF-TP224	AEC18-LF-TP225	AEC18-LF-TP225	AEC18-LF-TP225	AEC18-LF-TP226	AEC18-LF-TP226	AEC18-LF-TP227	AEC18-LF-TP227	AEC18-LF-TP227	AEC18-LF-TP228	AEC18-LF-TP228	AEC18-LF-TP228	AEC18-LF-TP229	AEC18-LF-TP229	AEC18-LF-TP229	AEC18-LF-TP232	AEC18-LF-TP232
Sample Top	0.50	1.50	3.50	4.50	0.20	1.50	4.50	1.50	3.50	0.20	2.50	4.50	1.50	2.50	3.50	0.20	3.50	4.50	1.50	2.30
Lookup soil	MG-LF	MG-LF	MG-LF	MG-LF	MADE GROUND	MG-LF	MG-LF	MG-LF	MG-LF	TS	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	TS	MG-LF	MG-LF	MG-LF	MG-LF
Sample Ref	1	2	4	5	1	2	5	3	5	1	4	6	3	4	5	1	4	5	3	4
Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
1610-18-0	Prometon SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg															
16118-49-3	Carbetamide	SOLID	#N/A	mg/kg	mg/kg															
1689-83-4	loxynil	SOLID	#N/A	mg/kg	mg/kg															
1689-84-5	Bromoxynil	SOLID	#N/A	mg/kg	mg/kg															
1702-17-6	Clopyralid	SOLID	#N/A	mg/kg	mg/kg															
1746-81-2	Monolinuron	SOLID	#N/A	mg/kg	mg/kg															
18691-97-9	Methabenzthiazuron	SOLID	#N/A	mg/kg	mg/kg															
1897-45-6	Chlorothalonil	SOLID	#N/A	mg/kg	ug/kg															
1912-24-9	Atrazine SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg															
1918-00-9	Dicamba	SOLID	#N/A	mg/kg	mg/kg															
6607	Picloram	SOLID	#N/A	mg/kg	mg/kg															
1967-16-4	Chlorbufam	SOLID	#N/A	mg/kg	mg/kg															
1982-47-4	Chloroxuron	SOLID	#N/A	mg/kg	mg/kg															
19937-59-8	Metoxuron	SOLID	#N/A	mg/kg	mg/kg															
2132-70-9	p,p-Methoxychlor	SOLID	#N/A	mg/kg	ug/kg															
2274-67-1	Chlorpyrifos-methyl	SOLID	#N/A	mg/kg	ug/kg															
2303-17-5	Triallate	SOLID	#N/A	mg/kg	ug/kg															
2310-17-0	Phosalone	SOLID	#N/A	mg/kg	ug/kg															
23103-98-2	Pirimicarb	SOLID	#N/A	mg/kg	mg/kg															
24017-47-8	Triazophos	SOLID	#N/A	mg/kg	ug/kg															
25057-89-0	Bentazone	SOLID	#N/A	mg/kg	mg/kg															
2642-71-9	Azinphos-ethyl	SOLID	#N/A	mg/kg	ug/kg															
2921-88-2	Chlorpyrifos	SOLID	#N/A	mg/kg	ug/kg															
29232-93-7	Pirimiphos Methyl	SOLID	#N/A	mg/kg	ug/kg															
297-78-9	Telodrin	SOLID	#N/A	mg/kg	ug/kg															
298-00-0	Methyl Parathion	SOLID	#N/A	mg/kg	ug/kg															
298-01-1	Mevinphos	SOLID	#N/A	mg/kg	ug/kg															
298-04-4	Disulfoton SUBCON OCP Alcontrol	SOLID	#N/A	mg/kg	ug/kg															
29973-13-5	Ethiofencarb	SOLID	#N/A	mg/kg	mg/kg															
30667-99-3	o,p-Methoxychlor	SOLID	#N/A	mg/kg	ug/kg															
309-00-2	Aldrin SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg															
31218-83-4	Propetamphos	SOLID	#N/A	mg/kg	ug/kg															
314-40-9	Bromacil	SOLID	#N/A	mg/kg	mg/kg															
319-84-6	alpha-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg															
319-85-7	beta-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg															
330-54-1	Diuron SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg															
330-55-2	Linuron	SOLID	#N/A	mg/kg	mg/kg															
33213-65-9	Endosulphan II	SOLID	#N/A	mg/kg	ug/kg															
333-41-5	Diazinon	SOLID	#N/A	mg/kg	ug/kg															
34123-59-6	Isoproturon	SOLID	#N/A	mg/kg	mg/kg															
34205-21-5	Dimefuron	SOLID	#N/A	mg/kg	mg/kg															
3424-82-6	o,p-DDE	SOLID	#N/A	mg/kg	ug/kg															
35367-38-5	Diflubenuron	SOLID	#N/A	mg/kg	mg/kg															
698836	Benazolin	SOLID	#N/A	mg/kg	mg/kg															
38260-54-7	Etriphos	SOLID	#N/A	mg/kg	ug/kg															
40483-25-2	Diclofop	SOLID	#N/A	mg/kg	mg/kg															
40487-42-1	Pendimethalin	SOLID	#N/A	mg/kg	ug/kg															
43121-43-3	Triadimefon	SOLID	#N/A	mg/kg	ug/kg															
465-73-6	Isodrin	SOLID	#N/A	mg/kg	ug/kg															
470-90-6	Chlorfenvinphos	SOLID	#N/A	mg/kg	ug/kg															
50-29-3	p,p-DDT SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg															
50-31-7	2,3,6-TBA	SOLID	#N/A	mg/kg	mg/kg															
5103-71-9	cis-Chlordane SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg															
5103-74-2	trans-Chlordane SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg															
51630-58-1	Fenvalerate SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg															
52315-07-8	Cypermethrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg															
52645-53-1	Permethrin SUBCON RPS MH Pyrethroids	SOLID	#N/A	mg/kg	mg/kg															
52756-22-6	Flamprop-isopropyl	SOLID	#N/A	mg/kg	mg/kg															
52918-63-5	Deltamethrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg															
53-19-0	o,p-TDE (DDD)	SOLID	#N/A	mg/kg	ug/kg															
55335-06-3	Triclopyr	SOLID	#N/A	mg/kg	mg/kg															
55-38-9	Fenthion	SOLID	#N/A	mg/kg	ug/kg															
563-12-2	Ethion	SOLID	#N/A	mg/kg	ug/kg															
56-38-2	Parathion (Ethyl Parathion)	SOLID	#N/A	mg/kg	ug/kg															
58667-63-3	Fiamprop	SOLID	#N/A	mg/kg	mg/kg															

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Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	Hole Ref	AEC18-LF-TP224	AEC18-LF-TP224	AEC18-LF-TP224	AEC18-LF-TP224	AEC18-LF-TP225	AEC18-LF-TP225	AEC18-LF-TP225	AEC18-LF-TP226	AEC18-LF-TP226	AEC18-LF-TP227	AEC18-LF-TP227	AEC18-LF-TP227	AEC18-LF-TP228	AEC18-LF-TP228	AEC18-LF-TP228	AEC18-LF-TP229	AEC18-LF-TP229	AEC18-LF-TP232	AEC18-LF-TP232	
						Sample Top	0.50	1.50	3.50	4.50	0.20	1.50	4.50	1.50	3.50	0.20	2.50	4.50	1.50	2.50	3.50	0.20	3.50	4.50	1.50	2.30
						Lookup soil	MG-LF	MG-LF	MG-LF	MG-LF	MADE GROUND	MG-LF	MG-LF	MG-LF	MG-LF	TS	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	TS	MG-LF	MG-LF	MG-LF	MG-LF
						Sample Ref	1	2	4	5	1	2	5	3	5	1	4	6	3	4	5	1	4	5	3	4
						Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
103-33-3	Azobenzene	SOLID - INITIAL	0.38	mg/kg	ug/kg				<100	<100			<500	<100	<100			<100		<100			<100	<100	<200	<500
106-47-8	4-Chloroaniline	SOLID - INITIAL	0.01	mg/kg	ug/kg				<100	<100			<500	<100	<100			<100		<100			<100	<100	<200	<500
700-57-23	4-Chlorophenylphenylether	SOLID - INITIAL	#N/A	mg/kg	ug/kg				<100	<100			<500	<100	<100			<100		<100			<100	<100	<200	<500
88-74-4	2-Nitroaniline	SOLID - INITIAL	0.01	mg/kg	ug/kg				<100	<100			<500	<100	<100			<100		<100			<100	<100	<200	<500
99-09-2	3-Nitroaniline	SOLID - INITIAL	#N/A	mg/kg	ug/kg				<100	<100			<500	<100	<100			<100		<100			<100	<100	<200	<500
994-05-8	Tertiary Amyl Methyl Ether	SOLID - INITIAL	#N/A	mg/kg	ug/kg				<10	<200			<200	<10	<200			<200		<10			<200	<10	<10	<10
1336-36-6	PCB Total (WAC only)	SOLID	#N/A	mg/kg	mg/kg																					
P1330	BTEX (total) WAC	SOLID	#N/A	mg/kg	mg/kg																					

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G2 RTM Level 1 - Soils

Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	AEC18-LF-TP233	AEC18-LF-TP233	AEC18-LF-TP236	AEC18-LF-TP236	AEC18-LF-TP236	AEC18-LF-TP237	AEC18-LF-TP237	AEC18-LF-TP239	AEC18-LF-TP239	AEC18-LF-TP239	AEC18-LF-TP241	AEC18-LF-TP241	AEC18-LF-TP242	AEC18-LF-TP242	AEC18-LF-TP243	AEC18-LF-TP243	AEC18-LF-TP243	AEC18-LF-TP244	AEC18-LF-TP244	AEC18-LF-TP246	
						Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref	Sample Ref
108-67-8	1,3,5-Trimethylbenzene	SOLID - INITIAL	0.15	mg/kg	mg/kg																					
108-86-1	Bromobenzene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
108-90-7	Chlorobenzene	SOLID - INITIAL	4.46	mg/kg	mg/kg																					
108-95-2	Phenol	SOLID - INITIAL	0.04	mg/kg	mg/kg	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01	<0.01	<0.01	0.0	<0.01	0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
111-91-1	Bis(2-chloroethoxy)methane	SOLID - INITIAL	0.01	mg/kg	mg/kg																					
117-81-7	Bis(2-ethylhexyl)phthalate	SOLID - INITIAL	18472.17	mg/kg	mg/kg																					
117-84-0	Di-N-Octyl Phthalate	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
118-74-1	Hexachlorobenzene (HCB)	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
120-82-1	1,2,4-Trichlorobenzene	SOLID - INITIAL	1.81	mg/kg	mg/kg																					
120-83-2	2,4-Dichlorophenol	SOLID - INITIAL	0.28	mg/kg	mg/kg																					
121-14-2	2,4-Dinitrotoluene	SOLID - INITIAL	0.00	mg/kg	mg/kg																					
122-39-4	Diphenylamine	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
124-48-1	Dibromochloromethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
127-18-4	Tetrachloroethene	SOLID - INITIAL	1.46	mg/kg	mg/kg																					
131-11-3	Dimethylphthalate	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
132-64-9	Dibenzofuran	SOLID - INITIAL	0.49	mg/kg	mg/kg																					
135-98-8	Sec-Butylbenzene	SOLID - INITIAL	1.39	mg/kg	mg/kg																					
142-28-9	1,3-Dichloropropane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
156-59-2	cis-1,2-Dichloroethene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
156-60-5	trans-1,2-Dichloroethene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
1634-04-4	Methyl tert-butyl ether (MTBE)	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
39638-32-9	Bis(2-chloroisopropyl)ether	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
528-29-0	O-Dinitrobenzene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
534-52-1	2-Methyl-4,6-Dinitrophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
541-73-1	1,3-Dichlorobenzene	SOLID - INITIAL	145.60	mg/kg	mg/kg																					
56-23-5	Tetrachloromethane (Carbon Tetra Chloride)	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
563-58-6	1,1-Dichloropropene	SOLID - INITIAL	0.41	mg/kg	mg/kg																					
58-90-2	2,3,4,6-Tetrachlorophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
594-20-7	2,2-Dichloropropane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
59-50-7	4-Chloro-3-Methylphenol	SOLID - INITIAL	2.93	mg/kg	mg/kg																					
606-20-2	2,6-Dinitrotoluene	SOLID - INITIAL	1.48	mg/kg	mg/kg																					
62-53-3	Aniline	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
630-20-6	1,1,1,2-Tetrachloroethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
67-66-3	Chloroform	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
700-57-23	4-Chlorophenyl Phenyl Ether	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
71-55-6	1,1,1-Trichloroethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
74-95-3	Dibromomethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
74-97-5	Bromochloromethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
75-01-4	Chloroethene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
75-25-2	Tribromomethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
75-27-4	Bromodichloromethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
75-34-3	1,1-Dichloroethane	SOLID - INITIAL	0.01	mg/kg	mg/kg																					
75-35-4	1,1-Dichloroethene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
77-47-4	Hexachlorocyclopentadiene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
78-87-5	1,2-Dichloropropane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
79-00-5	1,1,2-Trichloroethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
79-01-6	Trichloroethene	SOLID - INITIAL	0.09	mg/kg	mg/kg																					
84-66-2	Diethylphthalate	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
84-74-2	Di-N-Butyl Phthalate	SOLID - INITIAL	0.52	mg/kg	mg/kg																					
85-68-7	Butylbenzylphthalate	SOLID - INITIAL	23.36	mg/kg	mg/kg																					
86-74-8	Carbazole	SOLID - INITIAL	0.01	mg/kg	mg/kg																					
87-61-6	1,2,3 Trichlorobenzene	SOLID - INITIAL	0.26	mg/kg	mg/kg																					
87-68-3	Hexachlorobutadiene (HCBd)	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
87-86-5	Pentachlorophenol (PCP)	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
88-06-2	2,4,6-Trichlorophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
88-74-4	2-Nitroaniline	SOLID - INITIAL	0.01	mg/kg	mg/kg																					
91-57-6	2-Methylnaphthalene	SOLID - INITIAL	0.84	mg/kg	mg/kg																					
91-58-7	2-Chloronaphthalene	SOLID - INITIAL	0.92	mg/kg	mg/kg																					
935-95-5	2,3,5,6-Tetrachlorophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
95-47-6	Xylene	SOLID - INITIAL	0.23	mg/kg	mg/kg																					
95-48-7	2-Methylphenol	SOLID - INITIAL	0.54	mg/kg	mg/kg																					
95-49-8	2-Chlorotoluene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
95-50-1	1,2-Dichlorobenzene	SOLID - INITIAL	40.42	mg/kg	mg/kg																					
95-57-8	2-Chlorophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
95-63-6	1,2,4-Trimethylbenzene	SOLID - INITIAL	0.25	mg/kg	mg/kg																					
95-95-4	2,4,5-Trichlorophenol	SOLID - INITIAL	60.93	mg/kg	mg/kg																					
96-12-8	1,2-Dibromo-3-Chloropropane																									

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Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	AEC18-LF-TP233	AEC18-LF-TP233	AEC18-LF-TP236	AEC18-LF-TP236	AEC18-LF-TP236	AEC18-LF-TP237	AEC18-LF-TP237	AEC18-LF-TP239	AEC18-LF-TP239	AEC18-LF-TP239	AEC18-LF-TP241	AEC18-LF-TP241	AEC18-LF-TP242	AEC18-LF-TP242	AEC18-LF-TP243	AEC18-LF-TP243	AEC18-LF-TP244	AEC18-LF-TP244	AEC18-LF-TP246	
						ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
98-06-6	Tert-Butylbenzene	SOLID - INITIAL	0.75	mg/kg	mg/kg																				
98-82-8	Isopropylbenzene	SOLID - INITIAL	0.27	mg/kg	mg/kg																				
99-09-2	3-Nitroaniline	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
99-65-0	M-Dinitrobenzene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
99-87-6	4-Isopropyltoluene	SOLID - INITIAL	54.06	mg/kg	mg/kg																				
P1374	xylene	SOLID - INITIAL	0.23	mg/kg	mg/kg																				
18540-29-9	chromium hexavalent	SOLID - INITIAL	0.02	mg/kg	mg/kg							<0.6					<0.3		1.4						
P1095	Cyanide Free	SOLID - INITIAL	#N/A	mg/kg	mg/kg							<0.5					<0.5		<1		<1	<1			
P1239	Complex Cyanide	SOLID - INITIAL	0.26	mg/kg	mg/kg							<0.5					<0.5		346.0		4.9	8.5			
31508-00-6	PCB-118 2,3,4,4,5 - Pentachlorobiphenyl	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
32598-13-3	PCB 77	SOLID - INITIAL	6185.41	mg/kg	mg/kg																				
32598-14-4	PCB 105	SOLID - INITIAL	8940.63	mg/kg	mg/kg																				
32774-16-6	PCB 169	SOLID - INITIAL	37270.75	mg/kg	mg/kg																				
38380-08-4	PCB-156 2,3,3,4,4,5 - Hexachlorobiphenyl	SOLID - INITIAL	3172.26	mg/kg	mg/kg																				
39635-31-9	PCB 189	SOLID - INITIAL	270002.64	mg/kg	mg/kg																				
52663-72-6	PCB 167	SOLID - INITIAL	45853.03	mg/kg	mg/kg																				
57465-28-8	PCB 126	SOLID - INITIAL	8940.63	mg/kg	mg/kg																				
65510-44-3	PCB 123	SOLID - INITIAL	8940.63	mg/kg	mg/kg																				
69782-90-7	PCB 157	SOLID - INITIAL	45853.03	mg/kg	mg/kg																				
70362-50-4	PCB 81	SOLID - INITIAL	8940.63	mg/kg	mg/kg																				
74472-37-0	PCB 114	SOLID - INITIAL	8940.63	mg/kg	mg/kg																				
100-02-7	4-Nitrophenol	SOLID	0.04	mg/kg	ug/kg							<100				<200	<100	<200						<100	
100-41-4	Ethylbenzene	SOLID	0.53	mg/kg	ug/kg		<4	<4	201.0			676.0	<4	9.5	<80	<40	180.0		<80	<4		<80	<4	<4	<4
100-42-5	Styrene	SOLID	1.04	mg/kg	ug/kg							<100			<200	<100	<100							<200	
10061-01-5	cis 1,3-Dichloropropene	SOLID	#N/A	mg/kg	ug/kg							<100			<200	<100	<100							<200	
10061-02-6	trans 1,3-Dichloropropene	SOLID	#N/A	mg/kg	ug/kg							<100			<200	<100	<100							<200	
103-65-1	Propylbenzene	SOLID	0.28	mg/kg	ug/kg							1130.0			<200	<100	<100							<200	
104-51-8	n-Butylbenzene	SOLID	1.39	mg/kg	ug/kg							568.0			<220	<110	<110							<220	
105-67-9	2,4-Dimethylphenol	SOLID	1.18	mg/kg	ug/kg							<100			<200	<100	<200							<100	
106-43-4	4-Chlorotoluene	SOLID	#N/A	mg/kg	ug/kg							<100			<200	<100	<100							<200	
106-44-5	4-Methylphenol	SOLID	0.53	mg/kg	ug/kg							<100			<200	<100	<200							147.0	
106-46-7	1,4-Dichlorobenzene	SOLID	48.01	mg/kg	ug/kg							<100			<100	<100	<200							<100	
106-93-4	1,2-Dibromoethane	SOLID	#N/A	mg/kg	ug/kg							<100			<200	<100	<100							<200	
107-06-2	1,2-Dichloroethane	SOLID	#N/A	mg/kg	ug/kg							<50			<100	<50	<50							<100	
108-67-8	1,3,5-Trimethylbenzene	SOLID	0.15	mg/kg	ug/kg							4540.0			<160	105.0	407.0							<160	
108-86-1	Bromobenzene	SOLID	#N/A	mg/kg	ug/kg							<100			<200	<100	<100							<200	
108-88-3	Toluene	SOLID	0.88	mg/kg	ug/kg		<7	<7	<7			<70	<7	<7	<140	<70	<140		<140	<7		<140	<7	<7	<7
108-90-7	Chlorobenzene	SOLID	4.46	mg/kg	ug/kg							<50			<100	<50	<50							<100	
108-95-2	Phenol	SOLID	0.04	mg/kg	ug/kg							<100			<200	<100	<200							113.0	
111-44-4	Bis(2-chloroethyl)ether	SOLID	#N/A	mg/kg	ug/kg							<100			<200	<100	<200							<100	
111-91-1	Bis(2-chloroethoxy)methane	SOLID	0.01	mg/kg	ug/kg							<100			<200	<100	<200							<100	
117-81-7	Bis(2-ethylhexyl)phthalate	SOLID	18472.17	mg/kg	ug/kg							249.0			<200	224.0	2580.0							158.0	
117-84-0	n-Dioctylphthalate	SOLID	146035.35	mg/kg	ug/kg							<100			<200	<100	570.0							<100	
118-74-1	Hexachlorobenzene	SOLID	0.23	mg/kg	ug/kg							<100			<200	<100	<200		<50					<100	
120-82-1	1,2,4-Trichlorobenzene	SOLID	1.81	mg/kg	ug/kg							<100			<200	<100	<200							<100	
120-83-2	2,4-Dichlorophenol	SOLID	0.28	mg/kg	ug/kg							<100			<200	<100	<200							<100	
121-14-2	2,4-Dinitrotoluene	SOLID	0.00	mg/kg	ug/kg							876.0			<200	<100	<200							<100	
124-48-1	Dibromochloromethane	SOLID	#N/A	mg/kg	ug/kg							<100			<200	<100	<100							<200	
127-18-4	Tetrachloroethene	SOLID	1.46	mg/kg	ug/kg							<50			<100	<50	<50							<100	
131-11-3	Dimethyl phthalate	SOLID	#N/A	mg/kg	ug/kg							<100			<200	<100	<200							<100	
132-64-9	Dibenzofuran	SOLID	0.49	mg/kg	ug/kg							254.0			<200	<100	<200							780.0	
135-98-8	sec-Butylbenzene	SOLID	1.39	mg/kg	ug/kg							<100			<200	<100	<100							<200	
142-28-9	1,3-Dichloropropane	SOLID	#N/A	mg/kg	ug/kg							<70			<140	<70	<70							<140	
156-59-2	cis 1,2-Dichloroethene	SOLID	0.31	mg/kg	ug/kg							<60			<120	<60	<60							<120	
156-60-5	trans 1,2-Dichloroethene	SOLID	#N/A	mg/kg	ug/kg							<100			<200	<100	<100							<200	
198-55-0	Perylene	SOLID	206.28	mg/kg	ug/kg																				<200
39638-32-9	Bis(2-chloroisopropyl)ether	SOLID	#N/A	mg/kg	ug/kg							<100			<200	<100	<200							<100	
541-73-1	1,3-Dichlorobenzene	SOLID	145.60	mg/kg	ug/kg							<100			<160	<100	<200							<100	
56-23-5	Carbon Tetrachloride	SOLID	#N/A	mg/kg	ug/kg							<100			<200	<100	<100							<200	
563-58-6	1,1-Dichloropropene	SOLID	0.41	mg/kg	ug/kg							<100			<200	<100	<100							<200	
594-20-7	2,2-Dichloropropane	SOLID	#N/A	mg/kg	ug/kg							<100			<200	<100	<100							<200	
59-50-7	4-Chloro-3-methylphenol	SOLID	2.93	mg/kg	ug/kg																				

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Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	Hole Ref																			
						AEC18-LF-TP233	AEC18-LF-TP233	AEC18-LF-TP236	AEC18-LF-TP236	AEC18-LF-TP236	AEC18-LF-TP237	AEC18-LF-TP237	AEC18-LF-TP239	AEC18-LF-TP239	AEC18-LF-TP239	AEC18-LF-TP241	AEC18-LF-TP241	AEC18-LF-TP242	AEC18-LF-TP242	AEC18-LF-TP243	AEC18-LF-TP243	AEC18-LF-TP243	AEC18-LF-TP244	AEC18-LF-TP244	AEC18-LF-TP246
						0.30	1.50	0.50	3.50	3.50	1.50	4.50	0.10	2.00	4.00	1.50	4.50	1.50	5.50	1.00	3.00	4.30	1.40	3.40	0.30
						MADE GROUND	MG-LF	MADE GROUND	MG-LF	MG-LF	MADE GROUND	MG-LF	MADE GROUND	MADE GROUND	MG-LF	MG-LF	MG-LF	MADE GROUND	MG-LF	MG-LF	MG-LF	MG-LF	MADE GROUND	MG-LF	MADE GROUND
						1	3	1	4	5	3	6	1	3	5	2	5	1	6	2	4	5	2	4	1
						ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
1610-18-0	Prometon SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																				
16118-49-3	Carbetamide	SOLID	#N/A	mg/kg	mg/kg																				
1689-83-4	loxynil	SOLID	#N/A	mg/kg	mg/kg																				
1689-84-5	Bromoxynil	SOLID	#N/A	mg/kg	mg/kg																				
1702-17-6	Clopyralid	SOLID	#N/A	mg/kg	mg/kg																				
1746-81-2	Monolinuron	SOLID	#N/A	mg/kg	mg/kg																				
18691-97-9	Methabenzthiazuron	SOLID	#N/A	mg/kg	mg/kg																				
1897-45-6	Chlorothalonil	SOLID	#N/A	mg/kg	ug/kg																				
1912-24-9	Atrazine SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																				
1918-00-9	Dicamba	SOLID	#N/A	mg/kg	mg/kg																				
6607	Picloram	SOLID	#N/A	mg/kg	mg/kg																				
1967-16-4	Chlorbufam	SOLID	#N/A	mg/kg	mg/kg																				
1982-47-4	Chloroxuron	SOLID	#N/A	mg/kg	mg/kg																				
19937-59-8	Metoxuron	SOLID	#N/A	mg/kg	mg/kg																				
2132-70-9	p,p-Methoxychlor	SOLID	#N/A	mg/kg	ug/kg																				
2274-67-1	Chlorpyrifos-methyl	SOLID	#N/A	mg/kg	ug/kg																				
2303-17-5	Triallate	SOLID	#N/A	mg/kg	ug/kg																				
2310-17-0	Phosalone	SOLID	#N/A	mg/kg	ug/kg																				
23103-98-2	Pirimicarb	SOLID	#N/A	mg/kg	mg/kg																				
24017-47-8	Triazophos	SOLID	#N/A	mg/kg	ug/kg																				
25057-89-0	Bentazone	SOLID	#N/A	mg/kg	mg/kg																				
2642-71-9	Azinphos-ethyl	SOLID	#N/A	mg/kg	ug/kg																				
2921-88-2	Chlorpyrifos	SOLID	#N/A	mg/kg	ug/kg																				
29232-93-7	Pirimiphos Methyl	SOLID	#N/A	mg/kg	ug/kg																				
297-78-9	Telodrin	SOLID	#N/A	mg/kg	ug/kg																				
298-00-0	Methyl Parathion	SOLID	#N/A	mg/kg	ug/kg																				
298-01-1	Mevinphos	SOLID	#N/A	mg/kg	ug/kg																				
298-04-4	Disulfoton SUBCON OCP Alcontrol	SOLID	#N/A	mg/kg	ug/kg																				
29973-13-5	Ethiofencarb	SOLID	#N/A	mg/kg	mg/kg																				
30667-99-3	o,p-Methoxychlor	SOLID	#N/A	mg/kg	ug/kg																				
309-00-2	Aldrin SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																				
31218-83-4	Propetamphos	SOLID	#N/A	mg/kg	ug/kg																				
314-40-9	Bromacil	SOLID	#N/A	mg/kg	mg/kg																				
319-84-6	alpha-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																				
319-85-7	beta-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																				
330-54-1	Diuron SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																				
330-55-2	Linuron	SOLID	#N/A	mg/kg	mg/kg																				
33213-65-9	Endosulphan II	SOLID	#N/A	mg/kg	ug/kg																				
333-41-5	Diazinon	SOLID	#N/A	mg/kg	ug/kg																				
34123-59-6	Isoproturon	SOLID	#N/A	mg/kg	mg/kg																				
34205-21-5	Dimefuron	SOLID	#N/A	mg/kg	mg/kg																				
3424-82-6	o,p-DDE	SOLID	#N/A	mg/kg	ug/kg																				
35367-38-5	Diflufenzuron	SOLID	#N/A	mg/kg	mg/kg																				
698836	Benazolin	SOLID	#N/A	mg/kg	mg/kg																				
38260-54-7	Etrimpfos	SOLID	#N/A	mg/kg	ug/kg																				
40483-25-2	Diclofop	SOLID	#N/A	mg/kg	mg/kg																				
40487-42-1	Pendimethalin	SOLID	#N/A	mg/kg	ug/kg																				
43121-43-3	Triadimefon	SOLID	#N/A	mg/kg	ug/kg																				
465-73-6	Isodrin	SOLID	#N/A	mg/kg	ug/kg																				
470-90-6	Chlorfenvinphos	SOLID	#N/A	mg/kg	ug/kg																				
50-29-3	p,p-DDT SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																				
50-31-7	2,3,6-TBA	SOLID	#N/A	mg/kg	mg/kg																				
5103-71-9	cis-Chlordane SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																				
5103-74-2	trans-Chlordane SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																				
51630-58-1	Fenvalerate SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																				
52315-07-8	Cypermethrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																				
52645-53-1	Permethrin SUBCON RPS MH Pyrethroids	SOLID	#N/A	mg/kg	mg/kg																				
52756-22-6	Flamprop-isopropyl	SOLID	#N/A	mg/kg	mg/kg																				
52918-63-5	Deltamethrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																				
53-19-0	o,p-TDE (DDD)	SOLID	#N/A	mg/kg	ug/kg																				
55335-06-3	Triclopyr	SOLID	#N/A	mg/kg	mg/kg																				
55-38-9	Fenthion	SOLID	#N/A	mg/kg	ug/kg																				
563-12-2	Ethion	SOLID	#N/A	mg/kg	ug/kg																				
56-38-2	Parathion (Ethyl Parathion)	SOLID	#N/A	mg/kg	ug/kg																				
58667-63-3	Fiamprop	SOLID	#N/A	mg/kg	mg/kg																				

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Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	AEC18-LF-TP233	AEC18-LF-TP233	AEC18-LF-TP236	AEC18-LF-TP236	AEC18-LF-TP236	AEC18-LF-TP237	AEC18-LF-TP237	AEC18-LF-TP239	AEC18-LF-TP239	AEC18-LF-TP239	AEC18-LF-TP241	AEC18-LF-TP241	AEC18-LF-TP242	AEC18-LF-TP242	AEC18-LF-TP243	AEC18-LF-TP243	AEC18-LF-TP244	AEC18-LF-TP244	AEC18-LF-TP246	
						ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES

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					Hole Ref	AEC18-LF-TP233	AEC18-LF-TP233	AEC18-LF-TP236	AEC18-LF-TP236	AEC18-LF-TP236	AEC18-LF-TP237	AEC18-LF-TP237	AEC18-LF-TP239	AEC18-LF-TP239	AEC18-LF-TP239	AEC18-LF-TP241	AEC18-LF-TP241	AEC18-LF-TP242	AEC18-LF-TP242	AEC18-LF-TP243	AEC18-LF-TP243	AEC18-LF-TP243	AEC18-LF-TP244	AEC18-LF-TP244	AEC18-LF-TP246	
					Sample Top	0.30	1.50	0.50	3.50	3.50	1.50	4.50	0.10	2.00	4.00	1.50	4.50	1.50	5.50	1.00	3.00	4.30	1.40	3.40	0.30	
					Lookup soil	MADE GROUND	MG-LF	MADE GROUND	MG-LF	MG-LF	MADE GROUND	MG-LF	MADE GROUND	MADE GROUND	MG-LF	MG-LF	MG-LF	MADE GROUND	MG-LF	MG-LF	MG-LF	MG-LF	MADE GROUND	MG-LF	MADE GROUND	
					Sample Ref	1	3	1	4	5	3	6	1	3	5	2	5	1	6	2	4	5	2	4	1	
Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	
103-33-3	Azobenzene	SOLID - INITIAL	0.38	mg/kg	ug/kg								<100			<200	<100	<200						<100		
106-47-8	4-Chloroaniline	SOLID - INITIAL	0.01	mg/kg	ug/kg								<100			<200	<100	<200						<100		
700-57-23	4-Chlorophenylphenylether	SOLID - INITIAL	#N/A	mg/kg	ug/kg								<100			<200	<100	<200						<100		
88-74-4	2-Nitroaniline	SOLID - INITIAL	0.01	mg/kg	ug/kg								<100			<200	<100	<200						<100		
99-09-2	3-Nitroaniline	SOLID - INITIAL	#N/A	mg/kg	ug/kg								<100			<200	<100	<200						<100		
994-05-8	Tertiary Amyl Methyl Ether	SOLID - INITIAL	#N/A	mg/kg	ug/kg								<100			<200	<100	<200						<200		
1336-36-6	PCB Total (WAC only)	SOLID	#N/A	mg/kg	mg/kg																					
P1330	BTEX (total) WAC	SOLID	#N/A	mg/kg	mg/kg																					

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Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	AEC18-LF-TP246	AEC18-LF-TP246	AEC18-LF-TP247	AEC18-LF-TP247	AEC18-LF-TP247	AEC18-LF-TP248	AEC18-LF-TP248	AEC18-LF-TP249	AEC18-LF-TP249	AEC18-LF-TP250	AEC18-LF-TP250	AEC18-LF-TP250	AEC18-LF-TP251	AEC18-LF-TP251	AEC18-LF-TP252	AEC18-LF-TP252	AEC18-LF-TP253	AEC18-LF-TP256	AEC18-LF-TP256	AEC18-LF-TP256	
						ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
100-41-4	Ethylbenzene	SOLID - INITIAL	0.53	mg/kg	mg/kg																					
108-88-3	Toluene	SOLID - INITIAL	0.88	mg/kg	mg/kg																					
120-12-7	Anthracene	SOLID - INITIAL	0.16	mg/kg	mg/kg																					
129-00-0	Pyrene	SOLID - INITIAL	1.88	mg/kg	mg/kg																					
1330-20-7	Xylene	SOLID - INITIAL	0.23	mg/kg	mg/kg																					
191-24-2	Benzo(g,h,i)perylene	SOLID - INITIAL	2.42	mg/kg	mg/kg																					
193-39-5	Indeno(1,2,3-cd)pyrene	SOLID - INITIAL	0.51	mg/kg	mg/kg																					
205-99-2	Benzo(b)fluoranthene	SOLID - INITIAL	0.61	mg/kg	mg/kg																					
206-44-0	Fluoranthene	SOLID - INITIAL	0.01	mg/kg	mg/kg																					
207-08-9	Benzo(k)fluoranthene	SOLID - INITIAL	0.86	mg/kg	mg/kg																					
208-96-8	Acenaphthylene	SOLID - INITIAL	1.01	mg/kg	mg/kg																					
218-01-9	Chrysene	SOLID - INITIAL	6.38	mg/kg	mg/kg																					
50-32-8	Benzo(a)pyrene	SOLID - INITIAL	0.07	mg/kg	mg/kg																					
53-70-3	Dibenzo(a,h)anthracene	SOLID - INITIAL	10.80	mg/kg	mg/kg																					
56-55-3	Benzo(a)anthracene	SOLID - INITIAL	4.50	mg/kg	mg/kg																					
57-12-5	Cyanide	SOLID - INITIAL	0.26	mg/kg	mg/kg	<1	<1	<1	<1	<1	9.8	<1	<1	<1	<1	2.3	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
71-43-2	Benzene	SOLID - INITIAL	0.0043	mg/kg	mg/kg																					
7439-92-1	Lead	SOLID - INITIAL	10.00	mg/kg	mg/kg	91.6	114.0	25.1	31.9	62.5	106.0	206.0	25.9	99.4	24.4	129.0	0.0	18.5	0.0	23.4	57.1	6.1	44.5	67.2	59.8	
7439-97-6	Mercury	SOLID - INITIAL	0.50	mg/kg	mg/kg	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	0.5	<0.0001	<0.14	<0.0001	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14
7440-02-0	Nickel	SOLID - INITIAL	10.01	mg/kg	mg/kg	27.4	17.7	21.0	37.5	37.4	295.0	38.2	13.9	24.0	53.4	23.6	0.1	19.3	0.3	21.4	30.8	6.1	12.5	26.9	19.4	
7440-36-0	Antimony	SOLID - INITIAL	1.26	mg/kg	mg/kg	<0.6	2.1	<0.6	<0.6	0.6	10.8	<0.6	<0.6	1.3	<0.6	9.7	0.2	<0.6	0.3	<0.6	<0.6	<0.6	<0.6	0.8	2.5	
7440-38-2	Arsenic	SOLID - INITIAL	5.00	mg/kg	mg/kg	16.0	12.2	14.8	22.6	13.2	11.7	19.2	7.9	27.7	16.1	19.3	0.0	12.7	0.1	12.7	14.3	7.5	10.0	13.5	8.8	
7440-41-7	Beryllium	SOLID - INITIAL	5.04	mg/kg	mg/kg	1.2	0.5	1.0	1.0	1.2	0.7	0.8	2.7	1.1	2.1	0.8	<0.001	0.9	<0.001	0.9	1.1	0.4	0.6	1.1	0.7	
7440-42-8	Boron	SOLID - INITIAL	8.69	mg/kg	mg/kg	1.5	3.1	<1	<1	1.0	3.9	1.7	1.3	2.1	31.7	22.0	22.8	<1	2.4	<1	1.2	1.0	<1	<1	1.8	
7440-43-9	Cadmium	SOLID - INITIAL	0.50	mg/kg	mg/kg	0.2	1.2	0.2	0.4	0.3	1.1	<0.02	0.3	0.5	0.6	1.0	<0.0008	0.3	0.0	0.1	0.3	0.1	0.1	0.3	1.2	
7440-47-3	Chromium	SOLID - INITIAL	315.49	mg/kg	mg/kg	34.1	10.8	25.5	10.2	18.2	149.0	13.7	13.8	26.9	32.3	14.1	0.1	30.8	0.1	17.4	15.5	7.8	17.1	20.6	17.1	
7440-50-8	Copper	SOLID - INITIAL	1002.92	mg/kg	mg/kg	23.4	36.8	16.7	18.4	23.1	97.2	19.8	19.3	30.8	30.1	82.1	0.1	16.7	0.2	15.5	29.4	4.4	19.4	25.7	25.0	
7440-62-2	Vanadium	SOLID - INITIAL	1.01	mg/kg	mg/kg	63.0	24.2	52.4	41.9	44.0	29.9	36.9	40.7	36.6	57.5	17.9	0.0	61.7	0.2	43.9	44.3	14.4	57.0	41.6	27.7	
7440-66-6	Zinc	SOLID - INITIAL	2507.30	mg/kg	mg/kg	80.8	147.0	85.8	104.0	147.0	447.0	142.0	73.1	177.0	154.0	575.0	0.1	44.4	0.4	51.5	129.0	28.5	63.6	131.0	200.0	
7782-49-2	Selenium	SOLID - INITIAL	0.50	mg/kg	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.2	<1	<0.01	<1	<0.01	<1	<1	<1	<1	<1	<1	
83-32-9	Acenaphthene	SOLID - INITIAL	965.39	mg/kg	mg/kg																					
85-01-8	Phenanthrene	SOLID - INITIAL	3.35	mg/kg	mg/kg																					
86-73-7	Fluorene	SOLID - INITIAL	1.76	mg/kg	mg/kg																					
91-20-3	Napthalene	SOLID - INITIAL	0.08	mg/kg	mg/kg																					
P1186	Phenol	SOLID - INITIAL	0.04	mg/kg	mg/kg	<0.035	<0.035	<0.035	<0.035	<0.035	1.6	0.1	<0.035	<0.035	<0.035	<0.035	0.3	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	
P1310	Pah, Total	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
P1334	pH	SOLID - INITIAL	#N/A	mg/kg	pH Units	8.2	7.9	8.1	8.5	8.1	8.2	8.1	9.2	8.6	8.0	7.9	7.8	7.7	7.6	8.2	8.2	9.0	10.9	8.0	7.9	
P1355	TPH Aromatic >C7-C8	SOLID - INITIAL	10.42	mg/kg	mg/kg																					
P1356	TPH Aromatic >C8-C10	SOLID - INITIAL	219.16	mg/kg	mg/kg																					
P1357	TPH Aromatic >C10-C12	SOLID - INITIAL	16.54	mg/kg	mg/kg																					
P1358	TPH Aromatic >C12-C16	SOLID - INITIAL	32.96	mg/kg	mg/kg																					
P1359	TPH Aromatic >C16-C21	SOLID - INITIAL	82.76	mg/kg	mg/kg																					
P1360	TPH Aromatic >C21-C35	SOLID - INITIAL	657.18	mg/kg	mg/kg																					
P1407	TPH Aliphatic >C5-6	SOLID - INITIAL	654.68	mg/kg	mg/kg																					
P1408	TPH Aliphatic >C6-8	SOLID - INITIAL	2946.18	mg/kg	mg/kg																					
P1409	TPH Aliphatic >C8-10	SOLID - INITIAL	558.25	mg/kg	mg/kg																					
P1410	TPH Aliphatic >C10-12	SOLID - INITIAL	5510.38	mg/kg	mg/kg																					
P1411	TPH Aliphatic >C12-16	SOLID - INITIAL	87214.59	mg/kg	mg/kg																					
P1412	TPH Aliphatic >C16-21	SOLID - INITIAL	6927070.30	mg/kg	mg/kg																					
P1413	TPH Aliphatic >C21-35	SOLID - INITIAL	6927070.30	mg/kg	mg/kg																					
P1441	TPH Aromatic >C6-C7	SOLID - INITIAL	0.05	mg/kg	mg/kg																					
100-01-6	4-Nitroaniline	SOLID - INITIAL	0.00	mg/kg	mg/kg																					
100-02-7	4-Nitrophenol	SOLID - INITIAL	0.04	mg/kg	mg/kg																					
100-25-4	p-Dinitrobenzene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
100-42-5	Styrene	SOLID - INITIAL	1.04	mg/kg	mg/kg																					
100-51-6	Benzyl Alcohol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
10061-01-5	cis-1,3-Dichloropropene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
10061-02-6	trans-1,3-Dichloropropene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
101-55-3	4-Bromophenyl Phenyl Ether	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
103-33-3	Azobenzene	SOLID - INITIAL	0.38																							

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Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	AEC18-LF-TP246	AEC18-LF-TP246	AEC18-LF-TP247	AEC18-LF-TP247	AEC18-LF-TP247	AEC18-LF-TP248	AEC18-LF-TP248	AEC18-LF-TP249	AEC18-LF-TP249	AEC18-LF-TP250	AEC18-LF-TP250	AEC18-LF-TP250	AEC18-LF-TP251	AEC18-LF-TP251	AEC18-LF-TP252	AEC18-LF-TP252	AEC18-LF-TP253	AEC18-LF-TP256	AEC18-LF-TP256	AEC18-LF-TP256	
						ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
98-06-6	Tert-Butylbenzene	SOLID - INITIAL	0.75	mg/kg	mg/kg																					
98-82-8	Isopropylbenzene	SOLID - INITIAL	0.27	mg/kg	mg/kg																					
99-09-2	3-Nitroaniline	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
99-65-0	M-Dinitrobenzene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
99-87-6	4-Isopropyltoluene	SOLID - INITIAL	54.06	mg/kg	mg/kg																					
P1374	xylene	SOLID - INITIAL	0.23	mg/kg	mg/kg																					
18540-29-9	chromium hexavalent	SOLID - INITIAL	0.02	mg/kg	mg/kg	<0.6											<0.3		<0.3							<0.6
P1095	Cyanide Free	SOLID - INITIAL	#N/A	mg/kg	mg/kg						<1					<1	<0.5		<0.5							
P1239	Complex Cyanide	SOLID - INITIAL	0.26	mg/kg	mg/kg						3.7					3.1	<0.5		<0.5							
31508-00-6	PCB-118 2,3,4,4,5 - Pentachlorobiphenyl	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
32598-13-3	PCB 77	SOLID - INITIAL	6185.41	mg/kg	mg/kg																					
32598-14-4	PCB 105	SOLID - INITIAL	8940.63	mg/kg	mg/kg																					
32774-16-6	PCB 169	SOLID - INITIAL	37270.75	mg/kg	mg/kg																					
38380-08-4	PCB-156 2,3,3,4,4,5 - Hexachlorobiphenyl	SOLID - INITIAL	3172.26	mg/kg	mg/kg																					
39635-31-9	PCB 189	SOLID - INITIAL	270002.64	mg/kg	mg/kg																					
52663-72-6	PCB 167	SOLID - INITIAL	45853.03	mg/kg	mg/kg																					
57465-28-8	PCB 126	SOLID - INITIAL	8940.63	mg/kg	mg/kg																					
65510-44-3	PCB 123	SOLID - INITIAL	8940.63	mg/kg	mg/kg																					
69782-90-7	PCB 157	SOLID - INITIAL	45853.03	mg/kg	mg/kg																					
70362-50-4	PCB 81	SOLID - INITIAL	8940.63	mg/kg	mg/kg																					
74472-37-0	PCB 114	SOLID - INITIAL	8940.63	mg/kg	mg/kg																					
100-02-7	4-Nitrophenol	SOLID	0.04	ug/kg	ug/kg	<100	<100		<100	<100	<100									<100						<200
100-41-4	Ethylbenzene	SOLID	0.53	mg/kg	ug/kg	<4	<4	<4	<4	<4	41.5	<4	<4	<40		<80	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
100-42-5	Styrene	SOLID	1.04	mg/kg	ug/kg	<10	<10		<10	<10	<10										<10					<10
10061-01-5	cis 1,3-Dichloropropene	SOLID	#N/A	mg/kg	ug/kg	<10	<10		<10	<10	<10										<10					<10
10061-02-6	trans 1,3-Dichloropropene	SOLID	#N/A	mg/kg	ug/kg	<10	<10		<10	<10	<10										<10					<10
103-65-1	Propylbenzene	SOLID	0.28	mg/kg	ug/kg	<10	<10		<10	<10	20.3										<10					<10
104-51-8	n-Butylbenzene	SOLID	1.39	mg/kg	ug/kg	<11	<11		<11	<11	54.1										<11					<11
105-67-9	2,4-Dimethylphenol	SOLID	1.18	mg/kg	ug/kg	<100	<100		<100	<100	562.0										<100					<200
106-43-4	4-Chlorotoluene	SOLID	#N/A	mg/kg	ug/kg	<10	<10		<10	<10	<10										<10					<10
106-44-5	4-Methylphenol	SOLID	0.53	mg/kg	ug/kg	<100	<100		<100	<100	<100										<100					<200
106-46-7	1,4-Dichlorobenzene	SOLID	48.01	mg/kg	ug/kg	<100	<100		<100	<100	<100										<100					<200
106-93-4	1,2-Dibromoethane	SOLID	#N/A	mg/kg	ug/kg	<10	<10		<10	<10	<10										<10					<10
107-06-2	1,2-Dichloroethane	SOLID	#N/A	mg/kg	ug/kg	<5	<5		<5	<5	<5										<5					<5
108-67-8	1,3,5-Trimethylbenzene	SOLID	0.15	mg/kg	ug/kg	<8	<8		<8	<8	178.0										<8					<8
108-86-1	Bromobenzene	SOLID	#N/A	mg/kg	ug/kg	<10	<10		<10	<10	<10										<10					<10
108-88-3	Toluene	SOLID	0.88	mg/kg	ug/kg	<7	<7	<7	<7	<7	<7	<7	<7	<70		<140	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7
108-90-7	Chlorobenzene	SOLID	4.46	mg/kg	ug/kg	<5	<5		<5	<5	<5										<5					<5
108-95-2	Phenol	SOLID	0.04	mg/kg	ug/kg	<100	<100		<100	<100	<100										<100					<200
111-44-4	Bis(2-chloroethyl)ether	SOLID	#N/A	mg/kg	ug/kg	<100	<100		<100	<100	<100										<100					<200
111-91-1	Bis(2-chloroethoxy)methane	SOLID	0.01	mg/kg	ug/kg	<100	<100		<100	<100	<100										<100					<200
117-81-7	Bis(2-ethylhexyl)phthalate	SOLID	18472.17	mg/kg	ug/kg	<100	<100		<100	<100	<100										<100					<200
117-84-0	n-Dioctylphthalate	SOLID	146035.35	mg/kg	ug/kg	<100	<100		<100	<100	<100										<100					<200
118-74-1	Hexachlorobenzene	SOLID	0.23	mg/kg	ug/kg	<100	<100		<100	<100	<100										<100					<200
120-82-1	1,2,4-Trichlorobenzene	SOLID	1.81	mg/kg	ug/kg	<100	<100		<100	<100	<100										<100					<20
120-83-2	2,4-Dichlorophenol	SOLID	0.28	mg/kg	ug/kg	<100	<100		<100	<100	<100										<100					<200
121-14-2	2,4-Dinitrotoluene	SOLID	0.00	mg/kg	ug/kg	<100	<100		<100	<100	<100										<100					<200
124-48-1	Dibromochloromethane	SOLID	#N/A	mg/kg	ug/kg	<10	<10		<10	<10	<10										<10					<10
127-18-4	Tetrachloroethene	SOLID	1.46	mg/kg	ug/kg	<5	<5		<5	<5	<5										<5					<5
131-11-3	Dimethyl phthalate	SOLID	#N/A	mg/kg	ug/kg	<100	<100		<100	<100	<100										<100					<200
132-64-9	Dibenzofuran	SOLID	0.49	mg/kg	ug/kg	<100	139.0		621.0	<100	628.0										173.0					<200
135-98-8	sec-Butylbenzene	SOLID	1.39	mg/kg	ug/kg	<10	<10		<10	<10	19.9										<10					<10
142-28-9	1,3-Dichloropropane	SOLID	#N/A	mg/kg	ug/kg	<7	<7		<7	<7	<7										<7					<7
156-59-2	cis 1,2-Dichloroethene	SOLID	0.31	mg/kg	ug/kg	<6	<6		<6	<6	<6										<6					<6
156-60-5	trans 1,2-Dichloroethene	SOLID	#N/A	mg/kg	ug/kg	<10	<10		<10	<10	<10										<10					<10
198-55-0	Perylene	SOLID	206.28	mg/kg	ug/kg																<10					<10
39638-32-9	Bis(2-chloroisopropyl)ether	SOLID	#N/A	mg/kg	ug/kg	<100	<100		<100	<100	<100										<100					<200
541-73-1	1,3-Dichlorobenzene	SOLID	145.60	mg/kg	ug/kg	<100	<100		<100	<100	<100										<100					<200
56-23-5	Carbon Tetrachloride	SOLID	#N/A	mg/kg	ug/kg	<10</																				

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Hole Ref	AEC18-LF-TP246	AEC18-LF-TP246	AEC18-LF-TP247	AEC18-LF-TP247	AEC18-LF-TP247	AEC18-LF-TP248	AEC18-LF-TP248	AEC18-LF-TP249	AEC18-LF-TP249	AEC18-LF-TP250	AEC18-LF-TP250	AEC18-LF-TP250	AEC18-LF-TP251	AEC18-LF-TP251	AEC18-LF-TP252	AEC18-LF-TP252	AEC18-LF-TP253	AEC18-LF-TP256	AEC18-LF-TP256	AEC18-LF-TP256	
Sample Top	2.50	4.30	1.10	3.10	4.10	1.50	4.50	1.30	3.70	0.90	3.00	4.10	1.30	4.00	0.30	4.10	0.40	0.20	2.60	4.40	
Lookup soil	MADE GROUND	MG-LF	MADE GROUND	MG-LF	MG-LF	MG-LF	MG-LF	MADE GROUND	MG-LF	MADE GROUND	MG-LF	MG-LF	MADE GROUND	MG-LF	MADE GROUND	MG-LF	MADE GROUND	MADE GROUND	MADE GROUND	MADE GROUND	MG-LF
Sample Ref	3	5	2	4	5	2	5	2	4	2	4	5	2	5	2	6		1	4	6	

Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	AEC18-LF-TP246	AEC18-LF-TP246	AEC18-LF-TP247	AEC18-LF-TP247	AEC18-LF-TP247	AEC18-LF-TP248	AEC18-LF-TP248	AEC18-LF-TP249	AEC18-LF-TP249	AEC18-LF-TP250	AEC18-LF-TP250	AEC18-LF-TP250	AEC18-LF-TP251	AEC18-LF-TP251	AEC18-LF-TP252	AEC18-LF-TP252	AEC18-LF-TP253	AEC18-LF-TP256	AEC18-LF-TP256	AEC18-LF-TP256	
1610-18-0	Prometon SUBCON Alcontrol	SOLID	#/N/A	mg/kg	ug/kg																					
16118-49-3	Carbetamide	SOLID	#/N/A	mg/kg	mg/kg																					
1689-83-4	Ioxynil	SOLID	#/N/A	mg/kg	mg/kg																					<0.01
1689-84-5	Bromoxynil	SOLID	#/N/A	mg/kg	mg/kg																					<0.01
1702-17-6	Clopyralid	SOLID	#/N/A	mg/kg	mg/kg																					
1746-81-2	Monolinuron	SOLID	#/N/A	mg/kg	mg/kg																					
18691-97-9	Methabenzthiazuron	SOLID	#/N/A	mg/kg	mg/kg																					
1897-45-6	Chlorothalonil	SOLID	#/N/A	mg/kg	ug/kg																					<500
1912-24-9	Atrazine SUBCON Alcontrol	SOLID	#/N/A	mg/kg	ug/kg																					
1918-00-9	Dicamba	SOLID	#/N/A	mg/kg	mg/kg																					<0.01
6607	Picloram	SOLID	#/N/A	mg/kg	mg/kg																					
1967-16-4	Chlorbufam	SOLID	#/N/A	mg/kg	mg/kg																					
1982-47-4	Chloroxuron	SOLID	#/N/A	mg/kg	mg/kg																					
19937-59-8	Metoxuron	SOLID	#/N/A	mg/kg	mg/kg																					
2132-70-9	p,p-Methoxychlor	SOLID	#/N/A	mg/kg	ug/kg																					
2274-67-1	Chlorpyrifos-methyl	SOLID	#/N/A	mg/kg	ug/kg																					<500
2303-17-5	Triallate	SOLID	#/N/A	mg/kg	ug/kg																					<500
2310-17-0	Phosalone	SOLID	#/N/A	mg/kg	ug/kg																					<500
23103-98-2	Pirimicarb	SOLID	#/N/A	mg/kg	mg/kg																					
24017-47-8	Triazophos	SOLID	#/N/A	mg/kg	ug/kg																					<500
25057-89-0	Bentazone	SOLID	#/N/A	mg/kg	mg/kg																					<0.01
2642-71-9	Azinphos-ethyl	SOLID	#/N/A	mg/kg	ug/kg																					<500
2921-88-2	Chlorpyrifos	SOLID	#/N/A	mg/kg	ug/kg																					<500
29232-93-7	Pirimiphos Methyl	SOLID	#/N/A	mg/kg	ug/kg																					<500
297-78-9	Telodrin	SOLID	#/N/A	mg/kg	ug/kg																					<500
298-00-0	Methyl Parathion	SOLID	#/N/A	mg/kg	ug/kg																					<500
298-01-1	Mevinphos	SOLID	#/N/A	mg/kg	ug/kg																					<500
298-04-4	Disulfoton SUBCON OCP Alcontrol	SOLID	#/N/A	mg/kg	ug/kg																					<500
29973-13-5	Ethiofencarb	SOLID	#/N/A	mg/kg	mg/kg																					
30667-99-3	o,p-Methoxychlor	SOLID	#/N/A	mg/kg	ug/kg																					<500
309-00-2	Aldrin SUBCON Alcontrol	SOLID	#/N/A	mg/kg	ug/kg																					<500
31218-83-4	Propetamphos	SOLID	#/N/A	mg/kg	ug/kg																					<500
314-40-9	Bromacil	SOLID	#/N/A	mg/kg	mg/kg																					
319-84-6	alpha-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	SOLID	#/N/A	mg/kg	ug/kg																					<500
	beta-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	SOLID	#/N/A	mg/kg	ug/kg																					<500
319-85-7		SOLID	#/N/A	mg/kg	ug/kg																					
330-54-1	Diuron SUBCON RPS MH	SOLID	#/N/A	mg/kg	mg/kg																					
330-55-2	Linuron	SOLID	#/N/A	mg/kg	mg/kg																					
33213-65-9	Endosulphan II	SOLID	#/N/A	mg/kg	ug/kg																					<500
333-41-5	Diazinon	SOLID	#/N/A	mg/kg	ug/kg																					<500
34123-59-6	Isoproturon	SOLID	#/N/A	mg/kg	mg/kg																					
34205-21-5	Dimefuron	SOLID	#/N/A	mg/kg	mg/kg																					
3424-82-6	o,p-DDE	SOLID	#/N/A	mg/kg	ug/kg																					<500
35367-38-5	Diflufenzuron	SOLID	#/N/A	mg/kg	mg/kg																					
698836	Benazolin	SOLID	#/N/A	mg/kg	mg/kg																					
38260-54-7	Etrimpfos	SOLID	#/N/A	mg/kg	ug/kg																					<500
40483-25-2	Diclofop	SOLID	#/N/A	mg/kg	mg/kg																					<0.01
40487-42-1	Pendimethalin	SOLID	#/N/A	mg/kg	ug/kg																					<500
43121-43-3	Triadimefon	SOLID	#/N/A	mg/kg	ug/kg																					<500
465-73-6	Isodrin	SOLID	#/N/A	mg/kg	ug/kg																					<500
470-90-6	Chlorfenvinphos	SOLID	#/N/A	mg/kg	ug/kg																					<500
50-29-3	p,p-DDT SUBCON Alcontrol	SOLID	#/N/A	mg/kg	ug/kg																					<500
50-31-7	2,3,6-TBA	SOLID	#/N/A	mg/kg	mg/kg																					
5103-71-9	cis-Chlordane SUBCON Alcontrol	SOLID	#/N/A	mg/kg	ug/kg																					<500
5103-74-2	trans-Chlordane SUBCON Alcontrol	SOLID	#/N/A	mg/kg	ug/kg																					<500
51630-58-1	Fenvalerate SUBCON RPS MH	SOLID	#/N/A	mg/kg	mg/kg																					
52315-07-8	Cypermethrin SUBCON RPS MH	SOLID	#/N/A	mg/kg	mg/kg																					
52645-53-1	Permethrin SUBCON RPS MH Pyrethroids	SOLID	#/N/A	mg/kg	mg/kg																					
52756-22-6	Flamprop-isopropyl	SOLID	#/N/A	mg/kg	mg/kg																					
52918-63-5	Deltamethrin SUBCON RPS MH	SOLID	#/N/A	mg/kg	mg/kg																					
53-19-0	o,p-TDE (DDD)	SOLID	#/N/A	mg/kg	ug/kg																					<500
55335-06-3	Triclopyr	SOLID	#/N/A	mg/kg	mg/kg																					<0.01
55-38-9	Fenthion	SOLID	#/N/A	mg/kg	ug/kg																					<500
563-12-2	Ethion	SOLID	#/N/A	mg/kg	ug/kg																					<500
56-38-2	Parathion (Ethyl Parathion)	SOLID	#/N/A	mg/kg	ug/kg																					<500
58667-63-3	Fiamprop	SOLID	#/N/A	mg/kg	mg/kg																					

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					Hole Ref	AEC18-LF-TP246	AEC18-LF-TP246	AEC18-LF-TP247	AEC18-LF-TP247	AEC18-LF-TP247	AEC18-LF-TP248	AEC18-LF-TP248	AEC18-LF-TP249	AEC18-LF-TP249	AEC18-LF-TP250	AEC18-LF-TP250	AEC18-LF-TP250	AEC18-LF-TP251	AEC18-LF-TP251	AEC18-LF-TP252	AEC18-LF-TP252	AEC18-LF-TP253	AEC18-LF-TP256	AEC18-LF-TP256	AEC18-LF-TP256	
					Sample Top	2.50	4.30	1.10	3.10	4.10	1.50	4.50	1.30	3.70	0.90	3.00	4.10	1.30	4.00	0.30	4.10	0.40	0.20	2.60	4.40	
					Lookup soil	MADE GROUND	MG-LF	MADE GROUND	MG-LF	MG-LF	MG-LF	MG-LF	MADE GROUND	MG-LF	MADE GROUND	MG-LF	MG-LF	MADE GROUND	MG-LF	MADE GROUND	MG-LF	MADE GROUND	MADE GROUND	MADE GROUND	MADE GROUND	MG-LF
					Sample Ref	3	5	2	4	5	2	5	2	4	2	4	5	2	5	2	6		1	4	6	
Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	
103-33-3	Azobenzene	SOLID - INITIAL	0.38	mg/kg	ug/kg	<100	<100		<100	<100	<100									<100		<200				
106-47-8	4-Chloroaniline	SOLID - INITIAL	0.01	mg/kg	ug/kg	<100	<100		<100	<100	<100									<100		<200				
700-57-23	4-Chlorophenylphenylether	SOLID - INITIAL	#N/A	mg/kg	ug/kg	<100	<100		<100	<100	<100									<100		<200				
88-74-4	2-Nitroaniline	SOLID - INITIAL	0.01	mg/kg	ug/kg	<100	<100		<100	<100	<100									<100		<200				
99-09-2	3-Nitroaniline	SOLID - INITIAL	#N/A	mg/kg	ug/kg	<100	<100		<100	<100	<100									<100		<200				
994-05-8	Tertiary Amyl Methyl Ether	SOLID - INITIAL	#N/A	mg/kg	ug/kg	<10	<10		<10	<10	<10									<10		<10				
1336-36-6	PCB Total (WAC only)	SOLID	#N/A	mg/kg	mg/kg																					
P1330	BTEX (total) WAC	SOLID	#N/A	mg/kg	mg/kg																					

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Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	AEC18-LF-TP257	AEC18-LF-TP257	AEC18-LF-TP257	AEC18-LF-TP258	AEC18-LF-TP258	AEC18-LF-TP259	AEC18-LF-TP259	AEC18-LF-TP260	AEC18-LF-TP260	AEC18-LF-TP260	AEC18-LF-TP261	AEC18-LF-TP261	AEC18-LF-TP262	AEC18-LF-TP262	AEC18-LF-TP263	AEC18-LF-TP263	AEC18-LF-TP263	AEC18-LF-TP264	AEC18-LF-TP264	AEC18-LF-TP264
						ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
108-67-8	1,3,5-Trimethylbenzene	SOLID - INITIAL	0.15	mg/kg	mg/kg																				
108-86-1	Bromobenzene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
108-90-7	Chlorobenzene	SOLID - INITIAL	4.46	mg/kg	mg/kg																				
108-95-2	Phenol	SOLID - INITIAL	0.04	mg/kg	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.0	0.1	<0.01	<0.01	<0.01
111-91-1	Bis(2-chloroethoxy)methane	SOLID - INITIAL	0.01	mg/kg	mg/kg																				
117-81-7	Bis(2-ethylhexyl)phthalate	SOLID - INITIAL	18472.17	mg/kg	mg/kg																				
117-84-0	Di-N-Octyl Phthalate	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
118-74-1	Hexachlorobenzene (HCB)	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
120-82-1	1,2,4-Trichlorobenzene	SOLID - INITIAL	1.81	mg/kg	mg/kg																				
120-83-2	2,4-Dichlorophenol	SOLID - INITIAL	0.28	mg/kg	mg/kg																				
121-14-2	2,4-Dinitrotoluene	SOLID - INITIAL	0.00	mg/kg	mg/kg																				
122-39-4	Diphenylamine	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
124-48-1	Dibromochloromethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
127-18-4	Tetrachloroethene	SOLID - INITIAL	1.46	mg/kg	mg/kg																				
131-11-3	Dimethylphthalate	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
132-64-9	Dibenzofuran	SOLID - INITIAL	0.49	mg/kg	mg/kg																				
135-98-8	Sec-Butylbenzene	SOLID - INITIAL	1.39	mg/kg	mg/kg																				
142-28-9	1,3-Dichloropropane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
156-59-2	cis-1,2-Dichloroethene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
156-60-5	trans-1,2-Dichloroethene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
1634-04-4	Methyl tert-butyl ether (MTBE)	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
39638-32-9	Bis(2-chloroisopropyl)ether	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
528-29-0	O-Dinitrobenzene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
534-52-1	2-Methyl-4,6-Dinitrophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
541-73-1	1,3-Dichlorobenzene	SOLID - INITIAL	145.60	mg/kg	mg/kg																				
56-23-5	Tetrachloromethane (Carbon Tetra Chloride)	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
563-58-6	1,1-Dichloropropene	SOLID - INITIAL	0.41	mg/kg	mg/kg																				
58-90-2	2,3,4,6-Tetrachlorophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
594-20-7	2,2-Dichloropropane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
59-50-7	4-Chloro-3-Methylphenol	SOLID - INITIAL	2.93	mg/kg	mg/kg																				
606-20-2	2,6-Dinitrotoluene	SOLID - INITIAL	1.48	mg/kg	mg/kg																				
62-53-3	Aniline	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
630-20-6	1,1,1,2-Tetrachloroethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
67-66-3	Chloroform	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
700-57-23	4-Chlorophenyl Phenyl Ether	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
71-55-6	1,1,1-Trichloroethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
74-95-3	Dibromomethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
74-97-5	Bromochloromethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
75-01-4	Chloroethene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
75-25-2	Tribromomethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
75-27-4	Bromodichloromethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
75-34-3	1,1-Dichloroethane	SOLID - INITIAL	0.01	mg/kg	mg/kg																				
75-35-4	1,1-Dichloroethene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
77-47-4	Hexachlorocyclopentadiene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
78-87-5	1,2-Dichloropropane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
79-00-5	1,1,2-Trichloroethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
79-01-6	Trichloroethene	SOLID - INITIAL	0.09	mg/kg	mg/kg																				
84-66-2	Diethylphthalate	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
84-74-2	Di-N-Butyl Phthalate	SOLID - INITIAL	0.52	mg/kg	mg/kg																				
85-68-7	Butylbenzylphthalate	SOLID - INITIAL	23.36	mg/kg	mg/kg																				
86-74-8	Carbazole	SOLID - INITIAL	0.01	mg/kg	mg/kg																				
87-61-6	1,2,3 Trichlorobenzene	SOLID - INITIAL	0.26	mg/kg	mg/kg																				
87-68-3	Hexachlorobutadiene (HCBd)	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
87-86-5	Pentachlorophenol (PCP)	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
88-06-2	2,4,6-Trichlorophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
88-74-4	2-Nitroaniline	SOLID - INITIAL	0.01	mg/kg	mg/kg																				
91-57-6	2-Methylnaphthalene	SOLID - INITIAL	0.84	mg/kg	mg/kg																				
91-58-7	2-Chloronaphthalene	SOLID - INITIAL	0.92	mg/kg	mg/kg																				
935-95-5	2,3,5,6-Tetrachlorophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
95-47-6	Xylene	SOLID - INITIAL	0.23	mg/kg	mg/kg																				
95-48-7	2-Methylphenol	SOLID - INITIAL	0.54	mg/kg	mg/kg																				
95-49-8	2-Chlorotoluene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
95-50-1	1,2-Dichlorobenzene	SOLID - INITIAL	40.42	mg/kg	mg/kg																				
95-57-8	2-Chlorophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
95-63-6	1,2,4-Trimethylbenzene	SOLID - INITIAL	0.25	mg/kg	mg/kg																				
95-95-4	2,4,5-Trichlorophenol	SOLID - INITIAL	60.93	mg/kg	mg/kg																				
96-12-8	1,2-Dibromo-3-Chloropropane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
96-18-4	1,2,3-Trichloropropane	SOLID - INITIAL	0.44	mg/kg	mg/kg																				

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Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	AEC18-LF-TP257	AEC18-LF-TP257	AEC18-LF-TP257	AEC18-LF-TP258	AEC18-LF-TP258	AEC18-LF-TP259	AEC18-LF-TP259	AEC18-LF-TP260	AEC18-LF-TP260	AEC18-LF-TP260	AEC18-LF-TP261	AEC18-LF-TP261	AEC18-LF-TP262	AEC18-LF-TP262	AEC18-LF-TP263	AEC18-LF-TP263	AEC18-LF-TP264	AEC18-LF-TP264	AEC18-LF-TP264	
						ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
98-06-6	Tert-Butylbenzene	SOLID - INITIAL	0.75	mg/kg	mg/kg																				
98-82-8	Isopropylbenzene	SOLID - INITIAL	0.27	mg/kg	mg/kg																				
99-09-2	3-Nitroaniline	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
99-65-0	M-Dinitrobenzene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
99-87-6	4-Isopropyltoluene	SOLID - INITIAL	54.06	mg/kg	mg/kg																				
P1374	xylene	SOLID - INITIAL	0.23	mg/kg	mg/kg																				
18540-29-9	chromium hexavalent	SOLID - INITIAL	0.02	mg/kg	mg/kg		<0.6					<0.6		<0.6		<0.3				<0.3			<0.6	<0.6	
P1095	Cyanide Free	SOLID - INITIAL	#N/A	mg/kg	mg/kg											<0.5				<0.5					
P1239	Complex Cyanide	SOLID - INITIAL	0.26	mg/kg	mg/kg											<0.5				<0.5					
31508-00-6	PCB-118 2,3,4,4,5 - Pentachlorobiphenyl	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
32598-13-3	PCB 77	SOLID - INITIAL	6185.41	mg/kg	mg/kg																				
32598-14-4	PCB 105	SOLID - INITIAL	8940.63	mg/kg	mg/kg																				
32774-16-6	PCB 169	SOLID - INITIAL	37270.75	mg/kg	mg/kg																				
38380-08-4	PCB-156 2,3,3,4,4,5 - Hexachlorobiphenyl	SOLID - INITIAL	3172.26	mg/kg	mg/kg																				
39635-31-9	PCB 189	SOLID - INITIAL	270002.64	mg/kg	mg/kg																				
52663-72-6	PCB 167	SOLID - INITIAL	45853.03	mg/kg	mg/kg																				
57465-28-8	PCB 126	SOLID - INITIAL	8940.63	mg/kg	mg/kg																				
65510-44-3	PCB 123	SOLID - INITIAL	8940.63	mg/kg	mg/kg																				
69782-90-7	PCB 157	SOLID - INITIAL	45853.03	mg/kg	mg/kg																				
70362-50-4	PCB 81	SOLID - INITIAL	8940.63	mg/kg	mg/kg																				
74472-37-0	PCB 114	SOLID - INITIAL	8940.63	mg/kg	mg/kg																				
100-02-7	4-Nitrophenol	SOLID	0.04	ug/kg	ug/kg		<100	<100				<100		<100		<100				<100			<200	<100	<100
100-41-4	Ethylbenzene	SOLID	0.53	mg/kg	ug/kg		<4	<4	<80		<4	<4	<4		<4		15.6		193.0	<4	324.0	17.3	<4	<4	<4
100-42-5	Styrene	SOLID	1.04	mg/kg	ug/kg				<200																
10061-01-5	cis 1,3-Dichloropropene	SOLID	#N/A	mg/kg	ug/kg				<200																
10061-02-6	trans 1,3-Dichloropropene	SOLID	#N/A	mg/kg	ug/kg				<200																
103-65-1	Propylbenzene	SOLID	0.28	mg/kg	ug/kg				<200																
104-51-8	n-Butylbenzene	SOLID	1.39	mg/kg	ug/kg				<220																
105-67-9	2,4-Dimethylphenol	SOLID	1.18	mg/kg	ug/kg				<100																
106-43-4	4-Chlorotoluene	SOLID	#N/A	mg/kg	ug/kg				<200																
106-44-5	4-Methylphenol	SOLID	0.53	mg/kg	ug/kg				<100																
106-46-7	1,4-Dichlorobenzene	SOLID	48.01	mg/kg	ug/kg				<100																
106-93-4	1,2-Dibromoethane	SOLID	#N/A	mg/kg	ug/kg				<200																
107-06-2	1,2-Dichloroethane	SOLID	#N/A	mg/kg	ug/kg				<5																
108-67-8	1,3,5-Trimethylbenzene	SOLID	0.15	mg/kg	ug/kg				<8								20.7		372.0		701.0			<8	<8
108-86-1	Bromobenzene	SOLID	#N/A	mg/kg	ug/kg				<200																
108-88-3	Toluene	SOLID	0.88	mg/kg	ug/kg		<7	<7	<140		<7	<7	<7		<7		14.0		<140	<7	<70	<7	<7	<7	<7
108-90-7	Chlorobenzene	SOLID	4.46	mg/kg	ug/kg				<100																
108-95-2	Phenol	SOLID	0.04	mg/kg	ug/kg				<100																
111-44-4	Bis(2-chloroethyl)ether	SOLID	#N/A	mg/kg	ug/kg				<100																
111-91-1	Bis(2-chloroethoxy)methane	SOLID	0.01	mg/kg	ug/kg				<100																
117-81-7	Bis(2-ethylhexyl)phthalate	SOLID	18472.17	mg/kg	ug/kg				<100																
117-84-0	n-Dioctylphthalate	SOLID	146035.35	mg/kg	ug/kg				<100																
118-74-1	Hexachlorobenzene	SOLID	0.23	mg/kg	ug/kg				<100																
120-82-1	1,2,4-Trichlorobenzene	SOLID	1.81	mg/kg	ug/kg				<100																
120-83-2	2,4-Dichlorophenol	SOLID	0.28	mg/kg	ug/kg				<100																
121-14-2	2,4-Dinitrotoluene	SOLID	0.00	mg/kg	ug/kg				<100																
124-48-1	Dibromochloromethane	SOLID	#N/A	mg/kg	ug/kg				<10																
127-18-4	Tetrachloroethene	SOLID	1.46	mg/kg	ug/kg				<5																
131-11-3	Dimethyl phthalate	SOLID	#N/A	mg/kg	ug/kg				<100																
132-64-9	Dibenzofuran	SOLID	0.49	mg/kg	ug/kg				<100																
135-98-8	sec-Butylbenzene	SOLID	1.39	mg/kg	ug/kg				<10																
142-28-9	1,3-Dichloropropane	SOLID	#N/A	mg/kg	ug/kg				<7																
156-59-2	cis 1,2-Dichloroethene	SOLID	0.31	mg/kg	ug/kg				<6																
156-60-5	trans 1,2-Dichloroethene	SOLID	#N/A	mg/kg	ug/kg				<10																
198-55-0	Perylene	SOLID	206.28	mg/kg	ug/kg																				
39638-32-9	Bis(2-chloroisopropyl)ether	SOLID	#N/A	mg/kg	ug/kg				<100																
541-73-1	1,3-Dichlorobenzene	SOLID	145.60	mg/kg	ug/kg				<100																
56-23-5	Carbon Tetrachloride	SOLID	#N/A	mg/kg	ug/kg				<10																
563-58-6	1,1-Dichloropropene	SOLID	0.41	mg/kg	ug/kg				<10																
594-20-7	2,2-Dichloropropane	SOLID	#N/A	mg/kg	ug/kg				<10																
59-50-7	4-Chloro-3-methylphenol	SOLID	2.93	mg/kg	ug/kg				<100																
606-20-2	2,6-Dinitrotoluene	SOLID	1.48	mg/kg	ug/kg				<100																
621-64-7	n-Nitroso-n-dipropylamine	SOLID	#N/A	mg/kg	ug/kg				<100																
630-20-6	1,1,1,2-Tetrachloroethane	SOLID	#N/A	mg/kg	ug/kg				<10																
67-66-3	Chloroform	SOLID	#N/A	mg/kg	ug/kg				<8																
67-72-1	Hexachloroethane	SOLID	3.21																						

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Hole Ref	AEC18-LF-TP257	AEC18-LF-TP257	AEC18-LF-TP257	AEC18-LF-TP258	AEC18-LF-TP258	AEC18-LF-TP259	AEC18-LF-TP259	AEC18-LF-TP260	AEC18-LF-TP260	AEC18-LF-TP260	AEC18-LF-TP261	AEC18-LF-TP261	AEC18-LF-TP262	AEC18-LF-TP262	AEC18-LF-TP263	AEC18-LF-TP263	AEC18-LF-TP263	AEC18-LF-TP264	AEC18-LF-TP264	AEC18-LF-TP264
Sample Top	0.20	2.00	4.40	0.40	1.50	0.30	3.60	0.50	2.50	4.30	0.20	5.50	2.50	5.70	1.50	3.50	5.55	2.00	4.00	4.50
Lookup soil	MADE GROUND	MADE GROUND	MADE GROUND	MG-LF	MG-LF	MADE GROUND	MG-LF	MG-LF	MG-LF	MG-LF	TS	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF
Sample Ref	1	3	6	1	2	1	4	1	3	5	1	6	3	6	2	4	6	3	5	6
Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES

Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	AEC18-LF-TP257	AEC18-LF-TP257	AEC18-LF-TP257	AEC18-LF-TP258	AEC18-LF-TP258	AEC18-LF-TP259	AEC18-LF-TP259	AEC18-LF-TP260	AEC18-LF-TP260	AEC18-LF-TP260	AEC18-LF-TP261	AEC18-LF-TP261	AEC18-LF-TP262	AEC18-LF-TP262	AEC18-LF-TP263	AEC18-LF-TP263	AEC18-LF-TP264	AEC18-LF-TP264	AEC18-LF-TP264	
1610-18-0	Prometon SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																				
16118-49-3	Carbetamide	SOLID	#N/A	mg/kg	mg/kg																				
1689-83-4	loxynil	SOLID	#N/A	mg/kg	mg/kg							<0.01			<0.01										
1689-84-5	Bromoxynil	SOLID	#N/A	mg/kg	mg/kg							<0.01			<0.01										
1702-17-6	Clopyralid	SOLID	#N/A	mg/kg	mg/kg																				
1746-81-2	Monolinuron	SOLID	#N/A	mg/kg	mg/kg																				
18691-97-9	Methabenzthiazuron	SOLID	#N/A	mg/kg	mg/kg																				
1897-45-6	Chlorothalonil	SOLID	#N/A	mg/kg	ug/kg								<1000		<1000										
1912-24-9	Atrazine SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																				
1918-00-9	Dicamba	SOLID	#N/A	mg/kg	mg/kg								<0.01		<0.01										
6607	Picloram	SOLID	#N/A	mg/kg	mg/kg																				
1967-16-4	Chlorbufam	SOLID	#N/A	mg/kg	mg/kg																				
1982-47-4	Chloroxuron	SOLID	#N/A	mg/kg	mg/kg																				
19937-59-8	Metoxuron	SOLID	#N/A	mg/kg	mg/kg																				
2132-70-9	p,p-Methoxychlor	SOLID	#N/A	mg/kg	ug/kg																				
2274-67-1	Chlorpyrifos-methyl	SOLID	#N/A	mg/kg	ug/kg								<50		<1000										
2303-17-5	Triallate	SOLID	#N/A	mg/kg	ug/kg								<50		<1000										
2310-17-0	Phosalone	SOLID	#N/A	mg/kg	ug/kg								<50		<1000										
23103-98-2	Pirimicarb	SOLID	#N/A	mg/kg	mg/kg																				
24017-47-8	Triazophos	SOLID	#N/A	mg/kg	ug/kg								<50		<1000										
25057-89-0	Bentazone	SOLID	#N/A	mg/kg	mg/kg								<0.01		<0.01										
2642-71-9	Azinphos-ethyl	SOLID	#N/A	mg/kg	ug/kg								<50		<1000										
2921-88-2	Chlorpyrifos	SOLID	#N/A	mg/kg	ug/kg								<50		<1000										
29232-93-7	Pirimiphos Methyl	SOLID	#N/A	mg/kg	ug/kg								<50		<1000										
297-78-9	Telodrin	SOLID	#N/A	mg/kg	ug/kg								<50		<1000										
298-00-0	Methyl Parathion	SOLID	#N/A	mg/kg	ug/kg								<50		<1000										
298-01-1	Mevinphos	SOLID	#N/A	mg/kg	ug/kg								<50		<1000										
298-04-4	Disulfoton SUBCON OCP Alcontrol	SOLID	#N/A	mg/kg	ug/kg								<50		<1000										
29973-13-5	Ethiofencarb	SOLID	#N/A	mg/kg	mg/kg																				
30667-99-3	o,p-Methoxychlor	SOLID	#N/A	mg/kg	ug/kg								<50		<1000										
309-00-2	Aldrin SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg								<50		<1000										
31218-83-4	Propetamphos	SOLID	#N/A	mg/kg	ug/kg								<50		<1000										
314-40-9	Bromacil	SOLID	#N/A	mg/kg	mg/kg																				
319-84-6	alpha-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg								<50		<1000										
	beta-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg								<50		<1000										
319-85-7		SOLID	#N/A	mg/kg	ug/kg																				
330-54-1	Diuron SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																				
330-55-2	Linuron	SOLID	#N/A	mg/kg	mg/kg																				
33213-65-9	Endosulphan II	SOLID	#N/A	mg/kg	ug/kg								<50		<1000										
333-41-5	Diazinon	SOLID	#N/A	mg/kg	ug/kg								<50		<1000										
34123-59-6	Isoproturon	SOLID	#N/A	mg/kg	mg/kg																				
34205-21-5	Dimefuron	SOLID	#N/A	mg/kg	mg/kg																				
3424-82-6	o,p-DDE	SOLID	#N/A	mg/kg	ug/kg								<50		<1000										
35367-38-5	Diflufenzuron	SOLID	#N/A	mg/kg	mg/kg																				
698836	Benzolin	SOLID	#N/A	mg/kg	mg/kg																				
38260-54-7	Etrimpfos	SOLID	#N/A	mg/kg	ug/kg								<50		<1000										
40483-25-2	Diclofop	SOLID	#N/A	mg/kg	mg/kg								<0.01		<0.01										
40487-42-1	Pendimethalin	SOLID	#N/A	mg/kg	ug/kg								<50		<1000										
43121-43-3	Triadimefon	SOLID	#N/A	mg/kg	ug/kg								<50		<1000										
465-73-6	Isodrin	SOLID	#N/A	mg/kg	ug/kg								<50		<1000										
470-90-6	Chlorfenvinphos	SOLID	#N/A	mg/kg	ug/kg								<50		<1000										
50-29-3	p,p-DDT SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg								<50		<1000										
50-31-7	2,3,6-TBA	SOLID	#N/A	mg/kg	mg/kg																				
5103-71-9	cis-Chlordane SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg								<50		<1000										
5103-74-2	trans-Chlordane SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg								<50		<1000										
51630-58-1	Fenvalerate SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																				
52315-07-8	Cypermethrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																				
52645-53-1	Permethrin SUBCON RPS MH Pyrethroids	SOLID	#N/A	mg/kg	mg/kg																				
52756-22-6	Flamprop-isopropyl	SOLID	#N/A	mg/kg	mg/kg																				
52918-63-5	Deltamethrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																				
53-19-0	o,p-TDE (DDD)	SOLID	#N/A	mg/kg	ug/kg								<50		<1000										
55335-06-3	Triclopyr	SOLID	#N/A	mg/kg	mg/kg								<0.01		<0.01										
55-38-9	Fenthion	SOLID	#N/A	mg/kg	ug/kg								<50		<1000										
563-12-2	Ethion	SOLID	#N/A	mg/kg	ug/kg								<50		<1000										
56-38-2	Parathion (Ethyl Parathion)	SOLID	#N/A	mg/kg	ug/kg								<50		<1000										
58667-63-3	Fiamprop	SOLID	#N/A	mg/kg	mg/kg																				

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					Hole Ref	AEC18-LF-TP257	AEC18-LF-TP257	AEC18-LF-TP257	AEC18-LF-TP258	AEC18-LF-TP258	AEC18-LF-TP259	AEC18-LF-TP259	AEC18-LF-TP260	AEC18-LF-TP260	AEC18-LF-TP260	AEC18-LF-TP261	AEC18-LF-TP261	AEC18-LF-TP262	AEC18-LF-TP262	AEC18-LF-TP263	AEC18-LF-TP263	AEC18-LF-TP263	AEC18-LF-TP264	AEC18-LF-TP264	AEC18-LF-TP264
Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
					Sample Top	0.20	2.00	4.40	0.40	1.50	0.30	3.60	0.50	2.50	4.30	0.20	5.50	2.50	5.70	1.50	3.50	5.55	2.00	4.00	4.50
					Lookup soil	MADE GROUND	MADE GROUND	MADE GROUND	MG-LF	MG-LF	MADE GROUND	MG-LF	MG-LF	MG-LF	MG-LF	TS	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF
					Sample Ref	1	3	6	1	2	1	4	1	3	5	1	6	3	6	2	4	6	3	5	6
103-33-3	Azobenzene	SOLID - INITIAL	0.38	mg/kg	ug/kg			<100	<100				<100			<100		<100		<100		<200		<100	<100
106-47-8	4-Chloroaniline	SOLID - INITIAL	0.01	mg/kg	ug/kg			<100	<100				<100			<100		<100		<100		1040.0		<100	<100
700-57-23	4-Chlorophenylphenylether	SOLID - INITIAL	#N/A	mg/kg	ug/kg			<100	<100				<100			<100		<100		<100		<200		<100	<100
88-74-4	2-Nitroaniline	SOLID - INITIAL	0.01	mg/kg	ug/kg			<100	<100				<100			<100		<100		<100		817.0		<100	<100
99-09-2	3-Nitroaniline	SOLID - INITIAL	#N/A	mg/kg	ug/kg			<100	<100				<100			<100		<100		<100		<200		<100	<100
994-05-8	Tertiary Amyl Methyl Ether	SOLID - INITIAL	#N/A	mg/kg	ug/kg			<10	<200				<10			<10		<200		<100				<10	<10
1336-36-6	PCB Total (WAC only)	SOLID	#N/A	mg/kg	mg/kg																				
P1330	BTEX (total) WAC	SOLID	#N/A	mg/kg	mg/kg																				

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Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	AEC18-LF-TP264	AEC18-LF-TP265	AEC18-LF-TP265	AEC18-LF-TP265	AEC18-LF-TP267	AEC18-LF-TP267	AEC18-LF-TP267	AEC18-LF-TP268	AEC18-LF-TP268A	AEC18-LF-TP268A	AEC18-LF-TP269	AEC18-LF-TP269	AEC18-LF-TP269	AEC18-LF-TP270	AEC18-LF-TP270	AEC18-LF-TP270	AEC18-LF-TP272	AEC18-LF-TP272	AEC18-LF-TP272	AEC18-LF-TP272	AEC18-LF-TP273
						Sample Top	Lookup soil	Sample Ref	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
108-67-8	1,3,5-Trimethylbenzene	SOLID - INITIAL	0.15	mg/kg	mg/kg																					
108-86-1	Bromobenzene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
108-90-7	Chlorobenzene	SOLID - INITIAL	4.46	mg/kg	mg/kg																					
108-95-2	Phenol	SOLID - INITIAL	0.04	mg/kg	mg/kg	0.5	<0.01	<0.01	<0.01	<0.01	0.0	0.1	<0.01	<0.01	0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05
111-91-1	Bis(2-chloroethoxy)methane	SOLID - INITIAL	0.01	mg/kg	mg/kg																					
117-81-7	Bis(2-ethylhexyl)phthalate	SOLID - INITIAL	18472.17	mg/kg	mg/kg																					
117-84-0	Di-N-Octyl Phthalate	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
118-74-1	Hexachlorobenzene (HCB)	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
120-82-1	1,2,4-Trichlorobenzene	SOLID - INITIAL	1.81	mg/kg	mg/kg																					
120-83-2	2,4-Dichlorophenol	SOLID - INITIAL	0.28	mg/kg	mg/kg																					
121-14-2	2,4-Dinitrotoluene	SOLID - INITIAL	0.00	mg/kg	mg/kg																					
122-39-4	Diphenylamine	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
124-48-1	Dibromochloromethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
127-18-4	Tetrachloroethene	SOLID - INITIAL	1.46	mg/kg	mg/kg																					
131-11-3	Dimethylphthalate	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
132-64-9	Dibenzofuran	SOLID - INITIAL	0.49	mg/kg	mg/kg																					
135-98-8	Sec-Butylbenzene	SOLID - INITIAL	1.39	mg/kg	mg/kg																					
142-28-9	1,3-Dichloropropane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
156-59-2	cis-1,2-Dichloroethene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
156-60-5	trans-1,2-Dichloroethene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
1634-04-4	Methyl tert-butyl ether (MTBE)	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
39638-32-9	Bis(2-chloroisopropyl)ether	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
528-29-0	O-Dinitrobenzene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
534-52-1	2-Methyl-4,6-Dinitrophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
541-73-1	1,3-Dichlorobenzene	SOLID - INITIAL	145.60	mg/kg	mg/kg																					
56-23-5	Tetrachloromethane (Carbon Tetra Chloride)	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
563-58-6	1,1-Dichloropropene	SOLID - INITIAL	0.41	mg/kg	mg/kg																					
58-90-2	2,3,4,6-Tetrachlorophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
594-20-7	2,2-Dichloropropane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
59-50-7	4-Chloro-3-Methylphenol	SOLID - INITIAL	2.93	mg/kg	mg/kg																					
606-20-2	2,6-Dinitrotoluene	SOLID - INITIAL	1.48	mg/kg	mg/kg																					
62-53-3	Aniline	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
630-20-6	1,1,1,2-Tetrachloroethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
67-66-3	Chloroform	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
700-57-23	4-Chlorophenyl Phenyl Ether	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
71-55-6	1,1,1-Trichloroethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
74-95-3	Dibromomethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
74-97-5	Bromochloromethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
75-01-4	Chloroethene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
75-25-2	Tribromomethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
75-27-4	Bromodichloromethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
75-34-3	1,1-Dichloroethane	SOLID - INITIAL	0.01	mg/kg	mg/kg																					
75-35-4	1,1-Dichloroethene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
77-47-4	Hexachlorocyclopentadiene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
78-87-5	1,2-Dichloropropane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
79-00-5	1,1,2-Trichloroethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
79-01-6	Trichloroethene	SOLID - INITIAL	0.09	mg/kg	mg/kg																					
84-66-2	Diethylphthalate	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
84-74-2	Di-N-Butyl Phthalate	SOLID - INITIAL	0.52	mg/kg	mg/kg																					
85-68-7	Butylbenzylphthalate	SOLID - INITIAL	23.36	mg/kg	mg/kg																					
86-74-8	Carbazole	SOLID - INITIAL	0.01	mg/kg	mg/kg																					
87-61-6	1,2,3 Trichlorobenzene	SOLID - INITIAL	0.26	mg/kg	mg/kg																					
87-68-3	Hexachlorobutadiene (HCBd)	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
87-86-5	Pentachlorophenol (PCP)	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
88-06-2	2,4,6-Trichlorophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
88-74-4	2-Nitroaniline	SOLID - INITIAL	0.01	mg/kg	mg/kg																					
91-57-6	2-Methylnaphthalene	SOLID - INITIAL	0.84	mg/kg	mg/kg																					
91-58-7	2-Chloronaphthalene	SOLID - INITIAL	0.92	mg/kg	mg/kg																					
935-95-5	2,3,5,6-Tetrachlorophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
95-47-6	Xylene	SOLID - INITIAL	0.23	mg/kg	mg/kg																					
95-48-7	2-Methylphenol	SOLID - INITIAL	0.54	mg/kg	mg/kg																					
95-49-8	2-Chlorotoluene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
95-50-1	1,2-Dichlorobenzene	SOLID - INITIAL	40.42	mg/kg	mg/kg																					
95-57-8	2-Chlorophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																					
95-63-6	1,2,4-Trimethylbenzene	SOLID - INITIAL	0.25	mg/kg	mg/kg																					
95-95-4	2,4,5-Trichlorophenol	SOLID - INITIAL	60.93	mg/kg	mg/kg																					
96-12-8	1,2-Dibromo-3-Chloropropane																									

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Hole Ref	AEC18-LF-TP264	AEC18-LF-TP265	AEC18-LF-TP265	AEC18-LF-TP265	AEC18-LF-TP267	AEC18-LF-TP267	AEC18-LF-TP267	AEC18-LF-TP268	AEC18-LF-TP268A	AEC18-LF-TP268A	AEC18-LF-TP269	AEC18-LF-TP269	AEC18-LF-TP269	AEC18-LF-TP270	AEC18-LF-TP270	AEC18-LF-TP270	AEC18-LF-TP272	AEC18-LF-TP272	AEC18-LF-TP272	AEC18-LF-TP273					
Sample Top	5.70	0.40	3.50	5.60	1.00	2.70	5.60	0.50	1.50	5.40	0.20	3.50	5.40	2.50	3.50	5.60	1.50	3.50	4.50	0.20					
Lookup soil	MG-LF	MADE GROUND	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MADE GROUND	MG-LF	MG-LF	MADE GROUND	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MADE GROUND	MADE GROUND	MG-LF	MADE GROUND					
Sample Ref	8	1	4	6	2	4	7	2	2	6	1	4	6	3	4	8	2	4	5	1					
Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES					
Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type																				
1610-18-0	Prometon SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																				
16118-49-3	Carbetamide	SOLID	#N/A	mg/kg	mg/kg																				
1689-83-4	loxynil	SOLID	#N/A	mg/kg	mg/kg																				
1689-84-5	Bromoxynil	SOLID	#N/A	mg/kg	mg/kg																				
1702-17-6	Clopyralid	SOLID	#N/A	mg/kg	mg/kg																				
1746-81-2	Monolinuron	SOLID	#N/A	mg/kg	mg/kg																				
18691-97-9	Methabenzthiazuron	SOLID	#N/A	mg/kg	mg/kg																				
1897-45-6	Chlorothalonil	SOLID	#N/A	mg/kg	ug/kg																				
1912-24-9	Atrazine SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																				
1918-00-9	Dicamba	SOLID	#N/A	mg/kg	mg/kg																				
6607	Picloram	SOLID	#N/A	mg/kg	mg/kg																				
1967-16-4	Chlorbufam	SOLID	#N/A	mg/kg	mg/kg																				
1982-47-4	Chloroxuron	SOLID	#N/A	mg/kg	mg/kg																				
19937-59-8	Metoxuron	SOLID	#N/A	mg/kg	mg/kg																				
2132-70-9	p,p-Methoxychlor	SOLID	#N/A	mg/kg	ug/kg																				
2274-67-1	Chlorpyrifos-methyl	SOLID	#N/A	mg/kg	ug/kg																				
2303-17-5	Triallate	SOLID	#N/A	mg/kg	ug/kg																				
2310-17-0	Phosalone	SOLID	#N/A	mg/kg	ug/kg																				
23103-98-2	Pirimicarb	SOLID	#N/A	mg/kg	mg/kg																				
24017-47-8	Triazophos	SOLID	#N/A	mg/kg	ug/kg																				
25057-89-0	Bentazone	SOLID	#N/A	mg/kg	mg/kg																				
2642-71-9	Azinphos-ethyl	SOLID	#N/A	mg/kg	ug/kg																				
2921-88-2	Chlorpyrifos	SOLID	#N/A	mg/kg	ug/kg																				
29232-93-7	Pirimiphos Methyl	SOLID	#N/A	mg/kg	ug/kg																				
297-78-9	Telodrin	SOLID	#N/A	mg/kg	ug/kg																				
298-00-0	Methyl Parathion	SOLID	#N/A	mg/kg	ug/kg																				
298-01-1	Mevinphos	SOLID	#N/A	mg/kg	ug/kg																				
298-04-4	Disulfoton SUBCON OCP Alcontrol	SOLID	#N/A	mg/kg	ug/kg																				
29973-13-5	Ethiofencarb	SOLID	#N/A	mg/kg	mg/kg																				
30667-99-3	o,p-Methoxychlor	SOLID	#N/A	mg/kg	ug/kg																				
309-00-2	Aldrin SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																				
31218-83-4	Propetamphos	SOLID	#N/A	mg/kg	ug/kg																				
314-40-9	Bromacil	SOLID	#N/A	mg/kg	mg/kg																				
319-84-6	alpha-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																				
	beta-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																				
319-85-7		SOLID	#N/A	mg/kg	ug/kg																				
330-54-1	Diuron SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																				
330-55-2	Linuron	SOLID	#N/A	mg/kg	mg/kg																				
33213-65-9	Endosulphan II	SOLID	#N/A	mg/kg	ug/kg																				
333-41-5	Diazinon	SOLID	#N/A	mg/kg	ug/kg																				
34123-59-6	Isoproturon	SOLID	#N/A	mg/kg	mg/kg																				
34205-21-5	Dimefuron	SOLID	#N/A	mg/kg	mg/kg																				
3424-82-6	o,p-DDE	SOLID	#N/A	mg/kg	ug/kg																				
35367-38-5	Diflufenzuron	SOLID	#N/A	mg/kg	mg/kg																				
698836	Benazolin	SOLID	#N/A	mg/kg	mg/kg																				
38260-54-7	Etrimpfos	SOLID	#N/A	mg/kg	ug/kg																				
40483-25-2	Diclofop	SOLID	#N/A	mg/kg	mg/kg																				
40487-42-1	Pendimethalin	SOLID	#N/A	mg/kg	ug/kg																				
43121-43-3	Triadimefon	SOLID	#N/A	mg/kg	ug/kg																				
465-73-6	Isodrin	SOLID	#N/A	mg/kg	ug/kg																				
470-90-6	Chlorfenvinphos	SOLID	#N/A	mg/kg	ug/kg																				
50-29-3	p,p-DDT SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																				
50-31-7	2,3,6-TBA	SOLID	#N/A	mg/kg	mg/kg																				
5103-71-9	cis-Chlordane SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																				
5103-74-2	trans-Chlordane SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																				
51630-58-1	Fenvalerate SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																				
52315-07-8	Cypermethrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																				
52645-53-1	Permethrin SUBCON RPS MH Pyrethroids	SOLID	#N/A	mg/kg	mg/kg																				
52756-22-6	Flamprop-isopropyl	SOLID	#N/A	mg/kg	mg/kg																				
52918-63-5	Deltamethrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																				
53-19-0	o,p-TDE (DDD)	SOLID	#N/A	mg/kg	ug/kg																				
55335-06-3	Triclopyr	SOLID	#N/A	mg/kg	mg/kg																				
55-38-9	Fenthion	SOLID	#N/A	mg/kg	ug/kg																				
563-12-2	Ethion	SOLID	#N/A	mg/kg	ug/kg																				
56-38-2	Parathion (Ethyl Parathion)	SOLID	#N/A	mg/kg	ug/kg																				
58667-63-3	Fiamprop	SOLID	#N/A	mg/kg	mg/kg																				

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Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	Hole Ref	AEC18-LF-TP264	AEC18-LF-TP265	AEC18-LF-TP265	AEC18-LF-TP265	AEC18-LF-TP267	AEC18-LF-TP267	AEC18-LF-TP267	AEC18-LF-TP268	AEC18-LF-TP268A	AEC18-LF-TP268A	AEC18-LF-TP269	AEC18-LF-TP269	AEC18-LF-TP269	AEC18-LF-TP270	AEC18-LF-TP270	AEC18-LF-TP270	AEC18-LF-TP272	AEC18-LF-TP272	AEC18-LF-TP272	AEC18-LF-TP272	AEC18-LF-TP273
						Sample Top	Lookup soil	Sample Ref	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
103-33-3	Azobenzene	SOLID - INITIAL	0.38	mg/kg	ug/kg	<100				<100	<100	<100	<1000		<100				<100				<500			<100	
106-47-8	4-Chloroaniline	SOLID - INITIAL	0.01	mg/kg	ug/kg	<100				<100	<100	<100	<1000		<100				<100				<500			<100	
700-57-23	4-Chlorophenylphenylether	SOLID - INITIAL	#N/A	mg/kg	ug/kg	<100				<100	<100	<100	<1000		<100				<100				<500			<100	
88-74-4	2-Nitroaniline	SOLID - INITIAL	0.01	mg/kg	ug/kg	<100				<100	<100	<100	<1000		<100				<100				<500			<100	
99-09-2	3-Nitroaniline	SOLID - INITIAL	#N/A	mg/kg	ug/kg	<100				<100	<100	<100	<1000		<100				<100				<500			<100	
994-05-8	Tertiary Amyl Methyl Ether	SOLID - INITIAL	#N/A	mg/kg	ug/kg	<10				<10	<100	<100	<2000		<10				<10				<100			<200	
1336-36-6	PCB Total (WAC only)	SOLID	#N/A	mg/kg	mg/kg																						
P1330	BTEX (total) WAC	SOLID	#N/A	mg/kg	mg/kg																						

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Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	AEC18-LF-TP273	AEC18-LF-TP273	AEC18-LF-TP274	AEC18-LF-TP274	AEC18-LF-TP274	AEC18-LF-TP274	AEC18-LF-TP275	AEC18-LF-TP275	AEC18-LF-TP275	AEC18-LF-TP276	AEC18-LF-TP276	AEC18-LF-TP276	AEC18-LF-TP276	AEC18-LF-WS201	AEC18-LF-WS201	AEC18-LF-WS203	AEC18-LF-WS203	AEC18-LF-WS204	AEC18-LF-WS205A	AEC18-LF-WS205A
						3.50	6.00	0.20	2.50	4.50	5.40	1.50	3.50	5.40	1.50	3.50	4.50	5.60	0.90	2.90	0.20	4.00	1.00	0.80	3.20
Sample Ref	Lookup soil	Sample Ref	Sample Ref	Sample Ref	Sample Ref	4	6	1	3	5	6	2	4	6	2	4	5	6	2	4	1	7	2	3	6
Sample Type	Sample Type	Sample Type	Sample Type	Sample Type	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
108-67-8	1,3,5-Trimethylbenzene	SOLID - INITIAL	0.15	mg/kg	mg/kg																				
108-86-1	Bromobenzene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
108-90-7	Chlorobenzene	SOLID - INITIAL	4.46	mg/kg	mg/kg																				
108-95-2	Phenol	SOLID - INITIAL	0.04	mg/kg	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.0
111-91-1	Bis(2-chloroethoxy)methane	SOLID - INITIAL	0.01	mg/kg	mg/kg																				
117-81-7	Bis(2-ethylhexyl)phthalate	SOLID - INITIAL	18472.17	mg/kg	mg/kg																				
117-84-0	Di-N-Octyl Phthalate	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
118-74-1	Hexachlorobenzene (HCB)	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
120-82-1	1,2,4-Trichlorobenzene	SOLID - INITIAL	1.81	mg/kg	mg/kg																				
120-83-2	2,4-Dichlorophenol	SOLID - INITIAL	0.28	mg/kg	mg/kg																				
121-14-2	2,4-Dinitrotoluene	SOLID - INITIAL	0.00	mg/kg	mg/kg																				
122-39-4	Diphenylamine	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
124-48-1	Dibromochloromethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
127-18-4	Tetrachloroethene	SOLID - INITIAL	1.46	mg/kg	mg/kg																				
131-11-3	Dimethylphthalate	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
132-64-9	Dibenzofuran	SOLID - INITIAL	0.49	mg/kg	mg/kg																				
135-98-8	Sec-Butylbenzene	SOLID - INITIAL	1.39	mg/kg	mg/kg																				
142-28-9	1,3-Dichloropropane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
156-59-2	cis-1,2-Dichloroethene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
156-60-5	trans-1,2-Dichloroethene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
1634-04-4	Methyl tert-butyl ether (MTBE)	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
39638-32-9	Bis(2-chloroisopropyl)ether	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
528-29-0	O-Dinitrobenzene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
534-52-1	2-Methyl-4,6-Dinitrophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg							<0.01													
541-73-1	1,3-Dichlorobenzene	SOLID - INITIAL	145.60	mg/kg	mg/kg																				
56-23-5	Tetrachloromethane (Carbon Tetra Chloride)	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
563-58-6	1,1-Dichloropropene	SOLID - INITIAL	0.41	mg/kg	mg/kg																				
58-90-2	2,3,4,6-Tetrachlorophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
594-20-7	2,2-Dichloropropane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
59-50-7	4-Chloro-3-Methylphenol	SOLID - INITIAL	2.93	mg/kg	mg/kg																				
606-20-2	2,6-Dinitrotoluene	SOLID - INITIAL	1.48	mg/kg	mg/kg																				
62-53-3	Aniline	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
630-20-6	1,1,1,2-Tetrachloroethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
67-66-3	Chloroform	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
700-57-23	4-Chlorophenyl Phenyl Ether	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
71-55-6	1,1,1-Trichloroethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
74-95-3	Dibromomethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
74-97-5	Bromochloromethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
75-01-4	Chloroethene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
75-25-2	Tribromomethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
75-27-4	Bromodichloromethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
75-34-3	1,1-Dichloroethane	SOLID - INITIAL	0.01	mg/kg	mg/kg																				
75-35-4	1,1-Dichloroethene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
77-47-4	Hexachlorocyclopentadiene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
78-87-5	1,2-Dichloropropane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
79-00-5	1,1,2-Trichloroethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
79-01-6	Trichloroethene	SOLID - INITIAL	0.09	mg/kg	mg/kg																				
84-66-2	Diethylphthalate	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
84-74-2	Di-N-Butyl Phthalate	SOLID - INITIAL	0.52	mg/kg	mg/kg																				
85-68-7	Butylbenzylphthalate	SOLID - INITIAL	23.36	mg/kg	mg/kg																				
86-74-8	Carbazole	SOLID - INITIAL	0.01	mg/kg	mg/kg																				
87-61-6	1,2,3 Trichlorobenzene	SOLID - INITIAL	0.26	mg/kg	mg/kg																				
87-68-3	Hexachlorobutadiene (HCBd)	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
87-86-5	Pentachlorophenol (PCP)	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
88-06-2	2,4,6-Trichlorophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
88-74-4	2-Nitroaniline	SOLID - INITIAL	0.01	mg/kg	mg/kg																				
91-57-6	2-Methylnaphthalene	SOLID - INITIAL	0.84	mg/kg	mg/kg																				
91-58-7	2-Chloronaphthalene	SOLID - INITIAL	0.92	mg/kg	mg/kg																				
935-95-5	2,3,5,6-Tetrachlorophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
95-47-6	Xylene	SOLID - INITIAL	0.23	mg/kg	mg/kg																				
95-48-7	2-Methylphenol	SOLID - INITIAL	0.54	mg/kg	mg/kg																				
95-49-8	2-Chlorotoluene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
95-50-1	1,2-Dichlorobenzene	SOLID - INITIAL	40.42	mg/kg	mg/kg																				
95-57-8	2-Chlorophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
95-63-6	1,2,4-Trimethylbenzene	SOLID - INITIAL	0.25	mg/kg	mg/kg																				
95-95-4	2,4,5-Trichlorophenol	SOLID - INITIAL	60.93	mg/kg	mg/kg							<0.01													
96-12-8	1,2-Dibromo-3-Chloropropane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
96-18-4	1,2,3-Trichloropropane	SOLID - INITIAL	0.44	mg/kg	mg/kg																				

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G2 RTM Level 1 - Soils

Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	AEC18-LF-TP273	AEC18-LF-TP273	AEC18-LF-TP274	AEC18-LF-TP274	AEC18-LF-TP274	AEC18-LF-TP274	AEC18-LF-TP275	AEC18-LF-TP275	AEC18-LF-TP275	AEC18-LF-TP276	AEC18-LF-TP276	AEC18-LF-TP276	AEC18-LF-TP276	AEC18-LF-WS201	AEC18-LF-WS201	AEC18-LF-WS203	AEC18-LF-WS203	AEC18-LF-WS204	AEC18-LF-WS205A	AEC18-LF-WS205A
						3.50	6.00	0.20	2.50	4.50	5.40	1.50	3.50	5.40	1.50	3.50	4.50	5.60	0.90	2.90	0.20	4.00	1.00	0.80	3.20
98-06-6	Tert-Butylbenzene	SOLID - INITIAL	0.75	mg/kg	mg/kg																				
98-82-8	Isopropylbenzene	SOLID - INITIAL	0.27	mg/kg	mg/kg																				
99-09-2	3-Nitroaniline	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
99-65-0	M-Dinitrobenzene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
99-87-6	4-Isopropyltoluene	SOLID - INITIAL	54.06	mg/kg	mg/kg																				
P1374	xylene	SOLID - INITIAL	0.23	mg/kg	mg/kg																				
18540-29-9	chromium hexavalent	SOLID - INITIAL	0.02	mg/kg	mg/kg				<0.6				<0.6								<0.3				
P1095	Cyanide Free	SOLID - INITIAL	#N/A	mg/kg	mg/kg				<1												<0.5				
P1239	Complex Cyanide	SOLID - INITIAL	0.26	mg/kg	mg/kg				59.9												<0.5				
31508-00-6	PCB-118 2,3,4,4,5 - Pentachlorobiphenyl	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
32598-13-3	PCB 77	SOLID - INITIAL	6185.41	mg/kg	mg/kg																				
32598-14-4	PCB 105	SOLID - INITIAL	8940.63	mg/kg	mg/kg																				
32774-16-6	PCB 169	SOLID - INITIAL	37270.75	mg/kg	mg/kg																				
38380-08-4	PCB-156 2,3,3,4,4,5 - Hexachlorobiphenyl	SOLID - INITIAL	3172.26	mg/kg	mg/kg																				
39635-31-9	PCB 189	SOLID - INITIAL	270002.64	mg/kg	mg/kg																				
52663-72-6	PCB 167	SOLID - INITIAL	45853.03	mg/kg	mg/kg																				
57465-28-8	PCB 126	SOLID - INITIAL	8940.63	mg/kg	mg/kg																				
65510-44-3	PCB 123	SOLID - INITIAL	8940.63	mg/kg	mg/kg																				
69782-90-7	PCB 157	SOLID - INITIAL	45853.03	mg/kg	mg/kg																				
70362-50-4	PCB 81	SOLID - INITIAL	8940.63	mg/kg	mg/kg																				
74472-37-0	PCB 114	SOLID - INITIAL	8940.63	mg/kg	mg/kg																				
100-02-7	4-Nitrophenol	SOLID	0.04	mg/kg	ug/kg				<200	<100			<100	<100											
100-41-4	Ethylbenzene	SOLID	0.53	mg/kg	ug/kg	<4	<4		4110.0	<4	<4		<4	36.6				<4		<4			6.8		94.8
100-42-5	Styrene	SOLID	1.04	mg/kg	ug/kg				<200	<10			<10	<10											
10061-01-5	cis 1,3-Dichloropropene	SOLID	#N/A	mg/kg	ug/kg				<200	<10			<10	<10											
10061-02-6	trans 1,3-Dichloropropene	SOLID	#N/A	mg/kg	ug/kg				<200	<10			<10	<10											
103-65-1	Propylbenzene	SOLID	0.28	mg/kg	ug/kg				692.0	<10			<10	108.0											
104-51-8	n-Butylbenzene	SOLID	1.39	mg/kg	ug/kg				1160.0	<11			<11	564.0											
105-67-9	2,4-Dimethylphenol	SOLID	1.18	mg/kg	ug/kg				<200	<100			<100	<100											
106-43-4	4-Chlorotoluene	SOLID	#N/A	mg/kg	ug/kg				<200	<10			<10	<10											
106-44-5	4-Methylphenol	SOLID	0.53	mg/kg	ug/kg				<200	<100			<100	<100											
106-46-7	1,4-Dichlorobenzene	SOLID	48.01	mg/kg	ug/kg				<200	<100			<100	<100											
106-93-4	1,2-Dibromoethane	SOLID	#N/A	mg/kg	ug/kg				<200	<10			<10	<10											
107-06-2	1,2-Dichloroethane	SOLID	#N/A	mg/kg	ug/kg				<100	<5			<5	<5											
108-67-8	1,3,5-Trimethylbenzene	SOLID	0.15	mg/kg	ug/kg				7390.0	<8			17.2	1050.0											
108-86-1	Bromobenzene	SOLID	#N/A	mg/kg	ug/kg				<200	<10			<10	<10											
108-88-3	Toluene	SOLID	0.88	mg/kg	ug/kg	<7	<7		4400.0	<7	<7		<7	<7				<7		<7					10.8
108-90-7	Chlorobenzene	SOLID	4.46	mg/kg	ug/kg				<100	<5			<5	<5											
108-95-2	Phenol	SOLID	0.04	mg/kg	ug/kg				<200	<100			<100	<100											
111-44-4	Bis(2-chloroethyl)ether	SOLID	#N/A	mg/kg	ug/kg				<200	<100			<100	<100											
111-91-1	Bis(2-chloroethoxy)methane	SOLID	0.01	mg/kg	ug/kg				<200	<100			<100	<100											
117-81-7	Bis(2-ethylhexyl)phthalate	SOLID	18472.17	mg/kg	ug/kg				<200	<100			3080.0	<100											
117-84-0	n-Dioctylphthalate	SOLID	146035.35	mg/kg	ug/kg				<200	<100			<100	<100											
118-74-1	Hexachlorobenzene	SOLID	0.23	mg/kg	ug/kg				<200	<100	<1000		<100	<100											
120-82-1	1,2,4-Trichlorobenzene	SOLID	1.81	mg/kg	ug/kg				<200	<100			<100	<100											
120-83-2	2,4-Dichlorophenol	SOLID	0.28	mg/kg	ug/kg				<200	<100			<100	<100											
121-14-2	2,4-Dinitrotoluene	SOLID	0.00	mg/kg	ug/kg				<200	<100			<100	<100											
124-48-1	Dibromochloromethane	SOLID	#N/A	mg/kg	ug/kg				<200	<10			<10	<10											
127-18-4	Tetrachloroethene	SOLID	1.46	mg/kg	ug/kg				<100	<5			<5	<5											195.0
131-11-3	Dimethyl phthalate	SOLID	#N/A	mg/kg	ug/kg				<200	<100			<100	<100											
132-64-9	Dibenzofuran	SOLID	0.49	mg/kg	ug/kg				<200	<100			<100	<100											
135-98-8	sec-Butylbenzene	SOLID	1.39	mg/kg	ug/kg				468.0	<10			<10	419.0											
142-28-9	1,3-Dichloropropane	SOLID	#N/A	mg/kg	ug/kg				<140	<7			<7	<7											
156-59-2	cis 1,2-Dichloroethene	SOLID	0.31	mg/kg	ug/kg				1340.0	<6			<6	<6											
156-60-5	trans 1,2-Dichloroethene	SOLID	#N/A	mg/kg	ug/kg				<200	<10			<10	<10											
198-55-0	Perylene	SOLID	206.28	mg/kg	ug/kg																				
39638-32-9	Bis(2-chloroisopropyl)ether	SOLID	#N/A	mg/kg	ug/kg				<200	<100			<100	<100											
541-73-1	1,3-Dichlorobenzene	SOLID	145.60	mg/kg	ug/kg				<160	<100			<100	<100											
56-23-5	Carbon Tetrachloride	SOLID	#N/A	mg/kg	ug/kg				<200	<10			<10	<10											
563-58-6	1,1-Dichloropropene	SOLID	0.41	mg/kg	ug/kg				<200	<10			<10	<10											
594-20-7	2,2-Dichloropropane	SOLID	#N/A	mg/kg	ug/kg				<200	<10			<10	<10											
59-50-7	4-Chloro-3-methylphenol	SOLID	2.93	mg/kg	ug/kg				<200	<100			<100	<100											
606-20-2	2,6-Dinitrotoluene	SOLID	1.48	mg/kg	ug/kg				<200	<100			<100	<100</											

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Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	Hole Ref																			
						AEC18-LF-TP273	AEC18-LF-TP273	AEC18-LF-TP274	AEC18-LF-TP274	AEC18-LF-TP274	AEC18-LF-TP274	AEC18-LF-TP275	AEC18-LF-TP275	AEC18-LF-TP275	AEC18-LF-TP276	AEC18-LF-TP276	AEC18-LF-TP276	AEC18-LF-TP276	AEC18-LF-WS201	AEC18-LF-WS201	AEC18-LF-WS203	AEC18-LF-WS203	AEC18-LF-WS204	AEC18-LF-WS205A	AEC18-LF-WS205A
						3.50	6.00	0.20	2.50	4.50	5.40	1.50	3.50	5.40	1.50	3.50	4.50	5.60	0.90	2.90	0.20	4.00	1.00	0.80	3.20
						MADE GROUND	MADE GROUND	MADE GROUND	MG-LF	MADE GROUND	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MADE GROUND	MADE GROUND	MADE GROUND	MG-LF	MADE GROUND	MADE GROUND	MADE GROUND	
						4	6	1	3	5	6	2	4	6	2	4	5	6	2	4	1	7	2	3	6
						ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
71-55-6	1,1,1-Trichloroethane	SOLID	#N/A	mg/kg	ug/kg				<140	<7			<7	<7		<70									
7440-39-3	Barium	SOLID	78.73	mg/kg	mg/kg													0.1							
74-83-9	Bromomethane	SOLID	#N/A	mg/kg	ug/kg				<200	<10			<10	<10		<100									
74-87-3	Chloromethane	SOLID	0.02	mg/kg	ug/kg				<140	<7			<7	<7		<70									
74-95-3	Dibromomethane	SOLID	#N/A	mg/kg	ug/kg				<180	<9			<9	<9		<90									
74-97-5	Bromochloromethane	SOLID	#N/A	mg/kg	ug/kg				<200	<10			<10	<10		<100									
75-00-3	Chloroethane	SOLID	#N/A	mg/kg	ug/kg				<200	<10			<10	<10		<100									
75-01-4	Vinyl Chloride	SOLID	#N/A	mg/kg	ug/kg				<120	<6			<6	<6		<60									
75-09-2	Dichloromethane	SOLID	0.03	mg/kg	ug/kg				<200	<10			43.9	93.3		<100									
75-15-0	Carbon Disulphide	SOLID	0.07	mg/kg	ug/kg				388.0	<7			24.2	39.3		<70									
75-25-2	Bromoform	SOLID	#N/A	mg/kg	ug/kg				<200	<10			<10	<10		<100									
75-27-4	Bromodichloromethane	SOLID	#N/A	mg/kg	ug/kg				<140	<7			<7	<7		<70									
75-34-3	1,1-Dichloroethane	SOLID	0.01	mg/kg	ug/kg				386.0	<8			<8	<8		<80									
75-35-4	1,1-Dichloroethene	SOLID	#N/A	mg/kg	ug/kg				<200	<10			<10	<10		<100									
75-69-4	Trichlorofluoromethane	SOLID	0.05	mg/kg	ug/kg				<120	<6			<6	<6		<60									
75-71-8	Dichlorodifluoromethane	SOLID	#N/A	mg/kg	ug/kg				<120	<6			<6	<6		<60									
77-47-4	Hexachlorocyclopentadiene	SOLID	#N/A	mg/kg	ug/kg				<200	<100			<100	<100		<100									
78-59-1	Isophorone	SOLID	22.26	mg/kg	ug/kg				<200	<100			<100	<100		<100									
78-87-5	1,2-Dichloropropane	SOLID	#N/A	mg/kg	ug/kg				<200	<10			<10	<10		<100									
79-00-5	1,1,2-Trichloroethane	SOLID	#N/A	mg/kg	ug/kg				<200	<10			<10	<10		<100									
79-01-6	Trichloroethene	SOLID	0.09	mg/kg	ug/kg				240.0	<9			<9	<9		<90									
79-34-5	1,1,2,2-Tetrachloroethane	SOLID	2.66	mg/kg	ug/kg				<200	<10			<10	<10		<100									
84-66-2	Diethyl phthalate	SOLID	3.11	mg/kg	ug/kg				<200	<100			<100	<100		<100									
84-74-2	Di-N-Butyl Phthalate	SOLID	0.52	mg/kg	ug/kg				4080.0	<100			428.0	<100		222.0									
85-68-7	Butylbenzyl phthalate	SOLID	23.36	mg/kg	ug/kg				14900.0	<100			<100	<100		<100									
86-74-8	Carbazole	SOLID	0.01	mg/kg	ug/kg				<200	<100			<100	<100		<100									
87-61-6	1,2,3-Trichlorobenzene	SOLID	#N/A	mg/kg	ug/kg				<400	<20			<20	<20		<200									
87-68-3	Hexachlorobutadiene	SOLID	#N/A	mg/kg	ug/kg				<200	<100			<100	<100		<100									
87-86-5	Pentachlorophenol	SOLID	2.17	mg/kg	ug/kg				<200	<100			<100	<100		<100									
88-06-2	2,4,6-Trichlorophenol	SOLID	#N/A	mg/kg	ug/kg				<200	<100			<100	<100		<100									
88-75-5	2-Nitrophenol	SOLID	0.03	mg/kg	ug/kg				<200	<100			<100	<100		<100									
91-57-6	2-Methylnaphthalene (SVOC) DEFAULT	SOLID	0.84	mg/kg	ug/kg				7960.0	<100			<100	<100		<100									
91-58-7	2-Chloronaphthalene	SOLID	0.92	mg/kg	ug/kg				<200	<100			<100	<100		<100									
95-47-6	Xylene	SOLID	0.23	mg/kg	ug/kg				<10	<10			<10	112.0		<100			<10		<10				45.0
95-48-7	2-Methylphenol	SOLID	0.54	mg/kg	ug/kg				<200	<100			<100	<100		<100									
95-49-8	2-Chlorotoluene	SOLID	#N/A	mg/kg	ug/kg				<180	<9			<9	<9		<90									
95-50-1	1,2-Dichlorobenzene	SOLID	40.42	mg/kg	ug/kg				<200	<10			<10	<10		<100									
95-57-8	2-Chlorophenol	SOLID	#N/A	mg/kg	ug/kg				<200	<100			<100	<100		<100									
95-63-6	1,2,4-Trimethylbenzene	SOLID	0.25	mg/kg	ug/kg				13100.0	<9			48.4	3080.0		<90									
95-95-4	2,4,5-Trichlorophenol	SOLID	60.93	mg/kg	ug/kg				<200	<100			<100	<100		<100									
96-12-8	1,2-Dibromo-3-chloropropane	SOLID	#N/A	mg/kg	ug/kg				<280	<14			<14	<14		<140									
96-18-4	1,2,3-Trichloropropane	SOLID	0.44	mg/kg	ug/kg				<320	<16			<16	<16		<160									
98-06-6	tert-Butylbenzene	SOLID	0.75	mg/kg	ug/kg				<280	<14			<14	<14		<140									
98-82-8	Isopropylbenzene	SOLID	0.27	mg/kg	ug/kg				372.0	<5			<5	51.7		<50									
98-95-3	Nitrobenzene	SOLID	0.00	mg/kg	ug/kg				<200	<100			<100	<100		<100									
99-87-6	4-Isopropyltoluene	SOLID	54.06	mg/kg	ug/kg				912.0	<10			<10	434.0		<100									
P1374	Xylene	SOLID	0.23	mg/kg	ug/kg				<10	<10			<10	181.0		<100			<10		<10			153.0	373.0
P1762	TPH Aromatic >C8-C10	SOLID	219.16	mg/kg	mg/kg																				
P1763	TPH Aromatic >C8-C10	SOLID	219.16	mg/kg	mg/kg																				
P1334	pH	SOLID	#N/A	mg/kg	pH																				
101-21-3	Chlorpropham	SOLID	#N/A	mg/kg	mg/kg																				
1014-70-6	Simetryn SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																				
1024-57-3	Heptachlor Epoxide	SOLID	#N/A	mg/kg	ug/kg					<1000															
1031-07-8	Endosulphan Sulphate	SOLID	#N/A	mg/kg	ug/kg					<1000															
117-18-0	Tecnazene	SOLID	#N/A	mg/kg	ug/kg					<1000															
120-36-5	2,4-DP; (Dichlorprop)	SOLID	#N/A	mg/kg	mg/kg					<0.01															
121-75-5	Malathion	SOLID	#N/A	mg/kg	ug/kg					<1000															
122-14-5	Fenitrothion	SOLID	#N/A	mg/kg	ug/kg					<1000															
122-34-9	Simazine SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg				</																

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Hole Ref	AEC18-LF-TP273	AEC18-LF-TP273	AEC18-LF-TP274	AEC18-LF-TP274	AEC18-LF-TP274	AEC18-LF-TP274	AEC18-LF-TP275	AEC18-LF-TP275	AEC18-LF-TP275	AEC18-LF-TP276	AEC18-LF-TP276	AEC18-LF-TP276	AEC18-LF-TP276	AEC18-LF-WS201	AEC18-LF-WS201	AEC18-LF-WS203	AEC18-LF-WS203	AEC18-LF-WS204	AEC18-LF-WS205A	AEC18-LF-WS205A
Sample Top	3.50	6.00	0.20	2.50	4.50	5.40	1.50	3.50	5.40	1.50	3.50	4.50	5.60	0.90	2.90	0.20	4.00	1.00	0.80	3.20
Lookup soil	MADE GROUND	MADE GROUND	MADE GROUND	MG-LF	MADE GROUND	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MADE GROUND	MADE GROUND	MADE GROUND	MG-LF	MADE GROUND	MADE GROUND	MADE GROUND
Sample Ref	4	6	1	3	5	6	2	4	6	2	4	5	6	2	4	1	7	2	3	6
Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES

Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	AEC18-LF-TP273	AEC18-LF-TP273	AEC18-LF-TP274	AEC18-LF-TP274	AEC18-LF-TP274	AEC18-LF-TP275	AEC18-LF-TP275	AEC18-LF-TP275	AEC18-LF-TP276	AEC18-LF-TP276	AEC18-LF-TP276	AEC18-LF-TP276	AEC18-LF-WS201	AEC18-LF-WS201	AEC18-LF-WS203	AEC18-LF-WS203	AEC18-LF-WS204	AEC18-LF-WS205A	AEC18-LF-WS205A	
1610-18-0	Prometon SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																				
16118-49-3	Carbetamide	SOLID	#N/A	mg/kg	mg/kg																				
1689-83-4	loxynil	SOLID	#N/A	mg/kg	mg/kg																				
1689-84-5	Bromoxynil	SOLID	#N/A	mg/kg	mg/kg																				
1702-17-6	Clopyralid	SOLID	#N/A	mg/kg	mg/kg																				
1746-81-2	Monolinuron	SOLID	#N/A	mg/kg	mg/kg																				
18691-97-9	Methabenzthiazuron	SOLID	#N/A	mg/kg	mg/kg																				
1897-45-6	Chlorothalonil	SOLID	#N/A	mg/kg	ug/kg																				
1912-24-9	Atrazine SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																				
1918-00-9	Dicamba	SOLID	#N/A	mg/kg	mg/kg																				
6607	Picloram	SOLID	#N/A	mg/kg	mg/kg																				
1967-16-4	Chlorbufam	SOLID	#N/A	mg/kg	mg/kg																				
1982-47-4	Chloroxuron	SOLID	#N/A	mg/kg	mg/kg																				
19937-59-8	Metoxuron	SOLID	#N/A	mg/kg	mg/kg																				
2132-70-9	p,p-Methoxychlor	SOLID	#N/A	mg/kg	ug/kg																				
2274-67-1	Chlorpyrifos-methyl	SOLID	#N/A	mg/kg	ug/kg																				
2303-17-5	Triallate	SOLID	#N/A	mg/kg	ug/kg																				
2310-17-0	Phosalone	SOLID	#N/A	mg/kg	ug/kg																				
23103-98-2	Pirimicarb	SOLID	#N/A	mg/kg	mg/kg																				
24017-47-8	Triazophos	SOLID	#N/A	mg/kg	ug/kg																				
25057-89-0	Bentazone	SOLID	#N/A	mg/kg	mg/kg																				
2642-71-9	Azinphos-ethyl	SOLID	#N/A	mg/kg	ug/kg																				
2921-88-2	Chlorpyrifos	SOLID	#N/A	mg/kg	ug/kg																				
29232-93-7	Pirimiphos Methyl	SOLID	#N/A	mg/kg	ug/kg																				
297-78-9	Telodrin	SOLID	#N/A	mg/kg	ug/kg																				
298-00-0	Methyl Parathion	SOLID	#N/A	mg/kg	ug/kg																				
298-01-1	Mevinphos	SOLID	#N/A	mg/kg	ug/kg																				
298-04-4	Disulfoton SUBCON OCP Alcontrol	SOLID	#N/A	mg/kg	ug/kg																				
29973-13-5	Ethiofencarb	SOLID	#N/A	mg/kg	mg/kg																				
30667-99-3	o,p-Methoxychlor	SOLID	#N/A	mg/kg	ug/kg																				
309-00-2	Aldrin SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																				
31218-83-4	Propetamphos	SOLID	#N/A	mg/kg	ug/kg																				
314-40-9	Bromacil	SOLID	#N/A	mg/kg	mg/kg																				
319-84-6	alpha-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																				
319-85-7	beta-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																				
330-54-1	Diuron SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																				
330-55-2	Linuron	SOLID	#N/A	mg/kg	mg/kg																				
33213-65-9	Endosulphan II	SOLID	#N/A	mg/kg	ug/kg																				
333-41-5	Diazinon	SOLID	#N/A	mg/kg	ug/kg																				
34123-59-6	Isoproturon	SOLID	#N/A	mg/kg	mg/kg																				
34205-21-5	Dimefuron	SOLID	#N/A	mg/kg	mg/kg																				
3424-82-6	o,p-DDE	SOLID	#N/A	mg/kg	ug/kg																				
35367-38-5	Diflufenzuron	SOLID	#N/A	mg/kg	mg/kg																				
698836	Benazolin	SOLID	#N/A	mg/kg	mg/kg																				
38260-54-7	Etrimpfos	SOLID	#N/A	mg/kg	ug/kg																				
40483-25-2	Diclofop	SOLID	#N/A	mg/kg	mg/kg																				
40487-42-1	Pendimethalin	SOLID	#N/A	mg/kg	ug/kg																				
43121-43-3	Triadimefon	SOLID	#N/A	mg/kg	ug/kg																				
465-73-6	Isodrin	SOLID	#N/A	mg/kg	ug/kg																				
470-90-6	Chlorfenvinphos	SOLID	#N/A	mg/kg	ug/kg																				
50-29-3	p,p-DDT SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																				
50-31-7	2,3,6-TBA	SOLID	#N/A	mg/kg	mg/kg																				
5103-71-9	cis-Chlordane SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																				
5103-74-2	trans-Chlordane SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																				
51630-58-1	Fenvalerate SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																				
52315-07-8	Cypermethrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																				
52645-53-1	Permethrin SUBCON RPS MH Pyrethroids	SOLID	#N/A	mg/kg	mg/kg																				
52756-22-6	Flamprop-isopropyl	SOLID	#N/A	mg/kg	mg/kg																				
52918-63-5	Deltamethrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																				
53-19-0	o,p-TDE (DDD)	SOLID	#N/A	mg/kg	ug/kg																				
55335-06-3	Triclopyr	SOLID	#N/A	mg/kg	mg/kg																				
55-38-9	Fenthion	SOLID	#N/A	mg/kg	ug/kg																				
563-12-2	Ethion	SOLID	#N/A	mg/kg	ug/kg																				
56-38-2	Parathion (Ethyl Parathion)	SOLID	#N/A	mg/kg	ug/kg																				
58667-63-3	Fiamprop	SOLID	#N/A	mg/kg	mg/kg																				

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					Hole Ref	AEC18-LF-TP273	AEC18-LF-TP273	AEC18-LF-TP274	AEC18-LF-TP274	AEC18-LF-TP274	AEC18-LF-TP274	AEC18-LF-TP275	AEC18-LF-TP275	AEC18-LF-TP275	AEC18-LF-TP276	AEC18-LF-TP276	AEC18-LF-TP276	AEC18-LF-TP276	AEC18-LF-WS201	AEC18-LF-WS201	AEC18-LF-WS203	AEC18-LF-WS203	AEC18-LF-WS204	AEC18-LF-WS205A	AEC18-LF-WS205A
					Sample Top	3.50	6.00	0.20	2.50	4.50	5.40	1.50	3.50	5.40	1.50	3.50	4.50	5.60	0.90	2.90	0.20	4.00	1.00	0.80	3.20
					Lookup soil	MADE GROUND	MADE GROUND	MADE GROUND	MG-LF	MADE GROUND	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MG-LF	MADE GROUND	MADE GROUND	MADE GROUND	MG-LF	MADE GROUND	MADE GROUND	MADE GROUND
					Sample Ref	4	6	1	3	5	6	2	4	6	2	4	5	6	2	4	1	7	2	3	6
Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
103-33-3	Azobenzene	SOLID - INITIAL	0.38	mg/kg	ug/kg				<200	<100			<100	<100		<100									
106-47-8	4-Chloroaniline	SOLID - INITIAL	0.01	mg/kg	ug/kg				<200	<100			<100	<100		<100									
700-57-23	4-Chlorophenylphenylether	SOLID - INITIAL	#N/A	mg/kg	ug/kg				<200	<100			<100	<100		<100									
88-74-4	2-Nitroaniline	SOLID - INITIAL	0.01	mg/kg	ug/kg				<200	<100			<100	<100		<100									
99-09-2	3-Nitroaniline	SOLID - INITIAL	#N/A	mg/kg	ug/kg				<200	<100			<100	<100		<100									
994-05-8	Tertiary Amyl Methyl Ether	SOLID - INITIAL	#N/A	mg/kg	ug/kg				<200	<10			<10	<10		<100									
1336-36-6	PCB Total (WAC only)	SOLID	#N/A	mg/kg	mg/kg																				
P1330	BTEX (total) WAC	SOLID	#N/A	mg/kg	mg/kg																				

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Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	AEC18-LF-WS206A	AEC18-LF-WS206A	AEC18-LF-WS207	AEC18-LF-WS207	AEC18-LF-WS207	AEC18-LF-WS208A	AEC18-LF-WS208A	AEC18-LF-WS209	AEC18-LF-WS209	AEC18-LF-WS209	AEC18-LF-WS210	AEC18-LF-WS210	AEC18-LF-WS210	AEC18-LF-WS211	AEC18-LF-WS211	AEC18-LF-WS212	AEC18-LF-WS212	AEC18-LF-WS213	AEC18-LF-WS213	AEC18-LF-WS214
						ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
108-67-8	1,3,5-Trimethylbenzene	SOLID - INITIAL	0.15	mg/kg	mg/kg																				
108-86-1	Bromobenzene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
108-90-7	Chlorobenzene	SOLID - INITIAL	4.46	mg/kg	mg/kg																				
108-95-2	Phenol	SOLID - INITIAL	0.04	mg/kg	mg/kg	<0.01		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	0.0	<0.01	<0.01
111-91-1	Bis(2-chloroethoxy)methane	SOLID - INITIAL	0.01	mg/kg	mg/kg																				
117-81-7	Bis(2-ethylhexyl)phthalate	SOLID - INITIAL	18472.17	mg/kg	mg/kg																				
117-84-0	Di-N-Octyl Phthalate	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
118-74-1	Hexachlorobenzene (HCB)	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
120-82-1	1,2,4-Trichlorobenzene	SOLID - INITIAL	1.81	mg/kg	mg/kg																				
120-83-2	2,4-Dichlorophenol	SOLID - INITIAL	0.28	mg/kg	mg/kg																				
121-14-2	2,4-Dinitrotoluene	SOLID - INITIAL	0.00	mg/kg	mg/kg																				
122-39-4	Diphenylamine	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
124-48-1	Dibromochloromethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
127-18-4	Tetrachloroethene	SOLID - INITIAL	1.46	mg/kg	mg/kg																				
131-11-3	Dimethylphthalate	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
132-64-9	Dibenzofuran	SOLID - INITIAL	0.49	mg/kg	mg/kg																				
135-98-8	Sec-Butylbenzene	SOLID - INITIAL	1.39	mg/kg	mg/kg																				
142-28-9	1,3-Dichloropropane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
156-59-2	cis-1,2-Dichloroethene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
156-60-5	trans-1,2-Dichloroethene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
1634-04-4	Methyl tert-butyl ether (MTBE)	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
39638-32-9	Bis(2-chloroisopropyl)ether	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
528-29-0	O-Dinitrobenzene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
534-52-1	2-Methyl-4,6-Dinitrophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
541-73-1	1,3-Dichlorobenzene	SOLID - INITIAL	145.60	mg/kg	mg/kg																				
56-23-5	Tetrachloromethane (Carbon Tetra Chloride)	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
563-58-6	1,1-Dichloropropene	SOLID - INITIAL	0.41	mg/kg	mg/kg																				
58-90-2	2,3,4,6-Tetrachlorophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
594-20-7	2,2-Dichloropropane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
59-50-7	4-Chloro-3-Methylphenol	SOLID - INITIAL	2.93	mg/kg	mg/kg																				
606-20-2	2,6-Dinitrotoluene	SOLID - INITIAL	1.48	mg/kg	mg/kg																				
62-53-3	Aniline	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
630-20-6	1,1,1,2-Tetrachloroethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
67-66-3	Chloroform	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
700-57-23	4-Chlorophenyl Phenyl Ether	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
71-55-6	1,1,1-Trichloroethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
74-95-3	Dibromomethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
74-97-5	Bromochloromethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
75-01-4	Chloroethene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
75-25-2	Tribromomethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
75-27-4	Bromodichloromethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
75-34-3	1,1-Dichloroethane	SOLID - INITIAL	0.01	mg/kg	mg/kg																				
75-35-4	1,1-Dichloroethene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
77-47-4	Hexachlorocyclopentadiene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
78-87-5	1,2-Dichloropropane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
79-00-5	1,1,2-Trichloroethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
79-01-6	Trichloroethene	SOLID - INITIAL	0.09	mg/kg	mg/kg																				
84-66-2	Diethylphthalate	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
84-74-2	Di-N-Butyl Phthalate	SOLID - INITIAL	0.52	mg/kg	mg/kg																				
85-68-7	Butylbenzylphthalate	SOLID - INITIAL	23.36	mg/kg	mg/kg																				
86-74-8	Carbazole	SOLID - INITIAL	0.01	mg/kg	mg/kg																				
87-61-6	1,2,3 Trichlorobenzene	SOLID - INITIAL	0.26	mg/kg	mg/kg																				
87-68-3	Hexachlorobutadiene (HCBd)	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
87-86-5	Pentachlorophenol (PCP)	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
88-06-2	2,4,6-Trichlorophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
88-74-4	2-Nitroaniline	SOLID - INITIAL	0.01	mg/kg	mg/kg																				
91-57-6	2-Methylnaphthalene	SOLID - INITIAL	0.84	mg/kg	mg/kg																				
91-58-7	2-Chloronaphthalene	SOLID - INITIAL	0.92	mg/kg	mg/kg																				
935-95-5	2,3,5,6-Tetrachlorophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
95-47-6	Xylene	SOLID - INITIAL	0.23	mg/kg	mg/kg																				
95-48-7	2-Methylphenol	SOLID - INITIAL	0.54	mg/kg	mg/kg																				
95-49-8	2-Chlorotoluene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
95-50-1	1,2-Dichlorobenzene	SOLID - INITIAL	40.42	mg/kg	mg/kg																				
95-57-8	2-Chlorophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
95-63-6	1,2,4-Trimethylbenzene	SOLID - INITIAL	0.25	mg/kg	mg/kg																				
95-95-4	2,4,5-Trichlorophenol	SOLID - INITIAL	60.93	mg/kg	mg/kg																				
96-12-8	1,2-Dibromo-3-Chloropropane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
96-18-4	1,2,3-Trichloropropane	SOLID - INITIAL	0.44	mg/kg	mg/kg																				

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Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	AEC18-LF-WS206A	AEC18-LF-WS206A	AEC18-LF-WS207	AEC18-LF-WS207	AEC18-LF-WS207	AEC18-LF-WS208A	AEC18-LF-WS208A	AEC18-LF-WS209	AEC18-LF-WS209	AEC18-LF-WS209	AEC18-LF-WS210	AEC18-LF-WS210	AEC18-LF-WS210	AEC18-LF-WS211	AEC18-LF-WS211	AEC18-LF-WS212	AEC18-LF-WS212	AEC18-LF-WS213	AEC18-LF-WS213	AEC18-LF-WS214
						ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
98-06-6	Tert-Butylbenzene	SOLID - INITIAL	0.75	mg/kg	mg/kg																				
98-82-8	Isopropylbenzene	SOLID - INITIAL	0.27	mg/kg	mg/kg																				
99-09-2	3-Nitroaniline	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
99-65-0	M-Dinitrobenzene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
99-87-6	4-Isopropyltoluene	SOLID - INITIAL	54.06	mg/kg	mg/kg																				
P1374	xylene	SOLID - INITIAL	0.23	mg/kg	mg/kg																				
18540-29-9	chromium hexavalent	SOLID - INITIAL	0.02	mg/kg	mg/kg							<0.6													
P1095	Cyanide Free	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
P1239	Complex Cyanide	SOLID - INITIAL	0.26	mg/kg	mg/kg																				
31508-00-6	PCB-118 2,3,4,4,5 - Pentachlorobiphenyl	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
32598-13-3	PCB 77	SOLID - INITIAL	6185.41	mg/kg	mg/kg																				
32598-14-4	PCB 105	SOLID - INITIAL	8940.63	mg/kg	mg/kg																				
32774-16-6	PCB 169	SOLID - INITIAL	37270.75	mg/kg	mg/kg																				
38380-08-4	PCB-156 2,3,3,4,4,5 - Hexachlorobiphenyl	SOLID - INITIAL	3172.26	mg/kg	mg/kg																				
39635-31-9	PCB 189	SOLID - INITIAL	270002.64	mg/kg	mg/kg																				
52663-72-6	PCB 167	SOLID - INITIAL	45853.03	mg/kg	mg/kg																				
57465-28-8	PCB 126	SOLID - INITIAL	8940.63	mg/kg	mg/kg																				
65510-44-3	PCB 123	SOLID - INITIAL	8940.63	mg/kg	mg/kg																				
69782-90-7	PCB 157	SOLID - INITIAL	45853.03	mg/kg	mg/kg																				
70362-50-4	PCB 81	SOLID - INITIAL	8940.63	mg/kg	mg/kg																				
74472-37-0	PCB 114	SOLID - INITIAL	8940.63	mg/kg	mg/kg																				
100-02-7	4-Nitrophenol	SOLID	0.04	mg/kg	ug/kg		<1000																		
100-41-4	Ethylbenzene	SOLID	0.53	mg/kg	ug/kg		12.4	<4		<4					211.0										
100-42-5	Styrene	SOLID	1.04	mg/kg	ug/kg		<10																		<4
10061-01-5	cis 1,3-Dichloropropene	SOLID	#N/A	mg/kg	ug/kg		<10																		
10061-02-6	trans 1,3-Dichloropropene	SOLID	#N/A	mg/kg	ug/kg		<10																		
103-65-1	Propylbenzene	SOLID	0.28	mg/kg	ug/kg		90.0																		
104-51-8	n-Butylbenzene	SOLID	1.39	mg/kg	ug/kg		<11																		
105-67-9	2,4-Dimethylphenol	SOLID	1.18	mg/kg	ug/kg		<1000																		
106-43-4	4-Chlorotoluene	SOLID	#N/A	mg/kg	ug/kg		<10																		
106-44-5	4-Methylphenol	SOLID	0.53	mg/kg	ug/kg		<1000																		
106-46-7	1,4-Dichlorobenzene	SOLID	48.01	mg/kg	ug/kg		29.6																		
106-93-4	1,2-Dibromoethane	SOLID	#N/A	mg/kg	ug/kg		<10																		
107-06-2	1,2-Dichloroethane	SOLID	#N/A	mg/kg	ug/kg		<5																		
108-67-8	1,3,5-Trimethylbenzene	SOLID	0.15	mg/kg	ug/kg		416.0																		
108-86-1	Bromobenzene	SOLID	#N/A	mg/kg	ug/kg		<10																		
108-88-3	Toluene	SOLID	0.88	mg/kg	ug/kg		<7	<7		<7															
108-90-7	Chlorobenzene	SOLID	4.46	mg/kg	ug/kg		<5																		
108-95-2	Phenol	SOLID	0.04	mg/kg	ug/kg		2430.0																		
111-44-4	Bis(2-chloroethyl)ether	SOLID	#N/A	mg/kg	ug/kg		<1000																		
111-91-1	Bis(2-chloroethoxy)methane	SOLID	0.01	mg/kg	ug/kg		<1000																		
117-81-7	Bis(2-ethylhexyl)phthalate	SOLID	18472.17	mg/kg	ug/kg		707000.0																		
117-84-0	n-Dioctylphthalate	SOLID	146035.35	mg/kg	ug/kg		<1000																		
118-74-1	Hexachlorobenzene	SOLID	0.23	mg/kg	ug/kg		<1000					<50													
120-82-1	1,2,4-Trichlorobenzene	SOLID	1.81	mg/kg	ug/kg		<1000																		
120-83-2	2,4-Dichlorophenol	SOLID	0.28	mg/kg	ug/kg		<1000																		
121-14-2	2,4-Dinitrotoluene	SOLID	0.00	mg/kg	ug/kg		<1000																		
124-48-1	Dibromochloromethane	SOLID	#N/A	mg/kg	ug/kg		<10																		
127-18-4	Tetrachloroethene	SOLID	1.46	mg/kg	ug/kg		<5																		
131-11-3	Dimethyl phthalate	SOLID	#N/A	mg/kg	ug/kg		<1000																		
132-64-9	Dibenzofuran	SOLID	0.49	mg/kg	ug/kg		<1000																		
135-98-8	sec-Butylbenzene	SOLID	1.39	mg/kg	ug/kg		16.4																		
142-28-9	1,3-Dichloropropane	SOLID	#N/A	mg/kg	ug/kg		<7																		
156-59-2	cis 1,2-Dichloroethene	SOLID	0.31	mg/kg	ug/kg		<6																		
156-60-5	trans 1,2-Dichloroethene	SOLID	#N/A	mg/kg	ug/kg		<10																		
198-55-0	Perylene	SOLID	206.28	mg/kg	ug/kg																				
39638-32-9	Bis(2-chloroisopropyl)ether	SOLID	#N/A	mg/kg	ug/kg		<1000																		
541-73-1	1,3-Dichlorobenzene	SOLID	145.60	mg/kg	ug/kg		<1000																		
56-23-5	Carbon Tetrachloride	SOLID	#N/A	mg/kg	ug/kg		<10																		
563-58-6	1,1-Dichloropropene	SOLID	0.41	mg/kg	ug/kg		<10																		
594-20-7	2,2-Dichloropropane	SOLID	#N/A	mg/kg	ug/kg		<10																		
59-50-7	4-Chloro-3-methylphenol	SOLID	2.93	mg/kg	ug/kg		<1000																		
606-20-2	2,6-Dinitrotoluene	SOLID	1.48	mg/kg	ug/kg		<1000																		
621-64-7	n-Nitroso-n-dipropylamine	SOLID	#N/A	mg/kg	ug/kg		<1000																		
630-20-6	1,1,1,2-Tetrachloroethane	SOLID	#N/A	mg/kg	ug/kg		<10																		
67-66-3	Chloroform	SOLID	#N/A	mg/kg	ug/kg		<8																		
67-72-1	Hexachloroethane	SOLID	3.21	mg/kg	ug/kg		<1000																		
71-43-2	Benzene	SOLID	0.00	mg/kg	ug/kg		<9	<9		<9															

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Hole Ref	AEC18-LF-WS206A	AEC18-LF-WS206A	AEC18-LF-WS207	AEC18-LF-WS207	AEC18-LF-WS207	AEC18-LF-WS208A	AEC18-LF-WS208A	AEC18-LF-WS209	AEC18-LF-WS209	AEC18-LF-WS209	AEC18-LF-WS210	AEC18-LF-WS210	AEC18-LF-WS210	AEC18-LF-WS211	AEC18-LF-WS211	AEC18-LF-WS212	AEC18-LF-WS212	AEC18-LF-WS213	AEC18-LF-WS213	AEC18-LF-WS214
Sample Top	0.70	4.60	0.10	2.10	4.20	0.30	2.20	0.30	0.90	3.90	0.00	2.20	3.50	1.00	4.40	0.40	3.00	1.00	2.40	1.40
Lookup soil	MADE GROUND	MG-LF	MADE GROUND	MADE GROUND	MG-LF	TS	MADE GROUND	MADE GROUND	MADE GROUND	MG-LF	TS	MG-LF	MG-LF	MADE GROUND	MG-LF	MADE GROUND	ZCL	MADE GROUND	MG-LF	MADE GROUND
Sample Ref	2	5	1	3	5	1	3	1	2	4	1	4	6	2	6	1	3	2	4	4

Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	AEC18-LF-WS206A	AEC18-LF-WS206A	AEC18-LF-WS207	AEC18-LF-WS207	AEC18-LF-WS207	AEC18-LF-WS208A	AEC18-LF-WS208A	AEC18-LF-WS209	AEC18-LF-WS209	AEC18-LF-WS209	AEC18-LF-WS210	AEC18-LF-WS210	AEC18-LF-WS210	AEC18-LF-WS211	AEC18-LF-WS211	AEC18-LF-WS212	AEC18-LF-WS212	AEC18-LF-WS213	AEC18-LF-WS213	AEC18-LF-WS214	
1610-18-0	Prometon SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																					
16118-49-3	Carbetamide	SOLID	#N/A	mg/kg	mg/kg																					
1689-83-4	loxynil	SOLID	#N/A	mg/kg	mg/kg																					
1689-84-5	Bromoxynil	SOLID	#N/A	mg/kg	mg/kg																					
1702-17-6	Clopyralid	SOLID	#N/A	mg/kg	mg/kg																					
1746-81-2	Monolinuron	SOLID	#N/A	mg/kg	mg/kg																					
18691-97-9	Methabenzthiazuron	SOLID	#N/A	mg/kg	mg/kg																					
1897-45-6	Chlorothalonil	SOLID	#N/A	mg/kg	ug/kg							<50														
1912-24-9	Atrazine SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																					
1918-00-9	Dicamba	SOLID	#N/A	mg/kg	mg/kg																					
6607	Picloram	SOLID	#N/A	mg/kg	mg/kg																					
1967-16-4	Chlorbufam	SOLID	#N/A	mg/kg	mg/kg																					
1982-47-4	Chloroxuron	SOLID	#N/A	mg/kg	mg/kg																					
19937-59-8	Metoxuron	SOLID	#N/A	mg/kg	mg/kg																					
2132-70-9	p,p-Methoxychlor	SOLID	#N/A	mg/kg	ug/kg																					
2274-67-1	Chlorpyrifos-methyl	SOLID	#N/A	mg/kg	ug/kg							<50														
2303-17-5	Triallate	SOLID	#N/A	mg/kg	ug/kg							<50														
2310-17-0	Phosalone	SOLID	#N/A	mg/kg	ug/kg							<50														
23103-98-2	Pirimicarb	SOLID	#N/A	mg/kg	mg/kg																					
24017-47-8	Triazophos	SOLID	#N/A	mg/kg	ug/kg							<50														
25057-89-0	Bentazone	SOLID	#N/A	mg/kg	mg/kg																					
2642-71-9	Azinphos-ethyl	SOLID	#N/A	mg/kg	ug/kg							<50														
2921-88-2	Chlorpyrifos	SOLID	#N/A	mg/kg	ug/kg							<50														
29232-93-7	Pirimiphos Methyl	SOLID	#N/A	mg/kg	ug/kg							<50														
297-78-9	Telodrin	SOLID	#N/A	mg/kg	ug/kg							<50														
298-00-0	Methyl Parathion	SOLID	#N/A	mg/kg	ug/kg							<50														
298-01-1	Mevinphos	SOLID	#N/A	mg/kg	ug/kg							<50														
298-04-4	Disulfoton SUBCON OCP Alcontrol	SOLID	#N/A	mg/kg	ug/kg							<50														
29973-13-5	Ethiofencarb	SOLID	#N/A	mg/kg	mg/kg																					
30667-99-3	o,p-Methoxychlor	SOLID	#N/A	mg/kg	ug/kg							<50														
309-00-2	Aldrin SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg							<50														
31218-83-4	Propetamphos	SOLID	#N/A	mg/kg	ug/kg							<50														
314-40-9	Bromacil	SOLID	#N/A	mg/kg	mg/kg																					
319-84-6	alpha-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg							<50														
	beta-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg							<50														
319-85-7		SOLID	#N/A	mg/kg	ug/kg																					
330-54-1	Diuron SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																					
330-55-2	Linuron	SOLID	#N/A	mg/kg	mg/kg																					
33213-65-9	Endosulphan II	SOLID	#N/A	mg/kg	ug/kg							<50														
333-41-5	Diazinon	SOLID	#N/A	mg/kg	ug/kg							<50														
34123-59-6	Isoproturon	SOLID	#N/A	mg/kg	mg/kg																					
34205-21-5	Dimefuron	SOLID	#N/A	mg/kg	mg/kg																					
3424-82-6	o,p-DDE	SOLID	#N/A	mg/kg	ug/kg							<50														
35367-38-5	Diflufenzuron	SOLID	#N/A	mg/kg	mg/kg																					
698836	Benazolin	SOLID	#N/A	mg/kg	mg/kg																					
38260-54-7	Etrimpfos	SOLID	#N/A	mg/kg	ug/kg							<50														
40483-25-2	Diclofop	SOLID	#N/A	mg/kg	mg/kg																					
40487-42-1	Pendimethalin	SOLID	#N/A	mg/kg	ug/kg							<50														
43121-43-3	Triadimefon	SOLID	#N/A	mg/kg	ug/kg							<50														
465-73-6	Isodrin	SOLID	#N/A	mg/kg	ug/kg							<50														
470-90-6	Chlorfenvinphos	SOLID	#N/A	mg/kg	ug/kg							<50														
50-29-3	p,p-DDT SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg							<50														
50-31-7	2,3,6-TBA	SOLID	#N/A	mg/kg	mg/kg																					
5103-71-9	cis-Chlordane SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg							<50														
5103-74-2	trans-Chlordane SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg							<50														
51630-58-1	Fenvalerate SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																					
52315-07-8	Cypermethrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																					
52645-53-1	Permethrin SUBCON RPS MH Pyrethroids	SOLID	#N/A	mg/kg	mg/kg																					
52756-22-6	Flamprop-isopropyl	SOLID	#N/A	mg/kg	mg/kg																					
52918-63-5	Deltamethrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																					
53-19-0	o,p-TDE (DDD)	SOLID	#N/A	mg/kg	ug/kg							<50														
55335-06-3	Triclopyr	SOLID	#N/A	mg/kg	mg/kg																					
55-38-9	Fenthion	SOLID	#N/A	mg/kg	ug/kg							<50														
563-12-2	Ethion	SOLID	#N/A	mg/kg	ug/kg							<50														
56-38-2	Parathion (Ethyl Parathion)	SOLID	#N/A	mg/kg	ug/kg							<50														
58667-63-3	Fiamprop	SOLID	#N/A	mg/kg	mg/kg																					

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					Hole Ref	AEC18-LF-WS206A	AEC18-LF-WS206A	AEC18-LF-WS207	AEC18-LF-WS207	AEC18-LF-WS207	AEC18-LF-WS208A	AEC18-LF-WS208A	AEC18-LF-WS209	AEC18-LF-WS209	AEC18-LF-WS209	AEC18-LF-WS210	AEC18-LF-WS210	AEC18-LF-WS210	AEC18-LF-WS211	AEC18-LF-WS211	AEC18-LF-WS212	AEC18-LF-WS212	AEC18-LF-WS213	AEC18-LF-WS213	AEC18-LF-WS214
					Sample Top	0.70	4.60	0.10	2.10	4.20	0.30	2.20	0.30	0.90	3.90	0.00	2.20	3.50	1.00	4.40	0.40	3.00	1.00	2.40	1.40
					Lookup soil	MADE GROUND	MG-LF	MADE GROUND	MADE GROUND	MG-LF	TS	MADE GROUND	MADE GROUND	MADE GROUND	MG-LF	TS	MG-LF	MG-LF	MADE GROUND	MG-LF	MADE GROUND	ZCL	MADE GROUND	MG-LF	MADE GROUND
					Sample Ref	2	5	1	3	5	1	3	1	2	4	1	4	6	2	6	1	3	2	4	4
Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
103-33-3	Azobenzene	SOLID - INITIAL	0.38	mg/kg	ug/kg																				
106-47-8	4-Chloroaniline	SOLID - INITIAL	0.01	mg/kg	ug/kg																				
700-57-23	4-Chlorophenylphenylether	SOLID - INITIAL	#N/A	mg/kg	ug/kg																				
88-74-4	2-Nitroaniline	SOLID - INITIAL	0.01	mg/kg	ug/kg																				
99-09-2	3-Nitroaniline	SOLID - INITIAL	#N/A	mg/kg	ug/kg																				
994-05-8	Tertiary Amyl Methyl Ether	SOLID - INITIAL	#N/A	mg/kg	ug/kg																				
1336-36-6	PCB Total (WAC only)	SOLID	#N/A	mg/kg	mg/kg																				
P1330	BTEX (total) WAC	SOLID	#N/A	mg/kg	mg/kg																				

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Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	AEC18-LF-WS214	AEC18-LF-WS215A	AEC18-LF-WS215A	AEC18-LF-WS216	AEC18-LF-WS216	AEC18-LF-WS217	AEC18-LF-WS217B	AEC18-LF-WS218	AEC18-LF-WS218	AEC18-LF-WS219	AEC18-LF-WS219	AEC18-LF-WS220	AEC18-LF-WS220	AEC18-LF-WS221	AEC18-LF-WS221	AEC18-LF-WS222	AEC18-LF-WS222	AEC18-LF-WS223	AEC18-LF-WS223	AEC18-LF-WS224
						Sample Top	Lookup soil	Sample Ref	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
108-67-8	1,3,5-Trimethylbenzene	SOLID - INITIAL	0.15	mg/kg	mg/kg																				
108-86-1	Bromobenzene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
108-90-7	Chlorobenzene	SOLID - INITIAL	4.46	mg/kg	mg/kg																				
108-95-2	Phenol	SOLID - INITIAL	0.04	mg/kg	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.3	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
111-91-1	Bis(2-chloroethoxy)methane	SOLID - INITIAL	0.01	mg/kg	mg/kg																				
117-81-7	Bis(2-ethylhexyl)phthalate	SOLID - INITIAL	18472.17	mg/kg	mg/kg																				
117-84-0	Di-N-Octyl Phthalate	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
118-74-1	Hexachlorobenzene (HCB)	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
120-82-1	1,2,4-Trichlorobenzene	SOLID - INITIAL	1.81	mg/kg	mg/kg																				
120-83-2	2,4-Dichlorophenol	SOLID - INITIAL	0.28	mg/kg	mg/kg																				
121-14-2	2,4-Dinitrotoluene	SOLID - INITIAL	0.00	mg/kg	mg/kg																				
122-39-4	Diphenylamine	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
124-48-1	Dibromochloromethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
127-18-4	Tetrachloroethene	SOLID - INITIAL	1.46	mg/kg	mg/kg																				
131-11-3	Dimethylphthalate	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
132-64-9	Dibenzofuran	SOLID - INITIAL	0.49	mg/kg	mg/kg																				
135-98-8	Sec-Butylbenzene	SOLID - INITIAL	1.39	mg/kg	mg/kg																				
142-28-9	1,3-Dichloropropane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
156-59-2	cis-1,2-Dichloroethene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
156-60-5	trans-1,2-Dichloroethene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
1634-04-4	Methyl tert-butyl ether (MTBE)	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
39638-32-9	Bis(2-chloroisopropyl)ether	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
528-29-0	O-Dinitrobenzene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
534-52-1	2-Methyl-4,6-Dinitrophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
541-73-1	1,3-Dichlorobenzene	SOLID - INITIAL	145.60	mg/kg	mg/kg																				
56-23-5	Tetrachloromethane (Carbon Tetra Chloride)	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
563-58-6	1,1-Dichloropropene	SOLID - INITIAL	0.41	mg/kg	mg/kg																				
58-90-2	2,3,4,6-Tetrachlorophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
594-20-7	2,2-Dichloropropane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
59-50-7	4-Chloro-3-Methylphenol	SOLID - INITIAL	2.93	mg/kg	mg/kg																				
606-20-2	2,6-Dinitrotoluene	SOLID - INITIAL	1.48	mg/kg	mg/kg																				
62-53-3	Aniline	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
630-20-6	1,1,1,2-Tetrachloroethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
67-66-3	Chloroform	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
700-57-23	4-Chlorophenyl Phenyl Ether	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
71-55-6	1,1,1-Trichloroethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
74-95-3	Dibromomethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
74-97-5	Bromochloromethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
75-01-4	Chloroethene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
75-25-2	Tribromomethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
75-27-4	Bromodichloromethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
75-34-3	1,1-Dichloroethane	SOLID - INITIAL	0.01	mg/kg	mg/kg																				
75-35-4	1,1-Dichloroethene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
77-47-4	Hexachlorocyclopentadiene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
78-87-5	1,2-Dichloropropane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
79-00-5	1,1,2-Trichloroethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
79-01-6	Trichloroethene	SOLID - INITIAL	0.09	mg/kg	mg/kg																				
84-66-2	Diethylphthalate	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
84-74-2	Di-N-Butyl Phthalate	SOLID - INITIAL	0.52	mg/kg	mg/kg																				
85-68-7	Butylbenzylphthalate	SOLID - INITIAL	23.36	mg/kg	mg/kg																				
86-74-8	Carbazole	SOLID - INITIAL	0.01	mg/kg	mg/kg																				
87-61-6	1,2,3 Trichlorobenzene	SOLID - INITIAL	0.26	mg/kg	mg/kg																				
87-68-3	Hexachlorobutadiene (HCBd)	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
87-86-5	Pentachlorophenol (PCP)	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
88-06-2	2,4,6-Trichlorophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
88-74-4	2-Nitroaniline	SOLID - INITIAL	0.01	mg/kg	mg/kg																				
91-57-6	2-Methylnaphthalene	SOLID - INITIAL	0.84	mg/kg	mg/kg																				
91-58-7	2-Chloronaphthalene	SOLID - INITIAL	0.92	mg/kg	mg/kg																				
935-95-5	2,3,5,6-Tetrachlorophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
95-47-6	Xylene	SOLID - INITIAL	0.23	mg/kg	mg/kg																				
95-48-7	2-Methylphenol	SOLID - INITIAL	0.54	mg/kg	mg/kg																				
95-49-8	2-Chlorotoluene	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
95-50-1	1,2-Dichlorobenzene	SOLID - INITIAL	40.42	mg/kg	mg/kg																				
95-57-8	2-Chlorophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
95-63-6	1,2,4-Trimethylbenzene	SOLID - INITIAL	0.25	mg/kg	mg/kg																				
95-95-4	2,4,5-Trichlorophenol	SOLID - INITIAL	60.93	mg/kg	mg/kg																				
96-12-8	1,2-Dibromo-3-Chloropropane	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
96-18-4	1,2,3-Trichloropropane	SOLID - INITIAL	0.44	mg/kg	mg/kg																				

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Hole Ref	AEC18-LF-WS214	AEC18-LF-WS215A	AEC18-LF-WS215A	AEC18-LF-WS216	AEC18-LF-WS216	AEC18-LF-WS217	AEC18-LF-WS217B	AEC18-LF-WS218	AEC18-LF-WS218	AEC18-LF-WS219	AEC18-LF-WS219	AEC18-LF-WS220	AEC18-LF-WS220	AEC18-LF-WS221	AEC18-LF-WS221	AEC18-LF-WS222	AEC18-LF-WS222	AEC18-LF-WS223	AEC18-LF-WS223	AEC18-LF-WS224
Sample Top	3.20	0.30	4.10	0.30	2.60	1.70	4.20	0.40	3.70	0.30	2.00	0.40	3.40	1.40	4.40	1.50	3.20	0.50	1.50	1.80
Lookup soil	MADE GROUND	MADE GROUND	MG-LF	MADE GROUND	MADE GROUND	MADE GROUND	MADE GROUND	MADE GROUND	MADE GROUND	MADE GROUND	MADE GROUND	MADE GROUND	MADE GROUND	MADE GROUND	MADE GROUND	MADE GROUND	MG-LF	MADE GROUND	MADE GROUND	MADE GROUND
Sample Ref	7	1	6	1	4	2	6	1	4	1	4	2	6	3	5	3	5	1	3	4
Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
98-06-6	Tert-Butylbenzene	SOLID - INITIAL	0.75	mg/kg	mg/kg															
98-82-8	Isopropylbenzene	SOLID - INITIAL	0.27	mg/kg	mg/kg															
99-09-2	3-Nitroaniline	SOLID - INITIAL	#N/A	mg/kg	mg/kg															
99-65-0	M-Dinitrobenzene	SOLID - INITIAL	#N/A	mg/kg	mg/kg															
99-87-6	4-Isopropyltoluene	SOLID - INITIAL	54.06	mg/kg	mg/kg															
P1374	xylene	SOLID - INITIAL	0.23	mg/kg	mg/kg															
18540-29-9	chromium hexavalent	SOLID - INITIAL	0.02	mg/kg	mg/kg											<0.6				
P1095	Cyanide Free	SOLID - INITIAL	#N/A	mg/kg	mg/kg											<1				
P1239	Complex Cyanide	SOLID - INITIAL	0.26	mg/kg	mg/kg											10.8				
31508-00-6	PCB-118 2,3,4,4,5 - Pentachlorobiphenyl	SOLID - INITIAL	#N/A	mg/kg	mg/kg															
32598-13-3	PCB 77	SOLID - INITIAL	6185.41	mg/kg	mg/kg															
32598-14-4	PCB 105	SOLID - INITIAL	8940.63	mg/kg	mg/kg															
32774-16-6	PCB 169	SOLID - INITIAL	37270.75	mg/kg	mg/kg															
38380-08-4	PCB-156 2,3,3,4,4,5 - Hexachlorobiphenyl	SOLID - INITIAL	3172.26	mg/kg	mg/kg															
39635-31-9	PCB 189	SOLID - INITIAL	270002.64	mg/kg	mg/kg															
52663-72-6	PCB 167	SOLID - INITIAL	45853.03	mg/kg	mg/kg															
57465-28-8	PCB 126	SOLID - INITIAL	8940.63	mg/kg	mg/kg															
65510-44-3	PCB 123	SOLID - INITIAL	8940.63	mg/kg	mg/kg															
69782-90-7	PCB 157	SOLID - INITIAL	45853.03	mg/kg	mg/kg															
70362-50-4	PCB 81	SOLID - INITIAL	8940.63	mg/kg	mg/kg															
74472-37-0	PCB 114	SOLID - INITIAL	8940.63	mg/kg	mg/kg															
100-02-7	4-Nitrophenol	SOLID	0.04	mg/kg	ug/kg											<100				<100
100-41-4	Ethylbenzene	SOLID	0.53	mg/kg	ug/kg	<4										<80				<4
100-42-5	Styrene	SOLID	1.04	mg/kg	ug/kg											<200				<40
10061-01-5	cis 1,3-Dichloropropene	SOLID	#N/A	mg/kg	ug/kg											<200				<80
10061-02-6	trans 1,3-Dichloropropene	SOLID	#N/A	mg/kg	ug/kg											<200				<40
103-65-1	Propylbenzene	SOLID	0.28	mg/kg	ug/kg											<200				<80
104-51-8	n-Butylbenzene	SOLID	1.39	mg/kg	ug/kg											<220				<40
105-67-9	2,4-Dimethylphenol	SOLID	1.18	mg/kg	ug/kg											<500				<80
106-43-4	4-Chlorotoluene	SOLID	#N/A	mg/kg	ug/kg											<200				<40
106-44-5	4-Methylphenol	SOLID	0.53	mg/kg	ug/kg											<500				<40
106-46-7	1,4-Dichlorobenzene	SOLID	48.01	mg/kg	ug/kg											<100				<40
106-93-4	1,2-Dibromoethane	SOLID	#N/A	mg/kg	ug/kg											<200				<40
107-06-2	1,2-Dichloroethane	SOLID	#N/A	mg/kg	ug/kg											<100				<40
108-67-8	1,3,5-Trimethylbenzene	SOLID	0.15	mg/kg	ug/kg											<160				<40
108-86-1	Bromobenzene	SOLID	#N/A	mg/kg	ug/kg											<200				<40
108-88-3	Toluene	SOLID	0.88	mg/kg	ug/kg	<7										<140				<40
108-90-7	Chlorobenzene	SOLID	4.46	mg/kg	ug/kg											<100				<40
108-95-2	Phenol	SOLID	0.04	mg/kg	ug/kg											<500				<40
111-44-4	Bis(2-chloroethyl)ether	SOLID	#N/A	mg/kg	ug/kg											<500				<40
111-91-1	Bis(2-chloroethoxy)methane	SOLID	0.01	mg/kg	ug/kg											<500				<40
117-81-7	Bis(2-ethylhexyl)phthalate	SOLID	18472.17	mg/kg	ug/kg											4130.0				<40
117-84-0	n-Dioctylphthalate	SOLID	146035.35	mg/kg	ug/kg											<500				<40
118-74-1	Hexachlorobenzene	SOLID	0.23	mg/kg	ug/kg											<500				<40
120-82-1	1,2,4-Trichlorobenzene	SOLID	1.81	mg/kg	ug/kg											<400				<40
120-83-2	2,4-Dichlorophenol	SOLID	0.28	mg/kg	ug/kg											<500				<40
121-14-2	2,4-Dinitrotoluene	SOLID	0.00	mg/kg	ug/kg											<500				<40
124-48-1	Dibromochloromethane	SOLID	#N/A	mg/kg	ug/kg											<200				<40
127-18-4	Tetrachloroethene	SOLID	1.46	mg/kg	ug/kg											<100				<40
131-11-3	Dimethyl phthalate	SOLID	#N/A	mg/kg	ug/kg											<500				<40
132-64-9	Dibenzofuran	SOLID	0.49	mg/kg	ug/kg											<500				<40
135-98-8	sec-Butylbenzene	SOLID	1.39	mg/kg	ug/kg											<200				<40
142-28-9	1,3-Dichloropropane	SOLID	#N/A	mg/kg	ug/kg											<140				<40
156-59-2	cis 1,2-Dichloroethene	SOLID	0.31	mg/kg	ug/kg											<120				<40
156-60-5	trans 1,2-Dichloroethene	SOLID	#N/A	mg/kg	ug/kg											<200				<40
198-55-0	Perylene	SOLID	206.28	mg/kg	ug/kg											<200				<40
39638-32-9	Bis(2-chloroisopropyl)ether	SOLID	#N/A	mg/kg	ug/kg											<500				<40
541-73-1	1,3-Dichlorobenzene	SOLID	145.60	mg/kg	ug/kg											<160				<40
56-23-5	Carbon Tetrachloride	SOLID	#N/A	mg/kg	ug/kg											<200				<40
563-58-6	1,1-Dichloropropene	SOLID	0.41	mg/kg	ug/kg											<200				<40
594-20-7	2,2-Dichloropropane	SOLID	#N/A	mg/kg	ug/kg											<200				<40
59-50-7	4-Chloro-3-methylphenol	SOLID	2.93	mg/kg	ug/kg											<500				<40
606-20-2	2,6-Dinitrotoluene	SOLID	1.48	mg/kg	ug/kg											<500				<40
621-64-7	n-Nitroso-n-dipropylamine	SOLID	#N/A	mg/kg	ug/kg											<500				<40
630-20-6	1,1,1,2-Tetrachloroethane	SOLID	#N/A	mg/kg	ug/kg											<200				<40
67-66-3	Chloroform	SOLID	#N/A	mg/kg	ug/kg											<160				<40
67-72-1	Hexachloroethane	SOLID	3.21	mg/kg	ug/kg											<500				<40
71-43-2	Benzene	SOLID	0.00	mg/kg	ug/kg	<9										<180				<9

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Hole Ref	AEC18-LF-WS214	AEC18-LF-WS215A	AEC18-LF-WS215A	AEC18-LF-WS216	AEC18-LF-WS216	AEC18-LF-WS217	AEC18-LF-WS217B	AEC18-LF-WS218	AEC18-LF-WS218	AEC18-LF-WS219	AEC18-LF-WS219	AEC18-LF-WS220	AEC18-LF-WS220	AEC18-LF-WS221	AEC18-LF-WS221	AEC18-LF-WS222	AEC18-LF-WS222	AEC18-LF-WS223	AEC18-LF-WS223	AEC18-LF-WS224
Sample Top	3.20	0.30	4.10	0.30	2.60	1.70	4.20	0.40	3.70	0.30	2.00	0.40	3.40	1.40	4.40	1.50	3.20	0.50	1.50	1.80
Lookup soil	MADE GROUND	MADE GROUND	MG-LF	MADE GROUND	MADE GROUND	MADE GROUND	MADE GROUND	MADE GROUND	MADE GROUND	MADE GROUND	MADE GROUND	MADE GROUND	MADE GROUND	MADE GROUND	MADE GROUND	MADE GROUND	MG-LF	MADE GROUND	MADE GROUND	MADE GROUND
Sample Ref	7	1	6	1	4	2	6	1	4	1	4	2	6	3	5	3	5	1	3	4
Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES

Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	AEC18-LF-WS214	AEC18-LF-WS215A	AEC18-LF-WS215A	AEC18-LF-WS216	AEC18-LF-WS216	AEC18-LF-WS217	AEC18-LF-WS217B	AEC18-LF-WS218	AEC18-LF-WS218	AEC18-LF-WS219	AEC18-LF-WS219	AEC18-LF-WS220	AEC18-LF-WS220	AEC18-LF-WS221	AEC18-LF-WS221	AEC18-LF-WS222	AEC18-LF-WS222	AEC18-LF-WS223	AEC18-LF-WS223	AEC18-LF-WS224	
1610-18-0	Prometon SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																					
16118-49-3	Carbetamide	SOLID	#N/A	mg/kg	mg/kg																					
1689-83-4	loxynil	SOLID	#N/A	mg/kg	mg/kg																					
1689-84-5	Bromoxynil	SOLID	#N/A	mg/kg	mg/kg																					
1702-17-6	Clopyralid	SOLID	#N/A	mg/kg	mg/kg																					
1746-81-2	Monolinuron	SOLID	#N/A	mg/kg	mg/kg																					
18691-97-9	Methabenzthiazuron	SOLID	#N/A	mg/kg	mg/kg																					
1897-45-6	Chlorothalonil	SOLID	#N/A	mg/kg	ug/kg																					
1912-24-9	Atrazine SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																					
1918-00-9	Dicamba	SOLID	#N/A	mg/kg	mg/kg																					
6607	Picloram	SOLID	#N/A	mg/kg	mg/kg																					
1967-16-4	Chlorbufam	SOLID	#N/A	mg/kg	mg/kg																					
1982-47-4	Chloroxuron	SOLID	#N/A	mg/kg	mg/kg																					
19937-59-8	Metoxuron	SOLID	#N/A	mg/kg	mg/kg																					
2132-70-9	p,p-Methoxychlor	SOLID	#N/A	mg/kg	ug/kg																					
2274-67-1	Chlorpyrifos-methyl	SOLID	#N/A	mg/kg	ug/kg																					
2303-17-5	Triallate	SOLID	#N/A	mg/kg	ug/kg																					
2310-17-0	Phosalone	SOLID	#N/A	mg/kg	ug/kg																					
23103-98-2	Pirimicarb	SOLID	#N/A	mg/kg	mg/kg																					
24017-47-8	Triazophos	SOLID	#N/A	mg/kg	ug/kg																					
25057-89-0	Bentazone	SOLID	#N/A	mg/kg	mg/kg																					
2642-71-9	Azinphos-ethyl	SOLID	#N/A	mg/kg	ug/kg																					
2921-88-2	Chlorpyrifos	SOLID	#N/A	mg/kg	ug/kg																					
29232-93-7	Pirimiphos Methyl	SOLID	#N/A	mg/kg	ug/kg																					
297-78-9	Telodrin	SOLID	#N/A	mg/kg	ug/kg																					
298-00-0	Methyl Parathion	SOLID	#N/A	mg/kg	ug/kg																					
298-01-1	Mevinphos	SOLID	#N/A	mg/kg	ug/kg																					
298-04-4	Disulfoton SUBCON OCP Alcontrol	SOLID	#N/A	mg/kg	ug/kg																					
29973-13-5	Ethiofencarb	SOLID	#N/A	mg/kg	mg/kg																					
30667-99-3	o,p-Methoxychlor	SOLID	#N/A	mg/kg	ug/kg																					
309-00-2	Aldrin SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																					
31218-83-4	Propetamphos	SOLID	#N/A	mg/kg	ug/kg																					
314-40-9	Bromacil	SOLID	#N/A	mg/kg	mg/kg																					
319-84-6	alpha-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																					
	beta-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																					
319-85-7		SOLID	#N/A	mg/kg	ug/kg																					
330-54-1	Diuron SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																					
330-55-2	Linuron	SOLID	#N/A	mg/kg	mg/kg																					
33213-65-9	Endosulphan II	SOLID	#N/A	mg/kg	ug/kg																					
333-41-5	Diazinon	SOLID	#N/A	mg/kg	ug/kg																					
34123-59-6	Isoproturon	SOLID	#N/A	mg/kg	mg/kg																					
34205-21-5	Dimefuron	SOLID	#N/A	mg/kg	mg/kg																					
3424-82-6	o,p-DDE	SOLID	#N/A	mg/kg	ug/kg																					
35367-38-5	Diflufenzuron	SOLID	#N/A	mg/kg	mg/kg																					
698836	Benazolin	SOLID	#N/A	mg/kg	mg/kg																					
38260-54-7	Etrimpfos	SOLID	#N/A	mg/kg	ug/kg																					
40483-25-2	Diclofop	SOLID	#N/A	mg/kg	mg/kg																					
40487-42-1	Pendimethalin	SOLID	#N/A	mg/kg	ug/kg																					
43121-43-3	Triadimefon	SOLID	#N/A	mg/kg	ug/kg																					
465-73-6	Isodrin	SOLID	#N/A	mg/kg	ug/kg																					
470-90-6	Chlorfenvinphos	SOLID	#N/A	mg/kg	ug/kg																					
50-29-3	p,p-DDT SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																					
50-31-7	2,3,6-TBA	SOLID	#N/A	mg/kg	mg/kg																					
5103-71-9	cis-Chlordane SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																					
5103-74-2	trans-Chlordane SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg																					
51630-58-1	Fenvalerate SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																					
52315-07-8	Cypermethrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																					
52645-53-1	Permethrin SUBCON RPS MH Pyrethroids	SOLID	#N/A	mg/kg	mg/kg																					
52756-22-6	Flamprop-isopropyl	SOLID	#N/A	mg/kg	mg/kg																					
52918-63-5	Deltamethrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg																					
53-19-0	o,p-TDE (DDD)	SOLID	#N/A	mg/kg	ug/kg																					
55335-06-3	Triclopyr	SOLID	#N/A	mg/kg	mg/kg																					
55-38-9	Fenthion	SOLID	#N/A	mg/kg	ug/kg																					
563-12-2	Ethion	SOLID	#N/A	mg/kg	ug/kg																					
56-38-2	Parathion (Ethyl Parathion)	SOLID	#N/A	mg/kg	ug/kg																					
58667-63-3	Fiamprop	SOLID	#N/A	mg/kg	mg/kg																					

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Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	AEC18-LF-WS214	AEC18-LF-WS215A	AEC18-LF-WS215A	AEC18-LF-WS216	AEC18-LF-WS216	AEC18-LF-WS217	AEC18-LF-WS217B	AEC18-LF-WS218	AEC18-LF-WS218	AEC18-LF-WS219	AEC18-LF-WS219	AEC18-LF-WS220	AEC18-LF-WS220	AEC18-LF-WS221	AEC18-LF-WS221	AEC18-LF-WS222	AEC18-LF-WS222	AEC18-LF-WS223	AEC18-LF-WS223	AEC18-LF-WS224
						ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
31508-00-6	PCB-118 2,3',4,4',5 - Pentachlorobiphenyl	SOLID - INITIAL	694.02	mg/kg	ng/g																				
32598-13-3	PCB 77	SOLID - INITIAL	6185.41	mg/kg	ng/g																				
32598-14-4	PCB 105	SOLID - INITIAL	8940.63	mg/kg	ng/g																				
3268-87-9	Octachlorodibenzo-p-dioxin	SOLID - INITIAL	91923.81	mg/kg	ng/g																				
32774-16-6	PCB 169	SOLID - INITIAL	37270.75	mg/kg	ng/g																				
3380-34-5	Triclosan	SOLID - INITIAL	0.33	mg/kg	mg/kg																				
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-P-Dioxin	SOLID - INITIAL	91923.81	mg/kg	ng/g																				
38380-08-4	PCB-156 2,3,3,4,4,5 - Hexachlorobiphenyl	SOLID - INITIAL	3172.26	mg/kg	ng/g																				
39001-02-0	Octachlorodibenzofuran	SOLID - INITIAL	46180.43	mg/kg	ng/g																				
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-P-Dioxin	SOLID - INITIAL	36595.53	mg/kg	ng/g																				
39635-31-9	PCB 189	SOLID - INITIAL	270002.64	mg/kg	ng/g																				
40321-76-4	1,2,3,7,8-Pentachlorodibenzo-P-Dioxin	SOLID - INITIAL	#N/A	mg/kg	ng/g																				
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	SOLID - INITIAL	393.06	mg/kg	ng/g																				
52645-53-1	Permethrin	SOLID - INITIAL	#N/A	mg/kg	ug/kg																				
52663-72-6	PCB 167	SOLID - INITIAL	45853.03	mg/kg	ng/g																				
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	SOLID - INITIAL	9648.46	mg/kg	ng/g																				
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	SOLID - INITIAL	964.85	mg/kg	ng/g																				
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	SOLID - INITIAL	715.25	mg/kg	ng/g																				
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	SOLID - INITIAL	715.25	mg/kg	ng/g																				
57465-28-8	PCB 126	SOLID - INITIAL	8940.63	mg/kg	ng/g																				
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-P-Dioxin	SOLID - INITIAL	91923.81	mg/kg	ng/g																				
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofura	SOLID - INITIAL	715.25	mg/kg	ng/g																				
62476-59-9	Acifluorfen	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
65510-44-3	PCB 123	SOLID - INITIAL	8940.63	mg/kg	ng/g																				
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	SOLID - INITIAL	715.25	mg/kg	ng/g																				
69782-90-7	PCB 157	SOLID - INITIAL	45853.03	mg/kg	ng/g																				
70362-50-4	PCB 81	SOLID - INITIAL	8940.63	mg/kg	ng/g																				
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	SOLID - INITIAL	715.25	mg/kg	ng/g																				
7085-19-0	mecoprop	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
72-43-5	Methoxychlor	SOLID - INITIAL	#N/A	mg/kg	ug/kg																				
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	SOLID - INITIAL	#N/A	mg/kg	ng/g																				
74472-37-0	PCB 114	SOLID - INITIAL	8940.63	mg/kg	ng/g																				
88-85-7	Dinoseb	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
892-20-6	Triphenyltin	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
P1330	BTEX	SOLID - INITIAL	0.00	mg/kg	ug/kg							<40		<400			<40	3650.0	<40			<40			
P1354	TPH Aromatic >C6-C7	SOLID - INITIAL	0.05	mg/kg	ug/kg							<10		<10			<10	65.5	<10			<10			
P1355	TPH Aromatics > C7-C8	SOLID - INITIAL	#N/A	mg/kg	ug/kg							<10		<10			<10	530.0	<10			<10			
P1356	Aromatics >C8-10	SOLID - INITIAL	#N/A	mg/kg	ug/kg							21.1		154.0			13.8	6350.0	28.2			264.0			
P1357	Aromatics >C10-12	SOLID - INITIAL	#N/A	mg/kg	ug/kg							32.2		134.0			11.3	5710.0	51.2			284.0			
P1358	Aromatics >C12-16	SOLID - INITIAL	#N/A	mg/kg	ug/kg							<100		<100			<100	69600.0	1900.0			3180.0			
P1359	Aromatics >C16-21	SOLID - INITIAL	#N/A	mg/kg	ug/kg							<100		8500.0			2740.0	180000.0	7060.0			92800.0			
P1360	Aromatics >C21-35	SOLID - INITIAL	#N/A	mg/kg	ug/kg							<100		96300.0			37800.0	623000.0	17900.0			538000.0			
P1362	Aromatics >C35-44	SOLID - INITIAL	#N/A	mg/kg	ug/kg							<100		13000.0			14800.0	92200.0	4890.0			95000.0			
P1407	Aliphatics >C5-6	SOLID - INITIAL	#N/A	mg/kg	ug/kg							<10		15.8			<10	129.0	<10			15.0			
P1408	Aliphatics >C6-8	SOLID - INITIAL	#N/A	mg/kg	ug/kg							28.9		85.0			<10	1820.0	20.5			62.5			
P1409	Aliphatics >C8-10	SOLID - INITIAL	#N/A	mg/kg	ug/kg							31.1		230.0			20.0	9520.0	42.2			396.0			
P1410	Aliphatics >C10-12	SOLID - INITIAL	#N/A	mg/kg	ug/kg							48.8		200.0			16.3	8570.0	76.8			425.0			
P1411	Aliphatics >C12-16	SOLID - INITIAL	#N/A	mg/kg	ug/kg							<100		1380.0			<100	74400.0	4190.0			7400.0			
P1412	Aliphatics >C16-21	SOLID - INITIAL	#N/A	mg/kg	ug/kg							1430.0		9330.0			4730.0	443000.0	15400.0			194000.0			
P1413	Aliphatics >C21-35	SOLID - INITIAL	#N/A	mg/kg	ug/kg							4330.0		117000.0			60100.0	1110000.0	27400.0			1100000.0			
P1415	Aliphatics >C35-44	SOLID - INITIAL	#N/A	mg/kg	ug/kg							<100		46600.0			19400.0	129000.0	4950.0			255000.0			
15541-45-4	Bromate	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
16065-83-1	Trivalent Chromium	SOLID - INITIAL	#N/A	mg/kg	mg/kg																				
16887-00-6	Chloride	SOLID - INITIAL	268.18	mg/kg	mg/kg																				
16984-48-8	Fluoride	SOLID - INITIAL	0.41	mg/kg	mg/kg																				
18496-25-8	Sulphide	SOLID - INITIAL	#VALUE!	mg/kg	mg/kg																				
24959-67-9	Bromide	SOLID - INITIAL	#VALUE!	mg/kg	mg/kg																				
7439-89-6	Iron	SOLID - INITIAL	44.05	mg/kg	mg/kg																				
7439-95-4	Magnesium	SOLID - INITIAL	0.00	mg/kg	mg/kg																				
7439-98-7	Molybdenum	SOLID - INITIAL	0.10	mg/kg	mg/kg																				
2023695	Potassium	SOLID - INITIAL	0.00	mg/kg	mg/kg																				
7440-23-5	Sodium	SOLID - INITIAL	263.64	mg/kg	mg/kg																				
7440-70-2	Calcium	SOLID - INITIAL	0.00	mg/kg	mg/kg																				
P1238	Ammoniacal Nitrogen as N	SOLID - INITIAL	0.11	mg/kg	mg/kg																				
P1286	Manganese	SOLID - INITIAL	2.51	mg/kg	mg/kg																				
100-01-6	4-Nitroaniline	SOLID - INITIAL	0.00	mg/kg	ug/kg														<100			<100			
101-55-3	4-Bromophenyl Phenyl Ether	SOLID - INITIAL	#N/A	mg/kg	ug/kg														<100			<100			

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					Hole Ref	AEC18-LF-WS214	AEC18-LF-WS215A	AEC18-LF-WS215A	AEC18-LF-WS216	AEC18-LF-WS216	AEC18-LF-WS217	AEC18-LF-WS217B	AEC18-LF-WS218	AEC18-LF-WS218	AEC18-LF-WS219	AEC18-LF-WS219	AEC18-LF-WS220	AEC18-LF-WS220	AEC18-LF-WS221	AEC18-LF-WS221	AEC18-LF-WS222	AEC18-LF-WS222	AEC18-LF-WS223	AEC18-LF-WS223	AEC18-LF-WS224	
					Sample Top	3.20	0.30	4.10	0.30	2.60	1.70	4.20	0.40	3.70	0.30	2.00	0.40	3.40	1.40	4.40	1.50	3.20	0.50	1.50	1.80	
					Lookup soil	MADE GROUND	MADE GROUND	MG-LF	MADE GROUND	MADE GROUND	MADE GROUND	MADE GROUND	MADE GROUND	MADE GROUND	MADE GROUND	MADE GROUND	MADE GROUND	MADE GROUND	MADE GROUND	MADE GROUND	MADE GROUND	MG-LF	MADE GROUND	MADE GROUND	MADE GROUND	
					Sample Ref	7	1	6	1	4	2	6	1	4	1	4	2	6	3	5	3	5	1	3	4	
Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES		
103-33-3	Azobenzene	SOLID - INITIAL	0.38	mg/kg	ug/kg				<500												<100			<100		
106-47-8	4-Chloroaniline	SOLID - INITIAL	0.01	mg/kg	ug/kg				<500													<100			<100	
700-57-23	4-Chlorophenylphenylether	SOLID - INITIAL	#N/A	mg/kg	ug/kg				<500													<100			<100	
88-74-4	2-Nitroaniline	SOLID - INITIAL	0.01	mg/kg	ug/kg				<500													<100			<100	
99-09-2	3-Nitroaniline	SOLID - INITIAL	#N/A	mg/kg	ug/kg				<500													<100			<100	
994-05-8	Tertiary Amyl Methyl Ether	SOLID - INITIAL	#N/A	mg/kg	ug/kg				<200													<200			<10	
1336-36-6	PCB Total (WAC only)	SOLID	#N/A	mg/kg	mg/kg																					
P1330	BTEX (total) WAC	SOLID	#N/A	mg/kg	mg/kg																					

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Hole Ref	AEC18-LF-WS224	AEC18-LF-WS224	AEC18-LF-WS225	AEC18-LF-WS225	AEC18-LF-WS225
Sample Top	3.60	4.50	0.50	2.30	4.55
Lookup soil	MADE GROUND	MADE GROUND	MADE GROUND	MADE GROUND	MG-LF
Sample Ref	6	7	2	5	7
Sample Type	ES	ES	ES	ES	ES

Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	AEC18-LF-WS224	AEC18-LF-WS224	AEC18-LF-WS225	AEC18-LF-WS225	AEC18-LF-WS225
100-41-4	Ethylbenzene	SOLID - INITIAL	0.53	mg/kg	mg/kg					
108-88-3	Toluene	SOLID - INITIAL	0.88	mg/kg	mg/kg					
120-12-7	Anthracene	SOLID - INITIAL	0.16	mg/kg	mg/kg					
129-00-0	Pyrene	SOLID - INITIAL	1.88	mg/kg	mg/kg					
1330-20-7	Xylene	SOLID - INITIAL	0.23	mg/kg	mg/kg					
191-24-2	Benzo(g,h,i)perylene	SOLID - INITIAL	2.42	mg/kg	mg/kg					
193-39-5	Indeno(1,2,3-cd)pyrene	SOLID - INITIAL	0.51	mg/kg	mg/kg					
205-99-2	Benzo(b)fluoranthene	SOLID - INITIAL	0.61	mg/kg	mg/kg					
206-44-0	Fluoranthene	SOLID - INITIAL	0.01	mg/kg	mg/kg					
207-08-9	Benzo(k)fluoranthene	SOLID - INITIAL	0.86	mg/kg	mg/kg					
208-96-8	Acenaphthylene	SOLID - INITIAL	1.01	mg/kg	mg/kg					
218-01-9	Chrysene	SOLID - INITIAL	6.38	mg/kg	mg/kg					
50-32-8	Benzo(a)pyrene	SOLID - INITIAL	0.07	mg/kg	mg/kg					
53-70-3	Dibenzo(a,h)anthracene	SOLID - INITIAL	10.80	mg/kg	mg/kg					
56-55-3	Benzo(a)anthracene	SOLID - INITIAL	4.50	mg/kg	mg/kg					
57-12-5	Cyanide	SOLID - INITIAL	0.26	mg/kg	mg/kg	<0.5	<1	<1	<1	13.5
71-43-2	Benzene	SOLID - INITIAL	0.0043	mg/kg	mg/kg					
7439-92-1	Lead	SOLID - INITIAL	10.00	mg/kg	mg/kg	0.0	29.3	125.0	57.3	447.0
7439-97-6	Mercury	SOLID - INITIAL	0.50	mg/kg	mg/kg	<0.0001	<0.14	<0.14	<0.14	1.2
7440-02-0	Nickel	SOLID - INITIAL	10.01	mg/kg	mg/kg	1.1	5.4	26.9	30.6	60.8
7440-36-0	Antimony	SOLID - INITIAL	1.26	mg/kg	mg/kg	1.6	<0.6	4.3	<0.6	12.7
7440-38-2	Arsenic	SOLID - INITIAL	5.00	mg/kg	mg/kg	0.1	5.5	13.1	20.0	48.7
7440-41-7	Beryllium	SOLID - INITIAL	5.04	mg/kg	mg/kg	<0.001	9.5	1.3	1.5	6.6
7440-42-8	Boron	SOLID - INITIAL	8.69	mg/kg	mg/kg	4.6	3.1	1.7	2.0	39.5
7440-43-9	Cadmium	SOLID - INITIAL	0.50	mg/kg	mg/kg	0.0	0.1	0.3	0.2	0.7
7440-47-3	Chromium	SOLID - INITIAL	315.49	mg/kg	mg/kg	0.1	14.3	25.8	32.8	15.1
7440-50-8	Copper	SOLID - INITIAL	1002.92	mg/kg	mg/kg	0.0	15.8	31.3	23.1	305.0
7440-62-2	Vanadium	SOLID - INITIAL	1.01	mg/kg	mg/kg	0.0	30.1	51.1	69.0	39.7
7440-66-6	Zinc	SOLID - INITIAL	2507.30	mg/kg	mg/kg	0.2	42.0	119.0	91.6	677.0
7782-49-2	Selenium	SOLID - INITIAL	0.50	mg/kg	mg/kg	<0.01	2.0	<1	1.1	1.5
83-32-9	Acenaphthene	SOLID - INITIAL	965.39	mg/kg	mg/kg					
85-01-8	Phenanthrene	SOLID - INITIAL	3.35	mg/kg	mg/kg					
86-73-7	Fluorene	SOLID - INITIAL	1.76	mg/kg	mg/kg					
91-20-3	Napthalene	SOLID - INITIAL	0.08	mg/kg	mg/kg					
P1186	Phenol	SOLID - INITIAL	0.04	mg/kg	mg/kg	1.1	4.6	<0.035	<0.035	<0.035
P1310	Pah,Total	SOLID - INITIAL	#N/A	mg/kg	mg/kg					
P1334	pH	SOLID - INITIAL	#N/A	mg/kg	pH Units	7.6	8.8	8.6	8.2	7.8
P1355	TPH Aromatic >C7-C8	SOLID - INITIAL	10.42	mg/kg	mg/kg					
P1356	TPH Aromatic >C8-C10	SOLID - INITIAL	219.16	mg/kg	mg/kg					
P1357	TPH Aromatic >C10-C12	SOLID - INITIAL	16.54	mg/kg	mg/kg					
P1358	TPH Aromatic >C12-C16	SOLID - INITIAL	32.96	mg/kg	mg/kg					
P1359	TPH Aromatic >C16-C21	SOLID - INITIAL	82.76	mg/kg	mg/kg					
P1360	TPH Aromatic >C21-C35	SOLID - INITIAL	657.18	mg/kg	mg/kg					
P1407	TPH Aliphatic >C5-6	SOLID - INITIAL	654.68	mg/kg	mg/kg					
P1408	TPH Aliphatic >C6-8	SOLID - INITIAL	2946.18	mg/kg	mg/kg					
P1409	TPH Aliphatic >C8-10	SOLID - INITIAL	558.25	mg/kg	mg/kg					
P1410	TPH Aliphatic >C10-12	SOLID - INITIAL	5510.38	mg/kg	mg/kg					
P1411	TPH Aliphatic >C12-16	SOLID - INITIAL	87214.59	mg/kg	mg/kg					
P1412	TPH Aliphatic >C16-21	SOLID - INITIAL	6927070.30	mg/kg	mg/kg					
P1413	TPH Aliphatic >C21-35	SOLID - INITIAL	6927070.30	mg/kg	mg/kg					
P1441	TPH Aromatic >C6-C7	SOLID - INITIAL	0.05	mg/kg	mg/kg					
100-01-6	4-Nitroaniline	SOLID - INITIAL	0.00	mg/kg	mg/kg					
100-02-7	4-Nitrophenol	SOLID - INITIAL	0.04	mg/kg	mg/kg					
100-25-4	P-Dinitrobenzene	SOLID - INITIAL	#N/A	mg/kg	mg/kg					
100-42-5	Styrene	SOLID - INITIAL	1.04	mg/kg	mg/kg					
100-51-6	Benzyl Alcohol	SOLID - INITIAL	#N/A	mg/kg	mg/kg					
10061-01-5	cis-1,3-Dichloropropene	SOLID - INITIAL	#N/A	mg/kg	mg/kg					
10061-02-6	trans-1,3-Dichloropropene	SOLID - INITIAL	#N/A	mg/kg	mg/kg					
101-55-3	4-Bromophenyl Phenyl Ether	SOLID - INITIAL	#N/A	mg/kg	mg/kg					
103-33-3	Azobenzene	SOLID - INITIAL	0.38	mg/kg	mg/kg					
103-65-1	n-propylbenzene	SOLID - INITIAL	#N/A	mg/kg	mg/kg					
104-51-8	n-Butylbenzene	SOLID - INITIAL	1.39	mg/kg	mg/kg					
105-67-9	2,4-Dimethylphenol	SOLID - INITIAL	1.18	mg/kg	mg/kg					
106-43-4	4-Chlorotoluene	SOLID - INITIAL	#N/A	mg/kg	mg/kg					
106-44-5	3/4 Methylphenol	SOLID - INITIAL	0.53	mg/kg	mg/kg					
106-46-7	1,4-Dichlorobenzene	SOLID - INITIAL	48.01	mg/kg	mg/kg					
106-93-4	1,2-Dibromoethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg					
107-06-2	1,2-Dichloroethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg					

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Hole Ref	AEC18-LF-WS224	AEC18-LF-WS224	AEC18-LF-WS225	AEC18-LF-WS225	AEC18-LF-WS225
Sample Top	3.60	4.50	0.50	2.30	4.55
Lookup soil	MADE GROUND	MADE GROUND	MADE GROUND	MADE GROUND	MG-LF
Sample Ref	6	7	2	5	7
Sample Type	ES	ES	ES	ES	ES

Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	AEC18-LF-WS224	AEC18-LF-WS224	AEC18-LF-WS225	AEC18-LF-WS225	AEC18-LF-WS225
108-67-8	1,3,5-Trimethylbenzene	SOLID - INITIAL	0.15	mg/kg	mg/kg					
108-86-1	Bromobenzene	SOLID - INITIAL	#N/A	mg/kg	mg/kg					
108-90-7	Chlorobenzene	SOLID - INITIAL	4.46	mg/kg	mg/kg					
108-95-2	Phenol	SOLID - INITIAL	0.04	mg/kg	mg/kg	0.0	<0.1	<0.01	<0.01	0.0
111-91-1	Bis(2-chloroethoxy)methane	SOLID - INITIAL	0.01	mg/kg	mg/kg					
117-81-7	Bis(2-ethylhexyl)phthalate	SOLID - INITIAL	18472.17	mg/kg	mg/kg					
117-84-0	Di-N-Octyl Phthalate	SOLID - INITIAL	#N/A	mg/kg	mg/kg					
118-74-1	Hexachlorobenzene (HCB)	SOLID - INITIAL	#N/A	mg/kg	mg/kg					
120-82-1	1,2,4-Trichlorobenzene	SOLID - INITIAL	1.81	mg/kg	mg/kg					
120-83-2	2,4-Dichlorophenol	SOLID - INITIAL	0.28	mg/kg	mg/kg					
121-14-2	2,4-Dinitrotoluene	SOLID - INITIAL	0.00	mg/kg	mg/kg					
122-39-4	Diphenylamine	SOLID - INITIAL	#N/A	mg/kg	mg/kg					
124-48-1	Dibromochloromethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg					
127-18-4	Tetrachloroethene	SOLID - INITIAL	1.46	mg/kg	mg/kg					
131-11-3	Dimethylphthalate	SOLID - INITIAL	#N/A	mg/kg	mg/kg					
132-64-9	Dibenzofuran	SOLID - INITIAL	0.49	mg/kg	mg/kg					
135-98-8	Sec-Butylbenzene	SOLID - INITIAL	1.39	mg/kg	mg/kg					
142-28-9	1,3-Dichloropropane	SOLID - INITIAL	#N/A	mg/kg	mg/kg					
156-59-2	cis-1,2-Dichloroethene	SOLID - INITIAL	#N/A	mg/kg	mg/kg					
156-60-5	trans-1,2-Dichloroethene	SOLID - INITIAL	#N/A	mg/kg	mg/kg					
1634-04-4	Methyl tert-butyl ether (MTBE)	SOLID - INITIAL	#N/A	mg/kg	mg/kg					
39638-32-9	Bis(2-chloroisopropyl)ether	SOLID - INITIAL	#N/A	mg/kg	mg/kg					
528-29-0	O-Dinitrobenzene	SOLID - INITIAL	#N/A	mg/kg	mg/kg					
534-52-1	2-Methyl-4,6-Dinitrophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg	<0.01				
541-73-1	1,3-Dichlorobenzene	SOLID - INITIAL	145.60	mg/kg	mg/kg					
56-23-5	Tetrachloromethane (Carbon Tetra Chloride)	SOLID - INITIAL	#N/A	mg/kg	mg/kg					
563-58-6	1,1-Dichloropropene	SOLID - INITIAL	0.41	mg/kg	mg/kg					
58-90-2	2,3,4,6-Tetrachlorophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg					
594-20-7	2,2-Dichloropropane	SOLID - INITIAL	#N/A	mg/kg	mg/kg					
59-50-7	4-Chloro-3-Methylphenol	SOLID - INITIAL	2.93	mg/kg	mg/kg					
606-20-2	2,6-Dinitrotoluene	SOLID - INITIAL	1.48	mg/kg	mg/kg					
62-53-3	Aniline	SOLID - INITIAL	#N/A	mg/kg	mg/kg					
630-20-6	1,1,1,2-Tetrachloroethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg					
67-66-3	Chloroform	SOLID - INITIAL	#N/A	mg/kg	mg/kg					
700-57-23	4-Chlorophenyl Phenyl Ether	SOLID - INITIAL	#N/A	mg/kg	mg/kg					
71-55-6	1,1,1-Trichloroethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg					
74-95-3	Dibromomethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg					
74-97-5	Bromochloromethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg					
75-01-4	Chloroethene	SOLID - INITIAL	#N/A	mg/kg	mg/kg					
75-25-2	Tribromomethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg					
75-27-4	Bromodichloromethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg					
75-34-3	1,1-Dichloroethane	SOLID - INITIAL	0.01	mg/kg	mg/kg					
75-35-4	1,1-Dichloroethene	SOLID - INITIAL	#N/A	mg/kg	mg/kg					
77-47-4	Hexachlorocyclopentadiene	SOLID - INITIAL	#N/A	mg/kg	mg/kg					
78-87-5	1,2-Dichloropropane	SOLID - INITIAL	#N/A	mg/kg	mg/kg					
79-00-5	1,1,2-Trichloroethane	SOLID - INITIAL	#N/A	mg/kg	mg/kg					
79-01-6	Trichloroethene	SOLID - INITIAL	0.09	mg/kg	mg/kg					
84-66-2	Diethylphthalate	SOLID - INITIAL	#N/A	mg/kg	mg/kg					
84-74-2	Di-N-Butyl Phthalate	SOLID - INITIAL	0.52	mg/kg	mg/kg					
85-68-7	Butylbenzylphthalate	SOLID - INITIAL	23.36	mg/kg	mg/kg					
86-74-8	Carbazole	SOLID - INITIAL	0.01	mg/kg	mg/kg					
87-61-6	1,2,3 Trichlorobenzene	SOLID - INITIAL	0.26	mg/kg	mg/kg					
87-68-3	Hexachlorobutadiene (HCBd)	SOLID - INITIAL	#N/A	mg/kg	mg/kg					
87-86-5	Pentachlorophenol (PCP)	SOLID - INITIAL	#N/A	mg/kg	mg/kg					
88-06-2	2,4,6-Trichlorophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg					
88-74-4	2-Nitroaniline	SOLID - INITIAL	0.01	mg/kg	mg/kg					
91-57-6	2-Methylnaphthalene	SOLID - INITIAL	0.84	mg/kg	mg/kg					
91-58-7	2-Chloronaphthalene	SOLID - INITIAL	0.92	mg/kg	mg/kg					
935-95-5	2,3,5,6-Tetrachlorophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg					
95-47-6	Xylene	SOLID - INITIAL	0.23	mg/kg	mg/kg					
95-48-7	2-Methylphenol	SOLID - INITIAL	0.54	mg/kg	mg/kg					
95-49-8	2-Chlorotoluene	SOLID - INITIAL	#N/A	mg/kg	mg/kg					
95-50-1	1,2-Dichlorobenzene	SOLID - INITIAL	40.42	mg/kg	mg/kg					
95-57-8	2-Chlorophenol	SOLID - INITIAL	#N/A	mg/kg	mg/kg					
95-63-6	1,2,4-Trimethylbenzene	SOLID - INITIAL	0.25	mg/kg	mg/kg					
95-95-4	2,4,5-Trichlorophenol	SOLID - INITIAL	60.93	mg/kg	mg/kg	<0.01				
96-12-8	1,2-Dibromo-3-Chloropropane	SOLID - INITIAL	#N/A	mg/kg	mg/kg					
96-18-4	1,2,3-Trichloropropane	SOLID - INITIAL	0.44	mg/kg	mg/kg					

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Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	Hole Ref				
						AEC18-LF-WS224	AEC18-LF-WS224	AEC18-LF-WS225	AEC18-LF-WS225	AEC18-LF-WS225
						3.60	4.50	0.50	2.30	4.55
						MADE GROUND	MADE GROUND	MADE GROUND	MADE GROUND	MG-LF
						6	7	2	5	7
						ES	ES	ES	ES	ES
98-06-6	Tert-Butylbenzene	SOLID - INITIAL	0.75	mg/kg	mg/kg					
98-82-8	Isopropylbenzene	SOLID - INITIAL	0.27	mg/kg	mg/kg					
99-09-2	3-Nitroaniline	SOLID - INITIAL	#N/A	mg/kg	mg/kg					
99-65-0	M-Dinitrobenzene	SOLID - INITIAL	#N/A	mg/kg	mg/kg					
99-87-6	4-Isopropyltoluene	SOLID - INITIAL	54.06	mg/kg	mg/kg					
P1374	xylene	SOLID - INITIAL	0.23	mg/kg	mg/kg					
18540-29-9	chromium hexavalent	SOLID - INITIAL	0.02	mg/kg	mg/kg	<0.3				
P1095	Cyanide Free	SOLID - INITIAL	#N/A	mg/kg	mg/kg	<0.5				
P1239	Complex Cyanide	SOLID - INITIAL	0.26	mg/kg	mg/kg	<0.5				
31508-00-6	PCB-118 2,3,4,4,5 - Pentachlorobiphenyl	SOLID - INITIAL	#N/A	mg/kg	mg/kg					
32598-13-3	PCB 77	SOLID - INITIAL	6185.41	mg/kg	mg/kg					
32598-14-4	PCB 105	SOLID - INITIAL	8940.63	mg/kg	mg/kg					
32774-16-6	PCB 169	SOLID - INITIAL	37270.75	mg/kg	mg/kg					
38380-08-4	PCB-156 2,3,3,4,4,5 - Hexachlorobiphenyl	SOLID - INITIAL	3172.26	mg/kg	mg/kg					
39635-31-9	PCB 189	SOLID - INITIAL	270002.64	mg/kg	mg/kg					
52663-72-6	PCB 167	SOLID - INITIAL	45853.03	mg/kg	mg/kg					
57465-28-8	PCB 126	SOLID - INITIAL	8940.63	mg/kg	mg/kg					
65510-44-3	PCB 123	SOLID - INITIAL	8940.63	mg/kg	mg/kg					
69782-90-7	PCB 157	SOLID - INITIAL	45853.03	mg/kg	mg/kg					
70362-50-4	PCB 81	SOLID - INITIAL	8940.63	mg/kg	mg/kg					
74472-37-0	PCB 114	SOLID - INITIAL	8940.63	mg/kg	mg/kg					
100-02-7	4-Nitrophenol	SOLID	0.04	mg/kg	ug/kg	<200	<2000	<100		
100-41-4	Ethylbenzene	SOLID	0.53	mg/kg	ug/kg	88000.0	1080.0	<4	<4	<800
100-42-5	Styrene	SOLID	1.04	mg/kg	ug/kg	<200	<200	<10		
10061-01-5	cis 1,3-Dichloropropene	SOLID	#N/A	mg/kg	ug/kg	<200	<200	<10		
10061-02-6	trans 1,3-Dichloropropene	SOLID	#N/A	mg/kg	ug/kg	<200	<200	<10		
103-65-1	Propylbenzene	SOLID	0.28	mg/kg	ug/kg	29700.0	409.0	<10		
104-51-8	n-Butylbenzene	SOLID	1.39	mg/kg	ug/kg	11300.0	359.0	<11		
105-67-9	2,4-Dimethylphenol	SOLID	1.18	mg/kg	ug/kg	<200	3680.0	<100		
106-43-4	4-Chlorotoluene	SOLID	#N/A	mg/kg	ug/kg	<200	<200	<10		
106-44-5	4-Methylphenol	SOLID	0.53	mg/kg	ug/kg	<200	<2000	<100		
106-46-7	1,4-Dichlorobenzene	SOLID	48.01	mg/kg	ug/kg	988.0	<100	<100		
106-93-4	1,2-Dibromoethane	SOLID	#N/A	mg/kg	ug/kg	<200	<200	<10		
107-06-2	1,2-Dichloroethane	SOLID	#N/A	mg/kg	ug/kg	<100	<100	<5		
108-67-8	1,3,5-Trimethylbenzene	SOLID	0.15	mg/kg	ug/kg	184000.0	4300.0	<8		
108-86-1	Bromobenzene	SOLID	#N/A	mg/kg	ug/kg	<200	<200	<10		
108-88-3	Toluene	SOLID	0.88	mg/kg	ug/kg	62500.0	315.0	<7	<7	<1400
108-90-7	Chlorobenzene	SOLID	4.46	mg/kg	ug/kg	<100	<100	<5		
108-95-2	Phenol	SOLID	0.04	mg/kg	ug/kg	<200	<2000	<100		
111-44-4	Bis(2-chloroethyl)ether	SOLID	#N/A	mg/kg	ug/kg	<200	<2000	<100		
111-91-1	Bis(2-chloroethoxy)methane	SOLID	0.01	mg/kg	ug/kg	<200	<2000	<100		
117-81-7	Bis(2-ethylhexyl)phthalate	SOLID	18472.17	mg/kg	ug/kg	15600.0	2530.0	763.0		
117-84-0	n-Dioctylphthalate	SOLID	146035.35	mg/kg	ug/kg	1120.0	<2000	<100		
118-74-1	Hexachlorobenzene	SOLID	0.23	mg/kg	ug/kg	<1000	<2000	<100		
120-82-1	1,2,4-Trichlorobenzene	SOLID	1.81	mg/kg	ug/kg	<200	<2000	<100		
120-83-2	2,4-Dichlorophenol	SOLID	0.28	mg/kg	ug/kg	<200	<2000	<100		
121-14-2	2,4-Dinitrotoluene	SOLID	0.00	mg/kg	ug/kg	<200	<2000	<100		
124-48-1	Dibromochloromethane	SOLID	#N/A	mg/kg	ug/kg	<200	<200	<10		
127-18-4	Tetrachloroethene	SOLID	1.46	mg/kg	ug/kg	197.0	<100	<5		
131-11-3	Dimethyl phthalate	SOLID	#N/A	mg/kg	ug/kg	<200	<2000	<100		
132-64-9	Dibenzofuran	SOLID	0.49	mg/kg	ug/kg	<200	68400.0	<100		
135-98-8	sec-Butylbenzene	SOLID	1.39	mg/kg	ug/kg	8240.0	<200	<10		
142-28-9	1,3-Dichloropropane	SOLID	#N/A	mg/kg	ug/kg	<140	<140	<7		
156-59-2	cis 1,2-Dichloroethene	SOLID	0.31	mg/kg	ug/kg	4040.0	<120	<6		
156-60-5	trans 1,2-Dichloroethene	SOLID	#N/A	mg/kg	ug/kg	<200	<200	<10		
198-55-0	Perylene	SOLID	206.28	mg/kg	ug/kg					
39638-32-9	Bis(2-chloroisopropyl)ether	SOLID	#N/A	mg/kg	ug/kg	<200	<2000	<100		
541-73-1	1,3-Dichlorobenzene	SOLID	145.60	mg/kg	ug/kg	<160	<160	<100		
56-23-5	Carbon Tetrachloride	SOLID	#N/A	mg/kg	ug/kg	<200	<200	<10		
563-58-6	1,1-Dichloropropene	SOLID	0.41	mg/kg	ug/kg	<200	<200	<10		
594-20-7	2,2-Dichloropropane	SOLID	#N/A	mg/kg	ug/kg	<200	<200	<10		
59-50-7	4-Chloro-3-methylphenol	SOLID	2.93	mg/kg	ug/kg	988.0	<2000	<100		
606-20-2	2,6-Dinitrotoluene	SOLID	1.48	mg/kg	ug/kg	<200	<2000	<100		
621-64-7	n-Nitroso-n-dipropylamine	SOLID	#N/A	mg/kg	ug/kg	<200	<2000	<100		
630-20-6	1,1,1,2-Tetrachloroethane	SOLID	#N/A	mg/kg	ug/kg	<200	<200	<10		
67-66-3	Chloroform	SOLID	#N/A	mg/kg	ug/kg	<160	<160	<8		
67-72-1	Hexachloroethane	SOLID	3.21	mg/kg	ug/kg	<200	<2000	<100		
71-43-2	Benzene	SOLID	0.00	mg/kg	ug/kg	276.0	<180	<9	<9	<1800

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G2 RTM Level 1 - Soils

Hole Ref	AEC18-LF-WS224	AEC18-LF-WS224	AEC18-LF-WS225	AEC18-LF-WS225	AEC18-LF-WS225
Sample Top	3.60	4.50	0.50	2.30	4.55
Lookup soil	MADE GROUND	MADE GROUND	MADE GROUND	MADE GROUND	MG-LF
Sample Ref	6	7	2	5	7
Sample Type	ES	ES	ES	ES	ES

Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	AEC18-LF-WS224	AEC18-LF-WS224	AEC18-LF-WS225	AEC18-LF-WS225	AEC18-LF-WS225
71-55-6	1,1,1-Trichloroethane	SOLID	#N/A	mg/kg	ug/kg	<140	<140	<7		
7440-39-3	Barium	SOLID	78.73	mg/kg	mg/kg	1.2				
74-83-9	Bromomethane	SOLID	#N/A	mg/kg	ug/kg	<200	<200	<10		
74-87-3	Chloromethane	SOLID	0.02	mg/kg	ug/kg	<140	<140	<7		
74-95-3	Dibromomethane	SOLID	#N/A	mg/kg	ug/kg	<180	<180	<9		
74-97-5	Bromochloromethane	SOLID	#N/A	mg/kg	ug/kg	<200	<200	<10		
75-00-3	Chloroethane	SOLID	#N/A	mg/kg	ug/kg	<200	<200	<10		
75-01-4	Vinyl Chloride	SOLID	#N/A	mg/kg	ug/kg	<120	<120	<6		
75-09-2	Dichloromethane	SOLID	0.03	mg/kg	ug/kg	<200	<200	<10		
75-15-0	Carbon Disulphide	SOLID	0.07	mg/kg	ug/kg	<140	<140	16.0		
75-25-2	Bromoform	SOLID	#N/A	mg/kg	ug/kg	<200	<200	<10		
75-27-4	Bromodichloromethane	SOLID	#N/A	mg/kg	ug/kg	<140	<140	<7		
75-34-3	1,1-Dichloroethane	SOLID	0.01	mg/kg	ug/kg	<160	<160	<8		
75-35-4	1,1-Dichloroethene	SOLID	#N/A	mg/kg	ug/kg	<200	<200	<10		
75-69-4	Trichlorofluoromethane	SOLID	0.05	mg/kg	ug/kg	<120	<120	<6		
75-71-8	Dichlorodifluoromethane	SOLID	#N/A	mg/kg	ug/kg	<120	<120	<6		
77-47-4	Hexachlorocyclopentadiene	SOLID	#N/A	mg/kg	ug/kg	<200	<2000	<100		
78-59-1	Isophorone	SOLID	22.26	mg/kg	ug/kg	<200	<2000	<100		
78-87-5	1,2-Dichloropropane	SOLID	#N/A	mg/kg	ug/kg	<200	<200	<10		
79-00-5	1,1,2-Trichloroethane	SOLID	#N/A	mg/kg	ug/kg	<200	<200	<10		
79-01-6	Trichloroethene	SOLID	0.09	mg/kg	ug/kg	<180	<180	<9		
79-34-5	1,1,2,2-Tetrachloroethane	SOLID	2.66	mg/kg	ug/kg	<200	<200	<10		
84-66-2	Diethyl phthalate	SOLID	3.11	mg/kg	ug/kg	<200	<2000	<100		
84-74-2	Di-N-Butyl Phthalate	SOLID	0.52	mg/kg	ug/kg	47300.0	<2000	<100		
85-68-7	Butylbenzyl phthalate	SOLID	23.36	mg/kg	ug/kg	369000.0	11800.0	<100		
86-74-8	Carbazole	SOLID	0.01	mg/kg	ug/kg	<200	48300.0	<100		
87-61-6	1,2,3-Trichlorobenzene	SOLID	#N/A	mg/kg	ug/kg	<400	<400	<20		
87-68-3	Hexachlorobutadiene	SOLID	#N/A	mg/kg	ug/kg	<200	<2000	<100		
87-86-5	Pentachlorophenol	SOLID	2.17	mg/kg	ug/kg	<200	<2000	<100		
88-06-2	2,4,6-Trichlorophenol	SOLID	#N/A	mg/kg	ug/kg	<200	<2000	<100		
88-75-5	2-Nitrophenol	SOLID	0.03	mg/kg	ug/kg	<200	<2000	<100		
91-57-6	2-Methylnaphthalene (SVOC) DEFAULT	SOLID	0.84	mg/kg	ug/kg	14500.0	35000.0	<100		
91-58-7	2-Chloronaphthalene	SOLID	0.92	mg/kg	ug/kg	<200	<2000	<100		
95-47-6	Xylene	SOLID	0.23	mg/kg	ug/kg	64600.0	1000.0	<10	<10	<2000
95-48-7	2-Methylphenol	SOLID	0.54	mg/kg	ug/kg	<200	<2000	<100		
95-49-8	2-Chlorotoluene	SOLID	#N/A	mg/kg	ug/kg	<180	<180	<9		
95-50-1	1,2-Dichlorobenzene	SOLID	40.42	mg/kg	ug/kg	3260.0	<200	<10		
95-57-8	2-Chlorophenol	SOLID	#N/A	mg/kg	ug/kg	<200	<2000	<100		
95-63-6	1,2,4-Trimethylbenzene	SOLID	0.25	mg/kg	ug/kg	658000.0	17400.0	<9		
95-95-4	2,4,5-Trichlorophenol	SOLID	60.93	mg/kg	ug/kg	<200	<2000	<100		
96-12-8	1,2-Dibromo-3-chloropropane	SOLID	#N/A	mg/kg	ug/kg	<280	<280	<14		
96-18-4	1,2,3-Trichloropropane	SOLID	0.44	mg/kg	ug/kg	<320	<320	<16		
98-06-6	tert-Butylbenzene	SOLID	0.75	mg/kg	ug/kg	<280	<280	<14		
98-82-8	Isopropylbenzene	SOLID	0.27	mg/kg	ug/kg	6930.0	<100	<5		
98-95-3	Nitrobenzene	SOLID	0.00	mg/kg	ug/kg	<200	<2000	<100		
99-87-6	4-Isopropyltoluene	SOLID	54.06	mg/kg	ug/kg	6550.0	<200	<10		
P1374	Xylene	SOLID	0.23	mg/kg	ug/kg	327000.0	4060.0	<10	<10	<2000
P1762	TPH Aromatic >C8-C10	SOLID	219.16	mg/kg	mg/kg					
P1763	TPH Aromatic >C8-C10	SOLID	219.16	mg/kg	mg/kg					
P1334	pH	SOLID	#N/A	mg/kg	pH					
101-21-3	Chlorpropham	SOLID	#N/A	mg/kg	mg/kg					
1014-70-6	Simetryn SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg					
1024-57-3	Heptachlor Epoxide	SOLID	#N/A	mg/kg	ug/kg	<1000				
1031-07-8	Endosulphan Sulphate	SOLID	#N/A	mg/kg	ug/kg	<1000				
117-18-0	Tecnazene	SOLID	#N/A	mg/kg	ug/kg	<1000				
120-36-5	2,4-DP; (Dichlorprop)	SOLID	#N/A	mg/kg	mg/kg	<0.01				
121-75-5	Malathion	SOLID	#N/A	mg/kg	ug/kg	<1000				
122-14-5	Fenitrothion	SOLID	#N/A	mg/kg	ug/kg	<1000				
122-34-9	Simazine SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg					
122-42-9	Propham	SOLID	#N/A	mg/kg	mg/kg					
122-88-3	4-CPA	SOLID	#N/A	mg/kg	mg/kg	<0.01				
13684-63-4	Phenmedipham	SOLID	#N/A	mg/kg	mg/kg					
139-40-2	Propazine SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg					
1461-22-9	Tributyltin SUBCON i2	SOLID	#N/A	mg/kg	ug/kg					
150-68-5	Monuron	SOLID	#N/A	mg/kg	mg/kg					
15545-48-9	Chlortoluron	SOLID	#N/A	mg/kg	mg/kg					
1582-09-8	Trifluralin SUBCON Alcontrol OCP	SOLID	#N/A	mg/kg	ug/kg	<1000				
1610-17-9	Atraton SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg					

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G2 RTM Level 1 - Soils

Hole Ref	AEC18-LF-WS224	AEC18-LF-WS224	AEC18-LF-WS225	AEC18-LF-WS225	AEC18-LF-WS225
Sample Top	3.60	4.50	0.50	2.30	4.55
Lookup soil	MADE GROUND	MADE GROUND	MADE GROUND	MADE GROUND	MG-LF
Sample Ref	6	7	2	5	7
Sample Type	ES	ES	ES	ES	ES

Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	AEC18-LF-WS224	AEC18-LF-WS224	AEC18-LF-WS225	AEC18-LF-WS225	AEC18-LF-WS225
1610-18-0	Prometon SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg					
16118-49-3	Carbetamide	SOLID	#N/A	mg/kg	mg/kg					
1689-83-4	Ioxynil	SOLID	#N/A	mg/kg	mg/kg	<0.01				
1689-84-5	Bromoxynil	SOLID	#N/A	mg/kg	mg/kg	<0.01				
1702-17-6	Clopyralid	SOLID	#N/A	mg/kg	mg/kg					
1746-81-2	Monolinuron	SOLID	#N/A	mg/kg	mg/kg					
18691-97-9	Methabenzthiazuron	SOLID	#N/A	mg/kg	mg/kg					
1897-45-6	Chlorothalonil	SOLID	#N/A	mg/kg	ug/kg	<2000				
1912-24-9	Atrazine SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg					
1918-00-9	Dicamba	SOLID	#N/A	mg/kg	mg/kg	<0.01				
6607	Picloram	SOLID	#N/A	mg/kg	mg/kg					
1967-16-4	Chlorbufam	SOLID	#N/A	mg/kg	mg/kg					
1982-47-4	Chloroxuron	SOLID	#N/A	mg/kg	mg/kg					
19937-59-8	Metoxuron	SOLID	#N/A	mg/kg	mg/kg					
2132-70-9	p,p-Methoxychlor	SOLID	#N/A	mg/kg	ug/kg					
2274-67-1	Chlorpyrifos-methyl	SOLID	#N/A	mg/kg	ug/kg	<1000				
2303-17-5	Triallate	SOLID	#N/A	mg/kg	ug/kg	<1000				
2310-17-0	Phosalone	SOLID	#N/A	mg/kg	ug/kg	<1000				
23103-98-2	Pirimicarb	SOLID	#N/A	mg/kg	mg/kg					
24017-47-8	Triazophos	SOLID	#N/A	mg/kg	ug/kg	<1000				
25057-89-0	Bentazone	SOLID	#N/A	mg/kg	mg/kg	<0.01				
2642-71-9	Azinphos-ethyl	SOLID	#N/A	mg/kg	ug/kg	<1000				
2921-88-2	Chlorpyrifos	SOLID	#N/A	mg/kg	ug/kg	<1000				
29232-93-7	Pirimiphos Methyl	SOLID	#N/A	mg/kg	ug/kg	<1000				
297-78-9	Telodrin	SOLID	#N/A	mg/kg	ug/kg	<1000				
298-00-0	Methyl Parathion	SOLID	#N/A	mg/kg	ug/kg	<1000				
298-01-1	Mevinphos	SOLID	#N/A	mg/kg	ug/kg	<1000				
298-04-4	Disulfoton SUBCON OCP Alcontrol	SOLID	#N/A	mg/kg	ug/kg	<1000				
29973-13-5	Ethiofencarb	SOLID	#N/A	mg/kg	mg/kg					
30667-99-3	o,p-Methoxychlor	SOLID	#N/A	mg/kg	ug/kg	<1000				
309-00-2	Aldrin SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg	<1000				
31218-83-4	Propetamphos	SOLID	#N/A	mg/kg	ug/kg	<1000				
314-40-9	Bromacil	SOLID	#N/A	mg/kg	mg/kg					
319-84-6	alpha-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg	<1000				
	beta-Hexachlorocyclohexane (HCH) SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg	<1000				
319-85-7		SOLID	#N/A	mg/kg	ug/kg					
330-54-1	Diuron SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg					
330-55-2	Linuron	SOLID	#N/A	mg/kg	mg/kg					
33213-65-9	Endosulphan II	SOLID	#N/A	mg/kg	ug/kg	<1000				
333-41-5	Diazinon	SOLID	#N/A	mg/kg	ug/kg	<1000				
34123-59-6	Isoproturon	SOLID	#N/A	mg/kg	mg/kg					
34205-21-5	Dimefuron	SOLID	#N/A	mg/kg	mg/kg					
3424-82-6	o,p-DDE	SOLID	#N/A	mg/kg	ug/kg	<1000				
35367-38-5	Diflufenzuron	SOLID	#N/A	mg/kg	mg/kg					
698836	Benazolin	SOLID	#N/A	mg/kg	mg/kg					
38260-54-7	Etrimephos	SOLID	#N/A	mg/kg	ug/kg	<1000				
40483-25-2	Diclofop	SOLID	#N/A	mg/kg	mg/kg	<0.01				
40487-42-1	Pendimethalin	SOLID	#N/A	mg/kg	ug/kg	<1000				
43121-43-3	Triadimefon	SOLID	#N/A	mg/kg	ug/kg	<1000				
465-73-6	Isodrin	SOLID	#N/A	mg/kg	ug/kg	<1000				
470-90-6	Chlorfenvinphos	SOLID	#N/A	mg/kg	ug/kg	<1000				
50-29-3	p,p-DDT SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg	<1000				
50-31-7	2,3,6-TBA	SOLID	#N/A	mg/kg	mg/kg					
5103-71-9	cis-Chlordane SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg	<1000				
5103-74-2	trans-Chlordane SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg	<1000				
51630-58-1	Fenvalerate SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg					
52315-07-8	Cypermethrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg					
52645-53-1	Permethrin SUBCON RPS MH Pyrethroids	SOLID	#N/A	mg/kg	mg/kg					
52756-22-6	Flamprop-isopropyl	SOLID	#N/A	mg/kg	mg/kg					
52918-63-5	Deltamethrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg					
53-19-0	o,p-TDE (DDD)	SOLID	#N/A	mg/kg	ug/kg	<1000				
55335-06-3	Triclopyr	SOLID	#N/A	mg/kg	mg/kg	<0.01				
55-38-9	Fenthion	SOLID	#N/A	mg/kg	ug/kg	<1000				
563-12-2	Ethion	SOLID	#N/A	mg/kg	ug/kg	<1000				
56-38-2	Parathion (Ethyl Parathion)	SOLID	#N/A	mg/kg	ug/kg	<1000				
58667-63-3	Fiamprop	SOLID	#N/A	mg/kg	mg/kg					

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G2 RTM Level 1 - Soils

Hole Ref	AEC18-LF-WS224	AEC18-LF-WS224	AEC18-LF-WS225	AEC18-LF-WS225	AEC18-LF-WS225
Sample Top	3.60	4.50	0.50	2.30	4.55
Lookup soil	MADE GROUND	MADE GROUND	MADE GROUND	MADE GROUND	MG-LF
Sample Ref	6	7	2	5	7
Sample Type	ES	ES	ES	ES	ES

Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	AEC18-LF-WS224	AEC18-LF-WS224	AEC18-LF-WS225	AEC18-LF-WS225	AEC18-LF-WS225
58-89-9	gamma-Hexachlorocyclohexane (HCH / Lindane)	SOLID	#N/A	mg/kg	ug/kg	<1000				
5915-41-3	Terbutylazine SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg					
60-51-5	Dimethoate	SOLID	#N/A	mg/kg	ug/kg	<1000				
60-57-1	Dieldrin SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg	<1000				
61949-76-6	Permethrin I (cis) SUBCON Alcontrol OCP	SOLID	#N/A	mg/kg	ug/kg					
61949-77-7	Permethrin II (trans) SUBCON Alcontrol OCP	SOLID	#N/A	mg/kg	ug/kg	<1000				
62-73-7	Dichlorvos	SOLID	#N/A	mg/kg	ug/kg	<1000				
639-58-7	Triphenyltin SUBCON I2	SOLID	#N/A	mg/kg	ug/kg					
66063-05-6	Pencycuron	SOLID	#N/A	mg/kg	mg/kg					
68085-85-8	Cyhalothrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg					
683-18-1	Dibutyltin Subcon I2	SOLID	#N/A	mg/kg	ug/kg					
68359-37-5	Cyfluthrin SUBCON RPS MH	SOLID	#N/A	mg/kg	mg/kg					
72-20-8	Endrin SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg	<1000				
72-54-8	p,p-TDE (DDD)	SOLID	#N/A	mg/kg	ug/kg	<1000				
72-55-9	p,p-DDE	SOLID	#N/A	mg/kg	ug/kg	<1000				
7287-19-6	Prometryn SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg					
76-44-8	Heptachlor SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg	<1000				
786-19-6	Carbophenothion	SOLID	#N/A	mg/kg	ug/kg	<1000				
789-02-6	o,p-DDT SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg	<1000				
81406-37-3	Fluroxypyr	SOLID	#N/A	mg/kg	mg/kg	<0.01				
82-68-8	Quintozene; (PCNB)	SOLID	#N/A	mg/kg	ug/kg	<1000				
834-12-8	Ametryn SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg					
86-50-0	Azinphos-methyl	SOLID	#N/A	mg/kg	ug/kg	<1000				
886-50-0	Terbutryn SUBCON Alcontrol	SOLID	#N/A	mg/kg	ug/kg					
93-65-2	MCPP; (Mecoprop)	SOLID	#N/A	mg/kg	mg/kg					
93-72-1	2,4,5-TP; (Fenoprop); (Silvex)	SOLID	#N/A	mg/kg	mg/kg	<0.01				
93-76-5	2,4,5-T	SOLID	#N/A	mg/kg	mg/kg					
94-74-6	MCPA	SOLID	#N/A	mg/kg	mg/kg	<0.01				
94-75-7	2,4-D	SOLID	#N/A	mg/kg	mg/kg	<0.01				
94-81-5	MCPB	SOLID	#N/A	mg/kg	mg/kg	<0.01				
94-82-6	2,4-DB	SOLID	#N/A	mg/kg	mg/kg	<0.01				
959-98-8	Endosulphan I	SOLID	#N/A	mg/kg	ug/kg	<1000				
P1362	TPH Aromatic >C35-C44	SOLID	657.18	mg/kg	mg/kg					
P1415	TPH Aliphatic >C35-C44	SOLID	6927070.30	mg/kg	mg/kg					
120-12-7	Anthracene	SOLID	0.16	mg/kg	ug/kg	256.0	119000.0	<100	79.3	576.0
129-00-0	Pyrene	SOLID	1.88	mg/kg	ug/kg	756.0	267000.0	463.0	813.0	5000.0
191-24-2	Benzo(g,h,i)perylene	SOLID	2.42	mg/kg	ug/kg	<200	46300.0	175.0	209.0	3170.0
193-39-5	Indeno(1,2,3-cd)pyrene	SOLID	0.51	mg/kg	ug/kg	<18	56400.0	200.0	232.0	3520.0
205-99-2	Benzo(b)fluoranthene	SOLID	0.61	mg/kg	ug/kg	<15	103000.0	213.0	581.0	4910.0
206-44-0	Fluoranthene	SOLID	0.01	mg/kg	ug/kg	695.0	339000.0	525.0	965.0	6200.0
207-08-9	Benzo(k)fluoranthene	SOLID	0.86	mg/kg	ug/kg	<14	49200.0	200.0	210.0	1670.0
208-96-8	Acenaphthylene	SOLID	1.01	mg/kg	ug/kg	<200	4040.0	<100	18.5	137.0
218-01-9	Chrysene	SOLID	6.38	mg/kg	ug/kg	327.0	87700.0	225.0	371.0	2850.0
50-32-8	Benzo(a)pyrene	SOLID	0.07	mg/kg	ug/kg	<15	83700.0	213.0	386.0	4380.0
53-70-3	Dibenzo(a,h)anthracene	SOLID	10.80	mg/kg	ug/kg	<200	7690.0	<100	45.4	598.0
56-55-3	Benzo(a)anthracene	SOLID	4.50	mg/kg	ug/kg	163.0	99300.0	238.0	427.0	3500.0
83-32-9	Acenaphthene	SOLID	965.39	mg/kg	ug/kg	537.0	85500.0	<100	97.7	65.5
85-01-8	Phenanthrene	SOLID	3.35	mg/kg	ug/kg	2040.0	372000.0	313.0	293.0	1690.0
86-73-7	Fluorene	SOLID	1.76	mg/kg	ug/kg	988.0	75000.0	<100	81.7	113.0
91-20-3	Napthalene	SOLID	0.08	mg/kg	ug/kg	51600.0	10200.0	<100	17.7	<45
302-04-5	Thiocyanate	SOLID	62.96	mg/kg	mg/kg	<0.5				
P1879	Xylenols	SOLID - INITIAL	2.39	mg/kg	mg/kg	0.9	3.5	<0.015	<0.015	<0.015
P2098	Cresols	SOLID - INITIAL	0.54	mg/kg	mg/kg	0.2	1.1	<0.01	<0.01	<0.01
12001-28-4	Asbestos: Crocidolite	SOLID - INITIAL	#N/A	mg/kg	No units	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
12001-29-5	Asbestos: Chrysotile	SOLID - INITIAL	#N/A	mg/kg	No units	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
12172-67-7	Asbestos: Actinolite	SOLID - INITIAL	#N/A	mg/kg	No units	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
12172-73-5	Asbestos: Amosite	SOLID - INITIAL	#N/A	mg/kg	No units	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
14567-73-8	Asbestos: Tremolite	SOLID - INITIAL	#N/A	mg/kg	No units	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
17068-78-9	Asbestos: Anthophyllite	SOLID - INITIAL	#N/A	mg/kg	No units	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
1002-53-5	Dibutyl Tin	SOLID - INITIAL	0.00	mg/kg	mg/kg	<0.02				
1461-22-9	Tributyltin	SOLID - INITIAL	0.00	mg/kg	mg/kg	<0.02				
1461-25-2	Tetrabutyl Tin	SOLID - INITIAL	0.00	mg/kg	mg/kg	<0.02				
1634-04-4	Methyl tert-butyl ether (MTBE)	SOLID - INITIAL	#N/A	mg/kg	ug/kg	<200	<200	<10		<2000
1746-01-6	2,3,7,8-Tetrachlorodibenzo-p-dioxin	SOLID - INITIAL	#N/A	mg/kg	ng/g	<0.00066				
181274-15-7	Propoxycarbazono-sodium	SOLID - INITIAL	#N/A	mg/kg	mg/kg	<0.01				
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-P-Dioxin	SOLID - INITIAL	94064.99	mg/kg	ng/g	0.0				
298-02-2	Phorate	SOLID - INITIAL	#N/A	mg/kg	ug/kg	<1000				

Appendix G

G2 RTM Level 1 - Soils

Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	Hole Ref				
						AEC18-LF-WS224	AEC18-LF-WS224	AEC18-LF-WS225	AEC18-LF-WS225	AEC18-LF-WS225
						21.0				
31508-00-6	PCB-118 2,3',4,4',5 - Pentachlorobiphenyl	SOLID - INITIAL	694.02	mg/kg	ng/g					
32598-13-3	PCB 77	SOLID - INITIAL	6185.41	mg/kg	ng/g	1.2				
32598-14-4	PCB 105	SOLID - INITIAL	8940.63	mg/kg	ng/g	11.0				
3268-87-9	Octachlorodibenzo-p-dioxin	SOLID - INITIAL	91923.81	mg/kg	ng/g	1.6				
32774-16-6	PCB 169	SOLID - INITIAL	37270.75	mg/kg	ng/g	0.3				
3380-34-5	Triclosan	SOLID - INITIAL	0.33	mg/kg	mg/kg	<0.01				
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-P-Dioxin	SOLID - INITIAL	91923.81	mg/kg	ng/g	1.0				
38380-08-4	PCB-156 2,3,3,4,4,5 - Hexachlorobiphenyl	SOLID - INITIAL	3172.26	mg/kg	ng/g	2.3				
39001-02-0	Octachlorodibenzofuran	SOLID - INITIAL	46180.43	mg/kg	ng/g	0.4				
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-P-Dioxin	SOLID - INITIAL	36595.53	mg/kg	ng/g	0.0				
39635-31-9	PCB 189	SOLID - INITIAL	270002.64	mg/kg	ng/g	0.4				
40321-76-4	1,2,3,7,8-Pentachlorodibenzo-P-Dioxin	SOLID - INITIAL	#N/A	mg/kg	ng/g	<0.00082				
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	SOLID - INITIAL	393.06	mg/kg	ng/g	0.0				
52645-53-1	Permethrin	SOLID - INITIAL	#N/A	mg/kg	ug/kg	<1000				
52663-72-6	PCB 167	SOLID - INITIAL	45853.03	mg/kg	ng/g	6.2				
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	SOLID - INITIAL	9648.46	mg/kg	ng/g	0.0				
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	SOLID - INITIAL	964.85	mg/kg	ng/g	0.0				
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	SOLID - INITIAL	715.25	mg/kg	ng/g	0.0				
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	SOLID - INITIAL	715.25	mg/kg	ng/g	0.0				
57465-28-8	PCB 126	SOLID - INITIAL	8940.63	mg/kg	ng/g	<0.017				
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-P-Dioxin	SOLID - INITIAL	91923.81	mg/kg	ng/g	0.1				
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofura	SOLID - INITIAL	715.25	mg/kg	ng/g	0.0				
62476-59-9	Acifluorfen	SOLID - INITIAL	#N/A	mg/kg	mg/kg	<0.01				
65510-44-3	PCB 123	SOLID - INITIAL	8940.63	mg/kg	ng/g	0.4				
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	SOLID - INITIAL	715.25	mg/kg	ng/g	0.6				
69782-90-7	PCB 157	SOLID - INITIAL	45853.03	mg/kg	ng/g	1.4				
70362-50-4	PCB 81	SOLID - INITIAL	8940.63	mg/kg	ng/g	0.4				
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	SOLID - INITIAL	715.25	mg/kg	ng/g	0.0				
7085-19-0	mecoprop	SOLID - INITIAL	#N/A	mg/kg	mg/kg	<0.01				
72-43-5	Methoxychlor	SOLID - INITIAL	#N/A	mg/kg	ug/kg	<1000				
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	SOLID - INITIAL	#N/A	mg/kg	ng/g	<0.0014				
74472-37-0	PCB 114	SOLID - INITIAL	8940.63	mg/kg	ng/g	0.3				
88-85-7	Dinoseb	SOLID - INITIAL	#N/A	mg/kg	mg/kg	<0.01				
892-20-6	Triphenyltin	SOLID - INITIAL	#N/A	mg/kg	mg/kg	<0.05				
P1330	BTEX	SOLID - INITIAL	0.00	mg/kg	ug/kg	542000.0	6450.0	<40		<8000
P1354	TPH Aromatic >C6-C7	SOLID - INITIAL	0.05	mg/kg	ug/kg	<200	<200	<10		<10
P1355	TPH Aromatics > C7-C8	SOLID - INITIAL	#N/A	mg/kg	ug/kg	204000.0	1450.0	<10		<10
P1356	Aromatics >C8-10	SOLID - INITIAL	#N/A	mg/kg	ug/kg	1550000.0	108000.0	223.0		2460.0
P1357	Aromatics >C10-12	SOLID - INITIAL	#N/A	mg/kg	ug/kg	750000.0	131000.0	263.0		499.0
P1358	Aromatics >C12-16	SOLID - INITIAL	#N/A	mg/kg	ug/kg	339000.0	750000.0	6340.0		5630.0
P1359	Aromatics >C16-21	SOLID - INITIAL	#N/A	mg/kg	ug/kg	767000.0	2430000.0	22100.0		48600.0
P1360	Aromatics >C21-35	SOLID - INITIAL	#N/A	mg/kg	ug/kg	4020000.0	3960000.0	62600.0		316000.0
P1362	Aromatics >C35-44	SOLID - INITIAL	#N/A	mg/kg	ug/kg	750000.0	786000.0	77700.0		115000.0
P1407	Aliphatics >C5-6	SOLID - INITIAL	#N/A	mg/kg	ug/kg	7070.0	203.0	13.8		33.3
P1408	Aliphatics >C6-8	SOLID - INITIAL	#N/A	mg/kg	ug/kg	141000.0	2110.0	43.8		148.0
P1409	Aliphatics >C8-10	SOLID - INITIAL	#N/A	mg/kg	ug/kg	2320000.0	161000.0	334.0		3690.0
P1410	Aliphatics >C10-12	SOLID - INITIAL	#N/A	mg/kg	ug/kg	1130000.0	196000.0	394.0		749.0
P1411	Aliphatics >C12-16	SOLID - INITIAL	#N/A	mg/kg	ug/kg	1110000.0	190000.0	9930.0		6070.0
P1412	Aliphatics >C16-21	SOLID - INITIAL	#N/A	mg/kg	ug/kg	3910000.0	661000.0	28300.0		49000.0
P1413	Aliphatics >C21-35	SOLID - INITIAL	#N/A	mg/kg	ug/kg	17000000.0	2320000.0	44700.0		408000.0
P1415	Aliphatics >C35-44	SOLID - INITIAL	#N/A	mg/kg	ug/kg	2400000.0	342000.0	63000.0		104000.0
15541-45-4	Bromate	SOLID - INITIAL	#N/A	mg/kg	mg/kg					
16065-83-1	Trivalent Chromium	SOLID - INITIAL	#N/A	mg/kg	mg/kg	<0.3				
16887-00-6	Chloride	SOLID - INITIAL	268.18	mg/kg	mg/kg	159.0				
16984-48-8	Fluoride	SOLID - INITIAL	0.41	mg/kg	mg/kg	<5				
18496-25-8	Sulphide	SOLID - INITIAL	#VALUE!	mg/kg	mg/kg	0.5				
24959-67-9	Bromide	SOLID - INITIAL	#VALUE!	mg/kg	mg/kg	1.7				
7439-89-6	Iron	SOLID - INITIAL	44.05	mg/kg	mg/kg	<0.19				
7439-95-4	Magnesium	SOLID - INITIAL	0.00	mg/kg	mg/kg	8.3				
7439-98-7	Molybdenum	SOLID - INITIAL	0.10	mg/kg	mg/kg	3.1				
2023695	Potassium	SOLID - INITIAL	0.00	mg/kg	mg/kg	48.6				
7440-23-5	Sodium	SOLID - INITIAL	263.64	mg/kg	mg/kg	783.0				
7440-70-2	Calcium	SOLID - INITIAL	0.00	mg/kg	mg/kg	149.0				
P1238	Ammoniacal Nitrogen as N	SOLID - INITIAL	0.11	mg/kg	mg/kg	106.0				
P1286	Manganese	SOLID - INITIAL	2.51	mg/kg	mg/kg	0.5				
100-01-6	4-Nitroaniline	SOLID - INITIAL	0.00	mg/kg	ug/kg	<200	<2000	<100		
101-55-3	4-Bromophenyl Phenyl Ether	SOLID - INITIAL	#N/A	mg/kg	ug/kg	<200	<2000	<100		

Appendix G

G2 RTM Level 1 - Soils

Hole Ref	AEC18-LF-WS224	AEC18-LF-WS224	AEC18-LF-WS225	AEC18-LF-WS225	AEC18-LF-WS225
Sample Top	3.60	4.50	0.50	2.30	4.55
Lookup soil	MADE GROUND	MADE GROUND	MADE GROUND	MADE GROUND	MG-LF
Sample Ref	6	7	2	5	7
Sample Type	ES	ES	ES	ES	ES

Contaminant Code	Contaminant Name	Test Type	RTM screening value	Screening units	Sample Type	AEC18-LF-WS224	AEC18-LF-WS224	AEC18-LF-WS225	AEC18-LF-WS225	AEC18-LF-WS225
103-33-3	Azobenzene	SOLID - INITIAL	0.38	mg/kg	ug/kg	<200	<2000	<100		
106-47-8	4-Chloroaniline	SOLID - INITIAL	0.01	mg/kg	ug/kg	<200	<2000	<100		
700-57-23	4-Chlorophenylphenylether	SOLID - INITIAL	#N/A	mg/kg	ug/kg	<200	<2000	<100		
88-74-4	2-Nitroaniline	SOLID - INITIAL	0.01	mg/kg	ug/kg	<200	<2000	<100		
99-09-2	3-Nitroaniline	SOLID - INITIAL	#N/A	mg/kg	ug/kg	<200	<2000	<100		
994-05-8	Tertiary Amyl Methyl Ether	SOLID - INITIAL	#N/A	mg/kg	ug/kg	<200	<200	<10		
1336-36-6	PCB Total (WAC only)	SOLID	#N/A	mg/kg	mg/kg					
P1330	BTEX (total) WAC	SOLID	#N/A	mg/kg	mg/kg					

G3 Soil Leachate Screening Assessment

						Sample Identity	BH227	TP221	WS203	BH203	TP211	TP215	TP223	TP261	BH204	BH210	GW206	BH217
						Depth	1.80-2.00	0.20-0.20	0.20-0.30	5.30-5.40	3.00-3.00	4.10-4.30	3.50-3.70	5.50-5.50	11.00-11.20	6.80-7.00	7.60-7.80	13.20-13.50
						Date	07/12/2018	26/06/2018	21/06/2018	26/06/2018	14/06/2018	21/06/2018	25/06/2018	06/07/2018	09/07/2018	03/12/2018	29/11/2018	03/12/2018
						Waste Type	Non-Chalky Cover	Non-Chalky Cover	Non-Chalky Cover	Recent Domestic	Recent Domestic	Recent Domestic	Recent Domestic	Recent Domestic	Old Domestic	Old Domestic	Old Domestic	Construction
Compound	Units	Screening Criteria	Standard	Number of samples	Number of Exceedences													
Temperature	°C	nc	-	25	0	16.7	20.8	21.2	20.7	20.8	20.6	20.6	21.4	21.7	17	13.2	16.9	
pH	pH Units	6 to 9	FEQS	25	0	8.09	8.24	8.25	7.52	8.02	8.17	8.12	8.11	8.04	7.61	8.04	8.36	
Conductivity @ 20 deg.C	µS/cm	2500	UK DWS	25	0	334	114	142	691	338	249	430	291	353	591	494	334	
pH	pH Units	6 to 9	FEQS	65	0	7.82	8.31	8.24	7.92	8.19	8.35	8.31	8.24	8.15	7.93	7.98	8.41	
Cyanide, Total	mg/l	0.05	UK DWS	65	0	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
Cyanide, Complex	mg/l	0.05	UK DWS	59	0	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
Cyanide, Free	mg/l	0.05	UK DWS	65	0	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
Sulphate	mg/l	250	UK DWS	65	1	16.1	<2	<2	244	46.2	27.3	36.4	16.5	4.9	205	139	26.3	
Sulphide	mg/l	nc	-	65	0	0.206	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.0107	<0.01	
Chloride	mg/l	250	UK DWS	65	0	26.6	<2	<2	9.3	4.3	<2	25.3	8.3	9.7	5.7	5.2	8.5	
Fluoride	mg/l	1.5	UK DWS	65	2	2.49	1.03	0.565	<0.5	0.66	<0.5	<0.5	0.718	<0.5	2.18	<0.5	<0.5	
Ammoniacal Nitrogen as N	mg/l	0.39	UK DWS	63	20	2.3	<0.2	<0.2	4.91	6.91	1.67	19.5	7.65	13.2	5.18	21.1	20.4	
Nitrite as NO ₂	mg/l	0.5	UK DWS	25	1	<0.05	<0.05	0.546	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
Nitrate as NO ₃	mg/l	50	UK DWS	25	0	<0.3	1.87	3.89	<0.3	<0.3	0.341	<0.3	<0.3	<0.3	<0.3	0.301	<0.3	
Bromide	mg/l	nc	-	25	0	<0.06	<0.06	<0.06	<0.06	0.09	<0.06	0.071	<0.06	0.088	<0.06	<0.06	<0.06	
Thiocyanate	mg/l	0.05	UK DWS	25	1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
Alkalinity, Total as CaCO ₃	mg/l	nc	-	25	0	135	70	85	150	130	130	170	140	180	140	148	150	
Total Suspended Solids	mg/l	nc	-	25	0	-	-	-	-	-	-	-	-	-	<4	10.8	-	
Total Oxidised Nitrogen as N	mg/l	nc	-	25	0	<0.1	0.431	1.05	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Hardness, Total s CaCO ₃	mg/l	nc	-	25	0	87.4	88.1	93.6	394	159	144	98.9	121	134	321	193	69.8	
Antimony	mg/l	0.005	UK DWS	65	14	0.459	<0.001	<0.001	0.00212	0.00462	0.00141	0.00621	0.0368	0.00475	0.0061	0.0316	0.0216	
Arsenic	mg/l	0.01	UK DWS	65	2	0.011	<0.0005	0.000619	0.00325	0.00378	0.00142	0.00887	0.00349	0.0045	0.00214	0.00439	0.00397	
Barium	mg/l	0.7	WHO	65	0	0.159	0.00714	0.0097	0.1	0.109	0.0538	0.0472	0.0781	0.135	0.123	0.208	0.107	
Beryllium	mg/l	0.004	USEPA	65	0	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	
Boron	mg/l	1	UK DWS	65	2	2.3	<0.01	<0.01	0.112	0.4	0.0917	0.186	0.239	0.212	0.765	0.843	0.9	
Cadmium	mg/l	0.005	UK DWS	65	0	0.000109	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	0.000155	
Hexavalent Chromium	mg/l	0.0034	FEQS	65	1	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	
Chromium III	mg/l	0.0047	FEQS	65	0	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	
Chromium	mg/l	0.05	UK DWS	65	0	0.00894	0.00976	0.0103	0.00132	0.0148	0.00859	0.00948	0.0078	0.00838	0.00688	0.0095	0.00844	
Copper	mg/l	2	UK DWS	65	0	0.00464	0.000952	0.00246	<0.0003	0.00504	<0.0003	0.00189	0.0149	0.00191	0.00186	0.00326	0.000918	
Iron	mg/l	0.2	UK DWS	65	7	<0.019	0.843	0.1	0.169	0.957	0.215	0.186	<0.019	<0.019	<0.019	<0.019	<0.019	
Lead	mg/l	0.01	UK DWS	65	1	<0.0002	<0.0002	<0.0002	<0.0002	0.00114	0.000603	0.000756	0.00086	<0.0002	0.011	0.00431	0.000322	
Manganese	mg/l	0.05	UK DWS	65	8	0.0141	<0.003	<0.003	0.676	0.0369	0.0253	0.0261	0.0342	0.0366	0.304	0.067	0.0258	
Mercury	mg/l	0.001	UK DWS	65	0	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	
Molybdenum	mg/l	0.07	WHO	65	4	0.0649	<0.003	<0.003	0.0169	0.0171	0.0179	0.037	0.0309	0.0399	0.0173	0.0241	0.106	
Nickel	mg/l	0.02	UK DWS	65	5	0.0186	0.000462	0.000546	0.00259	0.146	0.00375	0.00923	0.00362	0.00599	0.00875	0.00517	0.0142	
Selenium	mg/l	0.01	UK DWS	65	0	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Vanadium	mg/l	0.02	FEQS	65	2	0.00907	<0.001	<0.001	<0.001	<0.001	0.00105	0.00233	0.00147	<0.001	<0.001	<0.001	<0.001	
Zinc	mg/l	5	USEPA	65	0	0.0021	<0.001	<0.001	0.00173	0.0195	0.0248	0.0044	0.00745	0.00291	0.0296	0.0236	0.00154	
Calcium	mg/l	nc	-	65	0	24.2	23.9	29.8	135	51.7	48	30.6	42.5	48.6	114	40.1	17.1	
Magnesium	mg/l	nc	-	65	0	1.16	0.2	0.534	3.73	3.02	2.07	3.04	3.48	3.13	7.57	17.4	4.91	
Sodium	mg/l	50	WHO	25	1	43.1	1.11	1.57	18.9	5.57	3.96	20.6	7.72	7.72	8.64	11.2	13.8	
Potassium	mg/l	nc	-	25	0	8.13	<0.2	0.601	5.34	6.15	2.72	18.7	11.1	11.1	7.4	13.1	10.8	
Catechol	ug/l	7.7	FEQS	40	0													
Resorcinol	ug/l	7.7	FEQS	40	0													
Ethylphenol & Dimethylphenol	ug/l	100	FEQS	40	0													
Cresols	ug/l	100	FEQS	40	0													

Appendix G

G3 Soil Leachate Screening Assessment

						Sample Identity	BH227	TP221	WS203	BH203	TP211	TP215	TP223	TP261	BH204	BH210	GW206	BH217
						Depth	1.80-2.00	0.20-0.20	0.20-0.30	5.30-5.40	3.00-3.00	4.10-4.30	3.50-3.70	5.50-5.50	11.00-11.20	6.80-7.00	7.60-7.80	13.20-13.50
						Date	07/12/2018	26/06/2018	21/06/2018	26/06/2018	14/06/2018	21/06/2018	25/06/2018	06/07/2018	09/07/2018	03/12/2018	29/11/2018	03/12/2018
						Waste Type	Non-Chalky Cover	Non-Chalky Cover	Non-Chalky Cover	Recent Domestic	Recent Domestic	Recent Domestic	Recent Domestic	Recent Domestic	Old Domestic	Old Domestic	Old Domestic	Construction
Compound	Units	Screening Criteria	Standard	Number of samples	Number of Exceedences													
Naphthols	ug/l	7.7	FEQS	40	0													
Phenol	ug/l	7.7	FEQS	40	0													
Trimethylphenol	ug/l	100	FEQS	40	0													
Total Phenols	ug/l	7.7	FEQS	40	0													
Benzene	ug/l	1	UK DWS	2	0													
Toluene	ug/l	74	FEQS	2	0													
Ethylbenzene	ug/l	20	FEQS	2	0													
p & m-xylene	ug/l	30	FEQS	2	0													
o-xylene	ug/l	30	FEQS	2	0													
MTBE	ug/l	15	WHO	2	0													
TPH-CWG - Aliphatic >C5-C6	ug/l	15000	WHO	2	0													
TPH-CWG - Aliphatic >C6-C8	ug/l	15000	WHO	2	0													
TPH-CWG - Aliphatic >C8-C10	ug/l	300	WHO	2	0													
TPH-CWG - Aliphatic >C10-C12	ug/l	300	WHO	2	0													
TPH-CWG - Aliphatic >C12-C16	ug/l	300	WHO	2	0													
TPH-CWG - Aliphatic >C16-C21	ug/l	300	WHO	2	0													
TPH-CWG - Aliphatic >C21-C35	ug/l	300	WHO	2	0													
TPH-CWG - Aliphatic (C5-C35)	ug/l	nc	-	2	0													
TPH-CWG - Aromatic >C5-C7	ug/l	10	WHO	2	0													
TPH-CWG - Aromatic >C7-C8	ug/l	700	WHO	2	0													
TPH-CWG - Aromatic >C8-C10	ug/l	300	WHO	2	0													
TPH-CWG - Aromatic >C10-C12	ug/l	90	WHO	2	0													
TPH-CWG - Aromatic >C12-C16	ug/l	90	WHO	2	0													
TPH-CWG - Aromatic >C16-C21	ug/l	90	WHO	2	0													
TPH-CWG - Aromatic >C21-C35	ug/l	90	WHO	2	0													
TPH-CWG - Aromatic (C5-C35)	ug/l	nc	-	2	0													

G3 Soil Leachate Screening Assessment

						Sample Identity	BH209 (PFCP73)	TP208	TP215	TP226	TP268A	WS224	BWS216	TP228	TP237	TP241	TP250	TP251
						Depth	4.70-4.90	0.60-0.80	0.80-1.00	1.50-1.50	1.50-1.50	3.60-3.90	2.20-2.50	2.50-2.50	4.50-4.50	4.50-4.50	4.10-4.20	4.00-4.20
						Date	11/07/2018	19/06/2018	21/06/2018	27/06/2018	13/07/2018	06/12/2018	16/07/2018	28/06/2018	12/07/2018	17/07/2018	03/12/2018	05/12/2018
						Waste Type	Construction	Construction	Construction	Construction	Construction	Construction	Industrial	Industrial	Industrial	Industrial	Industrial	Industrial
Compound	Units	Screening Criteria	Standard	Number of samples	Number of Exceedences													
Temperature	°C	nc	-	25	0	19.6	20.6	20.6	20.8	21.2	16.7	22.8	20.9	21.6	23.1	17.3	14.9	
pH	pH Units	6 to 9	FEQS	25	0	8.77	7.45	7.72	8.06	7.99	8.31	7.6	6.69	7.41	8.17	7.91	8.14	
Conductivity @ 20 deg.C	µS/cm	2500	UK DWS	25	0	310	134	171	212	263	445	293	228	274	612	717	299	
pH	pH Units	6 to 9	FEQS	65	0	8.73	8.31	8.25	8.3	8.2	7.64	8.31	8.2	8.16	8.25	7.83	8.04	
Cyanide, Total	mg/l	0.05	UK DWS	65	0	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
Cyanide, Complex	mg/l	0.05	UK DWS	59	0	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
Cyanide, Free	mg/l	0.05	UK DWS	65	0	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
Sulphate	mg/l	250	UK DWS	65	1	43.5	12.4	26.4	23.9	12.8	11.4	44.5	52.3	16.9	93.1	299	29.2	
Sulphide	mg/l	nc	-	65	0	0.0364	<0.01	<0.01	<0.01	<0.01	0.0483	<0.01	<0.01	<0.01	<0.01	<0.01	0.0438	
Chloride	mg/l	250	UK DWS	65	0	31.5	<2	<2	<2	8.4	15.9	<2	5.3	5.6	12.5	3.5	3	
Fluoride	mg/l	1.5	UK DWS	65	2	<0.5	0.708	0.523	0.891	<0.5	<0.5	0.753	0.618	0.537	<0.5	<0.5	<0.5	
Ammoniacal Nitrogen as N	mg/l	0.39	UK DWS	63	20	14	<0.2	<0.2	0.855	5.17	10.6	<0.2	2.41	5.93	23	20.7	6.51	
Nitrite as NO ₂	mg/l	0.5	UK DWS	25	1	0.246	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.088	
Nitrate as NO ₃	mg/l	50	UK DWS	25	0	<0.3	1.32	1.31	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	0.367	0.84	<0.3	
Bromide	mg/l	nc	-	25	0	0.175	<0.06	<0.06	<0.06	<0.06	0.169	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	
Thiocyanate	mg/l	0.05	UK DWS	25	1	0.292	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
Alkalinity, Total as CaCO ₃	mg/l	nc	-	25	0	95	65	90	105	135	222	125	85	140	215	100	154	
Total Suspended Solids	mg/l	nc	-	25	0	-	-	-	-	-	8.6	-	-	-	-	-	20.9	
Total Oxidised Nitrogen as N	mg/l	nc	-	25	0	<0.1	0.305	0.301	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.196	<0.1	
Hardness, Total s CaCO ₃	mg/l	nc	-	25	0	81.6	76.2	96.8	130	121	44.4	173	121	132	176	341	166	
Antimony	mg/l	0.005	UK DWS	65	14	0.146	<0.001	0.0012	0.00222	0.0146	0.156	0.00543	0.00262	0.0208	0.0105	0.0167	0.0276	
Arsenic	mg/l	0.01	UK DWS	65	2	0.0469	0.000897	0.000771	0.0013	0.00403	0.00662	<0.0005	0.00422	0.00618	0.00338	0.00493	0.00705	
Barium	mg/l	0.7	WHO	65	0	0.358	0.0138	0.0572	0.117	0.208	0.122	0.147	0.0413	0.276	0.179	0.0928	0.211	
Beryllium	mg/l	0.004	USEPA	65	0	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.000102	<0.0001	<0.0001	<0.0001	<0.0001	
Boron	mg/l	1	UK DWS	65	2	0.347	0.0669	0.105	0.0276	0.2	0.464	0.188	0.0542	0.284	0.597	2.28	0.241	
Cadmium	mg/l	0.005	UK DWS	65	0	0.000117	<0.00008	<0.00008	<0.00008	<0.00008	0.000453	0.0000828	<0.00008	<0.00008	0.0000819	<0.00008	0.00133	
Hexavalent Chromium	mg/l	0.0034	FEQS	65	1	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.0374	<0.03	<0.03	<0.03	
Chromium III	mg/l	0.0047	FEQS	65	0	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	
Chromium	mg/l	0.05	UK DWS	65	0	0.00912	0.00763	0.00996	0.00893	0.00798	0.00965	0.0142	0.0116	0.0077	0.0124	0.00823	0.00906	
Copper	mg/l	2	UK DWS	65	0	0.0116	<0.0003	0.00302	0.0012	0.00471	0.00281	0.0181	0.0019	0.00592	0.00558	0.00694	0.0182	
Iron	mg/l	0.2	UK DWS	65	7	0.466	<0.019	0.688	0.441	<0.019	<0.019	<0.019	1.82	<0.019	<0.019	<0.019	<0.019	
Lead	mg/l	0.01	UK DWS	65	1	0.000752	<0.0002	0.00158	0.000969	0.0009	0.00265	0.00372	0.00341	0.000428	0.000372	0.00218	0.00178	
Manganese	mg/l	0.05	UK DWS	65	8	<0.003	<0.003	0.0134	0.114	0.0389	0.0474	<0.003	0.0917	0.0698	0.0921	0.0348	0.0439	
Mercury	mg/l	0.001	UK DWS	65	0	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	
Molybdenum	mg/l	0.07	WHO	65	4	0.151	0.006	0.00568	0.0106	0.0152	0.308	0.0098	0.0129	0.06	0.051	0.0299	0.922	
Nickel	mg/l	0.02	UK DWS	65	5	0.0677	<0.0004	0.00152	0.00194	0.00609	0.106	0.014	0.00366	0.0371	0.0174	0.0125	0.0318	
Selenium	mg/l	0.01	UK DWS	65	0	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Vanadium	mg/l	0.02	FEQS	65	2	0.0251	<0.001	0.00185	0.00104	0.00156	0.00227	<0.001	0.00602	0.00274	<0.001	0.00112	0.0218	
Zinc	mg/l	5	USEPA	65	0	0.00858	0.00129	0.00771	0.00498	0.0118	0.0234	0.00873	0.01	0.0534	0.0189	0.0101	0.0425	
Calcium	mg/l	nc	-	65	0	29.8	26.1	31.4	45	43.3	14.9	63.1	36.4	48.7	56.6	115	54.6	
Magnesium	mg/l	nc	-	65	0	1.74	0.629	1.47	0.942	3.08	0.826	1.71	0.869	2.36	5.36	4.97	2.56	
Sodium	mg/l	50	WHO	25	1	15.4	3.36	4.17	1.96	9.45	78.3	1.99	8.18	2.98	27.4	5.67	2.85	
Potassium	mg/l	nc	-	25	0	14.1	1.19	2.14	3.05	6.79	4.86	1.89	3.31	8.93	19	9.38	3.13	
Catechol	ug/l	7.7	FEQS	40	0													
Resorcinol	ug/l	7.7	FEQS	40	0													
Ethylphenol & Dimethylphenol	ug/l	100	FEQS	40	0													
Cresols	ug/l	100	FEQS	40	0													

Appendix G

G3 Soil Leachate Screening Assessment

Sample Identity	BH209 (PFCP73)	TP208	TP215	TP226	TP268A	WS224	BWS216	TP228	TP237	TP241	TP250	TP251
Depth	4.70-4.90	0.60-0.80	0.80-1.00	1.50-1.50	1.50-1.50	3.60-3.90	2.20-2.50	2.50-2.50	4.50-4.50	4.50-4.50	4.10-4.20	4.00-4.20
Date	11/07/2018	19/06/2018	21/06/2018	27/06/2018	13/07/2018	06/12/2018	16/07/2018	28/06/2018	12/07/2018	17/07/2018	03/12/2018	05/12/2018
Waste Type	Construction	Construction	Construction	Construction	Construction	Construction	Industrial	Industrial	Industrial	Industrial	Industrial	Industrial

Compound	Units	Screening Criteria	Standard	Number of samples	Number of Exceedences														
Naphthols	ug/l	7.7	FEQS	40	0														
Phenol	ug/l	7.7	FEQS	40	0														
Trimethylphenol	ug/l	100	FEQS	40	0														
Total Phenols	ug/l	7.7	FEQS	40	0														
Benzene	ug/l	1	UK DWS	2	0														
Toluene	ug/l	74	FEQS	2	0														
Ethylbenzene	ug/l	20	FEQS	2	0														
p & m-xylene	ug/l	30	FEQS	2	0														
o-xylene	ug/l	30	FEQS	2	0														
MTBE	ug/l	15	WHO	2	0														
TPH-CWG - Aliphatic >C5-C6	ug/l	15000	WHO	2	0														
TPH-CWG - Aliphatic >C6-C8	ug/l	15000	WHO	2	0														
TPH-CWG - Aliphatic >C8-C10	ug/l	300	WHO	2	0														
TPH-CWG - Aliphatic >C10-C12	ug/l	300	WHO	2	0														
TPH-CWG - Aliphatic >C12-C16	ug/l	300	WHO	2	0														
TPH-CWG - Aliphatic >C16-C21	ug/l	300	WHO	2	0														
TPH-CWG - Aliphatic >C21-C35	ug/l	300	WHO	2	0														
TPH-CWG - Aliphatic (C5-C35)	ug/l	nc	-	2	0														
TPH-CWG - Aromatic >C5-C7	ug/l	10	WHO	2	0														
TPH-CWG - Aromatic >C7-C8	ug/l	700	WHO	2	0														
TPH-CWG - Aromatic >C8-C10	ug/l	300	WHO	2	0														
TPH-CWG - Aromatic >C10-C12	ug/l	90	WHO	2	0														
TPH-CWG - Aromatic >C12-C16	ug/l	90	WHO	2	0														
TPH-CWG - Aromatic >C16-C21	ug/l	90	WHO	2	0														
TPH-CWG - Aromatic >C21-C35	ug/l	90	WHO	2	0														
TPH-CWG - Aromatic (C5-C35)	ug/l	nc	-	2	0														

G3 Soil Leachate Screening Assessment

						Sample Identity	TP263	Concept_BH01	Concept_BH2	Concept_BH2	Concept_BH05	Concept_BH07	Concept_BH07	Concept_BH08	Concept_BH08	Concept_BH9	Concept_BH10	Concept_WS03
						Depth	3.50-3.50	0.7	0.2	0.5	0.4	0.5	1	0.1	0.5	0.3	0.1-0.3	0.5
						Date	09/07/2018	09/10/2014	11/08/2014	11/08/2014	02/10/2014	22/08/2014	22/08/2014	12/08/2014	12/08/2014	06/08/2017	21/08/2014	15/09/2014
						Waste Type	Commercial	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG
Compound	Units	Screening Criteria	Standard	Number of samples	Number of Exceedences													
Temperature	°C	nc	-	25	0	21.6												
pH	pH Units	6 to 9	FEQS	25	0	8.25												
Conductivity @ 20 deg.C	µS/cm	2500	UK DWS	25	0	598												
pH	pH Units	6 to 9	FEQS	65	0	8.16	8.1	8.2	7.9	10.2	10.4	11.2	10.7	8.2	9.4	8.3	11.2	
Cyanide, Total	mg/l	0.05	UK DWS	65	0	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cyanide, Complex	mg/l	0.05	UK DWS	59	0	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cyanide, Free	mg/l	0.05	UK DWS	65	0	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sulphate	mg/l	250	UK DWS	65	1	124	5.02	3.74	3.95	47.1	13	22.2	39.2	6.51	23.3	1.94	16.8	
Sulphide	mg/l	nc	-	65	0	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chloride	mg/l	250	UK DWS	65	0	18.3	0.97	4.6	16	0.61	15	37	4.1	6.8	23	<4	41	
Fluoride	mg/l	1.5	UK DWS	65	2	<0.5	0.15	0.068	0.32	0.26	0.13	0.12	0.18	0.17	0.28	0.11	0.068	
Ammoniacal Nitrogen as N	mg/l	0.39	UK DWS	63	20	24.2	0.2	0.18	1.4	0.072	0.065	0.039	0.13	1	0.16	0.12	0.024	
Nitrite as NO ₂	mg/l	0.5	UK DWS	25	1	<0.05												
Nitrate as NO ₃	mg/l	50	UK DWS	25	0	<0.3												
Bromide	mg/l	nc	-	25	0	0.1												
Thiocyanate	mg/l	0.05	UK DWS	25	1	<0.05												
Alkalinity, Total as CaCO ₃	mg/l	nc	-	25	0	180												
Total Suspended Solids	mg/l	nc	-	25	0	-												
Total Oxidised Nitrogen as N	mg/l	nc	-	25	0	<0.1												
Hardness, Total s CaCO ₃	mg/l	nc	-	25	0	161												
Antimony	mg/l	0.005	UK DWS	65	14	0.00428	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017
Arsenic	mg/l	0.01	UK DWS	65	2	0.00368	0.0075	0.0018	0.0042	0.005	0.0027	0.0013	0.0073	<0.0011	0.0087	0.0074	<0.0011	
Barium	mg/l	0.7	WHO	65	0	0.0689	0.017	0.036	0.031	0.012	0.043	0.085	0.037	0.025	0.013	0.016	0.05	
Beryllium	mg/l	0.004	USEPA	65	0	<0.0001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.0006
Boron	mg/l	1	UK DWS	65	2	0.229	<0.01	<0.01	0.017	0.037	<0.01	<0.01	0.033	0.018	0.041	<0.01	0.016	
Cadmium	mg/l	0.005	UK DWS	65	0	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
Hexavalent Chromium	mg/l	0.0034	FEQS	65	1	<0.03	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chromium III	mg/l	0.0047	FEQS	65	0	<0.03	<0.001	<0.001	0.0033	0.0016	0.009	0.024	0.0031	0.0068	0.0028	<0.001	0.0091	
Chromium	mg/l	0.05	UK DWS	65	0	0.00736	<0.001	<0.001	0.0033	0.0016	0.009	0.024	0.0031	0.0068	0.0028	0.0007	0.0091	
Copper	mg/l	2	UK DWS	65	0	0.00121	0.0047	0.0043	0.011	0.019	0.0031	0.0007	0.0058	0.0042	0.0092	0.0046	0.003	
Iron	mg/l	0.2	UK DWS	65	7	<0.019	0.32	1.4	2.9	0.31	0.17	0.044	1.2	4.5	0.91	0.66	0.02	
Lead	mg/l	0.01	UK DWS	65	1	<0.0002	0.0016	0.0041	0.0022	0.0056	0.0058	0.0025	0.0026	0.003	0.002	0.0052	0.0051	
Manganese	mg/l	0.05	UK DWS	65	8	0.0859	0.029	0.056	0.027	0.0099	0.0029	0.00066	0.024	0.018	0.016	0.014	0.0019	
Mercury	mg/l	0.001	UK DWS	65	0	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.0005	<0.00001	<0.00001	<0.0005	
Molybdenum	mg/l	0.07	WHO	65	4	0.0333	0.0004	<0.0004	<0.0004	0.0009	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	0.0008	0.0024	
Nickel	mg/l	0.02	UK DWS	65	5	0.0191	<0.0003	0.001	0.0016	0.0049	0.0004	<0.0003	0.0024	0.0035	0.0017	0.0006	<0.0003	
Selenium	mg/l	0.01	UK DWS	65	0	<0.001	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	
Vanadium	mg/l	0.02	FEQS	65	2	<0.001	0.0092	0.0084	0.0074	0.11	0.0069	<0.0017	0.011	<0.0017	0.013	0.014	0.013	
Zinc	mg/l	5	USEPA	65	0	0.00473	0.0019	0.005	0.0042	0.0039	<0.0004	0.0026	0.0034	0.0064	0.0085	0.0017	<0.0004	
Calcium	mg/l	nc	-	65	0	54.4	6.6	5.5	14	27	23	94	28	3.7	7	4.9	52	
Magnesium	mg/l	nc	-	65	0	5.99	0.32	1.6	0.74	0.041	0.29	0.14	0.34	0.6	0.31	0.54	0.08	
Sodium	mg/l	50	WHO	25	1	17.8												
Potassium	mg/l	nc	-	25	0	34												
Catechol	ug/l	7.7	FEQS	40	0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Resorcinol	ug/l	7.7	FEQS	40	0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylphenol & Dimethylphenol	ug/l	100	FEQS	40	0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Cresols	ug/l	100	FEQS	40	0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

G3 Soil Leachate Screening Assessment

Sample Identity	TP263	Concept_BH01	Concept_BH2	Concept_BH2	Concept_BH05	Concept_BH07	Concept_BH07	Concept_BH08	Concept_BH08	Concept_BH9	Concept_BH10	Concept_WS03
Depth	3.50-3.50	0.7	0.2	0.5	0.4	0.5	1	0.1	0.5	0.3	0.1-0.3	0.5
Date	09/07/2018	09/10/2014	11/08/2014	11/08/2014	02/10/2014	22/08/2014	22/08/2014	12/08/2014	12/08/2014	06/08/2017	21/08/2014	15/09/2014
Waste Type	Commercial	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG

Compound	Units	Screening Criteria	Standard	Number of samples	Number of Exceedences												
Naphthols	ug/l	7.7	FEQS	40	0		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Phenol	ug/l	7.7	FEQS	40	0		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trimethylphenol	ug/l	100	FEQS	40	0		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total Phenols	ug/l	7.7	FEQS	40	0		<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5
Benzene	ug/l	1	UK DWS	2	0					<1	<1						
Toluene	ug/l	74	FEQS	2	0					<1	<1						
Ethylbenzene	ug/l	20	FEQS	2	0					<1	<1						
p & m-xylene	ug/l	30	FEQS	2	0					<1	<1						
o-xylene	ug/l	30	FEQS	2	0					<1	<1						
MTBE	ug/l	15	WHO	2	0					<10	<10						
TPH-CWG - Aliphatic >C5-C6	ug/l	15000	WHO	2	0					<10	<10						
TPH-CWG - Aliphatic >C6-C8	ug/l	15000	WHO	2	0					<10	<10						
TPH-CWG - Aliphatic >C8-C10	ug/l	300	WHO	2	0					<10	<10						
TPH-CWG - Aliphatic >C10-C12	ug/l	300	WHO	2	0					<10	<10						
TPH-CWG - Aliphatic >C12-C16	ug/l	300	WHO	2	0					<10	<10						
TPH-CWG - Aliphatic >C16-C21	ug/l	300	WHO	2	0					<10	<10						
TPH-CWG - Aliphatic >C21-C35	ug/l	300	WHO	2	0					<10	<10						
TPH-CWG - Aliphatic (C5-C35)	ug/l	nc	-	2	0					<10	<10						
TPH-CWG - Aromatic >C5-C7	ug/l	10	WHO	2	0					<10	<10						
TPH-CWG - Aromatic >C7-C8	ug/l	700	WHO	2	0					<10	<10						
TPH-CWG - Aromatic >C8-C10	ug/l	300	WHO	2	0					<10	<10						
TPH-CWG - Aromatic >C10-C12	ug/l	90	WHO	2	0					<10	<10						
TPH-CWG - Aromatic >C12-C16	ug/l	90	WHO	2	0					<10	<10						
TPH-CWG - Aromatic >C16-C21	ug/l	90	WHO	2	0					<10	<10						
TPH-CWG - Aromatic >C21-C35	ug/l	90	WHO	2	0					<10	<10						
TPH-CWG - Aromatic (C5-C35)	ug/l	nc	-	2	0					<10	<10						

G3 Soil Leachate Screening Assessment

						Sample Identity	Concept_WS 04	Concept_WS 05	Concept_WS 05	Concept_WS 06	Concept_TP0 3	Concept_TP0 5	Concept_TP0 6	Concept_TP0 6	Concept_TP0 6	Concept_TP0 7	Concept_TP0 8	Concept_TP0 8
						Depth	0.8	1	1.5	0.5	0.7	0.5	0.6	1	1.75	0.5	0.6	1.6
						Date	07/11/2014	07/11/2014	07/11/2014	15/09/2014	30/10/2014	30/10/2014	02/10/2014	02/10/2014	02/10/2014	30/10/2014	09/10/2014	09/10/2014
						Waste Type	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG
Compound	Units	Screening Criteria	Standard	Number of samples	Number of Exceedences													
Temperature	°C	nc	-	25	0													
pH	pH Units	6 to 9	FEQS	25	0													
Conductivity @ 20 deg.C	µS/cm	2500	UK DWS	25	0													
pH	pH Units	6 to 9	FEQS	65	0	7.7	7.9	8	7.9	7.7	7.9	8.2	8	8	7.8	7.8	7.6	
Cyanide, Total	mg/l	0.05	UK DWS	65	0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cyanide, Complex	mg/l	0.05	UK DWS	59	0	<0.01	<0.01	<0.01		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cyanide, Free	mg/l	0.05	UK DWS	65	0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sulphate	mg/l	250	UK DWS	65	1	4.7	2.32	1.37	4.28	7.21	7.82	5.77	<0.1	22.6	20.9	2.5	64.6	
Sulphide	mg/l	nc	-	65	0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chloride	mg/l	250	UK DWS	65	0	2	3.5	2	13	3.1	2.4	0.26	<0.15	<0.15	2.9	0.2	0.35	
Fluoride	mg/l	1.5	UK DWS	65	2	0.29	0.28	0.17	0.25	0.37	0.23	0.27	1.1	0.91	0.4	0.21	0.46	
Ammoniacal Nitrogen as N	mg/l	0.39	UK DWS	63	20	0.61	0.69	0.58	<0.015	3	0.67	<0.015	0.02	<0.015	0.84	0.16	0.87	
Nitrite as NO ₂	mg/l	0.5	UK DWS	25	1													
Nitrate as NO ₃	mg/l	50	UK DWS	25	0													
Bromide	mg/l	nc	-	25	0													
Thiocyanate	mg/l	0.05	UK DWS	25	1													
Alkalinity, Total as CaCO ₃	mg/l	nc	-	25	0													
Total Suspended Solids	mg/l	nc	-	25	0													
Total Oxidised Nitrogen as N	mg/l	nc	-	25	0													
Hardness, Total s CaCO ₃	mg/l	nc	-	25	0													
Antimony	mg/l	0.005	UK DWS	65	14	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	0.004
Arsenic	mg/l	0.01	UK DWS	65	2	<0.0011	0.0024	<0.0011	<0.0011	0.0014	0.0031	0.0064	0.0026	<0.0011	0.0032	0.0041	0.0049	
Barium	mg/l	0.7	WHO	65	0	0.013	0.031	0.033	0.022	0.049	0.027	0.027	0.022	0.025	0.05	0.036	0.075	
Beryllium	mg/l	0.004	USEPA	65	0	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Boron	mg/l	1	UK DWS	65	2	<0.01	0.014	0.012	0.02	0.014	<0.01	<0.01	0.043	0.039	0.016	<0.01	0.066	
Cadmium	mg/l	0.005	UK DWS	65	0	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
Hexavalent Chromium	mg/l	0.0034	FEQS	65	1	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chromium III	mg/l	0.0047	FEQS	65	0	0.0017	0.0043	0.0043	0.0046	0.0042	0.0041	0.0024	0.0044	0.0039	0.0054	0.0017	0.0016	
Chromium	mg/l	0.05	UK DWS	65	0	0.0017	0.0043	0.0043	0.0046	0.0042	0.0041	0.0024	0.0044	0.0039	0.0054	0.0017	0.0016	
Copper	mg/l	2	UK DWS	65	0	<0.0007	0.0008	<0.0007	0.0024	0.001	0.0016	0.0031	0.0024	0.0024	0.003	0.0088	0.011	
Iron	mg/l	0.2	UK DWS	65	7	0.78	1.5	1.4	1.4	2	1.9	0.72	2	1.5	2.7	0.94	0.79	
Lead	mg/l	0.01	UK DWS	65	1	0.0012	0.0014	0.0029	0.0058	0.0035	0.006	0.0066	0.0032	0.0029	0.0049	0.0063	0.0053	
Manganese	mg/l	0.05	UK DWS	65	8	0.0056	0.011	0.01	0.005	0.02	0.023	0.0097	0.011	0.0085	0.044	0.018	0.083	
Mercury	mg/l	0.001	UK DWS	65	0	<0.00001	<0.00001	<0.00001	<0.0005	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Molybdenum	mg/l	0.07	WHO	65	4	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	0.0016	0.0058	<0.0004	<0.0004	0.0052	
Nickel	mg/l	0.02	UK DWS	65	5	0.0008	0.0054	0.0048	0.0019	0.0027	0.0026	0.0022	0.0028	0.0018	0.0032	0.0006	0.0017	
Selenium	mg/l	0.01	UK DWS	65	0	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Vanadium	mg/l	0.02	FEQS	65	2	<0.0017	0.0044	0.0037	0.0078	0.0034	0.0079	0.023	0.0072	0.0066	0.008	0.011	0.0024	
Zinc	mg/l	5	USEPA	65	0	0.003	0.015	0.0067	0.0037	0.0041	0.018	0.008	0.0075	0.0062	0.014	0.0094	0.006	
Calcium	mg/l	nc	-	65	0	4.8	15	13	5.5	17	14	15	23	21	20	8.7	25	
Magnesium	mg/l	nc	-	65	0	0.25	0.34	0.32	0.73	0.52	0.69	0.57	4.5	1.8	0.75	0.76	6	
Sodium	mg/l	50	WHO	25	1													
Potassium	mg/l	nc	-	25	0													
Catechol	ug/l	7.7	FEQS	40	0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Resorcinol	ug/l	7.7	FEQS	40	0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylphenol & Dimethylphenol	ug/l	100	FEQS	40	0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Cresols	ug/l	100	FEQS	40	0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

Appendix G

G3 Soil Leachate Screening Assessment

Sample Identity	Concept_WS 04	Concept_WS 05	Concept_WS 05	Concept_WS 06	Concept_TP0 3	Concept_TP0 5	Concept_TP0 6	Concept_TP0 6	Concept_TP0 6	Concept_TP0 7	Concept_TP0 8	Concept_TP0 8
Depth	0.8	1	1.5	0.5	0.7	0.5	0.6	1	1.75	0.5	0.6	1.6
Date	07/11/2014	07/11/2014	07/11/2014	15/09/2014	30/10/2014	30/10/2014	02/10/2014	02/10/2014	02/10/2014	30/10/2014	09/10/2014	09/10/2014
Waste Type	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG

Compound	Units	Screening Criteria	Standard	Number of samples	Number of Exceedences	Concept_WS 04	Concept_WS 05	Concept_WS 05	Concept_WS 06	Concept_TP0 3	Concept_TP0 5	Concept_TP0 6	Concept_TP0 6	Concept_TP0 6	Concept_TP0 7	Concept_TP0 8	Concept_TP0 8
Naphthols	ug/l	7.7	FEQS	40	0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Phenol	ug/l	7.7	FEQS	40	0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trimethylphenol	ug/l	100	FEQS	40	0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total Phenols	ug/l	7.7	FEQS	40	0	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5
Benzene	ug/l	1	UK DWS	2	0												
Toluene	ug/l	74	FEQS	2	0												
Ethylbenzene	ug/l	20	FEQS	2	0												
p & m-xylene	ug/l	30	FEQS	2	0												
o-xylene	ug/l	30	FEQS	2	0												
MTBE	ug/l	15	WHO	2	0												
TPH-CWG - Aliphatic >C5-C6	ug/l	15000	WHO	2	0												
TPH-CWG - Aliphatic >C6-C8	ug/l	15000	WHO	2	0												
TPH-CWG - Aliphatic >C8-C10	ug/l	300	WHO	2	0												
TPH-CWG - Aliphatic >C10-C12	ug/l	300	WHO	2	0												
TPH-CWG - Aliphatic >C12-C16	ug/l	300	WHO	2	0												
TPH-CWG - Aliphatic >C16-C21	ug/l	300	WHO	2	0												
TPH-CWG - Aliphatic >C21-C35	ug/l	300	WHO	2	0												
TPH-CWG - Aliphatic (C5-C35)	ug/l	nc	-	2	0												
TPH-CWG - Aromatic >C5-C7	ug/l	10	WHO	2	0												
TPH-CWG - Aromatic >C7-C8	ug/l	700	WHO	2	0												
TPH-CWG - Aromatic >C8-C10	ug/l	300	WHO	2	0												
TPH-CWG - Aromatic >C10-C12	ug/l	90	WHO	2	0												
TPH-CWG - Aromatic >C12-C16	ug/l	90	WHO	2	0												
TPH-CWG - Aromatic >C16-C21	ug/l	90	WHO	2	0												
TPH-CWG - Aromatic >C21-C35	ug/l	90	WHO	2	0												
TPH-CWG - Aromatic (C5-C35)	ug/l	nc	-	2	0												

G3 Soil Leachate Screening Assessment

						Sample Identity	Concept_TP0	Concept_TP1	Concept_TP1	Concept_TP1	Concept_TP1	Concept_TP1	Concept_TP1	Concept_TP1	Concept_TP1	Concept_TP1	Concept_TP1	Concept_TP1
						Depth	0.5	0.5	0.5	0.4	0.5	1	0.5	0.4	0.5	0.5	1.5	1
						Date	07/11/2014	07/11/2014	07/11/2014	17/09/2014	28/08/2014	28/08/2014	27/08/2014	11/08/2014	12/08/2014	15/09/2014	15/09/2014	15/09/2014
						Waste Type	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG
Compound	Units	Screening Criteria	Standard	Number of samples	Number of Exceedences													
Temperature	°C	nc	-	25	0													
pH	pH Units	6 to 9	FEQS	25	0													
Conductivity @ 20 deg.C	µS/cm	2500	UK DWS	25	0													
pH	pH Units	6 to 9	FEQS	65	0	10.1	9.6	8.8	7.4	7.5	7.4	10.8	11	10.9	7.4	8.5	8.8	
Cyanide, Total	mg/l	0.05	UK DWS	65	0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Cyanide, Complex	mg/l	0.05	UK DWS	59	0	<0.01	<0.01	<0.01		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Cyanide, Free	mg/l	0.05	UK DWS	65	0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Sulphate	mg/l	250	UK DWS	65	1	12.4	17.6	4.02	117	3.2	3.29	37.2	36	14.2	476	10.9	24.9	
Sulphide	mg/l	nc	-	65	0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Chloride	mg/l	250	UK DWS	65	0	1.5	1.3	2.8	<4	<4	<4	34	9.7	13	8.1	<4.0	15	
Fluoride	mg/l	1.5	UK DWS	65	2	0.32	0.29	0.5	0.35	0.14	0.21	0.12	0.222	0.098	0.13	0.098	0.18	
Ammoniacal Nitrogen as N	mg/l	0.39	UK DWS	63	20	0.62	0.53	0.62	0.021	0.31	0.14	0.22	0.2	0.16	0.075	0.13	0.11	
Nitrite as NO ₂	mg/l	0.5	UK DWS	25	1													
Nitrate as NO ₃	mg/l	50	UK DWS	25	0													
Bromide	mg/l	nc	-	25	0													
Thiocyanate	mg/l	0.05	UK DWS	25	1													
Alkalinity, Total as CaCO ₃	mg/l	nc	-	25	0													
Total Suspended Solids	mg/l	nc	-	25	0													
Total Oxidised Nitrogen as N	mg/l	nc	-	25	0													
Hardness, Total s CaCO ₃	mg/l	nc	-	25	0													
Antimony	mg/l	0.005	UK DWS	65	14	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	
Arsenic	mg/l	0.01	UK DWS	65	2	<0.0011	0.0021	0.0049	0.0066	0.0061	0.0012	0.0015	0.0052	0.0015	0.0019	0.0028	0.0059	
Barium	mg/l	0.7	WHO	65	0	0.023	0.025	0.033	0.049	0.023	0.019	0.058	0.056	0.064	0.088	0.037	0.035	
Beryllium	mg/l	0.004	USEPA	65	0	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
Boron	mg/l	1	UK DWS	65	2	0.012	0.047	<0.01	0.057	0.035	0.029	0.032	0.048	0.011	0.019	0.023	0.044	
Cadmium	mg/l	0.005	UK DWS	65	0	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	
Hexavalent Chromium	mg/l	0.0034	FEQS	65	1	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Chromium III	mg/l	0.0047	FEQS	65	0	0.011	0.0052	0.0058	0.0018	0.001	0.0032	0.013	0.0059	0.01	<0.001	0.0066	0.0054	
Chromium	mg/l	0.05	UK DWS	65	0	0.011	0.0052	0.0058	0.0018	0.001	0.0032	0.013	0.0059	0.01	0.0005	0.0066	0.0054	
Copper	mg/l	2	UK DWS	65	0	0.0043	<0.0007	0.0023	0.0017	0.008	0.0009	0.0038	0.013	0.0025	0.002	0.0047	0.01	
Iron	mg/l	0.2	UK DWS	65	7	0.064	0.25	2.4	0.17	0.89	1.7	0.095	0.69	1.2	0.064	0.28	2.3	
Lead	mg/l	0.01	UK DWS	65	1	0.002	0.0016	0.0079	0.0048	0.0036	<0.001	0.0041	0.006	0.0034	0.0033	0.013	0.017	
Manganese	mg/l	0.05	UK DWS	65	8	0.0011	0.004	0.026	0.0041	0.013	0.0064	0.0016	0.017	0.0092	0.0018	0.033	0.024	
Mercury	mg/l	0.001	UK DWS	65	0	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	
Molybdenum	mg/l	0.07	WHO	65	4	<0.0004	<0.0004	<0.004	0.0048	0.0015	<0.0004	<0.0004	0.7	<0.0004	0.0015	<0.0004	<0.0004	
Nickel	mg/l	0.02	UK DWS	65	5	0.0004	0.0006	0.0031	<0.0003	0.0014	0.0012	0.0005	0.0022	0.0014	<0.0003	0.0027	0.0026	
Selenium	mg/l	0.01	UK DWS	65	0	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	
Vanadium	mg/l	0.02	FEQS	65	2	0.0072	0.0057	0.01	0.011	0.023	0.004	<0.0021	0.012	0.012	0.01	0.016	0.01	
Zinc	mg/l	5	USEPA	65	0	0.0027	0.0036	0.015	<0.0004	0.0026	0.0039	0.0007	0.0089	0.0055	0.0041	0.023	0.0074	
Calcium	mg/l	nc	-	65	0	9.5	17	15	48	6.2	3.9	32	11	8.2	190	11	12	
Magnesium	mg/l	nc	-	65	0	0.056	0.047	0.78	0.84	0.77	0.45	0.2	0.33	0.43	1.4	0.82	0.7	
Sodium	mg/l	50	WHO	25	1													
Potassium	mg/l	nc	-	25	0													
Catechol	ug/l	7.7	FEQS	40	0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Resorcinol	ug/l	7.7	FEQS	40	0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Ethylphenol & Dimethylphenol	ug/l	100	FEQS	40	0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Cresols	ug/l	100	FEQS	40	0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	

G3 Soil Leachate Screening Assessment

						Sample Identity	Concept_TP0	Concept_TP1	Concept_TP1	Concept_TP1	Concept_TP1	Concept_TP1	Concept_TP1	Concept_TP1	Concept_TP1	Concept_TP1	Concept_TP1	Concept_TP1
						Depth	0.5	0.5	0.5	0.4	0.5	1	0.5	0.4	0.5	0.5	1.5	1
						Date	07/11/2014	07/11/2014	07/11/2014	17/09/2014	28/08/2014	28/08/2014	27/08/2014	11/08/2014	12/08/2014	15/09/2014	15/09/2014	15/09/2014
						Waste Type	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG
Compound	Units	Screening Criteria	Standard	Number of samples	Number of Exceedences													
Naphthols	ug/l	7.7	FEQS	40	0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Phenol	ug/l	7.7	FEQS	40	0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trimethylphenol	ug/l	100	FEQS	40	0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total Phenols	ug/l	7.7	FEQS	40	0	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5
Benzene	ug/l	1	UK DWS	2	0													
Toluene	ug/l	74	FEQS	2	0													
Ethylbenzene	ug/l	20	FEQS	2	0													
p & m-xylene	ug/l	30	FEQS	2	0													
o-xylene	ug/l	30	FEQS	2	0													
MTBE	ug/l	15	WHO	2	0													
TPH-CWG - Aliphatic >C5-C6	ug/l	15000	WHO	2	0													
TPH-CWG - Aliphatic >C6-C8	ug/l	15000	WHO	2	0													
TPH-CWG - Aliphatic >C8-C10	ug/l	300	WHO	2	0													
TPH-CWG - Aliphatic >C10-C12	ug/l	300	WHO	2	0													
TPH-CWG - Aliphatic >C12-C16	ug/l	300	WHO	2	0													
TPH-CWG - Aliphatic >C16-C21	ug/l	300	WHO	2	0													
TPH-CWG - Aliphatic >C21-C35	ug/l	300	WHO	2	0													
TPH-CWG - Aliphatic (C5-C35)	ug/l	nc	-	2	0													
TPH-CWG - Aromatic >C5-C7	ug/l	10	WHO	2	0													
TPH-CWG - Aromatic >C7-C8	ug/l	700	WHO	2	0													
TPH-CWG - Aromatic >C8-C10	ug/l	300	WHO	2	0													
TPH-CWG - Aromatic >C10-C12	ug/l	90	WHO	2	0													
TPH-CWG - Aromatic >C12-C16	ug/l	90	WHO	2	0													
TPH-CWG - Aromatic >C16-C21	ug/l	90	WHO	2	0													
TPH-CWG - Aromatic >C21-C35	ug/l	90	WHO	2	0													
TPH-CWG - Aromatic (C5-C35)	ug/l	nc	-	2	0													

G3 Soil Leachate Screening Assessment

Sample Identity	Concept_TP2 2	Concept_TP2 5	Concept_BH0 1	Concept_BH0 6	Concept_TP0 1	Concept_TP1 9
Depth	0.5	0.5	1.2-1.5	0.8	0.5	2
Date	04/09/2014	03/09/2014	09/10/2014	02/10/2014	09/10/2014	15/09/2014
Waste Type	MG	MG	CwF	CwF	CwF	CwF

Compound	Units	Screening Criteria	Standard	Number of samples	Number of Exceedences	Concept_TP2 2	Concept_TP2 5	Concept_BH0 1	Concept_BH0 6	Concept_TP0 1	Concept_TP1 9
Temperature	°C	nc	-	25	0						
pH	pH Units	6 to 9	FEQS	25	0						
Conductivity @ 20 deg.C	µS/cm	2500	UK DWS	25	0						
pH	pH Units	6 to 9	FEQS	65	0	8.2	8.4	8.1	8.3	7.8	8.2
Cyanide, Total	mg/l	0.05	UK DWS	65	0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cyanide, Complex	mg/l	0.05	UK DWS	59	0	<0.01	<0.01	<0.01	<0.01	<0.01	
Cyanide, Free	mg/l	0.05	UK DWS	65	0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sulphate	mg/l	250	UK DWS	65	1	1.28	2.27	3.75	20	14.5	5.48
Sulphide	mg/l	nc	-	65	0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chloride	mg/l	250	UK DWS	65	0	<4	<4	1.1	0.7	2.8	6.3
Fluoride	mg/l	1.5	UK DWS	65	2	0.19	0.18	0.079	0.49	0.45	0.19
Ammoniacal Nitrogen as N	mg/l	0.39	UK DWS	63	20			0.13	<0.015	2.6	0.64
Nitrite as NO ₂	mg/l	0.5	UK DWS	25	1						
Nitrate as NO ₃	mg/l	50	UK DWS	25	0						
Bromide	mg/l	nc	-	25	0						
Thiocyanate	mg/l	0.05	UK DWS	25	1						
Alkalinity, Total as CaCO ₃	mg/l	nc	-	25	0						
Total Suspended Solids	mg/l	nc	-	25	0						
Total Oxidised Nitrogen as N	mg/l	nc	-	25	0						
Hardness, Total s CaCO ₃	mg/l	nc	-	25	0						
Antimony	mg/l	0.005	UK DWS	65	14	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017
Arsenic	mg/l	0.01	UK DWS	65	2	0.0015	0.0023	<0.0011	<0.0011	0.0073	0.0046
Barium	mg/l	0.7	WHO	65	0	0.019	0.068	0.0036	0.016	0.04	0.029
Beryllium	mg/l	0.004	USEPA	65	0	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Boron	mg/l	1	UK DWS	65	2	0.011	<0.01	<0.01	0.01	0.027	0.02
Cadmium	mg/l	0.005	UK DWS	65	0	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
Hexavalent Chromium	mg/l	0.0034	FEQS	65	1	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chromium III	mg/l	0.0047	FEQS	65	0	0.0017	0.0023	<0.001	0.0018	0.0019	0.0073
Chromium	mg/l	0.05	UK DWS	65	0	0.0017	0.0023	<0.001	0.0018	0.0019	0.0073
Copper	mg/l	2	UK DWS	65	0	0.0017	0.0063	0.0096	0.0014	0.012	0.0022
Iron	mg/l	0.2	UK DWS	65	7	1.1	1.5	0.41	0.85	0.99	3.1
Lead	mg/l	0.01	UK DWS	65	1	0.0013	0.0087	0.002	0.0029	0.0037	0.0085
Manganese	mg/l	0.05	UK DWS	65	8	0.0031	0.098	0.0019	0.016	0.031	0.025
Mercury	mg/l	0.001	UK DWS	65	0	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Molybdenum	mg/l	0.07	WHO	65	4	<0.0004	<0.0004	<0.0004	0.0006	<0.0004	<0.0004
Nickel	mg/l	0.02	UK DWS	65	5	0.0007	0.003	0.0009	0.01	0.0027	0.0023
Selenium	mg/l	0.01	UK DWS	65	0	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Vanadium	mg/l	0.02	FEQS	65	2	<0.0017	0.0031	<0.0017	<0.0017	0.013	0.012
Zinc	mg/l	5	USEPA	65	0	0.0033	0.0087	0.0021	0.0031	0.0076	0.0088
Calcium	mg/l	nc	-	65	0	8.5	22	0.4	17	16	5.9
Magnesium	mg/l	nc	-	65	0	0.68	0.94	<0.005	0.74	0.17	0.61
Sodium	mg/l	50	WHO	25	1						
Potassium	mg/l	nc	-	25	0						
Catechol	ug/l	7.7	FEQS	40	0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Resorcinol	ug/l	7.7	FEQS	40	0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylphenol & Dimethylphenol	ug/l	100	FEQS	40	0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Cresols	ug/l	100	FEQS	40	0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

Appendix G

G3 Soil Leachate Screening Assessment

Sample Identity	Concept_TP2 2	Concept_TP2 5	Concept_BH0 1	Concept_BH0 6	Concept_TP0 1	Concept_TP1 9
Depth	0.5	0.5	1.2-1.5	0.8	0.5	2
Date	04/09/2014	03/09/2014	09/10/2014	02/10/2014	09/10/2014	15/09/2014
Waste Type	MG	MG	CwF	CwF	CwF	CwF

Compound	Units	Screening Criteria	Standard	Number of samples	Number of Exceedences						
Naphthols	ug/l	7.7	FEQS	40	0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Phenol	ug/l	7.7	FEQS	40	0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trimethylphenol	ug/l	100	FEQS	40	0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total Phenols	ug/l	7.7	FEQS	40	0	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5
Benzene	ug/l	1	UK DWS	2	0						
Toluene	ug/l	74	FEQS	2	0						
Ethylbenzene	ug/l	20	FEQS	2	0						
p & m-xylene	ug/l	30	FEQS	2	0						
o-xylene	ug/l	30	FEQS	2	0						
MTBE	ug/l	15	WHO	2	0						
TPH-CWG - Aliphatic >C5-C6	ug/l	15000	WHO	2	0						
TPH-CWG - Aliphatic >C6-C8	ug/l	15000	WHO	2	0						
TPH-CWG - Aliphatic >C8-C10	ug/l	300	WHO	2	0						
TPH-CWG - Aliphatic >C10-C12	ug/l	300	WHO	2	0						
TPH-CWG - Aliphatic >C12-C16	ug/l	300	WHO	2	0						
TPH-CWG - Aliphatic >C16-C21	ug/l	300	WHO	2	0						
TPH-CWG - Aliphatic >C21-C35	ug/l	300	WHO	2	0						
TPH-CWG - Aliphatic (C5-C35)	ug/l	nc	-	2	0						
TPH-CWG - Aromatic >C5-C7	ug/l	10	WHO	2	0						
TPH-CWG - Aromatic >C7-C8	ug/l	700	WHO	2	0						
TPH-CWG - Aromatic >C8-C10	ug/l	300	WHO	2	0						
TPH-CWG - Aromatic >C10-C12	ug/l	90	WHO	2	0						
TPH-CWG - Aromatic >C12-C16	ug/l	90	WHO	2	0						
TPH-CWG - Aromatic >C16-C21	ug/l	90	WHO	2	0						
TPH-CWG - Aromatic >C21-C35	ug/l	90	WHO	2	0						
TPH-CWG - Aromatic (C5-C35)	ug/l	nc	-	2	0						

Appendix G

G4 Landfill Leachate Screening

Assessment Scenario

Water Abstraction

				Summary																	
Lab Sample ID	Screening Value	Units	Screening Standard	Number of Exceedances	948969	1076312	1111110	1165124	946300	983108	998638	1023132	1075119	1111112	1165125						
Client Sample No					BH06	BH06	BH06	BH06	BH12A	BH12A	BH12A	BH12A	BH12A	BH12A	BH12A	BH12A	BH12A	BH12A	LW201	LW201	
Client Sample ID					None Supplied	None Supplied	None Supplied		None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Depth to Top					None Supplied	None Supplied	None Supplied		None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	14.23	14.27
Depth to Bottom					None Supplied				12.06-13.05	None Supplied									9.44-11.11	15.93	15.9
Date Sampled					24/04/2018	25/10/2018	06/12/2018		26/02/2019	19/04/2018	15/06/2018	10/07/2018	10/08/2018	24/10/2018	06/12/2018	26/02/2019	10/08/2018	10/09/2018			
Sample Type		None Supplied	None Supplied						None Supplied	0840	None Supplied	None Supplied	None Supplied								
Inorganics																					
Organics																					
General inorganics																					
pH	N/A	pH units	-		6.8	6.9	6.8	7.1	6.9	7.1	6.8	6.9	6.9	5.2	7.1	7.24	7.29				
Total Cyanide	50	ug/l	UK DWS	0	< 10	< 10	< 10	< 10	14	16	< 10	14	< 10	< 10	< 10	< 50	< 50				
Complex Cyanides	50	ug/l	UK DWS	0	< 10	< 10	< 10	< 10	14	16	< 10	14	< 10	< 10	< 10	< 50	< 50				
Free Cyanide	50	ug/l	UK DWS	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50				
Thiocyanate as SCN	50	ug/l	UK DWS	6	< 200	< 200	420	< 200	< 200	< 200	< 200	420	450	< 200	< 200	106	80				
Sulphate as SO4	250000	ug/l	UK DWS	1	14200	19600	76000	66600	76600	19500	48200	6000	9350	10300	10300	< 2000	< 2000				
Sulphide	250000	ug/l	UK DWS	0	< 5.0	13	< 5.0	< 5.0	< 5.0	39	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10				
Chloride	250	mg/l	UK DWS	7	740	200	95	1200	74	140	66	150	210	270	230	299	322				
Fluoride	1500	ug/l	UK DWS	0	170	330	210	210	250	320	150	250	290	270	270	< 500	< 500				
Ammoniacal Nitrogen as N	390	ug/l	UK DWS	20	19000	10000	1800	14000	51000	50000	22	37000	38000	49000	44000	167000	168000				
Nitrate as N	11.3	mg/l	UK DWS	0	0.06	0.87	0.14	0.76	0.14	0.06	6.97	0.25	1	0.38	0.24						
Nitrate as NO3	50	mg/l	UK DWS	0	0.27	3.84	0.6	3.39	0.64	0.26	30.9	1.13	4.43	1.69	1.08	< 0.3	< 0.3				
Nitrite as N	160	ug/l	UK DWS	0	3.3	55	9.8	< 1.0	3.2	58	< 1.0	21	6.3	< 1.0	16						
Nitrite as NO2	500	ug/l	UK DWS	0	11	180	32	< 5.0	11	190	< 5.0	68	21	< 5.0	54	< 50	< 50				
Alkalinity	N/A	mg/l	-	0	580	550	780	810	1700	210	650	1200	1100	1000	1100	3320	2400				
Chemical Oxygen Demand (COD)	N/A	mg/l	-	0	1900	810	63	320	330	290	11	460	480	360	580	1080	684				
Biological Oxygen Demand (BOD)	N/A	mg/l	-	0	1.3		29	29	11	260	< 1.0	160	56	85	43	477	117				
Total Oxidised N (Nitrate/-ite)	11.3	mg/l	UK DWS	0	< 0.3	0.9	< 0.3	0.8	< 0.3	< 0.3	7	< 0.3	1	0.4	< 0.3	< 0.1	< 0.1				
Total Suspended Solids	N/A	mg/l	-	0	13000	3500	890	22000	1000	7700	140	2500	6100	1600	1900	2140	1020				
Hardness - Total	N/A	mg/l	-	0	590	516	489	908	672	435	527	615	512	455	666	2150	4430				
Bromide	N/A	mg/l	-	0	0.56	0.3	0.16	0.52	1.1	2.2	0.33	2.7	4.7	3.7	3.7	3.1	3.68				
Bromate	0.01	mg/l	UK DWS	0	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.005	< 0.005				
Phenols																					
Catechol	7.7	ug/l	FEQS	0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5						
Resorcinol	7.7	ug/l	FEQS	0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5						
Ethylphenol & Dimethylphenol	100	ug/l	FEQS	0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5						
Cresols	100	ug/l	FEQS	3	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	220	170				
Naphthols	7.7	ug/l	FEQS	0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5						
Isopropylphenol	7.7	ug/l	FEQS	0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 6	< 6				
Phenol	7.7	ug/l	FEQS	3	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	70	40				
Trimethylphenol	100	ug/l	FEQS	0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5						
Speciated PAHs																					
Naphthalene	2	ug/l	FEQS	3	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.0902	7.08				
Acenaphthylene	2	ug/l	FEQS	1	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.005	0.0585				
Acenaphthene	2000	ug/l	USEPA	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.0363	0.931				
Fluorene	2	ug/l	FEQS	2	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.0321	0.763				
Phenanthrene	2	ug/l	FEQS	5	< 0.01	< 0.01	< 0.01	0.37	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.0096	2.84				
Anthracene	0.1	ug/l	FEQS	8	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.005	0.693				
Fluoranthene	0.0063	ug/l	FEQS	10	< 0.01	< 0.01	< 0.01	0.87	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.005	4.38				
Pyrene	2	ug/l	FEQS	7	< 0.01	< 0.01	< 0.01	0.72	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.00573	4.74				
Benzo(a)anthracene	2	ug/l	FEQS	5	< 0.01	< 0.01	< 0.01	0.32	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.005	2.34				
Chrysene	2	ug/l	FEQS	4	< 0.01	< 0.01	< 0.01	0.41	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.005	2.25				
Benzo(b)fluoranthene	0.1	ug/l	UK DWS	9	< 0.01	< 0.01	< 0.01	0.49	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.005	5.69				
Benzo(k)fluoranthene	0.1	ug/l	UK DWS	8	< 0.01	< 0.01	< 0.01	0.19	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.005	2.32				
Benzo(a)pyrene	0.01	ug/l	UK DWS	10	< 0.01	< 0.01	< 0.01	0.32	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.002	4.23				
Indeno(1,2,3-cd)pyrene	0.1	ug/l	UK DWS	9	< 0.001	< 0.001	< 0.001	0.16	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.005	2.57				
Dibenzo(a,h)anthracene	2	ug/l	FEQS	3	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.005	0.582				
Benzo(g,h,i)perylene	0.1	ug/l	UK DWS	9	< 0.001	< 0.001	< 0.001	0.2	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.005	2.84				
Heavy metals and metalloids																					
Antimony	5	ug/l	UK DWS	6	1.3	2.5	0.8	< 0.4	0.9	0.7	< 0.4	0.7	< 0.4	0.7	1	7.4	7.6				
Arsenic	10	ug/l	UK DWS	8	13.9	5.31	1.33	2.66	2.98	7.3	0.42	4.11	0.18	3.87	4.71	12.9	13.7				
Barium	700	ug/l	WHO	11	2600	580	300	920	1700	1300	180	1200	24	850	1200	769	782				

Appendix G

G4 Landfill Leachate Screening

Assessment Scenario

Water Abstraction

					Summary																
Lab Sample ID	Screening Value	Units	Screening Standard	Number of Exceedances	948969	1076312	1111110	1165124	946300	983108	998638	1023132	1075119	1111112	1165125						
Client Sample No					BH06	BH06	BH06	BH06	BH12A	BH12A	BH12A	BH12A	BH12A	BH12A	BH12A	BH12A	BH12A	BH12A	LW201	LW201	
Client Sample ID					None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth to Top					None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth to Bottom					None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled	24/04/2018	25/10/2018	06/12/2018	26/02/2019	19/04/2018	15/06/2018	10/07/2018	10/08/2018	24/10/2018	06/12/2018	26/02/2019	10/08/2018	10/09/2018								
Sample Type		None Supplied	None Supplied			None Supplied	0840	None Supplied	None Supplied	None Supplied											
Beryllium	4	ug/l	USEPA	0	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1				
Boron	1000	ug/l	UK DWS	14	78	110	110	89	2400	2300	250	2000	1700	1500	2200	1680	1610				
Cadmium >200mg/l CaCO3	5	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02	< 0.02	0.13	0.04	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.08	< 0.08				
Calcium	N/A	mg/l	-	0	210	190	190	340	190	120	210	180	160	130	190	227	215				
Chromium VI	3.4	ug/l	FEQS	1	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 30	< 30				
Chromium III	4.7	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	2.2	1.5	1.3	1.4	< 1.0	< 1.0	1.4	< 30	< 30				
Chromium Total	50	ug/l	UK DWS	0	0.5	0.3	0.3	0.2	2.2	1.5	1.3	1.4	< 0.2	1	1.4	24.6	25.8				
Copper (bioavailable), DOC <1mg/l	2000	ug/l	UK DWS	0	< 0.5	< 0.5	1.1	1.7	1.8	1.1	1.6	2	2.2	2.1	< 0.5	< 0.3	< 0.3				
Iron	0.2	mg/l	UK DWS	18	2.5	1.9	0.27	7.2	0.85	10	0.007	8.5	1.5	10	1.2	37	38.1				
Lead	10	ug/l	UK DWS	0	< 0.2	0.2	0.7	0.3	5.8	1.9	< 0.2	0.5	< 0.2	0.8	< 0.2	< 0.2	0.489				
Magnesium	N/A	mg/l	-	0	14	7.6	6.5	14	47	36	2.9	41	30	30	44	64.2	62.4				
Manganese (bioavailable)	50	ug/l	UK DWS	20	2100	1800	1300	500	570	1600	6.4	1600	1300	1300	1100	1260	894				
Mercury	1	ug/l	UK DWS	0	0.19	< 0.05	< 0.05	< 0.05	< 0.05	0.07	0.27	< 0.05	< 0.05	< 0.05	< 0.05	< 0.01	< 0.01				
Molybdenum	70	ug/l	WHO	0	20	6.8	0.69	< 0.05	2.8	5	< 0.05	1.5	< 0.05	1.7	0.62	4.75	3.8				
Nickel >200 mg/l CaCO3	20	ug/l	UK DWS	8	12	13	5.5	1.2	10	8.5	1.8	9.5	13	7.7	8.8	54.7	44.9				
Potassium	N/A	mg/l	-	0	22	19	15	27	39	29	1.3	22	18	20	22	106	123				
Selenium	10	ug/l	UK DWS	3	2.3	0.7	1.3	2.6	3	3.7	1.1	11	< 0.6	14	14	< 1	< 1				
Sodium	50	mg/l	WHO	22	650	180	75	590	200	240	37	230	240	200	220	441	484				
Vanadium	20	ug/l	FEQS	2	< 0.2	0.4	0.3	0.3	1.3	0.7	0.4	1	< 0.2	0.5	0.9	8.73	9.36				
Zinc >250 mg/l CaCO3	5000	ug/l	USEPA	0	2.1	0.8	2.3	< 0.5	7	3.3	2.5	2.7	7.5	2.2	1.6	7.87	21.7				
Monoaromatics																					
Benzene	1	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0		< 1.0	< 1.0							
Toluene	74	ug/l	FEQS	0	< 1.0	53.3	< 1.0		< 1.0	< 1.0	< 1.0		< 1.0	< 1.0							
Ethylbenzene	20	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0		< 1.0	< 1.0							
Xylenes	30	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0		< 1.0	< 1.0		6.67	23.4				
MTBE	15	ug/l	WHO	0	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0		< 1.0	< 1.0							
Petroleum hydrocarbons																					
TPH	N/A	ug/l	-	0																	
TPH >C5-C6 Aliphatics	15000	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	11	15				
TPH >C6-C8 Aliphatics	15000	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	29	36				
TPH >C8-C10 Aliphatics	300	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	40	38				
TPH >C10-C12 Aliphatics	300	ug/l	WHO	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	45	64				
TPH >C12-C16 Aliphatics	300	ug/l	WHO	1	< 10	< 10	< 10	< 10	66	< 10	< 10	< 10	< 10	68	< 10	33	25				
TPH >C16-C21 Aliphatics	300	ug/l	WHO	3	< 10	< 10	< 10	< 10	98	< 10	< 10	< 10	< 10	200	< 10	212	290				
TPH >C21-C35 Aliphatics	300	ug/l	WHO	9	< 10	< 10	< 10	< 10	320	< 10	< 10	< 10	< 10	260	< 10	1380	2080				
TPH-CWG - Aliphatic >C16 - C35	300	ug/l	WHO	2	< 10	< 10	< 10	< 10	420	< 10	< 10	< 10	< 10	460	< 10						
TPH-CWG - Aliphatic >C35 - C44	300	ug/l	WHO	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10						
C5-C35 Aliphatics	N/A	ug/l	-	0	< 10	< 10	< 10	< 10	490	< 10	< 10	< 10	< 10	530	< 10						
TPH-CWG - Aliphatic (C5 - C44)	N/A	ug/l	-	0	< 10	< 10	< 10	< 10	490	< 10	< 10	< 10	< 10	530	< 10						
TPH >C5-C6 Aromatics	10	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	< 10				
TPH >C7-C8 Aromatics	700	ug/l	WHO	0	< 1.0	53	< 1.0	41	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	< 10				
TPH >C8-C9 Aromatics	300	ug/l	WHO	0																	
TPH >C9-C10 Aromatics	300	ug/l	WHO	0																	
TPH >C8-C10 Aromatics	300	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	41	58				
TPH >C10-C12 Aromatics	90	ug/l	WHO	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	30	43				
TPH >C12-C16 Aromatics	90	ug/l	WHO	1	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	69	33				
TPH >C16-C21 Aromatics	90	ug/l	WHO	6	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	102	128				
TPH >C21-C35 Aromatics	90	ug/l	WHO	9	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	443	787				
TPH >C35-C44 Aromatics	90	ug/l	WHO	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10						
C5-C35 Aromatics	N/A	ug/l	-	0	< 10	53	< 10	41	< 10	< 10	< 10	< 10	< 10	< 10	< 10						
C5-C35 Aromatics	N/A	ug/l	-	0	< 10	53	< 10	41	490	< 10	< 10	< 10	< 10	< 10	< 10						
VOCs																					
Chloromethane	20	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1				
Chloroethane	3	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1				
Bromomethane	100	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1				

Appendix G

G4 Landfill Leachate Screening

Assessment Scenario

Water Abstraction

					Summary																
Lab Sample ID	Screening Value	Units	Screening Standard	Number of Exceedances	948969	1076312	1111110	1165124	946300	983108	998638	1023132	1075119	1111112	1165125						
Client Sample No					BH06	BH06	BH06	BH06	BH12A	BH12A	BH12A	BH12A	BH12A	BH12A	BH12A	BH12A	BH12A	BH12A	LW201	LW201	
Client Sample ID					None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth to Top					None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth to Bottom					None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled	24/04/2018	25/10/2018	06/12/2018	26/02/2019	19/04/2018	15/06/2018	10/07/2018	10/08/2018	24/10/2018	06/12/2018	26/02/2019	10/08/2018	10/09/2018								
Sample Type		None Supplied	None Supplied			None Supplied	0840	None Supplied	None Supplied	None Supplied											
Vinyl Chloride	0.5	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1				
Trichlorofluoromethane	2.5	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1				
1,1-Dichloroethene	7	ug/l	USEPA	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1				
1,1,2-Trichloro-1,2,2-trifluoroethane	400	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1				
Cis-1,2 Dichloroethene	50	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1				
MTBE	15	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1				
1,1-Dichloroethane	3	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1				
2,2-Dichloropropane	40	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1				
Trichloromethane	2.5	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1				
1,1,1-Trichloroethane	100	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1				
1,2-Dichloroethane	3	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1				
1,1-Dichloropropane	20	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1				
Trans-1,2 Dichloroethene	50	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1				
Benzene	1	ug/l	UK DWS	3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	6.26	4.73				
Tetrachloromethane	3	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1				
1,2-Dichloropropane	40	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1				
Trichloroethene	10	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1				
Dibromomethane	100	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1				
Bromodichloromethane	100	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1				
Cis-1,3 Dichloropropene	20	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1				
Trans-1,3 Dichloropropene	20	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1				
Toluene	74	ug/l	FEQS	0	< 1.0	53.3	< 1.0	41.1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.58	3.13				
1,1,2-Trichloroethane	400	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1				
1,3-Dichloropropane	40	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1				
Dibromochloromethane	100	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1				
Tetrachloroethene	10	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1				
1,2-Dibromoethane	0.4	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1				
Chlorobenzene	0.4	ug/l	FEQS	3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.65	1.42				
1,1,1,2-Tetrachloroethane	400	ug/l	USEPA	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1				
Ethylbenzene	20	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2.76	13				
m,p-Xylenes	30	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	5.27	18.6				
Styrene	20	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1				
Tribromomethane	10	ug/l	Default	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1				
o-Xylene	30	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.4	4.8				
1,1,2,2-Tetrachloroethane	400	ug/l	USEPA	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1				
Iso-propylbenzene	1	ug/l	UK DWS	3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	3.77	4.88				
Bromobenzene	1	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1				
Propylbenzene	1	ug/l	UK DWS	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	1.63				
2-Chlorotoluene	700	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1				
4-Chlorotoluene	700	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1				
1,3,5 Trimethylbenzene	1	ug/l	UK DWS	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	2.17				
tert-Butylbenzene	1	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1				
1,2,4 Trimethylbenzene	1	ug/l	UK DWS	2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.47	7.97				
sec-Butylbenzene	1	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1				
1,3 Dichlorobenzene	3000	ug/l	USEPA	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1				
p-Isopropyltoluene	74	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1				
1,2-Dichlorobenzene	1000	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1				
1,4 Dichlorobenzene	300	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.04	1.59				
n-Butylbenzene	1	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1				
1,2-Dibromo-3-chloropropane	1	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1				
1,2,4-Trichlorobenzene	70	ug/l	USEPA	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1				
Hexachlorobutadiene	0.6	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1				
2,6 Chloronitrotoluene	700	ug/l	WHO	0	< 1		< 1		< 1	< 1	< 1										
4,2 Chloronitrotoluene	700	ug/l	WHO	0	< 1		< 1		< 1	< 1	< 1					</					

Appendix G

G4 Landfill Leachate Screening

Assessment Scenario

Water Abstraction

					Summary																
Lab Sample ID	Screening Value	Units	Screening Standard	Number of Exceedances	948969	1076312	1111110	1165124	946300	983108	998638	1023132	1075119	1111112	1165125						
Client Sample No					BH06	BH06	BH06	BH06	BH12A	BH12A	BH12A	BH12A	BH12A	BH12A	BH12A	BH12A	BH12A	BH12A	LW201	LW201	
Client Sample ID					None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth to Top					None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth to Bottom					None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled	24/04/2018	25/10/2018	06/12/2018	26/02/2019	19/04/2018	15/06/2018	10/07/2018	10/08/2018	24/10/2018	06/12/2018	26/02/2019	10/08/2018	10/09/2018								
Sample Type		None Supplied	None Supplied			None Supplied			None Supplied	0840	None Supplied	None Supplied	None Supplied								
2,4 Chloronitrotoluene	700	ug/l	WHO	0	< 1		< 1		< 1	< 1	< 1										
2,5 Chloronitrotoluene	700	ug/l	WHO	0	< 1		< 1		< 1	< 1	< 1										
1,2,3-Trichlorobenzene	0.4	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1				
1,2,3-Trichloropropane	40	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1				
1,3,5-Trichlorobenzene	0.4	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1				
Bromochloromethane	100	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1				
Dichloromethane	20	ug/l	FEQS	0	< 100	< 100	< 100	< 3.0	< 100	< 100	< 100	< 100	< 100	< 100	< 3.0	< 3	< 3				
Carbon disulphide	10	ug/l	Default	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1				
Dichlorodifluoromethane	20	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1				
SVOCs																					
Phenol	7.7	ug/l	FEQS	5	0.560	< 0.05	1.300	< 0.05	< 0.05	68.000	< 0.05	31.000	9.400	220.000	5.900	< 10	20.7				
2-Chlorophenol	50	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 10	< 8				
Bis(2-chloroethyl)ether	1000	ug/l	USEPA	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 10	< 8				
Bis(2-chloroisopropyl)ether	1000	ug/l	USEPA	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 10	< 8				
2-Methylphenol	100	ug/l	FEQS	0	3.800	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 10	< 8				
Hexachloroethane	40	ug/l	USEPA	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 10	< 8				
Nitrobenzene	1	ug/l	UK DWS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 10	< 8				
4-Methylphenol	100	ug/l	FEQS	3	160.000	< 0.05	22.000	1.400	< 0.05	260.000	< 0.05	75.000	23.000	3.200	94.000	53.9	126				
Isophorone	7000	ug/l	USEPA	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 10	< 8				
2-Nitrophenol	7.7	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 10	< 8				
2,4-Dimethylphenol	100	ug/l	FEQS	0	1.100	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 10	< 8				
Bis(2-chloroethoxy)methane	10	ug/l	Default	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 10	< 8				
2,4-Dichlorophenol	4.2	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 10	< 8				
4-Chloro-3-methylphenol	40	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 10	< 8				
2,4,6-trichlorophenol	200	ug/l	WHO	0	< 0.05	< 0.05	0.69	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 10	< 8				
2,4,5-Trichlorophenol	200	ug/l	WHO	0	< 0.05	< 0.05	0.630	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 10	< 8				
2-Methylnaphthalene	2	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 10	< 8				
2-Chloronaphthalene	2	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 10	< 8				
Dimethylphthalate	800	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	1.6	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 10	< 8				
2,6-Dinitrotoluene	100	ug/l	USEPA	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 10	< 8				
2,4-Dinitrotoluene	100	ug/l	USEPA	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 10	< 8				
Dibenzofuran	2	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 10	< 8				
Diethyl phthalate	200	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 10	< 8				
Bromophenyl phenyl ether	10	ug/l	Default	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 10	< 8				
Hexachlorobenzene	1	ug/l	USEPA	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 10	< 8				
Phenanthrene	2	ug/l	FEQS	5	< 0.01	< 0.01	< 0.01	0.37	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.0096	2.84				
Carbazole	2	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 10	< 8				
Di-n-butyl phthalate	8	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	0.8	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 10	< 8				
Butyl benzyl phthalate	7.5	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	4	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 10	< 8				
PCBs by GC-ECD - WHO 12																					
PCB Congener 77	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020		< 0.020	< 0.020	< 0.020		< 0.020	< 0.020		< 0.015	< 0.015				
PCB Congener 81	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020		< 0.020	< 0.020	< 0.020		< 0.020	< 0.020		< 0.015	< 0.015				
PCB Congener 105	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020		< 0.020	< 0.020	< 0.020		< 0.020	< 0.020		< 0.015	< 0.015				
PCB Congener 114	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020		< 0.020	< 0.020	< 0.020		< 0.020	< 0.020		< 0.015	< 0.015				
PCB Congener 118	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020		< 0.020	< 0.020	< 0.020		< 0.020	< 0.020		< 0.015	< 0.015				
PCB Congener 123	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020		< 0.020	< 0.020	< 0.020		< 0.020	< 0.020		< 0.015	< 0.015				
PCB Congener 126	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020		< 0.020	< 0.020	< 0.020		< 0.020	< 0.020		< 0.015	< 0.015				
PCB Congener 156	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020		< 0.020	< 0.020	< 0.020		< 0.020	< 0.020		< 0.015	< 0.015				
PCB Congener 157	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020		< 0.020	< 0.020	< 0.020		< 0.020	< 0.020		< 0.015	< 0.015				
PCB Congener 167	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020		< 0.020	< 0.020	< 0.020		< 0.020	< 0.020		< 0.015	< 0.015				
PCB Congener 169	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020		< 0.020	< 0.020	< 0.020		< 0.020	< 0.020		< 0.015	< 0.015				
PCB Congener 189	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020		< 0.020	< 0.020	< 0.020		< 0.020	< 0.020		< 0.015	< 0.015				
PCBs	25	ug/l	FEQS	0	< 0.300	< 0.300	< 0.300		< 0.300	< 0.300	< 0.300		< 0.300	< 0.300							
Environmental Forensics																					
PFOS	0.3	ug/l	DWS	0	< 0.05		< 0.05		< 0.05	< 0.05	0.26					0.101	0.126				

Appendix G G4 Landfill Leachate Screening

Assessment Scenario

Water Abstraction

Lab Sample ID	Screening Value	Units	Screening Standard	Summary													
				Number of Exceedances	948969	1076312	1111110	1165124	946300	983108	998638	1023132	1075119	1111112	1165125	LW201	LW201
Client Sample No					BH06	BH06	BH06	BH06	BH12A	BH12A	BH12A	BH12A	BH12A	BH12A	BH12A		
Client Sample ID					None Supplied	None Supplied	None Supplied		None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied		
Depth to Top					None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth to Bottom					None Supplied	None Supplied		12.06-13.05	None Supplied							9.44-11.11	14.23
Date Sampled					24/04/2018	25/10/2018	06/12/2018	26/02/2019	19/04/2018	15/06/2018	10/07/2018	10/08/2018	24/10/2018	06/12/2018	26/02/2019	10/08/2018	10/09/2018
Sample Type						None Supplied	None Supplied			None Supplied	0840	None Supplied	None Supplied	None Supplied			
PFOS	0.3	ug/l	DWS	0													
PFOA	0.3	ug/l	DWS	0	< 0.05		< 0.05		< 0.05	< 0.05	0.16						
Metaldehyde	0.1	ug/l	UK DWS	0	< 0.1		< 0.1		< 0.1	0.1	< 0.1						
Chloronitrotoluenes (sum)	10	ug/l	FEQS	0	< 0.1		< 0.1		< 0.1	< 0.1	< 0.1						
Chlorbufam	0.1	ug/l	UK DWS	0	< 0.10		< 0.10		< 0.10	< 0.10							
Chloroxuron	0.1	ug/l	UK DWS	0	< 0.10		< 0.10		< 0.10	< 0.10							< 0.1
Chlorpropham	0.1	ug/l	UK DWS	0	< 0.10		< 0.10		< 0.10	< 0.10							< 0.5
Ethiofencarb	0.1	ug/l	UK DWS	0	< 0.10		< 0.10		< 0.10	< 0.10							< 0.2
Phenmedipham	0.1	ug/l	UK DWS	0	< 0.10		< 0.10		< 0.10	< 0.10							
Propham	0.1	ug/l	UK DWS	0	< 0.10		< 0.10		< 0.10	< 0.10							< 0.5
Dimefuron	0.1	ug/l	UK DWS	0	< 0.10		< 0.10		< 0.10	< 0.10							< 0.2
Metoxuron	0.1	ug/l	UK DWS	0	< 0.10		< 0.10		< 0.10	< 0.10							< 0.1
Pencycuron	0.1	ug/l	UK DWS	0	< 0.10		< 0.10		< 0.10	< 0.10							< 0.2
o,p-Methoxychlor	0.1	ug/l	UK DWS	0	< 0.01		< 0.01		< 0.01	< 0.01	< 0.01						
Demeton-s-methyl	0.1	ug/l	UK DWS	0	< 0.10		< 0.10		< 0.10	< 0.10							< 0.1
Diclofop	0.1	ug/l	UK DWS	0	< 0.02		< 0.02		< 0.02	< 0.02							< 0.02
Fenvalerate	0.1	ug/l	UK DWS	0	< 0.10		< 0.10		< 0.10	< 0.10	< 0.10						
Cyhalothrin	0.1	ug/l	UK DWS	0	< 0.10		< 0.10		< 0.10	< 0.10	< 0.10						
Ametryn	0.1	ug/l	UK DWS	0	< 0.10		< 0.10		< 0.10	< 0.10							
Atrazine-methoxy	0.1	ug/l	UK DWS	0	< 0.10		< 0.10		< 0.10	< 0.10							
Bromacil	0.1	ug/l	UK DWS	0	< 0.02		< 0.02		< 0.02	0.05							< 0.1
Flamprop	0.1	ug/l	UK DWS	0	< 0.02		< 0.02		< 0.02	< 0.02							
Flamprop-isopropyl	0.1	ug/l	UK DWS	0	< 0.02		< 0.02		< 0.02	< 0.02							
Prometon	0.1	ug/l	UK DWS	0	< 0.10		< 0.10		< 0.10	< 0.10							
Simetryn	0.1	ug/l	UK DWS	0	< 0.10		< 0.10		< 0.10	< 0.10							
4-Nitrophenol	7.7	ug/l	FEQS	0	< 1	< 0.05	< 0.05	< 0.05	< 1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 10	< 8
Hexachlorocyclopentadiene	50	ug/l	USEPA	0	< 1		< 1		< 1	< 1	< 1						< 10
Perylene	2	ug/l	FEQS	0	< 1		< 1		< 1	< 1	< 1						
n-Nitroso-n-dipropylamine	0.1	ug/l	UK DWS	1	< 1		< 1		< 1	30	< 1						< 10
Carbamates																	
Pirimicarb	100	ng/l	UK DWS	0	< 20		< 20		< 20	< 20							< 10
Carbetamide	100	ng/l	UK DWS	0	< 20		< 20		< 20	< 20							< 10
Phthalates																	
Bis(2-ethylhexyl)phthalate	8	ug/l	WHO	3	3.1		10		4.3	< 1.0	< 1.0						< 20
Di-n-octyl phthalate	20	ug/l	FEQS	0	< 1.0		< 1.0		< 1.0	< 1.0	< 1.0						< 50
Total phthalates	N/A	mg/l	-	0													< 40
Glycols																	
Ethylene Glycol	0.01	mg/l	Default	0	< 10	< 10	< 10		< 10	< 10	< 10		< 10	< 10			
Diethylene Glycol	0.01	mg/l	Default	0	< 10	< 10	< 10		< 10	< 10	< 10		< 10	< 10			
1,2-Propanediol	0.01	mg/l	Default	0	< 10	< 10	< 10		< 10	< 10	< 10		< 10	< 10			
Rodenticides																	
Triazine Pesticides																	
Atrazine	0.1	ug/l	UK DWS	0	< 0.05		< 0.05		< 0.05	< 0.05							< 0.1
Simazine	0.1	ug/l	UK DWS	0	< 0.05		< 0.05		< 0.05	< 0.05							< 0.1
Prometryn	0.1	ug/l	UK DWS	0	< 0.05		< 0.05		< 0.05	< 0.05							< 0.01
Propazine	0.1	ug/l	UK DWS	0	< 0.05		< 0.05		< 0.05	< 0.05							< 0.01
Terbutylazine	0.1	ug/l	UK DWS	0	< 0.05		< 0.05		< 0.05	< 0.05							< 0.01
Terbutryn	0.1	ug/l	UK DWS	0	< 0.05		< 0.05		< 0.05	< 0.05							< 0.01
Acid herbicides esters																	
2,4-D Methyl Ester	0.1	ug/l	UK DWS	0	< 0.02		< 0.02		< 0.02	< 0.02							
2,4-D butyl ester	0.1	ug/l	UK DWS	0	< 0.10		< 0.10		< 0.10	< 0.10							
2,4-D ethyl ester	0.1	ug/l	UK DWS	0	< 0.10		< 0.10		< 0.10	< 0.10							
2,4-D isobutyl ester	0.1	ug/l	UK DWS	0	< 0.10		< 0.10		< 0.10	< 0.10							
2,4-D isopropyl ester	0.1	ug/l	UK DWS	0	< 0.10		< 0.10		< 0.10	< 0.10							
Acid Herbicides																	

Appendix G G4 Landfill Leachate Screening

Assessment Scenario

Water Abstraction

Lab Sample ID	Screening Value	Units	Screening Standard	Summary		948969	1076312	1111110	1165124	946300	983108	998638	1023132	1075119	1111112	1165125			
				Number of Exceedances															
Client Sample No						BH06	BH06	BH06	BH06	BH12A	BH12A	BH12A	BH12A	BH12A	BH12A	BH12A	LW201	LW201	
Client Sample ID						None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Depth to Top						None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	14.23	14.27	
Depth to Bottom						None Supplied	None Supplied	None Supplied	12.06-13.05	None Supplied	None Supplied	25.81-39.46	None Supplied	None Supplied	None Supplied	None Supplied	9.44-11.11	15.93	15.9
Date Sampled						24/04/2018	25/10/2018	06/12/2018	26/02/2019	19/04/2018	15/06/2018	10/07/2018	10/08/2018	24/10/2018	06/12/2018	26/02/2019	10/08/2018	10/09/2018	
Sample Type							None Supplied	None Supplied		None Supplied	0840	None Supplied	None Supplied	None Supplied	None Supplied				
2,3,6-TBA	0.1	ug/l	UK DWS	0	< 0.02			< 0.02		< 0.02	< 0.02						< 5	< 5	
Benazolin	0.1	ug/l	UK DWS	0	< 0.02			< 0.02		< 0.02	< 0.02						< 0.05	< 0.05	
Bromoxynil	0.1	ug/l	UK DWS	0	< 0.02			< 0.02		< 0.02	< 0.02						< 0.01	< 0.01	
Clopyralid	0.1	ug/l	UK DWS	1	< 0.02			< 0.02		< 0.02	0.55						< 0.3	< 0.3	
Ioxynil	0.1	ug/l	UK DWS	0	< 0.02			< 0.02		< 0.02	< 0.02						< 0.01	< 0.01	
2,4,5-T	0.1	ug/l	UK DWS	0	< 0.02			< 0.02		< 0.02	< 0.02						< 0.01	< 0.01	
2,4,5-TP	0.1	ug/l	UK DWS	0	< 0.02			< 0.02		< 0.02	< 0.02						< 0.01	< 0.01	
2,4-D	0.1	ug/l	UK DWS	0	< 0.02			< 0.02		< 0.02	< 0.02						0.023	< 0.01	
2,4-DB	0.1	ug/l	UK DWS	0	< 0.02			< 0.02		< 0.02	< 0.02						< 0.02	< 0.02	
Dicamba	0.1	ug/l	UK DWS	0	< 0.02			< 0.02		< 0.02	< 0.02						< 0.03	< 0.03	
Dichlorprop	0.1	ug/l	UK DWS	0	< 0.02			< 0.02		< 0.02	< 0.02						0.091	< 0.01	
MCPA	0.1	ug/l	UK DWS	0	< 0.02			< 0.02		< 0.02	< 0.02						< 0.01	< 0.01	
MCPB	0.1	ug/l	UK DWS	0	< 0.02			< 0.02		< 0.02	< 0.02						< 0.02	< 0.02	
Mecoprop	0.1	ug/l	UK DWS	6	< 0.02			< 0.02		0.06	0.07						1.46	1.68	
Picloram	0.1	ug/l	UK DWS	0	< 0.02			< 0.02		< 0.02	< 0.02						< 0.2	< 0.2	
4-Chlorophenoxyacetic acid	0.1	ug/l	UK DWS	0	< 0.02			< 0.02		< 0.02	< 0.02								
Organochlorine Pesticides																			
Aldrin	0.03	ug/l	UK DWS	0	< 0.01			< 0.01		< 0.01	< 0.01	< 0.01					< 0.01	< 0.01	
alpha-HCH (alpha-BHC)	0.1	ug/l	UK DWS	0	< 0.01			< 0.01		< 0.01	< 0.01	< 0.01					< 0.01	< 0.01	
beta-HCH (beta-BHC)	0.1	ug/l	UK DWS	0	< 0.01			< 0.01		< 0.01	< 0.01	< 0.01					< 0.01	< 0.01	
delta-HCH (delta-BHC)	0.1	ug/l	UK DWS	0	< 0.01			< 0.01		< 0.01	< 0.01	< 0.01					< 0.01	< 0.01	
Dieldrin	0.03	ug/l	UK DWS	0	< 0.01			< 0.01		< 0.01	0.02	< 0.01					< 0.01	< 0.01	
Endosulfan	0.1	ug/l	UK DWS	0	< 0.01			< 0.01		< 0.01	< 0.01	< 0.01					< 0.01	< 0.01	
Endosulfan	0.1	ug/l	UK DWS	0	< 0.01			< 0.01		< 0.01	< 0.01	< 0.01					< 0.02	< 0.02	
Endosulfan Sulphate	0.1	ug/l	UK DWS	0	< 0.01			< 0.01		< 0.01	< 0.01	< 0.01					< 0.02	< 0.02	
Endrin	0.1	ug/l	UK DWS	0	< 0.01			< 0.01		< 0.01	< 0.01	< 0.01					< 0.01	< 0.01	
gamma-HCH (gamma-BHC)	0.1	ug/l	UK DWS	0	< 0.01			< 0.01		< 0.01	< 0.01	< 0.01					< 0.01	< 0.01	
Heptachlor	0.03	ug/l	UK DWS	0	< 0.01			< 0.01		< 0.01	< 0.01	< 0.01					< 0.01	< 0.01	
Heptachlor Epoxide	0.03	ug/l	UK DWS	0	< 0.01			< 0.01		< 0.01	< 0.01	< 0.01					< 0.01	< 0.01	
Isodrin	0.1	ug/l	UK DWS	0	< 0.01			< 0.01		< 0.01	< 0.01	< 0.01					< 0.01	< 0.01	
Methoxychlor	0.1	ug/l	UK DWS	0	< 0.01			< 0.01		< 0.01	< 0.01	< 0.01					< 0.01	< 0.01	
o,p-DDE	0.1	ug/l	UK DWS	0	< 0.01			< 0.01		< 0.01	< 0.01	< 0.01					< 0.01	< 0.01	
DDT	0.1	ug/l	UK DWS	0	< 0.01			< 0.01		< 0.01	< 0.01	< 0.01					< 0.01	< 0.01	
o,p-TDE (o,p-DDD)	0.1	ug/l	UK DWS	0	< 0.01			< 0.01		< 0.01	0.04	< 0.01					< 0.01	< 0.01	
p,p-DDE	0.1	ug/l	UK DWS	0	< 0.01			< 0.01		< 0.01	< 0.01	< 0.01					< 0.01	< 0.01	
DDT	0.1	ug/l	UK DWS	0	< 0.01			< 0.01		< 0.01	< 0.01	< 0.01					< 0.01	< 0.01	
p,p-TDE (o,p-DDD)	0.1	ug/l	UK DWS	0	< 0.01			< 0.01		< 0.01	0.1	< 0.01					< 0.01	< 0.01	
Trifluralin	0.1	ug/l	UK DWS	0	< 0.01			< 0.01		< 0.01	< 0.01	< 0.01					< 0.01	< 0.01	
Organonitrogen pesticides																			
Bentazone	0.1	ug/l	UK DWS	0	< 0.02			< 0.02		< 0.02	< 0.02						< 0.01	< 0.01	
Fluroxypyr	0.1	ug/l	UK DWS	0	< 0.02			< 0.02		< 0.02	< 0.02						< 0.02	< 0.02	
Triclopyr	0.1	ug/l	UK DWS	0	< 0.02			< 0.02		< 0.02	< 0.02						< 0.03	< 0.03	
Organophosphorous pesticides																			
Azinphos-ethyl	0.1	ug/l	UK DWS	0	< 0.01			< 0.01		< 0.01	< 0.01	< 0.01					< 0.2	< 0.02	
Azinphos-methyl	0.1	ug/l	UK DWS	1	< 0.01			< 0.01		< 0.01	< 0.01	< 0.01					< 0.2	0.517	
Chlorfenvinphos	0.1	ug/l	UK DWS	0	< 0.01			< 0.01		< 0.01	< 0.01	< 0.01					< 0.1	< 0.01	
Chlorfenvinphos I	0.1	ug/l	UK DWS	0	< 0.01			< 0.01		< 0.01	< 0.01	< 0.01							
Chlorfenvinphos II	0.1	ug/l	UK DWS	0	< 0.01			< 0.01		< 0.01	< 0.01	< 0.01							
Chlorpyrifos-methyl	0.1	ug/l	UK DWS	0	< 0.01			< 0.01		< 0.01	< 0.01	< 0.01							
Diazinon	0.1	ug/l	UK DWS	0	< 0.01			< 0.01		< 0.01	< 0.01	< 0.01					< 0.1	< 0.01	
Dichlorvos	0.1	ug/l	UK DWS	0	< 0.01			< 0.01		< 0.01	< 0.01	< 0.01					< 0.1	< 0.01	
Dimethoate	0.1	ug/l	UK DWS	0	< 0.01			< 0.01		< 0.01	< 0.01	< 0.01					< 0.1	< 0.01	
E-mevinphos	0.1	ug/l	UK DWS	0	< 0.01			< 0.01		< 0.01	< 0.01	< 0.01					< 0.1	< 0.01	
Z-Mevinphos	0.1	ug/l	UK DWS	0	< 0.01			< 0.01		< 0.01	< 0.01	< 0.01					< 0.1	< 0.01	
Ethion	0.1	ug/l	UK DWS	0	< 0.01			< 0.01		< 0.01	< 0.01	< 0.01					< 0.1	< 0.01	

Appendix G G4 Landfill Leachate Screening

Assessment Scenario

Water Abstraction

Lab Sample ID	Screening Value	Units	Screening Standard	Summary		948969	1076312	1111110	1165124	946300	983108	998638	1023132	1075119	1111112	1165125			
				Number of Exceedances															
Client Sample No						BH06	BH06	BH06	BH06	BH12A	BH12A	BH12A	BH12A	BH12A	BH12A	BH12A	LW201	LW201	
Client Sample ID						None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Depth to Top						None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	14.23	14.27	
Depth to Bottom						None Supplied			12.06-13.05	None Supplied						9.44-11.11	15.93	15.9	
Date Sampled						24/04/2018	25/10/2018	06/12/2018	26/02/2019	19/04/2018	15/06/2018	10/07/2018	10/08/2018	24/10/2018	06/12/2018	26/02/2019	10/08/2018	10/09/2018	
Sample Type							None Supplied	None Supplied		None Supplied	0840	None Supplied	None Supplied	None Supplied					
Fenitrothion	0.1	ug/l	UK DWS	0	< 0.01		< 0.01		< 0.01	< 0.01	< 0.01	< 0.01					< 0.1	< 0.01	
Fenthion	0.1	ug/l	UK DWS	0	< 0.01		< 0.01		< 0.01	< 0.01	< 0.01	< 0.01					< 0.1	< 0.01	
Malathion	0.1	ug/l	UK DWS	0	< 0.01		< 0.01		< 0.01	< 0.01	< 0.01	< 0.01					< 0.1	< 0.01	
Parathion-ethyl	0.1	ug/l	UK DWS	0	< 0.01		< 0.01		< 0.01	< 0.01	< 0.01	< 0.01					< 0.1	< 0.01	
Parathion-methyl	0.1	ug/l	UK DWS	0	< 0.01		< 0.01		< 0.01	< 0.01	< 0.01	< 0.01					< 0.1	< 0.01	
Phenylurea herbicides																			
Isoproturon	100	ng/l	UK DWS	0	< 10		< 10		< 10	< 10	< 10	< 10					< 10	< 100	
Chlortoluron	100	ng/l	UK DWS	0	< 10		< 10		< 10	< 10	< 10	< 10					< 10	< 100	
Diflufenzuron	100	ng/l	UK DWS	0	< 10		< 10		< 10	< 10	< 10	< 10					< 20	< 200	
Diuron	100	ng/l	UK DWS	0	< 10		< 10		< 10	< 10	< 10	< 10					< 10	< 100	
Linuron	100	ng/l	UK DWS	0	< 10		< 10		< 10	< 10	< 10	< 10					< 20	< 200	
Methabenzthiazuron	100	ng/l	UK DWS	0	< 10		< 10		< 10	< 10	< 10	< 10					< 10	< 100	
Monolinuron	100	ng/l	UK DWS	0	< 10		< 10		< 10	< 10	< 10	< 10					< 20	< 200	
Monuron	100	ng/l	UK DWS	4	< 10		< 10		< 10	< 10	< 10	< 10					225	278	
VFAs																			
Acetic acid	0.01	mg/l	Default	6	< 10		< 10		< 10	< 50.0	< 10	< 10					256	213	
Propanoic acid	0.01	mg/l	Default	2	< 10		< 10		< 10	< 20.0	< 10	< 10					90.7	73.4	
Butyric acid	0.01	mg/l	Default	1	< 10		< 10		< 10	19.000	< 10	< 10					< 10	< 10	
Isobutyric acid	0.01	mg/l	Default	1	< 10		< 10		< 10	< 10	< 10	< 10					10.1	< 10	
Pentanoic acid	0.01	mg/l	Default	0	< 10		< 10		< 10	< 10	< 10	< 10					< 10	< 10	
Isopentanoic acid	0.01	mg/l	Default	0	< 10		< 10		< 10	< 10	< 10	< 10					< 10	< 10	
Hexanoic acid	0.01	mg/l	Default	0	< 10		< 10		< 10	< 10	< 10	< 10					< 10	< 10	
Heptanoic acid	0.01	mg/l	Default	0	< 10		< 10		< 10	< 10	< 10	< 10					< 11	< 11	
Pyrethroids																			
Cyfluthrin	0.1	ug/l	UK DWS	0	< 0.1		< 0.1		< 0.1	< 0.1	< 0.1	< 0.1					< 0.05	< 0.05	
Cypermethrin	100	ng/l	UK DWS	0	< 10		< 10		< 10	< 10	< 10	< 10					< 50	< 50	
Deltramethrin	0.1	ug/l	UK DWS	0	< 0.1		< 0.1		< 0.1	< 0.1	< 0.1	< 0.1					< 0.05	< 0.05	
Permethrin	0.1	ug/l	UK DWS	0	< 0.01		< 0.01		< 0.01	< 0.01	< 0.01	< 0.01					< 0.01	< 0.01	
Permethrin	0.1	ug/l	UK DWS	0	< 0.01		< 0.01		< 0.01	< 0.01	< 0.01	< 0.01					< 0.01	< 0.01	
Organotins																			
Tributyltin compounds	0.2	ng/l	FEQS	0	< 10		< 10		< 10	< 10	< 10	< 10					< 10	< 6	
TPT (Triphenyl Tin)	0.2	ng/l	FEQS	0	< 10		< 10		< 10	< 10	< 10	< 10					< 10	< 6	
DBT (Dibutyl Tin)	0.2	ng/l	FEQS	0	< 10		< 10		< 10	< 10	< 10	< 10					< 50	< 30	
Chlorophenols																			
Pentachlorophenol	0.0004	mg/l	FEQS	0	< 0.05		< 0.05		< 0.05	< 0.05	< 0.05	< 0.05					< 0.01	< 0.008	
Others																			
Bromoform	0.1	mg/l	WHO	0													< 0.001	< 0.001	
Lambda-cyhalothrin	0.1	ug/l	UK DWS	0													< 0.05	< 0.05	
Methane	N/A	ug/l	-	0													9520	9490	

Appendix G

G4 Landfill Leachate Screening

Assessment Scenario

Water Abstraction

				Summary															
Lab Sample ID	Screening Value	Units	Screening Standard	Number of Exceedances	LW201	LW202	LW202	LW203	LW203	LW204	LW204	LW204	LW205	LW205	19500421				
Client Sample No																		LW205	
Client Sample ID																			
Depth to Top																			04/01/1900
Depth to Bottom																			5.92
Date Sampled																			06/03/2019
Sample Type															None Supplied				
Inorganics																			
Organics																			
General inorganics																			
pH	N/A	pH units	-		7.38	8.06		7.5	8.2	7.46	7.32	7.31	7.08	7.21	7.02				
Total Cyanide	50	ug/l	UK DWS	0	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50				
Complex Cyanides	50	ug/l	UK DWS	0	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50				
Free Cyanide	50	ug/l	UK DWS	0	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50				
Thiocyanate as SCN	50	ug/l	UK DWS	6	70	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50				
Sulphate as SO4	250000	ug/l	UK DWS	1	11200	148000			278000	74700	18600	11800		94700	97000				
Sulphide	250000	ug/l	UK DWS	0	< 10	88.4	181	< 10	< 50	47.4	< 10	< 10	< 10	< 10	< 10				
Chloride	250	mg/l	UK DWS	7	198	133			119	91	120	120		1230	369				
Fluoride	1500	ug/l	UK DWS	0	< 500	967	< 500	918	< 500	< 500	< 500	< 500	< 500	< 500	< 500				
Ammoniacal Nitrogen as N	390	ug/l	UK DWS	20	150000	26800	42500	20900	14200	72900	71600	72800		261	< 200				
Nitrate as N	11.3	mg/l	UK DWS	0															
Nitrate as NO3	50	mg/l	UK DWS	0	< 0.3	< 0.3			< 0.3	0.827	< 0.3	< 0.3		7.56	10.7				
Nitrite as N	160	ug/l	UK DWS	0															
Nitrite as NO2	500	ug/l	UK DWS	0	250	156	< 50	139	< 50	< 50	< 50	< 50		< 50	< 50				
Alkalinity	N/A	mg/l	-	0	1600	5220	1420	3240	3100	3050	1480	1420	910	1800	285				
Chemical Oxygen Demand (COD)	N/A	mg/l	-	0	437	7380	1100		1420	6400	520	1100	18100	640	151				
Biological Oxygen Demand (BOD)	N/A	mg/l	-	0	46.7	496	291			4570	57	77.7	53.9	4.24	< 1				
Total Oxidised N (Nitrate/-ite)	11.3	mg/l	UK DWS	0	< 0.1	< 0.1			< 0.1	0.199	< 0.1	< 0.1		1.72	2.43				
Total Suspended Solids	N/A	mg/l	-	0	270	17100		11600	10700	20000	2070	439	285000	10300	288				
Hardness - Total	N/A	mg/l	-	0	1100	20700	2600		1100	176	196	743	1370	5800	1500				
Bromide	N/A	mg/l	-	0	2.59	1.04	3.2		1.5	0.789	1.15	< 0.06		0.51	0.174				
Bromate	0.01	mg/l	UK DWS	0	< 0.005	< 0.005	< 0.005	< 0.03		< 0.005	< 0.005	< 0.005		< 0.005	< 0.005				
Phenols																			
Catechol	7.7	ug/l	FEQS	0															
Resorcinol	7.7	ug/l	FEQS	0															
Ethylphenol & Dimethylphenol	100	ug/l	FEQS	0															
Cresols	100	ug/l	FEQS	3	150	10	< 6		< 6	10	10	80		< 6	< 6				
Naphthols	7.7	ug/l	FEQS	0															
Isopropylphenol	7.7	ug/l	FEQS	0	< 6	< 6	< 6		< 6	< 6	< 6	< 6		< 6	< 6				
Phenol	7.7	ug/l	FEQS	3	10	< 2	< 2		< 2	< 2	< 2	< 2		< 2	< 2				
Trimethylphenol	100	ug/l	FEQS	0											< 3				
Speciated PAHs																			
Naphthalene	2	ug/l	FEQS	3	0.401	4.65				4.17	0.0517	0.272	0.101	0.0232	< 0.01				
Acenaphthylene	2	ug/l	FEQS	1	0.0509	1.7				2.68	0.055	0.191	0.0986	0.0364	< 0.005				
Acenaphthene	2000	ug/l	USEPA	0	0.294	60				8.21	0.151	0.625	0.273	0.0463	< 0.005				
Fluorene	2	ug/l	FEQS	2	0.252	50.2				9.88	0.146	0.561	0.177	0.0316	< 0.005				
Phenanthrene	2	ug/l	FEQS	5	0.722	290				86	0.901	4.55	3.25	0.639	0.0097				
Anthracene	0.1	ug/l	FEQS	8	0.197	73.1				22	0.285	1.21	0.893	0.183	0.0051				
Fluoranthene	0.0063	ug/l	FEQS	10	1.5	402				231	3.26	14.6	18.2	3.6	0.0458				
Pyrene	2	ug/l	FEQS	7	1.46	371				220	3.1	13.9	16.9	3.51	0.0482				
Benzo(a)anthracene	2	ug/l	FEQS	5	0.75	142				116	1.44	5.04	9.82	1.89	0.0232				
Chrysene	2	ug/l	FEQS	4	0.688	< 0.2				114	1.35	5.26	8.46	1.96	0.0189				
Benzo(b)fluoranthene	0.1	ug/l	UK DWS	9	0.883	295				203	2.76	9.09	22.2	5.1	0.0365				
Benzo(k)fluoranthene	0.1	ug/l	UK DWS	8	0.398	< 0.2				81.7	1.16	2.14	9.48	2.02	0.018				
Benzo(a)pyrene	0.01	ug/l	UK DWS	10	0.712	30.2				160	1.99	5.08	16.3	3.74	0.0231				
Indeno(1,2,3-cd)pyrene	0.1	ug/l	UK DWS	9	0.521	164				120	1.71	4.28	10.9	2.16	0.0158				
Dibenzo(a,h)anthracene	2	ug/l	FEQS	3	0.101	19.4				22	0.277	0.67	2.37	0.493	0.0052				
Benzo(g,h,i)perylene	0.1	ug/l	UK DWS	9	0.647	169				143	1.87	3.79	15.8	2.92	0.034				
Heavy metals and metalloids																			
Antimony	5	ug/l	UK DWS	6	5.11	15.3	1.3	2.56	1.76	8.28	< 1	< 1		4.21	6.97				
Arsenic	10	ug/l	UK DWS	8	9.47	36.7	10.5	10.8	17	14.7	7.13	9.54		1.27	0.94				
Barium	700	ug/l	WHO	11	780	83.4	227	88.5	28	557	536	703		228	68.6				

Appendix G

G4 Landfill Leachate Screening

Assessment Scenario

Water Abstraction

Lab Sample ID	Screening Value	Units	Screening Standard	Summary											
				Number of Exceedances	LW201	LW202	LW202	LW203	LW203	LW204	LW204	LW204	LW205	LW205	19500421
Client Sample No					LW201	LW202	LW202	LW203	LW203	LW204	LW204	LW204	LW205	LW205	LW205
Client Sample ID															
Depth to Top					14.76	9.91	10.51	11.48	11.7	11.22	11.25	11.29	4.98	4.46	04/01/1900
Depth to Bottom					15.84		10.99	12	12.03	12.34	11.28	12.42	5.82	5.94	5.92
Date Sampled					04/10/2018	08/08/2018	10/09/2018	10/08/2018	11/09/2018	08/08/2018	11/09/2018	08/10/2018	15/01/2019	06/02/2019	06/03/2019
Sample Type															None Supplied
Beryllium	4	ug/l	USEPA	0	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Boron	1000	ug/l	UK DWS	14	1600	950	1900	1180	664	1180	1160	1170		127	173
Cadmium >200mg/l CaCO3	5	ug/l	UK DWS	0	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08		1.37	0.442
Calcium	N/A	mg/l	-	0	198	79.4	200	55.1	16.1	192	221	231		283	118
Chromium VI	3.4	ug/l	FEQS	1	< 30	< 30	< 30	39.6	< 30	< 30	< 30	< 30	< 30	< 30	< 0.03
Chromium III	4.7	ug/l	FEQS	0	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30		< 30	< 0.03
Chromium Total	50	ug/l	UK DWS	0	19.7	2.47	6.67	3.95	2.87	1.43	1.26	1.21		< 1	< 1
Copper (bioavailable), DOC <1mg/l	2000	ug/l	UK DWS	0	< 0.3	< 0.3	< 0.3	< 0.3	0.971	< 0.3	< 0.3	< 0.3		< 0.3	5.81
Iron	0.2	mg/l	UK DWS	18	37.7	0.0948	2.37	0.329	0.192	0.212	21.9	13.5		0.0461	0.0213
Lead	10	ug/l	UK DWS	0	0.368	0.61	0.387	< 0.2	< 0.2	1.69	1.03	0.541		1.77	1.03
Magnesium	N/A	mg/l	-	0	53.1	4.28	47.4	23.3	17.8	22.7	25.6	27.8		5.58	2.9
Manganese (bioavailable)	50	ug/l	UK DWS	20	610	10	1740	410	49.8	1410	2070	1760		128	270
Mercury	1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01		< 0.01	< 0.01
Molybdenum	70	ug/l	WHO	0	< 3	56.8	< 3	7.52		20.3	< 3	7.66		4.1	7.35
Nickel >200 mg/l CaCO3	20	ug/l	UK DWS	8	28.4	23.5	18	40.4	23.9	22.3	14.7	29.1		18.3	10.6
Potassium	N/A	mg/l	-	0	108	42.1	57.1	23.3	17	40.9	38.1	41.5		23.1	15.2
Selenium	10	ug/l	UK DWS	3	< 1	7.56	2.04	1.65	1.44	< 1	< 1	< 1		1.53	1.8
Sodium	50	mg/l	WHO	22	414	157	351	1220	1280	72.9	95.2	82.7		417	209
Vanadium	20	ug/l	FEQS	2	8.02	97.9	11.4	31.5	17.3	1.76	< 1	1.03		< 1	< 1
Zinc >250 mg/l CaCO3	5000	ug/l	USEPA	0	6.53	54.6	6.85	20.6	1.73	3.37	9.67	4.26		446	231
Monoaromatics															
Benzene	1	ug/l	UK DWS	0											< 1
Toluene	74	ug/l	FEQS	0											< 1
Ethylbenzene	20	ug/l	FEQS	0											< 1
Xylenes	30	ug/l	FEQS	0	7.06	< 2				< 20	< 2	< 2	< 20	< 2	< 2
MTBE	15	ug/l	WHO	0											< 1
Petroleum hydrocarbons															
TPH	N/A	ug/l	-	0											
TPH >C5-C6 Aliphatics	15000	ug/l	WHO	0	14	< 10				< 10	< 10	< 10	< 10	< 10	< 10
TPH >C6-C8 Aliphatics	15000	ug/l	WHO	0	29	33				19	13	< 10	< 10	< 10	< 10
TPH >C8-C10 Aliphatics	300	ug/l	WHO	0	25	21				34	15	< 10	< 10	< 10	< 10
TPH >C10-C12 Aliphatics	300	ug/l	WHO	0	55	18				54	19	< 10	< 10	< 10	< 10
TPH >C12-C16 Aliphatics	300	ug/l	WHO	1	15	993				< 250	13	108	29	< 10	< 10
TPH >C16-C21 Aliphatics	300	ug/l	WHO	3	215	3080				2090	70	304	111	31	< 10
TPH >C21-C35 Aliphatics	300	ug/l	WHO	9	1300	20600				14800	446	2340	654	262	< 10
TPH-CWG - Aliphatic >C16 - C35	300	ug/l	WHO	2											
TPH-CWG - Aliphatic >C35 - C44	300	ug/l	WHO	0											
C5-C35 Aliphatics	N/A	ug/l	-	0											< 10
TPH-CWG - Aliphatic (C5 - C44)	N/A	ug/l	-	0											
TPH >C5-C6 Aromatics	10	ug/l	WHO	0	< 10	< 10				< 10	< 10	< 10	< 10	< 10	< 10
TPH >C7-C8 Aromatics	700	ug/l	WHO	0	< 10	< 10				< 10	< 10	< 10	< 10	< 10	< 10
TPH >C8-C9 Aromatics	300	ug/l	WHO	0											
TPH >C9-C10 Aromatics	300	ug/l	WHO	0											< 10
TPH >C8-C10 Aromatics	300	ug/l	WHO	0	26	53				27	11	< 10	< 10	< 10	< 10
TPH >C10-C12 Aromatics	90	ug/l	WHO	0	37	12				36	13	< 10	< 10	< 10	< 10
TPH >C12-C16 Aromatics	90	ug/l	WHO	1	26	1330				< 250	< 10	89	< 200	< 10	< 10
TPH >C16-C21 Aromatics	90	ug/l	WHO	6	78	4020				2260	52	262	2320	16	< 10
TPH >C21-C35 Aromatics	90	ug/l	WHO	9	468	12600				10700	214	1130	10300	102	< 10
TPH >C35-C44 Aromatics	90	ug/l	WHO	0											
C5-C35 Aromatics	N/A	ug/l	-	0											
C5-C35 Aromatics	N/A	ug/l	-	0											
VOCs															
Chloromethane	20	ug/l	FEQS	0	< 1	< 1				< 10	< 1	< 1	< 10	< 1	< 1
Chloroethane	3	ug/l	UK DWS	0	< 1	< 1				< 10	< 1	< 1	< 10	< 1	< 1
Bromomethane	100	ug/l	UK DWS	0	< 1	< 1				< 10	< 1	< 1	< 10	< 1	< 1

Appendix G

G4 Landfill Leachate Screening

Assessment Scenario

Water Abstraction

Lab Sample ID	Screening Value	Units	Screening Standard	Summary											
				Number of Exceedances	LW201	LW202	LW202	LW203	LW203	LW204	LW204	LW204	LW205	LW205	19500421
Client Sample No					LW201	LW202	LW202	LW203	LW203	LW204	LW204	LW204	LW205	LW205	LW205
Client Sample ID															
Depth to Top					14.76	9.91	10.51	11.48	11.7	11.22	11.25	11.29	4.98	4.46	04/01/1900
Depth to Bottom					15.84		10.99	12	12.03	12.34	11.28	12.42	5.82	5.94	5.92
Date Sampled					04/10/2018	08/08/2018	10/09/2018	10/08/2018	11/09/2018	08/08/2018	11/09/2018	08/10/2018	15/01/2019	06/02/2019	06/03/2019
Sample Type															None Supplied
Vinyl Chloride	0.5	ug/l	UK DWS	0	< 1	< 1				< 10	< 1	< 1	< 10	< 1	< 1
Trichlorofluoromethane	2.5	ug/l	FEQS	0	< 1	< 1				< 10	< 1	< 1	< 10	< 1	< 1
1,1-Dichloroethene	7	ug/l	USEPA	0	< 1	< 1				< 10	< 1	< 1	< 10	< 1	< 1
1,1,2-Trichloro-1,2,2-trifluoroethane	400	ug/l	FEQS	0											
Cis-1,2 Dichloroethene	50	ug/l	WHO	0	< 1	< 1				< 10	< 1	< 1	< 10	< 1	< 1
MTBE	15	ug/l	WHO	0	< 1	< 1				< 10	< 1	< 1	< 10	< 1	< 1
1,1 -Dichloroethane	3	ug/l	UK DWS	0	< 1	< 1				< 10	< 1	< 1	< 10	< 1	< 1
2,2-Dichloropropane	40	ug/l	WHO	0	< 1	< 1				< 10	< 1	< 1	< 10	< 1	< 1
Trichloromethane	2.5	ug/l	FEQS	0	< 1	< 1				< 10	< 1	< 1	< 10	< 1	< 1
1,1,1-Trichloroethane	100	ug/l	FEQS	0	< 1	< 1				< 10	< 1	< 1	< 10	< 1	< 1
1,2-Dichloroethane	3	ug/l	UK DWS	0	< 1	< 1				< 10	< 1	< 1	< 10	< 1	< 1
1,1-Dichloropropene	20	ug/l	WHO	0	< 1	< 1				< 10	< 1	< 1	< 10	< 1	< 1
Trans-1,2 Dichloroethene	50	ug/l	WHO	0	< 1	< 1				< 10	< 1	< 1	< 10	< 1	< 1
Benzene	1	ug/l	UK DWS	3	7.82	< 1				< 10	< 1	< 1	< 10	< 1	< 1
Tetrachloromethane	3	ug/l	UK DWS	0	< 1	< 1				< 10	< 1	< 1	< 10	< 1	< 1
1,2-Dichloropropane	40	ug/l	WHO	0	< 1	< 1				< 10	< 1	< 1	< 10	< 1	< 1
Trichloroethene	10	ug/l	UK DWS	0	< 1	< 1				< 10	< 1	< 1	< 10	< 1	< 1
Dibromomethane	100	ug/l	UK DWS	0	< 1	< 1				< 10	< 1	< 1	< 10	< 1	< 1
Bromodichloromethane	100	ug/l	UK DWS	0	< 1	< 1				< 10	< 1	< 1	< 10	< 1	< 1
Cis-1,3 Dichloropropene	20	ug/l	WHO	0	< 1	< 1				< 10	< 1	< 1	< 10	< 1	< 1
Trans-1,3 Dichloropropene	20	ug/l	WHO	0	< 1	< 1				< 10	< 1	< 1	< 10	< 1	< 1
Toluene	74	ug/l	FEQS	0	2.18	< 1				< 10	< 1	< 1	< 10	< 1	< 1
1,1,2-Trichloroethane	400	ug/l	FEQS	0	< 1	< 1				< 10	< 1	< 1	< 10	< 1	< 1
1,3-Dichloropropane	40	ug/l	WHO	0	< 1	< 1				< 10	< 1	< 1	< 10	< 1	< 1
Dibromochloromethane	100	ug/l	WHO	0	< 1	< 1				< 10	< 1	< 1	< 10	< 1	< 1
Tetrachloroethene	10	ug/l	UK DWS	0	< 1	< 1				< 10	< 1	< 1	< 10	< 1	< 1
1,2-Dibromoethane	0.4	ug/l	WHO	0	< 1	< 1				< 10	< 1	< 1	< 10	< 1	< 1
Chlorobenzene	0.4	ug/l	FEQS	3	1.46	< 1				< 10	< 1	< 1	< 10	< 1	< 1
1,1,1,2-Tetrachloroethane	400	ug/l	USEPA	0	< 1	< 1				< 10	< 1	< 1	< 10	< 1	< 1
Ethylbenzene	20	ug/l	FEQS	0	3.06	< 1				< 10	< 1	< 1	< 10	< 1	< 1
m,p-Xylenes	30	ug/l	FEQS	0	4.92	1.74				< 10	< 1	< 1	< 10	< 1	< 1
Styrene	20	ug/l	WHO	0	< 1	< 1				< 10	< 1	< 1	< 10	< 1	< 1
Tribromomethane	10	ug/l	Default	0	< 1	< 1				< 10	< 1	< 1	< 10	< 1	< 1
o-Xylene	30	ug/l	FEQS	0	2.14	< 1				< 10	< 1	< 1	< 10	< 1	< 1
1,1,2,2-Tetrachloroethane	400	ug/l	USEPA	0	< 1	< 1				< 10	< 1	< 1	< 10	< 1	< 1
Iso-propylbenzene	1	ug/l	UK DWS	3	2.22	< 1				< 10	< 1	< 1	< 10	< 1	< 1
Bromobenzene	1	ug/l	UK DWS	0	< 1	< 1				< 10	< 1	< 1	< 10	< 1	< 1
Propylbenzene	1	ug/l	UK DWS	1	< 1	< 1				< 10	< 1	< 1	< 10	< 1	< 1
2-Chlorotoluene	700	ug/l	WHO	0	< 1	< 1				< 10	< 1	< 1	< 10	< 1	< 1
4-Chlorotoluene	700	ug/l	WHO	0	< 1	< 1				< 10	< 1	< 1	< 10	< 1	< 1
1,3,5 Trimethylbenzene	1	ug/l	UK DWS	1	< 1	< 1				< 10	< 1	< 1	< 10	< 1	< 1
tert-Butylbenzene	1	ug/l	UK DWS	0	< 1	< 1				< 10	< 1	< 1	< 10	< 1	< 1
1,2,4 Trimethylbenzene	1	ug/l	UK DWS	2	< 1	< 1				< 10	< 1	< 1	< 10	< 1	< 1
sec-Butylbenzene	1	ug/l	UK DWS	0	< 1	< 1				< 10	< 1	< 1	< 10	< 1	< 1
1,3 Dichlorobenzene	3000	ug/l	USEPA	0	< 1	< 1				< 10	< 1	< 1	< 10	< 1	< 1
p-Isopropyltoluene	74	ug/l	FEQS	0	1.21	< 1				< 10	< 1	< 1	< 10	< 1	< 1
1,2-Dichlorobenzene	1000	ug/l	WHO	0	< 1	< 1				< 10	< 1	< 1	< 10	< 1	< 1
1,4 Dichlorobenzene	300	ug/l	WHO	0	< 1	< 1				< 10	< 1	< 1	< 10	< 1	< 1
n-Butylbenzene	1	ug/l	UK DWS	0	< 1	< 1				< 10	< 1	< 1	< 10	< 1	< 1
1,2-Dibromo-3-chloropropane	1	ug/l	WHO	0	< 1	< 1				< 10	< 1	< 1	< 10	< 1	< 1
1,2,4-Trichlorobenzene	70	ug/l	USEPA	0	< 1	< 1				< 10	< 1	< 1	< 10	< 1	< 1
Hexachlorobutadiene	0.6	ug/l	WHO	0	< 1	< 1				< 10	< 1	< 1	< 10	< 1	< 1
2,6 Chloronitrotoluene	700	ug/l	WHO	0											
4,2 Chloronitrotoluene	700	ug/l	WHO	0											
4,3 Chloronitrotoluene	700	ug/l	WHO	0											

Appendix G

G4 Landfill Leachate Screening

Assessment Scenario

Water Abstraction

					Summary								19500421					
Lab Sample ID	Screening Value	Units	Screening Standard	Number of Exceedances	LW201	LW202	LW202	LW203	LW203	LW204	LW204	LW204	LW205	LW205	LW205			
Client Sample No																		
Client Sample ID																		
Depth to Top					14.76	9.91	10.51	11.48	11.7	11.22	11.25	11.29	4.98	4.46	04/01/1900			
Depth to Bottom					15.84		10.99	12	12.03	12.34	11.28	12.42	5.82	5.94	5.92			
Date Sampled	04/10/2018	08/08/2018	10/09/2018	10/08/2018	11/09/2018	08/08/2018	11/09/2018	08/10/2018	15/01/2019	06/02/2019	06/03/2019							
Sample Type															None Supplied			
2,4-Chloronitrotoluene	700	ug/l	WHO	0														
2,5-Chloronitrotoluene	700	ug/l	WHO	0														
1,2,3-Trichlorobenzene	0.4	ug/l	FEQS	0	< 1	< 1				< 10	< 1	< 1	< 10	< 1	< 1			
1,2,3-Trichloropropane	40	ug/l	WHO	0	< 1	< 1				< 10	< 1	< 1	< 10	< 1	< 1			
1,3,5-Trichlorobenzene	0.4	ug/l	FEQS	0	< 1	< 1				< 10	< 1	< 1	< 10	< 1	< 1			
Bromochloromethane	100	ug/l	WHO	0	< 1	< 1				< 10	< 1	< 1	< 10	< 1	< 1			
Dichloromethane	20	ug/l	FEQS	0	< 3	< 3				< 30	< 3	< 3	< 30	< 3	< 3			
Carbon disulphide	10	ug/l	Default	0	< 1	4.55				< 10	< 1	< 1	< 10	< 1	< 1			
Dichlorodifluoromethane	20	ug/l	FEQS	0	< 1	< 1				< 10	< 1	< 1	< 10	< 1	< 1			
SVOCs																		
Phenol	7.7	ug/l	FEQS	5	< 10				2.37		< 8	< 10	< 50	< 4	< 10			
2-Chlorophenol	50	ug/l	FEQS	0	< 10				< 1		< 8	< 10	< 50	< 4	< 10			
Bis(2-chloroethyl)ether	1000	ug/l	USEPA	0	< 10				< 1		< 8	< 10	< 50	< 4	< 10			
Bis(2-chloroisopropyl)ether	1000	ug/l	USEPA	0														
2-Methylphenol	100	ug/l	FEQS	0	< 10				< 1		< 8	< 10	< 50	< 4	< 10			
Hexachloroethane	40	ug/l	USEPA	0	< 10				< 1		< 8	< 10	< 50	< 4	< 10			
Nitrobenzene	1	ug/l	UK DWS	0	< 10				< 1		< 8	< 10	< 50	< 4	< 10			
4-Methylphenol	100	ug/l	FEQS	3	38.1				< 1		< 8	< 10	< 50	< 4	< 10			
Isophorone	7000	ug/l	USEPA	0	< 10				< 1		< 8	< 10	< 50	< 4	< 10			
2-Nitrophenol	7.7	ug/l	FEQS	0	< 10				< 1		< 8	< 10	< 50	< 4	< 10			
2,4-Dimethylphenol	100	ug/l	FEQS	0	< 10				< 1	10.1	< 10	< 10	< 50	< 4	< 10			
Bis(2-chloroethoxy)methane	10	ug/l	Default	0	< 10				1.79		< 8	< 10	< 50	< 4	< 10			
2,4-Dichlorophenol	4.2	ug/l	FEQS	0	< 10				< 1		< 8	< 10	< 50	< 4	< 10			
4-Chloro-3-methylphenol	40	ug/l	FEQS	0	< 10				< 1		< 8	< 10	< 50	< 4	< 10			
2,4,6-trichlorophenol	200	ug/l	WHO	0	< 10				< 1		< 8	< 10	< 50	< 4	< 10			
2,4,5-Trichlorophenol	200	ug/l	WHO	0	< 10				< 1		< 8	< 10	< 50	< 4	< 10			
2-Methylnaphthalene	2	ug/l	FEQS	0	< 10				< 1		< 8	< 10	< 50	< 4	< 10			
2-Chloronaphthalene	2	ug/l	FEQS	0	< 10				< 1		< 8	< 10	< 50	< 4	< 10			
Dimethylphthalate	800	ug/l	FEQS	0	< 10				< 1		< 8	< 10	< 50	< 4	< 10			
2,6-Dinitrotoluene	100	ug/l	USEPA	0	< 10				< 1		< 8	< 10	< 50	< 4	< 10			
2,4-Dinitrotoluene	100	ug/l	USEPA	0	< 10				< 1		< 8	< 10	< 50	< 4	< 10			
Dibenzofuran	2	ug/l	FEQS	0	< 10				< 1		< 8	< 10	< 50	< 4	< 10			
Diethyl phthalate	200	ug/l	FEQS	0	< 10				< 1		< 8	< 10	< 50	< 4	< 10			
Bromophenyl phenyl ether	10	ug/l	Default	0	< 10				< 1		< 8	< 10	< 50	< 4	< 10			
Hexachlorobenzene	1	ug/l	USEPA	0	< 10				< 1		< 8	< 10	< 50	< 4	< 10			
Phenanthrene	2	ug/l	FEQS	5	0.722	290			< 1	86	0.901	4.55	3.25	0.639	0.0097			
Carbazole	2	ug/l	FEQS	0	< 10				< 1		< 8	< 10	< 50	< 4	< 10			
Di-n-butyl phthalate	8	ug/l	FEQS	0	< 10				< 1		< 8	< 10	< 50	< 4	< 10			
Butyl benzyl phthalate	7.5	ug/l	FEQS	0	< 10				< 1		< 8	< 10	< 50	< 4	< 10			
PCBs by GC-ECD - WHO 12																		
PCB Congener 77	25	ug/l	FEQS	0	< 0.015	< 0.03				< 0.375	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015			
PCB Congener 81	25	ug/l	FEQS	0	< 0.015	< 0.03				< 0.375	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015			
PCB Congener 105	25	ug/l	FEQS	0	< 0.015	< 0.03				< 0.375	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015			
PCB Congener 114	25	ug/l	FEQS	0	< 0.015	< 0.03				< 0.375	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015			
PCB Congener 118	25	ug/l	FEQS	0	< 0.015	< 0.03				< 0.375	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015			
PCB Congener 123	25	ug/l	FEQS	0	< 0.015	< 0.03				< 0.375	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015			
PCB Congener 126	25	ug/l	FEQS	0	< 0.015	< 0.03				< 0.375	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015			
PCB Congener 156	25	ug/l	FEQS	0	< 0.015	< 0.03				< 0.375	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015			
PCB Congener 157	25	ug/l	FEQS	0	< 0.015	< 0.03				< 0.375	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015			
PCB Congener 167	25	ug/l	FEQS	0	< 0.015	< 0.03				< 0.375	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015			
PCB Congener 169	25	ug/l	FEQS	0	< 0.015	< 0.03				< 0.375	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015			
PCB Congener 189	25	ug/l	FEQS	0	< 0.015	< 0.03				< 0.375	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015			
PCBs	25	ug/l	FEQS	0														
Environmental Forensics																		
PFOS	0.3	ug/l	DWS	0	0.126						0.105	0.127		< 0.1	< 1			

Appendix G G4 Landfill Leachate Screening

Assessment Scenario

Water Abstraction

Lab Sample ID	Screening Value	Units	Screening Standard	Summary											
				Number of Exceedances	LW201	LW202	LW202	LW203	LW203	LW204	LW204	LW204	LW205	LW205	
Client Sample No					LW201	LW202	LW202	LW203	LW203	LW204	LW204	LW204	LW205	LW205	19500421
Client Sample ID															LW205
Depth to Top					14.76	9.91	10.51	11.48	11.7	11.22	11.25	11.29	4.98	4.46	04/01/1900
Depth to Bottom					15.84		10.99	12	12.03	12.34	11.28	12.42	5.82	5.94	5.92
Date Sampled					04/10/2018	08/08/2018	10/09/2018	10/08/2018	11/09/2018	08/08/2018	11/09/2018	08/10/2018	15/01/2019	06/02/2019	06/03/2019
Sample Type															None Supplied
PFOS	0.3	ug/l	DWS	0											
PFOA	0.3	ug/l	DWS	0											0.00274
Metaldehyde	0.1	ug/l	UK DWS	0											
Chloronitrotoluenes (sum)	10	ug/l	FEQS	0											
Chlorbufam	0.1	ug/l	UK DWS	0											
Chloroxuron	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.1			< 0.01	< 0.1	< 0.01		< 0.01	< 0.01
Chlorpropham	0.1	ug/l	UK DWS	0	< 0.05	< 0.5	< 0.5			< 0.5	< 0.5	< 0.05		< 0.05	< 0.05
Ethiofencarb	0.1	ug/l	UK DWS	0	< 0.02	< 0.2	< 0.2			< 0.02	< 0.2	< 0.02		< 0.02	< 0.02
Phenmedipham	0.1	ug/l	UK DWS	0											
Propham	0.1	ug/l	UK DWS	0	< 0.05	< 0.5	< 0.5			< 0.5	< 0.5	< 0.05		< 0.05	< 0.05
Dimefuron	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.2			< 0.02	< 0.2	< 0.02		< 0.02	< 0.02
Metoxuron	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.1			< 0.01	< 0.1	< 0.01		< 0.01	< 0.01
Pencycuron	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.2			< 0.02	< 0.2	< 0.02		< 0.02	< 0.02
o,p-Methoxychlor	0.1	ug/l	UK DWS	0											< 0.01
Demeton-s-methyl	0.1	ug/l	UK DWS	0	< 0.01	< 0.1				< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Diclofop	0.1	ug/l	UK DWS	0	< 1	< 0.02	< 0.02			< 0.02	< 0.02	< 1		< 0.02	< 0.2
Fenvalerate	0.1	ug/l	UK DWS	0											
Cyhalothrin	0.1	ug/l	UK DWS	0											< 0.05
Ametryn	0.1	ug/l	UK DWS	0											
Atrazine-methoxy	0.1	ug/l	UK DWS	0											< 0.01
Bromacil	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.1			< 0.01	< 0.1	< 0.01		< 0.01	< 0.01
Flamprop	0.1	ug/l	UK DWS	0											
Flamprop-isopropyl	0.1	ug/l	UK DWS	0											
Prometon	0.1	ug/l	UK DWS	0											
Simetryn	0.1	ug/l	UK DWS	0											
4-Nitrophenol	7.7	ug/l	FEQS	0	< 10				< 1		< 8	< 10	< 50	< 4	< 10
Hexachlorocyclopentadiene	50	ug/l	USEPA	0	< 10				< 1		< 8	< 10	< 50	< 4	< 10
Perylene	2	ug/l	FEQS	0											
n-Nitroso-n-dipropylamine	0.1	ug/l	UK DWS	1	< 10				< 1		< 8	< 10	< 50	< 4	< 10
Carbamates															
Pirimicarb	100	ng/l	UK DWS	0	< 10	< 10	< 100			< 10	< 100	< 10		< 10	< 0.01
Carbetamide	100	ng/l	UK DWS	0	< 10	< 10	< 100			< 10	< 100	< 10		< 10	< 0.01
Phthalates															
Bis(2-ethylhexyl)phthalate	8	ug/l	WHO	3	21.6				< 2		20	< 20	< 100	< 8	< 20
Di-n-octyl phthalate	20	ug/l	FEQS	0	< 50				< 5		< 40	< 50	< 250	< 20	< 50
Total phthalates	N/A	mg/l	-	0											
Glycols															
Ethylene Glycol	0.01	mg/l	Default	0											
Diethylene Glycol	0.01	mg/l	Default	0											
1,2-Propanediol	0.01	mg/l	Default	0											
Rodenticides															
Triazine Pesticides															
Atrazine	0.1	ug/l	UK DWS	0	< 0.01	< 0.1				< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Simazine	0.1	ug/l	UK DWS	0	< 0.01	< 0.1				< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Prometryn	0.1	ug/l	UK DWS	0	< 0.01	< 0.01				< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Propazine	0.1	ug/l	UK DWS	0	< 0.01	< 0.01				< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Terbutylazine	0.1	ug/l	UK DWS	0											
Terbutryn	0.1	ug/l	UK DWS	0	< 0.01	< 0.01				< 0.01	< 0.01	< 0.01		< 0.01	< 0.01
Acid herbicides esters															
2,4-D Methyl Ester	0.1	ug/l	UK DWS	0											
2,4-D butyl ester	0.1	ug/l	UK DWS	0											
2,4-D ethyl ester	0.1	ug/l	UK DWS	0											
2,4-D isobutyl ester	0.1	ug/l	UK DWS	0											
2,4-D isopropyl ester	0.1	ug/l	UK DWS	0											
Acid Herbicides															

Appendix G G4 Landfill Leachate Screening

Assessment Scenario

Water Abstraction

					Summary								19500421						
Lab Sample ID	Screening Value	Units	Screening Standard	Number of Exceedances	LW201	LW202	LW202	LW203	LW203	LW204	LW204	LW204	LW205	LW205	LW205				
Client Sample No																			
Client Sample ID																			
Depth to Top					14.76	9.91	10.51	11.48	11.7	11.22	11.25	11.29	4.98	4.46	04/01/1900				
Depth to Bottom					15.84		10.99	12	12.03	12.34	11.28	12.42	5.82	5.94	5.92				
Date Sampled	04/10/2018	08/08/2018	10/09/2018	10/08/2018	11/09/2018	08/08/2018	11/09/2018	08/10/2018	15/01/2019	06/02/2019	06/03/2019								
Sample Type															None Supplied				
2,3,6-TBA	0.1	ug/l	UK DWS	0	< 100	< 1	< 5			< 1	< 1	< 100		< 1	< 10				
Benazolin	0.1	ug/l	UK DWS	0	< 2.5	< 0.05	< 0.05			< 0.05	< 0.05	< 2.5		< 0.05	< 0.5				
Bromoxynil	0.1	ug/l	UK DWS	0	< 0.5	< 0.01	< 0.01			< 0.01	< 0.01	< 0.5		< 0.01	< 0.1				
Clopyralid	0.1	ug/l	UK DWS	1	< 1.5	< 0.03	< 0.3			< 0.03	< 0.3	< 1.5		< 0.03	< 0.3				
Ioxynil	0.1	ug/l	UK DWS	0	< 0.5	< 0.01	< 0.01			< 0.01	< 0.01	< 0.5		< 0.01	< 0.1				
2,4,5-T	0.1	ug/l	UK DWS	0	< 0.5	< 0.01	< 0.01			< 0.01	< 0.01	< 0.5		< 0.01	< 0.1				
2,4,5-TP	0.1	ug/l	UK DWS	0	< 0.5	< 0.01	< 0.01			< 0.01	< 0.01	< 0.5		< 0.1	< 0.1				
2,4-D	0.1	ug/l	UK DWS	0	< 0.5	0.024	0.056			< 0.01	< 0.01	< 0.5		< 0.01	< 0.1				
2,4-DB	0.1	ug/l	UK DWS	0	< 1	< 0.02	< 0.02			< 0.02	< 0.02	< 1		< 0.02	< 0.2				
Dicamba	0.1	ug/l	UK DWS	0	< 1.5	< 0.03	< 0.03			< 0.03	< 0.03	< 1.5		< 0.03	< 0.3				
Dichlorprop	0.1	ug/l	UK DWS	0	< 0.5	0.015	< 0.01			< 0.01	< 0.01	< 0.5		< 0.01	< 0.1				
MCPA	0.1	ug/l	UK DWS	0	< 0.5	< 0.01	< 0.01	0.054	0.06	< 0.01	< 0.01	< 0.5		< 0.01	< 0.1				
MCPB	0.1	ug/l	UK DWS	0	< 1	< 0.02	< 0.02			< 0.02	< 0.02	< 1		< 0.02	< 0.2				
Mecoprop	0.1	ug/l	UK DWS	6	< 0.5	1.23	1.91			2.44	3.51	< 0.5		< 0.01	< 0.1				
Picloram	0.1	ug/l	UK DWS	0	< 1	< 0.02	< 0.2			< 0.02	< 0.2	< 1		< 0.02	< 0.2				
4-Chlorophenoxyacetic acid	0.1	ug/l	UK DWS	0															
Organochlorine Pesticides																			
Aldrin	0.03	ug/l	UK DWS	0	< 0.1					< 0.01	< 0.1	< 0.02		< 0.01	< 0.01				
alpha-HCH (alpha-BHC)	0.1	ug/l	UK DWS	0	< 0.1					< 0.01	< 0.1	< 0.02		< 0.01	< 0.01				
beta-HCH (beta-BHC)	0.1	ug/l	UK DWS	0	< 0.1					< 0.01	< 0.1	< 0.02		< 0.01	< 0.01				
delta-HCH (delta-BHC)	0.1	ug/l	UK DWS	0	< 0.1					< 0.01	< 0.1	< 0.02		< 0.01	< 0.01				
Dieldrin	0.03	ug/l	UK DWS	0	< 0.1					< 0.01	< 0.1	< 0.02		< 0.01	< 0.01				
Endosulfan	0.1	ug/l	UK DWS	0	< 0.1					< 0.01	< 0.1	< 0.02		< 0.01	< 0.01				
Endosulfan	0.1	ug/l	UK DWS	0	< 0.2					< 0.02	< 0.2	< 0.04		< 0.02	< 0.02				
Endosulfan Sulphate	0.1	ug/l	UK DWS	0	< 0.2					< 0.02	< 0.2	< 0.04		< 0.02	< 0.02				
Endrin	0.1	ug/l	UK DWS	0	< 0.1					< 0.01	< 0.1	< 0.02		< 0.01	< 0.01				
gamma-HCH (gamma-BHC)	0.1	ug/l	UK DWS	0	< 0.1					< 0.01	< 0.1	< 0.02		< 0.01	< 0.01				
Heptachlor	0.03	ug/l	UK DWS	0	< 0.1					< 0.01	< 0.1	< 0.02		< 0.01	< 0.01				
Heptachlor Epoxide	0.03	ug/l	UK DWS	0	< 0.1					< 0.01	< 0.1	< 0.02		< 0.01	< 0.01				
Isodrin	0.1	ug/l	UK DWS	0	< 0.1					< 0.01	< 0.1	< 0.02		< 0.01	< 0.01				
Methoxychlor	0.1	ug/l	UK DWS	0	< 0.1					< 0.01	< 0.1	< 0.02		< 0.01	< 0.01				
o,p-DDE	0.1	ug/l	UK DWS	0	< 0.1					< 0.01	< 0.1	< 0.02		< 0.01	< 0.01				
DDT	0.1	ug/l	UK DWS	0	< 0.1					< 0.01	< 0.1	< 0.02		< 0.01	< 0.01				
o,p-TDE (o,p-DDD)	0.1	ug/l	UK DWS	0	< 0.1					< 0.01	< 0.1	< 0.02		< 0.01	< 0.01				
p,p-DDE	0.1	ug/l	UK DWS	0	< 0.1					< 0.01	< 0.1	< 0.02		< 0.01	< 0.01				
DDT	0.1	ug/l	UK DWS	0	< 0.1					< 0.01	< 0.1	< 0.02		< 0.01	< 0.01				
p,p-TDE (o,p-DDD)	0.1	ug/l	UK DWS	0	< 0.1					< 0.01	< 0.1	< 0.02		< 0.01	< 0.01				
Trifluralin	0.1	ug/l	UK DWS	0	< 0.1					< 0.01	< 0.1	< 0.02		< 0.01	< 0.01				
Organonitrogen pesticides																			
Bentazone	0.1	ug/l	UK DWS	0	< 0.5	< 0.01	< 0.01			< 0.01	< 0.01	< 0.5		< 0.01	< 0.1				
Fluroxypyr	0.1	ug/l	UK DWS	0	< 1	< 0.02	< 0.02			0.052	< 0.02	< 1		< 0.02	< 0.2				
Triclopyr	0.1	ug/l	UK DWS	0	< 1.5	< 0.03	< 0.03			< 0.03	< 0.03	< 1.5		< 0.03	< 0.3				
Organophosphorous pesticides																			
Azinphos-ethyl	0.1	ug/l	UK DWS	0	< 0.02	< 0.2				< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02				
Azinphos-methyl	0.1	ug/l	UK DWS	1	< 0.02	< 0.2				< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02				
Chlorfenvinphos	0.1	ug/l	UK DWS	0	< 0.01	< 0.1				< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Chlorfenvinphos I	0.1	ug/l	UK DWS	0															
Chlorfenvinphos II	0.1	ug/l	UK DWS	0															
Chlorpyrifos-methyl	0.1	ug/l	UK DWS	0															
Diazinon	0.1	ug/l	UK DWS	0	< 0.01	< 0.1				< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Dichlorvos	0.1	ug/l	UK DWS	0	< 0.01	< 0.1				< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Dimethoate	0.1	ug/l	UK DWS	0	< 0.01	< 0.1				< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
E-mevinphos	0.1	ug/l	UK DWS	0	< 0.01	< 0.1				< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Z-Mevinphos	0.1	ug/l	UK DWS	0	< 0.01	< 0.1				< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Ethion	0.1	ug/l	UK DWS	0	< 0.01	< 0.1				< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				

Appendix G G4 Landfill Leachate Screening

Assessment Scenario

Water Abstraction

					Summary									19500421	
Lab Sample ID	Screening Value	Units	Screening Standard	Number of Exceedances	LW201	LW202	LW202	LW203	LW203	LW204	LW204	LW204	LW205	LW205	LW205
Client Sample No															
Client Sample ID					14.76	9.91	10.51	11.48	11.7	11.22	11.25	11.29	4.98	4.46	04/01/1900
Depth to Top					15.84		10.99	12	12.03	12.34	11.28	12.42	5.82	5.94	5.92
Depth to Bottom					04/10/2018	08/08/2018	10/09/2018	10/08/2018	11/09/2018	08/08/2018	11/09/2018	08/10/2018	15/01/2019	06/02/2019	06/03/2019
Date Sampled															
Sample Type															None Supplied
Fenitrothion	0.1	ug/l	UK DWS	0	< 0.01	< 0.1				< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fenthion	0.1	ug/l	UK DWS	0	< 0.01	< 0.1				< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Malathion	0.1	ug/l	UK DWS	0	< 0.01	< 0.1				< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Parathion-ethyl	0.1	ug/l	UK DWS	0	< 0.01	< 0.1				< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Parathion-methyl	0.1	ug/l	UK DWS	0	< 0.01	< 0.1				< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Phenylurea herbicides															
Isoproturon	100	ng/l	UK DWS	0	< 10	< 10	< 100			< 10	< 100	< 10		< 10	< 0.01
Chlortoluron	100	ng/l	UK DWS	0	< 10	< 10	< 100			< 10	< 100	< 10		< 10	< 0.01
Diflufenzuron	100	ng/l	UK DWS	0	< 20	< 20	< 200			< 20	< 200	< 20		< 20	< 0.02
Diuron	100	ng/l	UK DWS	0	< 10	< 10	< 100			< 10	< 100	< 10		< 10	< 0.01
Linuron	100	ng/l	UK DWS	0	< 20	< 20	< 200			< 20	< 200	< 20		< 20	< 0.02
Methabenzthiazuron	100	ng/l	UK DWS	0	< 10	< 10	< 100			< 10	< 100	< 10		< 10	< 0.01
Monolinuron	100	ng/l	UK DWS	0	< 20	< 20	< 200			< 20	< 200	< 20		< 20	< 0.02
Monuron	100	ng/l	UK DWS	4	291	126	< 200			< 20	< 200	< 20		< 20	< 20
VFAs															
Acetic acid	0.01	mg/l	Default	6	31.2	18.6	33.8			< 10	< 10	< 10	14.4	< 10	< 10
Propanoic acid	0.01	mg/l	Default	2	< 10	< 10	< 20			< 10	< 10	< 10	< 10	< 10	< 10
Butyric acid	0.01	mg/l	Default	1	< 10	< 10	< 20			< 10	< 10	< 10	< 10	< 10	< 10
Isobutyric acid	0.01	mg/l	Default	1	< 10	< 10	< 20			< 10	< 10	< 10	< 10	< 10	< 10
Pentanoic acid	0.01	mg/l	Default	0	< 10	< 10	< 20			< 10	< 10	< 10	< 10	< 10	< 10
Isopentanoic acid	0.01	mg/l	Default	0	< 10	< 10	< 20			< 10	< 10	< 10	< 10	< 10	< 10
Hexanoic acid	0.01	mg/l	Default	0	< 10	< 10	< 20			< 10	< 10	< 10	< 10	< 10	< 10
Heptanoic acid	0.01	mg/l	Default	0	< 11	< 11	< 22			< 11	< 11	< 11	< 11	< 11	< 11
Pyrethroids															
Cyfluthrin	0.1	ug/l	UK DWS	0	< 0.05	< 0.05				< 0.05	< 0.05	< 0.05	< 1	< 0.05	< 0.05
Cypermethrin	100	ng/l	UK DWS	0	< 50	< 50				< 50	< 50	< 50	< 1000	< 50	< 0.05
Deltamethrin	0.1	ug/l	UK DWS	0	< 0.05	< 0.05				< 0.05	< 0.05	< 0.05	< 1	< 0.05	< 0.05
Permethrin	0.1	ug/l	UK DWS	0	< 0.1					< 0.01	< 0.1	< 0.02		< 0.01	< 0.01
Permethrin	0.1	ug/l	UK DWS	0	< 0.1					< 0.01	< 0.1	< 0.02		< 0.01	< 0.01
Organotins															
Tributyltin compounds	0.2	ng/l	FEQS	0	< 3					< 2	< 6	< 1		< 6	< 6
TPT (Triphenyl Tin)	0.2	ng/l	FEQS	0	< 3					< 2	< 6	< 1		< 6	< 6
DBT (Dibutyl Tin)	0.2	ng/l	FEQS	0	< 15					< 10	< 30	< 5		< 30	< 30
Chlorophenols															
Pentachlorophenol	0.0004	mg/l	FEQS	0	< 0.01					< 0.001	< 0.008	< 0.01	< 0.05	< 0.004	< 10
Others															
Bromoform	0.1	mg/l	WHO	0	< 0.001	< 0.001				< 0.01	< 0.001	< 0.001	< 0.01	< 0.001	< 1
Lambda-cyhalothrin	0.1	ug/l	UK DWS	0	< 0.05	< 0.05				< 0.05	< 0.05	< 0.05	< 1	< 0.05	
Methane	N/A	ug/l	-	0	10200						1600	1080		< 1	< 2.26

Appendix G

G5 Perched Groundwater Screening

Assessment Scenario

Water Abstraction

				Summary														
Lab Sample ID	Screening value	Units	Screening standard	Number of Exceedances	BH206	BH209	BH209	BH210	BH213	BH214	BH214	BH214	BH223	BH228	19507794	BH228	BH231	BH231
Client Sample No					7.22	12.54	12.82	9.58	16.79	18.41	18.4	18.46	8.1	5.29	6.65	7.65	6.89	
Client Sample ID					8.15	12.54-13.35	13.33	not supplied	17.69	19.27	19.05	19.20	8.88	8.15	8.23	8.0	8.0	
Depth to Top					15/08/2018	11/09/2018	08/10/2018	15/01/2019	16/08/2018	16/08/2018	12/09/2018	08/10/2018	15/01/2019	06/02/2019	07/03/2019	15/01/2019	06/02/2019	
Depth to Bottom					None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	
Date Sampled					None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	
Sample Type					None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	
Inorganics																		
Organics																		
General inorganics																		
pH	N/A	pH units	-		7.4	7.44	7.74	7.37	7.35	6.98	7.48	7.43	7.28	7.93	7.4	7.14	7	
Total Cyanide	50	ug/l	UK DWS	1	< 50	50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	51	< 50	
Complex Cyanides	50	ug/l	UK DWS	1	< 50	50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	51	< 50	
Free Cyanide	50	ug/l	UK DWS	0	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	
Thiocyanate as SCN	50	ug/l	UK DWS	3	< 50	100	119	< 50	< 50	< 50	< 50	66	< 50	< 50	< 50	< 50	< 50	
Sulphate as SO4	250000	ug/l	UK DWS	2	322000	104000	98400	259000	8100	29800	29200	8800	24000	99200	90700	94300	155000	
Sulphide	2500000	ug/l	UK DWS	0	< 10	< 10	1360	< 10	109	< 10	< 10	95	< 10	< 10	< 10	< 10	< 10	
Chloride	250	mg/l	UK DWS	12	223	544	503	192	250	390	395	482	1500	742	174	928		
Fluoride	1500	ug/l	UK DWS	0	< 500	892	715	830	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	
Ammoniacal Nitrogen as N	390	ug/l	UK DWS	17	104000	293000	289000	29600	224000	97900	103000	110000	119000	294	350	3950	815	
Nitrate as NO3	50	mg/l	UK DWS	0	< 0.3	0.302	2.07	0.316	0.446	19.1	< 0.3	< 0.3	3.32	0.326	< 0.3	< 0.3		
Nitrite as NO2	500	ug/l	UK DWS	0	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	324	87	< 50	186		
Alkalinity	N/A	mg/l	-	0	1510	3700	2930	1000	1940	1870	1880	4050	2200	157	241	1470	259	
Chemical Oxygen Demand (COD)	N/A	mg/l	-	0	243	565	852	1250	198	306	580	976	9460	47.8	24.5	2180	146	
Biological Oxygen Demand (BOD)	N/A	mg/l	-	0	16.1	41.2	52.3	< 500	< 5	< 50	127	121	104	< 1	< 1	62.7	12.1	
Total Oxidised N (Nitrate/-ite)	11.3	mg/l	UK DWS	0	< 0.1	< 0.1	0.477	< 0.1	0.107	4.32	< 0.1	< 0.1	0.849	0.1	< 0.1	< 0.1		
Total Suspended Solids	N/A	mg/l	-	0	475	3620	4900	22200	67.3	790	2730	17100	110000	8.55	21.4	7880	717	
Hardness - Total	N/A	mg/l	-	0	1260	1470	1520	287	565	1490	3240	1630	14500	738	475	2130	902	
Bromide	N/A	mg/l	-	0	2.24	6.81	< 0.06	2.5	4.59	4.72	< 0.06	1.49	0.568	0.354	0.888	0.472		
Bromate	0.01	mg/l	UK DWS	2	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		
Phenols																		
Cresols	100	ug/l	FEQS	1	20	10	10	< 6	< 6	< 6	< 6	10	< 6	< 6	< 6	40	< 6	
Isopropylphenol	7.7	ug/l	FEQS	1	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	
Phenol	7.7	ug/l	FEQS	3	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	40	< 2	
Trimethylphenol	100	ug/l	FEQS	0	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	
Speciated PAHs																		
Naphthalene	2	ug/l	FEQS	3	0.0771	0.562		0.0353	0.0251	0.0432	0.0286	0.0232	0.858	0.0363	0.184	76.1	72.9	
Acenaphthylene	2	ug/l	FEQS	0	0.104	0.19		< 0.005	0.0094	< 0.005	< 0.005	0.017	0.134	< 0.005	0.00551	1.45	0.674	
Acenaphthene	2000	ug/l	USEPA	0	2.32	4.57		0.284	0.281	0.0288	0.116	0.234	0.711	0.141	0.112	9.99	8.82	
Fluorene	2	ug/l	FEQS	4	0.588	3.5		0.188	0.072	0.0197	0.0779	0.113	0.714	0.0817	0.0371	7.74	9.8	
Phenanthrene	2	ug/l	FEQS	7	1.21	9.69		0.768	0.0127	0.12	0.531	0.338	3.78	0.105	0.00828	31	26.9	
Anthracene	0.1	ug/l	FEQS	11	0.5	2.51		0.192	0.00505	0.0325	0.157	0.0523	0.993	0.0234	0.0124	8.28	5.74	
Fluoranthene	0.0063	ug/l	FEQS	17	7.55	10.6		1.47	0.0573	0.315	1.47	0.947	6.96	0.0593	0.0806	41	31.9	
Pyrene	2	ug/l	FEQS	8	6.54	8.72		1.23	0.0527	0.293	1.4	0.939	6.31	0.0418	0.0674	34.8	24.4	
Benzo(a)anthracene	2	ug/l	FEQS	8	2.23	4.51		0.461	< 0.005	0.0926	0.707	0.303	3.18	< 0.005	0.0163	11.9	5.98	
Chrysene	2	ug/l	FEQS	8	2.09	3.89		0.374	< 0.005	0.113	0.705	0.344	2.83	< 0.005	0.0107	10.1	5.01	
Benzo(b)fluoranthene	0.1	ug/l	UK DWS	14	3.62	8.27		0.777	0.0173	0.211	1.84	0.436	7.07	0.00982	0.0191	12.5	10.9	
Benzo(k)fluoranthene	0.1	ug/l	UK DWS	13	1.38	3.59		0.324	0.00969	0.0896	0.705	0.138	3.39	< 0.005	0.00997	5.25	5.46	
Benzo(a)pyrene	0.01	ug/l	UK DWS	16	2.7	6.62		0.535	0.0143	0.129	1.27	0.259	5.18	0.00657	0.0113	10.8	7.99	
Indeno(1,2,3-cd)pyrene	0.1	ug/l	UK DWS	13	1.27	4.38		0.207	0.0113	0.0898	0.721	0.199	3.34	< 0.005	0.00692	5.97	4.29	
Dibenzo(a,h)anthracene	2	ug/l	FEQS	1	0.312	0.817		0.062	< 0.005	0.0293	0.189	< 0.01	0.971	< 0.005	< 0.005	1.24	1.19	
Benzo(g,h,i)perylene	0.1	ug/l	UK DWS	13	1.61	4.44		0.288	< 0.005	0.0894	1.05	0.265	5.27	< 0.005	0.0149	6.77	6.88	
Heavy metals and metalloids																		
Antimony	5	ug/l	UK DWS	0	1.16	1.64	1.57	< 1	< 1	< 1	1.09	< 1	1.23	1.9	1.3	1.94	2.95	
Arsenic	10	ug/l	UK DWS	6	6.02	10.4	12.2	6.87	3.7	25.2	29.3	32	6.86	1.96	1.17	11	4.2	
Barium	700	ug/l	WHO	5	432	882	850	2800	777	458	473	520	3080	206	122	338	243	
Beryllium	4	ug/l	USEPA	0	0.348	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	
Boron	1000	ug/l	UK DWS	9	2040	28000	24500	3150	2890	2330	2180	2560	2540	36.8	55	322	95.5	

Appendix G

G5 Perched Groundwater Screening

Assessment Scenario

Water Abstraction

Lab Sample ID	Screening value	Units	Screening standard	Summary															
				Number of Exceedances		BH206	BH209	BH209	BH210	BH213	BH214	BH214	BH214	BH223	BH228	19507794	BH228	BH231	BH231
Client Sample No																			
Client Sample ID																			
Depth to Top						7.22	12.54	12.82	9.58	16.79	18.41	18.4	18.46	8.1	5.29	6.65	7.65	6.89	
Depth to Bottom						8.15	12.54-13.35	13.33	not supplied	17.69	19.27	19.05	19.20	8.88	8.15	8.23	8.0	8.0	
Date Sampled						15/08/2018	11/09/2018	08/10/2018	15/01/2019	16/08/2018	16/08/2018	12/09/2018	08/10/2018	15/01/2019	06/02/2019	07/03/2019	15/01/2019	06/02/2019	
Sample Type						None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	
1,2,3-Trichloropropane	40	ug/l	WHO	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	
1,3,5-Trichlorobenzene	0.4	ug/l	FEQS	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	
Bromochloromethane	100	ug/l	WHO	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	
Dichloromethane	20	ug/l	FEQS	0	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	
Carbon disulphide	10	ug/l	Default	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1.16	< 1	< 1	< 1	< 1	
Dichlorodifluoromethane	20	ug/l	FEQS	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	
SVOCs																			
Phenol	7.7	ug/l	FEQS	0	< 1	< 8	< 10	< 20	< 1		< 8	< 10	< 50	< 1	< 1	< 10	< 1	< 1	
2-Chlorophenol	50	ug/l	FEQS	0	< 1	< 8	< 10	< 20	< 1		< 8	< 10	< 50	< 1	< 1	< 10	< 1	< 1	
Bis(2-chloroethyl)ether	1000	ug/l	USEPA	0	< 1	< 8	< 10	< 20	< 1		< 8	< 10	< 50	< 1	< 1	< 10	< 1	< 1	
Bis(2-chloroisopropyl)ether	1000	ug/l	USEPA	0															
2-Methylphenol	100	ug/l	FEQS	0	< 1	< 8	< 10	< 20	< 1		< 8	< 10	< 50	< 1	< 1	< 10	< 1	< 1	
Hexachloroethane	40	ug/l	USEPA	0	< 1	< 8	< 10	< 20	< 1		< 8	< 10	< 50	< 1	< 1	< 10	< 1	< 1	
Nitrobenzene	1	ug/l	UK DWS	0	< 1	< 8	< 10	< 20	< 1		< 8	< 10	< 50	< 1	< 1	< 10	< 1	< 1	
4-Methylphenol	100	ug/l	FEQS	0	< 1	< 8	< 10	< 20	< 1		< 8	< 10	< 50	< 1	< 1	< 10	< 1	< 1	
Isophorone	7000	ug/l	USEPA	0	< 1	< 8	< 10	< 20	< 1		< 8	< 10	< 50	< 1	< 1	< 10	< 1	< 1	
2-Nitrophenol	7.7	ug/l	FEQS	0	< 1	< 8	< 10	< 20	< 1		< 8	< 10	< 50	< 1	< 1	< 10	< 1	< 1	
2,4-Dimethylphenol	100	ug/l	FEQS	0	< 1	< 8	< 10	< 20	< 1		< 8	< 10	< 50	< 1	< 1	10.7	< 1	< 1	
Bis(2-chloroethoxy)methane	10	ug/l	Default	0	< 1	< 8	< 10	< 20	< 1		< 8	< 10	< 50	< 1	< 1	< 10	< 1	< 1	
2,4-Dichlorophenol	4.2	ug/l	FEQS	0	< 1	< 8	< 10	< 20	< 1		< 8	< 10	< 50	< 1	< 1	< 10	< 1	< 1	
4-Chloro-3-methylphenol	40	ug/l	FEQS	0	< 1	< 8	< 10	< 20	< 1		< 8	< 10	< 50	< 1	< 1	< 10	< 1	< 1	
2,4,6-trichlorophenol	200	ug/l	WHO	0	< 1	< 8	< 10	< 20	< 1		< 8	< 10	< 50	< 1	< 1	< 10	< 1	< 1	
2,4,5-Trichlorophenol	200	ug/l	WHO	0	< 1	< 8	< 10	< 20	< 1		< 8	< 10	< 50	< 1	< 1	< 10	< 1	< 1	
2-Methylnaphthalene	2	ug/l	FEQS	1	< 1	< 8	< 10	< 20	< 1		< 8	< 10	< 50	< 1	< 1	46.5	< 1	< 1	
2-Chloronaphthalene	2	ug/l	FEQS	0	< 1	< 8	< 10	< 20	< 1		< 8	< 10	< 50	< 1	< 1	< 10	< 1	< 1	
Dimethylphthalate	800	ug/l	FEQS	0	< 1	< 8	< 10	< 20	< 1		< 8	< 10	401	< 1	< 1	< 10	< 1	< 1	
2,6-Dinitrotoluene	100	ug/l	USEPA	0	< 1	< 8	< 10	< 20	< 1		< 8	< 10	< 50	< 1	< 1	< 10	< 1	< 1	
2,4-Dinitrotoluene	100	ug/l	USEPA	0	< 1	< 8	< 10	< 20	< 1		< 8	< 10	< 50	< 1	< 1	< 10	< 1	< 1	
Dibenzofuran	2	ug/l	FEQS	0	< 1	< 8	< 10	< 20	< 1		< 8	< 10	< 50	< 1	< 1	< 10	< 1	< 1	
Diethyl phthalate	200	ug/l	FEQS	0	< 1	< 8	< 10	< 20	< 1		< 8	< 10	< 50	< 1	< 1	< 10	< 1	< 1	
Bromophenyl phenyl ether	10	ug/l	Default	0	< 1	< 8	< 10	< 20	< 1		< 8	< 10	< 50	< 1	< 1	< 10	< 1	< 1	
Hexachlorobenzene	1	ug/l	USEPA	0	< 1	< 8	< 10	< 20	< 1		< 8	< 10	< 50	< 1	< 1	< 10	< 1	< 1	
Phenanthrene	2	ug/l	FEQS	7	1.21	9.69		0.768	0.0127	0.12	0.531	0.338	3.78	0.105	0.00828	31	26.9		
Carbazole	2	ug/l	FEQS	1	1.44	< 8	< 10	< 20	< 1		< 8	< 10	< 50	< 1	< 1	12.6	< 1	< 1	
Di-n-butyl phthalate	8	ug/l	FEQS	3	< 1	< 8	< 10	< 20	6.22		< 8	< 10	241	< 1	< 1	2790	24.5		
Butyl benzyl phthalate	7.5	ug/l	FEQS	4	< 1	< 8	< 10	< 20	< 1		< 8	< 10	113	< 1	< 1	10500	101		
PCBs by GC-ECD - WHO 12																			
PCB Congener 77	25	ug/l	FEQS	0	< 0.015	< 0.015		< 0.015	< 0.015	< 0.015	< 0.03	< 0.03	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	
PCB Congener 81	25	ug/l	FEQS	0	< 0.015	< 0.015		< 0.015	< 0.015	< 0.015	< 0.03	< 0.03	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	
PCB Congener 105	25	ug/l	FEQS	0	< 0.015	< 0.015		< 0.015	< 0.015	< 0.015	< 0.03	< 0.03	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	
PCB Congener 114	25	ug/l	FEQS	0	< 0.015	< 0.015		< 0.015	< 0.015	< 0.015	< 0.03	< 0.03	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	
PCB Congener 118	25	ug/l	FEQS	0	< 0.015	< 0.015		< 0.015	< 0.015	< 0.015	< 0.03	< 0.03	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	
PCB Congener 123	25	ug/l	FEQS	0	< 0.015	< 0.015		< 0.015	< 0.015	< 0.015	< 0.03	< 0.03	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	
PCB Congener 126	25	ug/l	FEQS	0	< 0.015	< 0.015		< 0.015	< 0.015	< 0.015	< 0.03	< 0.03	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	
PCB Congener 156	25	ug/l	FEQS	0	< 0.015	< 0.015		< 0.015	< 0.015	< 0.015	< 0.03	< 0.03	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	
PCB Congener 157	25	ug/l	FEQS	0	< 0.015	< 0.015		< 0.015	< 0.015	< 0.015	< 0.03	< 0.03	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	
PCB Congener 167	25	ug/l	FEQS	0	< 0.015	< 0.015		< 0.015	< 0.015	< 0.015	< 0.03	< 0.03	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	
PCB Congener 169	25	ug/l	FEQS	0	< 0.015	< 0.015		< 0.015	< 0.015	< 0.015	< 0.03	< 0.03	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	
PCB Congener 189	25	ug/l	FEQS	0	< 0.015	< 0.015		< 0.015	< 0.015	< 0.015	< 0.03	< 0.03	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	
PCBs	25	ug/l	FEQS	0															
Environmental Forensics																			

Appendix G G5 Perched Groundwater Screening

Assessment Scenario

Water Abstraction

Lab Sample ID	Screening value	Units	Screening standard	Summary													
				Number of Exceedances	BH206	BH209	BH209	BH210	BH213	BH214	BH214	BH214	BH223	BH228	19507794 BH228	BH231	BH231
Client Sample No																	
Client Sample ID																	
Depth to Top					7.22	12.54	12.82	9.58	16.79	18.41	18.4	18.46	8.1	5.29	6.65	7.65	6.89
Depth to Bottom					8.15	12.54-13.35	13.33	not supplied	17.69	19.27	19.05	19.20	8.88	8.15	8.23	8.0	8.0
Date Sampled					15/08/2018	11/09/2018	08/10/2018	15/01/2019	16/08/2018	16/08/2018	12/09/2018	08/10/2018	15/01/2019	06/02/2019	07/03/2019	15/01/2019	06/02/2019
Sample Type					None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
PFOS	0.3	ug/l	DWS	2	0.136	0.207		< 0.1	0.216	0.0307		0.0628		0.00978	0.0172	1.02	0.125
PFOS	0.3	ug/l	DWS	0													
PFOA	0.3	ug/l	DWS	0	0.0569	0.0786		< 0.065	0.0653	0.0341		0.0487		0.00446	0.00501	< 0.0325	0.00639
Chloroxuron	0.1	ug/l	UK DWS	0	< 0.1	< 0.1	< 0.01		< 0.1	< 0.1	< 0.1	< 0.01		< 0.01	< 0.01		< 0.01
Chlorpropham	0.1	ug/l	UK DWS	0	< 0.5	< 0.5	< 0.05		< 0.5	< 0.5	< 0.5	< 0.05		< 0.05	< 0.05		< 0.05
Ethiofencarb	0.1	ug/l	UK DWS	0	< 0.2	< 0.2	< 0.02		< 0.2	< 0.2	< 0.2	< 0.02		< 0.02	< 0.02		< 0.02
Phenmedipham	0.1	ug/l	UK DWS	0													
Propham	0.1	ug/l	UK DWS	0	< 0.5	< 0.5	< 0.05		< 0.5	< 0.5	< 0.5	< 0.05		< 0.05	< 0.05		< 0.05
Dimefuron	0.1	ug/l	UK DWS	0	< 0.2	< 0.2	< 0.02		< 0.2	< 0.2	< 0.2	< 0.02		< 0.02	< 0.02		< 0.02
Metoxuron	0.1	ug/l	UK DWS	0	< 0.1	< 0.1	< 0.01		< 0.1	< 0.1	< 0.1	< 0.01		< 0.01	< 0.01		< 0.01
Pencycuron	0.1	ug/l	UK DWS	0	< 0.2	< 0.2	< 0.02		< 0.2	< 0.2	< 0.2	< 0.02		< 0.02	< 0.02		< 0.02
o,p-Methoxychlor	0.1	ug/l	UK DWS	0	< 0.01	< 0.2		< 0.2	< 0.01	-	< 0.01	< 0.01	< 0.02	< 0.01	< 0.01		< 0.01
Demeton-s-methyl	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.04	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Diclofop	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 1		< 0.02	< 0.02	< 0.02	< 1		< 0.02	< 0.2		< 0.02
Fenvalerate	0.1	ug/l	UK DWS	0													
Cyhalothrin	0.1	ug/l	UK DWS	0	< 0.05	< 0.05	< 0.05	< 1	< 0.05	< 0.05	< 0.05	< 0.05	< 1	< 0.05	< 0.05	< 0.05	< 0.05
Atrazine-methoxy	0.1	ug/l	UK DWS	0											< 0.01		
Bromacil	0.1	ug/l	UK DWS	0	< 0.1	< 0.1	< 0.01		< 0.1	< 0.1	< 0.1	< 0.01		< 0.01	< 0.01		< 0.01
4-Nitrophenol	7.7	ug/l	FEQS	0	< 1	< 8	< 10	< 20	< 1		< 8	< 10	< 50	< 1	< 1	< 10	< 1
Hexachlorocyclopentadiene	50	ug/l	USEPA	0	< 1	< 8	< 10	< 20	< 1		< 8	< 10	< 50	< 1	< 1	< 10	< 1
Perylene	2	ug/l	FEQS	0													
n-Nitroso-n-dipropylamine	0.1	ug/l	UK DWS	0	< 1	< 8	< 10	< 20	< 1		< 8	< 10	< 50	< 1	< 1	< 10	< 1
Carbamates																	
Pirimicarb	100	ng/l	UK DWS	0	< 100	< 100	< 10		< 10	< 100	< 100	< 10		< 10	< 0.01		< 10
Carbetamide	100	ng/l	UK DWS	0	< 100	< 100	< 100		< 100	< 100	< 100	< 100		< 100	< 0.01		< 100
Phthalates																	
Bis(2-ethylhexyl)phthalate	8	ug/l	WHO	2	< 2	< 16	< 20	< 40	< 2		< 16	< 20	468	< 2	< 2	235	6.79
Di-n-octyl phthalate	20	ug/l	FEQS	0	< 5	< 40	< 50	< 100	< 5		< 40	< 50	< 250	< 5	< 5	< 50	< 5
Glycols																	
Rodenticides																	
Triazine Pesticides																	
Atrazine	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.04	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Simazine	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.04	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Prometryn	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.2	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	< 0.01	< 0.01	< 0.01	< 0.01
Propazine	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.2	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	< 0.01	< 0.01	< 0.01	< 0.01
Terbutryn	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.2	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	< 0.01	< 0.01	< 0.01	< 0.01
Acid herbicides esters																	
Acid Herbicides																	
2,3,6-TBA	0.1	ug/l	UK DWS	0	< 0.1	< 1	< 100		< 0.1	< 1	< 1	< 100		< 1	< 10		< 1
Benazolin	0.1	ug/l	UK DWS	0	< 0.05	< 0.05	< 2.5		< 0.05	< 0.05	< 0.05	< 2.5		< 0.05	< 0.5		< 0.05
Bromoxynil	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.5		< 0.01	< 0.01	< 0.01	< 0.5		< 0.01	< 0.1		< 0.01
Clopyralid	0.1	ug/l	UK DWS	0	< 0.03	< 0.3	< 1.5		< 0.03	< 0.03	< 0.3	< 1.5		< 0.03	< 0.3		< 0.03
Ioxynil	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.5		< 0.01	< 0.01	< 0.01	< 0.5		< 0.01	< 0.1		< 0.01
2,4,5-T	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.5		< 0.01	< 0.01	< 0.01	< 0.5		< 0.01	< 0.1		< 0.01
2,4,5-TP	0.1	ug/l	UK DWS	0	< 0.01	0.079	< 0.5		< 0.01	< 0.01	< 0.01	< 0.5		< 0.1	< 0.1		< 0.1
2,4-D	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.5		< 0.01	< 0.01	0.045	< 0.5		< 0.01	< 0.1		< 0.01
2,4-DB	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 1		< 0.02	< 0.02	< 0.02	< 1		< 0.02	< 0.2		< 0.02
Dicamba	0.1	ug/l	UK DWS	0	< 0.03	< 0.03	< 1.5		< 0.03	< 0.03	< 0.03	< 1.5		< 0.03	< 0.3		< 0.03
Dichlorprop	0.1	ug/l	UK DWS	3	0.167	0.042	< 0.5		< 0.01	< 0.01	< 0.01	< 0.5		< 0.01	< 0.1		0.015
MCPA	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.5		< 0.01	< 0.01	< 0.01	< 0.5		< 0.01	< 0.1		< 0.01
MCPB	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 1		< 0.02	< 0.02	< 0.02	< 1		< 0.02	< 0.2		< 0.02

Appendix G G5 Perched Groundwater Screening

Assessment Scenario

Water Abstraction

Lab Sample ID	Screening value	Units	Screening standard	Summary													
				Number of Exceedances	BH206	BH209	BH209	BH210	BH213	BH214	BH214	BH214	BH223	BH228	19507794	BH228	BH231
Client Sample No																	
Client Sample ID																	
Depth to Top					7.22	12.54	12.82	9.58	16.79	18.41	18.4	18.46	8.1	5.29	6.65	7.65	6.89
Depth to Bottom					8.15	12.54-13.35	13.33	not supplied	17.69	19.27	19.05	19.20	8.88	8.15	8.23	8.0	8.0
Date Sampled					15/08/2018	11/09/2018	08/10/2018	15/01/2019	16/08/2018	16/08/2018	12/09/2018	08/10/2018	15/01/2019	06/02/2019	07/03/2019	15/01/2019	06/02/2019
Sample Type					None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Mecoprop	0.1	ug/l	UK DWS	6	0.865	1.26	< 0.5		1.64	< 0.258	0.184	< 0.5		< 0.01	< 0.1		< 0.01
Picloram	0.1	ug/l	UK DWS	0	< 0.02	< 0.2	< 1		< 0.02	< 0.02	< 0.2	< 1		< 0.02	< 0.2		< 0.02
Organochlorine Pesticides																	
Aldrin	0.03	ug/l	UK DWS	0	< 0.01	< 0.2		< 0.2	< 0.01		< 0.01	< 0.01	< 0.02	< 0.01	< 0.01		< 0.01
alpha-HCH (alpha-BHC)	0.1	ug/l	UK DWS	0	< 0.01	< 0.2		< 0.2	< 0.01		< 0.01	< 0.01	< 0.02	< 0.01	< 0.01		< 0.01
beta-HCH (beta-BHC)	0.1	ug/l	UK DWS	0	< 0.01	< 0.2		< 0.2	< 0.01		< 0.01	< 0.01	< 0.02	< 0.01	< 0.01		< 0.01
delta-HCH (delta-BHC)	0.1	ug/l	UK DWS	0	< 0.01	< 0.2		< 0.2	< 0.01		< 0.01	< 0.01	< 0.02	< 0.01	< 0.01		< 0.01
Dieldrin	0.03	ug/l	UK DWS	1	< 0.01	2.09		< 0.2	< 0.01		< 0.01	< 0.01	< 0.02	< 0.01	< 0.01		< 0.01
Endosulfan	0.1	ug/l	UK DWS	0	< 0.01	< 0.2		< 0.2	< 0.01		< 0.01	< 0.01	< 0.02	< 0.01	< 0.01		< 0.01
Endosulfan	0.1	ug/l	UK DWS	0	< 0.02	< 0.4		< 0.4	< 0.02		< 0.02	< 0.02	< 0.04	< 0.02	< 0.02		< 0.02
Endosulfan Sulphate	0.1	ug/l	UK DWS	0	< 0.02	< 0.4		< 0.4	< 0.02		< 0.02	< 0.02	< 0.08	< 0.02	< 0.04		< 0.02
Endrin	0.1	ug/l	UK DWS	0	< 0.01	< 0.2		< 0.2	< 0.01		< 0.01	< 0.01	< 0.02	< 0.01	< 0.01		< 0.01
gamma-HCH (gamma-BHC)	0.1	ug/l	UK DWS	0	< 0.01	< 0.2		< 0.2	< 0.01		< 0.01	< 0.01	< 0.02	< 0.01	< 0.01		< 0.01
Heptachlor	0.03	ug/l	UK DWS	0	< 0.01	< 0.2		< 0.2	< 0.01		< 0.01	< 0.01	< 0.02	< 0.01	< 0.01		< 0.01
Heptachlor Epoxide	0.03	ug/l	UK DWS	0	< 0.01	< 0.2		< 0.2	< 0.01		< 0.01	< 0.01	< 0.02	< 0.01	< 0.01		< 0.01
Isodrin	0.1	ug/l	UK DWS	0	< 0.01	< 0.2		< 0.2	< 0.01		< 0.01	< 0.01	< 0.02	< 0.01	< 0.01		< 0.01
Methoxychlor	0.1	ug/l	UK DWS	0	< 0.01	< 0.2		< 0.2	< 0.01		< 0.01	< 0.01	< 0.04	< 0.01	< 0.01		< 0.01
o,p-DDE	0.1	ug/l	UK DWS	0	< 0.01	< 0.2		< 0.2	< 0.01		< 0.01	< 0.01	< 0.02	< 0.01	< 0.01		< 0.01
DDT	0.1	ug/l	UK DWS	0	< 0.01	< 0.2		< 0.2	< 0.01		< 0.01	< 0.01	< 0.02	< 0.01	< 0.01		< 0.01
o,p-TDE (o,p-DDD)	0.1	ug/l	UK DWS	1	< 0.01	0.316		< 0.2	< 0.01		< 0.01	< 0.01	< 0.02	< 0.01	< 0.01		< 0.01
p,p-DDE	0.1	ug/l	UK DWS	0	< 0.01	< 0.2		< 0.2	< 0.01		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01		< 0.01
DDT	0.1	ug/l	UK DWS	0	< 0.02	< 0.2		< 0.2	< 0.01		< 0.01	< 0.01	< 0.04	< 0.01	< 0.01		< 0.01
p,p-TDE (o,p-DDD)	0.1	ug/l	UK DWS	1	< 0.01	1.16		< 0.2	< 0.01		< 0.01	< 0.01	< 0.02	< 0.01	< 0.01		< 0.01
Trifluralin	0.1	ug/l	UK DWS	0	< 0.01	< 0.2		< 0.2	< 0.01		< 0.01	< 0.01	< 0.02	< 0.01	< 0.01		< 0.01
Organonitrogen pesticides																	
Bentazone	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.5		< 0.01	< 0.01	< 0.01	< 0.5		< 0.01	< 0.1		< 0.01
Fluroxypyr	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 1		< 0.02	< 0.02	0.045	< 1		< 0.02	< 0.2		< 0.02
Triclorpyr	0.1	ug/l	UK DWS	0	< 0.03	< 0.03	< 1.5		< 0.03	< 0.03	< 0.03	< 1.5		< 0.03	< 0.3		< 0.03
Organophosphorous pesticides																	
Azinphos-ethyl	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.08	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Azinphos-methyl	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.16	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Chlorfenvinphos	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.04	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Diazinon	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.04	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dichlorvos	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.04	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dimethoate	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.04	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
E-mevinphos	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.04	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Z-Mevinphos	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.04	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Ethion	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.04	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fenitrothion	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.04	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fenthion	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.04	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Malathion	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.04	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Parathion-ethyl	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.04	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Parathion-methyl	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.04	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Phenylurea herbicides																	
Isoproturon	100	ng/l	UK DWS	0	< 100	< 100	< 10		< 100	< 100	< 100	< 10		< 10	< 0.01		< 10
Chlortoluron	100	ng/l	UK DWS	0	< 100	< 100	< 10		< 100	< 100	< 100	< 10		< 10	< 0.01		< 10
Diflufenzuron	100	ng/l	UK DWS	0	< 200	< 200	< 20		< 200	< 200	< 200	< 20		< 20	< 0.02		< 20
Diuron	100	ng/l	UK DWS	1	< 100	< 100	< 10		< 100	< 100	< 100	< 10		17	18		29
Linuron	100	ng/l	UK DWS	0	< 200	< 200	< 20		< 200	< 200	< 200	< 20		< 20	< 0.02		< 20
Methabenzthiazuron	100	ng/l	UK DWS	0	< 100	< 100	< 10		< 100	< 100	< 100	< 10		< 10	< 0.01		< 10

Appendix G G5 Perched Groundwater Screening

Assessment Scenario

Water Abstraction

Lab Sample ID	Screening value	Units	Screening standard	Summary													
				Number of Exceedances	BH206	BH209	BH209	BH210	BH213	BH214	BH214	BH214	BH223	BH228	19507794 BH228	BH231	BH231
Client Sample No																	
Client Sample ID																	
Depth to Top					7.22	12.54	12.82	9.58	16.79	18.41	18.4	18.46	8.1	5.29	6.65	7.65	6.89
Depth to Bottom					8.15	12.54-13.35	13.33	not supplied	17.69	19.27	19.05	19.20	8.88	8.15	8.23	8.0	8.0
Date Sampled					15/08/2018	11/09/2018	08/10/2018	15/01/2019	16/08/2018	16/08/2018	12/09/2018	08/10/2018	15/01/2019	06/02/2019	07/03/2019	15/01/2019	06/02/2019
Sample Type					None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Monolinuron	100	ng/l	UK DWS	0	< 200	< 200	< 20		< 200	< 200	< 200	< 20		< 20	< 0.02		< 20
Monuron	100	ng/l	UK DWS	3	< 200	< 200	112		< 200	< 200	< 200	< 20		< 20	< 20		< 20
VFAs																	
Acetic acid	0.01	mg/l	Default	0	< 10	< 10		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Propanoic acid	0.01	mg/l	Default	0	< 10	< 10		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Butyric acid	0.01	mg/l	Default	0	< 10	< 10		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Isobutyric acid	0.01	mg/l	Default	0	< 10	< 10		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Pentanoic acid	0.01	mg/l	Default	0	< 10	< 10		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Isopentanoic acid	0.01	mg/l	Default	0	< 10	< 10		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Hexanoic acid	0.01	mg/l	Default	0	< 10	< 10		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Heptanoic acid	0.01	mg/l	Default	0	< 11	< 11		< 11	< 11	< 11	< 11	< 11	< 11	< 11	< 11	< 11	< 11
Pyrethroids																	
Cyfluthrin	0.1	ug/l	UK DWS	0	< 0.05	< 0.05	< 0.05	< 1	< 0.05	< 0.05	< 0.05	< 0.05	< 1	< 0.05	< 0.05	< 0.05	< 0.05
Cypermethrin	100	ng/l	UK DWS	0	< 50	< 50	< 50	< 1000	< 50	< 50	< 50	< 50	< 1000	< 50	< 0.05	< 50	< 50
Deltramethrin	0.1	ug/l	UK DWS	0	< 0.05	< 0.05	< 0.05	< 1	< 0.05	< 0.05	< 0.05	< 0.05	< 1	< 0.05	< 0.05	< 0.05	< 0.05
Permethrin	0.1	ug/l	UK DWS	0	< 0.01	< 0.2		< 0.2	< 0.01		< 0.01	< 0.01	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01
Permethrin	0.1	ug/l	UK DWS	0	< 0.01	< 0.2		< 0.2	< 0.01		< 0.01	< 0.01	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01
Organotins																	
Tributyltin compounds	0.2	ng/l	FEQS	5	< 3	< 6	< 30		< 1	< 30	8.05	< 30		< 1	< 1		< 6
TPT (Triphenyl Tin)	0.2	ng/l	FEQS	0	< 3	< 6	< 30		< 1	< 30	< 6	< 30		< 1	< 1		< 6
DBT (Dibutyl Tin)	0.2	ng/l	FEQS	2	< 15	40	< 150		< 5	< 150	< 30	< 150		< 5	< 5		< 30
Chlorophenols																	
Pentachlorophenol	0.0004	mg/l	FEQS	0	< 0.001	< 0.008	< 0.01	< 0.02	< 0.001		< 0.008	< 0.01	< 0.05	< 0.001	< 1	< 0.01	< 0.001
Others																	
Bromoform	0.1	mg/l	WHO	0	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 1	< 0.001	< 0.001
Carbon Tetrachloride	0.003	mg/l	UK DWS	0	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		< 0.001	< 0.001
Lambda-cyhalothrin	0.1	ug/l	UK DWS	0	< 0.05	< 0.05	< 0.05	< 1	< 0.05	< 0.05	< 0.05	< 0.05	< 1	< 0.05		< 0.05	< 0.05
Methane	N/A	ug/l	-	0	2910	8760	1370		17200	4320	621	2330		4600	< 1		4580

Appendix G

G5 Perched Groundwater Screening

Assessment Scenario

Water Abstraction

				Summary									
Lab Sample ID	Screening value	Units	Screening standard	Number of Exceedances	BWS212	BWS212	BWS217	BWS217	WS224	19507816			
Client Sample No													WS224
Client Sample ID													
Depth to Top													
Depth to Bottom													
Date Sampled													
Sample Type									None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Inorganics													
Organics													
General inorganics													
pH	N/A	pH units	-		7.44	7.54	7.95	8.02	7.8	7.75			
Total Cyanide	50	ug/l	UK DWS	1	< 50	< 50	< 50	< 50	< 50	< 50			
Complex Cyanides	50	ug/l	UK DWS	1	< 50	< 50	< 50	< 50	< 50	< 50			
Free Cyanide	50	ug/l	UK DWS	0	< 50	< 50	< 50	< 50	< 50	< 50			
Thiocyanate as SCN	50	ug/l	UK DWS	3	< 50	< 50	< 50	< 50	< 50	< 50			
Sulphate as SO4	250000	ug/l	UK DWS	2	< 2000	5400	159000	239000	37000	30000			
Sulphide	250000	ug/l	UK DWS	0	360	524	< 10	< 10	155	149			
Chloride	250	mg/l	UK DWS	12	286	313	295	262	135	125			
Fluoride	1500	ug/l	UK DWS	0	731	868	664	605	< 500	< 500			
Ammoniacal Nitrogen as N	390	ug/l	UK DWS	17	18900	19100	2110	1800	37200	25600			
Nitrate as NO3	50	mg/l	UK DWS	0	< 0.3	< 0.3	< 0.3	10.3	< 0.3	< 0.3			
Nitrite as NO2	500	ug/l	UK DWS	0	< 50	61	< 50	198	< 50	< 50			
Alkalinity	N/A	mg/l	-	0	759	654	160	165	585	545			
Chemical Oxygen Demand (COD)	N/A	mg/l	-	0	103	106	85.2	45.5	221	401			
Biological Oxygen Demand (BOD)	N/A	mg/l	-	0	2.25	< 1.5	2.19	< 1	55	89.5			
Total Oxidised N (Nitrate/-ite)	11.3	mg/l	UK DWS	0	< 0.1	< 0.1	< 0.1	2.4	< 0.1	< 0.1			
Total Suspended Solids	N/A	mg/l	-	0	402	150	569	160	141	112			
Hardness - Total	N/A	mg/l	-	0	1170	1040	527	879	2990	-			
Bromide	N/A	mg/l	-	0	0.897	0.857	0.756	0.405	3.73	3.87			
Bromate	0.01	mg/l	UK DWS	2	< 0.005	< 0.005	< 0.005	< 0.005	0.0109	0.0171			
Phenols													
Cresols	100	ug/l	FEQS	1	< 6	< 6	< 6	< 6	50	190			
Isopropylphenol	7.7	ug/l	FEQS	1	< 6	< 6	< 6	< 6	< 6	550			
Phenol	7.7	ug/l	FEQS	3	< 2	< 2	< 2	< 2	20	30			
Trimethylphenol	100	ug/l	FEQS	0	< 3	< 3	< 3	< 3	< 3	90			
Speciated PAHs													
Naphthalene	2	ug/l	FEQS	3	1.13	0.0912	0.705	0.141		6710			
Acenaphthylene	2	ug/l	FEQS	0	0.173	0.0438	0.0432	0.628		< 0.5			
Acenaphthene	2000	ug/l	USEPA	0	2.98	2.01	1.65	0.84		1210			
Fluorene	2	ug/l	FEQS	4	1.92	0.193	1.03	0.619		962			
Phenanthrene	2	ug/l	FEQS	7	3.08	0.101	1.31	3.88		4270			
Anthracene	0.1	ug/l	FEQS	11	0.952	0.0841	0.336	1.32		996			
Fluoranthene	0.0063	ug/l	FEQS	17	7.05	1.37	1.44	10.6		3050			
Pyrene	2	ug/l	FEQS	8	5.98	1.16	1.19	9.83		2370			
Benzo(a)anthracene	2	ug/l	FEQS	8	2.99	0.378	0.402	4.87		691			
Chrysene	2	ug/l	FEQS	8	2.55	0.343	0.355	3.97		533			
Benzo(b)fluoranthene	0.1	ug/l	UK DWS	14	6.23	0.447	0.654	9.23		769			
Benzo(k)fluoranthene	0.1	ug/l	UK DWS	13	2.37	0.143	0.304	2.66		468			
Benzo(a)pyrene	0.01	ug/l	UK DWS	16	4.4	0.323	0.509	7.24		644			
Indeno(1,2,3-cd)pyrene	0.1	ug/l	UK DWS	13	2.61	0.199	0.292	5.24		264			
Dibenzo(a,h)anthracene	2	ug/l	FEQS	1	0.674	0.0424	0.0671	1.25		55.1			
Benzo(g,h,i)perylene	0.1	ug/l	UK DWS	13	3.54	0.28	0.411	5.86		332			
Heavy metals and metalloids													
Antimony	5	ug/l	UK DWS	0	< 1	< 1	< 1	< 1	1.06	< 1			
Arsenic	10	ug/l	UK DWS	6	3.62	2.99	4.3	1.6	4.26	2.89			
Barium	700	ug/l	WHO	5	486	487	71	86.1	204	239			
Beryllium	4	ug/l	USEPA	0	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1			
Boron	1000	ug/l	UK DWS	9	579	586	123	139	529	506			

Appendix G G5 Perched Groundwater Screening

Assessment Scenario

Water Abstraction

Lab Sample ID	Screening value	Units	Screening standard	Summary							
				Number of Exceedances		BWS212	BWS212	BWS217	BWS217	WS224	19507816 WS224
Client Sample No											
Client Sample ID											
Depth to Top						3.64	3.64	3.17	2.97	4.37	4.3
Depth to Bottom						4.45	4.46	4.95	4.95	4.91	4.93
Date Sampled						10/09/2018	08/10/2018	14/01/2019	07/02/2019	06/02/2019	07/03/2019
Sample Type						None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Cadmium >200mg/l CaCO3	5	ug/l	UK DWS	0	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08
Calcium	N/A	mg/l	-	0	293	298	185	209	66.5	82.4	
Chromium VI	3.4	ug/l	FEQS	0	< 30	< 30	< 30	< 30	< 30	< 0.03	
Chromium III	4.7	ug/l	FEQS	0	< 30	< 30	< 30	< 30	< 30	< 0.03	
Chromium Total	50	ug/l	UK DWS	0	2.59	1.38	< 1	< 1	1.88	2.82	
Copper (bioavailable), DOC <1mg/l	2000	ug/l	UK DWS	0	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	
Iron	0.2	mg/l	UK DWS	17	5.36	4.63	0.0345	0.0295	0.276	0.342	
Lead	10	ug/l	UK DWS	1	< 0.2	< 0.2	< 0.2	0.201	< 0.2	< 0.2	
Magnesium	N/A	mg/l	-	0	11.3	11.1	3.1	3.48	7.24	7.9	
Manganese (bioavailable)	50	ug/l	UK DWS	19	1240	1220	386	280	113	131	
Mercury	1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	
Molybdenum	70	ug/l	WHO	0	< 3	< 3	11.4	10.5	9.18	4	
Nickel >200 mg/l CaCO3	20	ug/l	UK DWS	10	2.35	1.96	1.91	2	10.7	8.31	
Potassium	N/A	mg/l	-	0	34.5	33.8	4.51	5.19	13.9	13	
Selenium	10	ug/l	UK DWS	0	< 1	< 1	< 1	< 1	< 1	< 1	
Sodium	50	mg/l	WHO	19	91.5	87.4	100	106	244	201	
Vanadium	20	ug/l	FEQS	0	2.68	2.46	< 1	< 1	1.9	1.83	
Zinc >250 mg/l CaCO3	5000	ug/l	USEPA	0	1.09	8.73	< 1	3.88	1.17	7.24	
Monoaromatics											
Benzene	1	ug/l	UK DWS	7	< 1	1.36	< 1	< 1	11	11.4	
Toluene	74	ug/l	FEQS	2	< 1	< 1	< 1	< 1	401	541	
Ethylbenzene	20	ug/l	FEQS	3	< 1	< 1	< 1	< 1	415	364	
Xylenes	30	ug/l	FEQS	6	8.6	7.14	< 2	< 2	3170	2280	
MTBE	15	ug/l	WHO	0	< 1	< 1	< 1	< 1	< 1	< 1	
Petroleum hydrocarbons											
TPH >C5-C6 Aliphatics	15000	ug/l	WHO	0	< 10	< 10	< 10	< 10	14	18	
TPH >C6-C8 Aliphatics	15000	ug/l	WHO	0	< 10	< 10	< 10	< 10	282	330	
TPH >C8-C10 Aliphatics	300	ug/l	WHO	3	< 10	< 10	< 10	< 10	3390	4120	
TPH >C10-C12 Aliphatics	300	ug/l	WHO	4	< 10	< 10	< 10	< 10	3640	4510	
TPH >C12-C16 Aliphatics	300	ug/l	WHO	4	37	< 10	< 10	23		17700	
TPH >C16-C21 Aliphatics	300	ug/l	WHO	6	124	< 10	73	216		74300	
TPH >C21-C35 Aliphatics	300	ug/l	WHO	12	523	38	535	1820		329000	
TPH-CWG - Aliphatic >C16 - C35	300	ug/l	WHO	12	647	38	608	2040			
C5-C35 Aliphatics	N/A	ug/l	-	0						545000	
TPH >C5-C6 Aromatics	10	ug/l	WHO	1	< 10	< 10	< 10	< 10	< 10	11	
TPH >C7-C8 Aromatics	700	ug/l	WHO	0	< 10	< 10	< 10	< 10	384	531	
TPH >C8-C9 Aromatics	300	ug/l	WHO	0							
TPH >C9-C10 Aromatics	300	ug/l	WHO	0							
TPH >C8-C10 Aromatics	300	ug/l	WHO	3	10	< 10	< 10	< 10	4240	5150	
TPH >C10-C12 Aromatics	90	ug/l	WHO	4	< 10	< 10	< 10	< 10	2420	3010	
TPH >C12-C16 Aromatics	90	ug/l	WHO	4	17	< 10	< 10	17		5760	
TPH >C16-C21 Aromatics	90	ug/l	WHO	7	73	< 10	15	82		16300	
TPH >C21-C35 Aromatics	90	ug/l	WHO	10	212	< 10	< 10	360		84200	
TPH >C35-C44 Aromatics	90	ug/l	WHO	0							
C5-C35 Aromatics	N/A	ug/l	-	0							
VOCs											
Chloromethane	20	ug/l	FEQS	0	< 1	< 1	< 1	< 1	< 1	< 1	
Chloroethane	3	ug/l	UK DWS	2	< 1	< 1	< 1	< 1	3.04	3.63	
Bromomethane	100	ug/l	UK DWS	0	< 1	< 1	< 1	< 1	< 1	< 1	
Vinyl Chloride	0.5	ug/l	UK DWS	2	< 1	< 1	< 1	< 1	6.7	7.04	

Appendix G G5 Perched Groundwater Screening

Assessment Scenario

Water Abstraction

Lab Sample ID	Screening value	Units	Screening standard	Summary							
				Number of Exceedances		BWS212	BWS212	BWS217	BWS217	WS224	19507816 WS224
Client Sample No											
Client Sample ID											
Depth to Top						3.64	3.64	3.17	2.97	4.37	4.3
Depth to Bottom						4.45	4.46	4.95	4.95	4.91	4.93
Date Sampled						10/09/2018	08/10/2018	14/01/2019	07/02/2019	06/02/2019	07/03/2019
Sample Type						None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
1,2,3-Trichloropropane	40	ug/l	WHO	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3,5-Trichlorobenzene	0.4	ug/l	FEQS	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromochloromethane	100	ug/l	WHO	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dichloromethane	20	ug/l	FEQS	0	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Carbon disulphide	10	ug/l	Default	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dichlorodifluoromethane	20	ug/l	FEQS	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1
SVOCs											
Phenol	7.7	ug/l	FEQS	0	< 5	< 50	< 2	< 4	< 10	< 100	< 100
2-Chlorophenol	50	ug/l	FEQS	0	< 5	< 50	< 2	< 4	< 10	< 100	< 100
Bis(2-chloroethyl)ether	1000	ug/l	USEPA	0	< 5	< 50	< 2	< 4	< 10	< 100	< 100
Bis(2-chloroisopropyl)ether	1000	ug/l	USEPA	0							
2-Methylphenol	100	ug/l	FEQS	0	< 5	< 50	< 2	< 4	< 10	< 100	< 100
Hexachloroethane	40	ug/l	USEPA	0	< 5	< 50	< 2	< 4	< 10	< 100	< 100
Nitrobenzene	1	ug/l	UK DWS	0	< 5	< 50	< 2	< 4	< 10	< 100	< 100
4-Methylphenol	100	ug/l	FEQS	0	< 5	< 50	< 2	< 4	< 10	< 100	< 100
Isophorone	7000	ug/l	USEPA	0	< 5	< 50	< 2	< 4	< 10	< 100	< 100
2-Nitrophenol	7.7	ug/l	FEQS	0	< 5	< 50	< 2	< 4	< 10	< 100	< 100
2,4-Dimethylphenol	100	ug/l	FEQS	0	< 5	< 50	< 2	< 4	22.4	< 100	< 100
Bis(2-chloroethoxy)methane	10	ug/l	Default	0	< 5	< 50	< 2	< 4	< 10	< 100	< 100
2,4-Dichlorophenol	4.2	ug/l	FEQS	0	< 5	< 50	< 2	< 4	< 10	< 100	< 100
4-Chloro-3-methylphenol	40	ug/l	FEQS	0	< 5	< 50	< 2	< 4	< 10	< 100	< 100
2,4,6-trichlorophenol	200	ug/l	WHO	0	< 5	< 50	< 2	< 4	< 10	< 100	< 100
2,4,5-Trichlorophenol	200	ug/l	WHO	0	< 5	< 50	< 2	< 4	< 10	< 100	< 100
2-Methylnaphthalene	2	ug/l	FEQS	1	< 5	< 50	< 2	< 4	< 10	< 100	< 100
2-Chloronaphthalene	2	ug/l	FEQS	0	< 5	< 50	< 2	< 4	< 10	< 100	< 100
Dimethylphthalate	800	ug/l	FEQS	0	< 5	< 50	< 2	< 4	< 10	< 100	< 100
2,6-Dinitrotoluene	100	ug/l	USEPA	0	< 5	< 50	< 2	< 4	< 10	< 100	< 100
2,4-Dinitrotoluene	100	ug/l	USEPA	0	< 5	< 50	< 2	< 4	< 10	< 100	< 100
Dibenzofuran	2	ug/l	FEQS	0	< 5	< 50	< 2	< 4	< 10	< 100	< 100
Diethyl phthalate	200	ug/l	FEQS	0	< 5	< 50	< 2	< 4	< 10	< 100	< 100
Bromophenyl phenyl ether	10	ug/l	Default	0	< 5	< 50	< 2	< 4	< 10	< 100	< 100
Hexachlorobenzene	1	ug/l	USEPA	0	< 5	< 50	< 2	< 4	< 10	< 100	< 100
Phenanthrene	2	ug/l	FEQS	7	3.08	0.101	1.31	3.88		4270	
Carbazole	2	ug/l	FEQS	1	< 5	< 50	< 2	< 4	< 10	< 100	< 100
Di-n-butyl phthalate	8	ug/l	FEQS	3	< 5	< 50	< 2	< 4	< 10	< 100	< 100
Butyl benzyl phthalate	7.5	ug/l	FEQS	4	< 5	< 50	< 2	< 4	47.5	< 100	< 100
PCBs by GC-ECD - WHO 12											
PCB Congener 77	25	ug/l	FEQS	0	< 0.015	< 0.015	< 0.015	< 0.015		< 0.015	< 0.015
PCB Congener 81	25	ug/l	FEQS	0	< 0.015	< 0.015	< 0.015	< 0.015		< 0.015	< 0.015
PCB Congener 105	25	ug/l	FEQS	0	< 0.015	< 0.015	< 0.015	< 0.015		< 0.015	< 0.015
PCB Congener 114	25	ug/l	FEQS	0	< 0.015	< 0.015	< 0.015	< 0.015		< 0.015	< 0.015
PCB Congener 118	25	ug/l	FEQS	0	< 0.015	< 0.015	< 0.015	< 0.015		< 0.015	< 0.015
PCB Congener 123	25	ug/l	FEQS	0	< 0.015	< 0.015	< 0.015	< 0.015		< 0.015	< 0.015
PCB Congener 126	25	ug/l	FEQS	0	< 0.015	< 0.015	< 0.015	< 0.015		< 0.015	< 0.015
PCB Congener 156	25	ug/l	FEQS	0	< 0.015	< 0.015	< 0.015	< 0.015		< 0.015	< 0.015
PCB Congener 157	25	ug/l	FEQS	0	< 0.015	< 0.015	< 0.015	< 0.015		< 0.015	< 0.015
PCB Congener 167	25	ug/l	FEQS	0	< 0.015	< 0.015	< 0.015	< 0.015		< 0.015	< 0.015
PCB Congener 169	25	ug/l	FEQS	0	< 0.015	< 0.015	< 0.015	< 0.015		< 0.015	< 0.015
PCB Congener 189	25	ug/l	FEQS	0	< 0.015	< 0.015	< 0.015	< 0.015		< 0.015	< 0.015
PCBs	25	ug/l	FEQS	0							
Environmental Forensics											

Appendix G G5 Perched Groundwater Screening

Assessment Scenario

Water Abstraction

Lab Sample ID	Screening value	Units	Screening standard	Summary							
				Number of Exceedances		BWS212	BWS212	BWS217	BWS217	WS224	19507816 WS224
Client Sample No											
Client Sample ID											
Depth to Top						3.64	3.64	3.17	2.97	4.37	4.3
Depth to Bottom						4.45	4.46	4.95	4.95	4.91	4.93
Date Sampled						10/09/2018	08/10/2018	14/01/2019	07/02/2019	06/02/2019	07/03/2019
Sample Type						None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
PFOS	0.3	ug/l	DWS	2		0.0297	0.0293	0.0615	0.0543	0.115	1.73
PFOS	0.3	ug/l	DWS	0							
PFOA	0.3	ug/l	DWS	0		0.00756	0.00939	0.0213	0.0136	0.014	0.0199
Chloroxuron	0.1	ug/l	UK DWS	0		< 0.1	< 0.01	< 0.01	< 0.01	< 0.1	< 0.1
Chlorpropham	0.1	ug/l	UK DWS	0		< 0.5	< 0.05	< 0.05	< 0.05	< 0.5	< 0.5
Ethiofencarb	0.1	ug/l	UK DWS	0		< 0.2	< 0.02	< 0.02	< 0.02	< 0.2	< 0.2
Phenmedipham	0.1	ug/l	UK DWS	0							
Propham	0.1	ug/l	UK DWS	0		< 0.5	< 0.05	< 0.05	< 0.05	< 0.5	< 0.5
Dimefuron	0.1	ug/l	UK DWS	0		< 0.2	< 0.02	< 0.02	< 0.02	< 0.2	< 0.2
Metoxuron	0.1	ug/l	UK DWS	0		< 0.1	< 0.01	< 0.01	< 0.01	< 0.1	< 0.1
Pencycuron	0.1	ug/l	UK DWS	0		< 0.2	< 0.02	< 0.02	< 0.02	< 0.2	< 0.2
o,p-Methoxychlor	0.1	ug/l	UK DWS	0		< 0.2	< 0.02	< 0.01	< 0.01	< 0.01	< 0.2
Demeton-s-methyl	0.1	ug/l	UK DWS	0		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Diclofop	0.1	ug/l	UK DWS	0		< 0.02	< 1	< 0.02	< 0.02	< 0.02	< 0.2
Fenvalerate	0.1	ug/l	UK DWS	0							
Cyhalothrin	0.1	ug/l	UK DWS	0		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Atrazine-methoxy	0.1	ug/l	UK DWS	0							< 0.01
Bromacil	0.1	ug/l	UK DWS	0		< 0.1	< 0.01	< 0.01	< 0.01	< 0.1	< 0.1
4-Nitrophenol	7.7	ug/l	FEQS	0		< 5	< 50	< 2	< 4	< 10	< 100
Hexachlorocyclopentadiene	50	ug/l	USEPA	0		< 5	< 50	< 2	< 4	< 10	< 100
Perylene	2	ug/l	FEQS	0							
n-Nitroso-n-dipropylamine	0.1	ug/l	UK DWS	0		< 5	< 50	< 2	< 4	< 10	< 100
Carbamates											
Pirimicarb	100	ng/l	UK DWS	0		< 100	< 10	< 10	< 10	< 100	< 0.1
Carbetamide	100	ng/l	UK DWS	0		< 100	< 100	< 100	< 100	< 100	< 0.1
Phthalates											
Bis(2-ethylhexyl)phthalate	8	ug/l	WHO	2		< 10	< 100	< 4	< 8	< 20	< 200
Di-n-octyl phthalate	20	ug/l	FEQS	0		< 25	< 250	< 10	< 20	< 50	< 500
Glycols											
Rodenticides											
Triazine Pesticides											
Atrazine	0.1	ug/l	UK DWS	0		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Simazine	0.1	ug/l	UK DWS	0		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Prometryn	0.1	ug/l	UK DWS	0		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1
Propazine	0.1	ug/l	UK DWS	0		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1
Terbutryn	0.1	ug/l	UK DWS	0		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1
Acid herbicides esters											
Acid Herbicides											
2,3,6-TBA	0.1	ug/l	UK DWS	0		< 5	< 100	< 1	< 1	< 1	< 10
Benazolin	0.1	ug/l	UK DWS	0		< 0.05	< 2.5	< 0.05	< 0.05	< 0.05	< 0.5
Bromoxynil	0.1	ug/l	UK DWS	0		< 0.01	< 0.5	< 0.01	< 0.01	< 0.01	< 0.1
Clopyralid	0.1	ug/l	UK DWS	0		< 0.3	< 1.5	< 0.03	< 0.03	< 0.03	< 0.3
Ioxynil	0.1	ug/l	UK DWS	0		< 0.01	< 0.5	< 0.01	< 0.01	< 0.01	< 0.1
2,4,5-T	0.1	ug/l	UK DWS	0		< 0.01	< 0.5	< 0.01	< 0.01	0.016	< 0.1
2,4,5-TP	0.1	ug/l	UK DWS	0		< 0.01	< 0.5	< 0.1	< 0.1	< 0.1	< 0.1
2,4-D	0.1	ug/l	UK DWS	0		< 0.01	< 0.5	< 0.01	< 0.01	0.064	< 0.1
2,4-DB	0.1	ug/l	UK DWS	0		< 0.02	< 1	< 0.02	< 0.02	< 0.02	< 0.2
Dicamba	0.1	ug/l	UK DWS	0		< 0.03	< 1.5	< 0.03	< 0.03	< 0.03	< 0.3
Dichlorprop	0.1	ug/l	UK DWS	3		< 0.01	< 0.5	< 0.01	< 0.01	0.363	0.219
MCPA	0.1	ug/l	UK DWS	0		< 0.01	< 0.5	< 0.01	< 0.01	0.037	< 0.1
MCPB	0.1	ug/l	UK DWS	0		< 0.02	< 1	< 0.02	< 0.02	< 0.2	< 0.2

Appendix G G5 Perched Groundwater Screening

Assessment Scenario

Water Abstraction

Lab Sample ID	Screening value	Units	Screening standard	Summary							
				Number of Exceedances		BWS212	BWS212	BWS217	BWS217	WS224	19507816 WS224
Client Sample No											
Client Sample ID											
Depth to Top						3.64	3.64	3.17	2.97	4.37	4.3
Depth to Bottom						4.45	4.46	4.95	4.95	4.91	4.93
Date Sampled						10/09/2018	08/10/2018	14/01/2019	07/02/2019	06/02/2019	07/03/2019
Sample Type						None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Mecoprop	0.1	ug/l	UK DWS	6		0.045	< 0.5	0.094	0.032	0.254	0.132
Picloram	0.1	ug/l	UK DWS	0		< 0.2	< 1	< 0.2	< 0.02	< 0.02	< 0.2
Organochlorine Pesticides											
Aldrin	0.03	ug/l	UK DWS	0		< 0.2	< 0.02	< 0.01	< 0.01	< 0.01	< 0.2
alpha-HCH (alpha-BHC)	0.1	ug/l	UK DWS	0		< 0.2	< 0.02	< 0.01	< 0.01	< 0.01	< 0.2
beta-HCH (beta-BHC)	0.1	ug/l	UK DWS	0		< 0.2	< 0.02	< 0.01	< 0.01	< 0.01	< 0.2
delta-HCH (delta-BHC)	0.1	ug/l	UK DWS	0		< 0.2	< 0.02	< 0.01	< 0.01	< 0.01	< 0.2
Dieldrin	0.03	ug/l	UK DWS	1		< 0.2	< 0.02	< 0.01	< 0.01	< 0.01	< 0.2
Endosulfan	0.1	ug/l	UK DWS	0		< 0.2	< 0.02	< 0.01	< 0.01	< 0.01	< 0.2
Endosulfan	0.1	ug/l	UK DWS	0		< 0.4	< 0.04	< 0.02	< 0.02	< 0.02	< 0.4
Endosulfan Sulphate	0.1	ug/l	UK DWS	0		< 0.4	< 0.04	< 0.02	< 0.02	< 0.02	< 0.4
Endrin	0.1	ug/l	UK DWS	0		< 0.2	< 0.02	< 0.01	< 0.01	< 0.01	< 0.2
gamma-HCH (gamma-BHC)	0.1	ug/l	UK DWS	0		< 0.2	< 0.02	< 0.01	< 0.01	< 0.01	< 0.2
Heptachlor	0.03	ug/l	UK DWS	0		< 0.2	< 0.02	< 0.01	< 0.01	< 0.01	< 0.2
Heptachlor Epoxide	0.03	ug/l	UK DWS	0		< 0.2	< 0.02	< 0.01	< 0.01	< 0.01	< 0.2
Isodrin	0.1	ug/l	UK DWS	0		< 0.2	< 0.02	< 0.01	< 0.01	< 0.01	< 0.2
Methoxychlor	0.1	ug/l	UK DWS	0		< 0.2	< 0.02	< 0.01	< 0.01	< 0.01	< 0.2
o,p-DDE	0.1	ug/l	UK DWS	0		< 0.2	< 0.02	< 0.01	< 0.01	< 0.01	< 0.2
DDT	0.1	ug/l	UK DWS	0		< 0.2	< 0.02	< 0.01	< 0.01	< 0.01	< 0.2
o,p-TDE (o,p-DDD)	0.1	ug/l	UK DWS	1		< 0.2	< 0.02	< 0.01	< 0.01	< 0.01	< 0.2
p,p-DDE	0.1	ug/l	UK DWS	0		< 0.2	< 0.02	< 0.01	< 0.01	< 0.01	< 0.2
DDT	0.1	ug/l	UK DWS	0		< 0.2	< 0.02	< 0.01	< 0.01	< 0.01	< 0.2
p,p-TDE (o,p-DDD)	0.1	ug/l	UK DWS	1		< 0.2	< 0.02	< 0.01	< 0.01	< 0.01	< 0.2
Trifluralin	0.1	ug/l	UK DWS	0		< 0.2	< 0.02	< 0.01	< 0.01	< 0.01	< 0.2
Organonitrogen pesticides											
Bentazone	0.1	ug/l	UK DWS	0		< 0.01	< 0.5	< 0.01	< 0.01	< 0.01	< 0.1
Fluroxypyr	0.1	ug/l	UK DWS	0		< 0.02	< 1	< 0.02	< 0.02	0.034	< 0.2
Triclorpyr	0.1	ug/l	UK DWS	0		< 0.03	< 1.5	< 0.03	< 0.03	0.089	< 0.3
Organophosphorous pesticides											
Azinphos-ethyl	0.1	ug/l	UK DWS	0		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Azinphos-methyl	0.1	ug/l	UK DWS	0		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Chlorfenvinphos	0.1	ug/l	UK DWS	0		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Diazinon	0.1	ug/l	UK DWS	0		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.2
Dichlorvos	0.1	ug/l	UK DWS	0		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dimethoate	0.1	ug/l	UK DWS	0		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
E-mevinphos	0.1	ug/l	UK DWS	0		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Z-Mevinphos	0.1	ug/l	UK DWS	0		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Ethion	0.1	ug/l	UK DWS	0		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fenitrothion	0.1	ug/l	UK DWS	0		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fenthion	0.1	ug/l	UK DWS	0		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Malathion	0.1	ug/l	UK DWS	0		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Parathion-ethyl	0.1	ug/l	UK DWS	0		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Parathion-methyl	0.1	ug/l	UK DWS	0		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Phenylurea herbicides											
Isoproturon	100	ng/l	UK DWS	0		< 100	< 10	< 10	< 10	< 100	< 0.1
Chlortoluron	100	ng/l	UK DWS	0		< 100	< 10	< 10	< 10	< 100	< 0.1
Diflubenzuron	100	ng/l	UK DWS	0		< 200	< 20	< 20	< 20	< 200	< 0.2
Diuron	100	ng/l	UK DWS	1		< 100	15	130	86	< 100	< 100
Linuron	100	ng/l	UK DWS	0		< 200	< 20	< 20	< 20	< 200	< 0.2
Methabenzthiazuron	100	ng/l	UK DWS	0		< 100	< 10	< 10	< 10	< 100	< 0.1

Appendix G G5 Perched Groundwater Screening

Assessment Scenario

Water Abstraction

					Summary								
Lab Sample ID	Screening value	Units	Screening standard	Number of Exceedances	BWS212	BWS212	BWS217	BWS217	WS224	19507816			
Client Sample No												WS224	
Client Sample ID													
Depth to Top													
Depth to Bottom													
Date Sampled													
Sample Type									None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Monolinuron	100	ng/l	UK DWS	0	< 200	< 20	< 20	< 20	< 200	< 0.2			
Monuron	100	ng/l	UK DWS	3	205	225	86	54	< 200	<200			
VFAs													
Acetic acid	0.01	mg/l	Default	0	< 10	< 10	< 10	< 10	< 10	< 10			
Propanoic acid	0.01	mg/l	Default	0	< 10	< 10	< 10	< 10	< 10	< 10			
Butyric acid	0.01	mg/l	Default	0	< 10	< 10	< 10	< 10	< 10	< 10			
Isobutyric acid	0.01	mg/l	Default	0	< 10	< 10	< 10	< 10	< 10	< 10			
Pentanoic acid	0.01	mg/l	Default	0	< 10	< 10	< 10	< 10	< 10	< 10			
Isopentanoic acid	0.01	mg/l	Default	0	< 10	< 10	< 10	< 10	< 10	< 10			
Hexanoic acid	0.01	mg/l	Default	0	< 10	< 10	< 10	< 10	< 10	< 10			
Heptanoic acid	0.01	mg/l	Default	0	< 11	< 11	< 11	< 11	< 11	< 11			
Pyrethroids													
Cyfluthrin	0.1	ug/l	UK DWS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			
Cypermethrin	100	ng/l	UK DWS	0	< 50	< 50	< 50	< 50	< 50	< 0.05			
Deltramethrin	0.1	ug/l	UK DWS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			
Permethrin	0.1	ug/l	UK DWS	0	< 0.2	< 0.02	< 0.01	< 0.01	< 0.01	< 0.2			
Permethrin	0.1	ug/l	UK DWS	0	< 0.2	< 0.02	< 0.01	< 0.01	< 0.01	< 0.2			
Organotins													
Tributyltin compounds	0.2	ng/l	FEQS	5	4.52	5.49	< 1	32.4		355			
TPT (Triphenyl Tin)	0.2	ng/l	FEQS	0	< 1	< 1	< 1	< 6		< 6			
DBT (Dibutyl Tin)	0.2	ng/l	FEQS	2	< 5	< 5	< 5	< 30		240			
Chlorophenols													
Pentachlorophenol	0.0004	mg/l	FEQS	0	< 0.005	< 0.05	< 0.002	< 0.004	< 0.01	< 100			
Others													
Bromoform	0.1	mg/l	WHO	0	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 1			
Carbon Tetrachloride	0.003	mg/l	UK DWS	0	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001				
Lambda-cyhalothrin	0.1	ug/l	UK DWS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05				
Methane	N/A	ug/l	-	0	20900	22100	173	1.07	17900	15500			

Appendix G G6 Lea Catchment Screening

Assessment Scenario

Water Abstraction

Lab Sample ID	Screening value	Units	Screening standard	Summary									
				Number of Exceedances	BH02	BH09	BH10	BH02	BH09	BH10	BH02	BH10	
Client Sample No	Client Sample ID	Depth to Top	Depth to Bottom	Date Sampled	Sample Type								
						10/12/2014	09/12/2014	09/12/2014	16/02/2015	16/02/2015	16/02/2015	17/03/2015	17/03/2015
Boron	1000	ug/l	UK DWS	0	93	87	100	14	20	15	<10	<10	
Cadmium >200mg/l CaCO3	5	ug/l	UK DWS	0	<0.02	<0.02	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Calcium	N/A	mg/l	-	0	130	109	133	117	115	114	113	98.7	
Chromium VI	3.4	ug/l	FEQS	0	<5.0	<5.0	<5.0	<5.30	<5.0	<5.0	<5.0	<5.0	<5.0
Chromium III	4.7	ug/l	FEQS	0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chromium Total	50	ug/l	UK DWS	0	0.3	0.3	0.5	0.6	0.3	<0.2	0.7	0.3	
Copper (bioavailable), DOC <1mg/l	2000	ug/l	UK DWS	0	15	16	9.1	11	17	12	12	12	
Iron	0.2	mg/l	UK DWS	2	0.005	0.006	1.9	0.028	0.036	0.028	0.023	0.018	
Lead	10	ug/l	UK DWS	0	<0.2	<0.2	1.1	<0.2	0.2	<0.2	<0.2	<0.2	<0.2
Magnesium	N/A	mg/l	-	0	7	2.2	8.7	3.1	5	4.5	3	3.3	
Manganese (bioavailable)	50	ug/l	UK DWS	5	1	0.4	300	0.81	29	27	1.4	6.9	
Mercury	1	ug/l	UK DWS	0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.07	<0.01	
Molybdenum	70	ug/l	WHO	0	0.3	0.08	1.1	<0.05	0.35	0.26	0.13	0.31	
Nickel >200 mg/l CaCO3	20	ug/l	UK DWS	3	2.6	2.3	5.4	1	3.2	2.2	1	1.6	
Potassium	N/A	mg/l	-	0									
Selenium	10	ug/l	UK DWS	0	5.1	<0.6	2.1	1.9	1.5	1.4	1.1	0.8	
Sodium	50	mg/l	WHO	11									
Vanadium	20	ug/l	FEQS	0	0.8	0.4	<0.2	0.5	0.2	0.4	0.7	0.4	
Zinc >250 mg/l CaCO3	5000	ug/l	USEPA	0	2.2	4.3	5.6	2	6.1	3.5	3	4.7	
Monoaromatics													
Benzene	1	ug/l	UK DWS	0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	74	ug/l	FEQS	0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	20	ug/l	FEQS	0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes	30	ug/l	FEQS	0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MTBE	15	ug/l	WHO	0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Petroleum hydrocarbons													
TPH	N/A	ug/l	-	0									
TPH >C5-C6 Aliphatics	15000	ug/l	WHO	0	<10	<10	<10	<10	<10	<10	<10	<10	<10
TPH >C6-C8 Aliphatics	15000	ug/l	WHO	0	<10	<10	<10	<10	<10	<10	<10	<10	<10
TPH >C8-C10 Aliphatics	300	ug/l	WHO	0	<10	<10	<10	<10	<10	<10	<10	<10	<10
TPH >C10-C12 Aliphatics	300	ug/l	WHO	0	<10	<10	90	<10	<10	<10	<10	<10	<10
TPH >C12-C16 Aliphatics	300	ug/l	WHO	2	<10	<10	9600	<10	190	580	<10	<10	<10
TPH >C16-C21 Aliphatics	300	ug/l	WHO	0	<10	<10	40	<10	<10	<10	<10	<10	<10
TPH >C21-C35 Aliphatics	300	ug/l	WHO	0	<10	<10	70	<10	<10	<10	<10	<10	<10
TPH-CWG - Aliphatic >C16 - C35	300	ug/l	WHO	0									
TPH-CWG - Aliphatic >C35 - C44	300	ug/l	WHO	0									
C5-C35 Aliphatics	N/A	ug/l	-	0	<10	<10	9800	<10	190	580	<10	<10	<10
TPH-CWG - Aliphatic (C5 - C44)	N/A	ug/l	-	0									
TPH >C5-C6 Aromatics	10	ug/l	WHO	0	<10	<10	<10	<10	<10	<10	<10	<10	<10
TPH >C7-C8 Aromatics	700	ug/l	WHO	0	<10	<10	<10	<10	<10	<10	<10	<10	<10
TPH >C8-C9 Aromatics	300	ug/l	WHO	0									
TPH >C9-C10 Aromatics	300	ug/l	WHO	0									
TPH >C8-C10 Aromatics	300	ug/l	WHO	0	<10	<10	<10	<10	<10	<10	<10	<10	<10
TPH >C10-C12 Aromatics	90	ug/l	WHO	0	<10	<10	<10	<10	<10	<10	<10	<10	<10
TPH >C12-C16 Aromatics	90	ug/l	WHO	0	<10	<10	<10	<10	<10	<10	<10	<10	<10
TPH >C16-C21 Aromatics	90	ug/l	WHO	0	<10	<10	<10	<10	<10	<10	<10	<10	<10
TPH >C21-C35 Aromatics	90	ug/l	WHO	0	<10	<10	<10	<10	<10	<10	<10	<10	<10
TPH >C35-C44 Aromatics	90	ug/l	WHO	0									
C5-C35 Aromatics	N/A	ug/l	-	0	<10	<10	<10	<10	<10	<10	<10	<10	<10
VOCs													
Chloromethane	20	ug/l	FEQS	0	<1	<1	<1						
Chloroethane	3	ug/l	UK DWS	0	<1	<1	<1						
Bromomethane	100	ug/l	UK DWS	0	<1	<1	<1						

Appendix G G6 Lea Catchment Screening

Assessment Scenario

Water Abstraction

Lab Sample ID	Screening value	Units	Screening standard	Summary		BH02	BH09	BH10	BH02	BH09	BH10	BH02	BH10
				Number of Exceedances									
Client Sample No													
Client Sample ID													
Depth to Top													
Depth to Bottom													
Date Sampled						10/12/2014	09/12/2014	09/12/2014	16/02/2015	16/02/2015	16/02/2015	17/03/2015	17/03/2015
Sample Type													
Vinyl Chloride	0.5	ug/l	UK DWS	0	< 1	< 1	< 1						
Trichlorofluoromethane	2.5	ug/l	FEQS	0	< 1	< 1	< 1						
1,1-Dichloroethene	7	ug/l	USEPA	0	< 1	< 1	< 1						
1,1,2-Trichloro-1,2,2-trifluoroethane	400	ug/l	FEQS	0	< 1	< 1	< 1						
Cis-1,2 Dichloroethene	50	ug/l	WHO	0	< 1	< 1	< 1						
MTBE	15	ug/l	WHO	0	< 1	< 1	< 1						
1,1 -Dichloroethane	3	ug/l	UK DWS	3	< 1	< 1	< 1						
2,2-Dichloropropane	40	ug/l	WHO	0	< 1	< 1	< 1						
Trichloromethane	2.5	ug/l	FEQS	0	< 1	< 1	< 1						
1,1,1-Trichloroethane	100	ug/l	FEQS	0	< 1	< 1	< 1						
1,2-Dichloroethane	3	ug/l	UK DWS	0	< 1	< 1	< 1						
1,1-Dichloropropene	20	ug/l	WHO	0	< 1	< 1	< 1						
Trans-1,2 Dichloroethene	50	ug/l	WHO	0	< 1	< 1	< 1						
Benzene	1	ug/l	UK DWS	0	< 1	< 1	< 1						
Tetrachloromethane	3	ug/l	UK DWS	1	< 1	< 1	< 1						
1,2-Dichloropropane	40	ug/l	WHO	0	< 1	< 1	< 1						
Trichloroethene	10	ug/l	UK DWS	0	< 1	< 1	< 1						
Dibromomethane	100	ug/l	UK DWS	0	< 1	< 1	< 1						
Bromodichloromethane	100	ug/l	UK DWS	0	< 1	< 1	< 1						
Cis-1,3 Dichloropropene	20	ug/l	WHO	0	< 1	< 1	< 1						
Trans-1,3 Dichloropropene	20	ug/l	WHO	0	< 1	< 1	< 1						
Toluene	74	ug/l	FEQS	0	< 1	< 1	< 1						
1,1,2-Trichloroethane	400	ug/l	FEQS	0	< 1	< 1	< 1						
1,3-Dichloropropane	40	ug/l	WHO	0	< 1	< 1	< 1						
Dibromochloromethane	100	ug/l	WHO	0	< 1	< 1	< 1						
Tetrachloroethene	10	ug/l	UK DWS	0	< 1	< 1	< 1						
1,2-Dibromoethane	0.4	ug/l	WHO	0	< 1	< 1	< 1						
Chlorobenzene	0.4	ug/l	FEQS	0	< 1	< 1	< 1						
1,1,1,2-Tetrachloroethane	400	ug/l	USEPA	0	< 1	< 1	< 1						
Ethylbenzene	20	ug/l	FEQS	0	< 1	< 1	< 1						
m,p-Xylenes	30	ug/l	FEQS	0	< 1	< 1	< 1						
Styrene	20	ug/l	WHO	0	< 1	< 1	< 1						
Tribromomethane	10	ug/l	Default	0	< 1	< 1	< 1						
o-Xylene	30	ug/l	FEQS	0	< 1	< 1	< 1						
1,1,2,2-Tetrachloroethane	400	ug/l	USEPA	0	< 1	< 1	< 1						
Iso-propylbenzene	1	ug/l	UK DWS	0	< 1	< 1	< 1						
Bromobenzene	1	ug/l	UK DWS	0	< 1	< 1	< 1						
Propylbenzene	1	ug/l	UK DWS	0	< 1	< 1	< 1						
2-Chlorotoluene	700	ug/l	WHO	0	< 1	< 1	< 1						
4-Chlorotoluene	700	ug/l	WHO	0	< 1	< 1	< 1						
1,3,5 Trimethylbenzene	1	ug/l	UK DWS	0	< 1	< 1	< 1						
tert-Butylbenzene	1	ug/l	UK DWS	0	< 1	< 1	< 1						
1,2,4 Trimethylbenzene	1	ug/l	UK DWS	0	< 1	< 1	< 1						
sec-Butylbenzene	1	ug/l	UK DWS	0	< 1	< 1	< 1						
1,3 Dichlorobenzene	3000	ug/l	USEPA	0	< 1	< 1	< 1						
p-Isopropyltoluene	74	ug/l	FEQS	0	< 1	< 1	< 1						
1,2-Dichlorobenzene	1000	ug/l	WHO	0	< 1	< 1	< 1						
1,4 Dichlorobenzene	300	ug/l	WHO	0	< 1	< 1	< 1						
n-Butylbenzene	1	ug/l	UK DWS	0	< 1	< 1	< 1						
1,2-Dibromo-3-chloropropane	1	ug/l	WHO	0	< 1	< 1	< 1						
1,2,4-Trichlorobenzene	70	ug/l	USEPA	0	< 1	< 1	< 1						
Hexachlorobutadiene	0.6	ug/l	WHO	0	< 1	< 1	< 1						
1,2,3-Trichlorobenzene	0.4	ug/l	FEQS	0	< 1	< 1	< 1						

Appendix G G6 Lea Catchment Screening

Assessment Scenario

Water Abstraction

Lab Sample ID	Screening value	Units	Screening standard	Summary Number of Exceedances	BH02	BH09	BH10	BH02	BH09	BH10	BH02	BH10
Client Sample No												
Client Sample ID												
Depth to Top												
Depth to Bottom												
Date Sampled					10/12/2014	09/12/2014	09/12/2014	16/02/2015	16/02/2015	16/02/2015	17/03/2015	17/03/2015
Sample Type												
1,2,3-Trichloropropane	40	ug/l	WHO	0								
Bromochloromethane	100	ug/l	WHO	0								
Dichloromethane	20	ug/l	FEQS	0								
Carbon disulphide	10	ug/l	Default	0								
Dichlorodifluoromethane	20	ug/l	FEQS	0								
SVOCs												
Phenol	7.7	ug/l	FEQS	0								
2-Chlorophenol	50	ug/l	FEQS	0								
Bis(2-chloroethyl)ether	1000	ug/l	USEPA	0								
Bis(2-chloroisopropyl)ether	1000	ug/l	USEPA	0								
2-Methylphenol	100	ug/l	FEQS	0								
Hexachloroethane	40	ug/l	USEPA	0								
Nitrobenzene	1	ug/l	UK DWS	0								
4-Methylphenol	100	ug/l	FEQS	0								
Isophorone	7000	ug/l	USEPA	0								
2-Nitrophenol	7.7	ug/l	FEQS	0								
2,4-Dimethylphenol	100	ug/l	FEQS	0								
Bis(2-chloroethoxy)methane	10	ug/l	Default	0								
2,4-Dichlorophenol	4.2	ug/l	FEQS	0								
4-Chloro-3-methylphenol	40	ug/l	FEQS	0								
2,4,6-trichlorophenol	200	ug/l	WHO	0								
2,4,5-Trichlorophenol	200	ug/l	WHO	0								
2-Methylnaphthalene	2	ug/l	FEQS	0								
2-Chloronaphthalene	2	ug/l	FEQS	0								
Dimethylphthalate	800	ug/l	FEQS	0								
2,6-Dinitrotoluene	100	ug/l	USEPA	0								
2,4-Dinitrotoluene	100	ug/l	USEPA	0								
Dibenzofuran	2	ug/l	FEQS	0								
Diethyl phthalate	200	ug/l	FEQS	0								
Bromophenyl phenyl ether	10	ug/l	Default	0								
Hexachlorobenzene	1	ug/l	USEPA	0								
Carbazole	2	ug/l	FEQS	0								
Di-n-butyl phthalate	8	ug/l	FEQS	0								
Butyl benzyl phthalate	7.5	ug/l	FEQS	0								
PCBs by GC-ECD - WHO 12												
Environmental Forensics												
PFOS	0.3	ug/l	DWS	0	0.01	0.01	0.01	<0.01	<0.01	-		
PFOA	0.3	ug/l	DWS	0	0.02	0.02	0.02	<0.05	<0.05	-		
4-Nitrophenol	7.7	ug/l	FEQS	0								
Hexachlorocyclopentadiene	50	ug/l	USEPA	0								
Perylene	2	ug/l	FEQS	0								
n-Nitroso-n-dipropylamine	0.1	ug/l	UK DWS	0								
Carbamates												
Phthalates												
Bis(2-ethylhexyl)phthalate	8	ug/l	WHO	0								
Di-n-octyl phthalate	20	ug/l	FEQS	0								
Glycols												
Rodenticides												
Triazine Pesticides												
Atrazine	0.1	ug/l	UK DWS	0	<1.0	<1.0	<1.0					
Simazine	0.1	ug/l	UK DWS	0	<1.0	<1.0	<1.0					
Prometryn	0.1	ug/l	UK DWS	0	<1.0	<1.0	<1.0					
Propazine	0.1	ug/l	UK DWS	0	<1.0	<1.0	<1.0					

Appendix G G6 Lea Catchment Screening

Assessment Scenario

Water Abstraction

Lab Sample ID	Screening value	Units	Screening standard	Summary Number of Exceedances	BH02	BH09	BH10	BH02	BH09	BH10	BH02	BH10
					10/12/2014	09/12/2014	09/12/2014	16/02/2015	16/02/2015	16/02/2015	17/03/2015	17/03/2015
Terbutylazine	0.1	ug/l	UK DWS	0	<1.0	<1.0	<1.0					
Terbutryn	0.1	ug/l	UK DWS	0	<1.0	<1.0	<1.0					
Acid herbicides esters												
Acid Herbicides												
2,4,5-T	0.1	ug/l	UK DWS	0	<1.0	<1.0	<1.0					
2,4,5-TP	0.1	ug/l	UK DWS	0	<1.0	<1.0	<1.0					
2,4-D	0.1	ug/l	UK DWS	0	<1.0	<1.0	<1.0					
2,4-DB	0.1	ug/l	UK DWS	0	<1.0	<1.0	<1.0					
Dicamba	0.1	ug/l	UK DWS	0	<1.0	<1.0	<1.0					
Dichlorprop	0.1	ug/l	UK DWS	0	<1.0	<1.0	<1.0					
MCPA	0.1	ug/l	UK DWS	0	<1.0	<1.0	<1.0					
MCPB	0.1	ug/l	UK DWS	0	<1.0	<1.0	<1.0					
Mecoprop	0.1	ug/l	UK DWS	0	<1.0	<1.0	<1.0					
Picloram	0.1	ug/l	UK DWS	0	<1.0	<1.0	<1.0					
Organochlorine Pesticides												
Aldrin	0.03	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01					
alpha-HCH (alpha-BHC)	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01					
beta-HCH (beta-BHC)	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01					
delta-HCH (delta-BHC)	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01					
Dieldrin	0.03	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01					
Endosulfan	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01					
Endosulfan	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01					
Endrin	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01					
gamma-HCH (gamma-BHC)	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01					
Heptachlor	0.03	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01					
Heptachlor Epoxide	0.03	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01					
Isodrin	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01					
Methoxychlor	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01					
o,p-DDE	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01					
DDT	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01					
o,p-TDE (o,p-DDD)	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01					
p,p-DDE	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01					
DDT	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01					
p,p-TDE (o,p-DDD)	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01					
Trifluralin	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01					
Organonitrogen pesticides												
Bentazone	0.1	ug/l	UK DWS	0	<1.0	<1.0	<1.0					
Organophosphorous pesticides												
Azinphos-methyl	0.1	ug/l	UK DWS	0	<0.01	<0.01	<0.01					
Chlorfenvinphos I	0.1	ug/l	UK DWS	0	<0.01	<0.01	<0.01					
Chlorfenvinphos II	0.1	ug/l	UK DWS	0	<0.01	<0.01	<0.01					
Chlorpyrifos-methyl	0.1	ug/l	UK DWS	0	<0.01	<0.01	<0.01					
Diazinon	0.1	ug/l	UK DWS	0	<0.01	<0.01	<0.01					
Dichlorvos	0.1	ug/l	UK DWS	0	<0.01	<0.01	<0.01					
Dimethoate	0.1	ug/l	UK DWS	0	<0.01	<0.01	<0.01					
E-mevinphos	0.1	ug/l	UK DWS	0	<0.01	<0.01	<0.01					
Fenitrothion	0.1	ug/l	UK DWS	0	<0.01	<0.01	<0.01					
Fenthion	0.1	ug/l	UK DWS	0	<0.01	<0.01	<0.01					
Malathion	0.1	ug/l	UK DWS	0	<0.01	<0.01	<0.01					
Parathion-ethyl	0.1	ug/l	UK DWS	0	<0.01	<0.01	<0.01					
Parathion-methyl	0.1	ug/l	UK DWS	0	<0.01	<0.01	<0.01					
Phenylurea herbicides												
Isoproturon	100	ng/l	UK DWS	0	<1000	<1000	<1000					

Appendix G G6 Lea Catchment Screening

Assessment Scenario

Water Abstraction

					Summary											
Lab Sample ID	Screening value	Units	Screening standard	Number of Exceedances	BH02	BH09	BH10	BH02	BH09	BH10	BH02	BH10				
Client Sample No																
Client Sample ID																
Depth to Top																
Depth to Bottom																
Date Sampled									10/12/2014	09/12/2014	09/12/2014	16/02/2015	16/02/2015	16/02/2015	17/03/2015	17/03/2015
Sample Type																
Chlortoluron	100	ng/l	UK DWS	0	<1000	<1000	<1000									
VFAs																
Pyrethroids																
Organotins																
Chlorophenols																
Pentachlorophenol	0.0004	mg/l	FEQS	1												
Others																
Chlordane	0.0001	mg/l	UK DWS	0	<10	<10	<10									
Cyanazine	0.0006	mg/l	WHO	0	<1	<1	<1									

Appendix G G7 Mimram Catchment Screening

Assessment Scenario

Water Abstraction

					Summary					
Lab Sample ID	Screening value	Units	Screening standard	Number of Exceedances	GW201	GW201	GW201	GW202	GW202	GW202
Client Sample No					GW201	GW201	GW201	GW202	GW202	GW202
Client Sample ID										
Depth to Top					32.11	32.45	40	not supplied	35.27	36.88
Depth to Bottom					54.8	50.37	40	not supplied	53.92	54.8
Date Sampled					05/10/2018	13/09/2018	07/08/2018	14/09/2018	15/08/2018	09/10/2018
Sample Type					None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Inorganics										
Organics										
General inorganics										
pH	N/A	pH units	-	0	7.69	7.45	7.44	7.58	7.72	7.79
Total Cyanide	50	ug/l	UK DWS	0	< 50	< 50	< 50	< 50	< 50	< 50
Complex Cyanides	50	ug/l	UK DWS	0	< 50	< 50	< 50	< 50	< 50	< 50
Free Cyanide	50	ug/l	UK DWS	0	< 50	< 50	< 50	< 50	< 50	< 50
Thiocyanate as SCN	50	ug/l	UK DWS	0	< 50	< 50	< 50	< 50	< 50	< 50
Sulphate as SO4	250000	ug/l	UK DWS	0	11600	13900	25600	22000	33600	25100
Sulphide	250000	ug/l	UK DWS	0	< 10	< 10	< 10	< 10	< 10	31.8
Chloride	250	mg/l	UK DWS	0	80.6	88.2	62.3	104	108	95.9
Fluoride	1500	ug/l	UK DWS	0	< 500	< 500	< 500	< 500	< 500	< 500
Ammoniacal Nitrogen as N	390	ug/l	UK DWS	2	407	433	< 200	< 200	< 200	< 200
Nitrate as NO3	50	mg/l	UK DWS	0	4.24	3.39	5.23	< 0.3	< 0.3	< 0.3
Nitrite as NO2	500	ug/l	UK DWS	2	338	817	833	< 50	< 50	< 50
Alkalinity	N/A	mg/l	-	0	2300	2310	3650	535	300	2960
Chemical Oxygen Demand (COD)	N/A	mg/l	-	0	111	257	284	-	668	349
Biological Oxygen Demand (BOD)	N/A	mg/l	-	0	< 1	3.56	< 1	-	70	43.4
Total Oxidised N (Nitrate/-ite)	11.3	mg/l	UK DWS	0	1.06	1.02	1.44	< 0.1	< 0.1	< 0.1
Total Suspended Solids	N/A	mg/l	-	0	7180	3590	5630	690	238	4580
Hardness - Total	N/A	mg/l	-	0	5150	3200	4710	1660	2070	3220
Bromide	N/A	mg/l	-	0	0.0721	0.0749	0.174	0.0885	0.081	0.0654
Bromate	0.01	mg/l	UK DWS	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Phenols										
Cresols	100	ug/l	FEQS	0	< 6	< 6	< 6	< 6	< 6	< 6
Isopropylphenol	7.7	ug/l	FEQS	0	< 6	< 6	< 6	< 6	< 6	< 6
Phenol	7.7	ug/l	FEQS	0	< 2	< 2	< 2	< 2	< 2	< 2
Trimethylphenol	100	ug/l	FEQS	0	< 3	< 3	< 3	< 3	< 3	< 3
Speciated PAHs										
Naphthalene	2	ug/l	FEQS	0	< 0.01	< 0.01	0.0205	0.0113	0.0169	< 0.01
Acenaphthylene	2	ug/l	FEQS	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Acenaphthene	2000	ug/l	USEPA	0	0.0226	0.0108	0.00883	< 0.005	< 0.005	0.023
Fluorene	2	ug/l	FEQS	0	0.0053	0.00858	0.00797	< 0.005	< 0.005	0.0137
Phenanthrene	2	ug/l	FEQS	0	0.0692	0.0902	0.0845	< 0.005	0.0191	0.0656
Anthracene	0.1	ug/l	FEQS	0	0.0208	0.031	0.0229	< 0.005	< 0.005	< 0.005
Fluoranthene	0.0063	ug/l	FEQS	5	0.383	0.477	0.409	0.0182	< 0.005	0.114
Pyrene	2	ug/l	FEQS	0	0.417	0.523	0.399	0.0145	< 0.005	0.121
Benzo(a)anthracene	2	ug/l	FEQS	0	0.151	0.177	0.167	< 0.005	< 0.005	0.0321
Chrysene	2	ug/l	FEQS	0	0.194	0.216	0.208	< 0.005	< 0.005	0.038
Benzo(b)fluoranthene	0.1	ug/l	UK DWS	3	0.234	0.788	0.626	< 0.005	< 0.005	0.0482
Benzo(k)fluoranthene	0.1	ug/l	UK DWS	3	0.126	0.317	0.272	< 0.005	< 0.005	0.0254
Benzo(a)pyrene	0.01	ug/l	UK DWS	4	0.195	0.57	0.473	< 0.002	< 0.002	0.0293
Indeno(1,2,3-cd)pyrene	0.1	ug/l	UK DWS	3	0.122	0.243	0.228	< 0.005	< 0.005	0.028
Dibenzo(a,h)anthracene	2	ug/l	FEQS	0	0.0226	0.0664	0.051	< 0.005	< 0.005	< 0.005
Benzo(g,h,i)perylene	0.1	ug/l	UK DWS	3	0.198	0.378	0.341	< 0.005	< 0.005	0.029
Heavy metals and metalloids										
Antimony	5	ug/l	UK DWS	0	< 1	< 1	< 1	< 1	< 1	< 1
Arsenic	10	ug/l	UK DWS	0	0.726	0.969	0.586	4.09	1.76	6.68
Barium	700	ug/l	WHO	0	83.1	89.7	85.4	61	75.3	60
Beryllium	4	ug/l	USEPA	0	< 0.1	< 0.1	< 0.1	< 0.1	0.326	< 0.1
Boron	1000	ug/l	UK DWS	0	22.7	10.9	39.1	38.2	36.2	40
Cadmium >200mg/l CaCO3	5	ug/l	UK DWS	0	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08
Calcium	N/A	mg/l	-	0	107	106	108	119	117	115

Appendix G G7 Mimram Catchment Screening

Assessment Scenario

Water Abstraction

Lab Sample ID	Screening value	Units	Screening standard	Number of Exceedances	Summary						
					GW201	GW201	GW201	GW202	GW202	GW202	
Client Sample No											
Client Sample ID											
Depth to Top					32.11	32.45	40	not supplied	35.27	36.88	
Depth to Bottom					54.8	50.37	40	not supplied	53.92	54.8	
Date Sampled					05/10/2018	13/09/2018	07/08/2018	14/09/2018	15/08/2018	09/10/2018	
Sample Type					None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	
2,2-Dichloropropane	40	ug/l	WHO	0	< 1	< 1	< 1	< 1	< 1	< 1	
Trichloromethane	2.5	ug/l	FEQS	0	< 1	< 1	< 1	< 1	< 1	< 1	
1,1,1-Trichloroethane	100	ug/l	FEQS	0	< 1	< 1	< 1	< 1	< 1	< 1	
1,2-Dichloroethane	3	ug/l	UK DWS	0	< 1	< 1	< 1	< 1	< 1	< 1	
1,1-Dichloropropene	20	ug/l	WHO	0	< 1	< 1	< 1	< 1	< 1	< 1	
Trans-1,2 Dichloroethene	50	ug/l	WHO	0	< 1	< 1	< 1	< 1	< 1	< 1	
Benzene	1	ug/l	UK DWS	0	< 1	< 1	< 1	< 1	< 1	< 1	
Tetrachloromethane	3	ug/l	UK DWS	0	< 1	< 1	< 1	< 1	< 1	< 1	
1,2-Dichloropropane	40	ug/l	WHO	0	< 1	< 1	< 1	< 1	< 1	< 1	
Trichloroethene	10	ug/l	UK DWS	0	< 1	< 1	< 1	< 1	< 1	< 1	
Dibromomethane	100	ug/l	UK DWS	0	< 1	< 1	< 1	< 1	< 1	< 1	
Bromodichloromethane	100	ug/l	UK DWS	0	< 1	< 1	< 1	< 1	< 1	< 1	
Cis-1,3 Dichloropropene	20	ug/l	WHO	0	< 1	< 1	< 1	< 1	< 1	< 1	
Trans-1,3 Dichloropropene	20	ug/l	WHO	0	< 1	< 1	< 1	< 1	< 1	< 1	
Toluene	74	ug/l	FEQS	0	< 1	< 1	< 1	< 1	< 1	1.05	
1,1,2-Trichloroethane	400	ug/l	FEQS	0	< 1	< 1	< 1	< 1	< 1	< 1	
1,3-Dichloropropane	40	ug/l	WHO	0	< 1	< 1	< 1	< 1	< 1	< 1	
Dibromochloromethane	100	ug/l	WHO	0	< 1	< 1	< 1	< 1	< 1	< 1	
Tetrachloroethene	10	ug/l	UK DWS	0	< 1	< 1	< 1	< 1	< 1	< 1	
1,2-Dibromoethane	0.4	ug/l	WHO	0	< 1	< 1	< 1	< 1	< 1	< 1	
Chlorobenzene	0.4	ug/l	FEQS	0	< 1	< 1	< 1	< 1	< 1	< 1	
1,1,1,2-Tetrachloroethane	400	ug/l	USEPA	0	< 1	< 1	< 1	< 1	< 1	< 1	
Ethylbenzene	20	ug/l	FEQS	0	< 1	< 1	< 1	< 1	< 1	< 1	
m,p-Xylenes	30	ug/l	FEQS	0	< 1	< 1	< 1	< 1	< 1	< 1	
Styrene	20	ug/l	WHO	0	< 1	< 1	< 1	< 1	< 1	< 1	
o-Xylene	30	ug/l	FEQS	0	< 1	< 1	< 1	< 1	< 1	< 1	
1,1,2,2-Tetrachloroethane	400	ug/l	USEPA	0	< 1	< 1	< 1	< 1	< 1	< 1	
Iso-propylbenzene	1	ug/l	UK DWS	0	< 1	< 1	< 1	< 1	< 1	< 1	
Bromobenzene	1	ug/l	UK DWS	0	< 1	< 1	< 1	< 1	< 1	< 1	
Propylbenzene	1	ug/l	UK DWS	0	< 1	< 1	< 1	< 1	< 1	< 1	
2-Chlorotoluene	700	ug/l	WHO	0	< 1	< 1	< 1	< 1	< 1	< 1	
4-Chlorotoluene	700	ug/l	WHO	0	< 1	< 1	< 1	< 1	< 1	< 1	
1,3,5 Trimethylbenzene	1	ug/l	UK DWS	0	< 1	< 1	< 1	< 1	< 1	< 1	
tert-Butylbenzene	1	ug/l	UK DWS	0	< 1	< 1	< 1	< 1	< 1	< 1	
1,2,4 Trimethylbenzene	1	ug/l	UK DWS	0	< 1	< 1	< 1	< 1	< 1	< 1	
sec-Butylbenzene	1	ug/l	UK DWS	0	< 1	< 1	< 1	< 1	< 1	< 1	
1,3 Dichlorobenzene	3000	ug/l	USEPA	0	< 1	< 1	< 1	< 1	< 1	< 1	
p-Isopropyltoluene	74	ug/l	FEQS	0	< 1	< 1	< 1	< 1	< 1	< 1	
1,2-Dichlorobenzene	1000	ug/l	WHO	0	< 1	< 1	< 1	< 1	< 1	< 1	
1,4 Dichlorobenzene	300	ug/l	WHO	0	< 1	< 1	< 1	< 1	< 1	< 1	
n-Butylbenzene	1	ug/l	UK DWS	0	< 1	< 1	< 1	< 1	< 1	< 1	
1,2-Dibromo-3-chloropropane	1	ug/l	WHO	0	< 1	< 1	< 1	< 1	< 1	< 1	
1,2,4-Trichlorobenzene	70	ug/l	USEPA	0	< 1	< 1	< 1	< 1	< 1	< 1	
Hexachlorobutadiene	0.6	ug/l	WHO	0	< 1	< 1	< 1	< 1	< 1	< 1	
1,2,3-Trichlorobenzene	0.4	ug/l	FEQS	0	< 1	< 1	< 1	< 1	< 1	< 1	
1,2,3-Trichloropropane	40	ug/l	WHO	0	< 1	< 1	< 1	< 1	< 1	< 1	
1,3,5-Trichlorobenzene	0.4	ug/l	FEQS	0	< 1	< 1	< 1	< 1	< 1	< 1	
Bromochloromethane	100	ug/l	WHO	0	< 1	< 1	< 1	< 1	< 1	< 1	
Dichloromethane	20	ug/l	FEQS	0	< 3	< 3	< 3	< 3	< 3	< 3	
Carbon disulphide	10	ug/l	Default	0	< 1	< 1	< 1	< 1	< 1	< 1	
Dichlorodifluoromethane	20	ug/l	FEQS	0	< 1	< 1	< 1	< 1	< 1	< 1	
SVOCs											
Phenol	7.7	ug/l	FEQS	1	< 1	19.7	< 8	< 1	< 1	< 1	

Appendix G G7 Mimram Catchment Screening

Assessment Scenario

Water Abstraction

Lab Sample ID	Screening value	Units	Screening standard	Summary Number of Exceedances	GW201	GW201	GW201	GW202	GW202	GW202
Client Sample No										
Client Sample ID										
Depth to Top					32.11	32.45	40	not supplied	35.27	36.88
Depth to Bottom					54.8	50.37	40	not supplied	53.92	54.8
Date Sampled					05/10/2018	13/09/2018	07/08/2018	14/09/2018	15/08/2018	09/10/2018
Sample Type					None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Cyhalothrin	0.1	ug/l	UK DWS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Bromacil	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
4-Nitrophenol	7.7	ug/l	FEQS	0	< 1	< 8	< 8	< 1	< 1	< 1
Hexachlorocyclopentadiene	50	ug/l	USEPA	0	< 1	< 8	< 8	< 1	< 1	< 1
n-Nitroso-n-dipropylamine	0.1	ug/l	UK DWS	0	< 1	< 8	< 8	< 1	< 1	< 1
Carbamates										
Pirimicarb	100	ng/l	UK DWS	0	< 10	< 10	< 10	< 10	< 10	< 10
Carbetamide	100	ng/l	UK DWS	0	< 100	< 100	< 100	< 100	< 100	< 100
Phthalates										
Bis(2-ethylhexyl)phthalate	8	ug/l	WHO	0	< 2	< 16	< 16	< 2	< 2	< 2
Di-n-octyl phthalate	20	ug/l	FEQS	0	< 5	< 40	< 40	< 5	< 5	< 5
Glycols										
Rodenticides										
Triazine Pesticides										
Atrazine	0.1	ug/l	UK DWS	5	0.099	0.59	0.126	0.213	0.317	0.27
Simazine	0.1	ug/l	UK DWS	3	< 0.01	< 0.05	< 0.055	0.101	0.141	0.132
Prometryn	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Propazine	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	0.0176	< 0.01	0.02	< 0.01
Terbutryn	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acid herbicides esters										
Acid Herbicides										
2,3,6-TBA	0.1	ug/l	UK DWS	0	< 1	< 1	< 0.1	< 0.1	< 0.1	< 0.5
Benazolin	0.1	ug/l	UK DWS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Bromoxynil	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Clopyralid	0.1	ug/l	UK DWS	0	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Ioxynil	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,4,5-T	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,4,5-TP	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,4-D	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,4-DB	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Dicamba	0.1	ug/l	UK DWS	0	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Dichlorprop	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	0.01	< 0.01
MCPA	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
MCPB	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Mecoprop	0.1	ug/l	UK DWS	0	< 0.01	0.04	0.021	< 0.01	0.02	< 0.01
Picloram	0.1	ug/l	UK DWS	0	< 0.02	< 0.2	< 0.02	< 0.02	< 0.02	< 0.02
Organochlorine Pesticides										
Aldrin	0.03	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.1	< 0.01	< 0.01
alpha-HCH (alpha-BHC)	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.1	< 0.01	< 0.01
beta-HCH (beta-BHC)	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.1	< 0.01	< 0.01
delta-HCH (delta-BHC)	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.1	< 0.01	< 0.01
Dieldrin	0.03	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.1	< 0.01	< 0.01
Endosulfan	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.1	< 0.01	< 0.01
Endosulfan	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02	< 0.2	< 0.02	< 0.02
Endosulfan Sulphate	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.04	< 0.2	< 0.02	< 0.02
Endrin	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.1	< 0.01	< 0.01
gamma-HCH (gamma-BHC)	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.1	< 0.01	< 0.01
Heptachlor	0.03	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.1	< 0.01	< 0.01
Heptachlor Epoxide	0.03	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.1	< 0.01	< 0.01
Isodrin	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.1	< 0.01	< 0.01
Methoxychlor	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.02	< 0.1	< 0.01	< 0.01
o,p-DDE	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.1	< 0.01	< 0.01
DDT	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.02	< 0.1	< 0.01	< 0.01

Appendix G

G7 Mimram Catchment Screening

Assessment Scenario

Water Abstraction

					Summary									
Lab Sample ID	Screening value	Units	Screening standard	Number of Exceedances	GW201	GW201	GW201	GW202	GW202	GW202				
Client Sample No														
Client Sample ID														
Depth to Top									32.11	32.45	40	not supplied	35.27	36.88
Depth to Bottom									54.8	50.37	40	not supplied	53.92	54.8
Date Sampled									05/10/2018	13/09/2018	07/08/2018	14/09/2018	15/08/2018	09/10/2018
Sample Type									None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Pentachlorophenol	0.0004	mg/l	FEQS	0	< 0.001	< 0.008	< 0.008	< 0.001	< 0.001	< 0.001				
Others														
Bromoform	0.1	mg/l	WHO	0	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001				
Carbon Tetrachloride	0.003	mg/l	UK DWS	0	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001				
Lambda-cyhalothrin	0.1	ug/l	UK DWS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05				
Methane	N/A	ug/l	-	0	< 2.18	< 2.21	5.88	137	274	33.7				

Appendix G

G8 Groundwater Beneath Landfill

Assessment Scenario

Water Abstraction

				Summary																		
Lab Sample ID	Screening value	Units	Screening standard	Number of Exceedances	ARP16-LF-BH02	ARP16-LF-BH02	ARP16-LF-BH02	ARP16-LF-BH02	949605	963812	983103	998637	1022118	1053167	1074199	1101999	ARP16-LF-BH03					
Client Sample No					ARP16-LF-BH02	ARP16-LF-BH02	ARP16-LF-BH02	ARP16-LF-BH02	ARP16-LF-BH02	ARP16-LF-BH02	ARP16-LF-BH02	ARP16-LF-BH02	ARP16-LF-BH02	ARP16-LF-BH02	ARP16-LF-BH02	ARP16-LF-BH02	ARP16-LF-BH02	ARP16-LF-BH02	ARP16-LF-BH02	ARP16-LF-BH02	ARP16-LF-BH02	
Client Sample ID					43.00	41.36	43.00	43.07	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth to Top					43.00	41.36	43.00	43.07	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth to Bottom					45.00	45.00	45.00	45.00	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled					17/02/17	16/03/17	06/04/17	17/05/17	25/04/2018	18/05/2018	14/06/2018	10/07/2018	13/08/2018	25/09/2018	22/10/2018	26/11/2018	06/02/17					
Sample Type								None Supplied	1410	None Supplied	None Supplied	None Supplied	0945									
Rodenticides																						
Triazine Pesticides																						
Atrazine	0.1	ug/l	UK DWS	2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05		< 0.05	< 0.05	< 0.05	I/S	< 0.1					
Simazine	0.1	ug/l	UK DWS	0	< 0.1	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05		< 0.05	< 0.05	< 0.05	I/S	< 0.1					
Prometryn	0.1	ug/l	UK DWS	0	< 0.1	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05		< 0.05	< 0.05	< 0.05	I/S	< 0.1					
Propazine	0.1	ug/l	UK DWS	0	< 0.1	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05		< 0.05	< 0.05	< 0.05	I/S	< 0.1					
Terbutylazine	0.1	ug/l	UK DWS	0	< 0.1	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05		< 0.05	< 0.05	< 0.05	I/S	< 0.1					
Terbutryn	0.1	ug/l	UK DWS	0	< 0.1	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05		< 0.05	< 0.05	< 0.05	I/S	< 0.1					
Acid herbicides esters																						
2,4-D Methyl Ester	0.1	ug/l	UK DWS	0					< 0.02	< 0.02	< 0.02		< 0.02	< 0.02	< 0.02	I/S						
2,4-D butyl ester	0.1	ug/l	UK DWS	0					< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	I/S						
2,4-D ethyl ester	0.1	ug/l	UK DWS	0					< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	I/S						
2,4-D isobutyl ester	0.1	ug/l	UK DWS	0					< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	I/S						
2,4-D isopropyl ester	0.1	ug/l	UK DWS	0					< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	I/S						
Acid Herbicides																						
2,3,6-TBA	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02		< 0.02	< 0.02	< 0.02	I/S	< 0.02					
Benazolin	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02		< 0.02	< 0.02	< 0.02	I/S	< 0.02					
Bromoxynil	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02		< 0.02	< 0.02	< 0.02	I/S	< 0.02					
Clopyralid	0.1	ug/l	UK DWS	0	< 0.02	< 0.05	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02		< 0.02	< 0.02	< 0.02	I/S	< 0.02					
Ioxynil	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02		< 0.02	< 0.02	< 0.02	I/S	< 0.02					
2,4,5-T	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02		< 0.02	< 0.02	< 0.02	I/S	< 0.02					
2,4,5-TP	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02		< 0.02	< 0.02	< 0.02	I/S	< 0.02					
2,4-D	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02		< 0.02	< 0.02	< 0.02	I/S	< 0.02					
2,4-DB	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02		< 0.02	< 0.02	< 0.02	I/S	< 0.02					
Dicamba	0.1	ug/l	UK DWS	1	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02		< 0.02	0.05	< 0.02	I/S	< 0.02					
Dichlorprop	0.1	ug/l	UK DWS	2	0.02	< 0.02	0.03	< 0.02	< 0.02	< 0.02	< 0.02		< 0.02	0.03	< 0.02	I/S	< 0.02					
MCPA	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02		< 0.02	< 0.02	< 0.02	I/S	< 0.02					
MCPB	0.1	ug/l	UK DWS	0	< 0.02	< 0.05	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02		< 0.02	< 0.02	< 0.02	I/S	< 0.02					
Mecoprop	0.1	ug/l	UK DWS	29	0.03	0.14	0.04	< 0.02	< 0.02	0.02	0.03		0.03	0.05	< 0.02	I/S	< 0.02					
Picloram	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02		< 0.02	< 0.02	< 0.02	I/S	< 0.02					
4-Chlorophenoxyacetic acid	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02		< 0.02	< 0.02	< 0.02	I/S	< 0.02					
Organochlorine Pesticides																						
Aldrin	0.03	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	I/S	< 0.01					
alpha-HCH (alpha-BHC)	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	I/S	< 0.01					
beta-HCH (beta-BHC)	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	I/S	< 0.01					
delta-HCH (delta-BHC)	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	I/S	< 0.01					
Dieldrin	0.03	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	I/S	< 0.01					
Endosulfan	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	I/S	< 0.01					
Endosulfan Sulphate	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	I/S	< 0.01					
Endrin	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	I/S	< 0.01					
gamma-HCH (gamma-BHC)	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	I/S	< 0.01					
Heptachlor	0.03	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	I/S	< 0.01					
Heptachlor Epoxide	0.03	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	I/S	< 0.01					
Isodrin	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	I/S	< 0.01					
Methoxychlor	0.1	ug/l	UK DWS	0	< 0.01	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	I/S	< 0.01					
o,p-DDE	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	I/S	< 0.01					
DDT	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	I/S	< 0.01					
o,p-TDE (o,p-DDD)	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	I/S	< 0.01					
p,p-DDE	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	I/S	< 0.01					
DDT	0.1	ug/l	UK DWS	0	< 0.01	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	I/S	< 0.01					
p,p-TDE (o,p-DDD)	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	I/S	< 0.01					

Appendix G G8 Groundwater Beneath Landfill

Assessment Scenario

Water Abstraction

Lab Sample ID	Screening value	Units	Screening standard	Summary																	
				Number of Exceedances		ARP16-LF-BH02	ARP16-LF-BH02	ARP16-LF-BH02	ARP16-LF-BH02	949605	963812	983103	998637	1022118	1053167	1074199	1101999	ARP16-LF-BH03			
Client Sample No						ARP16-LF-BH02	ARP16-LF-BH02	ARP16-LF-BH02	ARP16-LF-BH02	949605	963812	983103	998637	1022118	1053167	1074199	1101999	ARP16-LF-BH03			
Client Sample ID										None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Depth to Top						43.00	41.36	43.00	43.07	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Depth to Bottom										45.00	None Supplied										
Date Sampled						17/02/17	16/03/17	06/04/17	17/05/17	25/04/2018	18/05/2018	14/06/2018	10/07/2018	13/08/2018	25/09/2018	22/10/2018	26/11/2018	06/02/17			
Sample Type											None Supplied		1410	None Supplied	None Supplied	None Supplied	0945				
Trifluralin	0.1	ug/l	UK DWS	0						< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	I/S				
Organonitrogen pesticides																					
Bentazone	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02		< 0.02	< 0.02	< 0.02	I/S	< 0.02			
Fluroxypyr	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02		< 0.02	< 0.02	< 0.02	I/S	< 0.02			
Triclopyr	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02		< 0.02	< 0.02	< 0.02	I/S	< 0.02			
Organophosphorous pesticides																					
Azinphos-ethyl	0.1	ug/l	UK DWS	0						< 0.01	< 0.01	< 0.01		< 0.01	< 0.01	< 0.01	I/S				
Azinphos-methyl	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	I/S	< 0.01			
Chlorfenvinphos	0.1	ug/l	UK DWS	0						< 0.01	< 0.01	< 0.01		< 0.01	< 0.01	< 0.01	I/S				
Chlorfenvinphos I	0.1	ug/l	UK DWS	0																	
Chlorfenvinphos II	0.1	ug/l	UK DWS	0																	
Chlorpyrifos-methyl	0.1	ug/l	UK DWS	0																	
Diazinon	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	I/S	< 0.01			
Dichlorvos	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	I/S	< 0.01			
Dimethoate	0.1	ug/l	UK DWS	0						< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	I/S				
E-mevinphos	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	I/S	< 0.01			
Z-Mevinphos	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	I/S	< 0.01			
Ethion	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01		< 0.01	< 0.01	< 0.01	< 0.01	I/S	< 0.01			
Fenitrothion	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	I/S	< 0.01			
Fenthion	0.1	ug/l	UK DWS	0						< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	I/S				
Malathion	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	I/S	< 0.01			
Parathion-ethyl	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	I/S	< 0.01			
Parathion-methyl	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	I/S	< 0.01			
Phenylurea herbicides																					
Isoproturon	100	ng/l	UK DWS	0	< 100	< 100	< 100	< 50	< 10	< 10	< 10	< 10		< 10	< 10	< 10	I/S	< 100			
Chlortoluron	100	ng/l	UK DWS	0	< 100	< 100	< 100	< 50	< 10	< 10	< 10	< 10		< 10	< 10	< 10	I/S	< 100			
Diflufenzuron	100	ng/l	UK DWS	0	< 100	< 100	< 100	< 50	< 10	< 10	< 10	< 10		< 10	< 10	< 10	I/S	< 100			
Diuron	100	ng/l	UK DWS	13	< 100	< 100	< 100	< 50	< 10	< 10	< 10	< 10		< 10	< 10	< 10	I/S	200.0			
Linuron	100	ng/l	UK DWS	0	< 100	< 100	< 100	< 50	< 10	< 10	< 10	< 10		< 10	< 10	< 10	I/S	< 100			
Methabenzthiazuron	100	ng/l	UK DWS	0	< 100	< 100	< 100	< 50	< 10	< 10	< 10	< 10		< 10	< 10	< 10	I/S	< 100			
Monolinuron	100	ng/l	UK DWS	0	< 100	< 100	< 100	< 50	< 10	< 10	< 10	< 10		< 10	< 10	< 10	I/S	< 100			
Monuron	100	ng/l	UK DWS	4	< 100	< 100	< 100	< 50	< 10	< 10	< 10	< 10		< 10	< 10	< 10	I/S	< 100			
VFAs																					
Acetic acid	0.01	mg/l	Default	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	I/S	< 10			
Propanoic acid	0.01	mg/l	Default	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	I/S	< 10			
Butyric acid	0.01	mg/l	Default	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	I/S	< 10			
Isobutyric acid	0.01	mg/l	Default	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	I/S	< 10			
Pentanoic acid	0.01	mg/l	Default	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	I/S	< 10			
Isopentanoic acid	0.01	mg/l	Default	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	I/S	< 10			
Hexanoic acid	0.01	mg/l	Default	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	I/S	< 10			
Heptanoic acid	0.01	mg/l	Default	0	< 11	< 11	< 11	< 11	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	I/S	< 11			
Pyrethroids																					
Cyfluthrin	0.1	ug/l	UK DWS	0	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	I/S	< 0.1			
Cypermethrin	100	ng/l	UK DWS	0	< 100	< 100	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	I/S	< 100			
Deltramethrin	0.1	ug/l	UK DWS	0	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	I/S	< 0.1			
Permethrin	0.1	ug/l	UK DWS	0					< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	I/S				
Permethrin	0.1	ug/l	UK DWS	0					< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	I/S				
Organotins																					
Tributyltin compounds	0.2	ng/l	FEQS	0	<10	<10	<10	<10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	I/S	<10			
TPT (Triphenyl Tin)	0.2	ng/l	FEQS	0	<10	<10	<10	<10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	I/S	<10			
DBT (Dibutyl Tin)	0.2	ng/l	FEQS	0	<20	<10	<10	<10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	I/S	<10			
Chlorophenols																					

Appendix G

G8 Groundwater Beneath Landfill

Assessment Scenario

Water Abstraction

Lab Sample ID	Screening value	Units	Screening standard	Summary												
				Number of Exceedances	949606	963813	983104	1000273	1022119	1054026	1076311	1108237	1137545	1165090		
Client Sample No				ARP16-LF-BH03	ARP16-LF-BH03	ARP16-LF-BH03	ARP16-LF-BH03	ARP16-LF-BH03	ARP16-LF-BH03	ARP16-LF-BH03	ARP16-LF-BH03	ARP16-LF-BH03	ARP16-LF-BH03	ARP16-LF-BH03	ARP16-LF-BH03	ARP16-LF-BH03
Client Sample ID																
Depth to Top				41.92	41.55	42.57	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth to Bottom							45.00	None Supplied								
Date Sampled				15/03/17	06/04/17	16/05/17	25/04/2018	18/05/2018	15/06/2018	12/07/2018	13/08/2018	26/09/2018	25/10/2018	05/12/2018	22/01/2019	26/02/2019
Sample Type								None Supplied	1400	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Inorganics																
Organics																
General inorganics																
pH	N/A	pH units	-				7.3	7.2	7.1	7.3	7.6	7.9	7.5	7.3	7.3	7.3
Total Cyanide	50	ug/l	UK DWS	0	< 5	< 5	< 5	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Complex Cyanides	50	ug/l	UK DWS	0	< 5	< 5	< 5	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Free Cyanide	50	ug/l	UK DWS	0	< 5	< 5	< 5	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Thiocyanate as SCN	50	ug/l	UK DWS	2	< 100	< 100	< 100	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200
Sulphate as SO4	250000	ug/l	UK DWS	4	5000	5000	6000	17600	14700	25600	13100	11700	10700	9100	6080	6390
Sulphide	250000	ug/l	UK DWS	0	< 100	< 100	< 100	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chloride	250	mg/l	UK DWS	4	70.4	66.93	66	93	99	93	75	77	86	82	110	100
Fluoride	1500	ug/l	UK DWS	0	170	160	270	130	130	160	150	170	140	120	190	150
Ammoniacal Nitrogen as N	390	ug/l	UK DWS	18	490	500	450	620	150	33	1900	580	290	260	460	360
Nitrate as N	11.3	mg/l	UK DWS	8				0.18	0.14	0.04	0.23	0.21	0.19	0.64	0.02	0.27
Nitrate as NO3	50	mg/l	UK DWS	9	3.62	1.02	1.35	0.8	0.64	0.16	1.01	0.91	0.85	2.83	0.11	1.2
Nitrite as N	160	ug/l	UK DWS	0				7.4	7.5	12	11	19	20	96	8.5	4.9
Nitrite as NO2	500	ug/l	UK DWS	2	< 100	< 100	130	24	25	39	37	61	67	310	28	16
Alkalinity	N/A	mg/l	-	0	198	205	235	380	440	550	430	500	410	210	220	220
Chemical Oxygen Demand (COD)	N/A	mg/l	-	0	< 6	12	13	< 2.0	4.7	43	6.7	15	2.9	97	< 2.0	< 2.0
Biological Oxygen Demand (BOD)	N/A	mg/l	-	0	4	9	11	1.5	1.6	< 1.0	1.2	1.7	< 1.0	2.7	47	< 1.0
Total Oxidised N (Nitrate/-ite)	11.3	mg/l	UK DWS	9	0.8	0.3	0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	0.7	< 0.3	< 0.3
Total Suspended Solids	N/A	mg/l	-	0	16	1233	842	27	34	190	36	30	26	4300	< 2.0	8
Hardness - Total	N/A	mg/l	-	0	204	226	255	249	230	281	306	304	337	294	255	265
Bromide	N/A	mg/l	-	0				0.1	0.097	0.14	0.089	0.095	0.081	0.092	0.13	0.32
Bromate	0.01	mg/l	UK DWS	0				< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Phenols																
Catechol	7.7	ug/l	FEQS	0				< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Resorcinol	7.7	ug/l	FEQS	0	< 10	< 10	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Ethylphenol & Dimethylphenol	100	ug/l	FEQS	0				< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Cresols	100	ug/l	FEQS	0	< 10	< 10	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Naphthols	7.7	ug/l	FEQS	0				< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Isopropylphenol	7.7	ug/l	FEQS	0				< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Phenol	7.7	ug/l	FEQS	0	< 10	< 10	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Trimethylphenol	100	ug/l	FEQS	0				< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Speciated PAHs																
Naphthalene	2	ug/l	FEQS	0	0.02	< 0.01	0.05	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthylene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthene	2000	ug/l	USEPA	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluorene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Phenanthrene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Anthracene	0.1	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluoranthene	0.0063	ug/l	FEQS	8	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Pyrene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)anthracene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Chrysene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(b)fluoranthene	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(k)fluoranthene	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)pyrene	0.01	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Indeno(1,2,3-cd)pyrene	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Dibenzo(a,h)anthracene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(g,h,i)perylene	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Heavy metals and metalloids																

Appendix G

G8 Groundwater Beneath Landfill

Assessment Scenario

Water Abstraction

Lab Sample ID	Screening value	Units	Screening standard	Summary													
				Number of Exceedances	949606	963813	983104	1000273	1022119	1054026	1076311	1108237	1137545	1165090			
Client Sample No					ARP16-LF-BH03	ARP16-LF-BH03	ARP16-LF-BH03	ARP16-LF-BH03	ARP16-LF-BH03	ARP16-LF-BH03	ARP16-LF-BH03	ARP16-LF-BH03	ARP16-LF-BH03	ARP16-LF-BH03	ARP16-LF-BH03	ARP16-LF-BH03	
Client Sample ID					None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	
Depth to Top					41.92	41.55	42.57	None Supplied	None Supplied	None Supplied	37.23-51.94	None Supplied	None Supplied	None Supplied	None Supplied	50	
Depth to Bottom								45.00	None Supplied								
Date Sampled					15/03/17	06/04/17	16/05/17	25/04/2018	18/05/2018	15/06/2018	12/07/2018	13/08/2018	26/09/2018	25/10/2018	05/12/2018	22/01/2019	26/02/2019
Sample Type									None Supplied		1400	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Trifluralin	0.1	ug/l	UK DWS	0				< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Organonitrogen pesticides																	
Bentazone	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Fluroxypyr	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Triclopyr	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Organophosphorous pesticides																	
Azinphos-ethyl	0.1	ug/l	UK DWS	0				< 0.01	< 0.01	< 0.01		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Azinphos-methyl	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Chlorfenvinphos	0.1	ug/l	UK DWS	0				< 0.01	< 0.01	< 0.01		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Chlorfenvinphos I	0.1	ug/l	UK DWS	0													
Chlorfenvinphos II	0.1	ug/l	UK DWS	0													
Chlorpyrifos-methyl	0.1	ug/l	UK DWS	0													
Diazinon	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dichlorvos	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dimethoate	0.1	ug/l	UK DWS	0				< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
E-mevinphos	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Z-Mevinphos	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Ethion	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fenitrothion	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fenthion	0.1	ug/l	UK DWS	0				< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Malathion	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Parathion-ethyl	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Parathion-methyl	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Phenylurea herbicides																	
Isoproturon	100	ng/l	UK DWS	0	< 100	< 100	< 50	< 10	< 10	< 10		< 10	< 10	< 10	< 10	< 10	< 10
Chlortoluron	100	ng/l	UK DWS	0	< 100	< 100	< 50	< 10	< 10	< 10		< 10	< 10	< 10	< 10	< 10	< 10
Diflufenzuron	100	ng/l	UK DWS	0	< 100	< 100	< 50	< 10	< 10	< 10		< 10	< 10	< 10	< 10	< 10	< 10
Diuron	100	ng/l	UK DWS	13	200.0	< 100	200.0	230	220	160		260	220	230	< 10	210	290
Linuron	100	ng/l	UK DWS	0	< 100	< 100	< 50	< 10	< 10	< 10		< 10	< 10	< 10	< 10	< 10	< 10
Methabenzthiazuron	100	ng/l	UK DWS	0	< 100	< 100	< 50	< 10	< 10	< 10		< 10	< 10	< 10	< 10	< 10	< 10
Monolinuron	100	ng/l	UK DWS	0	< 100	< 100	< 50	< 10	< 10	< 10		< 10	< 10	< 10	< 10	< 10	< 10
Monuron	100	ng/l	UK DWS	4	< 100	< 100	60.0	170	220	260		69	82.000	77.000	38.000	50.000	110
VFAs																	
Acetic acid	0.01	mg/l	Default	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Propanoic acid	0.01	mg/l	Default	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Butyric acid	0.01	mg/l	Default	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Isobutyric acid	0.01	mg/l	Default	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Pentanoic acid	0.01	mg/l	Default	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Isopentanoic acid	0.01	mg/l	Default	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Hexanoic acid	0.01	mg/l	Default	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Heptanoic acid	0.01	mg/l	Default	0	< 11	< 11	< 11	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Pyrethroids																	
Cyfluthrin	0.1	ug/l	UK DWS	0	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Cypermethrin	100	ng/l	UK DWS	0	< 100	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Deltramethrin	0.1	ug/l	UK DWS	0	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Permethrin	0.1	ug/l	UK DWS	0				< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Permethrin	0.1	ug/l	UK DWS	0				< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Organotins																	
Tributyltin compounds	0.2	ng/l	FEQS	0	<10	<10	<10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
TPT (Triphenyl Tin)	0.2	ng/l	FEQS	0	<10	<10	<10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
DBT (Dibutyl Tin)	0.2	ng/l	FEQS	0	<10	<10	<10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Chlorophenols																	

Appendix G

G8 Groundwater Beneath Landfill

Assessment Scenario

Water Abstraction

Lab Sample ID	Screening value	Units	Screening standard	Summary														
				Number of Exceedances	1179545	ARP16-LF-BH03	ARP16-LF-BH04	ARP16-LF-BH04	ARP16-LF-BH04	ARP16-LF-BH04	ARP16-LF-BH04	948968	962833	981283	1000274	ARP16-LF-BH08	ARP16-LF-BH08	ARP16-LF-BH08
Client Sample No																		
Client Sample ID																		
Depth to Top					None Supplied	43.80	43.65	46.94	46.22	None Supplied	None Supplied	None Supplied	None Supplied	41.35-59.30	43.75	44.30	44.50	44.47
Depth to Bottom					39.42-53.15					None Supplied	None Supplied							
Date Sampled					18/03/2019	07/02/17	15/03/17	06/04/17	16/05/17	24/04/2018	17/05/2018	13/06/2018	12/07/2018	07/02/17	16/03/17	06/04/17	16/05/17	
Sample Type												None Supplied	1140					
Inorganics																		
Organics																		
General inorganics																		
pH	N/A	pH units	-		7.4					6.8	6.6	6.7	6.6					
Total Cyanide	50	ug/l	UK DWS	0	< 10	< 5	< 5	< 5	< 5	< 10	< 10	< 10	< 10	< 5	< 5	< 5	< 5	
Complex Cyanides	50	ug/l	UK DWS	0	< 10	< 5	< 5	< 5	< 5	< 10	< 10	< 10	< 10	< 5	< 5	< 5	< 5	
Free Cyanide	50	ug/l	UK DWS	0	< 10	< 5	< 5	< 5	< 5	< 10	< 10	< 10	< 10	< 5	< 5	< 5	< 5	
Thiocyanate as SCN	50	ug/l	UK DWS	2	< 200	< 100	< 100	< 100	< 100	< 200	< 200	< 200	< 200	< 100	< 100	< 100	< 100	
Sulphate as SO4	250000	ug/l	UK DWS	4	6330	123000	17000	17000	19000	17700	22300	31400	19200	8000	14000	11000	15000	
Sulphide	250000	ug/l	UK DWS	0	< 5.0	< 100	< 100	< 100	< 100	< 5.0	< 5.0	< 5.0	< 5.0	< 100	< 100	< 100	< 100	
Chloride	250	mg/l	UK DWS	4	110	94.2	104.7	102	98	100	79	150	110	124	118.2	96.45	121	
Fluoride	1500	ug/l	UK DWS	0	210	< 100	140	140	430	84	98	120	120	130	150	150	320	
Ammoniacal Nitrogen as N	390	ug/l	UK DWS	18	670	< 20	< 20	100	70	170	99	85	32	< 20	< 20	50	20	
Nitrate as N	11.3	mg/l	UK DWS	8	0.4					0.13	0.71	0.17	0.88					
Nitrate as NO3	50	mg/l	UK DWS	9	1.77	4.83	59.21	4.04	3.37	0.58	3.14	0.74	3.89	5.28	< 0.10	8.72	1.5	
Nitrite as N	160	ug/l	UK DWS	0	< 1.0					8.2	29	20	8.1					
Nitrite as NO2	500	ug/l	UK DWS	2	< 5.0	280	200	190	< 100	27	95	65	27	< 100	< 100	< 100	< 100	
Alkalinity	N/A	mg/l	-	0	450	422	412	406	408	800	660	800	720	377	395	382	389	
Chemical Oxygen Demand (COD)	N/A	mg/l	-	0	2.4	25	< 6	16	34	19	22	20	14	16	21	9	16	
Biological Oxygen Demand (BOD)	N/A	mg/l	-	0	< 1.0	< 1	3	1	12	2.1	1.5	1.4	2.1	< 1	< 1	< 1	1	
Total Oxidised N (Nitrate/-ite)	11.3	mg/l	UK DWS	9	0.4	1.2	13.4	1	0.8	< 0.3	0.7	< 0.3	0.9	1.2	< 0.1	2	1.5	
Total Suspended Solids	N/A	mg/l	-	0	20	654	1229	66	3744	64	100	78	36	133	101	19056	8700	
Hardness - Total	N/A	mg/l	-	0	244	598	777	689	789	598	613	700	787	555	635	533	633	
Bromide	N/A	mg/l	-	0	0.09					0.73	0.84	0.43	0.65					
Bromate	0.01	mg/l	UK DWS	0	< 0.002					< 0.002	< 0.002	< 0.002	< 0.002					
Phenols																		
Catechol	7.7	ug/l	FEQS	0	< 0.5					< 0.5	< 0.5	< 0.5	< 0.5					
Resorcinol	7.7	ug/l	FEQS	0	< 0.5	< 10	< 10	< 10	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 10	< 10	< 10	
Ethylphenol & Dimethylphenol	100	ug/l	FEQS	0	< 0.5					< 0.5	< 0.5	< 0.5	< 0.5					
Cresols	100	ug/l	FEQS	0	< 0.5	< 10	< 10	< 10	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 10	< 10	< 10	
Naphthols	7.7	ug/l	FEQS	0	< 0.5					< 0.5	< 0.5	< 0.5	< 0.5					
Isopropylphenol	7.7	ug/l	FEQS	0	< 0.5					< 0.5	< 0.5	< 0.5	< 0.5					
Phenol	7.7	ug/l	FEQS	0	< 0.5	< 10	< 10	< 10	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 10	< 10	< 10	
Trimethylphenol	100	ug/l	FEQS	0	< 0.5					< 0.5	< 0.5	< 0.5	< 0.5					
Speciated PAHs																		
Naphthalene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.02	0.06	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.02	< 0.01	0.03	
Acenaphthylene	2	ug/l	FEQS	0	< 0.01	0.03	< 0.01	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.03	< 0.02	< 0.01	< 0.01	
Acenaphthene	2000	ug/l	USEPA	0	< 0.01	< 0.01	< 0.01	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.02	< 0.01	< 0.01	
Fluorene	2	ug/l	FEQS	0	< 0.01	0.03	< 0.01	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.03	< 0.02	< 0.01	< 0.01	
Phenanthrene	2	ug/l	FEQS	0	< 0.01	0.09	< 0.01	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.07	< 0.02	< 0.01	< 0.01	
Anthracene	0.1	ug/l	FEQS	0	< 0.01	0.02	< 0.01	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.02	< 0.02	< 0.01	< 0.01	
Fluoranthene	0.0063	ug/l	FEQS	8	< 0.01	0.02	< 0.01	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.03	< 0.02	< 0.01	< 0.01	
Pyrene	2	ug/l	FEQS	0	< 0.01	0.03	< 0.01	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.04	< 0.02	< 0.01	< 0.01	
Benzo(a)anthracene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.02	< 0.01	< 0.01	
Chrysene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.02	< 0.01	< 0.01	
Benzo(b)fluoranthene	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.02	< 0.01	< 0.01	
Benzo(k)fluoranthene	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.02	< 0.01	< 0.01	
Benzo(a)pyrene	0.01	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.02	< 0.01	< 0.01	
Indeno(1,2,3-cd)pyrene	0.1	ug/l	UK DWS	0	< 0.001	< 0.01	< 0.01	< 0.02	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.02	< 0.01	< 0.01	
Dibenzo(a,h)anthracene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.02	< 0.01	< 0.01	
Benzo(g,h,i)perylene	0.1	ug/l	UK DWS	0	< 0.001	< 0.01	< 0.01	< 0.02	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.02	< 0.01	< 0.01	
Heavy metals and metalloids																		

Appendix G

G8 Groundwater Beneath Landfill

Assessment Scenario

Water Abstraction

Lab Sample ID	Screening value	Units	Screening standard	Summary														
				Number of Exceedances	1179545	ARP16-LF-BH03	ARP16-LF-BH04	ARP16-LF-BH04	ARP16-LF-BH04	ARP16-LF-BH04	ARP16-LF-BH04	948968	962833	981283	1000274	ARP16-LF-BH08	ARP16-LF-BH08	ARP16-LF-BH08
Client Sample No					None Supplied	43.80	43.65	46.94	46.22	None Supplied	None Supplied	None Supplied	None Supplied	41.35-59.30	43.75	44.30	44.50	44.47
Client Sample ID					39.42-53.15					None Supplied	None Supplied							
Depth to Top					18/03/2019	07/02/17	15/03/17	06/04/17	16/05/17	24/04/2018	17/05/2018	13/06/2018	12/07/2018	07/02/17	16/03/17	06/04/17	16/05/17	
Depth to Bottom												None Supplied	1140					
Date Sampled																		
Sample Type																		
Antimony	5	ug/l	UK DWS	0	< 0.4	< 1	< 1	< 1	< 1	< 0.4	< 0.4	< 0.4	< 0.4	< 1	< 1	< 1	< 1	
Arsenic	10	ug/l	UK DWS	0	2.33	1.0	1.0	1.0	< 1	0.69	0.44	0.28	0.3	1.0	1.0	4.0	< 1	
Barium	700	ug/l	WHO	0	120					190	230	250	150					
Beryllium	4	ug/l	USEPA	0	< 0.1	< 1	< 1	< 1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 1	< 1	< 1	< 1	
Boron	1000	ug/l	UK DWS	7	20					180	230	300	150					
Cadmium >200mg/l CaCO3	5	ug/l	UK DWS	0	< 0.02	< 0.2	< 0.2	< 0.2	< 0.2	< 0.02	< 0.02	< 0.02	< 0.02	< 0.2	< 0.2	< 0.2	< 0.2	
Calcium	N/A	mg/l	-	0	95	232.0	303.0	268.0	306.0	230	240	270	310	218.0	248.0	209.0	248.0	
Chromium VI	3.4	ug/l	FEQS	0	< 5.0	< 10	< 10	< 10	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10	< 10	< 10	
Chromium III	4.7	ug/l	FEQS	0	< 1.0					2.3	< 1.0	< 1.0	< 1.0					
Chromium Total	50	ug/l	UK DWS	0	< 0.2	< 1	7.0	5.0	< 1	2.3	0.7	0.8	0.9	7.0	< 1	< 1	2.0	
Copper (bioavailable), DOC <1mg/l	2000	ug/l	UK DWS	0	1.5	1.0	2.0	2.0	5.0	3		2.6	< 0.5	1.0	< 1	1.0	< 1	
Iron	0.2	mg/l	UK DWS	9	0.18	0.021	< 0.01	0.012	0.06	0.16	< 0.004	0.056	0.005	0.035	0.074	0.018	0.037	
Lead	10	ug/l	UK DWS	0	0.2	< 1	< 1	< 1	2.0	0.6	0.3	0.4	< 0.2	< 1	< 1	< 1	< 1	
Magnesium	N/A	mg/l	-	0	1.8	5.0	5.0	5.0	6.0	4.4	5	5	4.3	3.0	3.0	3.0	3.0	
Manganese (bioavailable)	50	ug/l	UK DWS	50	210	98.0	90.0	86.0	103.0	83	88	81	54	209.0	122.0	47.0	110.0	
Mercury	1	ug/l	UK DWS	3	< 0.05	0.1	< 0.1	< 0.1	< 0.1	< 0.05	0.07	< 0.05	0.13	0.1	< 0.1	< 0.1	< 0.1	
Molybdenum	70	ug/l	WHO	0	0.39					0.16	< 0.05	0.29	0.12					
Nickel >200 mg/l CaCO3	20	ug/l	UK DWS	4	4.8	5.0	6.0	6.0	4.0	5.1	6.4	7.3	3.8	9.0	15.0	5.0	8.0	
Potassium	N/A	mg/l	-	0	6.1	2.0	< 1	1.0	2.0	1.1	0.99	1.1	0.89	< 1	1.0	1.0	2.0	
Selenium	10	ug/l	UK DWS	2	< 0.6	< 1	< 1	< 1	< 1	2.5	3.1	2.2	1.8	< 1	< 1	< 1	< 1	
Sodium	50	mg/l	WHO	25	55	15.0	17.0	18.0	15.0	18	23	24	15	26.0	27.0	21.0	27.0	
Vanadium	20	ug/l	FEQS	0	< 0.2	< 1	< 1	< 1	< 1	0.6	0.3	0.3	0.2	< 1	< 1	< 1	< 1	
Zinc >250 mg/l CaCO3	5000	ug/l	USEPA	0	2.8	14.0	8.0	4.0	12.0	6.7	2	3.2	5.3	11.0	5.0	9.0	8.0	
Monoaromatics																		
Benzene	1	ug/l	UK DWS	0	< 1.0	< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	
Toluene	74	ug/l	FEQS	0	< 1.0	< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	
Ethylbenzene	20	ug/l	FEQS	0	< 1.0	< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	
Xylenes	30	ug/l	FEQS	0	< 1.0					< 1.0	< 1.0	< 1.0	< 1.0					
MTBE	15	ug/l	WHO	0	< 1.0	< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	
Petroleum hydrocarbons																		
TPH	N/A	ug/l	-	0	< 5	< 5	< 5	< 5	< 5					< 5	< 5	< 5	< 5	
TPH >C5-C6 Aliphatics	15000	ug/l	WHO	0	< 1.0	< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	
TPH >C6-C8 Aliphatics	15000	ug/l	WHO	0	< 1.0	< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	
TPH >C8-C10 Aliphatics	300	ug/l	WHO	0	< 1.0	< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	
TPH >C10-C12 Aliphatics	300	ug/l	WHO	0	< 10	< 5	< 5	< 5	< 5	< 10	< 10	< 10	< 10	< 5	< 5	< 5	< 5	
TPH >C12-C16 Aliphatics	300	ug/l	WHO	0	< 10	< 5	< 5	< 5	< 5	< 10	< 10	< 10	< 10	< 5	< 5	< 5	< 5	
TPH >C16-C21 Aliphatics	300	ug/l	WHO	0	< 10	< 5	< 5	< 5	< 5	< 10	< 10	< 10	< 10	< 5	< 5	< 5	< 5	
TPH >C21-C35 Aliphatics	300	ug/l	WHO	2	< 10	< 5	< 5	< 5	< 5	< 10	< 10	< 10	< 10	< 5	< 5	< 5	< 5	
TPH-CWG - Aliphatic >C16 - C35	300	ug/l	WHO	1	< 10					< 10	< 10	< 10	< 10					
TPH-CWG - Aliphatic >C35 - C44	300	ug/l	WHO	0	< 10	< 5	< 5	< 5	< 5	< 10	< 10	< 10	< 10	< 5	< 5	< 5	< 5	
C5-C35 Aliphatics	N/A	ug/l	-	0	< 10					< 10	< 10	< 10	< 10					
TPH-CWG - Aliphatic (C5 - C44)	N/A	ug/l	-	0	< 10					< 10	< 10	< 10	< 10					
TPH >C5-C6 Aromatics	10	ug/l	WHO	0	< 1.0	< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	
TPH >C7-C8 Aromatics	700	ug/l	WHO	0	< 1.0	< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	
TPH >C8-C9 Aromatics	300	ug/l	WHO	0														
TPH >C9-C10 Aromatics	300	ug/l	WHO	0														
TPH >C8-C10 Aromatics	300	ug/l	WHO	0	< 1.0	< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	
TPH >C10-C12 Aromatics	90	ug/l	WHO	0	< 10	< 5	< 5	< 5	< 5	< 10	< 10	< 10	< 10					
TPH >C12-C16 Aromatics	90	ug/l	WHO	0	< 10	< 5	< 5	< 5	< 5	< 10	< 10	< 10	< 10					
TPH >C16-C21 Aromatics	90	ug/l	WHO	0	< 10	< 5	< 5	< 5	< 5	< 10	< 10	< 10	< 10					
TPH >C21-C35 Aromatics	90	ug/l	WHO	0	< 10	< 5	< 5	< 5	< 5	< 10	< 10	< 10	< 10					
TPH >C35-C44 Aromatics	90	ug/l	WHO	0	< 10	< 5	< 5	< 5	< 5	< 10	< 10	< 10	< 10					

Appendix G G8 Groundwater Beneath Landfill

Assessment Scenario

Water Abstraction

Lab Sample ID	Screening value	Units	Screening standard	Summary																	
				Number of Exceedances	1179545	1179545	1179545	1179545	1179545	1179545	1179545	1179545	1179545	1179545	1179545	1179545	1179545	1179545	1179545	1179545	1179545
Client Sample No					1179545	ARP16-LF-BH03	ARP16-LF-BH04	ARP16-LF-BH04	ARP16-LF-BH04	ARP16-LF-BH04	948968	962833	981283	1000274	ARP16-LF-BH08	ARP16-LF-BH08	ARP16-LF-BH08	ARP16-LF-BH08	ARP16-LF-BH08	ARP16-LF-BH08	
Client Sample ID											None Supplied	None Supplied	None Supplied	None Supplied							
Depth to Top					None Supplied	43.80	43.65	46.94	46.22	None Supplied	None Supplied	None Supplied	None Supplied	41.35-59.30	43.75	44.30	44.50	44.47			
Depth to Bottom					39.42-53.15					None Supplied	None Supplied										
Date Sampled					18/03/2019	07/02/17	15/03/17	06/04/17	16/05/17	24/04/2018	17/05/2018	13/06/2018	12/07/2018	07/02/17	16/03/17	06/04/17	16/05/17				
Sample Type													None Supplied	1140							
Trifluralin	0.1	ug/l	UK DWS	0	< 0.01					< 0.01	< 0.01	< 0.01	< 0.01								
Organonitrogen pesticides																					
Bentazone	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	
Fluroxypyr	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	
Triclopyr	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	
Organophosphorous pesticides																					
Azinphos-ethyl	0.1	ug/l	UK DWS	0	< 0.01					< 0.01	< 0.01	< 0.01									
Azinphos-methyl	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	
Chlorfenvinphos	0.1	ug/l	UK DWS	0	< 0.01					< 0.01	< 0.01	< 0.01									
Chlorfenvinphos I	0.1	ug/l	UK DWS	0						< 0.01											
Chlorfenvinphos II	0.1	ug/l	UK DWS	0						< 0.01											
Chlorpyrifos-methyl	0.1	ug/l	UK DWS	0						< 0.01											
Diazinon	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	
Dichlorvos	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	
Dimethoate	0.1	ug/l	UK DWS	0	< 0.01					< 0.01	< 0.01	< 0.01	< 0.01								
E-mevinphos	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	
Z-Mevinphos	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	
Ethion	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01			< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	
Fenitrothion	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	
Fenthion	0.1	ug/l	UK DWS	0	< 0.01					< 0.01	< 0.01	< 0.01	< 0.01	< 0.01							
Malathion	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	
Parathion-ethyl	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	
Parathion-methyl	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	
Phenylurea herbicides																					
Isoproturon	100	ng/l	UK DWS	0	< 10	< 100	< 100	< 100	< 50	< 10	< 10	< 10		< 100	< 100	< 100	< 100	< 50			
Chlortoluron	100	ng/l	UK DWS	0	< 10	< 100	< 100	< 100	< 50	< 10	< 10	< 10		< 100	< 100	< 100	< 100	< 50			
Diflufenbuzon	100	ng/l	UK DWS	0	< 10	< 100	< 100	< 100	< 50	< 10	< 10	< 10		< 100	< 100	< 100	< 100	< 50			
Diuron	100	ng/l	UK DWS	13	200	< 100	< 100	< 100	< 50	< 10	< 10	< 10		< 100	< 100	< 100	< 100	< 50			
Linuron	100	ng/l	UK DWS	0	< 10	< 100	< 100	< 100	< 50	< 10	< 10	< 10		< 100	< 100	< 100	< 100	< 50			
Methabenzthiazuron	100	ng/l	UK DWS	0	< 10	< 100	< 100	< 100	< 50	< 10	< 10	< 10		< 100	< 100	< 100	< 100	< 50			
Monolinuron	100	ng/l	UK DWS	0	< 10	< 100	< 100	< 100	< 50	< 10	< 10	< 10		< 100	< 100	< 100	< 100	< 50			
Monuron	100	ng/l	UK DWS	4	35	< 100	< 100	< 100	< 50	< 10	< 10	< 10		< 100	< 100	< 100	< 100	< 50			
VFAs																					
Acetic acid	0.01	mg/l	Default	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	
Propanoic acid	0.01	mg/l	Default	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	
Butyric acid	0.01	mg/l	Default	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	
Isobutyric acid	0.01	mg/l	Default	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	
Pentanoic acid	0.01	mg/l	Default	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	
Isopentanoic acid	0.01	mg/l	Default	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	
Hexanoic acid	0.01	mg/l	Default	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	
Heptanoic acid	0.01	mg/l	Default	0	< 10	< 11	< 11	< 11	< 11	< 10	< 10	< 10	< 10	< 11	< 11	< 11	< 11	< 11	< 11	< 11	
Pyrethroids																					
Cyfluthrin	0.1	ug/l	UK DWS	0	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	
Cypermethrin	100	ng/l	UK DWS	0	< 10	< 100	< 100	< 100	< 100	< 10	< 10	< 10	< 10	< 100	< 100	< 100	< 100	< 100	< 100	< 100	
Deltramethrin	0.1	ug/l	UK DWS	0	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	
Permethrin	0.1	ug/l	UK DWS	0	< 0.01					< 0.01	< 0.01	< 0.01	< 0.01	< 0.01							
Permethrin	0.1	ug/l	UK DWS	0	< 0.01					< 0.01	< 0.01	< 0.01	< 0.01	< 0.01							
Organotins																					
Tributyltin compounds	0.2	ng/l	FEQS	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	
TPT (Triphenyl Tin)	0.2	ng/l	FEQS	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	
DBT (Dibutyl Tin)	0.2	ng/l	FEQS	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	
Chlorophenols																					

Appendix G G8 Groundwater Beneath Landfill

Assessment Scenario

Water Abstraction

					Summary													
Lab Sample ID	Screening value	Units	Screening standard	Number of Exceedances	1179545					948968	962833	981283	1000274					
Client Sample No					ARP16-LF-BH03	ARP16-LF-BH04	ARP16-LF-BH04	ARP16-LF-BH04	ARP16-LF-BH04	ARP16-LF-BH04	ARP16-LF-BH04	ARP16-LF-BH04	ARP16-LF-BH04	ARP16-LF-BH04	ARP16-LF-BH04	ARP16-LF-BH04	ARP16-LF-BH08	ARP16-LF-BH08
Client Sample ID					None Supplied					None Supplied	None Supplied	None Supplied	None Supplied					
Depth to Top					39.42-53.15	43.80	43.65	46.94	46.22	None Supplied	None Supplied	None Supplied	41.35-59.30	43.75	44.30	44.50	44.47	
Depth to Bottom										None Supplied	None Supplied							
Date Sampled					18/03/2019	07/02/17	15/03/17	06/04/17	16/05/17	24/04/2018	17/05/2018	13/06/2018	12/07/2018	07/02/17	16/03/17	06/04/17	16/05/17	
Sample Type												None Supplied	1140					
Pentachlorophenol	0.0004	mg/l	FEQS	0	< 0.05	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.05	< 0.05	< 0.05	< 0.05	< 0.00002	< 0.00002	< 0.00002	< 0.00002	
Others																		
Bromoform	0.1	mg/l	WHO	0		< 0.001	< 0.001	< 0.001	< 0.001					< 0.001	< 0.001	< 0.001	< 0.001	
Carbon Tetrachloride	0.003	mg/l	UK DWS	0														
Lambda-cyhalothrin	0.1	ug/l	UK DWS	0														
Methane	N/A	ug/l	-	0	2	2	< 2	< 1	< 1					1	< 1	< 1	8	

Appendix G

G8 Groundwater Beneath Landfill

Assessment Scenario Water Abstraction

Lab Sample ID	Screening value	Units	Screening standard	Summary														
				Number of Exceedances	951126	962359	983106	999560	1022636	1054027	1074200	1095806	1108238	1165089	1180861	ARP16-LF-BH10	ARP16-LF-BH10	
Client Sample No					ARP16-LF-BH08	ARP16-LF-BH08	ARP16-LF-BH08	ARP16-LF-BH08	ARP16-LF-BH08	ARP16-LF-BH08	ARP16-LF-BH08	ARP16-LF-BH08	ARP16-CP-BH08	ARP16-CP-BH08	ARP16-LF-BH08	ARP16-LF-BH08	ARP16-LF-BH10	ARP16-LF-BH10
Client Sample ID					None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied		
Depth to Top					None Supplied	None Supplied	None Supplied	40.46-57.05	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	29.65	31.00
Depth to Bottom					None Supplied	None Supplied									44.16-57.00	43.60-58.40		
Date Sampled					26/04/2018	16/05/2018	14/06/2018	11/07/2018	13/08/2018	26/09/2018	22/10/2018	20/11/2018	05/12/2018	26/02/2019	19/03/2019	09/02/17	16/03/17	
Sample Type					None Supplied		None Supplied	1245	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied				
Inorganics																		
General inorganics																		
pH	N/A	pH units	-		6.6	6.6	6.7	6.8	6.8	6.6	6.7	6.8	6.8	6.8	6.9			
Total Cyanide	50	ug/l	UK DWS	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5	8	
Complex Cyanides	50	ug/l	UK DWS	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5	< 5	
Free Cyanide	50	ug/l	UK DWS	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5	< 5	
Thiocyanate as SCN	50	ug/l	UK DWS	2	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 100	< 100	
Sulphate as SO4	250000	ug/l	UK DWS	4	27200	24000	34800	11700	30600	31000	27200	10100	14200	8500	12200	104000	82000	
Sulphide	250000	ug/l	UK DWS	0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 100	< 100	
Chloride	250	mg/l	UK DWS	4	220	280	260	110	190	220	230	94	110	78	88	57.88	65.01	
Fluoride	1500	ug/l	UK DWS	0	130	130	93	93	94	92	130	110	130	110	110	200	160	
Ammoniacal Nitrogen as N	390	ug/l	UK DWS	18	< 15	150	70	35	110	140	84	37	130	< 15	33	< 20	< 20	
Nitrate as N	11.3	mg/l	UK DWS	8	0.55	0.01	0.02	1.72	0.01	0.02	0.07	2.54	2.07	2.22	2.22			
Nitrate as NO3	50	mg/l	UK DWS	9	2.44	0.05	0.11	7.63	0.05	0.11	0.32	11.3	9.18	9.84	9.84	0.84	12.09	
Nitrite as N	160	ug/l	UK DWS	0	< 1.0	15	2.2	< 1.0	6.8	14	9.3	3.2	8.2	5.8	10			
Nitrite as NO2	500	ug/l	UK DWS	2	< 5.0	50	7.3	< 5.0	22	45	31	10	27	19	33	210	< 100	
Alkalinity	N/A	mg/l	-	0	760	820	820	620	680	540	610	330	530	360	660	248	374	
Chemical Oxygen Demand (COD)	N/A	mg/l	-	0	23	27	54	9.2	32	23	11	5.9	< 2.0	12	31	16	10	
Biological Oxygen Demand (BOD)	N/A	mg/l	-	0	1.9	1.2	1.3	1.1	1	1	< 1.0	< 1.0	14	2.1	< 1.0	5	4	
Total Oxidised N (Nitrate/-ite)	11.3	mg/l	UK DWS	9	0.6	< 0.3	< 0.3	1.7	< 0.3	< 0.3	< 0.3	2.5	2.1	2.2	2.2	0.3	2.7	
Total Suspended Solids	N/A	mg/l	-	0	150	370	< 2.0	24	120	42	8	30	55	24	140	10349	532	
Hardness - Total	N/A	mg/l	-	0	686	668	786	430	687	851	685	560	566	565	543	255	550	
Bromide	N/A	mg/l	-	0	1.6	1.6	4.3	0.72	1.6	1.6	2	0.8	1.3	0.56	0.65			
Bromate	0.01	mg/l	UK DWS	0	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002			
Phenols																		
Catechol	7.7	ug/l	FEQS	0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	
Resorcinol	7.7	ug/l	FEQS	0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 10
Ethylphenol & Dimethylphenol	100	ug/l	FEQS	0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	
Cresols	100	ug/l	FEQS	0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10
Naphthols	7.7	ug/l	FEQS	0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	
Isopropylphenol	7.7	ug/l	FEQS	0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	
Phenol	7.7	ug/l	FEQS	0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 10
Trimethylphenol	100	ug/l	FEQS	0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	
Speciated PAHs																		
Naphthalene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthylene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthene	2000	ug/l	USEPA	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluorene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Phenanthrene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Anthracene	0.1	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluoranthene	0.0063	ug/l	FEQS	8	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Pyrene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)anthracene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Chrysene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(b)fluoranthene	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(k)fluoranthene	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)pyrene	0.01	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Indeno(1,2,3-cd)pyrene	0.1	ug/l	UK DWS	0	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Dibenzo(a,h)anthracene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(g,h,i)perylene	0.1	ug/l	UK DWS	0	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Heavy metals and metalloids																		

Appendix G

G8 Groundwater Beneath Landfill

Assessment Scenario

Water Abstraction

Lab Sample ID	Screening value	Units	Screening standard	Summary																	
				Number of Exceedances		951126	962359	983106	999560	1022636	1054027	1074200	1095806	1108238	1165089	1180861	ARP16-LF-BH10	ARP16-LF-BH10			
Client Sample No						ARP16-LF-BH08	ARP16-LF-BH08	ARP16-LF-BH08	ARP16-LF-BH08	ARP16-LF-BH08	ARP16-LF-BH08	ARP16-LF-BH08	ARP16-CP-BH08	ARP16-CP-BH08	ARP16-LF-BH08	ARP16-LF-BH08	ARP16-LF-BH10	ARP16-LF-BH10			
Client Sample ID						None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Depth to Top						None Supplied	None Supplied	None Supplied	40.46-57.05	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	29.65	31.00			
Depth to Bottom						None Supplied	None Supplied								44.16-57.00	43.60-58.40					
Date Sampled						26/04/2018	16/05/2018	14/06/2018	11/07/2018	13/08/2018	26/09/2018	22/10/2018	20/11/2018	05/12/2018	26/02/2019	19/03/2019	09/02/17	16/03/17			
Sample Type						None Supplied		None Supplied	1245	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied							
Trifluralin	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Organonitrogen pesticides																					
Bentazone	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02			
Fluroxypyr	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02			
Triclopyr	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02			
Organophosphorous pesticides																					
Azinphos-ethyl	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01			
Azinphos-methyl	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01			
Chlorfenvinphos	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01			
Chlorfenvinphos I	0.1	ug/l	UK DWS	0																	
Chlorfenvinphos II	0.1	ug/l	UK DWS	0																	
Chlorpyrifos-methyl	0.1	ug/l	UK DWS	0																	
Diazinon	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01			
Dichlorvos	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01			
Dimethoate	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01			
E-mevinphos	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01			
Z-Mevinphos	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01			
Ethion	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01			
Fenitrothion	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01			
Fenthion	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01			
Malathion	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01			
Parathion-ethyl	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01			
Parathion-methyl	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01			
Phenylurea herbicides																					
Isoproturon	100	ng/l	UK DWS	0	< 10	< 10	< 10		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 100	< 100			
Chlortoluron	100	ng/l	UK DWS	0	< 10	< 10	< 10		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 100	< 100			
Diflufenzuron	100	ng/l	UK DWS	0	< 10	< 10	< 10		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 100	< 100			
Diuron	100	ng/l	UK DWS	13	< 10	< 10	< 10		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 100	< 100			
Linuron	100	ng/l	UK DWS	0	< 10	< 10	< 10		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 100	< 100			
Methabenzthiazuron	100	ng/l	UK DWS	0	< 10	< 10	< 10		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 100	< 100			
Monolinuron	100	ng/l	UK DWS	0	< 10	< 10	< 10		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 100	< 100			
Monuron	100	ng/l	UK DWS	4	< 10	< 10	< 10		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 100	< 100			
VFAs																					
Acetic acid	0.01	mg/l	Default	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 100.0	< 10	< 10	< 10			
Propanoic acid	0.01	mg/l	Default	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10			
Butyric acid	0.01	mg/l	Default	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10			
Isobutyric acid	0.01	mg/l	Default	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10			
Pentanoic acid	0.01	mg/l	Default	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10			
Isopentanoic acid	0.01	mg/l	Default	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10			
Hexanoic acid	0.01	mg/l	Default	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10			
Heptanoic acid	0.01	mg/l	Default	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11	< 11			
Pyrethroids																					
Cyfluthrin	0.1	ug/l	UK DWS	0	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1			
Cypermethrin	100	ng/l	UK DWS	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 100	< 100	< 100			
Deltramethrin	0.1	ug/l	UK DWS	0	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1			
Permethrin	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01			
Permethrin	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01			
Organotins																					
Tributyltin compounds	0.2	ng/l	FEQS	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10			
TPT (Triphenyl Tin)	0.2	ng/l	FEQS	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10			
DBT (Dibutyl Tin)	0.2	ng/l	FEQS	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10			
Chlorophenols																					

Appendix G G8 Groundwater Beneath Landfill

Assessment Scenario

Water Abstraction

					Summary												
Lab Sample ID	Screening value	Units	Screening standard	Number of Exceedances	951126	962359	983106	999560	1022636	1054027	1074200	1095806	1108238	1165089	1180861		
Client Sample No					ARP16-LF-BH08	ARP16-LF-BH08	ARP16-LF-BH08	ARP16-LF-BH08	ARP16-LF-BH08	ARP16-LF-BH08	ARP16-LF-BH08	ARP16-LF-BH08	ARP16-LF-BH08	ARP16-LF-BH08	ARP16-LF-BH08	ARP16-LF-BH08	ARP16-LF-BH08
Client Sample ID					None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied		
Depth to Top					None Supplied	None Supplied	None Supplied	40.46-57.05	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	29.65	31.00
Depth to Bottom					None Supplied	None Supplied								44.16-57.00	43.60-58.40		
Date Sampled					26/04/2018	16/05/2018	14/06/2018	11/07/2018	13/08/2018	26/09/2018	22/10/2018	20/11/2018	05/12/2018	26/02/2019	19/03/2019	09/02/17	16/03/17
Sample Type					None Supplied		None Supplied	1245	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied				
Pentachlorophenol	0.0004	mg/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.00002	
Others																	
Bromoform	0.1	mg/l	WHO	0												< 0.001	< 0.001
Carbon Tetrachloride	0.003	mg/l	UK DWS	0													
Lambda-cyhalothrin	0.1	ug/l	UK DWS	0													
Methane	N/A	ug/l	-	0										< 0.1	< 0.1	2	2

Appendix G

G8 Groundwater Beneath Landfill

Assessment Scenario Water Abstraction

Lab Sample ID	Screening value	Units	Screening standard	Summary														
				Number of Exceedances	945423	962360	983107	1000277	1021410	1055394	1075118	1095807	1111111	1137546	1165091	1180862		
Client Sample No				ARP16-LF-BH10	ARP16-LF-BH10	ARP16-LF-BH10	ARP16-LF-BH10	ARP16-LF-BH10	ARP16-LF-BH10	ARP16-LF-BH10	ARP16-LF-BH10	ARP16-LF-BH10	ARP16-LF-BH10	ARP16-LF-BH10	ARP16-LF-BH10	ARP16-LF-BH10	ARP16-LF-BH10	
Client Sample ID					None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	
Depth to Top	31.09				None Supplied	None Supplied	None Supplied	27.38-50.58	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	48	None Supplied	None Supplied
Depth to Bottom					None Supplied	None Supplied											30.65-50.16	30.71-50.41
Date Sampled	17/05/17				18/04/2018	16/05/2018	15/06/2018	12/07/2018	10/08/2018	27/09/2018	24/10/2018	20/11/2018	06/12/2018	22/01/2019	26/02/2019	19/03/2019		
Sample Type							None Supplied	1000	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Inorganics																		
General inorganics																		
pH	N/A	pH units	-		6.8	6.7	6.8	6.7	6.7	6.8	6.9	7.4	6.8	6.9	6.9	6.8		
Total Cyanide	50	ug/l	UK DWS	0	5	< 10	< 10	< 10	< 10	< 10	< 10	< 10	12	< 10	< 10	< 10	< 10	< 10
Complex Cyanides	50	ug/l	UK DWS	0	5	< 10	< 10	< 10	< 10	< 10	< 10	< 10	12	< 10	< 10	< 10	< 10	< 10
Free Cyanide	50	ug/l	UK DWS	0	< 5	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Thiocyanate as SCN	50	ug/l	UK DWS	2	< 100	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	210	< 200	< 200	< 200	< 200
Sulphate as SO4	250000	ug/l	UK DWS	4	77000	189000	104000	123000	131000	110000	100000	117000	6990	86400	61900	54800	72000	
Sulphide	250000	ug/l	UK DWS	0	< 100	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chloride	250	mg/l	UK DWS	4	72	37	48	61	59	60	62	51	86	65	63	54	61	
Fluoride	1500	ug/l	UK DWS	0	370	140	230	180	180	170	86	340	180	160	240	200	180	
Ammoniacal Nitrogen as N	390	ug/l	UK DWS	18	40	32	41	200	27	33	230	29	220	41	16	27	21	
Nitrate as N	11.3	mg/l	UK DWS	8		19.9	14.7	16.8	13.5	15.7	11.2	10.6	0.88	12.7	10.1	12	13	
Nitrate as NO3	50	mg/l	UK DWS	9	31.27	88.3	65.1	74.3	60	69.4	49.6	46.8	3.9	56.2	44.6	53.3	57.6	
Nitrite as N	160	ug/l	UK DWS	0		4	37	29	33	29	28	9.2	4	15	15	18	22	
Nitrite as NO2	500	ug/l	UK DWS	2	860	13	120	95	110	94	91	30	13	50	50	60	72	
Alkalinity	N/A	mg/l	-	0	380	720	740	750	630	700	440	620	180	640	360	330	670	
Chemical Oxygen Demand (COD)	N/A	mg/l	-	0	25	9.3	11	4.9	8.8	2.4	16	16	6.5	< 2.0	19	6.9	26	
Biological Oxygen Demand (BOD)	N/A	mg/l	-	0	3	< 1.0	< 1.0	< 1.0	< 1.0	1.4	< 1.0	1.1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Total Oxidised N (Nitrate/-ite)	11.3	mg/l	UK DWS	9	7.3	20	15	17	14	16	11	11	0.9	13	10	12	13	
Total Suspended Solids	N/A	mg/l	-	0	13125	1300	1100	120	920	2000	1400	1200	46	550	240	200	1200	
Hardness - Total	N/A	mg/l	-	0	595	629	467	633	786	602	646	592	261	604	501	504	561	
Bromide	N/A	mg/l	-	0	0.28	0.22	0.41	0.34	0.45	0.4	0.38	0.091	0.33	0.06	0.33	0.35		
Bromate	0.01	mg/l	UK DWS	0	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	
Phenols																		
Catechol	7.7	ug/l	FEQS	0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Resorcinol	7.7	ug/l	FEQS	0	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Ethylphenol & Dimethylphenol	100	ug/l	FEQS	0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Cresols	100	ug/l	FEQS	0	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Naphthols	7.7	ug/l	FEQS	0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Isopropylphenol	7.7	ug/l	FEQS	0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Phenol	7.7	ug/l	FEQS	0	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Trimethylphenol	100	ug/l	FEQS	0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Speciated PAHs																		
Naphthalene	2	ug/l	FEQS	0	0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthylene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthene	2000	ug/l	USEPA	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluorene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Phenanthrene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Anthracene	0.1	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluoranthene	0.0063	ug/l	FEQS	8	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Pyrene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)anthracene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Chrysene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(b)fluoranthene	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(k)fluoranthene	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)pyrene	0.01	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Indeno(1,2,3-cd)pyrene	0.1	ug/l	UK DWS	0	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Dibenzo(a,h)anthracene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(g,h,i)perylene	0.1	ug/l	UK DWS	0	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Heavy metals and metalloids																		

Appendix G

G8 Groundwater Beneath Landfill

Assessment Scenario

Water Abstraction

Lab Sample ID	Screening value	Units	Screening standard	Summary															
				Number of Exceedances		945423	962360	983107	1000277	1021410	1055394	1075118	1095807	1111111	1137546	1165091	1180862		
Client Sample No						ARP16-LF-BH10	ARP16-LF-BH10	ARP16-LF-BH10	ARP16-LF-BH10	ARP16-LF-BH10	ARP16-LF-BH10	ARP16-LF-BH10	ARP16-LF-BH10	ARP16-LF-BH10	ARP16-LF-BH10	ARP16-LF-BH10	ARP16-LF-BH10	ARP16-LF-BH10	
Client Sample ID																			
Depth to Top						31.09	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	
Depth to Bottom							None Supplied	None Supplied	None Supplied	27.38-50.58	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	
Date Sampled						17/05/17	18/04/2018	16/05/2018	15/06/2018	12/07/2018	10/08/2018	27/09/2018	24/10/2018	20/11/2018	06/12/2018	22/01/2019	26/02/2019	19/03/2019	
Sample Type								None Supplied	1000	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	
Trifluralin	0.1	ug/l	UK DWS	0		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	
Organonitrogen pesticides																			
Bentazone	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	
Fluroxypyr	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	
Triclopyr	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	
Organophosphorous pesticides																			
Azinphos-ethyl	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	
Azinphos-methyl	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	
Chlorfenvinphos	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	
Chlorfenvinphos I	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	
Chlorfenvinphos II	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	
Chlorpyrifos-methyl	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	
Diazinon	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	
Dichlorvos	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	
Dimethoate	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	
E-mevinphos	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	
Z-Mevinphos	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	
Ethion	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	
Fenitrothion	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	
Fenthion	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	
Malathion	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	
Parathion-ethyl	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	
Parathion-methyl	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	
Phenylurea herbicides																			
Isoproturon	100	ng/l	UK DWS	0	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	
Chlortoluron	100	ng/l	UK DWS	0	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	
Diflufenzuron	100	ng/l	UK DWS	0	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	
Diuron	100	ng/l	UK DWS	13	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	210	< 10	< 10	< 10	< 10	< 10	
Linuron	100	ng/l	UK DWS	0	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	
Methabenzthiazuron	100	ng/l	UK DWS	0	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	
Monolinuron	100	ng/l	UK DWS	0	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	
Monuron	100	ng/l	UK DWS	4	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	57.000	< 10	< 10	< 10	< 10	< 10	
VFAs																			
Acetic acid	0.01	mg/l	Default	0	< 10	< 10	< 10	< 10	< 10	< 10	I/S	< 10	< 10	< 10	< 10	< 10	< 10	< 100.0	
Propanoic acid	0.01	mg/l	Default	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	
Butyric acid	0.01	mg/l	Default	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	
Isobutyric acid	0.01	mg/l	Default	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	
Pentanoic acid	0.01	mg/l	Default	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	
Isopentanoic acid	0.01	mg/l	Default	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	
Hexanoic acid	0.01	mg/l	Default	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	
Heptanoic acid	0.01	mg/l	Default	0	< 11	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	
Pyrethroids																			
Cyfluthrin	0.1	ug/l	UK DWS	0	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	
Cypermethrin	100	ng/l	UK DWS	0	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	
Deltramethrin	0.1	ug/l	UK DWS	0	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	
Permethrin	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	
Permethrin	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	
Organotins																			
Tributyltin compounds	0.2	ng/l	FEQS	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	
TPT (Triphenyl Tin)	0.2	ng/l	FEQS	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	
DBT (Dibutyl Tin)	0.2	ng/l	FEQS	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	
Chlorophenols																			

Appendix G G8 Groundwater Beneath Landfill

Assessment Scenario

Water Abstraction

					Summary												
Lab Sample ID	Screening value	Units	Screening standard	Number of Exceedances	945423	962360	983107	1000277	1021410	1055394	1075118	1095807	1111111	1137546	1165091	1180862	
Client Sample No					ARP16-LF-BH10	ARP16-LF-BH10	ARP16-LF-BH10	ARP16-LF-BH10	ARP16-LF-BH10	ARP16-LF-BH10	ARP16-LF-BH10	ARP16-LF-BH10	ARP16-LF-BH10	ARP16-LF-BH10	ARP16-LF-BH10	ARP16-LF-BH10	ARP16-LF-BH10
Client Sample ID					None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	
Depth to Top	31.09				None Supplied	None Supplied	None Supplied	27.38-50.58	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	48	None Supplied	None Supplied
Depth to Bottom					None Supplied	None Supplied										30.65-50.16	30.71-50.41
Date Sampled	17/05/17				18/04/2018	16/05/2018	15/06/2018	12/07/2018	10/08/2018	27/09/2018	24/10/2018	20/11/2018	06/12/2018	22/01/2019	26/02/2019	19/03/2019	
Sample Type							None Supplied	1000	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied		
Pentachlorophenol	0.0004	mg/l	FEQS	0	< 0.001	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Others																	
Bromoform	0.1	mg/l	WHO	0	< 0.001												
Carbon Tetrachloride	0.003	mg/l	UK DWS	0													
Lambda-cyhalothrin	0.1	ug/l	UK DWS	0													
Methane	N/A	ug/l	-	0	< 2											< 0.1	< 0.1

Appendix G

G8 Groundwater Beneath Landfill

Assessment Scenario

Water Abstraction

1000

Lab Sample ID	Screening value	Units	Screening standard	Summary													19507771
				Number of Exceedances	GW203	GW203	GW203	GW204	GW204	GW204	GW205	GW205	GW205	GW206	GW206	GW206	
Client Sample No																	
Client Sample ID																	
Depth to Top					41.54	42.5	42.22	44	42.2	43.25	45	42.47	43.39	42.25	43.32	43.68	38.28
Depth to Bottom					63.28	63.53	64.45	44.0	63.82	64.0	45.0	62.83	62.84	57.78	57.78		61.6
Date Sampled					21/08/2018	11/09/2018	04/10/2018	09/08/2018	13/09/2018	11/10/2018	09/08/2018	13/09/2018	10/10/2018	14/01/2019	13/02/2019	07/03/2019	15/01/2019
Sample Type					None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Inorganics																	
Organics																	
General inorganics																	
pH	N/A	pH units	-		7.63	7.37	7.68	7.34	7.15	6.93	7.27	7.04	7.19	6.95	6.88	6.95	6.86
Total Cyanide	50	ug/l	UK DWS	0	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Complex Cyanides	50	ug/l	UK DWS	0	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Free Cyanide	50	ug/l	UK DWS	0	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Thiocyanate as SCN	50	ug/l	UK DWS	2	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Sulphate as SO4	250000	ug/l	UK DWS	4	18300	18200	15900	28300	29300	25200	32700	30600	29800	64600	45000	41400	38400
Sulphide	250000	ug/l	UK DWS	0	< 10	< 10	< 10	< 10	< 10	61.5	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Chloride	250	mg/l	UK DWS	4	108	112	119	144	147	137	122	125	123	361	220	202	251
Fluoride	1500	ug/l	UK DWS	0	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	513	< 500	< 500	< 500	< 500
Ammoniacal Nitrogen as N	390	ug/l	UK DWS	18	913	977	1080	< 200	< 200	< 200	< 200	< 200	< 200	5930	2650	1560	3040
Nitrate as N	11.3	mg/l	UK DWS	8													
Nitrate as NO3	50	mg/l	UK DWS	9	0.634	< 0.3	< 0.3	1.25	1.89	1.17	1.9	0.786	1.2	5.69	4.38	3.69	0.338
Nitrite as N	160	ug/l	UK DWS	0													
Nitrite as NO2	500	ug/l	UK DWS	2	< 50	< 50	< 50	1040	< 50	109	124	< 50	86	< 50	63	59	< 50
Alkalinity	N/A	mg/l	-	0	415	285	260	525	720	550	575	510	469	865	2350	3290	685
Chemical Oxygen Demand (COD)	N/A	mg/l	-	0	30.2	12.3	13	39.5	45.9	28.8	33.2	32	25.3	56.6	35.1	506	-
Biological Oxygen Demand (BOD)	N/A	mg/l	-	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Total Oxidised N (Nitrate/ite)	11.3	mg/l	UK DWS	9	0.152	< 0.1	< 0.1	0.599	0.434	0.297	0.468	0.192	0.298	1.3	1.01	0.852	< 0.1
Total Suspended Solids	N/A	mg/l	-	0	277	29.8	27	53.4	266	249	150	81.2	131	525	6360	3510	6.7
Hardness - Total	N/A	mg/l	-	0	735	389	371	897	377	1020	1080	1980	1870	1890	4030	3680	841
Bromide	N/A	mg/l	-	0	0.207	0.202	0.205	0.842	0.871	0.883	0.582	0.765	0.846	2.6	1.66	1.5	1.72
Bromate	0.01	mg/l	UK DWS	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Phenols																	
Catechol	7.7	ug/l	FEQS	0													
Resorcinol	7.7	ug/l	FEQS	0													
Ethylphenol & Dimethylphenol	100	ug/l	FEQS	0													
Cresols	100	ug/l	FEQS	0	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Naphthols	7.7	ug/l	FEQS	0													
Isopropylphenol	7.7	ug/l	FEQS	0	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Phenol	7.7	ug/l	FEQS	0	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Trimethylphenol	100	ug/l	FEQS	0	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Speciated PAHs																	
Naphthalene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	0.011	0.0133	< 0.01	< 0.01	0.0129	< 0.01	0.0208	0.312	0.0244	0.0193
Acenaphthylene	2	ug/l	FEQS	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.1	< 0.005	< 0.005
Acenaphthene	2000	ug/l	USEPA	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.1	< 0.005	< 0.005
Fluorene	2	ug/l	FEQS	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.00638	< 0.1	< 0.005	< 0.005
Phenanthrene	2	ug/l	FEQS	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.00982	0.181	0.0179	0.00787
Anthracene	0.1	ug/l	FEQS	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.1	< 0.005	< 0.005
Fluoranthene	0.0063	ug/l	FEQS	8	< 0.005	< 0.005	< 0.005	0.0073	< 0.005	< 0.005	0.00513	0.00747	< 0.005	0.00582	< 0.1	0.015	< 0.005
Pyrene	2	ug/l	FEQS	0	0.0203	0.00731	0.00834	0.00666	< 0.005	< 0.005	< 0.005	0.0067	< 0.005	0.00843	< 0.1	0.0272	0.00637
Benzo(a)anthracene	2	ug/l	FEQS	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.1	< 0.005	< 0.005
Chrysene	2	ug/l	FEQS	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.1	< 0.005	< 0.005
Benzo(b)fluoranthene	0.1	ug/l	UK DWS	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.1	< 0.005	< 0.005
Benzo(k)fluoranthene	0.1	ug/l	UK DWS	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.1	< 0.005	< 0.005
Benzo(a)pyrene	0.01	ug/l	UK DWS	0	< 0.002	< 0.002	< 0.002	0.00408	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.04	< 0.002	< 0.002
Indeno(1,2,3-cd)pyrene	0.1	ug/l	UK DWS	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.1	< 0.005	< 0.005
Dibenzo(a,h)anthracene	2	ug/l	FEQS	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.1	< 0.005	< 0.005
Benzo(g,h,i)perylene	0.1	ug/l	UK DWS	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.1	< 0.005	< 0.005
Heavy metals and metalloids																	

Appendix G

G8 Groundwater Beneath Landfill

Assessment Scenario

Water Abstraction

1000

Lab Sample ID	Screening value	Units	Screening standard	Summary Number of Exceedances													19507771	
					GW203	GW203	GW203	GW204	GW204	GW204	GW205	GW205	GW205	GW206	GW206	GW206	GW207A	
Client Sample No																		
Client Sample ID																		
Depth to Top					41.54	42.5	42.22	44	42.2	43.25	45	42.47	43.39	42.25	43.32	43.68-	38.28	
Depth to Bottom					63.28	63.53	64.45	44.0	63.82	64.0	45.0	62.83	62.84	57.78	57.78		61.6	
Date Sampled					21/08/2018	11/09/2018	04/10/2018	09/08/2018	13/09/2018	11/10/2018	09/08/2018	13/09/2018	10/10/2018	14/01/2019	13/02/2019	07/03/2019	15/01/2019	
Sample Type					None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	
Trifluralin	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	
Organonitrogen pesticides																		
Bentazone	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	< 0.2	
Fluroxypyr	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.2	< 0.02	< 0.02	< 0.2	< 0.2	< 0.02	< 0.2	< 0.03	
Triclopyr	0.1	ug/l	UK DWS	0	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.3	< 0.03	
Organophosphorous pesticides																		
Azinphos-ethyl	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02	< 0.02	< 0.04	< 0.02	< 0.02	< 0.04	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	
Azinphos-methyl	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02	< 0.02	< 0.08	< 0.02	< 0.02	< 0.08	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	
Chlorfenvinphos	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.02	< 0.01	< 0.01	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	
Chlorfenvinphos I	0.1	ug/l	UK DWS	0														
Chlorfenvinphos II	0.1	ug/l	UK DWS	0														
Chlorpyrifos-methyl	0.1	ug/l	UK DWS	0														
Diazinon	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.02	< 0.01	< 0.01	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	
Dichlorvos	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.02	< 0.01	< 0.01	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	
Dimethoate	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.02	< 0.01	< 0.01	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	
E-mevinphos	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.02	< 0.01	< 0.01	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	
Z-Mevinphos	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.02	< 0.01	< 0.01	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	
Ethion	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.02	< 0.01	< 0.01	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	
Fenitrothion	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.02	< 0.01	< 0.01	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	
Fenthion	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.02	< 0.01	< 0.01	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	
Malathion	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.02	< 0.01	< 0.01	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	
Parathion-ethyl	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.02	< 0.01	< 0.01	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	
Parathion-methyl	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.02	< 0.01	< 0.01	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	
Phenylurea herbicides																		
Isoproturon	100	ng/l	UK DWS	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 0.01	< 10	
Chlortoluron	100	ng/l	UK DWS	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 0.01	< 10	
Diflufenzuron	100	ng/l	UK DWS	0	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 0.02	< 20	
Diuron	100	ng/l	UK DWS	13	72	76	81	< 10	< 10	16	16	17	16	< 10	< 10	< 10	< 10	
Linuron	100	ng/l	UK DWS	0	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 0.02	< 20	
Methabenzthiazuron	100	ng/l	UK DWS	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 0.01	< 10	
Monolinuron	100	ng/l	UK DWS	0	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 0.02	< 20	
Monuron	100	ng/l	UK DWS	4	63	90	77	24	25	< 20	21	< 20	20	< 20	< 20	< 20	< 20	
VFAs																		
Acetic acid	0.01	mg/l	Default	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	
Propanoic acid	0.01	mg/l	Default	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	
Butyric acid	0.01	mg/l	Default	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	
Isobutyric acid	0.01	mg/l	Default	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	
Pentanoic acid	0.01	mg/l	Default	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	
Isopentanoic acid	0.01	mg/l	Default	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	
Hexanoic acid	0.01	mg/l	Default	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	
Heptanoic acid	0.01	mg/l	Default	0	< 11	< 11	< 11	< 11	< 11	< 11	< 11	< 11	< 11	< 11	< 11	< 11	< 11	
Pyrethroids																		
Cyfluthrin	0.1	ug/l	UK DWS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	
Cypermethrin	100	ng/l	UK DWS	0	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 0.05	< 50	
Deltramethrin	0.1	ug/l	UK DWS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	
Permethrin	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	
Permethrin	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	
Organotins																		
Tributyltin compounds	0.2	ng/l	FEQS	0	< 1	< 1	< 1	< 1	< 1	< 1	< 2	< 1	< 1	< 1	< 1	< 1	< 1	
TPT (Triphenyl Tin)	0.2	ng/l	FEQS	0	< 1	< 1	< 1	< 1	< 1	< 1	< 2	< 1	< 1	< 1	< 1	< 1	< 1	
DBT (Dibutyl Tin)	0.2	ng/l	FEQS	0	< 5	< 5	< 5	< 5	< 5	< 5	< 10	< 5	< 5	< 5	< 5	< 5	< 5	
Chlorophenols																		

Appendix G G8 Groundwater Beneath Landfill

Assessment Scenario

Water Abstraction

					Summary	
Lab Sample ID	Screening value	Units	Screening standard	Number of Exceedances	19500444	
Client Sample No					GW207A	GW207A
Client Sample ID						
Depth to Top					39.99	39.81-
Depth to Bottom					61.6	
Date Sampled					07/02/2019	06/03/2019
Sample Type					None Supplied	None Supplied
Inorganics						
Organics						
General inorganics						
pH	N/A	pH units	-		7.37	6.82
Total Cyanide	50	ug/l	UK DWS	0	< 50	< 50
Complex Cyanides	50	ug/l	UK DWS	0	< 50	< 50
Free Cyanide	50	ug/l	UK DWS	0	< 50	< 50
Thiocyanate as SCN	50	ug/l	UK DWS	2	< 50	< 50
Sulphate as SO4	250000	ug/l	UK DWS	4	31700	19400
Sulphide	250000	ug/l	UK DWS	0	< 10	< 10
Chloride	250	mg/l	UK DWS	4	169	236
Fluoride	1500	ug/l	UK DWS	0	< 500	< 500
Ammoniacal Nitrogen as N	390	ug/l	UK DWS	18	491	1140
Nitrate as N	11.3	mg/l	UK DWS	8		
Nitrate as NO3	50	mg/l	UK DWS	9	3.46	< 0.3
Nitrite as N	160	ug/l	UK DWS	0		
Nitrite as NO2	500	ug/l	UK DWS	2	< 50	< 50
Alkalinity	N/A	mg/l	-	0	565	685
Chemical Oxygen Demand (COD)	N/A	mg/l	-	0	21.9	24.2
Biological Oxygen Demand (BOD)	N/A	mg/l	-	0	< 1	< 1
Total Oxidised N (Nitrate/-ite)	11.3	mg/l	UK DWS	9	0.794	< 0.1
Total Suspended Solids	N/A	mg/l	-	0	13	17.7
Hardness - Total	N/A	mg/l	-	0	823	1010
Bromide	N/A	mg/l	-	0	1.09	1.57
Bromate	0.01	mg/l	UK DWS	0	< 0.005	< 0.005
Phenols						
Catechol	7.7	ug/l	FEQS	0		
Resorcinol	7.7	ug/l	FEQS	0		
Ethylphenol & Dimethylphenol	100	ug/l	FEQS	0		
Cresols	100	ug/l	FEQS	0	< 6	< 6
Naphthols	7.7	ug/l	FEQS	0		
Isopropylphenol	7.7	ug/l	FEQS	0	< 6	< 6
Phenol	7.7	ug/l	FEQS	0	< 2	< 2
Trimethylphenol	100	ug/l	FEQS	0	< 3	< 3
Speciated PAHs						
Naphthalene	2	ug/l	FEQS	0	0.016	0.0175
Acenaphthylene	2	ug/l	FEQS	0	< 0.005	< 0.005
Acenaphthene	2000	ug/l	USEPA	0	< 0.005	< 0.005
Fluorene	2	ug/l	FEQS	0	< 0.005	0.00642
Phenanthrene	2	ug/l	FEQS	0	0.00803	0.0101
Anthracene	0.1	ug/l	FEQS	0	< 0.005	< 0.005
Fluoranthene	0.0063	ug/l	FEQS	8	< 0.005	0.00904
Pyrene	2	ug/l	FEQS	0	< 0.005	0.0101
Benzo(a)anthracene	2	ug/l	FEQS	0	< 0.005	< 0.005
Chrysene	2	ug/l	FEQS	0	< 0.005	< 0.005
Benzo(b)fluoranthene	0.1	ug/l	UK DWS	0	< 0.005	< 0.005
Benzo(k)fluoranthene	0.1	ug/l	UK DWS	0	< 0.005	< 0.005
Benzo(a)pyrene	0.01	ug/l	UK DWS	0	< 0.002	0.00313
Indeno(1,2,3-cd)pyrene	0.1	ug/l	UK DWS	0	< 0.005	< 0.005
Dibenzo(a,h)anthracene	2	ug/l	FEQS	0	< 0.005	< 0.005
Benzo(g,h,i)perylene	0.1	ug/l	UK DWS	0	< 0.005	< 0.005
Heavy metals and metalloids						

Appendix G G8 Groundwater Beneath Landfill

Assessment Scenario

Water Abstraction

Lab Sample ID	Screening value	Units	Screening standard	Summary	
				Number of Exceedances	19500444
Client Sample No					GW207A
Client Sample ID					GW207A
Depth to Top	39.99				39.81-
Depth to Bottom	61.6				
Date Sampled	07/02/2019				06/03/2019
Sample Type	None Supplied				None Supplied
Antimony	5	ug/l	UK DWS	0	< 1
Arsenic	10	ug/l	UK DWS	0	0.644
Barium	700	ug/l	WHO	0	202
Beryllium	4	ug/l	USEPA	0	< 0.1
Boron	1000	ug/l	UK DWS	7	511
Cadmium >200mg/l CaCO3	5	ug/l	UK DWS	0	< 0.08
Calcium	N/A	mg/l	-	0	258
Chromium VI	3.4	ug/l	FEQS	0	< 30
Chromium III	4.7	ug/l	FEQS	0	< 30
Chromium Total	50	ug/l	UK DWS	0	< 1
Copper (bioavailable), DOC <1mg/l	2000	ug/l	UK DWS	0	< 0.3
Iron	0.2	mg/l	UK DWS	9	0.0719
Lead	10	ug/l	UK DWS	0	0.204
Magnesium	N/A	mg/l	-	0	6.28
Manganese (bioavailable)	50	ug/l	UK DWS	50	177
Mercury	1	ug/l	UK DWS	3	0.371
Molybdenum	70	ug/l	WHO	0	< 3
Nickel >200 mg/l CaCO3	20	ug/l	UK DWS	4	8.6
Potassium	N/A	mg/l	-	0	3.01
Selenium	10	ug/l	UK DWS	2	< 1
Sodium	50	mg/l	WHO	25	69.5
Vanadium	20	ug/l	FEQS	0	< 1
Zinc >250 mg/l CaCO3	5000	ug/l	USEPA	0	7.64
Monoaromatics					
Benzene	1	ug/l	UK DWS	0	< 1
Toluene	74	ug/l	FEQS	0	< 1
Ethylbenzene	20	ug/l	FEQS	0	< 1
Xylenes	30	ug/l	FEQS	0	< 2
MTBE	15	ug/l	WHO	0	< 1
Petroleum hydrocarbons					
TPH	N/A	ug/l	-	0	
TPH >C5-C6 Aliphatics	15000	ug/l	WHO	0	< 10
TPH >C6-C8 Aliphatics	15000	ug/l	WHO	0	< 10
TPH >C8-C10 Aliphatics	300	ug/l	WHO	0	< 10
TPH >C10-C12 Aliphatics	300	ug/l	WHO	0	< 10
TPH >C12-C16 Aliphatics	300	ug/l	WHO	0	< 10
TPH >C16-C21 Aliphatics	300	ug/l	WHO	0	< 10
TPH >C21-C35 Aliphatics	300	ug/l	WHO	2	< 10
TPH-CWG - Aliphatic >C16 - C35	300	ug/l	WHO	1	< 10
TPH-CWG - Aliphatic >C35 - C44	300	ug/l	WHO	0	
C5-C35 Aliphatics	N/A	ug/l	-	0	< 10
TPH-CWG - Aliphatic (C5 - C44)	N/A	ug/l	-	0	
TPH >C5-C6 Aromatics	10	ug/l	WHO	0	< 10
TPH >C7-C8 Aromatics	700	ug/l	WHO	0	< 10
TPH >C8-C9 Aromatics	300	ug/l	WHO	0	
TPH >C9-C10 Aromatics	300	ug/l	WHO	0	
TPH >C8-C10 Aromatics	300	ug/l	WHO	0	< 10
TPH >C10-C12 Aromatics	90	ug/l	WHO	0	< 10
TPH >C12-C16 Aromatics	90	ug/l	WHO	0	< 10
TPH >C16-C21 Aromatics	90	ug/l	WHO	0	< 10
TPH >C21-C35 Aromatics	90	ug/l	WHO	0	< 10
TPH >C35-C44 Aromatics	90	ug/l	WHO	0	

Appendix G G8 Groundwater Beneath Landfill

Assessment Scenario

Water Abstraction

Lab Sample ID	Screening value	Units	Screening standard	Summary	
				Number of Exceedances	19500444
Client Sample No					GW207A
Client Sample ID					GW207A
Depth to Top				39.99	39.81-
Depth to Bottom				61.6	
Date Sampled				07/02/2019	06/03/2019
Sample Type				None Supplied	None Supplied
C5-C35 Aromatics	N/A	ug/l	-	0	
C5-C35 Aromatics	N/A	ug/l	-	0	
VOCs					
Chloromethane	20	ug/l	FEQS	0	< 1
Chloroethane	3	ug/l	UK DWS	0	< 1
Bromomethane	100	ug/l	UK DWS	0	< 1
Vinyl Chloride	0.5	ug/l	UK DWS	15	< 1
Trichlorofluoromethane	2.5	ug/l	FEQS	0	< 1
1,1-Dichloroethene	7	ug/l	USEPA	0	< 1
1,1,2-Trichloro-1,2,2-trifluoroethane	400	ug/l	FEQS	0	
Cis-1,2 Dichloroethene	50	ug/l	WHO	0	< 1
MTBE	15	ug/l	WHO	0	< 1
1,1 -Dichloroethane	3	ug/l	UK DWS	4	< 1
2,2-Dichloropropane	40	ug/l	WHO	0	< 1
Trichloromethane	2.5	ug/l	FEQS	0	< 1
1,1,1-Trichloroethane	100	ug/l	FEQS	0	< 1
1,2-Dichloroethane	3	ug/l	UK DWS	11	< 1
1,1-Dichloropropene	20	ug/l	WHO	0	< 1
Trans-1,2 Dichloroethene	50	ug/l	WHO	0	< 1
Benzene	1	ug/l	UK DWS	0	< 1
Tetrachloromethane	3	ug/l	UK DWS	0	< 1
1,2-Dichloropropane	40	ug/l	WHO	0	< 1
Trichloroethene	10	ug/l	UK DWS	24	< 1
Dibromomethane	100	ug/l	UK DWS	0	< 1
Bromodichloromethane	100	ug/l	UK DWS	0	< 1
Cis-1,3 Dichloropropene	20	ug/l	WHO	0	< 1
Trans-1,3 Dichloropropene	20	ug/l	WHO	0	< 1
Toluene	74	ug/l	FEQS	0	< 1
1,1,2-Trichloroethane	400	ug/l	FEQS	0	< 1
1,3-Dichloropropane	40	ug/l	WHO	0	< 1
Dibromochloromethane	100	ug/l	WHO	0	< 1
Tetrachloroethene	10	ug/l	UK DWS	0	< 1
1,2-Dibromoethane	0.4	ug/l	WHO	0	< 1
Chlorobenzene	0.4	ug/l	FEQS	0	< 1
1,1,1,2-Tetrachloroethane	400	ug/l	USEPA	0	< 1
Ethylbenzene	20	ug/l	FEQS	0	< 1
m,p-Xylenes	30	ug/l	FEQS	0	< 1
Styrene	20	ug/l	WHO	0	< 1
Tribromomethane	10	ug/l	Default	0	< 1
o-Xylene	30	ug/l	FEQS	0	< 1
1,1,2,2-Tetrachloroethane	400	ug/l	USEPA	0	< 1
Iso-propylbenzene	1	ug/l	UK DWS	0	< 1
Bromobenzene	1	ug/l	UK DWS	0	< 1
Propylbenzene	1	ug/l	UK DWS	0	< 1
2-Chlorotoluene	700	ug/l	WHO	0	< 1
4-Chlorotoluene	700	ug/l	WHO	0	< 1
1,3,5 Trimethylbenzene	1	ug/l	UK DWS	0	< 1
tert-Butylbenzene	1	ug/l	UK DWS	0	< 1
1,2,4 Trimethylbenzene	1	ug/l	UK DWS	0	< 1
sec-Butylbenzene	1	ug/l	UK DWS	0	< 1
1,3 Dichlorobenzene	3000	ug/l	USEPA	0	< 1
p-Isopropyltoluene	74	ug/l	FEQS	0	< 1

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G8 Groundwater Beneath Landfill

Assessment Scenario

Water Abstraction

Lab Sample ID	Screening value	Units	Screening standard	Summary	19500444	
					GW207A	GW207A
Client Sample No						
Client Sample ID						
Depth to Top					39.99	39.81-
Depth to Bottom					61.6	
Date Sampled					07/02/2019	06/03/2019
Sample Type					None Supplied	None Supplied
1,2-Dichlorobenzene	1000	ug/l	WHO	0	< 1	< 1
1,4 Dichlorobenzene	300	ug/l	WHO	0	< 1	< 1
n-Butylbenzene	1	ug/l	UK DWS	0	< 1	< 1
1,2-Dibromo-3-chloropropane	1	ug/l	WHO	0	< 1	< 1
1,2,4-Trichlorobenzene	70	ug/l	USEPA	0	< 1	< 1
Hexachlorobutadiene	0.6	ug/l	WHO	0	< 1	< 1
2,6 Chloronitrotoluene	700	ug/l	WHO	0		
4,2 Chloronitrotoluene	700	ug/l	WHO	0		
4,3 Chloronitrotoluene	700	ug/l	WHO	0		
2,4 Chloronitrotoluene	700	ug/l	WHO	0		
2,5 Chloronitrotoluene	700	ug/l	WHO	0		
1,2,3-Trichlorobenzene	0.4	ug/l	FEQS	0	< 1	< 1
1,2,3-Trichloropropane	40	ug/l	WHO	0	< 1	< 1
1,3,5-Trichlorobenzene	0.4	ug/l	FEQS	0	< 1	< 1
Bromochloromethane	100	ug/l	WHO	0	< 1	< 1
Dichloromethane	20	ug/l	FEQS	0	< 3	< 3
Carbon disulphide	10	ug/l	Default	0	< 1	< 1
Dichlorodifluoromethane	20	ug/l	FEQS	0	< 1	< 1
SVOCs						
Phenol	7.7	ug/l	FEQS	0	< 1	< 1
2-Chlorophenol	50	ug/l	FEQS	0	< 1	< 1
Bis(2-chloroethyl)ether	1000	ug/l	USEPA	0	< 1	< 1
Bis(2-chloroisopropyl)ether	1000	ug/l	USEPA	0		
2-Methylphenol	100	ug/l	FEQS	0	< 1	< 1
Hexachloroethane	40	ug/l	USEPA	0	< 1	< 1
Nitrobenzene	1	ug/l	UK DWS	0	< 1	< 1
4-Methylphenol	100	ug/l	FEQS	0	< 1	< 1
Isophorone	7000	ug/l	USEPA	0	< 1	< 1
2-Nitrophenol	7.7	ug/l	FEQS	0	< 1	< 1
2,4-Dimethylphenol	100	ug/l	FEQS	0	< 1	< 1
Bis(2-chloroethoxy)methane	10	ug/l	Default	0	< 1	< 1
2,4-Dichlorophenol	4.2	ug/l	FEQS	0	< 1	< 1
4-Chloro-3-methylphenol	40	ug/l	FEQS	0	< 1	< 1
2,4,6-trichlorophenol	200	ug/l	WHO	0	< 1	< 1
2,4,5-Trichlorophenol	200	ug/l	WHO	0	< 1	< 1
2-Methylnaphthalene	2	ug/l	FEQS	0	< 1	< 1
2-Chloronaphthalene	2	ug/l	FEQS	0	< 1	< 1
Dimethylphthalate	800	ug/l	FEQS	0	< 1	< 1
2,6-Dinitrotoluene	100	ug/l	USEPA	0	< 1	< 1
2,4-Dinitrotoluene	100	ug/l	USEPA	0	< 1	< 1
Dibenzofuran	2	ug/l	FEQS	0	< 1	< 1
Diethyl phthalate	200	ug/l	FEQS	0	< 1	< 1
Bromophenyl phenyl ether	10	ug/l	Default	0	< 1	< 1
Hexachlorobenzene	1	ug/l	USEPA	0	< 1	< 1
Phenanthrene	2	ug/l	FEQS	0	0.00803	0.0101
Carbazole	2	ug/l	FEQS	0	< 1	< 1
Di-n-butyl phthalate	8	ug/l	FEQS	0	< 1	< 1
Butyl benzyl phthalate	7.5	ug/l	FEQS	0	< 1	< 1
PCBs by GC-ECD - WHO 12						
PCB Congener 77	25	ug/l	FEQS	0	< 0.015	< 0.015
PCB Congener 81	25	ug/l	FEQS	0	< 0.015	< 0.015
PCB Congener 105	25	ug/l	FEQS	0	< 0.015	< 0.015

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Assessment Scenario

Water Abstraction

Lab Sample ID	Screening value	Units	Screening standard	Summary	
				Number of Exceedances	19500444
Client Sample No					GW207A
Client Sample ID					GW207A
Depth to Top	39.99				39.81-
Depth to Bottom	61.6				
Date Sampled	07/02/2019				06/03/2019
Sample Type	None Supplied				None Supplied
PCB Congener 114	25	ug/l	FEQS	0	< 0.015
PCB Congener 118	25	ug/l	FEQS	0	< 0.015
PCB Congener 123	25	ug/l	FEQS	0	< 0.015
PCB Congener 126	25	ug/l	FEQS	0	< 0.015
PCB Congener 156	25	ug/l	FEQS	0	< 0.015
PCB Congener 157	25	ug/l	FEQS	0	< 0.015
PCB Congener 167	25	ug/l	FEQS	0	< 0.015
PCB Congener 169	25	ug/l	FEQS	0	< 0.015
PCB Congener 189	25	ug/l	FEQS	0	< 0.015
PCBs	25	ug/l	FEQS	0	
Environmental Forensics					
PFOS	0.3	ug/l	DWS	0	0.00584
PFOS	0.3	ug/l	DWS	0	
PFOA	0.3	ug/l	DWS	0	0.00193
Metaldehyde	0.1	ug/l	UK DWS	6	
Chloronitrotoluenes (sum)	10	ug/l	FEQS	0	
Chlorbufam	0.1	ug/l	UK DWS	0	
Chloroxuron	0.1	ug/l	UK DWS	0	< 0.01
Chlorpropham	0.1	ug/l	UK DWS	0	< 0.05
Ethiofencarb	0.1	ug/l	UK DWS	0	< 0.02
Phenmedipham	0.1	ug/l	UK DWS	0	
Propham	0.1	ug/l	UK DWS	0	< 0.05
Dimefuron	0.1	ug/l	UK DWS	0	< 0.02
Metoxuron	0.1	ug/l	UK DWS	0	< 0.01
Pencycuron	0.1	ug/l	UK DWS	0	< 0.02
o,p-Methoxychlor	0.1	ug/l	UK DWS	0	< 0.01
Demeton-s-methyl	0.1	ug/l	UK DWS	0	< 0.01
Diclofop	0.1	ug/l	UK DWS	0	< 0.2
Fenvalerate	0.1	ug/l	UK DWS	0	
Cyhalothrin	0.1	ug/l	UK DWS	0	< 0.05
Ametryn	0.1	ug/l	UK DWS	0	
Atrazine-methoxy	0.1	ug/l	UK DWS	0	< 0.01
Bromacil	0.1	ug/l	UK DWS	0	< 0.01
Flamprop	0.1	ug/l	UK DWS	0	
Flamprop-isopropyl	0.1	ug/l	UK DWS	0	
Prometon	0.1	ug/l	UK DWS	0	
Simetryn	0.1	ug/l	UK DWS	0	
4-Nitrophenol	7.7	ug/l	FEQS	0	< 1
Hexachlorocyclopentadiene	50	ug/l	USEPA	0	< 1
Perylene	2	ug/l	FEQS	0	
n-Nitroso-n-dipropylamine	0.1	ug/l	UK DWS	0	< 1
Carbamates					
Pirimicarb	100	ng/l	UK DWS	0	< 10
Carbetamide	100	ng/l	UK DWS	0	< 10
Phthalates					
Bis(2-ethylhexyl)phthalate	8	ug/l	WHO	1	< 2
Di-n-octyl phthalate	20	ug/l	FEQS	0	< 5
Total phthalates	N/A	mg/l	-	0	
Glycols					
Ethylene Glycol	0.01	mg/l	Default	0	
Diethylene Glycol	0.01	mg/l	Default	0	
1,2-Propanediol	0.01	mg/l	Default	0	

Appendix G G8 Groundwater Beneath Landfill

Assessment Scenario

Water Abstraction

					Summary	
Lab Sample ID	Screening value	Units	Screening standard	Number of Exceedances	19500444	
Client Sample No					GW207A	GW207A
Client Sample ID						
Depth to Top					39.99	39.81-
Depth to Bottom					61.6	
Date Sampled					07/02/2019	06/03/2019
Sample Type					None Supplied	None Supplied
Rodenticides						
Triazine Pesticides						
Atrazine	0.1	ug/l	UK DWS	2	< 0.01	< 0.01
Simazine	0.1	ug/l	UK DWS	0	< 0.01	< 0.01
Prometryn	0.1	ug/l	UK DWS	0	< 0.01	< 0.01
Propazine	0.1	ug/l	UK DWS	0	< 0.01	< 0.01
Terbutylazine	0.1	ug/l	UK DWS	0		
Terbutryn	0.1	ug/l	UK DWS	0	< 0.01	< 0.01
Acid herbicides esters						
2,4-D Methyl Ester	0.1	ug/l	UK DWS	0		
2,4-D butyl ester	0.1	ug/l	UK DWS	0		
2,4-D ethyl ester	0.1	ug/l	UK DWS	0		
2,4-D isobutyl ester	0.1	ug/l	UK DWS	0		
2,4-D isopropyl ester	0.1	ug/l	UK DWS	0		
Acid Herbicides						
2,3,6-TBA	0.1	ug/l	UK DWS	0	< 1	< 10
Benazolin	0.1	ug/l	UK DWS	0	< 0.05	< 0.5
Bromoxynil	0.1	ug/l	UK DWS	0	< 0.01	< 0.1
Clopyralid	0.1	ug/l	UK DWS	0	< 0.03	< 0.3
Ioxynil	0.1	ug/l	UK DWS	0	< 0.01	< 0.1
2,4,5-T	0.1	ug/l	UK DWS	0	< 0.01	< 0.1
2,4,5-TP	0.1	ug/l	UK DWS	0	< 0.1	< 0.1
2,4-D	0.1	ug/l	UK DWS	0	< 0.01	< 0.1
2,4-DB	0.1	ug/l	UK DWS	0	< 0.02	< 0.2
Dicamba	0.1	ug/l	UK DWS	1	< 0.03	< 0.3
Dichlorprop	0.1	ug/l	UK DWS	2	< 0.01	< 0.1
MCPA	0.1	ug/l	UK DWS	0	< 0.01	< 0.1
MCPB	0.1	ug/l	UK DWS	0	< 0.02	< 0.2
Mecoprop	0.1	ug/l	UK DWS	29	0.013	< 0.1
Picloram	0.1	ug/l	UK DWS	0	< 0.02	< 0.2
4-Chlorophenoxyacetic acid	0.1	ug/l	UK DWS	0		
Organochlorine Pesticides						
Aldrin	0.03	ug/l	UK DWS	0	< 0.01	< 0.01
alpha-HCH (alpha-BHC)	0.1	ug/l	UK DWS	0	< 0.01	< 0.01
beta-HCH (beta-BHC)	0.1	ug/l	UK DWS	0	< 0.01	< 0.01
delta-HCH (delta-BHC)	0.1	ug/l	UK DWS	0	< 0.01	< 0.01
Dieldrin	0.03	ug/l	UK DWS	0	< 0.01	< 0.01
Endosulfan	0.1	ug/l	UK DWS	0	< 0.01	< 0.01
Endosulfan	0.1	ug/l	UK DWS	0	< 0.02	< 0.02
Endosulfan Sulphate	0.1	ug/l	UK DWS	0	< 0.02	< 0.02
Endrin	0.1	ug/l	UK DWS	0	< 0.01	< 0.01
gamma-HCH (gamma-BHC)	0.1	ug/l	UK DWS	0	< 0.01	< 0.01
Heptachlor	0.03	ug/l	UK DWS	0	< 0.01	< 0.01
Heptachlor Epoxide	0.03	ug/l	UK DWS	0	< 0.01	< 0.01
Isodrin	0.1	ug/l	UK DWS	0	< 0.01	< 0.01
Methoxychlor	0.1	ug/l	UK DWS	0	< 0.01	< 0.01
o,p-DDE	0.1	ug/l	UK DWS	0	< 0.01	< 0.01
DDT	0.1	ug/l	UK DWS	0	< 0.01	< 0.01
o,p-TDE (o,p-DDD)	0.1	ug/l	UK DWS	0	< 0.01	< 0.01
p,p-DDE	0.1	ug/l	UK DWS	0	< 0.01	< 0.01
DDT	0.1	ug/l	UK DWS	0	< 0.01	< 0.01
p,p-TDE (o,p-DDD)	0.1	ug/l	UK DWS	0	< 0.01	< 0.01

Appendix G G8 Groundwater Beneath Landfill

Assessment Scenario

Water Abstraction

Lab Sample ID	Screening value	Units	Screening standard	Summary		
				Number of Exceedances	19500444	
Client Sample No					GW207A	GW207A
Client Sample ID						
Depth to Top					39.99	39.81-
Depth to Bottom					61.6	
Date Sampled					07/02/2019	06/03/2019
Sample Type					None Supplied	None Supplied
Trifluralin	0.1	ug/l	UK DWS	0	< 0.01	< 0.01
Organonitrogen pesticides						
Bentazone	0.1	ug/l	UK DWS	0	< 0.01	< 0.1
Fluroxypyr	0.1	ug/l	UK DWS	0	< 0.02	< 0.2
Triclopyr	0.1	ug/l	UK DWS	0	< 0.03	< 0.3
Organophosphorous pesticides						
Azinphos-ethyl	0.1	ug/l	UK DWS	0	< 0.02	< 0.02
Azinphos-methyl	0.1	ug/l	UK DWS	0	< 0.02	< 0.02
Chlorfenvinphos	0.1	ug/l	UK DWS	0	< 0.01	< 0.01
Chlorfenvinphos I	0.1	ug/l	UK DWS	0		
Chlorfenvinphos II	0.1	ug/l	UK DWS	0		
Chlorpyrifos-methyl	0.1	ug/l	UK DWS	0		
Diazinon	0.1	ug/l	UK DWS	0	< 0.01	< 0.01
Dichlorvos	0.1	ug/l	UK DWS	0	< 0.01	< 0.01
Dimethoate	0.1	ug/l	UK DWS	0	< 0.01	< 0.01
E-mevinphos	0.1	ug/l	UK DWS	0	< 0.01	< 0.01
Z-Mevinphos	0.1	ug/l	UK DWS	0	< 0.01	< 0.01
Ethion	0.1	ug/l	UK DWS	0	< 0.01	< 0.01
Fenitrothion	0.1	ug/l	UK DWS	0	< 0.01	< 0.01
Fenthion	0.1	ug/l	UK DWS	0	< 0.01	< 0.01
Malathion	0.1	ug/l	UK DWS	0	< 0.01	< 0.01
Parathion-ethyl	0.1	ug/l	UK DWS	0	< 0.01	< 0.01
Parathion-methyl	0.1	ug/l	UK DWS	0	< 0.01	< 0.01
Phenylurea herbicides						
Isoproturon	100	ng/l	UK DWS	0	< 10	< 0.01
Chlortoluron	100	ng/l	UK DWS	0	< 10	< 0.01
Diflubenzuron	100	ng/l	UK DWS	0	< 20	< 0.02
Diuron	100	ng/l	UK DWS	13	< 10	< 10
Linuron	100	ng/l	UK DWS	0	< 20	< 0.02
Methabenzthiazuron	100	ng/l	UK DWS	0	< 10	< 0.01
Monolinuron	100	ng/l	UK DWS	0	< 20	< 0.02
Monuron	100	ng/l	UK DWS	4	< 20	< 20
VFAs						
Acetic acid	0.01	mg/l	Default	0	< 10	< 10
Propanoic acid	0.01	mg/l	Default	0	< 10	< 10
Butyric acid	0.01	mg/l	Default	0	< 10	< 10
Isobutyric acid	0.01	mg/l	Default	0	< 10	< 10
Pentanoic acid	0.01	mg/l	Default	0	< 10	< 10
Isopentanoic acid	0.01	mg/l	Default	0	< 10	< 10
Hexanoic acid	0.01	mg/l	Default	0	< 10	< 10
Heptanoic acid	0.01	mg/l	Default	0	< 11	< 11
Pyrethroids						
Cyfluthrin	0.1	ug/l	UK DWS	0	< 0.05	< 0.05
Cypermethrin	100	ng/l	UK DWS	0	< 50	< 0.05
Deltramethrin	0.1	ug/l	UK DWS	0	< 0.05	< 0.05
Permethrin	0.1	ug/l	UK DWS	0	< 0.01	< 0.01
Permethrin	0.1	ug/l	UK DWS	0	< 0.01	< 0.01
Organotins						
Tributyltin compounds	0.2	ng/l	FEQS	0	< 1	< 1
TPT (Triphenyl Tin)	0.2	ng/l	FEQS	0	< 1	< 1
DBT (Dibutyl Tin)	0.2	ng/l	FEQS	0	< 5	< 5
Chlorophenols						

Appendix G

G8 Groundwater Beneath Landfill

Assessment Scenario

Water Abstraction

					Summary					
Lab Sample ID	Screening value	Units	Screening standard	Number of Exceedances		19500444				
Client Sample No									GW207A	GW207A
Client Sample ID										
Depth to Top									39.99	39.81-
Depth to Bottom									61.6	
Date Sampled									07/02/2019	06/03/2019
Sample Type									None Supplied	None Supplied
Pentachlorophenol	0.0004	mg/l	FEQS	0	< 0.001	< 1				
Others										
Bromoform	0.1	mg/l	WHO	0	< 0.001	< 1				
Carbon Tetrachloride	0.003	mg/l	UK DWS	0	< 0.001					
Lambda-cyhalothrin	0.1	ug/l	UK DWS	0	< 0.05					
Methane	N/A	ug/l	-	0	20.2	< 2.25				

Appendix G

G9 Groundwater Downgradient

Assessment Scenario

Water Abstraction

					Summary																
Lab Sample ID	Screening value	Units	Screening standard	Number of Exceedances	ARP16-CP-BH11	ARP16-CP-BH12	ARP16-CP-BH12	ARP16-CP-BH12	ARP16-CP-BH12	ARP16-CP-BH12	ARP16-CP-BH12	ARP16-CP-BH12	ARP16-CP-BH12	944697	961488	979300	1020257	1052136			
Client Sample No					ARP16-CP-BH11	ARP16-CP-BH12	ARP16-CP-BH12	ARP16-CP-BH12	ARP16-CP-BH12	ARP16-CP-BH12	ARP16-CP-BH12	ARP16-CP-BH12	ARP16-CP-BH12	ARP16-CP-BH12	ARP16-CP-BH12	ARP16-CP-BH12	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Client Sample ID					23.00	27.90	28.35	28.35	29.00	28.96	28.89	29.76	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth to Top													None Supplied	None Supplied							
Depth to Bottom													None Supplied	None Supplied							
Date Sampled					03/02/17	30/11/16	16/11/16	22/11/16	03/02/17	07/03/17	04/04/17	17/05/17	17/04/2018	15/05/2018	11/06/2018	08/08/2018	24/09/2018				
Sample Type															None Supplied	None Supplied	None Supplied				
Inorganics																					
Organics																					
General inorganics																					
pH	N/A	pH units	-	0	< 5			< 5	< 5	< 5	< 5	< 5	6.8	6.8	6.9	6.9	6.9				
Total Cyanide	50	ug/l	UK DWS	0	< 5			< 5	< 5	< 5	< 5	< 5	< 10	< 10	< 10	< 10	< 10				
Complex Cyanides	50	ug/l	UK DWS	0	< 5			< 5	< 5	< 5	< 5	< 5	< 10	< 10	< 10	< 10	< 10				
Free Cyanide	50	ug/l	UK DWS	0	< 5			< 5	< 5	< 5	< 5	< 5	< 10	< 10	< 10	< 10	< 10				
Thiocyanate as SCN	50	ug/l	UK DWS	0									< 200	< 200	< 200	< 200	< 200				
Sulphate as SO4	250000	ug/l	UK DWS	0	60000				27000	30000	31000	30000	53000	41100	48200	34600	29200				
Sulphide	250000	ug/l	UK DWS	0	< 100				< 100	< 100	< 100	< 100	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0				
Chloride	250	mg/l	UK DWS	0	103				41.92	42.88	43.25	44	72	66	69	71	57				
Fluoride	1500	ug/l	UK DWS	0	< 100				< 100	160	140	280	120	120	130	120	69				
Ammoniacal Nitrogen as N	390	ug/l	UK DWS	22	2490				< 20	< 20	< 20	30	220	< 15	32	160	220				
Nitrate as N	11.3	mg/l	UK DWS	1									7.63	6.06	6.25	5.03	3.8				
Nitrate as NO3	50	mg/l	UK DWS	2	34.37				15.2	14.69	4.37	16.15	33.8	26.9	27.7	22.3	16.8				
Nitrite as N	160	ug/l	UK DWS	4									6.4	28	23	31	17				
Nitrite as NO2	500	ug/l	UK DWS	4	420				< 100	< 100	< 100	< 100	21	93	74	100	56				
Alkalinity	N/A	mg/l	-	0	405				329	351	341	302	490	640	620	610	690				
Chemical Oxygen Demand (COD)	N/A	mg/l	-	0				10					3.9	6.1	18	15	7.1				
Biological Oxygen Demand (BOD)	N/A	mg/l	-	0				1					< 1.0	I/S	< 1.0	< 1.0	< 1.0				
Total Oxidised N (Nitrate/-ite)	11.3	mg/l	UK DWS	2	7.9				3.5	3.3	1	3.6	7.6	6.1	6.3	5.1	3.8				
Total Suspended Solids	N/A	mg/l	-	0	2353				3612	863	1821	164	60	58	56	150	78				
Hardness - Total	N/A	mg/l	-	0	397				408	422	430	413	475	444	440	450	386				
Bromide	N/A	mg/l	-	0									0.38	0.34	0.35	0.41	0.37				
Bromate	0.01	mg/l	UK DWS	0									< 0.002	< 0.002	< 0.002	< 0.002	< 0.002				
Phenols																					
Catechol	7.7	ug/l	FEQS	0									< 0.5	< 0.5	< 0.5	< 0.5	< 0.5				
Resorcinol	7.7	ug/l	FEQS	0				< 10					< 0.5	< 0.5	< 0.5	< 0.5	< 0.5				
Ethylphenol & Dimethylphenol	100	ug/l	FEQS	0									< 0.5	< 0.5	< 0.5	< 0.5	< 0.5				
Cresols	100	ug/l	FEQS	0				< 10					< 0.5	< 0.5	< 0.5	< 0.5	< 0.5				
Naphthols	7.7	ug/l	FEQS	0									< 0.5	< 0.5	< 0.5	< 0.5	< 0.5				
Isopropylphenol	7.7	ug/l	FEQS	0									< 0.5	< 0.5	< 0.5	< 0.5	< 0.5				
Phenol	7.7	ug/l	FEQS	0				< 10					< 0.5	< 0.5	< 0.5	< 0.5	< 0.5				
Trimethylphenol	100	ug/l	FEQS	0									< 0.5	< 0.5	< 0.5	< 0.5	< 0.5				
Speciated PAHs																					
Naphthalene	2	ug/l	FEQS	0	< 0.01	< 1		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Acenaphthylene	2	ug/l	FEQS	0	< 0.01	< 1		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Acenaphthene	2000	ug/l	USEPA	0	< 0.01	< 1		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Fluorene	2	ug/l	FEQS	0	< 0.01	< 1		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Phenanthrene	2	ug/l	FEQS	0	< 0.01	< 1		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Anthracene	0.1	ug/l	FEQS	0	< 0.01	< 1		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Fluoranthene	0.0063	ug/l	FEQS	0	< 0.01	< 1		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Pyrene	2	ug/l	FEQS	0	< 0.01	< 1		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Benzo(a)anthracene	2	ug/l	FEQS	0	< 0.01	< 1		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Chrysene	2	ug/l	FEQS	0	< 0.01	< 1		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Benzo(b)fluoranthene	0.1	ug/l	UK DWS	0	< 0.01	< 1		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Benzo(k)fluoranthene	0.1	ug/l	UK DWS	0	< 0.01	< 1		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Benzo(a)pyrene	0.01	ug/l	UK DWS	0	< 0.01	< 1		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Indeno(1,2,3-cd)pyrene	0.1	ug/l	UK DWS	0	< 0.01	< 1		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001				
Dibenzo(a,h)anthracene	2	ug/l	FEQS	0	< 0.01	< 1		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Benzo(g,h,i)perylene	0.1	ug/l	UK DWS	0	< 0.01	< 1		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001				
Heavy metals and metalloids																					

Appendix G

G9 Groundwater Downgradient

Assessment Scenario

Water Abstraction

					Summary																
Lab Sample ID	Screening value	Units	Screening standard	Number of Exceedances	ARP16-CP-BH11	ARP16-CP-BH12	ARP16-CP-BH12	ARP16-CP-BH12	ARP16-CP-BH12	ARP16-CP-BH12	ARP16-CP-BH12	ARP16-CP-BH12	ARP16-CP-BH12	944697	961488	979300	1020257	1052136			
Client Sample No					None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Client Sample ID					23.00	27.90	28.35	28.35	29.00	28.96	28.89	29.76	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth to Top					03/02/17	30/11/16	16/11/16	22/11/16	03/02/17	07/03/17	04/04/17	17/05/17	17/04/2018	15/05/2018	11/06/2018	08/08/2018	24/09/2018	None Supplied	None Supplied	None Supplied	None Supplied
Depth to Bottom					03/02/17	30/11/16	16/11/16	22/11/16	03/02/17	07/03/17	04/04/17	17/05/17	17/04/2018	15/05/2018	11/06/2018	08/08/2018	24/09/2018	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled					03/02/17	30/11/16	16/11/16	22/11/16	03/02/17	07/03/17	04/04/17	17/05/17	17/04/2018	15/05/2018	11/06/2018	08/08/2018	24/09/2018	None Supplied	None Supplied	None Supplied	None Supplied
Sample Type	03/02/17	30/11/16	16/11/16	22/11/16	03/02/17	07/03/17	04/04/17	17/05/17	17/04/2018	15/05/2018	11/06/2018	08/08/2018	24/09/2018	None Supplied	None Supplied	None Supplied	None Supplied				
Antimony	5	ug/l	UK DWS	0	< 1				< 1	< 1	< 1	< 1	< 1	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4			
Arsenic	10	ug/l	UK DWS	0	< 1			< 1	< 1	< 1	< 1	< 1	< 1	0.31	0.33	< 0.15	0.43	0.76			
Barium	700	ug/l	WHO	0				134						190	190	160	180	160			
Beryllium	4	ug/l	USEPA	0	< 1			< 1	< 1	< 1	< 1	< 1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1			
Boron	1000	ug/l	UK DWS	1				158						270	240	270	250	180			
Cadmium >200mg/l CaCO3	5	ug/l	UK DWS	0	< 0.2			< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02			
Calcium	N/A	mg/l	-	0	153				160	165	168	162	190	170	170	180	180	150			
Chromium VI	3.4	ug/l	FEQS	2				< 10						< 5.0	< 5.0	< 5.0	< 5.0	< 5.0			
Chromium III	4.7	ug/l	FEQS	0										1.6	1.2	< 1.0	1.3	1			
Chromium Total	50	ug/l	UK DWS	0	10			< 1	< 1	< 1	< 1	< 1	7	1.6	1.2	0.9	1.3	1			
Copper (bioavailable), DOC <1mg/l	2000	ug/l	UK DWS	0	3			< 1	< 1	< 1	< 1	< 1	< 1	4.8		1.6	9	2.2			
Iron	0.2	mg/l	UK DWS	2	0.152				0.022	< 0.01	< 0.01	< 0.01	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	0.008			
Lead	10	ug/l	UK DWS	0	2			< 1	< 1	< 1	< 1	< 1	< 1	< 0.2	< 0.2	0.2	< 0.2	< 0.2			
Magnesium	N/A	mg/l	-	0	4				2	2	2	2	3	2.6	3.1	2.3	2.3	2.2			
Manganese (bioavailable)	50	ug/l	UK DWS	26	48				25	21	13	12	13	17	17	17	52	47			
Mercury	1	ug/l	UK DWS	2	< 0.1			< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.56	0.27	0.58	< 0.05	0.23			
Molybdenum	70	ug/l	WHO	0										0.18	< 0.05	0.05	1.1	0.09			
Nickel >200 mg/l CaCO3	20	ug/l	UK DWS	2	4			2	2	2	2	2	2	6.3	2.3	1.8	6	3.1			
Potassium	N/A	mg/l	-	0	3				1	< 1	1	2	1.2	1.1	1.3	1.3	1.3	1.2			
Selenium	10	ug/l	UK DWS	0	1			< 1	< 1	< 1	< 1	< 1	< 1	1.6	1.5	3.4	1.4	1.6			
Sodium	50	mg/l	WHO	26	44				22	22	23	23	36	38	39	36	36	27			
Vanadium	20	ug/l	FEQS	0	1			< 1	< 1	< 1	< 1	< 1	< 1	0.4	0.4	0.4	0.4	0.8			
Zinc >250 mg/l CaCO3	5000	ug/l	USEPA	0	18			7	9	2	9	18	2.5	1.7	2.5	4.5	4.5	3.8			
Monoaromatics																					
Benzene	1	ug/l	UK DWS	0	< 1			< 1	< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			
Toluene	74	ug/l	FEQS	0	< 1			< 1	< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			
Ethylbenzene	20	ug/l	FEQS	0	< 1			< 1	< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			
Xylenes	30	ug/l	FEQS	0										< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			
MTBE	15	ug/l	WHO	0				< 1						< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			
Petroleum hydrocarbons																					
TPH	N/A	ug/l	-	0				< 5						< 1.0							
TPH >C5-C6 Aliphatics	15000	ug/l	WHO	0				< 1						< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			
TPH >C6-C8 Aliphatics	15000	ug/l	WHO	0				1						< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			
TPH >C8-C10 Aliphatics	300	ug/l	WHO	0				< 1						< 10	< 1.0	< 1.0	< 1.0	< 1.0			
TPH >C10-C12 Aliphatics	300	ug/l	WHO	0				< 5						< 10	< 10	< 10	< 10	< 10			
TPH >C12-C16 Aliphatics	300	ug/l	WHO	0				< 5						< 10	< 10	< 10	< 10	< 10			
TPH >C16-C21 Aliphatics	300	ug/l	WHO	0				< 5						< 10	< 10	< 10	< 10	< 10			
TPH >C21-C35 Aliphatics	300	ug/l	WHO	0				< 5						< 10	< 10	< 10	< 10	< 10			
TPH-CWG - Aliphatic >C16 - C35	300	ug/l	WHO	0										< 10	< 10	< 10	< 10	< 10			
TPH-CWG - Aliphatic >C35 - C44	300	ug/l	WHO	0										< 10	< 10	< 10	< 10	< 10			
C5-C35 Aliphatics	N/A	ug/l	-	0										< 10	< 10	< 10	< 10	< 10			
TPH-CWG - Aliphatic (C5 - C44)	N/A	ug/l	-	0										< 10	< 10	< 10	< 10	< 10			
TPH >C5-C6 Aromatics	10	ug/l	WHO	0				< 1						< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			
TPH >C7-C8 Aromatics	700	ug/l	WHO	0				< 1						< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			
TPH >C8-C9 Aromatics	300	ug/l	WHO	0				< 1													
TPH >C9-C10 Aromatics	300	ug/l	WHO	0				< 1													
TPH >C8-C10 Aromatics	300	ug/l	WHO	0										< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			
TPH >C10-C12 Aromatics	90	ug/l	WHO	0	< 5			< 5						< 10	< 10	< 10	< 10	< 10			
TPH >C12-C16 Aromatics	90	ug/l	WHO	0	< 5			< 5						< 10	< 10	< 10	< 10	< 10			
TPH >C16-C21 Aromatics	90	ug/l	WHO	0	< 5			< 5						< 10	< 10	< 10	< 10	< 10			
TPH >C21-C35 Aromatics	90	ug/l	WHO	0	< 5			< 5						< 10	< 10	< 10	< 10	< 10			
TPH >C35-C44 Aromatics	90	ug/l	WHO	0	< 5			< 5						< 10	< 10	< 10	< 10	< 10			

Appendix G

G9 Groundwater Downgradient

Assessment Scenario

Water Abstraction

					Summary																
Lab Sample ID	Screening value	Units	Screening standard	Number of Exceedances	ARP16-CP-BH11	ARP16-CP-BH12	ARP16-CP-BH12	ARP16-CP-BH12	ARP16-CP-BH12	ARP16-CP-BH12	ARP16-CP-BH12	ARP16-CP-BH12	ARP16-CP-BH12	944697	961488	979300	1020257	1052136			
Client Sample No					None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Client Sample ID					None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth to Top					23.00	27.90	28.35	28.35	29.00	28.96	28.89	29.76	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth to Bottom					None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled					03/02/17	30/11/16	16/11/16	22/11/16	03/02/17	07/03/17	04/04/17	17/05/17	17/04/2018	15/05/2018	11/06/2018	08/08/2018	24/09/2018	None Supplied	None Supplied	None Supplied	None Supplied
Sample Type																					
C5-C35 Aromatics	N/A	ug/l	-	0										< 10	< 10	< 10	< 10	< 10			
C5-C35 Aromatics	N/A	ug/l	-	0										< 10	< 10	< 10	< 10	< 10			
VOCs																					
Chloromethane	20	ug/l	FEQS	0	< 10			< 10	< 10	< 10	< 10	< 10	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			
Chloroethane	3	ug/l	UK DWS	0	< 1			< 1	< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			
Bromomethane	100	ug/l	UK DWS	0	< 1			< 1	< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			
Vinyl Chloride	0.5	ug/l	UK DWS	0	< 1			< 1	< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			
Trichlorofluoromethane	2.5	ug/l	FEQS	0	< 1			< 1	< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			
1,1-Dichloroethene	7	ug/l	USEPA	0	< 1			< 1	< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	400	ug/l	FEQS	0										< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			
Cis-1,2 Dichloroethene	50	ug/l	WHO	0	< 1			< 1	< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			
MTBE	15	ug/l	WHO	0				< 1						< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			
1,1 -Dichloroethane	3	ug/l	UK DWS	0	< 1		1	1	1	1	1	1	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			
2,2-Dichloropropane	40	ug/l	WHO	0	< 1			< 1	< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			
Trichloromethane	2.5	ug/l	FEQS	0	< 1			< 1	< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			
1,1,1-Trichloroethane	100	ug/l	FEQS	0	< 1		1	1	1	1	1	1	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			
1,2-Dichloroethane	3	ug/l	UK DWS	0	< 2			< 2	< 2	< 2	< 2	< 2	< 2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			
1,1-Dichloropropene	20	ug/l	WHO	0	< 1			< 1	< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			
Trans-1,2 Dichloroethene	50	ug/l	WHO	0	< 1			< 1	< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			
Benzene	1	ug/l	UK DWS	0	< 1			< 1	< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			
Tetrachloromethane	3	ug/l	UK DWS	0	< 1			< 1	< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			
1,2-Dichloropropane	40	ug/l	WHO	0	< 1			< 1	< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			
Trichloroethene	10	ug/l	UK DWS	2	< 1			< 1	< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			
Dibromomethane	100	ug/l	UK DWS	0	< 1			< 1	< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			
Bromodichloromethane	100	ug/l	UK DWS	0	< 10			< 10	< 10	< 10	< 10	< 10	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			
Cis-1,3 Dichloropropene	20	ug/l	WHO	0	< 1			< 1	< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			
Trans-1,3 Dichloropropene	20	ug/l	WHO	0	< 1			< 1	< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			
Toluene	74	ug/l	FEQS	0										< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			
1,1,2-Trichloroethane	400	ug/l	FEQS	0	< 1			< 1	< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			
1,3-Dichloropropane	40	ug/l	WHO	0	< 1			< 1	< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			
Dibromochloromethane	100	ug/l	WHO	0	< 3			< 3	< 3	< 3	< 3	< 3	< 3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			
Tetrachloroethene	10	ug/l	UK DWS	0	< 1			< 1	< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			
1,2-Dibromoethane	0.4	ug/l	WHO	0	< 1			< 1	< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			
Chlorobenzene	0.4	ug/l	FEQS	0	< 1			< 1	< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			
1,1,1,2-Tetrachloroethane	400	ug/l	USEPA	0	< 1			< 1	< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			
Ethylbenzene	20	ug/l	FEQS	0										< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			
m,p-Xylenes	30	ug/l	FEQS	0	< 1			< 1	< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			
Styrene	20	ug/l	WHO	0	< 1			< 1	< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			
Tribromomethane	#####	ug/l	Default	0										< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			
o-Xylene	30	ug/l	FEQS	0	< 1			< 1	< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			
1,1,2,2-Tetrachloroethane	400	ug/l	USEPA	0	< 1			< 1	< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			
Iso-propylbenzene	1	ug/l	UK DWS	0	< 1			< 1	< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			
Bromobenzene	1	ug/l	UK DWS	0	< 1			< 1	< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			
Propylbenzene	1	ug/l	UK DWS	0	< 1			< 1	< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			
2-Chlorotoluene	700	ug/l	WHO	0	< 1			< 1	< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			
4-Chlorotoluene	700	ug/l	WHO	0	< 1			< 1	< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			
1,3,5 Trimethylbenzene	1	ug/l	UK DWS	0	< 1			< 1	< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			
tert-Butylbenzene	1	ug/l	UK DWS	0	< 2			< 2	< 2	< 2	< 2	< 2	< 2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			
1,2,4 Trimethylbenzene	1	ug/l	UK DWS	0	< 1			< 1	< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			
sec-Butylbenzene	1	ug/l	UK DWS	0	< 1			< 1	< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			
1,3 Dichlorobenzene	3000	ug/l	USEPA	0	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			
p-Isopropyltoluene	74	ug/l	FEQS	0	< 1			< 1	< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			
1,2-Dichlorobenzene	1000	ug/l	WHO	0	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			

Appendix G

G9 Groundwater Downgradient

Assessment Scenario

Water Abstraction

					Summary																
Lab Sample ID	Screening value	Units	Screening standard	Number of Exceedances	ARP16-CP-BH11	ARP16-CP-BH12	ARP16-CP-BH12	ARP16-CP-BH12	ARP16-CP-BH12	ARP16-CP-BH12	ARP16-CP-BH12	ARP16-CP-BH12	ARP16-CP-BH12	944697	961488	979300	1020257	1052136			
Client Sample No					None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Client Sample ID					23.00	27.90	28.35	28.35	29.00	28.96	28.89	29.76	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth to Top					03/02/17	30/11/16	16/11/16	22/11/16	03/02/17	07/03/17	04/04/17	17/05/17	17/04/2018	15/05/2018	11/06/2018	08/08/2018	24/09/2018	None Supplied	None Supplied	None Supplied	None Supplied
Depth to Bottom					None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled	03/02/17	30/11/16	16/11/16	22/11/16	03/02/17	07/03/17	04/04/17	17/05/17	17/04/2018	15/05/2018	11/06/2018	08/08/2018	24/09/2018	None Supplied	None Supplied	None Supplied	None Supplied				
Sample Type	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied				
1,4 Dichlorobenzene	300	ug/l	WHO	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			
n-Butylbenzene	1	ug/l	UK DWS	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			
1,2-Dibromo-3-chloropropane	1	ug/l	WHO	0	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			
1,2,4-Trichlorobenzene	70	ug/l	USEPA	0	< 3	< 1	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			
Hexachlorobutadiene	0.6	ug/l	WHO	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			
2,6 Chloronitrotoluene	700	ug/l	WHO	0										< 1	< 1	< 1	< 1	< 1			
4,2 Chloronitrotoluene	700	ug/l	WHO	0										< 1	< 1	< 1	< 1	< 1			
4,3 Chloronitrotoluene	700	ug/l	WHO	0										< 1	< 1	< 1	< 1	< 1			
2,4 Chloronitrotoluene	700	ug/l	WHO	0										< 1	< 1	< 1	< 1	< 1			
2,5 Chloronitrotoluene	700	ug/l	WHO	0										< 1	< 1	< 1	< 1	< 1			
1,2,3-Trichlorobenzene	0.4	ug/l	FEQS	0	< 3		< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			
1,2,3-Trichloropropane	40	ug/l	WHO	0	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			
1,3,5-Trichlorobenzene	0.4	ug/l	FEQS	0										< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			
Bromochloromethane	100	ug/l	WHO	0	< 5		< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			
Dichloromethane	20	ug/l	FEQS	0	< 5		< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 100	< 100	< 100	< 100	< 100			
Carbon disulphide	#####	ug/l	Default	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			
Dichlorodifluoromethane	20	ug/l	FEQS	0	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			
SVOCS																					
Phenol	7.7	ug/l	FEQS	0	< 1	< 1			< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			
2-Chlorophenol	50	ug/l	FEQS	0	< 1	< 1			< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			
Bis(2-chloroethyl)ether	1000	ug/l	USEPA	0	< 1	< 1			< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			
Bis(2-chloroisopropyl)ether	1000	ug/l	USEPA	0	< 1	< 1			< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			
2-Methylphenol	100	ug/l	FEQS	0	< 1	< 1			< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			
Hexachloroethane	40	ug/l	USEPA	0	< 1	< 1			< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			
Nitrobenzene	1	ug/l	UK DWS	0	< 1	< 1			< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			
4-Methylphenol	100	ug/l	FEQS	0	< 1	< 1			< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			
Isophorone	7000	ug/l	USEPA	0	< 1	< 1			< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			
2-Nitrophenol	7.7	ug/l	FEQS	0	< 1	< 1			< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			
2,4-Dimethylphenol	100	ug/l	FEQS	0	< 1	< 1			< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			
Bis(2-chloroethoxy)methane	#####	ug/l	Default	0	< 1	< 1			< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			
2,4-Dichlorophenol	4.2	ug/l	FEQS	0	< 1	< 1			< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			
4-Chloro-3-methylphenol	40	ug/l	FEQS	0	< 1	< 1			< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			
2,4,6-trichlorophenol	200	ug/l	WHO	0	< 1	< 1			< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			
2,4,5-Trichlorophenol	200	ug/l	WHO	0	< 1	< 1			< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			
2-Methylnaphthalene	2	ug/l	FEQS	0	< 1	< 1			< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			
2-Chloronaphthalene	2	ug/l	FEQS	0	< 1	< 1			< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			
Dimethylphthalate	800	ug/l	FEQS	0	< 1	< 1			< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			
2,6-Dinitrotoluene	100	ug/l	USEPA	0	< 1	< 1			< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			
2,4-Dinitrotoluene	100	ug/l	USEPA	0	< 1	< 1			< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			
Dibenzofuran	2	ug/l	FEQS	0	< 1	< 1			< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			
Diethyl phthalate	200	ug/l	FEQS	0	< 1	< 1			< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			
Bromophenyl phenyl ether	#####	ug/l	Default	0	< 1	< 1			< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			
Hexachlorobenzene	1	ug/l	USEPA	0	< 0.01		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			
Phenanthrene	2	ug/l	FEQS	0										< 0.01	< 0.01	< 0.01	< 0.01	< 0.01			
Carbazole	2	ug/l	FEQS	0	< 1	< 1			< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			
Di-n-butyl phthalate	8	ug/l	FEQS	0	< 1	< 1			< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			
Butyl benzyl phthalate	7.5	ug/l	FEQS	0	< 1	< 1			< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			
PCBs by GC-ECD - WHO 12																					
PCB Congener 77	25	ug/l	FEQS	0		< 0.001								< 0.020	< 0.020	< 0.020	< 0.020	< 0.020			
PCB Congener 81	25	ug/l	FEQS	0		< 0.001								< 0.020	< 0.020	< 0.020	< 0.020	< 0.020			
PCB Congener 105	25	ug/l	FEQS	0		< 0.001								< 0.020	< 0.020	< 0.020	< 0.020	< 0.020			
PCB Congener 114	25	ug/l	FEQS	0		< 0.001								< 0.020	< 0.020	< 0.020	< 0.020	< 0.020			
PCB Congener 118	25	ug/l	FEQS	0		< 0.002								< 0.020	< 0.020	< 0.020	< 0.020	< 0.020			

Appendix G

G9 Groundwater Downgradient

Assessment Scenario

Water Abstraction

					Summary																
Lab Sample ID	Screening value	Units	Screening standard	Number of Exceedances	ARP16-CP-BH11	ARP16-CP-BH12	ARP16-CP-BH12	ARP16-CP-BH12	ARP16-CP-BH12	ARP16-CP-BH12	ARP16-CP-BH12	ARP16-CP-BH12	ARP16-CP-BH12	944697	961488	979300	1020257	1052136			
Client Sample No					ARP16-CP-BH11	ARP16-CP-BH12	ARP16-CP-BH12	ARP16-CP-BH12	ARP16-CP-BH12	ARP16-CP-BH12	ARP16-CP-BH12	ARP16-CP-BH12	ARP16-CP-BH12	ARP16-CP-BH12	ARP16-CP-BH12	ARP16-CP-BH12	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Client Sample ID					23.00	27.90	28.35	28.35	29.00	28.96	28.89	29.76	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth to Top					None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth to Bottom					None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled					03/02/17	30/11/16	16/11/16	22/11/16	03/02/17	07/03/17	04/04/17	17/05/17	17/04/2018	15/05/2018	11/06/2018	08/08/2018	24/09/2018				
Sample Type																					
PCB Congener 123	25	ug/l	FEQS	0	< 0.001									< 0.020	< 0.020	< 0.020	< 0.020	< 0.020			
PCB Congener 126	25	ug/l	FEQS	0	< 0.001									< 0.020	< 0.020	< 0.020	< 0.020	< 0.020			
PCB Congener 156	25	ug/l	FEQS	0	< 0.001									< 0.020	< 0.020	< 0.020	< 0.020	< 0.020			
PCB Congener 157	25	ug/l	FEQS	0	< 0.001									< 0.020	< 0.020	< 0.020	< 0.020	< 0.020			
PCB Congener 167	25	ug/l	FEQS	0	< 0.001									< 0.020	< 0.020	< 0.020	< 0.020	< 0.020			
PCB Congener 169	25	ug/l	FEQS	0	< 0.001									< 0.020	< 0.020	< 0.020	< 0.020	< 0.020			
PCB Congener 189	25	ug/l	FEQS	0	< 0.001									< 0.020	< 0.020	< 0.020	< 0.020	< 0.020			
PCBs	25	ug/l	FEQS	0										< 0.300	< 0.300	< 0.300	< 0.300	< 0.300			
Environmental Forensics																					
PFOS	0.3	ug/l	DWS	1										0.28	0.33	0.25	0.19	0.28			
PFOS	0.3	ug/l	DWS	0																	
PFOA	0.3	ug/l	DWS	0										0.14	0.14	0.14	0.13	0.1			
Metaldehyde	0.1	ug/l	UK DWS	20										< 0.1	0.2	0.2	< 0.1	< 0.1			
Chloronitrotoluenes (sum)	10	ug/l	FEQS	0										< 0.1	< 0.1	< 0.1	< 0.1	< 0.1			
Chlorbufam	0.1	ug/l	UK DWS	0			< 1.0							< 0.10	< 0.10	< 0.10	< 0.10	< 0.10			
Chloroxuron	0.1	ug/l	UK DWS	0			< 0.1							< 0.10	< 0.10	< 0.10	< 0.10	< 0.10			
Chlorpropham	0.1	ug/l	UK DWS	0			< 1.0							< 0.10	< 0.10	< 0.10	< 0.10	< 0.10			
Ethiofencarb	0.1	ug/l	UK DWS	0			< 0.1							< 0.10	< 0.10	< 0.10	< 0.10	< 0.10			
Phenmedipham	0.1	ug/l	UK DWS	0			< 0.1							< 0.10	< 0.10	< 0.10	< 0.10	< 0.10			
Propham	0.1	ug/l	UK DWS	0			< 0.1							< 0.10	< 0.10	< 0.10	< 0.10	< 0.10			
Dimefuron	0.1	ug/l	UK DWS	0			< 0.1							< 0.10	< 0.10	< 0.10	< 0.10	< 0.10			
Metoxuron	0.1	ug/l	UK DWS	1			< 0.1							< 0.10	< 0.10	< 0.10	< 0.10	< 0.10			
Pencycuron	0.1	ug/l	UK DWS	0			< 0.1							< 0.10	< 0.10	< 0.10	< 0.10	< 0.10			
o,p-Methoxychlor	0.1	ug/l	UK DWS	0			< 0.01							< 0.01	< 0.01	< 0.01	< 0.01	< 0.01			
Demeton-s-methyl	0.1	ug/l	UK DWS	0										< 0.10	< 0.10	< 0.10	< 0.10	< 0.10			
Diclofop	0.1	ug/l	UK DWS	0			< 0.02							< 0.02	< 0.02	< 0.02	< 0.02	< 0.02			
Fenvalerate	0.1	ug/l	UK DWS	0			< 0.1							< 0.10	< 0.10	< 0.10	< 0.10	< 0.10			
Cyhalothrin	0.1	ug/l	UK DWS	0			< 0.1							< 0.10	< 0.10	< 0.10	< 0.10	< 0.10			
Ametryn	0.1	ug/l	UK DWS	0	< 0.1				< 0.1					< 0.10	< 0.10	< 0.10	< 0.10	< 0.10			
Atrazine-methoxy	0.1	ug/l	UK DWS	0			< 0.1							< 0.10	< 0.10	< 0.10	< 0.10	< 0.10			
Bromacil	0.1	ug/l	UK DWS	0	< 0.02				< 0.02					< 0.02	< 0.02	< 0.02	< 0.02	< 0.02			
Flamprop	0.1	ug/l	UK DWS	0			< 0.02							< 0.02	< 0.02	< 0.02	< 0.02	< 0.02			
Flamprop-isopropyl	0.1	ug/l	UK DWS	0			< 0.02							< 0.02	< 0.02	< 0.02	< 0.02	< 0.02			
Prometon	0.1	ug/l	UK DWS	0			< 0.1							< 0.10	< 0.10	< 0.10	< 0.10	< 0.10			
Simetryn	0.1	ug/l	UK DWS	0			< 0.1							< 0.10	< 0.10	< 0.10	< 0.10	< 0.10			
4-Nitrophenol	7.7	ug/l	FEQS	0	< 1	< 1			< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05	< 0.05			
Hexachlorocyclopentadiene	50	ug/l	USEPA	0	< 1	< 1			< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			
Perylene	2	ug/l	FEQS	0	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			
n-Nitroso-n-dipropylamine	0.1	ug/l	UK DWS	0	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			
Carbamates																					
Pirimicarb	100	ng/l	UK DWS	0			< 0.1							< 20	< 20	< 20	< 20	< 20			
Carbetamide	100	ng/l	UK DWS	0			< 0.1							< 20	< 20	< 20	< 20	< 20			
Phthalates																					
Bis(2-ethylhexyl)phthalate	8	ug/l	WHO	0	< 2	< 2			< 2	< 2	< 2	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			
Di-n-octyl phthalate	20	ug/l	FEQS	0	< 10	< 10			< 10	< 10	< 10	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			
Total phthalates	N/A	mg/l	-	0													< 3.5				
Glycols																					
Ethylene Glycol	ISSUE	mg/l	Default	0										< 10	< 10	< 10	< 10	< 10			
Diethylene Glycol	ISSUE	mg/l	Default	0										< 10	< 10	< 10	< 10	< 10			
1,2-Propanediol	ISSUE	mg/l	Default	0										< 10	< 10	< 10	< 10	< 10			
Rodenticides																					
Triazine Pesticides																					

Appendix G

G9 Groundwater Downgradient

Assessment Scenario

Water Abstraction

					Summary																
Lab Sample ID	Screening value	Units	Screening standard	Number of Exceedances	ARP16-CP-BH11	ARP16-CP-BH12	ARP16-CP-BH12	ARP16-CP-BH12	ARP16-CP-BH12	ARP16-CP-BH12	ARP16-CP-BH12	ARP16-CP-BH12	944697	961488	979300	1020257	1052136				
Client Sample No					None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	
Client Sample ID					23.00	27.90	28.35	28.35	29.00	28.96	28.89	29.76	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	
Depth to Top					03/02/17	30/11/16	16/11/16	22/11/16	03/02/17	07/03/17	04/04/17	17/05/17	17/04/2018	15/05/2018	11/06/2018	08/08/2018	24/09/2018	None Supplied	None Supplied	None Supplied	
Depth to Bottom																					
Date Sampled																					
Sample Type																					
Atrazine	0.1	ug/l	UK DWS	18			< 0.1						< 0.05	< 0.05	< 0.05	< 0.05	< 0.05				
Simazine	0.1	ug/l	UK DWS	0			< 0.1						< 0.05	< 0.05	< 0.05	< 0.05	< 0.05				
Prometryn	0.1	ug/l	UK DWS	0			< 0.1						< 0.05	< 0.05	< 0.05	< 0.05	< 0.05				
Propazine	0.1	ug/l	UK DWS	0			< 0.1						< 0.05	< 0.05	< 0.05	< 0.05	< 0.05				
Terbutylazine	0.1	ug/l	UK DWS	0			< 0.1						< 0.05	< 0.05	< 0.05	< 0.05	< 0.05				
Terbutryn	0.1	ug/l	UK DWS	0			< 0.1						< 0.05	< 0.05	< 0.05	< 0.05	< 0.05				
Acid herbicides esters																					
2,4-D Methyl Ester	0.1	ug/l	UK DWS	0									< 0.02	< 0.02	< 0.02	< 0.02	< 0.02				
2,4-D butyl ester	0.1	ug/l	UK DWS	0									< 0.10	< 0.10	< 0.10	< 0.10	< 0.10				
2,4-D ethyl ester	0.1	ug/l	UK DWS	0									< 0.10	< 0.10	< 0.10	< 0.10	< 0.10				
2,4-D isobutyl ester	0.1	ug/l	UK DWS	0									< 0.10	< 0.10	< 0.10	< 0.10	< 0.10				
2,4-D isopropyl ester	0.1	ug/l	UK DWS	0									< 0.10	< 0.10	< 0.10	< 0.10	< 0.10				
Acid Herbicides																					
2,3,6-TBA	0.1	ug/l	UK DWS	0			< 0.02						< 0.02	< 0.02	< 0.02	< 0.02	< 0.02				
Benazolin	0.1	ug/l	UK DWS	0			< 0.02						< 0.02	< 0.02	< 0.02	< 0.02	< 0.02				
Bromoxynil	0.1	ug/l	UK DWS	0			< 0.02						< 0.02	< 0.02	< 0.02	< 0.02	< 0.02				
Clopyralid	0.1	ug/l	UK DWS	0			< 0.02						< 0.02	< 0.02	< 0.02	< 0.02	< 0.02				
Ioxynil	0.1	ug/l	UK DWS	0			< 0.02						< 0.02	< 0.02	< 0.02	< 0.02	< 0.02				
2,4,5-T	0.1	ug/l	UK DWS	0			< 0.02						< 0.02	< 0.02	< 0.02	< 0.02	< 0.02				
2,4,5-TP	0.1	ug/l	UK DWS	0			< 0.02						< 0.02	< 0.02	< 0.02	< 0.02	< 0.02				
2,4-D	0.1	ug/l	UK DWS	1			< 0.02						< 0.02	< 0.02	< 0.02	< 0.02	< 0.02				
2,4-DB	0.1	ug/l	UK DWS	0			< 0.02						< 0.02	< 0.02	< 0.02	< 0.02	< 0.02				
Dicamba	0.1	ug/l	UK DWS	1			< 0.02						< 0.02	< 0.02	< 0.02	< 0.02	< 0.02				
Dichlorprop	0.1	ug/l	UK DWS	0			< 0.02						< 0.02	< 0.02	< 0.02	< 0.02	< 0.02				
MCPA	0.1	ug/l	UK DWS	0			< 0.02						< 0.02	< 0.02	< 0.02	< 0.02	< 0.02				
MCPB	0.1	ug/l	UK DWS	0			< 0.02						< 0.02	< 0.02	< 0.02	< 0.02	< 0.02				
Mecoprop	0.1	ug/l	UK DWS	15			< 0.02						< 0.02	< 0.02	0.02	0.12	0.04				
Picloram	0.1	ug/l	UK DWS	0			< 0.02						< 0.02	< 0.02	< 0.02	< 0.02	< 0.02				
4-Chlorophenoxyacetic acid	0.1	ug/l	UK DWS	0			< 0.02						< 0.02	< 0.02	< 0.02	< 0.02	< 0.02				
Organochlorine Pesticides																					
Aldrin	0.03	ug/l	UK DWS	0			< 0.01						< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
alpha-HCH (alpha-BHC)	0.1	ug/l	UK DWS	0			< 0.01						< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
beta-HCH (beta-BHC)	0.1	ug/l	UK DWS	0			< 0.01						< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
delta-HCH (delta-BHC)	0.1	ug/l	UK DWS	0			< 0.01						< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Dieldrin	0.03	ug/l	UK DWS	0			< 0.01						< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Endosulfan	0.1	ug/l	UK DWS	0			< 0.01						< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Endosulfan	0.1	ug/l	UK DWS	0			< 0.01						< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Endosulfan Sulphate	0.1	ug/l	UK DWS	0			< 0.01						< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Endrin	0.1	ug/l	UK DWS	0			< 0.01						< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
gamma-HCH (gamma-BHC)	0.1	ug/l	UK DWS	0			< 0.01						< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Heptachlor	0.03	ug/l	UK DWS	0			< 0.01						< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Heptachlor Epoxide	0.03	ug/l	UK DWS	0			< 0.01						< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Isodrin	0.1	ug/l	UK DWS	0			< 0.01						< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Methoxychlor	0.1	ug/l	UK DWS	0			< 0.01						< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
o,p-DDE	0.1	ug/l	UK DWS	0			< 0.01						< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
DDT	0.1	ug/l	UK DWS	0			< 0.01						< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
o,p-TDE (o,p-DDD)	0.1	ug/l	UK DWS	0			< 0.01						< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
p,p-DDE	0.1	ug/l	UK DWS	0			< 0.01						< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
DDT	0.1	ug/l	UK DWS	0			< 0.01						< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
p,p-TDE (o,p-DDD)	0.1	ug/l	UK DWS	0			< 0.01						< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Trifluralin	0.1	ug/l	UK DWS	0			< 0.01						< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Organonitrogen pesticides																					
Bentazone	0.1	ug/l	UK DWS	1			< 0.02						< 0.02	< 0.02	< 0.02	< 0.02	< 0.02				

Appendix G G9 Groundwater Downgradient

Assessment Scenario

Water Abstraction

					Summary															
Lab Sample ID	Screening value	Units	Screening standard	Number of Exceedances	ARP16-CP-BH11	ARP16-CP-BH12	ARP16-CP-BH12	ARP16-CP-BH12	ARP16-CP-BH12	ARP16-CP-BH12	ARP16-CP-BH12	ARP16-CP-BH12	944697	961488	979300	1020257	1052136			
Client Sample No					ARP16-CP-BH11	ARP16-CP-BH12	ARP16-CP-BH12	ARP16-CP-BH12	ARP16-CP-BH12	ARP16-CP-BH12	ARP16-CP-BH12	ARP16-CP-BH12	ARP16-CP-BH12	ARP16-CP-BH12	ARP16-CP-BH12	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Client Sample ID																None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth to Top					23.00	27.90	28.35	28.35	29.00	28.96	28.89	29.76	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied		
Depth to Bottom													None Supplied	None Supplied						
Date Sampled					03/02/17	30/11/16	16/11/16	22/11/16	03/02/17	07/03/17	04/04/17	17/05/17	17/04/2018	15/05/2018	11/06/2018	08/08/2018	24/09/2018			
Sample Type												None Supplied	None Supplied	None Supplied						
Chlorpyrifos	0.0001	mg/l	UK DWS	0			< 0.00001													
Pendimethalin	0.0001	mg/l	UK DWS	0			< 0.00001													
Bromoform	0.1	mg/l	WHO	0	< 0.001			< 0.001	< 0.001	< 0.001	< 0.001	< 0.001								
Methane	N/A	ug/l	-	0	2				1	< 1	< 2	< 1								

Appendix G

G9 Groundwater Downgradient

Assessment Scenario

Water Abstraction

				Summary																	
Lab Sample ID	Screening value	Units	Screening standard	Number of Exceedances	1074201	1096401	1106499	1133262	1163626	1182058	ARP16-LF-BH13	ARP16-LF-BH13	ARP16-LF-BH13	ARP16-LF-BH13	ARP16-LF-BH13	944696	961487				
Client Sample No					ARP16-CP-BH12	ARP16-CP-BH12	ARP16-CP-BH12	ARP16-CP-BH12	ARP16-CP-BH12	ARP16-LF-BH13	ARP16-LF-BH13	ARP16-LF-BH13	ARP16-LF-BH13	ARP16-LF-BH13	ARP16-LF-BH13	ARP16-LF-BH13	ARP16-LF-BH13	ARP16-LF-BH13	ARP16-LF-BH13	ARP16-LF-BH13	
Client Sample ID					None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	19/01/1900	21/01/1900	22/01/1900	22/01/1900	23/01/1900	None Supplied	None Supplied
Depth to Top					None Supplied	None Supplied	None Supplied	None Supplied	35.00	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied						None Supplied	None Supplied
Depth to Bottom														29.62-40.31						None Supplied	None Supplied
Date Sampled					23/10/2018	21/11/2018	03/12/2018	16/01/2019	25/02/2019	20/03/2019	16/11/16	30/11/16	07/03/17	04/04/17	17/05/17	17/04/2018	15/05/2018				
Sample Type					None Supplied	None Supplied	None Supplied	None Supplied													
Inorganics																					
General inorganics																					
pH	N/A	pH units	-	0	6.9	6.9	6.9	7	7	7.3						6.7	6.7				
Total Cyanide	50	ug/l	UK DWS	0	< 10	< 10	< 10	< 10	< 10	< 10	< 5		< 5	< 5	< 5	< 10	< 10				
Complex Cyanides	50	ug/l	UK DWS	0	< 10	< 10	< 10	< 10	< 10	< 10	< 5		< 5	< 5	< 5	< 10	< 10				
Free Cyanide	50	ug/l	UK DWS	0	< 10	< 10	< 10	< 10	< 10	< 10	< 5		< 5	< 5	< 5	< 10	< 10				
Thiocyanate as SCN	50	ug/l	UK DWS	0	< 200	< 200	< 200	< 200	< 200	< 200			< 100	< 100	< 100	< 200	< 200				
Sulphate as SO4	250000	ug/l	UK DWS	0	28600	28300	30700	26300	23300	26100			49000	47000	67000	41100	43800				
Sulphide	250000	ug/l	UK DWS	0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0			< 100	< 100	< 100	< 5.0	< 5.0				
Chloride	250	mg/l	UK DWS	0	70	56	48	52	55	54			35.22	20.65	< 100	150	120				
Fluoride	1500	ug/l	UK DWS	0	170	160	130	110	130	140			140	110	280	120	140				
Ammoniacal Nitrogen as N	390	ug/l	UK DWS	22	370	260	170	170	260	410			410	40	980	4800	3800				
Nitrate as N	11.3	mg/l	UK DWS	1	2.66	0.2	3.42	3.11	2.7	3.27						3.73	5.43				
Nitrate as NO3	50	mg/l	UK DWS	2	11.8	0.91	15.1	13.8	12	14.5			50.69	22.66	32.49	16.5	24				
Nitrite as N	160	ug/l	UK DWS	4	2	3.8	44	7.8	< 1.0	36						21	21				
Nitrite as NO2	500	ug/l	UK DWS	4	6.5	12	140	26	< 5.0	120			270	160	340	69	68				
Alkalinity	N/A	mg/l	-	0	420	400	130	460	340	640			357	313	388	780	760				
Chemical Oxygen Demand (COD)	N/A	mg/l	-	0	< 2.0	4.4	14	11	12	12	7		< 6	< 6	19	27	21				
Biological Oxygen Demand (BOD)	N/A	mg/l	-	0	< 1.0	1.9	< 1.0	< 1.0	3.8	1.1	< 1		< 1	1	5	1.2	< 1.0				
Total Oxidised N (Nitrate/-ite)	11.3	mg/l	UK DWS	2	2.7	< 0.3	3.5	3.1	2.7	3.3			11.5	5.2	7.4	3.8	5.4				
Total Suspended Solids	N/A	mg/l	-	0	84	280	75	61	< 2.0	< 2.0			1255	2680	139	17	33				
Hardness - Total	N/A	mg/l	-	0	427	473	522	411	484	347			415	366	478	342	425				
Bromide	N/A	mg/l	-	0	0.57	0.43	0.57	0.26	0.33	0.28						1.3	0.91				
Bromate	0.01	mg/l	UK DWS	0	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002						< 0.002	< 0.002				
Phenols																					
Catechol	7.7	ug/l	FEQS	0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5						< 0.5	< 0.5				
Resorcinol	7.7	ug/l	FEQS	0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10		< 10	< 10	< 10	< 0.5	< 0.5				
Ethylphenol & Dimethylphenol	100	ug/l	FEQS	0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5						< 0.5	< 0.5				
Cresols	100	ug/l	FEQS	0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10		< 10	< 10	< 10	< 0.5	< 0.5				
Naphthols	7.7	ug/l	FEQS	0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5						< 0.5	< 0.5				
Isopropylphenol	7.7	ug/l	FEQS	0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5						< 0.5	< 0.5				
Phenol	7.7	ug/l	FEQS	0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10		< 10	< 10	< 10	< 0.5	< 0.5				
Trimethylphenol	100	ug/l	FEQS	0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5						< 0.5	< 0.5				
Speciated PAHs																					
Naphthalene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 1	< 0.02	< 0.01	0.03	< 0.01	< 0.01				
Acenaphthylene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 1	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01				
Acenaphthene	2000	ug/l	USEPA	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.02	< 1	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01				
Fluorene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 1	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01				
Phenanthrene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 1	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01				
Anthracene	0.1	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 1	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01				
Fluoranthene	0.0063	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 1	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01				
Pyrene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 1	< 0.02	< 0.01	0.01	< 0.01	< 0.01				
Benzo(a)anthracene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 1	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01				
Chrysene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 1	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01				
Benzo(b)fluoranthene	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 1	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01				
Benzo(k)fluoranthene	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 1	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01				
Benzo(a)pyrene	0.01	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 1	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01				
Indeno(1,2,3-cd)pyrene	0.1	ug/l	UK DWS	0	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 1	< 0.02	< 0.01	< 0.01	< 0.001	< 0.001				
Dibenzo(a,h)anthracene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 1	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01				
Benzo(g,h,i)perylene	0.1	ug/l	UK DWS	0	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 1	< 0.02	< 0.01	< 0.01	< 0.001	< 0.001				
Heavy metals and metalloids																					

Appendix G

G9 Groundwater Downgradient

Assessment Scenario

Water Abstraction

					Summary												
Lab Sample ID	Screening value	Units	Screening standard	Number of Exceedances	1074201	1096401	1106499	1133262	1163626	1182058	ARP16-LF-BH13	ARP16-LF-BH13	ARP16-LF-BH13	ARP16-LF-BH13	ARP16-LF-BH13	944696	961487
Client Sample No					ARP16-CP-BH12	ARP16-CP-BH12	ARP16-CP-BH12	ARP16-CP-BH12	ARP16-CP-BH12	ARP16-CP-BH12	ARP16-LF-BH13	ARP16-LF-BH13	ARP16-LF-BH13	ARP16-LF-BH13	ARP16-LF-BH13	ARP16-LF-BH13	ARP16-LF-BH13
Client Sample ID	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	19/01/1900	21/01/1900	22/01/1900	22/01/1900	23/01/1900	None Supplied	None Supplied
Depth to Top	None Supplied	None Supplied	None Supplied	None Supplied	35.00	None Supplied	None Supplied	None Supplied	None Supplied	29.62-40.31						None Supplied	None Supplied
Depth to Bottom																	
Date Sampled	23/10/2018	21/11/2018	03/12/2018	16/01/2019	25/02/2019	20/03/2019	16/11/16	30/11/16	07/03/17	04/04/17	17/05/17	17/04/2018	15/05/2018				
Sample Type	None Supplied	None Supplied	None Supplied	None Supplied													
Antimony	5	ug/l	UK DWS	0	< 0.4	< 0.4	0.6	0.6	< 0.4	< 0.4			< 1	< 1	< 1	< 0.4	< 0.4
Arsenic	10	ug/l	UK DWS	0	0.36	0.18	0.19	0.22	0.26	0.49	< 1		< 1	< 1	< 1	0.65	0.61
Barium	700	ug/l	WHO	0	150	150	150	140	150	110	200					200	190
Beryllium	4	ug/l	USEPA	0	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 1		< 1	< 1	< 1	< 0.1	< 0.1
Boron	1000	ug/l	UK DWS	1	220	170	170	140	160	170	622					1000	790
Cadmium >200mg/l CaCO3	5	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.2		< 0.2	< 0.2	< 0.2	0.06	0.04
Calcium	N/A	mg/l	-	0	170	190	200	160	190	140			160	142	184	130	160
Chromium VI	3.4	ug/l	FEQS	2	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10		< 10	< 10	< 10	< 5.0	< 5.0
Chromium III	4.7	ug/l	FEQS	0	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0						2	1.1
Chromium Total	50	ug/l	UK DWS	0	1	< 0.2	1	0.8	0.9	0.9	< 1		10	< 1	10	2	1.1
Copper (bioavailable), DOC <1mg/l	2000	ug/l	UK DWS	0	1.8	< 0.5	1.6	3.6	3.8	1.8	3		1	< 1	3	4.8	
Iron	0.2	mg/l	UK DWS	2	< 0.004	0.026	< 0.004	< 0.004	0.057	0.006			0.01	< 0.01	0.014	0.18	0.015
Lead	10	ug/l	UK DWS	0	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 1		< 1	< 1	< 1	1.2	< 0.2
Magnesium	N/A	mg/l	-	0	2.6	2.5	2.6	2.4	2	2.4			4	3	4	5.1	4.4
Manganese (bioavailable)	50	ug/l	UK DWS	26	82	51	47	63	99	53			26	1	145	540	330
Mercury	1	ug/l	UK DWS	2	0.41	0.41	< 0.05	0.96	< 0.05	0.42	< 0.1		< 0.1	< 0.1	< 0.1	< 0.05	< 0.05
Molybdenum	70	ug/l	WHO	0	0.13	< 0.05	0.2	0.38	0.14	1.3						0.4	0.17
Nickel >200 mg/l CaCO3	20	ug/l	UK DWS	2	4	2.2	2.8	3.6	3.5	2.9	11		3	< 1	13	23	18
Potassium	N/A	mg/l	-	0	1.6	1.4	1.5	1.4	1.4	1.6			2	3	4	3.9	3.4
Selenium	10	ug/l	UK DWS	0	0.8	2.2	1.5	1.6	< 0.6	1.3	< 1		2	2	< 1	3.4	3.4
Sodium	50	mg/l	WHO	26	32	27	31	24	28	26			34	17	102	100	120
Vanadium	20	ug/l	FEQS	0	0.4	0.3	0.3	0.4	0.4	0.3	< 1		< 1	< 1	< 1	0.9	0.5
Zinc >250 mg/l CaCO3	5000	ug/l	USEPA	0	5.5	< 0.5	2.7	3.2	3.8	1.2	4		< 1	4	11	4.3	2.8
Monoaromatics																	
Benzene	1	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1	< 1.0	< 1.0
Toluene	74	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1	< 1.0	< 1.0
Ethylbenzene	20	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1	< 1.0	< 1.0
Xylenes	30	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0						< 1.0	< 1.0
MTBE	15	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1	< 1.0	< 1.0
Petroleum hydrocarbons																	
TPH	N/A	ug/l	-	0							< 5		< 5	< 5	< 5	< 1.0	
TPH >C5-C6 Aliphatics	15000	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1	< 1.0	< 1.0
TPH >C6-C8 Aliphatics	15000	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1	< 1.0	< 1.0
TPH >C8-C10 Aliphatics	300	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1	< 10	< 10
TPH >C10-C12 Aliphatics	300	ug/l	WHO	0	< 10	< 10	< 10	< 10	< 10	< 10	< 5		< 5	< 5	< 5	< 10	< 10
TPH >C12-C16 Aliphatics	300	ug/l	WHO	0	< 10	< 10	< 10	< 10	< 10	< 10	< 5		< 5	< 5	< 5	< 10	< 10
TPH >C16-C21 Aliphatics	300	ug/l	WHO	0	< 10	< 10	< 10	< 10	< 10	< 10	< 5		< 5	< 5	< 5	< 10	< 10
TPH >C21-C35 Aliphatics	300	ug/l	WHO	0	< 10	< 10	< 10	< 10	< 10	< 10	< 5		< 5	< 5	< 5	< 10	< 10
TPH-CWG - Aliphatic >C16 - C35	300	ug/l	WHO	0	< 10	< 10	< 10	< 10	< 10	< 10						< 10	< 10
TPH-CWG - Aliphatic >C35 - C44	300	ug/l	WHO	0	< 10	< 10	< 10	< 10	< 10	< 10			< 5	< 5	< 5	< 10	< 10
C5-C35 Aliphatics	N/A	ug/l	-	0	< 10	< 10	< 10	< 10	< 10	< 10						< 10	< 10
TPH-CWG - Aliphatic (C5 - C44)	N/A	ug/l	-	0	< 10	< 10	< 10	< 10	< 10	< 10						< 10	< 10
TPH >C5-C6 Aromatics	10	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1	< 1.0	< 1.0
TPH >C7-C8 Aromatics	700	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1	< 1.0	< 1.0
TPH >C8-C9 Aromatics	300	ug/l	WHO	0							2		< 1	< 1	< 1		
TPH >C9-C10 Aromatics	300	ug/l	WHO	0							< 1		< 1	< 1	< 1		
TPH >C8-C10 Aromatics	300	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0						< 1.0	< 1.0
TPH >C10-C12 Aromatics	90	ug/l	WHO	0	< 10	< 10	< 10	< 10	< 10	< 10						< 10	< 10
TPH >C12-C16 Aromatics	90	ug/l	WHO	0	< 10	< 10	< 10	< 10	< 10	< 10						< 10	< 10
TPH >C16-C21 Aromatics	90	ug/l	WHO	0	< 10	< 10	< 10	< 10	< 10	< 10						< 10	< 10
TPH >C21-C35 Aromatics	90	ug/l	WHO	0	< 10	< 10	< 10	< 10	< 10	< 10						< 10	< 10
TPH >C35-C44 Aromatics	90	ug/l	WHO	0	< 10	< 10	< 10	< 10	< 10	< 10						< 10	< 10

Appendix G

G9 Groundwater Downgradient

Assessment Scenario

Water Abstraction

Lab Sample ID	Screening value	Units	Screening standard	Summary													
				Number of Exceedances	1074201	1096401	1106499	1133262	1163626	1182058	ARP16-LF-BH13	ARP16-LF-BH13	ARP16-LF-BH13	ARP16-LF-BH13	ARP16-LF-BH13	944696	961487
Client Sample No					ARP16-CP-BH12	ARP16-CP-BH12	ARP16-CP-BH12	ARP16-CP-BH12	ARP16-CP-BH12	ARP16-CP-BH12	ARP16-LF-BH13	ARP16-LF-BH13	ARP16-LF-BH13	ARP16-LF-BH13	ARP16-LF-BH13	ARP16-LF-BH13	ARP16-LF-BH13
Client Sample ID					None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	19/01/1900	21/01/1900	22/01/1900	22/01/1900	23/01/1900	None Supplied	None Supplied
Depth to Top					None Supplied	None Supplied	None Supplied	35.00	None Supplied	None Supplied						None Supplied	None Supplied
Depth to Bottom									None Supplied	29.62-40.31						None Supplied	None Supplied
Date Sampled					23/10/2018	21/11/2018	03/12/2018	16/01/2019	25/02/2019	20/03/2019	16/11/16	30/11/16	07/03/17	04/04/17	17/05/17	17/04/2018	15/05/2018
Sample Type					None Supplied	None Supplied	None Supplied	None Supplied									
C5-C35 Aromatics	N/A	ug/l	-	0	< 10	< 10	< 10	< 10	< 10	< 10						< 10	< 10
C5-C35 Aromatics	N/A	ug/l	-	0	< 10	< 10	< 10	< 10	< 10	< 10						< 10	< 10
VOCs																	
Chloromethane	20	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10		< 10	< 10	< 10	< 1.0	< 1.0
Chloroethane	3	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1	< 1.0	< 1.0
Bromomethane	100	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1	< 1.0	< 1.0
Vinyl Chloride	0.5	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1	< 1.0	< 1.0
Trichlorofluoromethane	2.5	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1	< 1.0	< 1.0
1,1-Dichloroethene	7	ug/l	USEPA	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1	< 1.0	< 1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	400	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0					< 1.0	< 1.0	
Cis-1,2 Dichloroethene	50	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1	< 1.0	< 1.0
MTBE	15	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1	< 1.0	< 1.0
1,1 -Dichloroethane	3	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1	< 1.0	< 1.0
2,2-Dichloropropane	40	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1	< 1.0	< 1.0
Trichloromethane	2.5	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1	< 1.0	< 1.0
1,1,1-Trichloroethane	100	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1	< 1.0	< 1.0
1,2-Dichloroethane	3	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2		< 2	< 2	< 2	< 1.0	< 1.0
1,1-Dichloropropene	20	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1	< 1.0	< 1.0
Trans-1,2 Dichloroethene	50	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1	< 1.0	< 1.0
Benzene	1	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1	< 1.0	< 1.0
Tetrachloromethane	3	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1	< 1.0	< 1.0
1,2-Dichloropropane	40	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1	< 1.0	< 1.0
Trichloroethene	10	ug/l	UK DWS	2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1	< 1.0	< 1.0
Dibromomethane	100	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1	< 1.0	< 1.0
Bromodichloromethane	100	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10		< 10	< 10	< 10	< 1.0	< 1.0
Cis-1,3 Dichloropropene	20	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1	< 1.0	< 1.0
Trans-1,3 Dichloropropene	20	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1	< 1.0	< 1.0
Toluene	74	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0					< 1.0	< 1.0	
1,1,2-Trichloroethane	400	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1	< 1.0	< 1.0
1,3-Dichloropropane	40	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1	< 1.0	< 1.0
Dibromochloromethane	100	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 3		< 3	< 3	< 3	< 1.0	< 1.0
Tetrachloroethene	10	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1	< 1.0	< 1.0
1,2-Dibromoethane	0.4	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1	< 1.0	< 1.0
Chlorobenzene	0.4	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane	400	ug/l	USEPA	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1	< 1.0	< 1.0
Ethylbenzene	20	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0					< 1.0	< 1.0	
m,p-Xylenes	30	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1	< 1.0	< 1.0
Styrene	20	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1	< 1.0	< 1.0
Tribromomethane	#####	ug/l	Default	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0					< 1.0	< 1.0	
o-Xylene	30	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	400	ug/l	USEPA	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1	< 1.0	< 1.0
Iso-propylbenzene	1	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1	< 1.0	< 1.0
Bromobenzene	1	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1	< 1.0	< 1.0
Propylbenzene	1	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1	< 1.0	< 1.0
2-Chlorotoluene	700	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1	< 1.0	< 1.0
4-Chlorotoluene	700	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1	< 1.0	< 1.0
1,3,5 Trimethylbenzene	1	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1	< 1.0	< 1.0
tert-Butylbenzene	1	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2		< 2	< 2	< 2	< 1.0	< 1.0
1,2,4 Trimethylbenzene	1	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1	< 1.0	< 1.0
sec-Butylbenzene	1	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1	< 1.0	< 1.0
1,3 Dichlorobenzene	3000	ug/l	USEPA	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0
p-Isopropyltoluene	74	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1	< 1.0	< 1.0
1,2-Dichlorobenzene	1000	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0

Appendix G

G9 Groundwater Downgradient

Assessment Scenario

Water Abstraction

					Summary												
Lab Sample ID	Screening value	Units	Screening standard	Number of Exceedances	1074201	1096401	1106499	1133262	1163626	1182058						944696	961487
Client Sample No					ARP16-CP-BH12	ARP16-CP-BH12	ARP16-CP-BH12	ARP16-CP-BH12	ARP16-CP-BH12	ARP16-CP-BH12	ARP16-LF-BH13	ARP16-LF-BH13	ARP16-LF-BH13	ARP16-LF-BH13	ARP16-LF-BH13	ARP16-LF-BH13	ARP16-LF-BH13
Client Sample ID					None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	19/01/1900	21/01/1900	22/01/1900	22/01/1900	23/01/1900	None Supplied	None Supplied
Depth to Top					None Supplied	None Supplied	None Supplied	35.00	None Supplied	None Supplied						None Supplied	None Supplied
Depth to Bottom									None Supplied	29.62-40.31						None Supplied	None Supplied
Date Sampled					23/10/2018	21/11/2018	03/12/2018	16/01/2019	25/02/2019	20/03/2019	16/11/16	30/11/16	07/03/17	04/04/17	17/05/17	17/04/2018	15/05/2018
Sample Type					None Supplied	None Supplied	None Supplied	None Supplied									
1,4 Dichlorobenzene	300	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0
n-Butylbenzene	1	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	1	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2	< 2	< 2	< 2	< 2	< 1.0	< 1.0
1,2,4-Trichlorobenzene	70	ug/l	USEPA	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 3	< 1	< 3	< 3	< 3	< 1.0	< 1.0
Hexachlorobutadiene	0.6	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0
2,6 Chloronitrotoluene	700	ug/l	WHO	0	< 1	< 1	< 1	< 1	< 1	< 1						< 1	< 1
4,2 Chloronitrotoluene	700	ug/l	WHO	0	< 1	< 1	< 1	< 1	< 1	< 1						< 1	< 1
4,3 Chloronitrotoluene	700	ug/l	WHO	0	< 1	< 1	< 1	< 1	< 1	< 1						< 1	< 1
2,4 Chloronitrotoluene	700	ug/l	WHO	0	< 1	< 1	< 1	< 1	< 1	< 1						< 1	< 1
2,5 Chloronitrotoluene	700	ug/l	WHO	0	< 1	< 1	< 1	< 1	< 1	< 1						< 1	< 1
1,2,3-Trichlorobenzene	0.4	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 3		< 3	< 3	< 3	< 1.0	< 1.0
1,2,3-Trichloropropane	40	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1	< 1.0	< 1.0
1,3,5-Trichlorobenzene	0.4	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0						< 1.0	< 1.0
Bromochloromethane	100	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5		< 5	< 5	< 5	< 1.0	< 1.0
Dichloromethane	20	ug/l	FEQS	0	< 100	< 100	< 100	< 100	< 3.0	< 3.0	< 5		< 5	< 5	< 5	< 100	< 100
Carbon disulphide	#####	ug/l	Default	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1	< 1.0	< 1.0
Dichlorodifluoromethane	20	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1	< 1.0	< 1.0
SVOCS																	
Phenol	7.7	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05		< 1	< 1	< 1	< 1	< 0.05	< 0.05
2-Chlorophenol	50	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05		< 1	< 1	< 1	< 1	< 0.05	< 0.05
Bis(2-chloroethyl)ether	1000	ug/l	USEPA	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05		< 1	< 1	< 1	< 1	< 0.05	< 0.05
Bis(2-chloroisopropyl)ether	1000	ug/l	USEPA	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05		< 1	< 1	< 1	< 1	< 0.05	< 0.05
2-Methylphenol	100	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05		< 1	< 1	< 1	< 1	< 0.05	< 0.05
Hexachloroethane	40	ug/l	USEPA	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05		< 1	< 1	< 1	< 1	< 0.05	< 0.05
Nitrobenzene	1	ug/l	UK DWS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05		< 1	< 1	< 1	< 1	< 0.05	< 0.05
4-Methylphenol	100	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05		< 1	< 1	< 1	< 1	< 0.05	< 0.05
Isophorone	7000	ug/l	USEPA	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05		< 1	< 1	< 1	< 1	< 0.05	< 0.05
2-Nitrophenol	7.7	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05		< 1	< 1	< 1	< 1	< 0.05	< 0.05
2,4-Dimethylphenol	100	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05		< 1	< 1	< 1	< 1	< 0.05	< 0.05
Bis(2-chloroethoxy)methane	#####	ug/l	Default	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05		< 1	< 1	< 1	< 1	< 0.05	< 0.05
2,4-Dichlorophenol	4.2	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05		< 1	< 1	< 1	< 1	< 0.05	< 0.05
4-Chloro-3-methylphenol	40	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05		< 1	< 1	< 1	< 1	< 0.05	< 0.05
2,4,6-trichlorophenol	200	ug/l	WHO	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05		< 1	< 1	< 1	< 1	< 0.05	< 0.05
2,4,5-Trichlorophenol	200	ug/l	WHO	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05		< 1	< 1	< 1	< 1	< 0.05	< 0.05
2-Methylnaphthalene	2	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05		< 1	< 1	< 1	< 1	< 0.05	< 0.05
2-Chloronaphthalene	2	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05		< 1	< 1	< 1	< 1	< 0.05	< 0.05
Dimethylphthalate	800	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05		< 1	< 1	< 1	< 1	< 0.05	< 0.05
2,6-Dinitrotoluene	100	ug/l	USEPA	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05		< 1	< 1	< 1	< 1	< 0.05	< 0.05
2,4-Dinitrotoluene	100	ug/l	USEPA	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05		< 1	< 1	< 1	< 1	< 0.05	< 0.05
Dibenzofuran	2	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05		< 1	< 1	< 1	< 1	< 0.05	< 0.05
Diethyl phthalate	200	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05		< 1	< 1	< 1	< 1	< 0.05	< 0.05
Bromophenyl phenyl ether	#####	ug/l	Default	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05		< 1	< 1	< 1	< 1	< 0.05	< 0.05
Hexachlorobenzene	1	ug/l	USEPA	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 1	< 1		< 0.01		< 0.05	< 0.05
Phenanthrene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01						< 0.01	< 0.01
Carbazole	2	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05		< 1	< 1	< 1	< 1	< 0.05	< 0.05
Di-n-butyl phthalate	8	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05		< 1	< 1	< 1	< 1	< 0.05	< 0.05
Butyl benzyl phthalate	7.5	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05		< 1	< 1	< 1	< 1	< 0.05	< 0.05
PCBs by GC-ECD - WHO 12																	
PCB Congener 77	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020					< 0.001	< 0.020	< 0.020
PCB Congener 81	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020					< 0.001	< 0.020	< 0.020
PCB Congener 105	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020					< 0.001	< 0.020	< 0.020
PCB Congener 114	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020					< 0.001	< 0.020	< 0.020
PCB Congener 118	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020					< 0.002	< 0.020	< 0.020

Appendix G

G9 Groundwater Downgradient

Assessment Scenario

Water Abstraction

					Summary												
Lab Sample ID	Screening value	Units	Screening standard	Number of Exceedances	1074201	1096401	1106499	1133262	1163626	1182058						944696	961487
Client Sample No					ARP16-CP-BH12	ARP16-CP-BH12	ARP16-CP-BH12	ARP16-CP-BH12	ARP16-CP-BH12	ARP16-CP-BH12	ARP16-LF-BH13	ARP16-LF-BH13	ARP16-LF-BH13	ARP16-LF-BH13	ARP16-LF-BH13	ARP16-LF-BH13	ARP16-LF-BH13
Client Sample ID					None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	19/01/1900	21/01/1900	22/01/1900	22/01/1900	23/01/1900	None Supplied	None Supplied
Depth to Top					None Supplied	None Supplied	None Supplied	35.00	None Supplied	None Supplied						None Supplied	None Supplied
Depth to Bottom									None Supplied	29.62-40.31						None Supplied	None Supplied
Date Sampled					23/10/2018	21/11/2018	03/12/2018	16/01/2019	25/02/2019	20/03/2019	16/11/16	30/11/16	07/03/17	04/04/17	17/05/17	17/04/2018	15/05/2018
Sample Type					None Supplied	None Supplied	None Supplied	None Supplied									
PCB Congener 123	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020					< 0.001	< 0.020	< 0.020
PCB Congener 126	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020					< 0.001	< 0.020	< 0.020
PCB Congener 156	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020					< 0.001	< 0.020	< 0.020
PCB Congener 157	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020					< 0.001	< 0.020	< 0.020
PCB Congener 167	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020					< 0.001	< 0.020	< 0.020
PCB Congener 169	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020					< 0.001	< 0.020	< 0.020
PCB Congener 189	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020					< 0.001	< 0.020	< 0.020
PCBs	25	ug/l	FEQS	0	< 0.300	< 0.300	< 0.300	< 0.300	< 0.300	< 0.300						< 0.300	< 0.300
Environmental Forensics																	
PFOS	0.3	ug/l	DWS	1	0.17	0.11	0.26	0.2	0.14	0.28						0.06	0.06
PFOS	0.3	ug/l	DWS	0													
PFOA	0.3	ug/l	DWS	0	0.11	0.08	0.13	0.09	0.14	0.13						< 0.05	< 0.05
Metaldehyde	0.1	ug/l	UK DWS	20	0.1	< 0.1	< 0.1	0.2	< 0.1	< 0.2						0.4	1
Chloronitrotoluenes (sum)	10	ug/l	FEQS	0	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1						< 0.1	< 0.1
Chlorbufam	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10			< 0.1	< 0.1	< 0.1	< 0.10	< 0.10
Chloroxuron	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10			< 0.1	< 0.1	< 0.05	< 0.10	< 0.10
Chlorpropham	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10			< 0.1	< 0.1	< 0.1	< 0.10	< 0.10
Ethiofencarb	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10			< 0.1	< 0.1	< 0.1	< 0.10	< 0.10
Phenmedipham	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10			< 0.1	< 0.1	< 0.1	< 0.10	< 0.10
Propam	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10			< 0.1	< 0.1	< 0.1	< 0.10	< 0.10
Dimefuron	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10			< 0.1	< 0.1	< 0.05	< 0.10	< 0.10
Metoxuron	0.1	ug/l	UK DWS	1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.2			< 0.1	< 0.1	< 0.05	< 0.10	< 0.10
Pencycuron	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10			< 0.1	< 0.1	< 0.05	< 0.10	< 0.10
o,p-Methoxychlor	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01			< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Demeton-s-methyl	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10						< 0.10	< 0.10
Diclofop	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02			< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Fenvalerate	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10			< 0.1	< 0.1	< 0.1	< 0.10	< 0.10
Cyhalothrin	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10			< 0.1	< 0.1	< 0.1	< 0.10	< 0.10
Ametryn	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.1	< 0.1		< 0.1		< 0.10	< 0.10
Atrazine-methoxy	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10			< 0.1	< 0.1	< 0.1	< 0.10	< 0.10
Bromacil	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02		< 0.02	< 0.02	< 0.02	< 0.02
Flamprop	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02			< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Flamprop-isopropyl	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02			< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Prometon	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10			< 0.1	< 0.1	< 0.1	< 0.10	< 0.10
Simetryn	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10			< 0.1	< 0.1	< 0.1	< 0.10	< 0.10
4-Nitrophenol	7.7	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05		< 1	< 1	< 1	< 1	< 1	< 1
Hexachlorocyclopentadiene	50	ug/l	USEPA	0	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1
Perylene	2	ug/l	FEQS	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
n-Nitroso-n-dipropylamine	0.1	ug/l	UK DWS	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Carbamates																	
Pirimicarb	100	ng/l	UK DWS	0	< 20	< 20	< 20	< 20	< 20	< 20					< 0.1	< 0.1	< 0.1
Carbetamide	100	ng/l	UK DWS	0	< 20	< 100.00	< 200.00	< 20	< 20	< 200.00					< 0.1	< 0.1	< 0.1
Phthalates																	
Bis(2-ethylhexyl)phthalate	8	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2.8		< 2	< 2	< 2	< 10	< 1.0	< 1.0
Di-n-octyl phthalate	20	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 10	< 10	< 10	< 10	< 1.0	< 1.0
Total phthalates	N/A	mg/l	-	0													
Glycols																	
Ethylene Glycol	ISSUE	mg/l	Default	0	< 10	< 10	< 10	< 10	< 10	< 10						< 10	< 10
Diethylene Glycol	ISSUE	mg/l	Default	0	< 10	< 10	< 10	< 10	< 10	< 10						< 10	< 10
1,2-Propanediol	ISSUE	mg/l	Default	0	< 10	< 10	< 10	< 10	< 10	< 10						< 10	< 10
Rodenticides																	
Triazine Pesticides																	

Appendix G G9 Groundwater Downgradient

Assessment Scenario

Water Abstraction

					Summary																
Lab Sample ID	Screening value	Units	Screening standard	Number of Exceedances	1074201	1096401	1106499	1133262	1163626	1182058						944696	961487				
Client Sample No					ARP16-CP-BH12	ARP16-CP-BH12	ARP16-CP-BH12	ARP16-CP-BH12	ARP16-CP-BH12	ARP16-CP-BH12	ARP16-LF-BH13	ARP16-LF-BH13	ARP16-LF-BH13	ARP16-LF-BH13	ARP16-LF-BH13	ARP16-LF-BH13	ARP16-LF-BH13	ARP16-LF-BH13	ARP16-LF-BH13	ARP16-LF-BH13	
Client Sample ID					None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth to Top					None Supplied	None Supplied	None Supplied	None Supplied	35.00	None Supplied	None Supplied	19/01/1900	21/01/1900	22/01/1900	22/01/1900	23/01/1900	None Supplied	None Supplied			
Depth to Bottom										None Supplied	29.62-40.31						None Supplied	None Supplied			
Date Sampled					23/10/2018	21/11/2018	03/12/2018	16/01/2019	25/02/2019	20/03/2019	16/11/16	30/11/16	07/03/17	04/04/17	17/05/17	17/04/2018	15/05/2018				
Sample Type					None Supplied	None Supplied	None Supplied	None Supplied													
Chlorpyrifos	0.0001	mg/l	UK DWS	0																	
Pendimethalin	0.0001	mg/l	UK DWS	0																	
Bromoform	0.1	mg/l	WHO	0						< 0.001		< 0.001	< 0.001	< 0.001							
Methane	N/A	ug/l	-	0					< 0.1	< 0.1		2	< 2	3							

Appendix G

G9 Groundwater Downgradient

Assessment Scenario

Water Abstraction

					Summary																
Lab Sample ID	Screening value	Units	Screening standard	Number of Exceedances	980065	999567	1020258	1055395	1102001	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	944698					
Client Sample No					ARP16-LF-BH13	ARP16-LF-BH13	ARP16-LF-BH13	ARP16-LF-BH13	ARP16-LF-BH13	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24		
Client Sample ID					None Supplied	None Supplied	None Supplied	None Supplied	None Supplied											None Supplied	
Depth to Top					None Supplied	19.22-34.52	None Supplied	None Supplied	30.45-50.28	29/01/1900	29/01/1900	29/01/1900	30/01/1900	30/01/1900	30/01/1900	30/01/1900	30/01/1900	30/01/1900	30/01/1900	None Supplied	
Depth to Bottom																					None Supplied
Date Sampled					12/06/2018	10/07/2018	08/08/2018	27/09/2018	26/11/2018	16/11/16	23/11/16	30/11/16	03/02/17	07/03/17	04/04/17	17/05/17	17/04/2018				
Sample Type	None Supplied	0940	None Supplied	None Supplied	1503																
Inorganics																					
General inorganics																					
pH	N/A	pH units	-	0	6.8	7.6	6.8	6.7	6.7								6.8				
Total Cyanide	50	ug/l	UK DWS	0	< 10	< 10	< 10	< 10	< 10	< 5			< 5	< 5	< 5	< 5	< 10				
Complex Cyanides	50	ug/l	UK DWS	0	< 10	< 10	< 10	< 10	< 10	< 5							< 10				
Free Cyanide	50	ug/l	UK DWS	0	< 10	< 10	< 10	< 10	< 10	< 5							< 10				
Thiocyanate as SCN	50	ug/l	UK DWS	0	< 200	< 200	< 200	< 200	< 200								< 200				
Sulphate as SO4	250000	ug/l	UK DWS	0	48800	39000	40600	54800	26200				30000	29000	29000	27000	35300				
Sulphide	250000	ug/l	UK DWS	0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0				< 100	< 100	< 100	< 100	< 5.0				
Chloride	250	mg/l	UK DWS	0	98	44	66	200	56				60.4	44.22	56.46	56	110				
Fluoride	1500	ug/l	UK DWS	0	120	140	140	90	110				< 100	150	140	320	120				
Ammoniacal Nitrogen as N	390	ug/l	UK DWS	22	2400	520	1600	7200	100				< 20	< 20	< 20	< 20	1200				
Nitrate as N	11.3	mg/l	UK DWS	1	6.35	8.9	8.54	1.89	0.4								2.85				
Nitrate as NO3	50	mg/l	UK DWS	2	28.1	39.4	37.8	8.37	1.76				22.15	20.79	9.26	19.46	12.6				
Nitrite as N	160	ug/l	UK DWS	4	27	190	480	45	< 1.0								7.6				
Nitrite as NO2	500	ug/l	UK DWS	4	87	640	1600	150	< 5.0				< 100	< 100	< 100	< 100	25				
Alkalinity	N/A	mg/l	-	0	730	640	650	620	320				340	353	337	298	610				
Chemical Oxygen Demand (COD)	N/A	mg/l	-	0	22	7.8	20	37	< 2.0	< 6							14				
Biological Oxygen Demand (BOD)	N/A	mg/l	-	0	< 1.0	4.8	6.1	I/S	1.5	< 1							< 1.0				
Total Oxidised N (Nitrate/-ite)	11.3	mg/l	UK DWS	2	6.4	9.1	9	1.9	0.4				5	4.7	2.1	4.4	2.9				
Total Suspended Solids	N/A	mg/l	-	0	8	160	360	180	440				814	356	243	437	25				
Hardness - Total	N/A	mg/l	-	0	403	327	390	525	509				423	460	400	495	466				
Bromide	N/A	mg/l	-	0	0.88	0.32	0.55	2	1.2								0.7				
Bromate	0.01	mg/l	UK DWS	0	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002								< 0.002				
Phenols																					
Catechol	7.7	ug/l	FEQS	0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5								< 0.5				
Resorcinol	7.7	ug/l	FEQS	0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10							< 0.5				
Ethylphenol & Dimethylphenol	100	ug/l	FEQS	0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10							< 0.5				
Cresols	100	ug/l	FEQS	0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10							< 0.5				
Naphthols	7.7	ug/l	FEQS	0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5								< 0.5				
Isopropylphenol	7.7	ug/l	FEQS	0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5								< 0.5				
Phenol	7.7	ug/l	FEQS	0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10							< 0.5				
Trimethylphenol	100	ug/l	FEQS	0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5								< 0.5				
Speciated PAHs																					
Naphthalene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 1	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Acenaphthylene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 1	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Acenaphthene	2000	ug/l	USEPA	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 1	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Fluorene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 1	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Phenanthrene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 1	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Anthracene	0.1	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 1	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Fluoranthene	0.0063	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 1	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Pyrene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 1	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Benzo(a)anthracene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 1	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Chrysene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 1	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Benzo(b)fluoranthene	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 1	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Benzo(k)fluoranthene	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 1	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Benzo(a)pyrene	0.01	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 1	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Indeno(1,2,3-cd)pyrene	0.1	ug/l	UK DWS	0	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 1	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.001				
Dibenzo(a,h)anthracene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 1	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Benzo(g,h,i)perylene	0.1	ug/l	UK DWS	0	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 1	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.001				
Heavy metals and metalloids																					

Appendix G

G9 Groundwater Downgradient

Assessment Scenario

Water Abstraction

					Summary																
Lab Sample ID	Screening value	Units	Screening standard	Number of Exceedances	980065	999567	1020258	1055395	1102001	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	944698					
Client Sample No					ARP16-LF-BH13	ARP16-LF-BH13	ARP16-LF-BH13	ARP16-LF-BH13	ARP16-LF-BH13	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24		
Client Sample ID					None Supplied	None Supplied	None Supplied	None Supplied	None Supplied											None Supplied	
Depth to Top					None Supplied	19.22-34.52	None Supplied	None Supplied	30.45-50.28	29/01/1900	29/01/1900	29/01/1900	30/01/1900	30/01/1900	30/01/1900	30/01/1900	30/01/1900	30/01/1900	30/01/1900	None Supplied	
Depth to Bottom																					None Supplied
Date Sampled					12/06/2018	10/07/2018	08/08/2018	27/09/2018	26/11/2018	16/11/16	23/11/16	30/11/16	03/02/17	07/03/17	04/04/17	17/05/17	17/04/2018				
Sample Type	None Supplied	0940	None Supplied	None Supplied	1503																
C5-C35 Aromatics	N/A	ug/l	-	0	< 10	< 10	< 10	< 10	< 10								< 10				
C5-C35 Aromatics	N/A	ug/l	-	0	< 10	< 10	< 10	< 10	< 10								< 10				
VOCs																					
Chloromethane	20	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10				< 10	< 10	< 10	< 1.0				
Chloroethane	3	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1				< 1	< 1	< 1	< 1.0				
Bromomethane	100	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1				< 1	< 1	< 1	< 1.0				
Vinyl Chloride	0.5	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1				< 1	< 1	< 1	< 1.0				
Trichlorofluoromethane	2.5	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1				< 1	< 1	< 1	< 1.0				
1,1-Dichloroethene	7	ug/l	USEPA	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1				< 1	< 1	< 1	< 1.0				
1,1,2-Trichloro-1,2,2-trifluoroethane	400	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0								< 1.0				
Cis-1,2 Dichloroethene	50	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1				< 1	< 1	1	< 1.0				
MTBE	15	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1							< 1.0				
1,1 -Dichloroethane	3	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1				< 1	< 1	< 1	< 1.0				
2,2-Dichloropropane	40	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1				< 1	< 1	< 1	< 1.0				
Trichloromethane	2.5	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1				< 1	< 1	< 1	< 1.0				
1,1,1-Trichloroethane	100	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1				< 1	< 1	< 1	< 1.0				
1,2-Dichloroethane	3	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2				< 2	< 2	< 2	< 1.0				
1,1-Dichloropropene	20	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1				< 1	< 1	< 1	< 1.0				
Trans-1,2 Dichloroethene	50	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1				< 1	< 1	< 1	< 1.0				
Benzene	1	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1				< 1	< 1	< 1	< 1.0				
Tetrachloromethane	3	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1				< 1	< 1	< 1	< 1.0				
1,2-Dichloropropane	40	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1				< 1	< 1	< 1	< 1.0				
Trichloroethene	10	ug/l	UK DWS	2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1			1	1	1	1	< 1.0				
Dibromomethane	100	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1				< 1	< 1	< 1	< 1.0				
Bromodichloromethane	100	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10				< 10	< 10	< 10	< 1.0				
Cis-1,3 Dichloropropene	20	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1				< 1	< 1	< 1	< 1.0				
Trans-1,3 Dichloropropene	20	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1				< 1	< 1	< 1	< 1.0				
Toluene	74	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0								< 1.0				
1,1,2-Trichloroethane	400	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1				< 1	< 1	< 1	< 1.0				
1,3-Dichloropropane	40	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1				< 1	< 1	< 1	< 1.0				
Dibromochloromethane	100	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 3				< 3	< 3	< 3	< 1.0				
Tetrachloroethene	10	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1				< 1	< 1	< 1	< 1.0				
1,2-Dibromoethane	0.4	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1				< 1	< 1	< 1	< 1.0				
Chlorobenzene	0.4	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1				< 1	< 1	< 1	< 1.0				
1,1,1,2-Tetrachloroethane	400	ug/l	USEPA	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1				< 1	< 1	< 1	< 1.0				
Ethylbenzene	20	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0								< 1.0				
m,p-Xylenes	30	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1				< 1	< 1	< 1	< 1.0				
Styrene	20	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1				< 1	< 1	< 1	< 1.0				
Tribromomethane	#####	ug/l	Default	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0								< 1.0				
o-Xylene	30	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1				< 1	< 1	< 1	< 1.0				
1,1,2,2-Tetrachloroethane	400	ug/l	USEPA	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1				< 1	< 1	< 1	< 1.0				
Iso-propylbenzene	1	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1				< 1	< 1	< 1	< 1.0				
Bromobenzene	1	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1				< 1	< 1	< 1	< 1.0				
Propylbenzene	1	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1				< 1	< 1	< 1	< 1.0				
2-Chlorotoluene	700	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1				< 1	< 1	< 1	< 1.0				
4-Chlorotoluene	700	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1				< 1	< 1	< 1	< 1.0				
1,3,5 Trimethylbenzene	1	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1				< 1	< 1	< 1	< 1.0				
tert-Butylbenzene	1	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2				< 2	< 2	< 2	< 1.0				
1,2,4 Trimethylbenzene	1	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1				< 1	< 1	< 1	< 1.0				
sec-Butylbenzene	1	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1				< 1	< 1	< 1	< 1.0				
1,3 Dichlorobenzene	3000	ug/l	USEPA	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1			< 1	< 1	< 1	< 1	< 1.0				
p-Isopropyltoluene	74	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1				< 1	< 1	< 1	< 1.0				
1,2-Dichlorobenzene	1000	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1			< 1	< 1	< 1	< 1	< 1.0				

Appendix G

G9 Groundwater Downgradient

Assessment Scenario

Water Abstraction

					Summary												
Lab Sample ID	Screening value	Units	Screening standard	Number of Exceedances	980065	999567	1020258	1055395	1102001	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	944698	
Client Sample No					ARP16-LF-BH13	ARP16-LF-BH13	ARP16-LF-BH13	ARP16-LF-BH13	ARP16-LF-BH13	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24
Client Sample ID	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	29/01/1900	29/01/1900	29/01/1900	30/01/1900	30/01/1900	30/01/1900	None Supplied	
Depth to Top	None Supplied	19.22-34.52	None Supplied	None Supplied	30.45-50.28											None Supplied	
Depth to Bottom																	
Date Sampled	12/06/2018	10/07/2018	08/08/2018	27/09/2018	26/11/2018	16/11/16	23/11/16	30/11/16	03/02/17	07/03/17	04/04/17	17/05/17	17/04/2018				
Sample Type	None Supplied	0940	None Supplied	None Supplied	1503												
1,4 Dichlorobenzene	300	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1	< 1	< 1	< 1.0
n-Butylbenzene	1	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1			< 1	< 1	< 1	< 1	< 1.0
1,2-Dibromo-3-chloropropane	1	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2			< 2	< 2	< 2	< 2	< 1.0
1,2,4-Trichlorobenzene	70	ug/l	USEPA	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 3		< 1	< 3	< 3	< 3	< 3	< 1.0
Hexachlorobutadiene	0.6	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1	< 1	< 1	< 1.0
2,6 Chloronitrotoluene	700	ug/l	WHO	0	< 1	< 1	< 1	< 1	< 1								< 1
4,2 Chloronitrotoluene	700	ug/l	WHO	0	< 1	< 1	< 1	< 1	< 1								< 1
4,3 Chloronitrotoluene	700	ug/l	WHO	0	< 1	< 1	< 1	< 1	< 1								< 1
2,4 Chloronitrotoluene	700	ug/l	WHO	0	< 1	< 1	< 1	< 1	< 1								< 1
2,5 Chloronitrotoluene	700	ug/l	WHO	0	< 1	< 1	< 1	< 1	< 1								< 1
1,2,3-Trichlorobenzene	0.4	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 3			< 3	< 3	< 3	< 3	< 1.0
1,2,3-Trichloropropane	40	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1			< 1	< 1	< 1	< 1	< 1.0
1,3,5-Trichlorobenzene	0.4	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0								< 1.0
Bromochloromethane	100	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5			< 5	< 5	< 5	< 5	< 1.0
Dichloromethane	20	ug/l	FEQS	0	< 100	< 100	< 100	< 100	< 100	< 5			< 5	< 5	< 5	< 5	< 100
Carbon disulphide	#####	ug/l	Default	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1			< 1	< 1	< 1	< 1	< 1.0
Dichlorodifluoromethane	20	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1			< 1	< 1	< 1	< 1	< 1.0
SVOCs																	
Phenol	7.7	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 0.05
2-Chlorophenol	50	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 0.05
Bis(2-chloroethyl)ether	1000	ug/l	USEPA	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 0.05
Bis(2-chloroisopropyl)ether	1000	ug/l	USEPA	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 0.05
2-Methylphenol	100	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 0.05
Hexachloroethane	40	ug/l	USEPA	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 0.05
Nitrobenzene	1	ug/l	UK DWS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 0.05
4-Methylphenol	100	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 0.05
Isophorone	7000	ug/l	USEPA	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 0.05
2-Nitrophenol	7.7	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 0.05
2,4-Dimethylphenol	100	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 0.05
Bis(2-chloroethoxy)methane	#####	ug/l	Default	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 0.05
2,4-Dichlorophenol	4.2	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 0.05
4-Chloro-3-methylphenol	40	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 0.05
2,4,6-trichlorophenol	200	ug/l	WHO	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 0.05
2,4,5-Trichlorophenol	200	ug/l	WHO	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 0.05
2-Methylnaphthalene	2	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 0.05
2-Chloronaphthalene	2	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 0.05
Dimethylphthalate	800	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 0.05
2,6-Dinitrotoluene	100	ug/l	USEPA	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 0.05
2,4-Dinitrotoluene	100	ug/l	USEPA	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 0.05
Dibenzofuran	2	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 0.05
Diethyl phthalate	200	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 0.05
Bromophenyl phenyl ether	#####	ug/l	Default	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 0.05
Hexachlorobenzene	1	ug/l	USEPA	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 1	< 1		< 1	< 1	< 1	< 0.01	< 0.05
Phenanthrene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01								< 0.01
Carbazole	2	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 0.05
Di-n-butyl phthalate	8	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 0.05
Butyl benzyl phthalate	7.5	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 0.05
PCBs by GC-ECD - WHO 12																	
PCB Congener 77	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020			< 0.001					< 0.020
PCB Congener 81	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020			< 0.001					< 0.020
PCB Congener 105	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020			< 0.001					< 0.020
PCB Congener 114	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020			< 0.001					< 0.020
PCB Congener 118	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020			< 0.002					< 0.020

Appendix G

G9 Groundwater Downgradient

Assessment Scenario

Water Abstraction

					Summary												
Lab Sample ID	Screening value	Units	Screening standard	Number of Exceedances	980065	999567	1020258	1055395	1102001	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	944698	
Client Sample No					ARP16-LF-BH13	ARP16-LF-BH13	ARP16-LF-BH13	ARP16-LF-BH13	ARP16-LF-BH13	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24
Client Sample ID					None Supplied	None Supplied	None Supplied	None Supplied	None Supplied							None Supplied	
Depth to Top					None Supplied	19.22-34.52	None Supplied	None Supplied	30.45-50.28	29/01/1900	29/01/1900	29/01/1900	30/01/1900	30/01/1900	30/01/1900	None Supplied	
Depth to Bottom																None Supplied	
Date Sampled					12/06/2018	10/07/2018	08/08/2018	27/09/2018	26/11/2018	16/11/16	23/11/16	30/11/16	03/02/17	07/03/17	04/04/17	17/05/17	17/04/2018
Sample Type					None Supplied	0940	None Supplied	None Supplied	1503								
PCB Congener 123	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020				< 0.001			< 0.020	
PCB Congener 126	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020				< 0.001			< 0.020	
PCB Congener 156	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020				< 0.001			< 0.020	
PCB Congener 157	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020				< 0.001			< 0.020	
PCB Congener 167	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020				< 0.001			< 0.020	
PCB Congener 169	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020				< 0.001			< 0.020	
PCB Congener 189	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020				< 0.001			< 0.020	
PCBs	25	ug/l	FEQS	0	< 0.300	< 0.300	< 0.300	< 0.300	< 0.300							< 0.300	
Environmental Forensics																	
PFOS	0.3	ug/l	DWS	1	0.09	< 0.05	0.05	0.15	0.12							0.1	
PFOS	0.3	ug/l	DWS	0													
PFOA	0.3	ug/l	DWS	0	0.06	< 0.05	< 0.05	< 0.05	0.11							0.07	
Metaldehyde	0.1	ug/l	UK DWS	20	1	< 0.1	0.2	0.8	< 0.1							0.2	
Chloronitrotoluenes (sum)	10	ug/l	FEQS	0	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1							< 0.1	
Chlorbufam	0.1	ug/l	UK DWS	0	< 0.10		< 0.10	< 0.10	< 0.10		< 1.0					< 0.10	
Chloroxuron	0.1	ug/l	UK DWS	0	< 0.10		< 0.10	< 0.10	< 0.10		< 0.1					< 0.10	
Chlorpropham	0.1	ug/l	UK DWS	0	< 0.10		< 0.10	< 0.10	< 0.10		< 1.0					< 0.10	
Ethiofencarb	0.1	ug/l	UK DWS	0	< 0.10		< 0.10	< 0.10	< 0.10		< 0.1					< 0.10	
Phenmedipham	0.1	ug/l	UK DWS	0	< 0.10		< 0.10	< 0.10	< 0.10		< 0.1					< 0.10	
Proptham	0.1	ug/l	UK DWS	0	< 0.10		< 0.10	< 0.10	< 0.10		< 0.1					< 0.10	
Dimefuron	0.1	ug/l	UK DWS	0	< 0.10		< 0.10	< 0.10	< 0.10		< 0.1					< 0.10	
Metoxuron	0.1	ug/l	UK DWS	1	< 0.10		< 0.10	< 0.10	< 0.10		< 0.1					< 0.10	
Pencycuron	0.1	ug/l	UK DWS	0	< 0.10		< 0.10	< 0.10	< 0.10		< 0.1					< 0.10	
o,p-Methoxychlor	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01		< 0.01					< 0.01	
Demeton-s-methyl	0.1	ug/l	UK DWS	0	< 0.10		< 0.10	< 0.10	< 0.10							< 0.10	
Diclofop	0.1	ug/l	UK DWS	0	< 0.02		< 0.02	< 0.02	< 0.02		< 0.02					< 0.02	
Fenvalerate	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.1					< 0.10	
Cyhalothrin	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.1					< 0.10	
Ametryn	0.1	ug/l	UK DWS	0	< 0.10		< 0.10	< 0.10	< 0.10						< 0.1	< 0.10	
Atrazine-methoxy	0.1	ug/l	UK DWS	0	< 0.10		< 0.10	< 0.10	< 0.10		< 0.1					< 0.10	
Bromacil	0.1	ug/l	UK DWS	0	< 0.02		< 0.02	< 0.02	< 0.02						< 0.02	< 0.02	
Flamprop	0.1	ug/l	UK DWS	0	< 0.02		< 0.02	< 0.02	< 0.02		< 0.02					< 0.02	
Flamprop-isopropyl	0.1	ug/l	UK DWS	0	< 0.02		< 0.02	< 0.02	< 0.02		< 0.02					< 0.02	
Prometon	0.1	ug/l	UK DWS	0	< 0.10		< 0.10	< 0.10	< 0.10		< 0.1					< 0.10	
Simetryn	0.1	ug/l	UK DWS	0	< 0.10		< 0.10	< 0.10	< 0.10		< 0.1					< 0.10	
4-Nitrophenol	7.7	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	
Hexachlorocyclopentadiene	50	ug/l	USEPA	0	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1	< 1	
Perylene	2	ug/l	FEQS	0	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	
n-Nitroso-n-dipropylamine	0.1	ug/l	UK DWS	0	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	
Carbamates																	
Pirimicarb	100	ng/l	UK DWS	0	< 20		< 20	< 20	< 20		< 0.1					< 20	
Carbetamide	100	ng/l	UK DWS	0	< 20		< 20	< 20	< 100.00		< 0.1					< 20	
Phthalates																	
Bis(2-ethylhexyl)phthalate	8	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			< 2	< 2	< 2	< 2	< 10	< 1.0
Di-n-octyl phthalate	20	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			< 10	< 10	< 10	< 10	< 10	< 1.0
Total phthalates	N/A	mg/l	-	0			< 3.5										
Glycols																	
Ethylene Glycol	ISSUE	mg/l	Default	0	< 10	< 10	< 10	< 10	< 10								< 10
Diethylene Glycol	ISSUE	mg/l	Default	0	< 10	< 10	< 10	< 10	< 10								< 10
1,2-Propanediol	ISSUE	mg/l	Default	0	< 10	< 10	< 10	< 10	< 10								< 10
Rodenticides																	
Triazine Pesticides																	

Appendix G G9 Groundwater Downgradient

Assessment Scenario

Water Abstraction

					Summary															
Lab Sample ID	Screening value	Units	Screening standard	Number of Exceedances	980065	999567	1020258	1055395	1102001							944698				
Client Sample No					ARP16-LF-BH13	ARP16-LF-BH13	ARP16-LF-BH13	ARP16-LF-BH13	ARP16-LF-BH13	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	
Client Sample ID					None Supplied	None Supplied	None Supplied	None Supplied	None Supplied											None Supplied
Depth to Top					None Supplied	19.22-34.52	None Supplied	None Supplied	30.45-50.28	29/01/1900	29/01/1900	29/01/1900	30/01/1900	30/01/1900	30/01/1900	30/01/1900	30/01/1900	30/01/1900	30/01/1900	None Supplied
Depth to Bottom																				None Supplied
Date Sampled					12/06/2018	10/07/2018	08/08/2018	27/09/2018	26/11/2018	16/11/16	23/11/16	30/11/16	03/02/17	07/03/17	04/04/17	17/05/17	17/04/2018			
Sample Type	None Supplied	0940	None Supplied	None Supplied	1503															
Chlorpyrifos	0.0001	mg/l	UK DWS	0							< 0.00001									
Pendimethalin	0.0001	mg/l	UK DWS	0							< 0.00001									
Bromoform	0.1	mg/l	WHO	0						< 0.001			< 0.001	< 0.001	< 0.001	< 0.001				
Methane	N/A	ug/l	-	0									7	1	< 2	1				

Appendix G

G9 Groundwater Downgradient

Assessment Scenario

Water Abstraction

				Summary																	
Lab Sample ID	Screening value	Units	Screening standard	Number of Exceedances	961489	979301	997698	1020259	1052137	1074202	1096403	1106500	1133260	1163627	1182059						
Client Sample No					ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH27	ARP16-CP-BH27	
Client Sample ID					None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth to Top					None Supplied	None Supplied	26.96-41.86	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth to Bottom					None Supplied													37.00	None Supplied	None Supplied	10/02/1900
Date Sampled					15/05/2018	11/06/2018	09/07/2018	08/08/2018	24/09/2018	23/10/2018	21/11/2018	03/12/2018	16/01/2019	25/02/2019	20/03/2019	16/11/16	22/11/16				
Sample Type		None Supplied	1320	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied							
Inorganics																					
Organics																					
General inorganics																					
pH	N/A	pH units	-	0	7	6.9	6.8	6.9	6.9	6.8	6.8	6.9	6.9	6.9	7						
Total Cyanide	50	ug/l	UK DWS	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5				
Complex Cyanides	50	ug/l	UK DWS	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5				
Free Cyanide	50	ug/l	UK DWS	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5				
Thiocyanate as SCN	50	ug/l	UK DWS	0	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200					
Sulphate as SO4	250000	ug/l	UK DWS	0	26500	41800	39100	32200	31600	36200	31400	32700	29800	27400	27700						
Sulphide	250000	ug/l	UK DWS	0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0					
Chloride	250	mg/l	UK DWS	0	56	120	120	110	110	120	110	97	110	90	93	93					
Fluoride	1500	ug/l	UK DWS	0	130	130	120	130	87	170	130	140	87	140	150						
Ammoniacal Nitrogen as N	390	ug/l	UK DWS	22	< 15	890	740	640	700	900	700	820	470	530	1000						
Nitrate as N	11.3	mg/l	UK DWS	1	5.14	3.07	3.56	3.69	2.89	2.35	0.11	2.7	2.9	2.96	2.65						
Nitrate as NO3	50	mg/l	UK DWS	2	22.8	13.6	15.8	16.4	12.8	10.4	0.48	12	12.8	13.1	11.7						
Nitrite as N	160	ug/l	UK DWS	4	14	17	17	2.7	7.8	5.9	1.5	1000	5.7	< 1.0	30						
Nitrite as NO2	500	ug/l	UK DWS	4	45	55	56	9	26	19	< 5.0	3300	19	< 5.0	98						
Alkalinity	N/A	mg/l	-	0	560	650	680	640	760	490	380	190	700	370	550						
Chemical Oxygen Demand (COD)	N/A	mg/l	-	0	< 2.0	17	5.8	9.1	16	9.9	3.4	15	12	10	15	< 6					
Biological Oxygen Demand (BOD)	N/A	mg/l	-	0	< 1.0	< 1.0	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	4.8	5	< 1.0	< 1					
Total Oxidised N (Nitrate/ite)	11.3	mg/l	UK DWS	2	5.2	3.1	3.6	3.7	2.9	2.4	< 0.3	3.7	2.9	3	2.7						
Total Suspended Solids	N/A	mg/l	-	0	4	36	64	280	160	120	24	24	13	49	29						
Hardness - Total	N/A	mg/l	-	0	346	477	521	463	419	489	520	613	462	549	542						
Bromide	N/A	mg/l	-	0	0.31	0.74	0.63	0.71	0.79	1.2	0.88	1.3	0.58	0.62	0.71						
Bromate	0.01	mg/l	UK DWS	0	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002						
Phenols																					
Catechol	7.7	ug/l	FEQS	0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5				
Resorcinol	7.7	ug/l	FEQS	0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10				
Ethylphenol & Dimethylphenol	100	ug/l	FEQS	0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10				
Cresols	100	ug/l	FEQS	0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10				
Naphthols	7.7	ug/l	FEQS	0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5				
Isopropylphenol	7.7	ug/l	FEQS	0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5				
Phenol	7.7	ug/l	FEQS	0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10				
Trimethylphenol	100	ug/l	FEQS	0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5				
Speciated PAHs																					
Naphthalene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01			
Acenaphthylene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01			
Acenaphthene	2000	ug/l	USEPA	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01			
Fluorene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01			
Phenanthrene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01			
Anthracene	0.1	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01			
Fluoranthene	0.0063	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01			
Pyrene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01			
Benzo(a)anthracene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01			
Chrysene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01			
Benzo(b)fluoranthene	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01			
Benzo(k)fluoranthene	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01			
Benzo(a)pyrene	0.01	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01			
Indeno(1,2,3-cd)pyrene	0.1	ug/l	UK DWS	0	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001			
Dibenzo(a,h)anthracene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01			
Benzo(g,h,i)perylene	0.1	ug/l	UK DWS	0	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001			
Heavy metals and metalloids																					

Appendix G

G9 Groundwater Downgradient

Assessment Scenario

Water Abstraction

Lab Sample ID	Screening value	Units	Screening standard	Summary																
				Number of Exceedances		961489	979301	997698	1020259	1052137	1074202	1096403	1106500	1133260	1163627	1182059	ARP16-CP-BH27	ARP16-CP-BH27		
Client Sample No						ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH27	ARP16-CP-BH27	
Client Sample ID						None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	
Depth to Top						None Supplied	None Supplied	26.96-41.86	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	37.00	None Supplied	None Supplied	10/02/1900	10/02/1900
Depth to Bottom						None Supplied											None Supplied	30.77-42.11		
Date Sampled						15/05/2018	11/06/2018	09/07/2018	08/08/2018	24/09/2018	23/10/2018	21/11/2018	03/12/2018	16/01/2019	25/02/2019	20/03/2019	16/11/16	22/11/16		
Sample Type							None Supplied	1320	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied						
C5-C35 Aromatics	N/A	ug/l	-	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
C5-C35 Aromatics	N/A	ug/l	-	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
VOCs																				
Chloromethane	20	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	3	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	100	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl Chloride	0.5	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichlorofluoromethane	2.5	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	7	ug/l	USEPA	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	400	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cis-1,2 Dichloroethene	50	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2.1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE	15	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1 -Dichloroethane	3	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2,2-Dichloropropane	40	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloromethane	2.5	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	100	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	3	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2
1,1-Dichloropropene	20	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,2 Dichloroethene	50	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Benzene	1	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloromethane	3	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	40	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	10	ug/l	UK DWS	2	< 1.0	< 1.0	3.4	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	3.1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromomethane	100	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	100	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10
Cis-1,3 Dichloropropene	20	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,3 Dichloropropene	20	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	74	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	400	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichloropropane	40	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromochloromethane	100	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 3
Tetrachloroethene	10	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane	0.4	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	0.4	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane	400	ug/l	USEPA	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	20	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m,p-Xylenes	30	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene	20	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tribromomethane	#####	ug/l	Default	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	30	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	400	ug/l	USEPA	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Iso-propylbenzene	1	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromobenzene	1	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Propylbenzene	1	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2-Chlorotoluene	700	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Chlorotoluene	700	ug/l	WHO	0	< 1.0															

Appendix G

G9 Groundwater Downgradient

Assessment Scenario

Water Abstraction

					Summary																
Lab Sample ID	Screening value	Units	Screening standard	Number of Exceedances	961489	979301	997698	1020259	1052137	1074202	1096403	1106500	1133260	1163627	1182059	ARP16-CP-BH27	ARP16-CP-BH27				
Client Sample No					ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	
Client Sample ID					None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth to Top					None Supplied	None Supplied	26.96-41.86	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth to Bottom					None Supplied																
Date Sampled					15/05/2018	11/06/2018	09/07/2018	08/08/2018	24/09/2018	23/10/2018	21/11/2018	03/12/2018	16/01/2019	25/02/2019	20/03/2019	16/11/16	22/11/16				
Sample Type																					
1,4 Dichlorobenzene	300	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1				
n-Butylbenzene	1	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1				
1,2-Dibromo-3-chloropropane	1	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2				
1,2,4-Trichlorobenzene	70	ug/l	USEPA	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 3				
Hexachlorobutadiene	0.6	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1				
2,6 Chloronitrotoluene	700	ug/l	WHO	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1				
4,2 Chloronitrotoluene	700	ug/l	WHO	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1				
4,3 Chloronitrotoluene	700	ug/l	WHO	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1				
2,4 Chloronitrotoluene	700	ug/l	WHO	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1				
2,5 Chloronitrotoluene	700	ug/l	WHO	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1				
1,2,3-Trichlorobenzene	0.4	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 3				
1,2,3-Trichloropropane	40	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1				
1,3,5-Trichlorobenzene	0.4	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1				
Bromochloromethane	100	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5				
Dichloromethane	20	ug/l	FEQS	0	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 3.0	< 3.0	< 5				
Carbon disulphide	#####	ug/l	Default	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1				
Dichlorodifluoromethane	20	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1				
SVOCS																					
Phenol	7.7	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05				
2-Chlorophenol	50	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05				
Bis(2-chloroethyl)ether	1000	ug/l	USEPA	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05				
Bis(2-chloroisopropyl)ether	1000	ug/l	USEPA	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05				
2-Methylphenol	100	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05				
Hexachloroethane	40	ug/l	USEPA	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05				
Nitrobenzene	1	ug/l	UK DWS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05				
4-Methylphenol	100	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05				
Isophorone	7000	ug/l	USEPA	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05				
2-Nitrophenol	7.7	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05				
2,4-Dimethylphenol	100	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05				
Bis(2-chloroethoxy)methane	#####	ug/l	Default	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05				
2,4-Dichlorophenol	4.2	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05				
4-Chloro-3-methylphenol	40	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05				
2,4,6-trichlorophenol	200	ug/l	WHO	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05				
2,4,5-Trichlorophenol	200	ug/l	WHO	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05				
2-Methylnaphthalene	2	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05				
2-Chloronaphthalene	2	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05				
Dimethylphthalate	800	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05				
2,6-Dinitrotoluene	100	ug/l	USEPA	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05				
2,4-Dinitrotoluene	100	ug/l	USEPA	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05				
Dibenzofuran	2	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05				
Diethyl phthalate	200	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05				
Bromophenyl phenyl ether	#####	ug/l	Default	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05				
Hexachlorobenzene	1	ug/l	USEPA	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 1				
Phenanthrene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Carbazole	2	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05				
Di-n-butyl phthalate	8	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05				
Butyl benzyl phthalate	7.5	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05				
PCBs by GC-ECD - WHO 12																					
PCB Congener 77	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020				
PCB Congener 81	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020				
PCB Congener 105	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020				
PCB Congener 114	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020				
PCB Congener 118	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0														

Appendix G

G9 Groundwater Downgradient

Assessment Scenario

Water Abstraction

					Summary																
Lab Sample ID	Screening value	Units	Screening standard	Number of Exceedances	961489	979301	997698	1020259	1052137	1074202	1096403	1106500	1133260	1163627	1182059	ARP16-CP-BH27	ARP16-CP-BH27				
Client Sample No					ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	
Client Sample ID					None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth to Top					None Supplied	None Supplied	26.96-41.86	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	37.00	None Supplied	None Supplied	10/02/1900	10/02/1900
Depth to Bottom					None Supplied													None Supplied	30.77-42.11		
Date Sampled					15/05/2018	11/06/2018	09/07/2018	08/08/2018	24/09/2018	23/10/2018	21/11/2018	03/12/2018	16/01/2019	25/02/2019	20/03/2019	16/11/16	22/11/16				
Sample Type																					
PCB Congener 123	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020						
PCB Congener 126	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020						
PCB Congener 156	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020						
PCB Congener 157	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020						
PCB Congener 167	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020						
PCB Congener 169	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020						
PCB Congener 189	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020						
PCBs	25	ug/l	FEQS	0	< 0.300	< 0.300	< 0.300	< 0.300	< 0.300	< 0.300	< 0.300	< 0.300	< 0.300	< 0.300	< 0.300						
Environmental Forensics																					
PFOS	0.3	ug/l	DWS	1	0.12	0.1	0.12	0.1	0.14	0.09	0.09	0.11	0.09	0.1	0.07						
PFOA	0.3	ug/l	DWS	0	0.08	0.09	0.1	0.1	0.08	0.08	0.08	0.08	0.06	0.1	0.05						
Metaldehyde	0.1	ug/l	UK DWS	20	0.2	0.6	< 0.1	0.2	0.2	0.3	0.2	< 0.1	0.4	0.2	< 0.2						
Chloronitrotoluenes (sum)	10	ug/l	FEQS	0	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1						
Chlorobufam	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 1.0				
Chloroxuron	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.1				
Chlorpropham	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 1.0				
Ethiofencarb	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.1				
Phenmedipham	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.1				
Propam	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.1				
Dimefuron	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.1				
Metoxuron	0.1	ug/l	UK DWS	1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.2		< 0.1				
Pencycuron	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.1				
o,p-Methoxychlor	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01		< 0.01				
Demeton-s-methyl	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.1				
Diclofop	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02		< 0.02				
Fenvalerate	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.1				
Cyhalothrin	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.1				
Ametryn	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.1				
Atrazine-methoxy	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.1				
Bromacil	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02		< 0.02				
Flamprop	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02	< 0.02	0.04	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02		< 0.02				
Flamprop-isopropyl	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02		< 0.02				
Prometon	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.1				
Simetryn	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.1				
4-Nitrophenol	7.7	ug/l	FEQS	0	< 1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05		< 0.05				
Hexachlorocyclopentadiene	50	ug/l	USEPA	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1				
Perylene	2	ug/l	FEQS	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1				
n-Nitroso-n-dipropylamine	0.1	ug/l	UK DWS	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1				
Carbamates																					
Pirimicarb	100	ng/l	UK DWS	0	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20		< 0.1				
Carbetamide	100	ng/l	UK DWS	0	< 20	< 20	< 20	< 20	< 20	< 20	< 100.00	< 200.00	< 20	< 20	< 200.00		< 0.1				
Phthalates																					
Bis(2-ethylhexyl)phthalate	8	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0				
Di-n-octyl phthalate	20	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0				
Total phthalates	N/A	mg/l	-	0			< 3.5														
Glycols																					
Ethylene Glycol	ISSUE	mg/l	Default	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10		< 10				
Diethylene Glycol	ISSUE	mg/l	Default	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10		< 10				
1,2-Propanediol	ISSUE	mg/l	Default	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10		< 10				
Rodenticides																					
Triazine Pesticides																					

Appendix G

G9 Groundwater Downgradient

Assessment Scenario

Water Abstraction

					Summary																
Lab Sample ID	Screening value	Units	Screening standard	Number of Exceedances	961489	979301	997698	1020259	1052137	1074202	1096403	1106500	1133260	1163627	1182059	ARP16-CP-BH27	ARP16-CP-BH27				
Client Sample No					ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24			
Client Sample ID					None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth to Top					None Supplied	None Supplied	26.96-41.86	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth to Bottom					None Supplied													37.00	None Supplied	None Supplied	None Supplied
Date Sampled					15/05/2018	11/06/2018	09/07/2018	08/08/2018	24/09/2018	23/10/2018	21/11/2018	03/12/2018	16/01/2019	25/02/2019	20/03/2019	16/11/16	22/11/16				
Sample Type		None Supplied	1320	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied							
Atrazine	0.1	ug/l	UK DWS	18	< 0.05	0.07		0.05	0.06	0.09	0.07	0.05	0.06	0.06	0.07		< 0.1				
Simazine	0.1	ug/l	UK DWS	0	< 0.05	< 0.05		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05		< 0.1				
Prometryn	0.1	ug/l	UK DWS	0	< 0.05	< 0.05		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05		< 0.1				
Propazine	0.1	ug/l	UK DWS	0	< 0.05	< 0.05		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05		< 0.1				
Terbutylazine	0.1	ug/l	UK DWS	0	< 0.05	< 0.05		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05		< 0.1				
Terbutryn	0.1	ug/l	UK DWS	0	< 0.05	< 0.05		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05		< 0.1				
Acid herbicides esters																					
2,4-D Methyl Ester	0.1	ug/l	UK DWS	0	< 0.02	< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02		< 0.1				
2,4-D butyl ester	0.1	ug/l	UK DWS	0	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.1				
2,4-D ethyl ester	0.1	ug/l	UK DWS	0	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.1				
2,4-D isobutyl ester	0.1	ug/l	UK DWS	0	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.1				
2,4-D isopropyl ester	0.1	ug/l	UK DWS	0	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.1				
Acid Herbicides																					
2,3,6-TBA	0.1	ug/l	UK DWS	0	< 0.02	< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02		< 0.02				
Benazolin	0.1	ug/l	UK DWS	0	< 0.02	< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02		< 0.02				
Bromoxynil	0.1	ug/l	UK DWS	0	< 0.02	< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02		< 0.02				
Clopyralid	0.1	ug/l	UK DWS	0	< 0.02	< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.20	< 0.20	< 0.02		< 0.02				
Ioxynil	0.1	ug/l	UK DWS	0	< 0.02	< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02		< 0.02				
2,4,5-T	0.1	ug/l	UK DWS	0	< 0.02	< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02		< 0.02				
2,4,5-TP	0.1	ug/l	UK DWS	0	< 0.02	< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02		< 0.02				
2,4-D	0.1	ug/l	UK DWS	1	< 0.02	< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02		< 0.02				
2,4-DB	0.1	ug/l	UK DWS	0	< 0.02	< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.02	< 0.02	< 0.02		< 0.02				
Dicamba	0.1	ug/l	UK DWS	1	< 0.02	< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	0.060	< 0.02	< 0.02	0.120		< 0.02				
Dichlorprop	0.1	ug/l	UK DWS	0	< 0.02	< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02		< 0.02				
MCPA	0.1	ug/l	UK DWS	0	< 0.02	< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02		< 0.02				
MCPB	0.1	ug/l	UK DWS	0	< 0.02	< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02		< 0.02				
Mecoprop	0.1	ug/l	UK DWS	15	< 0.02	0.15		0.05	0.15	0.21	0.14	0.14	0.11	0.1	0.14		< 0.02				
Picloram	0.1	ug/l	UK DWS	0	< 0.02	< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02		< 0.02				
4-Chlorophenoxyacetic acid	0.1	ug/l	UK DWS	0	< 0.02	< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02		< 0.02				
Organochlorine Pesticides																					
Aldrin	0.03	ug/l	UK DWS	0	< 0.01	< 0.01		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01		< 0.01				
alpha-HCH (alpha-BHC)	0.1	ug/l	UK DWS	0	< 0.01	< 0.01		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01		< 0.01				
beta-HCH (beta-BHC)	0.1	ug/l	UK DWS	0	< 0.01	< 0.01		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01		< 0.01				
delta-HCH (delta-BHC)	0.1	ug/l	UK DWS	0	< 0.01	< 0.01		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01		< 0.01				
Dieldrin	0.03	ug/l	UK DWS	0	< 0.01	< 0.01		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01		< 0.01				
Endosulfan	0.1	ug/l	UK DWS	0	< 0.01	< 0.01		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01		< 0.01				
Endosulfan Sulphate	0.1	ug/l	UK DWS	0	< 0.01	< 0.01		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01		< 0.01				
Endrin	0.1	ug/l	UK DWS	0	< 0.01	< 0.01		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01		< 0.01				
gamma-HCH (gamma-BHC)	0.1	ug/l	UK DWS	0	< 0.01	< 0.01		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01		< 0.01				
Heptachlor	0.03	ug/l	UK DWS	0	< 0.01	< 0.01		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01		< 0.01				
Heptachlor Epoxide	0.03	ug/l	UK DWS	0	< 0.01	< 0.01		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01		< 0.01				
Isodrin	0.1	ug/l	UK DWS	0	< 0.01	< 0.01		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01		< 0.01				
Methoxychlor	0.1	ug/l	UK DWS	0	< 0.01	< 0.01		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01		< 0.01				
o,p-DDE	0.1	ug/l	UK DWS	0	< 0.01	< 0.01		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01		< 0.01				
DDT	0.1	ug/l	UK DWS	0	< 0.01	< 0.01		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01		< 0.01				
o,p-TDE (o,p-DDD)	0.1	ug/l	UK DWS	0	< 0.01	< 0.01		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01		< 0.01				
p,p-DDE	0.1	ug/l	UK DWS	0	< 0.01	< 0.01		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01		< 0.01				
DDT	0.1	ug/l	UK DWS	0	< 0.01	< 0.01		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01		< 0.01				
p,p-TDE (o,p-DDD)	0.1	ug/l	UK DWS	0	< 0.01	< 0.01		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01		< 0.01				
Trifluralin	0.1	ug/l	UK DWS	0	< 0.01	< 0.01		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01		< 0.01				
Organonitrogen pesticides																					
Bentazone	0.1	ug/l	UK DWS	1	< 0.02	< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02		< 0.02				

Appendix G G9 Groundwater Downgradient

Assessment Scenario

Water Abstraction

					Summary																
Lab Sample ID	Screening value	Units	Screening standard	Number of Exceedances	961489	979301	997698	1020259	1052137	1074202	1096403	1106500	1133260	1163627	1182059						
Client Sample No					ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH24	ARP16-CP-BH27	ARP16-CP-BH27	
Client Sample ID					None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth to Top					None Supplied	None Supplied	26.96-41.86	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	37.00	None Supplied	None Supplied	10/02/1900	10/02/1900
Depth to Bottom					None Supplied													None Supplied	30.77-42.11		
Date Sampled					15/05/2018	11/06/2018	09/07/2018	08/08/2018	24/09/2018	23/10/2018	21/11/2018	03/12/2018	16/01/2019	25/02/2019	20/03/2019	16/11/16	22/11/16				
Sample Type		None Supplied	1320	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied										
Chlorpyrifos	0.0001	mg/l	UK DWS	0													< 0.00001				
Pendimethalin	0.0001	mg/l	UK DWS	0													< 0.00001				
Bromoform	0.1	mg/l	WHO	0													< 0.001				
Methane	N/A	ug/l	-	0										< 0.1	< 0.1						

Appendix G

G9 Groundwater Downgradient

Assessment Scenario

Water Abstraction

				Summary																		
Lab Sample ID	Screening value	Units	Screening standard	Number of Exceedances	ARP16-CP-BH27	ARP16-CP-BH27	ARP16-CP-BH27	ARP16-CP-BH27	ARP16-CP-BH27	951127	962361	980066	999561	1020260	1053168	1075120	1099108					
Client Sample No					ARP16-CP-BH27	ARP16-CP-BH27	ARP16-CP-BH27	ARP16-CP-BH27	ARP16-CP-BH27	ARP16-CP-BH27	ARP16-CP-BH27	ARP16-CP-BH27	ARP16-CP-BH27	ARP16-CP-BH27	ARP16-CP-BH27	ARP16-CP-BH27	ARP16-CP-BH27	ARP16-CP-BH27	ARP16-CP-BH27	ARP16-CP-BH27	ARP16-CP-BH27	
Client Sample ID					None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth to Top					10/02/1900	12/02/1900	11/02/1900	11/02/1900	12/02/1900	None Supplied	None Supplied	None Supplied	39.22-53.57	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	5.00-5.00
Depth to Bottom					None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled					30/11/16	03/02/17	07/03/17	04/04/17	17/05/17	26/04/2018	16/05/2018	12/06/2018	11/07/2018	09/08/2018	25/09/2018	24/10/2018	22/11/2018	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Sample Type	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	0900	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied				
Inorganics																						
Organics																						
General inorganics																						
pH	N/A	pH units	-	0						7.3	7.3	7.4	7.3	7.3	7.3	7.3	7.3	7.3				
Total Cyanide	50	ug/l	UK DWS	0	< 5	< 5	< 5	< 5	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10				
Complex Cyanides	50	ug/l	UK DWS	0					< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10				
Free Cyanide	50	ug/l	UK DWS	0					< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10				
Thiocyanate as SCN	50	ug/l	UK DWS	0					< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200				
Sulphate as SO4	250000	ug/l	UK DWS	0	30000	29000	29000	27000	26300	18000	28500	26400	24700	28000	30500	22500						
Sulphide	250000	ug/l	UK DWS	0	< 100	< 100	< 100	< 100	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0				
Chloride	250	mg/l	UK DWS	0	25.99	28.41	25.48	25	25	24	23	24	30	25	21	25	25	25				
Fluoride	1500	ug/l	UK DWS	0	100	170	160	320	160	210	170	180	150	260	310	220						
Ammoniacal Nitrogen as N	390	ug/l	UK DWS	22	< 20	< 20	< 20	< 20	150	< 15	57	36	< 15	< 15	37	79						
Nitrate as N	11.3	mg/l	UK DWS	1					9.41	9.67	8.53	9.38	9.89	9.71	8.99	9.34						
Nitrate as NO3	50	mg/l	UK DWS	2	47.8	39.56	24.78	39.29	41.7	42.8	37.8	41.6	43.8	43	39.8	41.4						
Nitrite as N	160	ug/l	UK DWS	4					< 1.0	18	5.7	2.3	2	14	91	6.1						
Nitrite as NO2	500	ug/l	UK DWS	4	< 100	< 100	< 100	< 100	< 5.0	59	19	7.6	6.5	47	300	20						
Alkalinity	N/A	mg/l	-	0	236	255	210	211	410	420	400	420	420	470	380	130						
Chemical Oxygen Demand (COD)	N/A	mg/l	-	0					< 2.0	5.2	5.3	< 2.0	4	22	8.1	17						
Biological Oxygen Demand (BOD)	N/A	mg/l	-	0					1.2	< 1.0	1.2	1.2	1.5	1.3	1.2	1.6						
Total Oxidised N (Nitrate/-ite)	11.3	mg/l	UK DWS	2	10.8	8.9	5.6	8.9	9.4	9.7	8.5	9.4	9.9	9.7	9.1	9.3						
Total Suspended Solids	N/A	mg/l	-	0	837	6807	605	632	110	400	150	350	1800	920	870	320						
Hardness - Total	N/A	mg/l	-	0	291	338	317	334	291	256	273	230	278	300	316	252						
Bromide	N/A	mg/l	-	0					0.073	0.062	0.075	0.074	0.083	0.079	0.076	0.07						
Bromate	0.01	mg/l	UK DWS	0					< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002				
Phenols																						
Catechol	7.7	ug/l	FEQS	0					< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5				
Resorcinol	7.7	ug/l	FEQS	0					< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5				
Ethylphenol & Dimethylphenol	100	ug/l	FEQS	0					< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5				
Cresols	100	ug/l	FEQS	0					< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5				
Naphthols	7.7	ug/l	FEQS	0					< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5				
Isopropylphenol	7.7	ug/l	FEQS	0					< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5				
Phenol	7.7	ug/l	FEQS	0					< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5				
Trimethylphenol	100	ug/l	FEQS	0					< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5				
Speciated PAHs																						
Naphthalene	2	ug/l	FEQS	0	< 1	< 0.01	< 0.01	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Acenaphthylene	2	ug/l	FEQS	0	< 1	< 0.01	< 0.01	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Acenaphthene	2000	ug/l	USEPA	0	< 1	< 0.01	< 0.01	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Fluorene	2	ug/l	FEQS	0	< 1	< 0.01	< 0.01	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Phenanthrene	2	ug/l	FEQS	0	< 1	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Anthracene	0.1	ug/l	FEQS	0	< 1	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Fluoranthene	0.0063	ug/l	FEQS	0	< 1	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Pyrene	2	ug/l	FEQS	0	< 1	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Benzo(a)anthracene	2	ug/l	FEQS	0	< 1	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Chrysene	2	ug/l	FEQS	0	< 1	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Benzo(b)fluoranthene	0.1	ug/l	UK DWS	0	< 1	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Benzo(k)fluoranthene	0.1	ug/l	UK DWS	0	< 1	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Benzo(a)pyrene	0.01	ug/l	UK DWS	0	< 1	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Indeno(1,2,3-cd)pyrene	0.1	ug/l	UK DWS	0	< 1	< 0.01	< 0.01	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001				
Dibenzo(a,h)anthracene	2	ug/l	FEQS	0	< 1	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Benzo(g,h,i)perylene	0.1	ug/l	UK DWS	0	< 1	< 0.01	< 0.01	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001				
Heavy metals and metalloids																						

Appendix G

G9 Groundwater Downgradient

Assessment Scenario

Water Abstraction

					Summary																
Lab Sample ID	Screening value	Units	Screening standard	Number of Exceedances	ARP16-CP-BH27	ARP16-CP-BH27	ARP16-CP-BH27	ARP16-CP-BH27	ARP16-CP-BH27	951127	962361	980066	999561	1020260	1053168	1075120	1099108				
Client Sample No					ARP16-CP-BH27	ARP16-CP-BH27	ARP16-CP-BH27	ARP16-CP-BH27	ARP16-CP-BH27	ARP16-CP-BH27	ARP16-CP-BH27	ARP16-CP-BH27	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Client Sample ID					10/02/1900	12/02/1900	11/02/1900	11/02/1900	12/02/1900	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth to Top					None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth to Bottom					None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled					30/11/16	03/02/17	07/03/17	04/04/17	17/05/17	26/04/2018	16/05/2018	12/06/2018	11/07/2018	09/08/2018	25/09/2018	24/10/2018	22/11/2018	None Supplied	None Supplied	None Supplied	None Supplied
Sample Type	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied				
PCB Congener 123	25	ug/l	FEQS	0	< 0.001					< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020				
PCB Congener 126	25	ug/l	FEQS	0	< 0.001					< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020				
PCB Congener 156	25	ug/l	FEQS	0	< 0.001					< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020				
PCB Congener 157	25	ug/l	FEQS	0	< 0.001					< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020				
PCB Congener 167	25	ug/l	FEQS	0	< 0.001					< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020				
PCB Congener 169	25	ug/l	FEQS	0	< 0.001					< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020				
PCB Congener 189	25	ug/l	FEQS	0	< 0.001					< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020				
PCBs	25	ug/l	FEQS	0						< 0.300	< 0.300	< 0.300	< 0.300	< 0.300	< 0.300	< 0.300	< 0.300				
Environmental Forensics																					
PFOS	0.3	ug/l	DWS	1						< 0.05	< 0.05	0.06	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05				
PFOS	0.3	ug/l	DWS	0																	
PFOA	0.3	ug/l	DWS	0						< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05				
Metaldehyde	0.1	ug/l	UK DWS	20						< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1				
Chloronitrotoluenes (sum)	10	ug/l	FEQS	0						< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1				
Chlorbufam	0.1	ug/l	UK DWS	0						< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10				
Chloroxuron	0.1	ug/l	UK DWS	0						< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10				
Chlorpropham	0.1	ug/l	UK DWS	0						< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10				
Ethiofencarb	0.1	ug/l	UK DWS	0						< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10				
Phenmedipham	0.1	ug/l	UK DWS	0						< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10				
Propham	0.1	ug/l	UK DWS	0						< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10				
Dimefuron	0.1	ug/l	UK DWS	0						< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10				
Metoxuron	0.1	ug/l	UK DWS	1						< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10				
Pencycuron	0.1	ug/l	UK DWS	0						< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10				
o,p-Methoxychlor	0.1	ug/l	UK DWS	0						< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Demeton-s-methyl	0.1	ug/l	UK DWS	0						< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10				
Diclofop	0.1	ug/l	UK DWS	0						< 0.02	< 0.02	< 0.02		< 0.02	< 0.02	< 0.02	< 0.02				
Fenvalerate	0.1	ug/l	UK DWS	0						< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10				
Cyhalothrin	0.1	ug/l	UK DWS	0						< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10				
Ametryn	0.1	ug/l	UK DWS	0				< 0.1		< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10				
Atrazine-methoxy	0.1	ug/l	UK DWS	0						< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10				
Bromacil	0.1	ug/l	UK DWS	0				< 0.02		< 0.02	< 0.02	< 0.02		< 0.02	< 0.02	< 0.02	< 0.02				
Flamprop	0.1	ug/l	UK DWS	0						< 0.02	< 0.02	< 0.02		< 0.02	< 0.02	< 0.02	< 0.02				
Flamprop-isopropyl	0.1	ug/l	UK DWS	0						< 0.02	< 0.02	< 0.02		< 0.02	< 0.02	< 0.02	< 0.02				
Prometon	0.1	ug/l	UK DWS	0						< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10				
Simetryn	0.1	ug/l	UK DWS	0						< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10				
4-Nitrophenol	7.7	ug/l	FEQS	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05				
Hexachlorocyclopentadiene	50	ug/l	USEPA	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1				
Perylene	2	ug/l	FEQS	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1				
n-Nitroso-n-dipropylamine	0.1	ug/l	UK DWS	0		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1				
Carbamates																					
Pirimicarb	100	ng/l	UK DWS	0						< 20	< 20	< 20		< 20	< 20	< 20	< 20				
Carbetamide	100	ng/l	UK DWS	0						< 20	< 20	< 20		< 20	< 20	< 20	< 100.00				
Phthalates																					
Bis(2-ethylhexyl)phthalate	8	ug/l	WHO	0	< 2	< 2	< 2	< 2	< 10	< 1.0	5.9	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0				
Di-n-octyl phthalate	20	ug/l	FEQS	0	< 10	< 10	< 10	< 10	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0				
Total phthalates	N/A	mg/l	-	0										< 3.5							
Glycols																					
Ethylene Glycol	ISSUE	mg/l	Default	0						< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10				
Diethylene Glycol	ISSUE	mg/l	Default	0						< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10				
1,2-Propanediol	ISSUE	mg/l	Default	0						< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10				
Rodenticides																					
Triazine Pesticides																					

Appendix G

G9 Groundwater Downgradient

Assessment Scenario

Water Abstraction

					Summary																	
Lab Sample ID	Screening value	Units	Screening standard	Number of Exceedances	ARP16-CP-BH27	ARP16-CP-BH27	ARP16-CP-BH27	ARP16-CP-BH27	ARP16-CP-BH27	951127	962361	980066	999561	1020260	1053168	1075120	1099108					
Client Sample No					ARP16-CP-BH27	ARP16-CP-BH27	ARP16-CP-BH27	ARP16-CP-BH27	ARP16-CP-BH27	ARP16-CP-BH27	ARP16-CP-BH27	ARP16-CP-BH27	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	
Client Sample ID					10/02/1900	12/02/1900	11/02/1900	11/02/1900	12/02/1900	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth to Top					None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth to Bottom					None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled					30/11/16	03/02/17	07/03/17	04/04/17	17/05/17	26/04/2018	16/05/2018	12/06/2018	11/07/2018	09/08/2018	25/09/2018	24/10/2018	22/11/2018					
Sample Type									None Supplied	None Supplied	None Supplied	0900	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied				
Atrazine	0.1	ug/l	UK DWS	18						< 0.05	< 0.05	< 0.05		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05				
Simazine	0.1	ug/l	UK DWS	0						< 0.05	< 0.05	< 0.05		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05				
Prometryn	0.1	ug/l	UK DWS	0						< 0.05	< 0.05	< 0.05		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05				
Propazine	0.1	ug/l	UK DWS	0						< 0.05	< 0.05	< 0.05		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05				
Terbutylazine	0.1	ug/l	UK DWS	0						< 0.05	< 0.05	< 0.05		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05				
Terbutryn	0.1	ug/l	UK DWS	0						< 0.05	< 0.05	< 0.05		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05				
Acid herbicides esters																						
2,4-D Methyl Ester	0.1	ug/l	UK DWS	0						< 0.02	< 0.02	< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02				
2,4-D butyl ester	0.1	ug/l	UK DWS	0						< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10				
2,4-D ethyl ester	0.1	ug/l	UK DWS	0						< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10				
2,4-D isobutyl ester	0.1	ug/l	UK DWS	0						< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10				
2,4-D isopropyl ester	0.1	ug/l	UK DWS	0						< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10				
Acid Herbicides																						
2,3,6-TBA	0.1	ug/l	UK DWS	0						< 0.02	< 0.02	< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02				
Benazolin	0.1	ug/l	UK DWS	0						< 0.02	< 0.02	< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02				
Bromoxynil	0.1	ug/l	UK DWS	0						< 0.02	< 0.02	< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02				
Clopyralid	0.1	ug/l	UK DWS	0						< 0.02	< 0.02	< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02				
Ioxynil	0.1	ug/l	UK DWS	0						< 0.02	< 0.02	< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02				
2,4,5-T	0.1	ug/l	UK DWS	0						< 0.02	< 0.02	< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02				
2,4,5-TP	0.1	ug/l	UK DWS	0						< 0.02	< 0.02	< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02				
2,4-D	0.1	ug/l	UK DWS	1						< 0.02	< 0.02	< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02				
2,4-DB	0.1	ug/l	UK DWS	0						< 0.02	< 0.02	< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02				
Dicamba	0.1	ug/l	UK DWS	1						< 0.02	< 0.02	< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02				
Dichlorprop	0.1	ug/l	UK DWS	0						< 0.02	< 0.02	< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02				
MCPA	0.1	ug/l	UK DWS	0						< 0.02	< 0.02	< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02				
MCPB	0.1	ug/l	UK DWS	0						< 0.02	< 0.02	< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02				
Mecoprop	0.1	ug/l	UK DWS	15						< 0.02	< 0.02	< 0.02		0.12	< 0.02	< 0.02	< 0.02	< 0.02				
Picloram	0.1	ug/l	UK DWS	0						< 0.02	< 0.02	< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02				
4-Chlorophenoxyacetic acid	0.1	ug/l	UK DWS	0						< 0.02	< 0.02	< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02				
Organochlorine Pesticides																						
Aldrin	0.03	ug/l	UK DWS	0						< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
alpha-HCH (alpha-BHC)	0.1	ug/l	UK DWS	0						< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
beta-HCH (beta-BHC)	0.1	ug/l	UK DWS	0						< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
delta-HCH (delta-BHC)	0.1	ug/l	UK DWS	0						< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Dieldrin	0.03	ug/l	UK DWS	0						< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Endosulfan	0.1	ug/l	UK DWS	0						< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Endosulfan	0.1	ug/l	UK DWS	0						< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Endosulfan Sulphate	0.1	ug/l	UK DWS	0						< 0.01	< 0.01	< 0.01		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Endrin	0.1	ug/l	UK DWS	0						< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
gamma-HCH (gamma-BHC)	0.1	ug/l	UK DWS	0						< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Heptachlor	0.03	ug/l	UK DWS	0						< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Heptachlor Epoxide	0.03	ug/l	UK DWS	0						< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Isodrin	0.1	ug/l	UK DWS	0						< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Methoxychlor	0.1	ug/l	UK DWS	0						< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
o,p-DDE	0.1	ug/l	UK DWS	0						< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
DDT	0.1	ug/l	UK DWS	0						< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
o,p-TDE (o,p-DDD)	0.1	ug/l	UK DWS	0						< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
p,p-DDE	0.1	ug/l	UK DWS	0						< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
DDT	0.1	ug/l	UK DWS	0						< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
p,p-TDE (o,p-DDD)	0.1	ug/l	UK DWS	0						< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Trifluralin	0.1	ug/l	UK DWS	0						< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Organonitrogen pesticides																						
Bentazone	0.1	ug/l	UK DWS	1						< 0.02	< 0.02	< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02				

Appendix G

G9 Groundwater Downgradient

Assessment Scenario

Water Abstraction

					Summary																
Lab Sample ID	Screening value	Units	Screening standard	Number of Exceedances	1107475	1134169	1160660	1180863	ARP16-CP-BH27	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	951128	962362			
Client Sample No					ARP16-CP-BH27	ARP16-CP-BH27	ARP16-CP-BH27	ARP16-CP-BH27	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	
Client Sample ID					None Supplied	None Supplied														None Supplied	None Supplied
Depth to Top					None Supplied	4.90	None Supplied	None Supplied	02/02/1900	02/02/1900	02/02/1900	03/02/1900	03/02/1900	03/02/1900	03/02/1900	03/02/1900	03/02/1900	03/02/1900	03/02/1900	None Supplied	None Supplied
Depth to Bottom							None Supplied	43.33-54.18												None Supplied	None Supplied
Date Sampled					04/12/2018	17/01/2019	20/02/2019	19/03/2019	16/11/16	22/11/16	30/11/16	03/02/17	07/03/17	04/04/17	17/05/17	26/04/2018	16/05/2018				
Sample Type	None Supplied	None Supplied														None Supplied					
Inorganics																					
General inorganics																					
pH	N/A	pH units	-	0	7.3	7.3	7.3	7.4									7.3	7.2			
Total Cyanide	50	ug/l	UK DWS	0	< 10	< 10	< 10	< 10	< 5				< 5	< 5	< 5	< 5	< 10	< 10			
Complex Cyanides	50	ug/l	UK DWS	0	< 10	< 10	< 10	< 10	< 5								< 10	< 10			
Free Cyanide	50	ug/l	UK DWS	0	< 10	< 10	< 10	< 10	< 5								< 10	< 10			
Thiocyanate as SCN	50	ug/l	UK DWS	0	< 200	< 200	< 200	< 200									< 200	< 200			
Sulphate as SO4	250000	ug/l	UK DWS	0	25400	25500	26400	27100				10000	10000	11000	9000	17500	12600				
Sulphide	250000	ug/l	UK DWS	0	< 5.0	< 5.0	< 5.0	< 5.0				< 100	< 100	< 100	< 100	< 5.0	< 5.0				
Chloride	250	mg/l	UK DWS	0	23	23	24	23				22.19	20.96	22.47	22	27	24				
Fluoride	1500	ug/l	UK DWS	0	270	180	360	200				110	180	160	290	160	170				
Ammoniacal Nitrogen as N	390	ug/l	UK DWS	22	110	100	< 15	27				< 20	< 20	40	20	120	66				
Nitrate as N	11.3	mg/l	UK DWS	1	9.23	9.81	9.36	9.64								9.27	9.88				
Nitrate as NO3	50	mg/l	UK DWS	2	40.9	43.5	41.5	42.7				32.43	28.87	22.77	30.43	41	43.7				
Nitrite as N	160	ug/l	UK DWS	4	26	23	18	20								< 1.0	28				
Nitrite as NO2	500	ug/l	UK DWS	4	85	74	59	66				< 100	< 100	< 100	< 100	< 5.0	93				
Alkalinity	N/A	mg/l	-	0	200	320	390	350				275	291	244	240	450	450				
Chemical Oxygen Demand (COD)	N/A	mg/l	-	0	17	11	< 2.0	34	< 6							< 2.0	5.2				
Biological Oxygen Demand (BOD)	N/A	mg/l	-	0	< 1.0	1.5	< 1.0	< 1.0	< 1							< 1.0	< 1.0				
Total Oxidised N (Nitrate/-ite)	11.3	mg/l	UK DWS	2	9.3	9.8	9.4	9.7				7.3	6.5	5.2	6.9	9.3	9.9				
Total Suspended Solids	N/A	mg/l	-	0	790	15	1800	520				8943	198	7530	1896	43	540				
Hardness - Total	N/A	mg/l	-	0	266	284	340	312				317	339	332	335	305	251				
Bromide	N/A	mg/l	-	0	0.14	0.058	0.067	0.065								0.086	0.069				
Bromate	0.01	mg/l	UK DWS	0	< 0.002	< 0.002	< 0.002	< 0.002								< 0.002	< 0.002				
Phenols																					
Catechol	7.7	ug/l	FEQS	0	< 0.5	< 0.5	< 0.5	< 0.5									< 0.5	< 0.5			
Resorcinol	7.7	ug/l	FEQS	0	< 0.5	< 0.5	< 0.5	< 0.5	< 10								< 0.5	< 0.5			
Ethylphenol & Dimethylphenol	100	ug/l	FEQS	0	< 0.5	< 0.5	< 0.5	< 0.5	< 10								< 0.5	< 0.5			
Cresols	100	ug/l	FEQS	0	< 0.5	< 0.5	< 0.5	< 0.5	< 10								< 0.5	< 0.5			
Naphthols	7.7	ug/l	FEQS	0	< 0.5	< 0.5	< 0.5	< 0.5	< 10								< 0.5	< 0.5			
Isopropylphenol	7.7	ug/l	FEQS	0	< 0.5	< 0.5	< 0.5	< 0.5	< 10								< 0.5	< 0.5			
Phenol	7.7	ug/l	FEQS	0	< 0.5	< 0.5	< 0.5	< 0.5	< 10								< 0.5	< 0.5			
Trimethylphenol	100	ug/l	FEQS	0	< 0.5	< 0.5	< 0.5	< 0.5	< 10								< 0.5	< 0.5			
Speciated PAHs																					
Naphthalene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 1	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01			
Acenaphthylene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 1	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01			
Acenaphthene	2000	ug/l	USEPA	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 1	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01			
Fluorene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 1	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01			
Phenanthrene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 1	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01			
Anthracene	0.1	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 1	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01			
Fluoranthene	0.0063	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 1	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01			
Pyrene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 1	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01			
Benzo(a)anthracene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 1	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01			
Chrysene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 1	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01			
Benzo(b)fluoranthene	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 1	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01			
Benzo(k)fluoranthene	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 1	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01			
Benzo(a)pyrene	0.01	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 1	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01			
Indeno(1,2,3-cd)pyrene	0.1	ug/l	UK DWS	0	< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 1	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.001	< 0.001				
Dibenzo(a,h)anthracene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 1	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01			
Benzo(g,h,i)perylene	0.1	ug/l	UK DWS	0	< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 1	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.001	< 0.001				
Heavy metals and metalloids																					

Appendix G

G9 Groundwater Downgradient

Assessment Scenario

Water Abstraction

					Summary													
Lab Sample ID	Screening value	Units	Screening standard	Number of Exceedances	1107475	1134169	1160660	1180863	ARP16-CP-BH27	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	951128	962362
Client Sample No					ARP16-CP-BH27	ARP16-CP-BH27	ARP16-CP-BH27	ARP16-CP-BH27	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29
Client Sample ID	None Supplied																	
Depth to Top	None Supplied																	
Depth to Bottom	None Supplied																	
Date Sampled	None Supplied																	
Sample Type	None Supplied																	
					04/12/2018	17/01/2019	20/02/2019	19/03/2019	16/11/16	22/11/16	30/11/16	03/02/17	07/03/17	04/04/17	17/05/17	26/04/2018	16/05/2018	
Antimony	5	ug/l	UK DWS	0	< 0.4	0.7	< 0.4	< 0.4				< 1	< 1	< 1	< 1	< 0.4	< 0.4	
Arsenic	10	ug/l	UK DWS	0	< 0.15	< 0.15	< 0.15	0.3	< 1			< 1	< 1	< 1	< 1	0.31	0.21	
Barium	700	ug/l	WHO	0	73	69	76	63	188							180	130	
Beryllium	4	ug/l	USEPA	0	< 0.1	< 0.1	< 0.1	< 0.1	< 1			< 1	< 1	< 1	< 1	< 0.1	< 0.1	
Boron	1000	ug/l	UK DWS	1	27	14	51	38	17							< 10	< 10	
Cadmium >200mg/l CaCO3	5	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02	< 0.02	< 0.2			< 0.2	< 0.2	< 0.2	< 0.2	0.03	< 0.02	
Calcium	N/A	mg/l	-	0	100	110	130	120				123	132	130	130	120	96	
Chromium VI	3.4	ug/l	FEQS	2	< 5.0	< 5.0	< 5.0	< 5.0	< 10							< 5.0	< 5.0	
Chromium III	4.7	ug/l	FEQS	0	1.8	1.2	1.4	1.5								1.4	1.5	
Chromium Total	50	ug/l	UK DWS	0	1.8	1.2	1.4	1.5	< 1			< 1	< 1	< 1	< 1	1.4	1.5	
Copper (bioavailable), DOC <1mg/l	2000	ug/l	UK DWS	0	1.3	< 0.5	1	2.1	< 1			1	< 1	< 1	< 1	1.1	1.1	
Iron	0.2	mg/l	UK DWS	2	< 0.004	< 0.004	0.01	< 0.004				0.022	< 0.01	< 0.01	0.011	0.013	0.054	
Lead	10	ug/l	UK DWS	0	< 0.2	< 0.2	< 0.2	< 0.2	< 1			< 1	< 1	< 1	< 1	< 0.2	0.6	
Magnesium	N/A	mg/l	-	0	1.7	2	2.8	1.9				2	2	2	2	3.1	2.5	
Manganese (bioavailable)	50	ug/l	UK DWS	26	0.54	0.57	< 0.05	2.2				4	1	1	3	1.4	21	
Mercury	1	ug/l	UK DWS	2	< 0.05	< 0.05	< 0.05	0.24	< 0.1			< 0.1	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	
Molybdenum	70	ug/l	WHO	0	0.44	0.31	0.15	0.62								< 0.05	< 0.05	
Nickel >200 mg/l CaCO3	20	ug/l	UK DWS	2	0.9	0.75	0.6	0.8	< 1			< 1	< 1	< 1	< 1	0.5	0.7	
Potassium	N/A	mg/l	-	0	0.72	0.8	4.2	0.7				< 1	< 1	< 1	< 1	0.82	0.59	
Selenium	10	ug/l	UK DWS	0	0.7	9.8	< 0.6	< 0.6	< 1			< 1	< 1	< 1	< 1	0.9	< 0.6	
Sodium	50	mg/l	WHO	26	9.7	0.2	36	11				7	6	6	6	8.2	7	
Vanadium	20	ug/l	FEQS	0	0.2		< 0.2	0.4	< 1			< 1	< 1	< 1	< 1	0.2	0.6	
Zinc >250 mg/l CaCO3	5000	ug/l	USEPA	0	2.3	1.1	2	3.5	3			13	2	3	5	4.3	0.6	
Monoaromatics																		
Benzene	1	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1			< 1	< 1	< 1	< 1	< 1.0	< 1.0	
Toluene	74	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1			< 1	< 1	< 1	< 1	< 1.0	< 1.0	
Ethylbenzene	20	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1			< 1	< 1	< 1	< 1	< 1.0	< 1.0	
Xylenes	30	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1							< 1.0	< 1.0	
MTBE	15	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1							< 1.0	< 1.0	
Petroleum hydrocarbons																		
TPH	N/A	ug/l	-	0					< 5									
TPH >C5-C6 Aliphatics	15000	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1							< 1.0	< 1.0	
TPH >C6-C8 Aliphatics	15000	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1							< 1.0	< 1.0	
TPH >C8-C10 Aliphatics	300	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1							< 1.0	< 1.0	
TPH >C10-C12 Aliphatics	300	ug/l	WHO	0	< 10	< 10	< 10	< 10	< 5							< 10	< 10	
TPH >C12-C16 Aliphatics	300	ug/l	WHO	0	< 10	< 10	< 10	< 10	< 5							< 10	< 10	
TPH >C16-C21 Aliphatics	300	ug/l	WHO	0	< 10	< 10	< 10	< 10	< 5							< 10	< 10	
TPH >C21-C35 Aliphatics	300	ug/l	WHO	0	< 10	< 10	< 10	< 10	< 5							< 10	< 10	
TPH-CWG - Aliphatic >C16 - C35	300	ug/l	WHO	0	< 10	< 10	< 10	< 10								< 10	< 10	
TPH-CWG - Aliphatic >C35 - C44	300	ug/l	WHO	0	< 10	< 10	< 10	< 10								< 10	< 10	
C5-C35 Aliphatics	N/A	ug/l	-	0	< 10	< 10	< 10	< 10								< 10	< 10	
TPH-CWG - Aliphatic (C5 - C44)	N/A	ug/l	-	0	< 10	< 10	< 10	< 10								< 10	< 10	
TPH >C5-C6 Aromatics	10	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1							< 1.0	< 1.0	
TPH >C7-C8 Aromatics	700	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1							< 1.0	< 1.0	
TPH >C8-C9 Aromatics	300	ug/l	WHO	0					< 1									
TPH >C9-C10 Aromatics	300	ug/l	WHO	0					< 1									
TPH >C8-C10 Aromatics	300	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0								< 1.0	< 1.0	
TPH >C10-C12 Aromatics	90	ug/l	WHO	0	< 10	< 10	< 10	< 10					< 5			< 10	< 10	
TPH >C12-C16 Aromatics	90	ug/l	WHO	0	< 10	< 10	< 10	< 10					< 5			< 10	< 10	
TPH >C16-C21 Aromatics	90	ug/l	WHO	0	< 10	< 10	< 10	< 10					< 5			< 10	< 10	
TPH >C21-C35 Aromatics	90	ug/l	WHO	0	< 10	< 10	< 10	< 10					< 5			< 10	< 10	
TPH >C35-C44 Aromatics	90	ug/l	WHO	0	< 10	< 10	< 10	< 10					< 5			< 10	< 10	

Appendix G

G9 Groundwater Downgradient

Assessment Scenario

Water Abstraction

					Summary																
Lab Sample ID	Screening value	Units	Screening standard	Number of Exceedances	1107475	1134169	1160660	1180863	ARP16-CP-BH27	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	951128	962362			
Client Sample No					ARP16-CP-BH27	ARP16-CP-BH27	ARP16-CP-BH27	ARP16-CP-BH27	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	
Client Sample ID					None Supplied	None Supplied														None Supplied	None Supplied
Depth to Top					None Supplied	4.90	None Supplied	None Supplied	02/02/1900	02/02/1900	02/02/1900	03/02/1900	03/02/1900	03/02/1900	03/02/1900	03/02/1900	03/02/1900	03/02/1900	03/02/1900	None Supplied	None Supplied
Depth to Bottom							None Supplied	43.33-54.18												None Supplied	None Supplied
Date Sampled					04/12/2018	17/01/2019	20/02/2019	19/03/2019	16/11/16	22/11/16	30/11/16	03/02/17	07/03/17	04/04/17	17/05/17	26/04/2018	16/05/2018				
Sample Type	None Supplied	None Supplied														None Supplied					
C5-C35 Aromatics	N/A	ug/l	-	0	< 10	< 10	< 10	< 10									< 10	< 10			
C5-C35 Aromatics	N/A	ug/l	-	0	< 10	< 10	< 10	< 10									< 10	< 10			
VOCs																					
Chloromethane	20	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 10				< 10	< 10	< 10	< 10	< 1.0	< 1.0			
Chloroethane	3	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1				< 1	< 1	< 1	< 1	< 1.0	< 1.0			
Bromomethane	100	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1				< 1	< 1	< 1	< 1	< 1.0	< 1.0			
Vinyl Chloride	0.5	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1				< 1	< 1	< 1	< 1	< 1.0	< 1.0			
Trichlorofluoromethane	2.5	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1				< 1	< 1	< 1	< 1	< 1.0	< 1.0			
1,1-Dichloroethene	7	ug/l	USEPA	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1				< 1	< 1	< 1	< 1	< 1.0	< 1.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	400	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0									< 1.0	< 1.0			
Cis-1,2 Dichloroethene	50	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1				< 1	< 1	< 1	< 1	< 1.0	< 1.0			
MTBE	15	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1								< 1.0	< 1.0			
1,1 -Dichloroethane	3	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1				< 1	< 1	< 1	< 1	< 1.0	< 1.0			
2,2-Dichloropropane	40	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1				< 1	< 1	< 1	< 1	< 1.0	< 1.0			
Trichloromethane	2.5	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1				< 1	< 1	< 1	< 1	< 1.0	< 1.0			
1,1,1-Trichloroethane	100	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1				< 1	< 1	< 1	< 1	< 1.0	< 1.0			
1,2-Dichloroethane	3	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 2				< 2	< 2	< 2	< 2	< 1.0	< 1.0			
1,1-Dichloropropene	20	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1				< 1	< 1	< 1	< 1	< 1.0	< 1.0			
Trans-1,2 Dichloroethene	50	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1				< 1	< 1	< 1	< 1	< 1.0	< 1.0			
Benzene	1	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1				< 1	< 1	< 1	< 1	< 1.0	< 1.0			
Tetrachloromethane	3	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1				< 1	< 1	< 1	< 1	< 1.0	< 1.0			
1,2-Dichloropropane	40	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1				< 1	< 1	< 1	< 1	< 1.0	< 1.0			
Trichloroethene	10	ug/l	UK DWS	2	< 1.0	< 1.0	< 1.0	< 1.0	< 1				< 1	< 1	< 1	< 1	< 1.0	< 1.0			
Dibromomethane	100	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1				< 1	< 1	< 1	< 1	< 1.0	< 1.0			
Bromodichloromethane	100	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 10				< 10	< 10	< 10	< 10	< 1.0	< 1.0			
Cis-1,3 Dichloropropene	20	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1				< 1	< 1	< 1	< 1	< 1.0	< 1.0			
Trans-1,3 Dichloropropene	20	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1				< 1	< 1	< 1	< 1	< 1.0	< 1.0			
Toluene	74	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0									< 1.0	< 1.0			
1,1,2-Trichloroethane	400	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1				< 1	< 1	< 1	< 1	< 1.0	< 1.0			
1,3-Dichloropropane	40	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1				< 1	< 1	< 1	< 1	< 1.0	< 1.0			
Dibromochloromethane	100	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 3				< 3	< 3	< 3	< 3	< 1.0	< 1.0			
Tetrachloroethene	10	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1				< 1	< 1	< 1	< 1	< 1.0	< 1.0			
1,2-Dibromoethane	0.4	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1				< 1	< 1	< 1	< 1	< 1.0	< 1.0			
Chlorobenzene	0.4	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1				< 1	< 1	< 1	< 1	< 1.0	< 1.0			
1,1,1,2-Tetrachloroethane	400	ug/l	USEPA	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1				< 1	< 1	< 1	< 1	< 1.0	< 1.0			
Ethylbenzene	20	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0									< 1.0	< 1.0			
m,p-Xylenes	30	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1				< 1	< 1	< 1	< 1	< 1.0	< 1.0			
Styrene	20	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1				< 1	< 1	< 1	< 1	< 1.0	< 1.0			
Tribromomethane	#####	ug/l	Default	0	< 1.0	< 1.0	< 1.0	< 1.0									< 1.0	< 1.0			
o-Xylene	30	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1				< 1	< 1	< 1	< 1	< 1.0	< 1.0			
1,1,2,2-Tetrachloroethane	400	ug/l	USEPA	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1				< 1	< 1	< 1	< 1	< 1.0	< 1.0			
Iso-propylbenzene	1	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1				< 1	< 1	< 1	< 1	< 1.0	< 1.0			
Bromobenzene	1	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1				< 1	< 1	< 1	< 1	< 1.0	< 1.0			
Propylbenzene	1	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1				< 1	< 1	< 1	< 1	< 1.0	< 1.0			
2-Chlorotoluene	700	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1				< 1	< 1	< 1	< 1	< 1.0	< 1.0			
4-Chlorotoluene	700	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1				< 1	< 1	< 1	< 1	< 1.0	< 1.0			
1,3,5 Trimethylbenzene	1	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1				< 1	< 1	< 1	< 1	< 1.0	< 1.0			
tert-Butylbenzene	1	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 2				< 2	< 2	< 2	< 2	< 1.0	< 1.0			
1,2,4 Trimethylbenzene	1	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1				< 1	< 1	< 1	< 1	< 1.0	< 1.0			
sec-Butylbenzene	1	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1				< 1	< 1	< 1	< 1	< 1.0	< 1.0			
1,3 Dichlorobenzene	3000	ug/l	USEPA	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1			< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0			
p-Isopropyltoluene	74	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1				< 1	< 1	< 1	< 1	< 1.0	< 1.0			
1,2-Dichlorobenzene	1000	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1			< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0			

Appendix G

G9 Groundwater Downgradient

Assessment Scenario

Water Abstraction

					Summary																
Lab Sample ID	Screening value	Units	Screening standard	Number of Exceedances	1107475	1134169	1160660	1180863	ARP16-CP-BH27	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	951128	962362			
Client Sample No					ARP16-CP-BH27	ARP16-CP-BH27	ARP16-CP-BH27	ARP16-CP-BH27	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	
Client Sample ID					None Supplied	None Supplied	None Supplied	None Supplied	02/02/1900	02/02/1900	02/02/1900	03/02/1900	03/02/1900	03/02/1900	03/02/1900	03/02/1900	03/02/1900	03/02/1900	03/02/1900	None Supplied	None Supplied
Depth to Top					None Supplied	4.90	None Supplied	None Supplied												None Supplied	None Supplied
Depth to Bottom							None Supplied	43.33-54.18												None Supplied	None Supplied
Date Sampled					04/12/2018	17/01/2019	20/02/2019	19/03/2019	16/11/16	22/11/16	30/11/16	03/02/17	07/03/17	04/04/17	17/05/17	26/04/2018	16/05/2018				
Sample Type	None Supplied	None Supplied														None Supplied					
1,4 Dichlorobenzene	300	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0			
n-Butylbenzene	1	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1			< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0			
1,2-Dibromo-3-chloropropane	1	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 2			< 2	< 2	< 2	< 2	< 2	< 1.0	< 1.0			
1,2,4-Trichlorobenzene	70	ug/l	USEPA	0	< 1.0	< 1.0	< 1.0	< 1.0	< 3		< 1	< 3	< 3	< 3	< 3	< 3	< 1.0	< 1.0			
Hexachlorobutadiene	0.6	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0			
2,6 Chloronitrotoluene	700	ug/l	WHO	0	< 1	< 1	< 1	< 1									< 1	< 1			
4,2 Chloronitrotoluene	700	ug/l	WHO	0	< 1	< 1	< 1	< 1									< 1	< 1			
4,3 Chloronitrotoluene	700	ug/l	WHO	0	< 1	< 1	< 1	< 1									< 1	< 1			
2,4 Chloronitrotoluene	700	ug/l	WHO	0	< 1	< 1	< 1	< 1									< 1	< 1			
2,5 Chloronitrotoluene	700	ug/l	WHO	0	< 1	< 1	< 1	< 1									< 1	< 1			
1,2,3-Trichlorobenzene	0.4	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 3			< 3	< 3	< 3	< 3	< 3	< 1.0	< 1.0			
1,2,3-Trichloropropane	40	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1			< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0			
1,3,5-Trichlorobenzene	0.4	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0									< 1.0	< 1.0			
Bromochloromethane	100	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 5			< 5	< 5	< 5	< 5	< 5	< 1.0	< 1.0			
Dichloromethane	20	ug/l	FEQS	0	< 100	< 100	< 3.0	< 3.0	< 5			< 5	< 5	< 5	< 5	< 5	< 100	< 100			
Carbon disulphide	#####	ug/l	Default	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1			< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0			
Dichlorodifluoromethane	20	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1			< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0			
SVOCs																					
Phenol	7.7	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05			
2-Chlorophenol	50	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05			
Bis(2-chloroethyl)ether	1000	ug/l	USEPA	0	< 0.05	< 0.05	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05			
Bis(2-chloroisopropyl)ether	1000	ug/l	USEPA	0	< 0.05	< 0.05	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05			
2-Methylphenol	100	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05			
Hexachloroethane	40	ug/l	USEPA	0	< 0.05	< 0.05	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05			
Nitrobenzene	1	ug/l	UK DWS	0	< 0.05	< 0.05	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05			
4-Methylphenol	100	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05			
Isophorone	7000	ug/l	USEPA	0	< 0.05	< 0.05	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05			
2-Nitrophenol	7.7	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05			
2,4-Dimethylphenol	100	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05			
Bis(2-chloroethoxy)methane	#####	ug/l	Default	0	< 0.05	< 0.05	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05			
2,4-Dichlorophenol	4.2	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05			
4-Chloro-3-methylphenol	40	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05			
2,4,6-trichlorophenol	200	ug/l	WHO	0	< 0.05	< 0.05	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05			
2,4,5-Trichlorophenol	200	ug/l	WHO	0	< 0.05	< 0.05	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05			
2-Methylnaphthalene	2	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05			
2-Chloronaphthalene	2	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05			
Dimethylphthalate	800	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05			
2,6-Dinitrotoluene	100	ug/l	USEPA	0	< 0.05	< 0.05	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05			
2,4-Dinitrotoluene	100	ug/l	USEPA	0	< 0.05	< 0.05	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05			
Dibenzofuran	2	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05			
Diethyl phthalate	200	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05			
Bromophenyl phenyl ether	#####	ug/l	Default	0	< 0.05	< 0.05	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05			
Hexachlorobenzene	1	ug/l	USEPA	0	< 0.05	< 0.05	< 0.05	< 0.05	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05			
Phenanthrene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01									< 0.01	< 0.01			
Carbazole	2	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05			
Di-n-butyl phthalate	8	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05			
Butyl benzyl phthalate	7.5	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05			
PCBs by GC-ECD - WHO 12																					
PCB Congener 77	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020	< 0.020			< 0.001						< 0.020	< 0.020			
PCB Congener 81	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020	< 0.020			< 0.001						< 0.020	< 0.020			
PCB Congener 105	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020	< 0.020			< 0.001						< 0.020	< 0.020			
PCB Congener 114	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020	< 0.020			< 0.001						< 0.020	< 0.020			
PCB Congener 118	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020	< 0.020			< 0.002						< 0.020	< 0.020			

Appendix G

G9 Groundwater Downgradient

Assessment Scenario

Water Abstraction

					Summary																	
Lab Sample ID	Screening value	Units	Screening standard	Number of Exceedances	1107475	1134169	1160660	1180863	ARP16-CP-BH27	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	951128	962362				
Client Sample No					ARP16-CP-BH27	ARP16-CP-BH27	ARP16-CP-BH27	ARP16-CP-BH27	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29		
Client Sample ID					None Supplied	None Supplied	None Supplied	None Supplied	02/02/1900	02/02/1900	02/02/1900	03/02/1900	03/02/1900	03/02/1900	03/02/1900	03/02/1900	03/02/1900	03/02/1900	03/02/1900	None Supplied	None Supplied	
Depth to Top					None Supplied	4.90	None Supplied	None Supplied	43.33-54.18											None Supplied	None Supplied	
Depth to Bottom																						
Date Sampled					04/12/2018	17/01/2019	20/02/2019	19/03/2019	16/11/16	22/11/16	30/11/16	03/02/17	07/03/17	04/04/17	17/05/17	26/04/2018	16/05/2018					
Sample Type	None Supplied	None Supplied														None Supplied						
PCB Congener 123	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020	< 0.020				< 0.001					< 0.020	< 0.020				
PCB Congener 126	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020	< 0.020				< 0.001					< 0.020	< 0.020				
PCB Congener 156	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020	< 0.020				< 0.001					< 0.020	< 0.020				
PCB Congener 157	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020	< 0.020				< 0.001					< 0.020	< 0.020				
PCB Congener 167	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020	< 0.020				< 0.001					< 0.020	< 0.020				
PCB Congener 169	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020	< 0.020				< 0.001					< 0.020	< 0.020				
PCB Congener 189	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020	< 0.020				< 0.001					< 0.020	< 0.020				
PCBs	25	ug/l	FEQS	0	< 0.300	< 0.300	< 0.300	< 0.300									< 0.300	< 0.300				
Environmental Forensics																						
PFOS	0.3	ug/l	DWS	1	< 0.05	< 0.05	< 0.05	< 0.05									< 0.05	< 0.05				
PFOS	0.3	ug/l	DWS	0																		
PFOA	0.3	ug/l	DWS	0	< 0.05	< 0.05	< 0.05	< 0.05									< 0.05	< 0.05				
Metaldehyde	0.1	ug/l	UK DWS	20	< 0.1	< 0.1	< 0.1	< 0.2									< 0.1	< 0.1				
Chloronitrotoluenes (sum)	10	ug/l	FEQS	0	< 0.1	< 0.1	< 0.1	< 0.1									< 0.1	< 0.1				
Chlorbufam	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10	< 0.10		< 1.0							< 0.10	< 0.10				
Chloroxuron	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10	< 0.10		< 0.1							< 0.10	< 0.10				
Chlorpropham	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10	< 0.10		< 1.0							< 0.10	< 0.10				
Ethiofencarb	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10	< 0.10		< 0.1							< 0.10	< 0.10				
Phenmedipham	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10	< 0.10		< 0.1							< 0.10	< 0.10				
Proptham	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10	< 0.10		< 0.1							< 0.10	< 0.10				
Dimefuron	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10	< 0.10		< 0.1							< 0.10	< 0.10				
Metoxuron	0.1	ug/l	UK DWS	1	< 0.10	< 0.10	< 0.10	< 0.2		< 0.1							< 0.10	< 0.10				
Pencycuron	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10	< 0.10		< 0.1							< 0.10	< 0.10				
o,p-Methoxychlor	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01		< 0.01							< 0.01	< 0.01				
Demeton-s-methyl	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10	< 0.10									< 0.10	< 0.10				
Diclofop	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02	< 0.02		< 0.02							< 0.02	< 0.02				
Fenvalerate	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10	< 0.10		< 0.1							< 0.10	< 0.10				
Cyhalothrin	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10	< 0.10		< 0.1							< 0.10	< 0.10				
Ametryn	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10	< 0.10									< 0.10	< 0.10				
Atrazine-methoxy	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10	< 0.10		< 0.1							< 0.10	< 0.10				
Bromacil	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02	< 0.02		< 0.02							< 0.02	< 0.02				
Flamprop	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02	< 0.02		< 0.02							< 0.02	< 0.02				
Flamprop-isopropyl	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02	< 0.02		< 0.02							< 0.02	< 0.02				
Prometon	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10	< 0.10		< 0.1							< 0.10	< 0.10				
Simetryn	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10	< 0.10		< 0.1							< 0.10	< 0.10				
4-Nitrophenol	7.7	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05				< 1	< 1	< 1	< 1	< 1	< 1	< 1				
Hexachlorocyclopentadiene	50	ug/l	USEPA	0	< 1	< 1	< 1	< 1				< 1	< 1	< 1	< 1	< 1	< 1	< 1				
Perylene	2	ug/l	FEQS	0	< 1	< 1	< 1	< 1		< 1			< 1	< 1	< 1	< 1	< 1	< 1				
n-Nitroso-n-dipropylamine	0.1	ug/l	UK DWS	0	< 1	< 1	< 1	< 1		< 1			< 1	< 1	< 1	< 1	< 1	< 1				
Carbamates																						
Pirimicarb	100	ng/l	UK DWS	0	< 20	< 20	< 20	< 20		< 0.1							< 20	< 20				
Carbetamide	100	ng/l	UK DWS	0	< 20	< 20	< 20	< 200.00		< 0.1							< 20	< 20				
Phthalates																						
Bis(2-ethylhexyl)phthalate	8	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0				< 2	< 2	< 2	< 2	< 10	< 1.0	< 1.0				
Di-n-octyl phthalate	20	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0				< 10	< 10	< 10	< 10	< 10	< 1.0	< 1.0				
Total phthalates	N/A	mg/l	-	0																		
Glycols																						
Ethylene Glycol	ISSUE	mg/l	Default	0	< 10	< 10	< 10	< 10									< 10	< 10				
Diethylene Glycol	ISSUE	mg/l	Default	0	< 10	< 10	< 10	< 10									< 10	< 10				
1,2-Propanediol	ISSUE	mg/l	Default	0	< 10	< 10	< 10	< 10									< 10	< 10				
Rodenticides																						
Triazine Pesticides																						

Appendix G

G9 Groundwater Downgradient

Assessment Scenario

Water Abstraction

					Summary																
Lab Sample ID	Screening value	Units	Screening standard	Number of Exceedances	1107475	1134169	1160660	1180863	ARP16-CP-BH27	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	951128	962362			
Client Sample No					ARP16-CP-BH27	ARP16-CP-BH27	ARP16-CP-BH27	ARP16-CP-BH27	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29
Client Sample ID					None Supplied	None Supplied														None Supplied	None Supplied
Depth to Top					None Supplied	4.90	None Supplied	None Supplied	02/02/1900	02/02/1900	02/02/1900	03/02/1900	03/02/1900	03/02/1900	03/02/1900	03/02/1900	03/02/1900	03/02/1900	03/02/1900	None Supplied	None Supplied
Depth to Bottom							None Supplied	43.33-54.18												None Supplied	None Supplied
Date Sampled					04/12/2018	17/01/2019	20/02/2019	19/03/2019	16/11/16	22/11/16	30/11/16	03/02/17	07/03/17	04/04/17	17/05/17	26/04/2018	16/05/2018				
Sample Type	None Supplied	None Supplied														None Supplied	None Supplied				
Atrazine	0.1	ug/l	UK DWS	18	< 0.05	< 0.05	< 0.05	< 0.05		< 0.1						0.12	0.09				
Simazine	0.1	ug/l	UK DWS	0	< 0.05	< 0.05	< 0.05	< 0.05		< 0.1						< 0.05	< 0.05				
Prometryn	0.1	ug/l	UK DWS	0	< 0.05	< 0.05	< 0.05	< 0.05		< 0.1						< 0.05	< 0.05				
Propazine	0.1	ug/l	UK DWS	0	< 0.05	< 0.05	< 0.05	< 0.05		< 0.1						< 0.05	< 0.05				
Terbutylazine	0.1	ug/l	UK DWS	0	< 0.05	< 0.05	< 0.05	< 0.05		< 0.1						< 0.05	< 0.05				
Terbutryn	0.1	ug/l	UK DWS	0	< 0.05	< 0.05	< 0.05	< 0.05		< 0.1						< 0.05	< 0.05				
Acid herbicides esters																					
2,4-D Methyl Ester	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02	< 0.02								< 0.02	< 0.02				
2,4-D butyl ester	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10	< 0.10								< 0.10	< 0.10				
2,4-D ethyl ester	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10	< 0.10								< 0.10	< 0.10				
2,4-D isobutyl ester	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10	< 0.10								< 0.10	< 0.10				
2,4-D isopropyl ester	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10	< 0.10								< 0.10	< 0.10				
Acid Herbicides																					
2,3,6-TBA	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02	< 0.02		< 0.02						< 0.02	< 0.02				
Benazolin	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02	< 0.02		< 0.02						< 0.02	< 0.02				
Bromoxynil	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02	< 0.02		< 0.02						< 0.02	< 0.02				
Clopyralid	0.1	ug/l	UK DWS	0	< 0.02	< 0.20	< 0.20 **	< 0.02		< 0.02						< 0.02	< 0.02				
Ioxynil	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02	< 0.02		< 0.02						< 0.02	< 0.02				
2,4,5-T	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02	< 0.02		< 0.02						< 0.02	< 0.02				
2,4,5-TP	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02	< 0.02		< 0.02						< 0.02	< 0.02				
2,4-D	0.1	ug/l	UK DWS	1	< 0.02	< 0.02	< 0.02	< 0.02		< 0.02						< 0.02	< 0.02				
2,4-DB	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02	< 0.02		< 0.02						< 0.02	< 0.02				
Dicamba	0.1	ug/l	UK DWS	1	< 0.02	< 0.02	< 0.02	< 0.02		< 0.02						< 0.02	< 0.02				
Dichlorprop	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02	< 0.02		< 0.02						< 0.02	< 0.02				
MCPA	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02	< 0.02		< 0.02						< 0.02	< 0.02				
MCPB	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02	< 0.02		< 0.02						< 0.02	< 0.02				
Mecoprop	0.1	ug/l	UK DWS	15	< 0.02	< 0.02	< 0.02	< 0.02		< 0.02						< 0.02	< 0.02				
Picloram	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02	< 0.02		< 0.02						< 0.02	< 0.02				
4-Chlorophenoxyacetic acid	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02	< 0.02		< 0.02						< 0.02	< 0.02				
Organochlorine Pesticides																					
Aldrin	0.03	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01		< 0.01						< 0.01	< 0.01				
alpha-HCH (alpha-BHC)	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01		< 0.01						< 0.01	< 0.01				
beta-HCH (beta-BHC)	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01		< 0.01						< 0.01	< 0.01				
delta-HCH (delta-BHC)	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01		< 0.01						< 0.01	< 0.01				
Dieldrin	0.03	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01		< 0.01						< 0.01	< 0.01				
Endosulfan	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01		< 0.01						< 0.01	< 0.01				
Endosulfan	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01		< 0.01						< 0.01	< 0.01				
Endosulfan Sulphate	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01		< 0.01						< 0.01	< 0.01				
Endrin	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01		< 0.01						< 0.01	< 0.01				
gamma-HCH (gamma-BHC)	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01		< 0.01						< 0.01	< 0.01				
Heptachlor	0.03	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01		< 0.01						< 0.01	< 0.01				
Heptachlor Epoxide	0.03	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01		< 0.01						< 0.01	< 0.01				
Isodrin	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01		< 0.01						< 0.01	< 0.01				
Methoxychlor	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01		< 0.01						< 0.01	< 0.01				
o,p-DDE	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01		< 0.01						< 0.01	< 0.01				
DDT	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01		< 0.01						< 0.01	< 0.01				
o,p-TDE (o,p-DDD)	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01		< 0.01						< 0.01	< 0.01				
p,p-DDE	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01		< 0.01						< 0.01	< 0.01				
DDT	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01		< 0.01						< 0.01	< 0.01				
p,p-TDE (o,p-DDD)	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01		< 0.01						< 0.01	< 0.01				
Trifluralin	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01		< 0.01						< 0.01	< 0.01				
Organonitrogen pesticides																					
Bentazone	0.1	ug/l	UK DWS	1	< 0.02	< 0.02	< 0.02	< 0.02		< 0.02						< 0.02	< 0.02				

Appendix G G9 Groundwater Downgradient

Assessment Scenario

Water Abstraction

					Summary															
Lab Sample ID	Screening value	Units	Screening standard	Number of Exceedances	1107475	1134169	1160660	1180863								951128	962362			
Client Sample No					ARP16-CP-BH27	ARP16-CP-BH27	ARP16-CP-BH27	ARP16-CP-BH27	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29
Client Sample ID					None Supplied	None Supplied													None Supplied	None Supplied
Depth to Top					None Supplied	4.90	None Supplied	None Supplied	02/02/1900	02/02/1900	02/02/1900	03/02/1900	03/02/1900	03/02/1900	03/02/1900	03/02/1900	03/02/1900	03/02/1900	None Supplied	None Supplied
Depth to Bottom							None Supplied	43.33-54.18											None Supplied	None Supplied
Date Sampled					04/12/2018	17/01/2019	20/02/2019	19/03/2019	16/11/16	22/11/16	30/11/16	03/02/17	07/03/17	04/04/17	17/05/17	26/04/2018	16/05/2018			
Sample Type	None Supplied	None Supplied													None Supplied					
Chlorpyrifos	0.0001	mg/l	UK DWS	0						< 0.00001										
Pendimethalin	0.0001	mg/l	UK DWS	0						< 0.00001										
Bromoform	0.1	mg/l	WHO	0					< 0.001			< 0.001	< 0.001	< 0.001	< 0.001					
Methane	N/A	ug/l	-	0			< 0.1	< 0.1				1	< 1	< 2	< 2					

Appendix G

G9 Groundwater Downgradient

Assessment Scenario

Water Abstraction

					Summary																
Lab Sample ID	Screening value	Units	Screening standard	Number of Exceedances	981284	998639	1020261	1053169	1074203	1099110	1107476	1133265	1163628	1180864							
Client Sample No					ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH32	ARP16-CP-BH32	ARP16-CP-BH32	
Client Sample ID					None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth to Top					None Supplied	30.80-44.11	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	39.00	None Supplied	None Supplied	27/01/1900	27/01/1900	26/01/1900
Depth to Bottom																	None Supplied	34.99-43.52			
Date Sampled					13/06/2018	10/07/2018	09/08/2018	25/09/2018	23/10/2018	22/11/2018	04/12/2018	16/01/2019	25/02/2019	19/03/2019	16/11/16	23/11/16	30/11/16				
Sample Type	None Supplied	1225	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied							
Antimony	5	ug/l	UK DWS	0	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4							
Arsenic	10	ug/l	UK DWS	0	0.22	0.23	0.61	0.22	0.17	0.15	< 0.15	0.23	0.2	0.39	< 1						
Barium	700	ug/l	WHO	0	160	120	120	110	120	120	110	120	120	110	64						
Beryllium	4	ug/l	USEPA	0	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 1						
Boron	1000	ug/l	UK DWS	1	19	15	43	19	12	< 10	< 10	< 10	24	52	15						
Cadmium >200mg/l CaCO3	5	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.2						
Calcium	N/A	mg/l	-	0	130	130	120	130	130	110	100	130	150	130							
Chromium VI	3.4	ug/l	FEQS	2	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10						
Chromium III	4.7	ug/l	FEQS	0	1.4	1.7	2.2	1.6	< 1.0	1.1	1.1	1.6	< 1.0	1.3							
Chromium Total	50	ug/l	UK DWS	0	1.4	1.7	2.2	1.6	0.8	1.1	1.1	1.6	0.8	1.3	< 1						
Copper (bioavailable), DOC <1mg/l	2000	ug/l	UK DWS	0	1	4.1	2	2.6	0.7	0.7	1.5	2.6	3	2.1	< 1						
Iron	0.2	mg/l	UK DWS	2	< 0.004	0.007	< 0.004	0.01	0.006	0.005	0.42	< 0.004	< 0.004	0.025							
Lead	10	ug/l	UK DWS	0	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	0.4	< 0.2	< 1						
Magnesium	N/A	mg/l	-	0	2.2	2.4	1.8	2	2.2	1.8	1.7	2.1	1.8	2.5							
Manganese (bioavailable)	50	ug/l	UK DWS	26	0.72	16	5.4	1	0.63	0.93	1.6	1.3	0.71	1.2							
Mercury	1	ug/l	UK DWS	2	< 0.05	< 0.05	< 0.05	< 0.05	0.09	< 0.05	< 0.05	< 0.05	< 0.05	0.16	< 0.1						
Molybdenum	70	ug/l	WHO	0	0.17	0.17	0.37	0.06	0.13	0.07	0.1	0.19	0.3	0.45							
Nickel >200 mg/l CaCO3	20	ug/l	UK DWS	2	< 0.5	3.8	0.7	0.8	< 0.5	0.7	0.6	0.9	0.6	< 0.5	< 1						
Potassium	N/A	mg/l	-	0	0.57	0.69	0.59	0.51	0.62	0.47	0.58	0.64	0.56	0.73							
Selenium	10	ug/l	UK DWS	0	< 0.6	0.7	0.7	1	< 0.6	1	0.8	0.9	< 0.6	< 0.6	< 1						
Sodium	50	mg/l	WHO	26	7.2	8.9	7.5	6.7	6.1	4.8	5.3	6.8	8.2	8							
Vanadium	20	ug/l	FEQS	0	0.3	0.3	0.5	0.3	0.3	< 0.2	0.2	0.3	0.2	0.3	< 1						
Zinc >250 mg/l CaCO3	5000	ug/l	USEPA	0	1.5	12	5.9	1.6	1.3	2.1	6.1	3.8	3.4	1.5	5						
Monoaromatics																					
Benzene	1	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1						
Toluene	74	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1						
Ethylbenzene	20	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1						
Xylenes	30	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0							
MTBE	15	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1						
Petroleum hydrocarbons																					
TPH	N/A	ug/l	-	0											< 5						
TPH >C5-C6 Aliphatics	15000	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1						
TPH >C6-C8 Aliphatics	15000	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1						
TPH >C8-C10 Aliphatics	300	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1						
TPH >C10-C12 Aliphatics	300	ug/l	WHO	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5						
TPH >C12-C16 Aliphatics	300	ug/l	WHO	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5						
TPH >C16-C21 Aliphatics	300	ug/l	WHO	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5						
TPH >C21-C35 Aliphatics	300	ug/l	WHO	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5						
TPH-CWG - Aliphatic >C16 - C35	300	ug/l	WHO	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10							
TPH-CWG - Aliphatic >C35 - C44	300	ug/l	WHO	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10							
C5-C35 Aliphatics	N/A	ug/l	-	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10							
TPH-CWG - Aliphatic (C5 - C44)	N/A	ug/l	-	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10							
TPH >C5-C6 Aromatics	10	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1						
TPH >C7-C8 Aromatics	700	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1						
TPH >C8-C9 Aromatics	300	ug/l	WHO	0											< 1						
TPH >C9-C10 Aromatics	300	ug/l	WHO	0											< 1						
TPH >C8-C10 Aromatics	300	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0						
TPH >C10-C12 Aromatics	90	ug/l	WHO	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10							
TPH >C12-C16 Aromatics	90	ug/l	WHO	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10							
TPH >C16-C21 Aromatics	90	ug/l	WHO	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10							
TPH >C21-C35 Aromatics	90	ug/l	WHO	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10							
TPH >C35-C44 Aromatics	90	ug/l	WHO	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10							

Appendix G

G9 Groundwater Downgradient

Assessment Scenario

Water Abstraction

					Summary																
Lab Sample ID	Screening value	Units	Screening standard	Number of Exceedances	981284	998639	1020261	1053169	1074203	1099110	1107476	1133265	1163628	1180864							
Client Sample No					ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH32	ARP16-CP-BH32	ARP16-CP-BH32	
Client Sample ID					None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth to Top					None Supplied	30.80-44.11	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	27/01/1900	27/01/1900	26/01/1900
Depth to Bottom																		None Supplied	34.99-43.52		
Date Sampled																					
Sample Type					13/06/2018	10/07/2018	09/08/2018	25/09/2018	23/10/2018	22/11/2018	04/12/2018	16/01/2019	25/02/2019	19/03/2019	16/11/16	23/11/16	30/11/16				
1,4 Dichlorobenzene	300	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0				
n-Butylbenzene	1	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0				
1,2-Dibromo-3-chloropropane	1	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0				
1,2,4-Trichlorobenzene	70	ug/l	USEPA	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0				
Hexachlorobutadiene	0.6	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0				
2,6 Chloronitrotoluene	700	ug/l	WHO	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1				
4,2 Chloronitrotoluene	700	ug/l	WHO	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1				
4,3 Chloronitrotoluene	700	ug/l	WHO	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1				
2,4 Chloronitrotoluene	700	ug/l	WHO	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1				
2,5 Chloronitrotoluene	700	ug/l	WHO	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1				
1,2,3-Trichlorobenzene	0.4	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0				
1,2,3-Trichloropropane	40	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0				
1,3,5-Trichlorobenzene	0.4	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0				
Bromochloromethane	100	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0				
Dichloromethane	20	ug/l	FEQS	0	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 3.0	< 3.0	< 3.0	< 3.0				
Carbon disulphide	#####	ug/l	Default	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0				
Dichlorodifluoromethane	20	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0				
SVOCs																					
Phenol	7.7	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05				
2-Chlorophenol	50	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05				
Bis(2-chloroethyl)ether	1000	ug/l	USEPA	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05				
Bis(2-chloroisopropyl)ether	1000	ug/l	USEPA	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05				
2-Methylphenol	100	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05				
Hexachloroethane	40	ug/l	USEPA	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05				
Nitrobenzene	1	ug/l	UK DWS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05				
4-Methylphenol	100	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05				
Isophorone	7000	ug/l	USEPA	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05				
2-Nitrophenol	7.7	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05				
2,4-Dimethylphenol	100	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05				
Bis(2-chloroethoxy)methane	#####	ug/l	Default	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05				
2,4-Dichlorophenol	4.2	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05				
4-Chloro-3-methylphenol	40	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05				
2,4,6-trichlorophenol	200	ug/l	WHO	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05				
2,4,5-Trichlorophenol	200	ug/l	WHO	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05				
2-Methylnaphthalene	2	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05				
2-Chloronaphthalene	2	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05				
Dimethylphthalate	800	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05				
2,6-Dinitrotoluene	100	ug/l	USEPA	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05				
2,4-Dinitrotoluene	100	ug/l	USEPA	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05				
Dibenzofuran	2	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05				
Diethyl phthalate	200	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05				
Bromophenyl phenyl ether	#####	ug/l	Default	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05				
Hexachlorobenzene	1	ug/l	USEPA	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05				
Phenanthrene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Carbazole	2	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05				
Di-n-butyl phthalate	8	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05				
Butyl benzyl phthalate	7.5	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05				
PCBs by GC-ECD - WHO 12																					
PCB Congener 77	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020				
PCB Congener 81	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020				
PCB Congener 105	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020				
PCB Congener 114	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020				
PCB Congener 118	25	ug/l	FEQS	0	&																

Appendix G

G9 Groundwater Downgradient

Assessment Scenario

Water Abstraction

					Summary																
Lab Sample ID	Screening value	Units	Screening standard	Number of Exceedances	981284	998639	1020261	1053169	1074203	1099110	1107476	1133265	1163628	1180864							
Client Sample No					ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH32	ARP16-CP-BH32	ARP16-CP-BH32	
Client Sample ID					None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth to Top					None Supplied	30.80-44.11	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	27/01/1900	27/01/1900	26/01/1900
Depth to Bottom																	39.00	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled																		None Supplied	34.99-43.52		
Sample Type					13/06/2018	10/07/2018	09/08/2018	25/09/2018	23/10/2018	22/11/2018	04/12/2018	16/01/2019	25/02/2019	19/03/2019	16/11/16	23/11/16	30/11/16				
PCB Congener 123	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.001				
PCB Congener 126	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.001				
PCB Congener 156	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.001				
PCB Congener 157	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.001				
PCB Congener 167	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.001				
PCB Congener 169	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.001				
PCB Congener 189	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.001				
PCBs	25	ug/l	FEQS	0	< 0.300	< 0.300	< 0.300	< 0.300	< 0.300	< 0.300	< 0.300	< 0.300	< 0.300	< 0.300	< 0.300	< 0.300	< 0.001				
Environmental Forensics																					
PFOS	0.3	ug/l	DWS	1	0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05					
PFOS	0.3	ug/l	DWS	0																	
PFOA	0.3	ug/l	DWS	0	0.06	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05					
Metaldehyde	0.1	ug/l	UK DWS	20	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2	< 0.1					
Chloronitrotoluenes (sum)	10	ug/l	FEQS	0	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1					
Chlorbufam	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 1.0				
Chloroxuron	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.1				
Chlorpropham	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 1.0				
Ethiofencarb	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.1				
Phenmedipham	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.1				
Propam	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.1				
Dimefuron	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.1				
Metoxuron	0.1	ug/l	UK DWS	1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.2	< 0.1	< 0.1				
Pencycuron	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.1				
o,p-Methoxychlor	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Demeton-s-methyl	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.1				
Diclofop	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02				
Fenvalerate	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.1				
Cyhalothrin	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.1				
Ametryn	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.1				
Atrazine-methoxy	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.1				
Bromacil	0.1	ug/l	UK DWS	0	0.05	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02				
Flamprop	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02				
Flamprop-isopropyl	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02				
Prometon	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.1				
Simetryn	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.1				
4-Nitrophenol	7.7	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 1				
Hexachlorocyclopentadiene	50	ug/l	USEPA	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1				
Perylene	2	ug/l	FEQS	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1				
n-Nitroso-n-dipropylamine	0.1	ug/l	UK DWS	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1				
Carbamates																					
Pirimicarb	100	ng/l	UK DWS	0	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 0.1				
Carbetamide	100	ng/l	UK DWS	0	< 20	< 20	< 20	< 20	< 20	< 100.00	< 20	< 20	< 20	< 20	< 200.00	< 20	< 0.1				
Phthalates																					
Bis(2-ethylhexyl)phthalate	8	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2				
Di-n-octyl phthalate	20	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10				
Total phthalates	N/A	mg/l	-	0			< 3.5														
Glycols																					
Ethylene Glycol	ISSUE	mg/l	Default	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10				
Diethylene Glycol	ISSUE	mg/l	Default	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10				
1,2-Propanediol	ISSUE	mg/l	Default	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10				
Rodenticides																					
Triazine Pesticides																					

Appendix G

G9 Groundwater Downgradient

Assessment Scenario

Water Abstraction

					Summary																
Lab Sample ID	Screening value	Units	Screening standard	Number of Exceedances	981284	998639	1020261	1053169	1074203	1099110	1107476	1133265	1163628	1180864							
Client Sample No					ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH32	ARP16-CP-BH32	ARP16-CP-BH32	
Client Sample ID					None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth to Top					None Supplied	30.80-44.11	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	27/01/1900	27/01/1900	26/01/1900
Depth to Bottom																		None Supplied	34.99-43.52		
Date Sampled					13/06/2018	10/07/2018	09/08/2018	25/09/2018	23/10/2018	22/11/2018	04/12/2018	16/01/2019	25/02/2019	19/03/2019	16/11/16	23/11/16	30/11/16				
Sample Type	None Supplied	1225	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied								
Atrazine	0.1	ug/l	UK DWS	18	0.09		0.09	0.11	0.12	0.13	0.12	0.14	0.13	0.15			< 0.1				
Simazine	0.1	ug/l	UK DWS	0	< 0.05		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			< 0.1				
Prometryn	0.1	ug/l	UK DWS	0	< 0.05		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			< 0.1				
Propazine	0.1	ug/l	UK DWS	0	< 0.05		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			< 0.1				
Terbutylazine	0.1	ug/l	UK DWS	0	< 0.05		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			< 0.1				
Terbutryn	0.1	ug/l	UK DWS	0	< 0.05		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			< 0.1				
Acid herbicides esters																					
2,4-D Methyl Ester	0.1	ug/l	UK DWS	0	< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02							
2,4-D butyl ester	0.1	ug/l	UK DWS	0	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10							
2,4-D ethyl ester	0.1	ug/l	UK DWS	0	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10							
2,4-D isobutyl ester	0.1	ug/l	UK DWS	0	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10							
2,4-D isopropyl ester	0.1	ug/l	UK DWS	0	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10							
Acid Herbicides																					
2,3,6-TBA	0.1	ug/l	UK DWS	0	< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02			< 0.02				
Benazolin	0.1	ug/l	UK DWS	0	< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02			< 0.02				
Bromoxynil	0.1	ug/l	UK DWS	0	< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02			< 0.02				
Clopyralid	0.1	ug/l	UK DWS	0	< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.20	< 0.20	< 0.02			< 0.02				
Ioxynil	0.1	ug/l	UK DWS	0	< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02			< 0.02				
2,4,5-T	0.1	ug/l	UK DWS	0	< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02			< 0.02				
2,4,5-TP	0.1	ug/l	UK DWS	0	< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02			< 0.02				
2,4-D	0.1	ug/l	UK DWS	1	< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02			< 0.02				
2,4-DB	0.1	ug/l	UK DWS	0	< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02			< 0.02				
Dicamba	0.1	ug/l	UK DWS	1	< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02			< 0.02				
Dichlorprop	0.1	ug/l	UK DWS	0	< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02			< 0.02				
MCPA	0.1	ug/l	UK DWS	0	< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02			< 0.02				
MCPB	0.1	ug/l	UK DWS	0	< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02			< 0.02				
Mecoprop	0.1	ug/l	UK DWS	15	< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02			< 0.02				
Picloram	0.1	ug/l	UK DWS	0	< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02			< 0.02				
4-Chlorophenoxyacetic acid	0.1	ug/l	UK DWS	0	< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02			< 0.02				
Organochlorine Pesticides																					
Aldrin	0.03	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01			< 0.01				
alpha-HCH (alpha-BHC)	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01			< 0.01				
beta-HCH (beta-BHC)	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01			< 0.01				
delta-HCH (delta-BHC)	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01			< 0.01				
Dieldrin	0.03	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01			< 0.01				
Endosulfan	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01			< 0.01				
Endosulfan Sulphate	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01			< 0.01				
Endrin	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01			< 0.01				
gamma-HCH (gamma-BHC)	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01			< 0.01				
Heptachlor	0.03	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01			< 0.01				
Heptachlor Epoxide	0.03	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01			< 0.01				
Isodrin	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01			< 0.01				
Methoxychlor	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01			< 0.01				
o,p-DDE	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01			< 0.01				
DDT	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01			< 0.01				
o,p-TDE (o,p-DDD)	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01			< 0.01				
p,p-DDE	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01			< 0.01				
DDT	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01			< 0.01				
p,p-TDE (o,p-DDD)	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01			< 0.01				
Trifluralin	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01			< 0.01				
Organonitrogen pesticides																					
Bentazone	0.1	ug/l	UK DWS	1	< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02			< 0.02				

Appendix G G9 Groundwater Downgradient

Assessment Scenario

Water Abstraction

					Summary															
Lab Sample ID	Screening value	Units	Screening standard	Number of Exceedances	981284	998639	1020261	1053169	1074203	1099110	1107476	1133265	1163628	1180864						
Client Sample No					ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH29	ARP16-CP-BH32	ARP16-CP-BH32	ARP16-CP-BH32
Client Sample ID					None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth to Top					None Supplied	30.80-44.11	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	39.00	None Supplied	None Supplied	27/01/1900	27/01/1900	26/01/1900
Depth to Bottom																None Supplied	34.99-43.52			
Date Sampled					13/06/2018	10/07/2018	09/08/2018	25/09/2018	23/10/2018	22/11/2018	04/12/2018	16/01/2019	25/02/2019	19/03/2019	16/11/16	23/11/16	30/11/16			
Sample Type					None Supplied	1225	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied						
Chlorpyrifos	0.0001	mg/l	UK DWS	0													< 0.00001			
Pendimethalin	0.0001	mg/l	UK DWS	0													< 0.00001			
Bromoform	0.1	mg/l	WHO	0													< 0.001			
Methane	N/A	ug/l	-	0									< 0.1	< 0.1						

Appendix G

G9 Groundwater Downgradient

Assessment Scenario

Water Abstraction

					Summary												
Lab Sample ID	Screening value	Units	Screening standard	Number of Exceedances	944660	961490	979302	997699	1020262	1052138	1074204	1096405	1106501				
Client Sample No					ARP16-CP-BH32	ARP16-CP-BH32	ARP16-CP-BH32	ARP16-CP-BH32	ARP16-CP-BH32	ARP16-CP-BH32	ARP16-CP-BH32	ARP16-CP-BH32	ARP16-CP-BH32	ARP16-CP-BH32	ARP16-CP-BH32	ARP16-CP-BH32	
Client Sample ID					None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	
Depth to Top					27/01/1900	27/01/1900	27/01/1900	28/01/1900	None Supplied	None Supplied	None Supplied	26.96-41.01	None Supplied	None Supplied	None Supplied	None Supplied	
Depth to Bottom					None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	
Date Sampled					03/02/17	07/03/17	04/04/17	17/5/17	16/04/2018	15/05/2018	11/06/2018	09/07/2018	08/08/2018	24/09/2018	23/10/2018	21/11/2018	03/12/2018
Sample Type							None Supplied	1200	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied				
Inorganics																	
Organics																	
General inorganics																	
pH	N/A	pH units	-	0	< 5	< 5	< 5	< 5	7.3	7.3	7.3	7.1	7.4	7.5	7.3	7.3	7.3
Total Cyanide	50	ug/l	UK DWS	0	< 5	< 5	< 5	< 5	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Complex Cyanides	50	ug/l	UK DWS	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Free Cyanide	50	ug/l	UK DWS	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Thiocyanate as SCN	50	ug/l	UK DWS	0	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200
Sulphate as SO4	250000	ug/l	UK DWS	0	20000	19000	18000	18000	17900	20400	17500	17200	14900	15500	16000	16300	17300
Sulphide	250000	ug/l	UK DWS	0	< 100	< 100	< 100	< 100	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chloride	250	mg/l	UK DWS	0	14.23	12.95	13.55	14	14	12.95	14	15	16	14	15	15	14
Fluoride	1500	ug/l	UK DWS	0	< 100	140	< 100	< 100	94	130	120	250	110	69	150	110	120
Ammoniacal Nitrogen as N	390	ug/l	UK DWS	22	20	< 20	< 20	< 20	230	38	< 15	17	33	41	50	47	61
Nitrate as N	11.3	mg/l	UK DWS	1					1.72	3.42	1.71	1.82	1.82	1.72	1.74	0.05	1.71
Nitrate as NO3	50	mg/l	UK DWS	2	12.02	10.08	7.43	9.65	7.63	15.1	7.57	8.05	8.07	7.62	7.69	0.21	7.59
Nitrite as N	160	ug/l	UK DWS	4					6	32	14	2.8	1.2	11	19	1.1	3700
Nitrite as NO2	500	ug/l	UK DWS	4	< 100	< 100	< 100	< 100	20	100	45	9.1	< 5.0	38	63	< 5.0	12000
Alkalinity	N/A	mg/l	-	0	246	260	217	215	390	420	390	450	430	520	250	240	120
Chemical Oxygen Demand (COD)	N/A	mg/l	-	0					< 2.0	3.5	5.8	< 2.0	6.4	46	9.1	9.3	11
Biological Oxygen Demand (BOD)	N/A	mg/l	-	0					< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2.2	< 1.0	1.3	< 1.0
Total Oxidised N (Nitrate/ite)	11.3	mg/l	UK DWS	2	2.7	2.3	1.7	2.2	1.7	3.4	1.7	1.8	1.8	1.7	1.8	< 0.3	5.4
Total Suspended Solids	N/A	mg/l	-	0	2774	992	237	5313	310	560	54	1700	500	15000	1100	78	400
Hardness - Total	N/A	mg/l	-	0	267	294	271	287	202	228	227	271	244	206	275	290	372
Bromide	N/A	mg/l	-	0					0.057	0.053	0.065	0.066	0.083	< 0.001	0.066	0.061	0.13
Bromate	0.01	mg/l	UK DWS	0					< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Phenols																	
Catechol	7.7	ug/l	FEQS	0					< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Resorcinol	7.7	ug/l	FEQS	0					< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Ethylphenol & Dimethylphenol	100	ug/l	FEQS	0					< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Cresols	100	ug/l	FEQS	0					< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Naphthols	7.7	ug/l	FEQS	0					< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Isopropylphenol	7.7	ug/l	FEQS	0					< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Phenol	7.7	ug/l	FEQS	0					< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Trimethylphenol	100	ug/l	FEQS	0					< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Speciated PAHs																	
Naphthalene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	0.44	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthylene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthene	2000	ug/l	USEPA	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluorene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Phenanthrene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Anthracene	0.1	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluoranthene	0.0063	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Pyrene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)anthracene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Chrysene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(b)fluoranthene	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(k)fluoranthene	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)pyrene	0.01	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Indeno(1,2,3-cd)pyrene	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Dibenzo(a,h)anthracene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(g,h,i)perylene	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Heavy metals and metalloids																	

Appendix G

G9 Groundwater Downgradient

Assessment Scenario

Water Abstraction

					Summary																
Lab Sample ID	Screening value	Units	Screening standard	Number of Exceedances	ARP16-CP-BH32	ARP16-CP-BH32	ARP16-CP-BH32	ARP16-CP-BH32	944660	961490	979302	997699	1020262	1052138	1074204	1096405	1106501				
Client Sample No					ARP16-CP-BH32	ARP16-CP-BH32	ARP16-CP-BH32	ARP16-CP-BH32	ARP16-CP-BH32	ARP16-CP-BH32	ARP16-CP-BH32	ARP16-CP-BH32	ARP16-CP-BH32	ARP16-CP-BH32	ARP16-CP-BH32	ARP16-CP-BH32	ARP16-CP-BH32	ARP16-CP-BH32	ARP16-CP-BH32	ARP16-CP-BH32	ARP16-CP-BH32
Client Sample ID					None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth to Top					27/01/1900	27/01/1900	27/01/1900	28/01/1900	None Supplied	None Supplied	None Supplied	26.96-41.01	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth to Bottom					None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled					03/02/17	07/03/17	04/04/17	17/5/17	16/04/2018	15/05/2018	11/06/2018	09/07/2018	08/08/2018	24/09/2018	23/10/2018	21/11/2018	03/12/2018				
Sample Type											None Supplied	1200	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
PCB Congener 123	25	ug/l	FEQS	0					< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020			
PCB Congener 126	25	ug/l	FEQS	0					< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020		
PCB Congener 156	25	ug/l	FEQS	0					< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020		
PCB Congener 157	25	ug/l	FEQS	0					< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020		
PCB Congener 167	25	ug/l	FEQS	0					< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020		
PCB Congener 169	25	ug/l	FEQS	0					< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020		
PCB Congener 189	25	ug/l	FEQS	0					< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020		
PCBs	25	ug/l	FEQS	0					< 0.300	< 0.300	< 0.300	< 0.300	< 0.300	< 0.300	< 0.300	< 0.300	< 0.300	< 0.300	< 0.300		
Environmental Forensics																					
PFOS	0.3	ug/l	DWS	1					< 0.05	< 0.05	0.06	0.06	0.06	0.09	0.07	< 0.05	0.09				
PFOS	0.3	ug/l	DWS	0																	
PFOA	0.3	ug/l	DWS	0					< 0.05	< 0.05	0.05	0.05	< 0.05	0.05	< 0.05	< 0.05	< 0.05	0.05			
Metaldehyde	0.1	ug/l	UK DWS	20					< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1			
Chloronitrotoluenes (sum)	10	ug/l	FEQS	0					< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1			
Chlorbufam	0.1	ug/l	UK DWS	0					< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10			
Chloroxuron	0.1	ug/l	UK DWS	0					< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10			
Chlorpropham	0.1	ug/l	UK DWS	0					< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10			
Ethiofencarb	0.1	ug/l	UK DWS	0					< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10			
Phenmedipham	0.1	ug/l	UK DWS	0					< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10			
Propapham	0.1	ug/l	UK DWS	0					< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10			
Dimefuron	0.1	ug/l	UK DWS	0					< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10			
Metoxuron	0.1	ug/l	UK DWS	1					< 0.10	< 0.10	< 0.10		4.9	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10			
Pencycuron	0.1	ug/l	UK DWS	0					< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10			
o,p-Methoxychlor	0.1	ug/l	UK DWS	0					< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01			
Demeton-s-methyl	0.1	ug/l	UK DWS	0					< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10			
Diclofop	0.1	ug/l	UK DWS	0					< 0.02	< 0.02	< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02			
Fenvalerate	0.1	ug/l	UK DWS	0					< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10			
Cyhalothrin	0.1	ug/l	UK DWS	0					< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10			
Ametryn	0.1	ug/l	UK DWS	0		< 0.1	< 0.1		< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10			
Atrazine-methoxy	0.1	ug/l	UK DWS	0					< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10			
Bromacil	0.1	ug/l	UK DWS	0		< 0.02	< 0.02		< 0.02	< 0.02	< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02			
Flamprop	0.1	ug/l	UK DWS	0					< 0.02	< 0.02	< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02			
Flamprop-isopropyl	0.1	ug/l	UK DWS	0					< 0.02	< 0.02	< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02			
Prometon	0.1	ug/l	UK DWS	0					< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10			
Simetryn	0.1	ug/l	UK DWS	0					< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10			
4-Nitrophenol	7.7	ug/l	FEQS	0	< 1	< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			
Hexachlorocyclopentadiene	50	ug/l	USEPA	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			
Perylene	2	ug/l	FEQS	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			
n-Nitroso-n-dipropylamine	0.1	ug/l	UK DWS	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			
Carbamates																					
Pirimicarb	100	ng/l	UK DWS	0					< 20	< 20	< 20		< 20	< 20	< 20	< 20	< 20	< 20			
Carbetamide	100	ng/l	UK DWS	0					< 20	< 20	< 20		< 20	< 20	< 20	< 100.00	< 200.00				
Phthalates																					
Bis(2-ethylhexyl)phthalate	8	ug/l	WHO	0	< 2	< 2	< 2	< 10	5.1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			
Di-n-octyl phthalate	20	ug/l	FEQS	0	< 10	< 10	< 10	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			
Total phthalates	N/A	mg/l	-	0									< 3.5								
Glycols																					
Ethylene Glycol	ISSUE	mg/l	Default	0					< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10			
Diethylene Glycol	ISSUE	mg/l	Default	0					< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10			
1,2-Propanediol	ISSUE	mg/l	Default	0					< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10			
Rodenticides																					
Triazine Pesticides																					

Appendix G

G9 Groundwater Downgradient

Assessment Scenario

Water Abstraction

					Summary											
Lab Sample ID	Screening value	Units	Screening standard	Number of Exceedances	944660	961490	979302	997699	1020262	1052138	1074204	1096405	1106501			
Client Sample No					ARP16-CP-BH32	ARP16-CP-BH32	ARP16-CP-BH32	ARP16-CP-BH32	ARP16-CP-BH32	ARP16-CP-BH32	ARP16-CP-BH32	ARP16-CP-BH32	ARP16-CP-BH32	ARP16-CP-BH32	ARP16-CP-BH32	ARP16-CP-BH32
Client Sample ID					None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth to Top					27/01/1900	27/01/1900	27/01/1900	28/01/1900	None Supplied	None Supplied	None Supplied	26.96-41.01	None Supplied	None Supplied	None Supplied	None Supplied
Depth to Bottom									None Supplied	None Supplied						
Date Sampled					03/02/17	07/03/17	04/04/17	17/5/17	16/04/2018	15/05/2018	11/06/2018	09/07/2018	08/08/2018	24/09/2018	23/10/2018	21/11/2018
Sample Type							None Supplied	1200	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Atrazine	0.1	ug/l	UK DWS	18						0.07		0.06	0.06	0.07	0.09	0.06
Simazine	0.1	ug/l	UK DWS	0						< 0.05		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Prometryn	0.1	ug/l	UK DWS	0						< 0.05		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Propazine	0.1	ug/l	UK DWS	0						< 0.05		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Terbutylazine	0.1	ug/l	UK DWS	0						< 0.05		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Terbutryn	0.1	ug/l	UK DWS	0						< 0.05		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acid herbicides esters																
2,4-D Methyl Ester	0.1	ug/l	UK DWS	0						< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
2,4-D butyl ester	0.1	ug/l	UK DWS	0						< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
2,4-D ethyl ester	0.1	ug/l	UK DWS	0						< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
2,4-D isobutyl ester	0.1	ug/l	UK DWS	0						< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
2,4-D isopropyl ester	0.1	ug/l	UK DWS	0						< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acid Herbicides																
2,3,6-TBA	0.1	ug/l	UK DWS	0						< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Benazolin	0.1	ug/l	UK DWS	0						< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	0.040
Bromoxynil	0.1	ug/l	UK DWS	0						< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Clopyralid	0.1	ug/l	UK DWS	0						< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Ioxynil	0.1	ug/l	UK DWS	0						< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
2,4,5-T	0.1	ug/l	UK DWS	0						< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	0.05
2,4,5-TP	0.1	ug/l	UK DWS	0						< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
2,4-D	0.1	ug/l	UK DWS	1						< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	0.120
2,4-DB	0.1	ug/l	UK DWS	0						< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Dicamba	0.1	ug/l	UK DWS	1						< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Dichlorprop	0.1	ug/l	UK DWS	0						< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	0.05
MCPA	0.1	ug/l	UK DWS	0						< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	0.09
MCPB	0.1	ug/l	UK DWS	0						< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Mecoprop	0.1	ug/l	UK DWS	15						< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	0.28
Picloram	0.1	ug/l	UK DWS	0						< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
4-Chlorophenoxyacetic acid	0.1	ug/l	UK DWS	0						< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Organochlorine Pesticides																
Aldrin	0.03	ug/l	UK DWS	0						< 0.01		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
alpha-HCH (alpha-BHC)	0.1	ug/l	UK DWS	0						< 0.01		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
beta-HCH (beta-BHC)	0.1	ug/l	UK DWS	0						< 0.01		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
delta-HCH (delta-BHC)	0.1	ug/l	UK DWS	0						< 0.01		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dieldrin	0.03	ug/l	UK DWS	0						< 0.01		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Endosulfan	0.1	ug/l	UK DWS	0						< 0.01		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Endosulfan	0.1	ug/l	UK DWS	0						< 0.01		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Endosulfan Sulphate	0.1	ug/l	UK DWS	0						< 0.01		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Endrin	0.1	ug/l	UK DWS	0						< 0.01		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
gamma-HCH (gamma-BHC)	0.1	ug/l	UK DWS	0						< 0.01		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Heptachlor	0.03	ug/l	UK DWS	0						< 0.01		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Heptachlor Epoxide	0.03	ug/l	UK DWS	0						< 0.01		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Isodrin	0.1	ug/l	UK DWS	0						< 0.01		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Methoxychlor	0.1	ug/l	UK DWS	0						< 0.01		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
o,p-DDE	0.1	ug/l	UK DWS	0						< 0.01		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
DDT	0.1	ug/l	UK DWS	0						< 0.01		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
o,p-TDE (o,p-DDD)	0.1	ug/l	UK DWS	0						< 0.01		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
p,p-DDE	0.1	ug/l	UK DWS	0						< 0.01		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
DDT	0.1	ug/l	UK DWS	0						< 0.01		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
p,p-TDE (o,p-DDD)	0.1	ug/l	UK DWS	0						< 0.01		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Trifluralin	0.1	ug/l	UK DWS	0						< 0.01		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Organonitrogen pesticides																
Bentazone	0.1	ug/l	UK DWS	1						< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	0.030

Appendix G

G9 Groundwater Downgradient

Assessment Scenario

Water Abstraction

					Summary																	
Lab Sample ID	Screening value	Units	Screening standard	Number of Exceedances	1131835	1163609	1182060	ARP16-CP-BH32	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	944661	960431	981285				
Client Sample No					ARP16-CP-BH32	ARP16-CP-BH32	ARP16-CP-BH32	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	
Client Sample ID					None Supplied														None Supplied	None Supplied	None Supplied	
Depth to Top					27.16-41.95	None Supplied	None Supplied	None Supplied	16/01/1900	16/01/1900	16/01/1900	17/01/1900	17/01/1900	16/01/1900	17/01/1900	16/01/1900	17/01/1900	16/01/1900	17/01/1900	None Supplied	None Supplied	None Supplied
Depth to Bottom						None Supplied	27.92-41.22												None Supplied	None Supplied		
Date Sampled					15/01/2019	22/02/2019	20/03/2019		16/11/16	23/11/16	01/12/16	03/02/17	07/03/17	04/04/17	17/05/17	16/04/2018	14/05/2018	13/06/2018				
Sample Type	None Supplied																	None Supplied				
Inorganics																						
General inorganics																						
pH	N/A	pH units	-	0	7.3	7.3	7.5									6.9	7	7.1				
Total Cyanide	50	ug/l	UK DWS	0	< 10	< 10	< 10	< 5			< 5	< 5	< 5	< 5	< 10	< 10	< 10	< 10				
Complex Cyanides	50	ug/l	UK DWS	0	< 10	< 10	< 10	< 5							< 10	< 10	< 10	< 10				
Free Cyanide	50	ug/l	UK DWS	0	< 10	< 10	< 10	< 5							< 10	< 10	< 10	< 10				
Thiocyanate as SCN	50	ug/l	UK DWS	0	< 200	< 200	< 200								< 200	< 200	< 200	< 200				
Sulphate as SO4	250000	ug/l	UK DWS	0	16800	16800	15600			40000	40000	46000	40000		36300	38200	37500					
Sulphide	250000	ug/l	UK DWS	0	< 5.0	< 5.0	< 5.0			< 100	< 100	< 100	< 100		< 5.0	< 5.0	< 5.0					
Chloride	250	mg/l	UK DWS	0	14	15	14			63.41	55.21	55.42	61		63	60	67					
Fluoride	1500	ug/l	UK DWS	0	170	170	120			< 100	140	140	340		150	120	170					
Ammoniacal Nitrogen as N	390	ug/l	UK DWS	22	31	< 15	40			< 20	< 20	< 20	< 20		180	31	< 15					
Nitrate as N	11.3	mg/l	UK DWS	1	0.26	1.88	1.68								6.08	8.6	6.5					
Nitrate as NO3	50	mg/l	UK DWS	2	1.14	8.31	7.42			32.19	28.68	33.5	29.38		26.9	38.1	28.8					
Nitrite as N	160	ug/l	UK DWS	4	18	17	20								34	18	9.8					
Nitrite as NO2	500	ug/l	UK DWS	4	58	56	66			< 100	< 100	< 100	< 100		110	61	32					
Alkalinity	N/A	mg/l	-	0	240	250	390			331	347	314	298		500	490	570					
Chemical Oxygen Demand (COD)	N/A	mg/l	-	0	11	25	3.3	13							4.5	7.4	< 2.0					
Biological Oxygen Demand (BOD)	N/A	mg/l	-	0	< 1.0	3.8	< 1.0	6							-	< 1.0	< 1.0					
Total Oxidised N (Nitrate/-ite)	11.3	mg/l	UK DWS	2	< 0.3	1.9	1.7			7.3	6.5	7.6	6.6		6.1	8.6	6.5					
Total Suspended Solids	N/A	mg/l	-	0	1900	1700	460			1962	4979	2455	902		25	37	4					
Hardness - Total	N/A	mg/l	-	0	271	359	299			418	449	433	442		352	420	445					
Bromide	N/A	mg/l	-	0	0.052	0.063	0.062								0.36	0.31	0.43					
Bromate	0.01	mg/l	UK DWS	0	< 0.002	< 0.002	< 0.002								< 0.002	< 0.002	< 0.002					
Phenols																						
Catechol	7.7	ug/l	FEQS	0	< 0.5	< 0.5	< 0.5								< 0.5	< 0.5	< 0.5					
Resorcinol	7.7	ug/l	FEQS	0	< 0.5	< 0.5	< 0.5	< 10							< 0.5	< 0.5	< 0.5					
Ethylphenol & Dimethylphenol	100	ug/l	FEQS	0	< 0.5	< 0.5	< 0.5	< 10							< 0.5	< 0.5	< 0.5					
Cresols	100	ug/l	FEQS	0	< 0.5	< 0.5	< 0.5	< 10							< 0.5	< 0.5	< 0.5					
Naphthols	7.7	ug/l	FEQS	0	< 0.5	< 0.5	< 0.5								< 0.5	< 0.5	< 0.5					
Isopropylphenol	7.7	ug/l	FEQS	0	< 0.5	< 0.5	< 0.5								< 0.5	< 0.5	< 0.5					
Phenol	7.7	ug/l	FEQS	0	< 0.5	< 0.5	< 0.5	< 10							< 0.5	< 0.5	< 0.5					
Trimethylphenol	100	ug/l	FEQS	0	< 0.5	< 0.5	< 0.5								< 0.5	< 0.5	< 0.5					
Speciated PAHs																						
Naphthalene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 1	< 0.01	< 0.01	< 0.01	0.01	0.73	< 0.01	< 0.01	< 0.01					
Acenaphthylene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 1	< 0.01	< 0.01	< 0.01	< 0.01	0.01	< 0.01	< 0.01	< 0.01					
Acenaphthene	2000	ug/l	USEPA	0	< 0.01	< 0.01	< 0.01	< 0.01	< 1	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01					
Fluorene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 1	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01					
Phenanthrene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 1	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01					
Anthracene	0.1	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 1	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01					
Fluoranthene	0.0063	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 1	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01					
Pyrene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 1	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01					
Benzo(a)anthracene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 1	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01					
Chrysene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 1	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01					
Benzo(b)fluoranthene	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 1	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01					
Benzo(k)fluoranthene	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 1	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01					
Benzo(a)pyrene	0.01	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 1	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01					
Indeno(1,2,3-cd)pyrene	0.1	ug/l	UK DWS	0	< 0.001	< 0.001	< 0.001	< 0.01	< 1	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001					
Dibenzo(a,h)anthracene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 1	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01					
Benzo(g,h,i)perylene	0.1	ug/l	UK DWS	0	< 0.001	< 0.001	< 0.001	< 0.01	< 1	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001					
Heavy metals and metalloids																						

Appendix G

G9 Groundwater Downgradient

Assessment Scenario

Water Abstraction

					Summary																
Lab Sample ID	Screening value	Units	Screening standard	Number of Exceedances	1131835	1163609	1182060	ARP16-CP-BH32	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	944661	960431	981285			
Client Sample No					ARP16-CP-BH32	ARP16-CP-BH32	ARP16-CP-BH32	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50
Client Sample ID					None Supplied														None Supplied	None Supplied	None Supplied
Depth to Top					27.16-41.95	None Supplied	None Supplied	None Supplied	16/01/1900	16/01/1900	16/01/1900	17/01/1900	17/01/1900	16/01/1900	17/01/1900	16/01/1900	17/01/1900	17/01/1900	None Supplied	None Supplied	None Supplied
Depth to Bottom						None Supplied	27.92-41.22												None Supplied	None Supplied	
Date Sampled					15/01/2019	22/02/2019	20/03/2019		16/11/16	23/11/16	01/12/16	03/02/17	07/03/17	04/04/17	17/05/17	16/04/2018	14/05/2018	13/06/2018			
Sample Type	None Supplied																	None Supplied			
Antimony	5	ug/l	UK DWS	0	< 0.4	< 0.4	< 0.4					< 1	< 1	< 1	< 1	< 0.4	< 0.4	< 0.4			
Arsenic	10	ug/l	UK DWS	0	0.28	< 0.15	0.29	< 1				< 1	< 1	< 1	< 1	0.27	0.16	0.28			
Barium	700	ug/l	WHO	0	30	38	29	134								160	150	190			
Beryllium	4	ug/l	USEPA	0	< 0.1	< 0.1	< 0.1	< 1				< 1	< 1	< 1	< 1	< 0.1	< 0.1	< 0.1			
Boron	1000	ug/l	UK DWS	1	< 10	14	< 10	207								210	190	230			
Cadmium >200mg/l CaCO3	5	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02	< 0.2				< 0.2	< 0.2	< 0.2	< 0.2	< 0.02	< 0.02	< 0.02			
Calcium	N/A	mg/l	-	0	110	140	120					163	175	170	173	140	160	170			
Chromium VI	3.4	ug/l	FEQS	2	< 5.0	< 5.0	< 5.0	< 10								< 5.0	< 5.0	< 5.0			
Chromium III	4.7	ug/l	FEQS	0	< 1.0	1.1	< 1.0									1.3	1.3	1.1			
Chromium Total	50	ug/l	UK DWS	0	1	1.1	0.9	< 1				< 1	< 1	< 1	7	1.3	1.3	1.1			
Copper (bioavailable), DOC <1mg/l	2000	ug/l	UK DWS	0	1	3.5	1.5	1				1	< 1	< 1	1	1.8	1.6	2.6			
Iron	0.2	mg/l	UK DWS	2	< 0.004	0.047	< 0.004					0.036	< 0.01	< 0.01	< 0.01	0.006	0.006	< 0.004			
Lead	10	ug/l	UK DWS	0	< 0.2	< 0.2	< 0.2	< 1				< 1	< 1	< 1	< 1	< 0.2	< 0.2	0.2			
Magnesium	N/A	mg/l	-	0	1.6	1.4	1.6					2	3	2	2	2.4	2.5	2.3			
Manganese (bioavailable)	50	ug/l	UK DWS	26	0.71	0.25	1.2					6	2	2	2	6.1	3.4	2			
Mercury	1	ug/l	UK DWS	2	0.35	0.33	0.2	< 0.1				< 0.1	< 0.1	< 0.1	< 0.1	0.07	< 0.05	< 0.05			
Molybdenum	70	ug/l	WHO	0	0.23	0.15	1.6									0.14	2.2	0.09			
Nickel >200 mg/l CaCO3	20	ug/l	UK DWS	2	0.7	< 0.5	0.6	2				2	2	2	2	2.1	3.3	2.1			
Potassium	N/A	mg/l	-	0	0.8	0.68	0.76					< 1	1	< 1	< 1	0.85	0.94	0.89			
Selenium	10	ug/l	UK DWS	0	< 0.6	< 0.6	< 0.6	< 1				< 1	< 1	< 1	< 1	1.3	1.3	0.8			
Sodium	50	mg/l	WHO	26	7.7	9.2	8					29	29	27	29	27	30	31			
Vanadium	20	ug/l	FEQS	0	0.3	0.3	0.3	< 1				< 1	< 1	< 1	< 1	0.5	0.4	0.5			
Zinc >250 mg/l CaCO3	5000	ug/l	USEPA	0	2.5	6.4	2.1	8				14	3	2	8	2.6	6	1.8			
Monoaromatics																					
Benzene	1	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1				< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0			
Toluene	74	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1				< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0			
Ethylbenzene	20	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1				< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0			
Xylenes	30	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1								< 1.0	< 1.0	< 1.0			
MTBE	15	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1								< 1.0	< 1.0	< 1.0			
Petroleum hydrocarbons																					
TPH	N/A	ug/l	-	0				< 5													
TPH >C5-C6 Aliphatics	15000	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1								< 1.0	< 1.0	< 1.0			
TPH >C6-C8 Aliphatics	15000	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1								< 1.0	< 1.0	< 1.0			
TPH >C8-C10 Aliphatics	300	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1								< 1.0	< 1.0	< 1.0			
TPH >C10-C12 Aliphatics	300	ug/l	WHO	0	< 10	< 10	< 10	< 5								< 10	< 10	< 10			
TPH >C12-C16 Aliphatics	300	ug/l	WHO	0	< 10	< 10	< 10	< 5								< 10	< 10	< 10			
TPH >C16-C21 Aliphatics	300	ug/l	WHO	0	< 10	< 10	< 10	< 5								< 10	< 10	< 10			
TPH >C21-C35 Aliphatics	300	ug/l	WHO	0	< 10	< 10	< 10	< 5								< 10	< 10	< 10			
TPH-CWG - Aliphatic >C16 - C35	300	ug/l	WHO	0	< 10	< 10	< 10									< 10	< 10	< 10			
TPH-CWG - Aliphatic >C35 - C44	300	ug/l	WHO	0	< 10	< 10	< 10									< 10	< 10	< 10			
C5-C35 Aliphatics	N/A	ug/l	-	0	< 10	< 10	< 10									< 10	< 10	< 10			
TPH-CWG - Aliphatic (C5 - C44)	N/A	ug/l	-	0	< 10	< 10	< 10									< 10	< 10	< 10			
TPH >C5-C6 Aromatics	10	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1								< 1.0	< 1.0	< 1.0			
TPH >C7-C8 Aromatics	700	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1								< 1.0	< 1.0	< 1.0			
TPH >C8-C9 Aromatics	300	ug/l	WHO	0				< 1													
TPH >C9-C10 Aromatics	300	ug/l	WHO	0				< 1													
TPH >C8-C10 Aromatics	300	ug/l	WHO	0	< 1.0	< 1.0	< 1.0									< 1.0	< 1.0	< 1.0			
TPH >C10-C12 Aromatics	90	ug/l	WHO	0	< 10	< 10	< 10					< 5				< 10	< 10	< 10			
TPH >C12-C16 Aromatics	90	ug/l	WHO	0	< 10	< 10	< 10					< 5				< 10	< 10	< 10			
TPH >C16-C21 Aromatics	90	ug/l	WHO	0	< 10	< 10	< 10					< 5				< 10	< 10	< 10			
TPH >C21-C35 Aromatics	90	ug/l	WHO	0	< 10	< 10	< 10					< 5				< 10	< 10	< 10			
TPH >C35-C44 Aromatics	90	ug/l	WHO	0	< 10	< 10	< 10									< 10	< 10	< 10			

Appendix G G9 Groundwater Downgradient

Assessment Scenario

Water Abstraction

					Summary															
Lab Sample ID	Screening value	Units	Screening standard	Number of Exceedances	1131835	1163609	1182060								944661	960431	981285			
Client Sample No					ARP16-CP-BH32	ARP16-CP-BH32	ARP16-CP-BH32	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50
Client Sample ID					None Supplied													None Supplied	None Supplied	None Supplied
Depth to Top					27.16-41.95	None Supplied	None Supplied	None Supplied	16/01/1900	16/01/1900	16/01/1900	17/01/1900	17/01/1900	16/01/1900	17/01/1900	16/01/1900	17/01/1900	None Supplied	None Supplied	None Supplied
Depth to Bottom						None Supplied	27.92-41.22											None Supplied	None Supplied	
Date Sampled					15/01/2019	22/02/2019	20/03/2019	16/11/16	23/11/16	01/12/16	03/02/17	07/03/17	04/04/17	17/05/17	16/04/2018	14/05/2018	13/06/2018			
Sample Type	None Supplied															None Supplied				
C5-C35 Aromatics	N/A	ug/l	-	0	< 10	< 10	< 10								< 10	< 10	< 10			
C5-C35 Aromatics	N/A	ug/l	-	0	< 10	< 10	< 10								< 10	< 10	< 10			
VOCs																				
Chloromethane	20	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 10			< 10	< 10	< 10	< 10	< 1.0	< 1.0	< 1.0			
Chloroethane	3	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1			< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0			
Bromomethane	100	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1			< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0			
Vinyl Chloride	0.5	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1			< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0			
Trichlorofluoromethane	2.5	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1			< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0			
1,1-Dichloroethene	7	ug/l	USEPA	0	< 1.0	< 1.0	< 1.0	< 1			< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	400	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0							< 1.0	< 1.0	< 1.0				
Cis-1,2 Dichloroethene	50	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1			< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0			
MTBE	15	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1						< 1.0	< 1.0	< 1.0				
1,1 -Dichloroethane	3	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1			< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0			
2,2-Dichloropropane	40	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1			< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0			
Trichloromethane	2.5	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1			< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0			
1,1,1-Trichloroethane	100	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1			< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0			
1,2-Dichloroethane	3	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 2			< 2	< 2	< 2	< 2	< 1.0	< 1.0	< 1.0			
1,1-Dichloropropene	20	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1			< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0			
Trans-1,2 Dichloroethene	50	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1			< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0			
Benzene	1	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1			< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0			
Tetrachloromethane	3	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1			< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0			
1,2-Dichloropropane	40	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1			< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0			
Trichloroethene	10	ug/l	UK DWS	2	< 1.0	< 1.0	< 1.0	< 1			1	1	1	1	< 1.0	< 1.0	< 1.0			
Dibromomethane	100	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1			< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0			
Bromodichloromethane	100	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 10			< 10	< 10	< 10	< 10	< 1.0	< 1.0	< 1.0			
Cis-1,3 Dichloropropene	20	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1			< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0			
Trans-1,3 Dichloropropene	20	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1			< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0			
Toluene	74	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0							< 1.0	< 1.0	< 1.0				
1,1,2-Trichloroethane	400	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1			< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0			
1,3-Dichloropropane	40	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1			< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0			
Dibromochloromethane	100	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 3			< 3	< 3	< 3	< 3	< 1.0	< 1.0	< 1.0			
Tetrachloroethene	10	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1			< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0			
1,2-Dibromoethane	0.4	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1			< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0			
Chlorobenzene	0.4	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1			< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0			
1,1,1,2-Tetrachloroethane	400	ug/l	USEPA	0	< 1.0	< 1.0	< 1.0	< 1			< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0			
Ethylbenzene	20	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0							< 1.0	< 1.0	< 1.0				
m,p-Xylenes	30	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1			< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0			
Styrene	20	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1			< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0			
Tribromomethane	#####	ug/l	Default	0	< 1.0	< 1.0	< 1.0							< 1.0	< 1.0	< 1.0				
o-Xylene	30	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1			< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0			
1,1,2,2-Tetrachloroethane	400	ug/l	USEPA	0	< 1.0	< 1.0	< 1.0	< 1			< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0			
Iso-propylbenzene	1	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1			< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0			
Bromobenzene	1	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1			< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0			
Propylbenzene	1	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1			< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0			
2-Chlorotoluene	700	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1			< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0			
4-Chlorotoluene	700	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1			< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0			
1,3,5 Trimethylbenzene	1	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1			< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0			
tert-Butylbenzene	1	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 2			< 2	< 2	< 2	< 2	< 1.0	< 1.0	< 1.0			
1,2,4 Trimethylbenzene	1	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1			< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0			
sec-Butylbenzene	1	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1			< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0			
1,3 Dichlorobenzene	3000	ug/l	USEPA	0	< 1.0	< 1.0	< 1.0	< 1			< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0			
p-Isopropyltoluene	74	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1			< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0			
1,2-Dichlorobenzene	1000	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1			< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0			

Appendix G

G9 Groundwater Downgradient

Assessment Scenario

Water Abstraction

					Summary															
Lab Sample ID	Screening value	Units	Screening standard	Number of Exceedances	1131835	1163609	1182060								944661	960431	981285			
Client Sample No					ARP16-CP-BH32	ARP16-CP-BH32	ARP16-CP-BH32	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50
Client Sample ID					None Supplied													None Supplied	None Supplied	None Supplied
Depth to Top					27.16-41.95	None Supplied	None Supplied	16/01/1900	16/01/1900	16/01/1900	17/01/1900	17/01/1900	16/01/1900	17/01/1900	16/01/1900	17/01/1900	None Supplied	None Supplied	None Supplied	
Depth to Bottom						None Supplied	27.92-41.22										None Supplied	None Supplied		
Date Sampled					15/01/2019	22/02/2019	20/03/2019	16/11/16	23/11/16	01/12/16	03/02/17	07/03/17	04/04/17	17/05/17	16/04/2018	14/05/2018	13/06/2018			
Sample Type	None Supplied																None Supplied			
1,4 Dichlorobenzene	300	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0			
n-Butylbenzene	1	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0			
1,2-Dibromo-3-chloropropane	1	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 2		< 2	< 2	< 2	< 2	< 2	< 1.0	< 1.0	< 1.0			
1,2,4-Trichlorobenzene	70	ug/l	USEPA	0	< 1.0	< 1.0	< 1.0	< 3		< 3	< 3	< 3	< 3	< 3	< 1.0	< 1.0	< 1.0			
Hexachlorobutadiene	0.6	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0			
2,6 Chloronitrotoluene	700	ug/l	WHO	0	< 1	< 1	< 1								< 1	< 1	< 1			
4,2 Chloronitrotoluene	700	ug/l	WHO	0	< 1	< 1	< 1								< 1	< 1	< 1			
4,3 Chloronitrotoluene	700	ug/l	WHO	0	< 1	< 1	< 1								< 1	< 1	< 1			
2,4 Chloronitrotoluene	700	ug/l	WHO	0	< 1	< 1	< 1								< 1	< 1	< 1			
2,5 Chloronitrotoluene	700	ug/l	WHO	0	< 1	< 1	< 1								< 1	< 1	< 1			
1,2,3-Trichlorobenzene	0.4	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 3		< 3	< 3	< 3	< 3	< 3	< 1.0	< 1.0	< 1.0			
1,2,3-Trichloropropane	40	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0			
1,3,5-Trichlorobenzene	0.4	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0								< 1.0	< 1.0	< 1.0			
Bromochloromethane	100	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 5		< 5	< 5	< 5	< 5	< 5	< 1.0	< 1.0	< 1.0			
Dichloromethane	20	ug/l	FEQS	0	< 100	< 3.0	< 3.0	< 5		< 5	< 5	< 5	< 5	< 5	< 100	< 100	< 100			
Carbon disulphide	#####	ug/l	Default	0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0			
Dichlorodifluoromethane	20	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0			
SVOCS																				
Phenol	7.7	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05	< 0.05			
2-Chlorophenol	50	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05	< 0.05			
Bis(2-chloroethyl)ether	1000	ug/l	USEPA	0	< 0.05	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05	< 0.05			
Bis(2-chloroisopropyl)ether	1000	ug/l	USEPA	0	< 0.05	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05	< 0.05			
2-Methylphenol	100	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05	< 0.05			
Hexachloroethane	40	ug/l	USEPA	0	< 0.05	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05	< 0.05			
Nitrobenzene	1	ug/l	UK DWS	0	< 0.05	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05	< 0.05			
4-Methylphenol	100	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05	< 0.05			
Isophorone	7000	ug/l	USEPA	0	< 0.05	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05	< 0.05			
2-Nitrophenol	7.7	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05	< 0.05			
2,4-Dimethylphenol	100	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05	< 0.05			
Bis(2-chloroethoxy)methane	#####	ug/l	Default	0	< 0.05	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05	< 0.05			
2,4-Dichlorophenol	4.2	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05	< 0.05			
4-Chloro-3-methylphenol	40	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05	< 0.05			
2,4,6-trichlorophenol	200	ug/l	WHO	0	< 0.05	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05	< 0.05			
2,4,5-Trichlorophenol	200	ug/l	WHO	0	< 0.05	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05	< 0.05			
2-Methylnaphthalene	2	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05	< 0.05			
2-Chloronaphthalene	2	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05	< 0.05			
Dimethylphthalate	800	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05	< 0.05			
2,6-Dinitrotoluene	100	ug/l	USEPA	0	< 0.05	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05	< 0.05			
2,4-Dinitrotoluene	100	ug/l	USEPA	0	< 0.05	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05	< 0.05			
Dibenzofuran	2	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05	< 0.05			
Diethyl phthalate	200	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05	< 0.05			
Bromophenyl phenyl ether	#####	ug/l	Default	0	< 0.05	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05	< 0.05			
Hexachlorobenzene	1	ug/l	USEPA	0	< 0.05	< 0.05	< 0.05	< 1	< 1		< 1	< 0.01	< 1		< 0.05	< 0.05	< 0.05			
Phenanthrene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01								< 0.01	< 0.01	< 0.01			
Carbazole	2	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05	< 0.05			
Di-n-butyl phthalate	8	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05	< 0.05			
Butyl benzyl phthalate	7.5	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05	< 0.05			
PCBs by GC-ECD - WHO 12																				
PCB Congener 77	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020			< 0.001					< 0.020	< 0.020	< 0.020			
PCB Congener 81	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020			< 0.001					< 0.020	< 0.020	< 0.020			
PCB Congener 105	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020			< 0.001					< 0.020	< 0.020	< 0.020			
PCB Congener 114	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020			< 0.001					< 0.020	< 0.020	< 0.020			
PCB Congener 118	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020			< 0.002					< 0.020	< 0.020	< 0.020			

Appendix G

G9 Groundwater Downgradient

Assessment Scenario

Water Abstraction

					Summary															
Lab Sample ID	Screening value	Units	Screening standard	Number of Exceedances	1131835	1163609	1182060								944661	960431	981285			
Client Sample No					ARP16-CP-BH32	ARP16-CP-BH32	ARP16-CP-BH32	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50
Client Sample ID					None Supplied													None Supplied	None Supplied	None Supplied
Depth to Top					27.16-41.95	None Supplied	None Supplied	16/01/1900	16/01/1900	16/01/1900	17/01/1900	17/01/1900	16/01/1900	17/01/1900	16/01/1900	17/01/1900	None Supplied	None Supplied	None Supplied	
Depth to Bottom						None Supplied	27.92-41.22										None Supplied	None Supplied		
Date Sampled	15/01/2019	22/02/2019	20/03/2019	16/11/16	23/11/16	01/12/16	03/02/17	07/03/17	04/04/17	17/05/17	16/04/2018	14/05/2018	13/06/2018							
Sample Type	None Supplied																None Supplied			
PCB Congener 123	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020			< 0.001				< 0.020	< 0.020	< 0.020				
PCB Congener 126	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020			< 0.001				< 0.020	< 0.020	< 0.020				
PCB Congener 156	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020			< 0.001				< 0.020	< 0.020	< 0.020				
PCB Congener 157	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020			< 0.001				< 0.020	< 0.020	< 0.020				
PCB Congener 167	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020			< 0.001				< 0.020	< 0.020	< 0.020				
PCB Congener 169	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020			< 0.001				< 0.020	< 0.020	< 0.020				
PCB Congener 189	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020			< 0.001				< 0.020	< 0.020	< 0.020				
PCBs	25	ug/l	FEQS	0	< 0.300	< 0.300	< 0.300							< 0.300	< 0.300	< 0.300				
Environmental Forensics																				
PFOS	0.3	ug/l	DWS	1	0.09	< 0.05	0.16							0.07	0.08	0.05				
PFOS	0.3	ug/l	DWS	0																
PFOA	0.3	ug/l	DWS	0	0.06	0.06	0.08							< 0.05	< 0.05	< 0.05				
Metaldehyde	0.1	ug/l	UK DWS	20	< 0.1	< 0.1	< 0.2							< 0.1	0.1	< 0.1				
Chloronitrotoluenes (sum)	10	ug/l	FEQS	0	< 0.1	< 0.1	< 0.1							< 0.1	< 0.1	< 0.1				
Chlorbufam	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10		< 1.0					< 0.10	< 0.10	< 0.10				
Chloroxuron	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10		< 0.1					< 0.10	< 0.10	< 0.10				
Chlorpropham	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10		< 1.0					< 0.10	< 0.10	< 0.10				
Ethiofencarb	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10		< 0.1					< 0.10	< 0.10	< 0.10				
Phenmedipham	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10		< 0.1					< 0.10	< 0.10	< 0.10				
Propham	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10		< 0.1					< 0.10	< 0.10	< 0.10				
Dimefuron	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10		< 0.1					< 0.10	< 0.10	< 0.10				
Metoxuron	0.1	ug/l	UK DWS	1	< 0.10	< 0.10	< 0.2		< 0.1					< 0.10	< 0.10	< 0.10				
Pencycuron	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10		< 0.1					< 0.10	< 0.10	< 0.10				
o,p-Methoxychlor	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01		< 0.01					< 0.01	< 0.01	< 0.01				
Demeton-s-methyl	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10							< 0.10	< 0.10	< 0.10				
Diclofop	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02		< 0.02					< 0.02	< 0.02	< 0.02				
Fenvalerate	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10		< 0.1					< 0.10	< 0.10	< 0.10				
Cyhalothrin	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10		< 0.1					< 0.10	< 0.10	< 0.10				
Ametryn	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10				< 0.1			< 0.10	< 0.10	< 0.10				
Atrazine-methoxy	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10		< 0.1					< 0.10	< 0.10	< 0.10				
Bromacil	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02				< 0.02			< 0.02	< 0.02	0.05				
Flamprop	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02		< 0.02					< 0.02	< 0.02	< 0.02				
Flamprop-isopropyl	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02		< 0.02					< 0.02	< 0.02	< 0.02				
Prometon	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10		< 0.1					< 0.10	< 0.10	< 0.10				
Simetryn	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10		< 0.1					< 0.10	< 0.10	< 0.10				
4-Nitrophenol	7.7	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.05				
Hexachlorocyclopentadiene	50	ug/l	USEPA	0	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1				
Perylene	2	ug/l	FEQS	0	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1				
n-Nitroso-n-dipropylamine	0.1	ug/l	UK DWS	0	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1				
Carbamates																				
Pirimicarb	100	ng/l	UK DWS	0	< 20	< 20	< 20		< 0.1					< 20	< 20	< 20				
Carbetamide	100	ng/l	UK DWS	0	< 20	< 20	< 200.00		< 0.1					< 20	< 20	< 20				
Phthalates																				
Bis(2-ethylhexyl)phthalate	8	ug/l	WHO	0	< 1.0	< 1.0	< 1.0		< 2	< 2	< 2	< 2	< 10	< 1.0	< 1.0	< 1.0				
Di-n-octyl phthalate	20	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0		< 10	< 10	< 10	< 10	< 10	< 1.0	< 1.0	< 1.0				
Total phthalates	N/A	mg/l	-	0																
Glycols																				
Ethylene Glycol	ISSUE	mg/l	Default	0	< 10	< 10	< 10							< 10	< 10	< 10				
Diethylene Glycol	ISSUE	mg/l	Default	0	< 10	< 10	< 10							< 10	< 10	< 10				
1,2-Propanediol	ISSUE	mg/l	Default	0	< 10	< 10	< 10							< 10	< 10	< 10				
Rodenticides																				
Triazine Pesticides																				

Appendix G

G9 Groundwater Downgradient

Assessment Scenario

Water Abstraction

					Summary															
Lab Sample ID	Screening value	Units	Screening standard	Number of Exceedances	1131835	1163609	1182060								944661	960431	981285			
Client Sample No					ARP16-CP-BH32	ARP16-CP-BH32	ARP16-CP-BH32	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50
Client Sample ID					None Supplied													None Supplied	None Supplied	None Supplied
Depth to Top					27.16-41.95	None Supplied	None Supplied	None Supplied	16/01/1900	16/01/1900	16/01/1900	17/01/1900	17/01/1900	16/01/1900	17/01/1900	16/01/1900	17/01/1900	None Supplied	None Supplied	None Supplied
Depth to Bottom						None Supplied	27.92-41.22											None Supplied	None Supplied	
Date Sampled					15/01/2019	22/02/2019	20/03/2019	16/11/16	23/11/16	01/12/16	03/02/17	07/03/17	04/04/17	17/05/17	16/04/2018	14/05/2018	13/06/2018			
Sample Type	None Supplied																None Supplied			
Atrazine	0.1	ug/l	UK DWS	18	0.07	0.07	0.07								0.09	0.08	0.08			
Simazine	0.1	ug/l	UK DWS	0	< 0.05	< 0.05	< 0.05								< 0.05	< 0.05	< 0.05			
Prometryn	0.1	ug/l	UK DWS	0	< 0.05	< 0.05	< 0.05								< 0.05	< 0.05	< 0.05			
Propazine	0.1	ug/l	UK DWS	0	< 0.05	< 0.05	< 0.05								< 0.05	< 0.05	< 0.05			
Terbutylazine	0.1	ug/l	UK DWS	0	< 0.05	< 0.05	< 0.05								< 0.05	< 0.05	< 0.05			
Terbutryn	0.1	ug/l	UK DWS	0	< 0.05	< 0.05	< 0.05								< 0.05	< 0.05	< 0.05			
Acid herbicides esters																				
2,4-D Methyl Ester	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02								< 0.02	< 0.02	< 0.02			
2,4-D butyl ester	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10								< 0.10	< 0.10	< 0.10			
2,4-D ethyl ester	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10								< 0.10	< 0.10	< 0.10			
2,4-D isobutyl ester	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10								< 0.10	< 0.10	< 0.10			
2,4-D isopropyl ester	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10								< 0.10	< 0.10	< 0.10			
Acid Herbicides																				
2,3,6-TBA	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02								< 0.02	< 0.02	< 0.02			
Benazolin	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02								< 0.02	< 0.02	< 0.02			
Bromoxynil	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02								< 0.02	< 0.02	< 0.02			
Clopyralid	0.1	ug/l	UK DWS	0	< 0.20	< 0.20	< 0.02								< 0.02	< 0.02	< 0.02			
Ioxynil	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02								< 0.02	< 0.02	< 0.02			
2,4,5-T	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02								< 0.02	< 0.02	< 0.02			
2,4,5-TP	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02								< 0.02	< 0.02	< 0.02			
2,4-D	0.1	ug/l	UK DWS	1	< 0.02	< 0.02	< 0.02								< 0.02	< 0.02	< 0.02			
2,4-DB	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02								< 0.02	< 0.02	< 0.02			
Dicamba	0.1	ug/l	UK DWS	1	< 0.02	< 0.02	< 0.02								< 0.02	< 0.02	< 0.02			
Dichlorprop	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02								< 0.02	< 0.02	< 0.02			
MCPA	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02								< 0.02	< 0.02	< 0.02			
MCPB	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02								< 0.02	< 0.02	< 0.02			
Mecoprop	0.1	ug/l	UK DWS	15	< 0.02	< 0.02	< 0.02								< 0.02	< 0.02	< 0.02			
Picloram	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02								< 0.02	< 0.02	< 0.02			
4-Chlorophenoxyacetic acid	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02								< 0.02	< 0.02	< 0.02			
Organochlorine Pesticides																				
Aldrin	0.03	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01								< 0.01	< 0.01	< 0.01			
alpha-HCH (alpha-BHC)	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01								< 0.01	< 0.01	< 0.01			
beta-HCH (beta-BHC)	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01								< 0.01	< 0.01	< 0.01			
delta-HCH (delta-BHC)	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01								< 0.01	< 0.01	< 0.01			
Dieldrin	0.03	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01								< 0.01	< 0.01	0.02			
Endosulfan	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01								< 0.01	< 0.01	< 0.01			
Endosulfan	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01								< 0.01	< 0.01	< 0.01			
Endosulfan Sulphate	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01								< 0.01	< 0.01	< 0.01			
Endrin	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01								< 0.01	< 0.01	< 0.01			
gamma-HCH (gamma-BHC)	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01								< 0.01	< 0.01	< 0.01			
Heptachlor	0.03	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01								< 0.01	< 0.01	< 0.01			
Heptachlor Epoxide	0.03	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01								< 0.01	< 0.01	< 0.01			
Isodrin	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01								< 0.01	< 0.01	< 0.01			
Methoxychlor	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01								< 0.01	< 0.01	< 0.01			
o,p-DDE	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01								< 0.01	< 0.01	< 0.01			
DDT	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01								< 0.01	< 0.01	< 0.01			
o,p-TDE (o,p-DDD)	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01								< 0.01	< 0.01	< 0.01			
p,p-DDE	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01								< 0.01	< 0.01	< 0.01			
DDT	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01								< 0.01	< 0.01	< 0.01			
p,p-TDE (o,p-DDD)	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01								< 0.01	< 0.01	< 0.01			
Trifluralin	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01								< 0.01	< 0.01	< 0.01			
Organonitrogen pesticides																				
Bentazone	0.1	ug/l	UK DWS	1	< 0.02	< 0.02	< 0.02								< 0.02	< 0.02	< 0.02			

Appendix G G9 Groundwater Downgradient

Assessment Scenario

Water Abstraction

					Summary															
Lab Sample ID	Screening value	Units	Screening standard	Number of Exceedances	1131835	1163609	1182060								944661	960431	981285			
Client Sample No					ARP16-CP-BH32	ARP16-CP-BH32	ARP16-CP-BH32	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50
Client Sample ID					None Supplied													None Supplied	None Supplied	None Supplied
Depth to Top					27.16-41.95	None Supplied	None Supplied	16/01/1900	16/01/1900	16/01/1900	17/01/1900	17/01/1900	16/01/1900	17/01/1900	17/01/1900	17/01/1900	17/01/1900	None Supplied	None Supplied	None Supplied
Depth to Bottom						None Supplied	27.92-41.22											None Supplied	None Supplied	
Date Sampled					15/01/2019	22/02/2019	20/03/2019	16/11/16	23/11/16	01/12/16	03/02/17	07/03/17	04/04/17	17/05/17	16/04/2018	14/05/2018	13/06/2018			
Sample Type	None Supplied																None Supplied			
Chlorpyrifos	0.0001	mg/l	UK DWS	0					< 0.00001											
Pendimethalin	0.0001	mg/l	UK DWS	0					< 0.00001											
Bromoform	0.1	mg/l	WHO	0				< 0.001			< 0.001	< 0.001	< 0.001	< 0.001						
Methane	N/A	ug/l	-	0		< 0.1	< 0.1				1	< 1	< 2	< 2						

Appendix G

G9 Groundwater Downgradient

Assessment Scenario

Water Abstraction

				Summary																	
Lab Sample ID	Screening value	Units	Screening standard	Number of Exceedances	997700	1020263	1052139	1074205	1096406	1106502	1131834	1160661	1182061								
Client Sample No					ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH51	ARP16-CP-BH51	ARP16-CP-BH51	ARP16-CP-BH51	
Client Sample ID					None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth to Top					13.36-23.46	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	21/01/1900	21/01/1900	21/01/1900	22/01/1900
Depth to Bottom																					
Date Sampled					09/07/2018	08/08/2018	24/09/2018	23/10/2018	21/11/2018	03/12/2018	15/01/2019	20/02/2019	20/03/2019	16/11/16	22/11/16	01/12/16	03/02/17				
Sample Type	1330	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied								
Inorganics																					
General inorganics																					
pH	N/A	pH units	-	0	6.9	7.1	7	7	7	7	7	7	7.6								
Total Cyanide	50	ug/l	UK DWS	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5			< 5				
Complex Cyanides	50	ug/l	UK DWS	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5							
Free Cyanide	50	ug/l	UK DWS	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5							
Thiocyanate as SCN	50	ug/l	UK DWS	0	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200								
Sulphate as SO4	250000	ug/l	UK DWS	0	36200	31100	32000	35000	34700	34000	34100	32400	33300				33000				
Sulphide	250000	ug/l	UK DWS	0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0				< 100				
Chloride	250	mg/l	UK DWS	0	62	62	61	65	68	64	62	66	61				32.85				
Fluoride	1500	ug/l	UK DWS	0	140	140	99	180	150	150	91	140	140				< 100				
Ammoniacal Nitrogen as N	390	ug/l	UK DWS	22	16	37	39	45	47	55	30	< 15	990				< 20				
Nitrate as N	11.3	mg/l	UK DWS	1	6.87	7.1	5.82	4.87	0.14	5.94	6	6.65	6.21								
Nitrate as NO3	50	mg/l	UK DWS	2	30.4	31.5	25.8	21.6	0.64	26.3	26.6	29.5	27.5				37.03				
Nitrite as N	160	ug/l	UK DWS	4	5.3	9.4	7	8.9	4.1	33	7.4	4	21								
Nitrite as NO2	500	ug/l	UK DWS	4	17	31	23	29	13	110	24	13	69				< 100				
Alkalinity	N/A	mg/l	-	0	560	540	680	350	390	200	400	520	450				237				
Chemical Oxygen Demand (COD)	N/A	mg/l	-	0	3	19	11	9.7	< 2.0	8.8	< 2.0	11	13	< 6							
Biological Oxygen Demand (BOD)	N/A	mg/l	-	0	-	< 1.0	I/S	< 1.0	1.6	< 1.0	< 1.0	1.7	< 1.0	< 1							
Total Oxidised N (Nitrate/ite)	11.3	mg/l	UK DWS	2	6.9	7.1	5.8	4.9	< 0.3	6	6	6.7	6.2				8.4				
Total Suspended Solids	N/A	mg/l	-	0	< 2.0	26	< 2.0	< 2.0	< 2.0	17	< 2.0	65	290				651				
Hardness - Total	N/A	mg/l	-	0	441	370	356	423	454	504	423	483	399				310				
Bromide	N/A	mg/l	-	0	0.31	0.37	0.43	0.54	0.5	0.78	0.37	0.51	0.37								
Bromate	0.01	mg/l	UK DWS	0	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002								
Phenols																					
Catechol	7.7	ug/l	FEQS	0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5								
Resorcinol	7.7	ug/l	FEQS	0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10							
Ethylphenol & Dimethylphenol	100	ug/l	FEQS	0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5								
Cresols	100	ug/l	FEQS	0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10							
Naphthols	7.7	ug/l	FEQS	0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5								
Isopropylphenol	7.7	ug/l	FEQS	0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5								
Phenol	7.7	ug/l	FEQS	0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10							
Trimethylphenol	100	ug/l	FEQS	0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5								
Speciated PAHs																					
Naphthalene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Acenaphthylene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Acenaphthene	2000	ug/l	USEPA	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Fluorene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Phenanthrene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Anthracene	0.1	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Fluoranthene	0.0063	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Pyrene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Benzo(a)anthracene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Chrysene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Benzo(b)fluoranthene	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Benzo(k)fluoranthene	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Benzo(a)pyrene	0.01	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Indeno(1,2,3-cd)pyrene	0.1	ug/l	UK DWS	0	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.01	< 0.01	< 0.01				
Dibenzo(a,h)anthracene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Benzo(g,h,i)perylene	0.1	ug/l	UK DWS	0	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.01	< 0.01	< 0.01				
Heavy metals and metalloids																					

Appendix G G9 Groundwater Downgradient

Assessment Scenario

Water Abstraction

					Summary												
Lab Sample ID	Screening value	Units	Screening standard	Number of Exceedances	997700	1020263	1052139	1074205	1096406	1106502	1131834	1160661	1182061				
Client Sample No					ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH51
Client Sample ID	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	21/01/1900	21/01/1900	21/01/1900	22/01/1900
Depth to Top	13.36-23.46	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied				
Depth to Bottom													17.80-23.60				
Date Sampled	09/07/2018	08/08/2018	24/09/2018	23/10/2018	21/11/2018	03/12/2018	15/01/2019	20/02/2019	20/03/2019	16/11/16	22/11/16	01/12/16	03/02/17				
Sample Type	1330	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied				
Antimony	5	ug/l	UK DWS	0	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	0.6	< 0.4	< 0.4				< 1
Arsenic	10	ug/l	UK DWS	0	0.69	1.3	0.63	0.19	0.32	< 0.15	0.24	0.33	< 0.15	< 1			< 1
Barium	700	ug/l	WHO	0	150	170	150	160	160	160	120	160	120	78			
Beryllium	4	ug/l	USEPA	0	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 1			< 1
Boron	1000	ug/l	UK DWS	1	220	200	200	230	210	230	180	220	220	60			
Cadmium >200mg/l CaCO3	5	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.2			< 0.2
Calcium	N/A	mg/l	-	0	170	150	140	170	180	200	170	190	160				121
Chromium VI	3.4	ug/l	FEQS	2	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10			
Chromium III	4.7	ug/l	FEQS	0	1.6	1.6	2.4	< 1.0	< 1.0	1.1	1.1	< 1.0	< 1.0				
Chromium Total	50	ug/l	UK DWS	0	1.6	1.6	2.4	0.9	< 0.2	1.1	1.1	0.7	0.5	< 1			1
Copper (bioavailable), DOC <1mg/l	2000	ug/l	UK DWS	0	1.9	6.4	4.2	0.7	< 0.5	1.1	2.3	1.6	0.7	< 1			1
Iron	0.2	mg/l	UK DWS	2	0.022	< 0.004	< 0.004	0.005	0.016	< 0.004	0.006	< 0.004	0.005				0.141
Lead	10	ug/l	UK DWS	0	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 1			< 1
Magnesium	N/A	mg/l	-	0	2.5	1.9	2	2.4	2.3	2.2	2.4	2.3	2.2				2
Manganese (bioavailable)	50	ug/l	UK DWS	26	5	1.6	4.6	0.25	0.77	0.25	0.82	2.5	0.79				13
Mercury	1	ug/l	UK DWS	2	0.25	< 0.05	0.05	0.12	0.1	< 0.05	< 0.05	< 0.05	0.06	< 0.1			< 0.1
Molybdenum	70	ug/l	WHO	0	0.11	0.53	0.48	0.06	< 0.05	0.1	0.2	0.11	0.75				
Nickel >200 mg/l CaCO3	20	ug/l	UK DWS	2	2.4	2.7	2.5	1.7	0.9	2	2.2	2.5	1.8	< 1			< 1
Potassium	N/A	mg/l	-	0	0.75	0.79	0.83	0.94	0.89	0.84	1	0.95	0.94				1
Selenium	10	ug/l	UK DWS	0	1.1	1.1	1.6	0.8	2.2	2	2.3	< 0.6	1.7	< 1			< 1
Sodium	50	mg/l	WHO	26	31	26	28	32	33	34	30	38	32				15
Vanadium	20	ug/l	FEQS	0	0.7	0.4	1.2	0.4	0.4	0.4	0.5	0.6	0.4	< 1			< 1
Zinc >250 mg/l CaCO3	5000	ug/l	USEPA	0	3.9	13	3.3	< 0.5	< 0.5	1.5	2.3	2.2	< 0.5	9			6
Monoaromatics																	
Benzene	1	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1			< 1
Toluene	74	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1			< 1
Ethylbenzene	20	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1			< 1
Xylenes	30	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0				
MTBE	15	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1			
Petroleum hydrocarbons																	
TPH	N/A	ug/l	-	0										< 5			
TPH >C5-C6 Aliphatics	15000	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1			
TPH >C6-C8 Aliphatics	15000	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1			
TPH >C8-C10 Aliphatics	300	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1			
TPH >C10-C12 Aliphatics	300	ug/l	WHO	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5			
TPH >C12-C16 Aliphatics	300	ug/l	WHO	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5			
TPH >C16-C21 Aliphatics	300	ug/l	WHO	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5			
TPH >C21-C35 Aliphatics	300	ug/l	WHO	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5			
TPH-CWG - Aliphatic >C16 - C35	300	ug/l	WHO	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10				
TPH-CWG - Aliphatic >C35 - C44	300	ug/l	WHO	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10				
C5-C35 Aliphatics	N/A	ug/l	-	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10				
TPH-CWG - Aliphatic (C5 - C44)	N/A	ug/l	-	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10				
TPH >C5-C6 Aromatics	10	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1			
TPH >C7-C8 Aromatics	700	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1			
TPH >C8-C9 Aromatics	300	ug/l	WHO	0										< 1			
TPH >C9-C10 Aromatics	300	ug/l	WHO	0										< 1			
TPH >C8-C10 Aromatics	300	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0				
TPH >C10-C12 Aromatics	90	ug/l	WHO	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5			
TPH >C12-C16 Aromatics	90	ug/l	WHO	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5			
TPH >C16-C21 Aromatics	90	ug/l	WHO	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5			
TPH >C21-C35 Aromatics	90	ug/l	WHO	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5			
TPH >C35-C44 Aromatics	90	ug/l	WHO	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10				

Appendix G

G9 Groundwater Downgradient

Assessment Scenario

Water Abstraction

Lab Sample ID	Screening value	Units	Screening standard	Summary		997700	1020263	1052139	1074205	1096406	1106502	1131834	1160661	1182061				
				Client Sample No	Number of Exceedances	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH51	ARP16-CP-BH51
Client Sample ID						None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied				
Depth to Top						13.36-23.46	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	21/01/1900	21/01/1900	21/01/1900	22/01/1900
Depth to Bottom													None Supplied	17.80-23.60				
Date Sampled						09/07/2018	08/08/2018	24/09/2018	23/10/2018	21/11/2018	03/12/2018	15/01/2019	20/02/2019	20/03/2019	16/11/16	22/11/16	01/12/16	03/02/17
Sample Type						1330	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied						
C5-C35 Aromatics	N/A	ug/l	-		0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10				
C5-C35 Aromatics	N/A	ug/l	-		0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10				
VOCs																		
Chloromethane	20	ug/l	FEQS		0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10			< 10
Chloroethane	3	ug/l	UK DWS		0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1			< 1
Bromomethane	100	ug/l	UK DWS		0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1			< 1
Vinyl Chloride	0.5	ug/l	UK DWS		0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1			< 1
Trichlorofluoromethane	2.5	ug/l	FEQS		0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1			< 1
1,1-Dichloroethene	7	ug/l	USEPA		0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1			< 1
1,1,2-Trichloro-1,2,2-trifluoroethane	400	ug/l	FEQS		0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0				
Cis-1,2 Dichloroethene	50	ug/l	WHO		0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1			< 1
MTBE	15	ug/l	WHO		0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1			< 1
1,1 -Dichloroethane	3	ug/l	UK DWS		0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1			< 1
2,2-Dichloropropane	40	ug/l	WHO		0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1			< 1
Trichloromethane	2.5	ug/l	FEQS		0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1			< 1
1,1,1-Trichloroethane	100	ug/l	FEQS		0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1			< 1
1,2-Dichloroethane	3	ug/l	UK DWS		0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2			< 2
1,1-Dichloropropene	20	ug/l	WHO		0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1			< 1
Trans-1,2 Dichloroethene	50	ug/l	WHO		0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1			< 1
Benzene	1	ug/l	UK DWS		0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1			< 1
Tetrachloromethane	3	ug/l	UK DWS		0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1			< 1
1,2-Dichloropropane	40	ug/l	WHO		0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1			< 1
Trichloroethene	10	ug/l	UK DWS		2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1			< 1
Dibromomethane	100	ug/l	UK DWS		0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1			< 1
Bromodichloromethane	100	ug/l	UK DWS		0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10			< 10
Cis-1,3 Dichloropropene	20	ug/l	WHO		0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1			< 1
Trans-1,3 Dichloropropene	20	ug/l	WHO		0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1			< 1
Toluene	74	ug/l	FEQS		0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0				
1,1,2-Trichloroethane	400	ug/l	FEQS		0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1			< 1
1,3-Dichloropropane	40	ug/l	WHO		0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1			< 1
Dibromochloromethane	100	ug/l	WHO		0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 3			< 3
Tetrachloroethene	10	ug/l	UK DWS		0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1			< 1
1,2-Dibromoethane	0.4	ug/l	WHO		0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1			< 1
Chlorobenzene	0.4	ug/l	FEQS		0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1			< 1
1,1,1,2-Tetrachloroethane	400	ug/l	USEPA		0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1			< 1
Ethylbenzene	20	ug/l	FEQS		0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0				
m,p-Xylenes	30	ug/l	FEQS		0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1			< 1
Styrene	20	ug/l	WHO		0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1			< 1
Tribromomethane	#####	ug/l	Default		0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0				
o-Xylene	30	ug/l	FEQS		0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1			< 1
1,1,2,2-Tetrachloroethane	400	ug/l	USEPA		0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1			< 1
Iso-propylbenzene	1	ug/l	UK DWS		0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1			< 1
Bromobenzene	1	ug/l	UK DWS		0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1			< 1
Propylbenzene	1	ug/l	UK DWS		0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1			< 1
2-Chlorotoluene	700	ug/l	WHO		0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1			< 1
4-Chlorotoluene	700	ug/l	WHO		0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1			< 1
1,3,5 Trimethylbenzene	1	ug/l	UK DWS		0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1			< 1
tert-Butylbenzene	1	ug/l	UK DWS		0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2			< 2
1,2,4 Trimethylbenzene	1	ug/l	UK DWS		0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1			< 1
sec-Butylbenzene	1	ug/l	UK DWS		0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1			< 1
1,3 Dichlorobenzene	3000	ug/l	USEPA		0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1
p-Isopropyltoluene	74	ug/l	FEQS		0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1			< 1
1,2-Dichlorobenzene	1000	ug/l	WHO		0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1

Appendix G G9 Groundwater Downgradient

Assessment Scenario

Water Abstraction

					Summary																
Lab Sample ID	Screening value	Units	Screening standard	Number of Exceedances	997700	1020263	1052139	1074205	1096406	1106502	1131834	1160661	1182061								
Client Sample No					ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH51	ARP16-CP-BH51	ARP16-CP-BH51	ARP16-CP-BH51	
Client Sample ID					None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth to Top					13.36-23.46	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	21/01/1900	21/01/1900	21/01/1900	22/01/1900
Depth to Bottom																	None Supplied	17.80-23.60			
Date Sampled					09/07/2018	08/08/2018	24/09/2018	23/10/2018	21/11/2018	03/12/2018	15/01/2019	20/02/2019	20/03/2019	16/11/16	22/11/16	01/12/16	03/02/17				
Sample Type					1330	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied				
1,4-Dichlorobenzene	300	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1			< 1	< 1			
n-Butylbenzene	1	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1				< 1			
1,2-Dibromo-3-chloropropane	1	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2				< 2			
1,2,4-Trichlorobenzene	70	ug/l	USEPA	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 3			< 1	< 3			
Hexachlorobutadiene	0.6	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1			< 1	< 1			
2,6-Chloronitrotoluene	700	ug/l	WHO	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1								
4,2-Chloronitrotoluene	700	ug/l	WHO	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1								
4,3-Chloronitrotoluene	700	ug/l	WHO	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1								
2,4-Chloronitrotoluene	700	ug/l	WHO	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1								
2,5-Chloronitrotoluene	700	ug/l	WHO	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1								
1,2,3-Trichlorobenzene	0.4	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 3				< 3			
1,2,3-Trichloropropane	40	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1				< 1			
1,3,5-Trichlorobenzene	0.4	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0								
Bromochloromethane	100	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5				< 5			
Dichloromethane	20	ug/l	FEQS	0	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 3.0	< 3.0	< 5				< 5			
Carbon disulphide	#####	ug/l	Default	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1				< 1			
Dichlorodifluoromethane	20	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1				< 1			
SVOCS																					
Phenol	7.7	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			< 1	< 1			
2-Chlorophenol	50	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			< 1	< 1			
Bis(2-chloroethyl)ether	1000	ug/l	USEPA	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			< 1	< 1			
Bis(2-chloroisopropyl)ether	1000	ug/l	USEPA	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			< 1	< 1			
2-Methylphenol	100	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			< 1	< 1			
Hexachloroethane	40	ug/l	USEPA	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			< 1	< 1			
Nitrobenzene	1	ug/l	UK DWS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			< 1	< 1			
4-Methylphenol	100	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			< 1	< 1			
Isophorone	7000	ug/l	USEPA	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			< 1	< 1			
2-Nitrophenol	7.7	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			< 1	< 1			
2,4-Dimethylphenol	100	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			< 1	< 1			
Bis(2-chloroethoxy)methane	#####	ug/l	Default	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			< 1	< 1			
2,4-Dichlorophenol	4.2	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			< 1	< 1			
4-Chloro-3-methylphenol	40	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			< 1	< 1			
2,4,6-trichlorophenol	200	ug/l	WHO	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			< 1	< 1			
2,4,5-Trichlorophenol	200	ug/l	WHO	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			< 1	< 1			
2-Methylnaphthalene	2	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			< 1	< 1			
2-Chloronaphthalene	2	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			< 1	< 1			
Dimethylphthalate	800	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			< 1	< 1			
2,6-Dinitrotoluene	100	ug/l	USEPA	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			< 1	< 1			
2,4-Dinitrotoluene	100	ug/l	USEPA	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			< 1	< 1			
Dibenzofuran	2	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			< 1	< 1			
Diethyl phthalate	200	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			< 1	< 1			
Bromophenyl phenyl ether	#####	ug/l	Default	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			< 1	< 1			
Hexachlorobenzene	1	ug/l	USEPA	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 1	< 1	< 1	< 1	< 1			
Phenanthrene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01							
Carbazole	2	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			< 1	< 1			
Di-n-butyl phthalate	8	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			< 1	< 1			
Butyl benzyl phthalate	7.5	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			< 1	< 1			
PCBs by GC-ECD - WHO 12																					
PCB Congener 77	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020				< 0.001				
PCB Congener 81	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020				< 0.001				
PCB Congener 105	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020				< 0.001				
PCB Congener 114	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020				< 0.001				
PCB Congener 118	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020				< 0.002				

Appendix G

G9 Groundwater Downgradient

Assessment Scenario

Water Abstraction

					Summary																
Lab Sample ID	Screening value	Units	Screening standard	Number of Exceedances	997700	1020263	1052139	1074205	1096406	1106502	1131834	1160661	1182061	ARP16-CP-BH51	ARP16-CP-BH51	ARP16-CP-BH51	ARP16-CP-BH51				
Client Sample No					ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH51	ARP16-CP-BH51	ARP16-CP-BH51	ARP16-CP-BH51	
Client Sample ID					None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth to Top					13.36-23.46	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	21/01/1900	21/01/1900	21/01/1900	22/01/1900
Depth to Bottom																	None Supplied	17.80-23.60			
Date Sampled					09/07/2018	08/08/2018	24/09/2018	23/10/2018	21/11/2018	03/12/2018	15/01/2019	20/02/2019	20/03/2019	16/11/16	22/11/16	01/12/16	03/02/17				
Sample Type					1330	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied				
PCB Congener 123	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020				< 0.001				
PCB Congener 126	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020				< 0.001				
PCB Congener 156	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020				< 0.001				
PCB Congener 157	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020				< 0.001				
PCB Congener 167	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020				< 0.001				
PCB Congener 169	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020				< 0.001				
PCB Congener 189	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020				< 0.001				
PCBs	25	ug/l	FEQS	0	< 0.300	< 0.300	< 0.300	< 0.300	< 0.300	< 0.300	< 0.300	< 0.300	< 0.300								
Environmental Forensics																					
PFOS	0.3	ug/l	DWS	1	0.09	0.08	0.21	0.11	0.1	0.16	0.12	0.11	< 0.05								
PFOS	0.3	ug/l	DWS	0																	
PFOA	0.3	ug/l	DWS	0	0.05	0.06	0.06	0.05	0.06	0.07	0.06	0.09	< 0.05								
Metaldehyde	0.1	ug/l	UK DWS	20	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2								
Chloronitrotoluenes (sum)	10	ug/l	FEQS	0	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1								
Chlorbufam	0.1	ug/l	UK DWS	0		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10			< 1.0					
Chloroxuron	0.1	ug/l	UK DWS	0		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10			< 0.1					
Chlorpropham	0.1	ug/l	UK DWS	0		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10			< 1.0					
Ethiofencarb	0.1	ug/l	UK DWS	0		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10			< 0.1					
Phenmedipham	0.1	ug/l	UK DWS	0		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10			< 0.1					
Propam	0.1	ug/l	UK DWS	0		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10			< 0.1					
Dimefuron	0.1	ug/l	UK DWS	0		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10			< 0.1					
Metoxuron	0.1	ug/l	UK DWS	1		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.2			< 0.1					
Pencycuron	0.1	ug/l	UK DWS	0		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10			< 0.1					
o,p-Methoxychlor	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01			< 0.01					
Demeton-s-methyl	0.1	ug/l	UK DWS	0		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10								
Diclofop	0.1	ug/l	UK DWS	0		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02			< 0.02					
Fenvalerate	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10			< 0.1					
Cyhalothrin	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10			< 0.1					
Ametryn	0.1	ug/l	UK DWS	0		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10								
Atrazine-methoxy	0.1	ug/l	UK DWS	0		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10			< 0.1					
Bromacil	0.1	ug/l	UK DWS	0		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02								
Flamprop	0.1	ug/l	UK DWS	0		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02			< 0.02					
Flamprop-isopropyl	0.1	ug/l	UK DWS	0		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02			< 0.02					
Prometon	0.1	ug/l	UK DWS	0		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10			< 0.1					
Simetryn	0.1	ug/l	UK DWS	0		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10			< 0.1					
4-Nitrophenol	7.7	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05								
Hexachlorocyclopentadiene	50	ug/l	USEPA	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1	< 1				
Perylene	2	ug/l	FEQS	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1	< 1				
n-Nitroso-n-dipropylamine	0.1	ug/l	UK DWS	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1				
Carbamates																					
Pirimicarb	100	ng/l	UK DWS	0		< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20			< 0.1					
Carbetamide	100	ng/l	UK DWS	0		< 20	< 20	< 20	< 100.00	< 200.00	< 20	< 20	< 200.00			< 0.1					
Phthalates																					
Bis(2-ethylhexyl)phthalate	8	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			< 2	< 2				
Di-n-octyl phthalate	20	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			< 10	< 10				
Total phthalates	N/A	mg/l	-	0		< 3.5															
Glycols																					
Ethylene Glycol	ISSUE	mg/l	Default	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
Diethylene Glycol	ISSUE	mg/l	Default	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
1,2-Propanediol	ISSUE	mg/l	Default	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
Rodenticides																					
Triazine Pesticides																					

Appendix G

G9 Groundwater Downgradient

Assessment Scenario

Water Abstraction

					Summary																
Lab Sample ID	Screening value	Units	Screening standard	Number of Exceedances	997700	1020263	1052139	1074205	1096406	1106502	1131834	1160661	1182061								
Client Sample No					ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH51	ARP16-CP-BH51	ARP16-CP-BH51	ARP16-CP-BH51	
Client Sample ID					None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth to Top					13.36-23.46	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	21/01/1900	21/01/1900	21/01/1900	22/01/1900
Depth to Bottom																	None Supplied	17.80-23.60			
Date Sampled					09/07/2018	08/08/2018	24/09/2018	23/10/2018	21/11/2018	03/12/2018	15/01/2019	20/02/2019	20/03/2019	16/11/16	22/11/16	01/12/16	03/02/17				
Sample Type	1330	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied								
Atrazine	0.1	ug/l	UK DWS	18		0.08	0.07	0.08	0.1	0.08	0.08	0.09	0.1				< 0.1				
Simazine	0.1	ug/l	UK DWS	0		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05				< 0.1				
Prometryn	0.1	ug/l	UK DWS	0		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05				< 0.1				
Propazine	0.1	ug/l	UK DWS	0		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05				< 0.1				
Terbutylazine	0.1	ug/l	UK DWS	0		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05				< 0.1				
Terbutryn	0.1	ug/l	UK DWS	0		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05				< 0.1				
Acid herbicides esters																					
2,4-D Methyl Ester	0.1	ug/l	UK DWS	0		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02								
2,4-D butyl ester	0.1	ug/l	UK DWS	0		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10								
2,4-D ethyl ester	0.1	ug/l	UK DWS	0		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10								
2,4-D isobutyl ester	0.1	ug/l	UK DWS	0		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10								
2,4-D isopropyl ester	0.1	ug/l	UK DWS	0		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10								
Acid Herbicides																					
2,3,6-TBA	0.1	ug/l	UK DWS	0		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02				< 0.02				
Benazolin	0.1	ug/l	UK DWS	0		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02				< 0.02				
Bromoxynil	0.1	ug/l	UK DWS	0		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02				< 0.02				
Clopyralid	0.1	ug/l	UK DWS	0		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.20	< 0.20 **	< 0.02				< 0.02				
Ioxynil	0.1	ug/l	UK DWS	0		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02				< 0.02				
2,4,5-T	0.1	ug/l	UK DWS	0		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02				< 0.02				
2,4,5-TP	0.1	ug/l	UK DWS	0		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02				< 0.02				
2,4-D	0.1	ug/l	UK DWS	1		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02				< 0.02				
2,4-DB	0.1	ug/l	UK DWS	0		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02				< 0.02				
Dicamba	0.1	ug/l	UK DWS	1		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02				< 0.02				
Dichlorprop	0.1	ug/l	UK DWS	0		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02				< 0.02				
MCPA	0.1	ug/l	UK DWS	0		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02				< 0.02				
MCPB	0.1	ug/l	UK DWS	0		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02				< 0.02				
Mecoprop	0.1	ug/l	UK DWS	15		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02				< 0.02				
Picloram	0.1	ug/l	UK DWS	0		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02				< 0.02				
4-Chlorophenoxyacetic acid	0.1	ug/l	UK DWS	0		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02				< 0.02				
Organochlorine Pesticides																					
Aldrin	0.03	ug/l	UK DWS	0		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				< 0.01				
alpha-HCH (alpha-BHC)	0.1	ug/l	UK DWS	0		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				< 0.01				
beta-HCH (beta-BHC)	0.1	ug/l	UK DWS	0		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				< 0.01				
delta-HCH (delta-BHC)	0.1	ug/l	UK DWS	0		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				< 0.01				
Dieldrin	0.03	ug/l	UK DWS	0		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				< 0.01				
Endosulfan	0.1	ug/l	UK DWS	0		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				< 0.01				
Endosulfan	0.1	ug/l	UK DWS	0		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				< 0.01				
Endosulfan Sulphate	0.1	ug/l	UK DWS	0		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				< 0.01				
Endrin	0.1	ug/l	UK DWS	0		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				< 0.01				
gamma-HCH (gamma-BHC)	0.1	ug/l	UK DWS	0		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				< 0.01				
Heptachlor	0.03	ug/l	UK DWS	0		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				< 0.01				
Heptachlor Epoxide	0.03	ug/l	UK DWS	0		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				< 0.01				
Isodrin	0.1	ug/l	UK DWS	0		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				< 0.01				
Methoxychlor	0.1	ug/l	UK DWS	0		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				< 0.01				
o,p-DDE	0.1	ug/l	UK DWS	0		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				< 0.01				
DDT	0.1	ug/l	UK DWS	0		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				< 0.01				
o,p-TDE (o,p-DDD)	0.1	ug/l	UK DWS	0		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				< 0.01				
p,p-DDE	0.1	ug/l	UK DWS	0		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				< 0.01				
DDT	0.1	ug/l	UK DWS	0		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				< 0.01				
p,p-TDE (o,p-DDD)	0.1	ug/l	UK DWS	0		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				< 0.01				
Trifluralin	0.1	ug/l	UK DWS	0		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				< 0.01				
Organonitrogen pesticides																					
Bentazone	0.1	ug/l	UK DWS	1		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02				< 0.02				

Appendix G G9 Groundwater Downgradient

Assessment Scenario

Water Abstraction

					Summary																
Lab Sample ID	Screening value	Units	Screening standard	Number of Exceedances	997700	1020263	1052139	1074205	1096406	1106502	1131834	1160661	1182061								
Client Sample No					ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH50	ARP16-CP-BH51	ARP16-CP-BH51	ARP16-CP-BH51	ARP16-CP-BH51	
Client Sample ID					None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth to Top					13.36-23.46	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	21/01/1900	21/01/1900	21/01/1900	22/01/1900
Depth to Bottom																	None Supplied	17.80-23.60			
Date Sampled					09/07/2018	08/08/2018	24/09/2018	23/10/2018	21/11/2018	03/12/2018	15/01/2019	20/02/2019	20/03/2019	16/11/16	22/11/16	01/12/16	03/02/17				
Sample Type					1330	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied								
Chlorpyrifos	0.0001	mg/l	UK DWS	0													< 0.00001				
Pendimethalin	0.0001	mg/l	UK DWS	0													< 0.00001				
Bromoform	0.1	mg/l	WHO	0										< 0.001			< 0.001				
Methane	N/A	ug/l	-	0								< 0.1	< 0.1				< 1				

Appendix G

G9 Groundwater Downgradient

Assessment Scenario

Water Abstraction

				Summary													
Lab Sample ID	Screening value	Units	Screening standard	Number of Exceedances	944662	960432	981286	1000275	1020264	1053170	1074206	1099109	1107477	1131836			
Client Sample No					ARP16-CP-BH51	ARP16-CP-BH51	ARP16-CP-BH51	ARP16-CP-BH51	ARP16-CP-BH51	ARP16-CP-BH51	ARP16-CP-BH51	ARP16-CP-BH51	ARP16-CP-BH51	ARP16-CP-BH51	ARP16-CP-BH51	ARP16-CP-BH51	ARP16-CP-BH51
Client Sample ID					None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth to Top					22/01/1900	21/01/1900	22/01/1900	None Supplied	None Supplied	None Supplied	18.40-32.15	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth to Bottom								None Supplied	None Supplied								
Date Sampled					07/03/17	04/04/17	17/05/17	16/04/2018	14/05/2018	13/06/2018	12/07/2018	09/08/2018	25/09/2018	22/10/2018	22/11/2018	04/12/2018	15/01/2019
Sample Type						None Supplied	0830	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied				
Inorganics																	
Organics																	
General inorganics																	
pH	N/A	pH units	-	0	< 5	< 5	< 5	8	7.2	7.3	7.3	7.4	7.3	7.3	7.4	7.3	
Total Cyanide	50	ug/l	UK DWS	0	< 5	< 5	< 5	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	
Complex Cyanides	50	ug/l	UK DWS	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	
Free Cyanide	50	ug/l	UK DWS	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	
Thiocyanate as SCN	50	ug/l	UK DWS	0	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	
Sulphate as SO4	250000	ug/l	UK DWS	0	31000	32000	30000	32600	34200	34500	28900	23500	26900	25700	21500	22600	25400
Sulphide	250000	ug/l	UK DWS	0	< 100	< 100	< 100	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
Chloride	250	mg/l	UK DWS	0	31.9	31.23	33	28	26	27	29	42	26	30	29	33	32
Fluoride	1500	ug/l	UK DWS	0	140	140	730	150	130	180	150	150	130	210	160	180	200
Ammoniacal Nitrogen as N	390	ug/l	UK DWS	22	< 20	< 20	< 20	140	61	< 15	20	250	24	330	35	95	25
Nitrate as N	11.3	mg/l	UK DWS	1				9.12	12.3	9.74	7.41	8.13	7.93	7.54	7.35	6.89	7.4
Nitrate as NO3	50	mg/l	UK DWS	2	27.41	31.8	31.75	40.4	54.5	43.1	32.8	36	35.1	33.4	32.6	30.5	32.8
Nitrite as N	160	ug/l	UK DWS	4				6.8	1.8	9	12	7.6	3	8.5	7.1	28	19
Nitrite as NO2	500	ug/l	UK DWS	4	< 100	< 100	< 100	22	6.1	30	38	25	9.9	28	23	93	62
Alkalinity	N/A	mg/l	-	0	252	212	207	210	410	440	410	420	480	240	180	210	220
Chemical Oxygen Demand (COD)	N/A	mg/l	-	0				3.2	5.8	< 2.0	< 2.0	< 2.0	4.7	< 2.0	6.7	< 2.0	25
Biological Oxygen Demand (BOD)	N/A	mg/l	-	0				-	1.2	1	1.1	1.2	< 1.0	< 1.0	1.4	< 1.0	< 1.0
Total Oxidised N (Nitrate/-ite)	11.3	mg/l	UK DWS	2	6.2	7.2	7.2	9.1	12	9.8	7.4	8.1	7.9	7.5	7.4	6.9	7.4
Total Suspended Solids	N/A	mg/l	-	0	2363	516	1421	9	10	22	34	86	10	26	4	220	860
Hardness - Total	N/A	mg/l	-	0	331	308	337	222	328	310	307	277	293	295	238	240	295
Bromide	N/A	mg/l	-	0				0.078	0.065	0.074	0.075	0.093	0.084	0.078	0.081	0.14	0.063
Bromate	0.01	mg/l	UK DWS	0	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Phenols																	
Catechol	7.7	ug/l	FEQS	0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Resorcinol	7.7	ug/l	FEQS	0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Ethylphenol & Dimethylphenol	100	ug/l	FEQS	0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Cresols	100	ug/l	FEQS	0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Naphthols	7.7	ug/l	FEQS	0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Isopropylphenol	7.7	ug/l	FEQS	0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Phenol	7.7	ug/l	FEQS	0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Trimethylphenol	100	ug/l	FEQS	0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Speciated PAHs																	
Naphthalene	2	ug/l	FEQS	0	< 0.01	< 0.01	0.21	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthylene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthene	2000	ug/l	USEPA	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluorene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Phenanthrene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Anthracene	0.1	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluoranthene	0.0063	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Pyrene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)anthracene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Chrysene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(b)fluoranthene	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(k)fluoranthene	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)pyrene	0.01	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Indeno(1,2,3-cd)pyrene	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Dibenzo(a,h)anthracene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(g,h,i)perylene	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Heavy metals and metalloids																	

Appendix G

G9 Groundwater Downgradient

Assessment Scenario

Water Abstraction

					Summary												
Lab Sample ID	Screening value	Units	Screening standard	Number of Exceedances	944662	960432	981286	1000275	1020264	1053170	1074206	1099109	1107477	1131836			
Client Sample No					ARP16-CP-BH51	ARP16-CP-BH51	ARP16-CP-BH51	ARP16-CP-BH51	ARP16-CP-BH51	ARP16-CP-BH51	ARP16-CP-BH51	ARP16-CP-BH51	ARP16-CP-BH51	ARP16-CP-BH51	ARP16-CP-BH51	ARP16-CP-BH51	ARP16-CP-BH51
Client Sample ID					None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth to Top					22/01/1900	21/01/1900	22/01/1900	None Supplied	None Supplied	None Supplied	18.40-32.15	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth to Bottom								None Supplied	None Supplied								
Date Sampled					07/03/17	04/04/17	17/05/17	16/04/2018	14/05/2018	13/06/2018	12/07/2018	09/08/2018	25/09/2018	22/10/2018	22/11/2018	04/12/2018	15/01/2019
Sample Type						None Supplied	0830	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied				
PCB Congener 123	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020		
PCB Congener 126	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020		
PCB Congener 156	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020		
PCB Congener 157	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020		
PCB Congener 167	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020		
PCB Congener 169	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020		
PCB Congener 189	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020		
PCBs	25	ug/l	FEQS	0	< 0.300	< 0.300	< 0.300	< 0.300	< 0.300	< 0.300	< 0.300	< 0.300	< 0.300	< 0.300	< 0.300		
Environmental Forensics																	
PFOS	0.3	ug/l	DWS	1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.08	
PFOA	0.3	ug/l	DWS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.06	
Metaldehyde	0.1	ug/l	UK DWS	20	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	
Chloronitrotoluenes (sum)	10	ug/l	FEQS	0	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	
Chlorbufam	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Chloroxuron	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Chlorpropham	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Ethiofencarb	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Phenmedipham	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Propam	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Dimefuron	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Metoxuron	0.1	ug/l	UK DWS	1	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Pencycuron	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
o,p-Methoxychlor	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	
Demeton-s-methyl	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Diclofop	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	
Fenvalerate	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Cyhalothrin	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Ametryn	0.1	ug/l	UK DWS	0	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Atrazine-methoxy	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Bromacil	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02	0.05	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	
Flamprop	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	
Flamprop-isopropyl	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	
Prometon	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Simetryn	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
4-Nitrophenol	7.7	ug/l	FEQS	0	< 1	< 1	< 1	< 1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	
Hexachlorocyclopentadiene	50	ug/l	USEPA	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	
Perylene	2	ug/l	FEQS	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	
n-Nitroso-n-dipropylamine	0.1	ug/l	UK DWS	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	
Carbamates																	
Pirimicarb	100	ng/l	UK DWS	0	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	
Carbetamide	100	ng/l	UK DWS	0	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 100.00	< 20	< 20	< 20	
Phthalates																	
Bis(2-ethylhexyl)phthalate	8	ug/l	WHO	0	< 2	< 2	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	5.2	
Di-n-octyl phthalate	20	ug/l	FEQS	0	< 10	< 10	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2.1	
Total phthalates	N/A	mg/l	-	0						< 3.5							
Glycols																	
Ethylene Glycol	ISSUE	mg/l	Default	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	
Diethylene Glycol	ISSUE	mg/l	Default	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	
1,2-Propanediol	ISSUE	mg/l	Default	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	
Rodenticides																	
Triazine Pesticides																	

Appendix G

G9 Groundwater Downgradient

Assessment Scenario

Water Abstraction

					Summary													
Lab Sample ID	Screening value	Units	Screening standard	Number of Exceedances	944662	960432	981286	1000275	1020264	1053170	1074206	1099109	1107477	1131836				
Client Sample No					ARP16-CP-BH51	ARP16-CP-BH51	ARP16-CP-BH51	ARP16-CP-BH51	ARP16-CP-BH51	ARP16-CP-BH51	ARP16-CP-BH51	ARP16-CP-BH51	ARP16-CP-BH51	ARP16-CP-BH51	ARP16-CP-BH51	ARP16-CP-BH51	ARP16-CP-BH51	
Client Sample ID					None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth to Top					22/01/1900	21/01/1900	22/01/1900	None Supplied	None Supplied	None Supplied	18.40-32.15	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	22.59-32.82
Depth to Bottom								None Supplied	None Supplied									
Date Sampled					07/03/17	04/04/17	17/05/17	16/04/2018	14/05/2018	13/06/2018	12/07/2018	09/08/2018	25/09/2018	22/10/2018	22/11/2018	04/12/2018	15/01/2019	
Sample Type						None Supplied	0830	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied				
Atrazine	0.1	ug/l	UK DWS	18	< 0.05	< 0.05	< 0.05		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			
Simazine	0.1	ug/l	UK DWS	0	< 0.05	< 0.05	< 0.05		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			
Prometryn	0.1	ug/l	UK DWS	0	< 0.05	< 0.05	< 0.05		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			
Propazine	0.1	ug/l	UK DWS	0	< 0.05	< 0.05	< 0.05		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			
Terbutylazine	0.1	ug/l	UK DWS	0	< 0.05	< 0.05	< 0.05		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			
Terbutryn	0.1	ug/l	UK DWS	0	< 0.05	< 0.05	< 0.05		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			
Acid herbicides esters																		
2,4-D Methyl Ester	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02			
2,4-D butyl ester	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10			
2,4-D ethyl ester	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10			
2,4-D isobutyl ester	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10			
2,4-D isopropyl ester	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10			
Acid Herbicides																		
2,3,6-TBA	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02			
Benazolin	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02			
Bromoxynil	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02			
Clopyralid	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.20			
Ioxynil	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02			
2,4,5-T	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02			
2,4,5-TP	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02			
2,4-D	0.1	ug/l	UK DWS	1	< 0.02	< 0.02	< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02			
2,4-DB	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02			
Dicamba	0.1	ug/l	UK DWS	1	< 0.02	< 0.02	< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02			
Dichlorprop	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02			
MCPA	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02			
MCPB	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02			
Mecoprop	0.1	ug/l	UK DWS	15	< 0.02	< 0.02	< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02			
Picloram	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02			
4-Chlorophenoxyacetic acid	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02			
Organochlorine Pesticides																		
Aldrin	0.03	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01			
alpha-HCH (alpha-BHC)	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01			
beta-HCH (beta-BHC)	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01			
delta-HCH (delta-BHC)	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01			
Dieldrin	0.03	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01			
Endosulfan	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01			
Endosulfan	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01			
Endosulfan Sulphate	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01			
Endrin	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01			
gamma-HCH (gamma-BHC)	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01			
Heptachlor	0.03	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01			
Heptachlor Epoxide	0.03	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01			
Isodrin	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01			
Methoxychlor	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01			
o,p-DDE	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01			
DDT	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01			
o,p-TDE (o,p-DDD)	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01			
p,p-DDE	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01			
DDT	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01			
p,p-TDE (o,p-DDD)	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01			
Trifluralin	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01			
Organonitrogen pesticides																		
Bentazone	0.1	ug/l	UK DWS	1			0.050	0.090	0.250		< 0.02	0.030	< 0.02	< 0.02	< 0.02	0.050		

Appendix G G9 Groundwater Downgradient

Assessment Scenario

Water Abstraction

					Summary													
Lab Sample ID	Screening value	Units	Screening standard	Number of Exceedances	944662	960432	981286	1000275	1020264	1053170	1074206	1099109	1107477	1131836				
Client Sample No					ARP16-CP-BH51	ARP16-CP-BH51	ARP16-CP-BH51	ARP16-CP-BH51	ARP16-CP-BH51	ARP16-CP-BH51	ARP16-CP-BH51	ARP16-CP-BH51	ARP16-CP-BH51	ARP16-CP-BH51	ARP16-CP-BH51	ARP16-CP-BH51	ARP16-CP-BH51	
Client Sample ID								None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth to Top					22/01/1900	21/01/1900	22/01/1900	None Supplied	None Supplied	None Supplied	18.40-32.15	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	22.59-32.82
Depth to Bottom								None Supplied	None Supplied									
Date Sampled					07/03/17	04/04/17	17/05/17	16/04/2018	14/05/2018	13/06/2018	12/07/2018	09/08/2018	25/09/2018	22/10/2018	22/11/2018	04/12/2018	15/01/2019	
Sample Type						None Supplied	0830	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied				
Chlorpyrifos	0.0001	mg/l	UK DWS	0														
Pendimethalin	0.0001	mg/l	UK DWS	0														
Bromoform	0.1	mg/l	WHO	0	< 0.001	< 0.001	< 0.001											
Methane	N/A	ug/l	-	0	1	< 2	< 1											

Appendix G

G9 Groundwater Downgradient

Assessment Scenario

Water Abstraction

					Summary																				
Lab Sample ID	Screening value	Units	Screening standard	Number of Exceedances	1163610	1180865	ARP16-CP-BH51	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	945424	962605	980067	999568					
Client Sample No					ARP16-CP-BH51	ARP16-CP-BH51	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55		
Client Sample ID					None Supplied	None Supplied	07/02/1900	07/02/1900	06/02/1900	08/02/1900	07/02/1900	07/02/1900	08/02/1900	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	
Depth to Top					None Supplied	27.71-31.82								None Supplied	None Supplied									35.94-51.87	
Depth to Bottom					None Supplied	27.71-31.82								None Supplied	None Supplied										
Date Sampled					22/02/2019	19/03/2019	16/11/16	22/11/16	01/12/16	03/02/17	07/03/17	04/04/17	17/05/17	18/04/2018	16/05/2018	12/06/2018	10/07/2018								
Sample Type																					1120				
Inorganics																									
Organics																									
General inorganics																									
pH	N/A	pH units	-	0	7.4	7.4											7	6.9	7	7					
Total Cyanide	50	ug/l	UK DWS	0	< 10	< 10	< 5			< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 10	< 10	< 10	< 10					
Complex Cyanides	50	ug/l	UK DWS	0	< 10	< 10	< 5										< 10	< 10	< 10	< 10					
Free Cyanide	50	ug/l	UK DWS	0	< 10	< 10	< 5										< 10	< 10	< 10	< 10					
Thiocyanate as SCN	50	ug/l	UK DWS	0	< 200	< 200											< 200	< 200	< 200	< 200					
Sulphate as SO4	250000	ug/l	UK DWS	0	21900	24800				30000	30000	29000	29000	25700	17400	26800	22900								
Sulphide	250000	ug/l	UK DWS	0	< 5.0	< 5.0				< 100	< 100	< 100	< 100	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0					
Chloride	250	mg/l	UK DWS	0	35	40				98.2	97.63	104	103	74	83	83	110								
Fluoride	1500	ug/l	UK DWS	0	240	190				100	< 100	150	330	140	160	240	210								
Ammoniacal Nitrogen as N	390	ug/l	UK DWS	22	< 15	28				30	< 20	50	220	120	120	53	99								
Nitrate as N	11.3	mg/l	UK DWS	1	6.79	7.57								1.16	1.19	1.11	0.57								
Nitrate as NO3	50	mg/l	UK DWS	2	30.1	33.5				16.9	2.41	0.91	1.67	5.14	5.27	4.92	2.51								
Nitrite as N	160	ug/l	UK DWS	4	20	7.4								4	52	18	130								
Nitrite as NO2	500	ug/l	UK DWS	4	67	24				220	< 100	< 100	< 100	13	170	60	420								
Alkalinity	N/A	mg/l	-	0	250	250				344	357	337	293	530	590	590	570								
Chemical Oxygen Demand (COD)	N/A	mg/l	-	0	30	22	7							6.9	5.7	15	8.6								
Biological Oxygen Demand (BOD)	N/A	mg/l	-	0	15	< 1.0	< 1							< 1.0	< 1.0	< 1.0	< 1.0								
Total Oxidised N (Nitrate/-ite)	11.3	mg/l	UK DWS	2	6.8	7.6				3.9	0.6	0.2	0.4	1.2	1.2	1.1	0.7								
Total Suspended Solids	N/A	mg/l	-	0	1800	5				1411	1904	1449	2469	1000	210	470	470								
Hardness - Total	N/A	mg/l	-	0	353	289				439	507	401	443	360	308	388	383								
Bromide	N/A	mg/l	-	0	0.07	0.083								0.34	0.31	0.39	0.37								
Bromate	0.01	mg/l	UK DWS	0	< 0.002	< 0.002								< 0.002	< 0.002	< 0.002	< 0.002								
Phenols																									
Catechol	7.7	ug/l	FEQS	0	< 0.5	< 0.5								< 0.5	< 0.5	< 0.5	< 0.5								
Resorcinol	7.7	ug/l	FEQS	0	< 0.5	< 0.5	< 10							< 0.5	< 0.5	< 0.5	< 0.5								
Ethylphenol & Dimethylphenol	100	ug/l	FEQS	0	< 0.5	< 0.5	< 10							< 0.5	< 0.5	< 0.5	< 0.5								
Cresols	100	ug/l	FEQS	0	< 0.5	< 0.5	< 10							< 0.5	< 0.5	< 0.5	< 0.5								
Naphthols	7.7	ug/l	FEQS	0	< 0.5	< 0.5								< 0.5	< 0.5	< 0.5	< 0.5								
Isopropylphenol	7.7	ug/l	FEQS	0	< 0.5	< 0.5								< 0.5	< 0.5	< 0.5	< 0.5								
Phenol	7.7	ug/l	FEQS	0	< 0.5	< 0.5	< 10							< 0.5	< 0.5	< 0.5	< 0.5								
Trimethylphenol	100	ug/l	FEQS	0	< 0.5	< 0.5								< 0.5	< 0.5	< 0.5	< 0.5								
Speciated PAHs																									
Naphthalene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 1	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Acenaphthylene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 1	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Acenaphthene	2000	ug/l	USEPA	0	< 0.01	< 0.01	< 0.01	< 1	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Fluorene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 1	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Phenanthrene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 1	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Anthracene	0.1	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 1	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Fluoranthene	0.0063	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 1	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Pyrene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 1	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Benzo(a)anthracene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 1	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Chrysene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 1	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Benzo(b)fluoranthene	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 1	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Benzo(k)fluoranthene	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 1	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Benzo(a)pyrene	0.01	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 1	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Indeno(1,2,3-cd)pyrene	0.1	ug/l	UK DWS	0	< 0.001	< 0.001	< 0.01	< 1	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001				
Dibenzo(a,h)anthracene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 1	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Benzo(g,h,i)perylene	0.1	ug/l	UK DWS	0	< 0.001	< 0.001	< 0.01	< 1	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001				
Heavy metals and metalloids																									

Appendix G

G9 Groundwater Downgradient

Assessment Scenario

Water Abstraction

					Summary													
Lab Sample ID	Screening value	Units	Screening standard	Number of Exceedances	1163610	1180865	ARP16-CP-BH51	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	945424	962605	980067	999568
Client Sample No					ARP16-CP-BH51	ARP16-CP-BH51	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55
Client Sample ID					None Supplied	None Supplied	07/02/1900	07/02/1900	06/02/1900	08/02/1900	07/02/1900	07/02/1900	08/02/1900	08/02/1900	None Supplied	None Supplied	None Supplied	None Supplied
Depth to Top					None Supplied	27.71-31.82									None Supplied	None Supplied	None Supplied	35.94-51.87
Depth to Bottom																		
Date Sampled					22/02/2019	19/03/2019	16/11/16	22/11/16	01/12/16	03/02/17	07/03/17	04/04/17	17/05/17	18/04/2018	16/05/2018	12/06/2018	10/07/2018	
Sample Type																	None Supplied	1120
Antimony	5	ug/l	UK DWS	0	< 0.4	< 0.4				< 1	< 1	< 1	< 1	< 0.4	< 0.4	3.1	< 0.4	
Arsenic	10	ug/l	UK DWS	0	0.17	0.4	< 1			< 1	< 1	< 1	< 1	0.36	0.3	3.19	0.61	
Barium	700	ug/l	WHO	0	50	47	145							120	120	94	120	
Beryllium	4	ug/l	USEPA	0	< 0.1	< 0.1	< 1			< 1	< 1	< 1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	
Boron	1000	ug/l	UK DWS	1	23	26	211							90	82	110	170	
Cadmium >200mg/l CaCO3	5	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.2			< 0.2	< 0.2	< 0.2	0.4	< 0.02	< 0.02	0.03	< 0.02	
Calcium	N/A	mg/l	-	0	140	110				171	198	156	173	140	120	150	150	
Chromium VI	3.4	ug/l	FEQS	2	< 5.0	< 5.0	< 10							< 5.0	< 5.0	< 5.0	< 5.0	
Chromium III	4.7	ug/l	FEQS	0	1.4	1.2								1	1.3	< 1.0	1.9	
Chromium Total	50	ug/l	UK DWS	0	1.4	1.2	< 1			2	1	< 1	< 1	1	1.3	0.8	1.9	
Copper (bioavailable), DOC <1mg/l	2000	ug/l	UK DWS	0	1.4	2.4	1			3	2	< 1	2	1.9		3.5	2.9	
Iron	0.2	mg/l	UK DWS	2	< 0.004	0.16				0.32	0.17	< 0.01	0.017	< 0.004	0.022	< 0.004	< 0.004	
Lead	10	ug/l	UK DWS	0	< 0.2	< 0.2	< 1			4	< 1	< 1	< 1	< 0.2	0.4	9.9	< 0.2	
Magnesium	N/A	mg/l	-	0	1.4	1.9				3	3	3	3	2.5	2.7	3	2.4	
Manganese (bioavailable)	50	ug/l	UK DWS	26	0.21	0.94				63	39	25	21	11	17	49	19	
Mercury	1	ug/l	UK DWS	2	< 0.05	0.11	< 0.1			< 0.1	< 0.1	< 0.1	0.2	0.24	0.13	< 0.05	0.07	
Molybdenum	70	ug/l	WHO	0	0.17	0.56								0.16	0.67	1.8	0.73	
Nickel >200 mg/l CaCO3	20	ug/l	UK DWS	2	< 0.5	< 0.5	3			5	4	3	4	1.8	2.5	3.4	2.7	
Potassium	N/A	mg/l	-	0	0.87	1.2				2	2	2	2	1.4	1.6	1.8	1.5	
Selenium	10	ug/l	UK DWS	0	< 0.6	< 0.6	< 1			< 1	< 1	< 1	< 1	1.2	0.9	1	0.9	
Sodium	50	mg/l	WHO	26	17	18				51	49	50	51	34	38	51	40	
Vanadium	20	ug/l	FEQS	0	0.3	0.3	< 1			2	< 1	< 1	< 1	0.5	0.5	2.7	0.6	
Zinc >250 mg/l CaCO3	5000	ug/l	USEPA	0	3.7	4.5	4			31	9	9	13	1.1	2.8	6.9	8	
Monoaromatics																		
Benzene	1	ug/l	UK DWS	0	< 1.0	< 1.0	< 1			< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	
Toluene	74	ug/l	FEQS	0	< 1.0	< 1.0	< 1			< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	
Ethylbenzene	20	ug/l	FEQS	0	< 1.0	< 1.0	< 1			< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	
Xylenes	30	ug/l	FEQS	0	< 1.0	< 1.0	< 1							< 1.0	< 1.0	< 1.0	< 1.0	
MTBE	15	ug/l	WHO	0	< 1.0	< 1.0	< 1							< 1.0	< 1.0	< 1.0	< 1.0	
Petroleum hydrocarbons																		
TPH	N/A	ug/l	-	0			< 5											
TPH >C5-C6 Aliphatics	15000	ug/l	WHO	0	< 1.0	< 1.0	< 1							< 1.0	< 1.0	< 1.0	< 1.0	
TPH >C6-C8 Aliphatics	15000	ug/l	WHO	0	< 1.0	< 1.0	< 1							< 1.0	< 1.0	< 1.0	< 1.0	
TPH >C8-C10 Aliphatics	300	ug/l	WHO	0	< 1.0	< 1.0	< 1							< 1.0	< 1.0	< 1.0	< 1.0	
TPH >C10-C12 Aliphatics	300	ug/l	WHO	0	< 10	< 10	< 5							< 10	< 10	< 10	< 10	
TPH >C12-C16 Aliphatics	300	ug/l	WHO	0	< 10	< 10	< 5							< 10	< 10	< 10	< 10	
TPH >C16-C21 Aliphatics	300	ug/l	WHO	0	< 10	< 10	< 5							< 10	< 10	< 10	< 10	
TPH >C21-C35 Aliphatics	300	ug/l	WHO	0	< 10	< 10	< 5							< 10	< 10	< 10	< 10	
TPH-CWG - Aliphatic >C16 - C35	300	ug/l	WHO	0	< 10	< 10								< 10	< 10	< 10	< 10	
TPH-CWG - Aliphatic >C35 - C44	300	ug/l	WHO	0	< 10	< 10								< 10	< 10	< 10	< 10	
C5-C35 Aliphatics	N/A	ug/l	-	0	< 10	< 10								< 10	< 10	< 10	< 10	
TPH-CWG - Aliphatic (C5 - C44)	N/A	ug/l	-	0	< 10	< 10								< 10	< 10	< 10	< 10	
TPH >C5-C6 Aromatics	10	ug/l	WHO	0	< 1.0	< 1.0	< 1							< 1.0	< 1.0	< 1.0	< 1.0	
TPH >C7-C8 Aromatics	700	ug/l	WHO	0	< 1.0	< 1.0	< 1							< 1.0	< 1.0	< 1.0	< 1.0	
TPH >C8-C9 Aromatics	300	ug/l	WHO	0			< 1											
TPH >C9-C10 Aromatics	300	ug/l	WHO	0			< 1											
TPH >C8-C10 Aromatics	300	ug/l	WHO	0	< 1.0	< 1.0								< 1.0	< 1.0	< 1.0	< 1.0	
TPH >C10-C12 Aromatics	90	ug/l	WHO	0	< 10	< 10	< 5	< 5		< 5	< 5	< 5	< 5	< 10	< 10	< 10	< 10	
TPH >C12-C16 Aromatics	90	ug/l	WHO	0	< 10	< 10	< 5	< 5		< 5	< 5	< 5	< 5	< 10	< 10	< 10	< 10	
TPH >C16-C21 Aromatics	90	ug/l	WHO	0	< 10	< 10	< 5	< 5		19	< 5	< 5	< 5	< 10	< 10	< 10	< 10	
TPH >C21-C35 Aromatics	90	ug/l	WHO	0	< 10	< 10	< 5	< 5		31	< 5	< 5	< 5	< 10	< 10	< 10	< 10	
TPH >C35-C44 Aromatics	90	ug/l	WHO	0	< 10	< 10	< 5			< 5	< 5	< 5	< 5	< 10	< 10	< 10	< 10	

Appendix G

G9 Groundwater Downgradient

Assessment Scenario

Water Abstraction

Lab Sample ID	Screening value	Units	Screening standard	Summary													
				1163610	1180865	ARP16-CP-BH51	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	945424	962605	980067
Client Sample No				None Supplied	None Supplied	07/02/1900	07/02/1900	06/02/1900	08/02/1900	07/02/1900	07/02/1900	08/02/1900	None Supplied	None Supplied	None Supplied	None Supplied	
Client Sample ID				None Supplied	27.71-31.82								None Supplied	None Supplied		35.94-51.87	
Depth to Top				22/02/2019	19/03/2019	16/11/16	22/11/16	01/12/16	03/02/17	07/03/17	04/04/17	17/05/17	18/04/2018	16/05/2018	12/06/2018	10/07/2018	
Depth to Bottom															None Supplied	1120	
Date Sampled																	
Sample Type																	
C5-C35 Aromatics	N/A	ug/l	-	0	< 10	< 10							< 10	< 10	< 10	< 10	
C5-C35 Aromatics	N/A	ug/l	-	0	< 10	< 10							< 10	< 10	< 10	< 10	
VOCs																	
Chloromethane	20	ug/l	FEQS	0	< 1.0	< 1.0	< 10			< 10	< 10	< 10	< 10	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	3	ug/l	UK DWS	0	< 1.0	< 1.0	< 1			< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	100	ug/l	UK DWS	0	< 1.0	< 1.0	< 1			< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl Chloride	0.5	ug/l	UK DWS	0	< 1.0	< 1.0	< 1			< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0
Trichlorofluoromethane	2.5	ug/l	FEQS	0	< 1.0	< 1.0	< 1			< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	7	ug/l	USEPA	0	< 1.0	< 1.0	< 1			< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	400	ug/l	FEQS	0	< 1.0	< 1.0								< 1.0	< 1.0	< 1.0	< 1.0
Cis-1,2 Dichloroethene	50	ug/l	WHO	0	< 1.0	< 1.0	2		1	1		2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE	15	ug/l	WHO	0	< 1.0	< 1.0	< 1						< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1 -Dichloroethane	3	ug/l	UK DWS	0	< 1.0	< 1.0	< 1			< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0
2,2-Dichloropropane	40	ug/l	WHO	0	< 1.0	< 1.0	< 1			< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0
Trichloromethane	2.5	ug/l	FEQS	0	< 1.0	< 1.0	< 1			< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	100	ug/l	FEQS	0	< 1.0	< 1.0	< 1			< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	3	ug/l	UK DWS	0	< 1.0	< 1.0	< 2			< 2	< 2	< 2	< 2	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloropropene	20	ug/l	WHO	0	< 1.0	< 1.0	< 1			< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,2 Dichloroethene	50	ug/l	WHO	0	< 1.0	< 1.0	< 1			< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0
Benzene	1	ug/l	UK DWS	0	< 1.0	< 1.0	< 1			< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloromethane	3	ug/l	UK DWS	0	< 1.0	< 1.0	< 1			< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	40	ug/l	WHO	0	< 1.0	< 1.0	< 1			< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	10	ug/l	UK DWS	2	< 1.0	< 1.0	6		5	6	6	7	< 1.0	3.6	< 1.0	5.2	< 1.0
Dibromomethane	100	ug/l	UK DWS	0	< 1.0	< 1.0	< 1			< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	100	ug/l	UK DWS	0	< 1.0	< 1.0	< 10			< 10	< 10	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cis-1,3 Dichloropropene	20	ug/l	WHO	0	< 1.0	< 1.0	< 1			< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,3 Dichloropropene	20	ug/l	WHO	0	< 1.0	< 1.0	< 1			< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	74	ug/l	FEQS	0	< 1.0	< 1.0							< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	400	ug/l	FEQS	0	< 1.0	< 1.0	< 1			< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichloropropane	40	ug/l	WHO	0	< 1.0	< 1.0	< 1			< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0
Dibromochloromethane	100	ug/l	WHO	0	< 1.0	< 1.0	< 3			< 3	< 3	< 3	< 3	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	10	ug/l	UK DWS	0	< 1.0	< 1.0	< 1			< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane	0.4	ug/l	WHO	0	< 1.0	< 1.0	< 1			< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	0.4	ug/l	FEQS	0	< 1.0	< 1.0	< 1			< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane	400	ug/l	USEPA	0	< 1.0	< 1.0	< 1			< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	20	ug/l	FEQS	0	< 1.0	< 1.0							< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m,p-Xylenes	30	ug/l	FEQS	0	< 1.0	< 1.0	< 1			< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0
Styrene	20	ug/l	WHO	0	< 1.0	< 1.0	< 1			< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0
Tribromomethane	#####	ug/l	Default	0	< 1.0	< 1.0							< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	30	ug/l	FEQS	0	< 1.0	< 1.0	< 1			< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	400	ug/l	USEPA	0	< 1.0	< 1.0	< 1			< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0
Iso-propylbenzene	1	ug/l	UK DWS	0	< 1.0	< 1.0	< 1			< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0
Bromobenzene	1	ug/l	UK DWS	0	< 1.0	< 1.0	< 1			< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0
Propylbenzene	1	ug/l	UK DWS	0	< 1.0	< 1.0	< 1			< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0
2-Chlorotoluene	700	ug/l	WHO	0	< 1.0	< 1.0	< 1			< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0
4-Chlorotoluene	700	ug/l	WHO	0	< 1.0	< 1.0	< 1			< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5 Trimethylbenzene	1	ug/l	UK DWS	0	< 1.0	< 1.0	< 1			< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0
tert-Butylbenzene	1	ug/l	UK DWS	0	< 1.0	< 1.0	< 2			< 2	< 2	< 2	< 2	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4 Trimethylbenzene	1	ug/l	UK DWS	0	< 1.0	< 1.0	< 1			< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0
sec-Butylbenzene	1	ug/l	UK DWS	0	< 1.0	< 1.0	< 1			< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0
1,3 Dichlorobenzene	3000	ug/l	USEPA	0	< 1.0	< 1.0	< 1		< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0
p-Isopropyltoluene	74	ug/l	FEQS	0	< 1.0	< 1.0	< 1			< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	1000	ug/l	WHO	0	< 1.0	< 1.0	< 1		< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0

Appendix G

G9 Groundwater Downgradient

Assessment Scenario

Water Abstraction

					Summary																	
Lab Sample ID	Screening value	Units	Screening standard	Number of Exceedances	1163610	1180865	ARP16-CP-BH51	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	945424	962605	980067	999568				
Client Sample No					ARP16-CP-BH51	ARP16-CP-BH51	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	
Client Sample ID					None Supplied	None Supplied	07/02/1900	07/02/1900	06/02/1900	08/02/1900	07/02/1900	07/02/1900	08/02/1900	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth to Top					None Supplied	27.71-31.82								None Supplied	None Supplied							35.94-51.87
Depth to Bottom					22/02/2019	19/03/2019	16/11/16	22/11/16	01/12/16	03/02/17	07/03/17	04/04/17	17/05/17	18/04/2018	16/05/2018	12/06/2018	10/07/2018					
Date Sampled																						
Sample Type																			None Supplied			
1,4 Dichlorobenzene	300	ug/l	WHO	0	< 1.0	< 1.0	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			
n-Butylbenzene	1	ug/l	UK DWS	0	< 1.0	< 1.0	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			
1,2-Dibromo-3-chloropropane	1	ug/l	WHO	0	< 1.0	< 1.0	< 2		< 2	< 2	< 2	< 2	< 2	< 2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			
1,2,4-Trichlorobenzene	70	ug/l	USEPA	0	< 1.0	< 1.0	< 3		< 3	< 3	< 3	< 3	< 3	< 3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			
Hexachlorobutadiene	0.6	ug/l	WHO	0	< 1.0	< 1.0	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			
2,6 Chloronitrotoluene	700	ug/l	WHO	0	< 1	< 1									< 1	< 1	< 1	< 1	< 1			
4,2 Chloronitrotoluene	700	ug/l	WHO	0	< 1	< 1									< 1	< 1	< 1	< 1	< 1			
4,3 Chloronitrotoluene	700	ug/l	WHO	0	< 1	< 1									< 1	< 1	< 1	< 1	< 1			
2,4 Chloronitrotoluene	700	ug/l	WHO	0	< 1	< 1									< 1	< 1	< 1	< 1	< 1			
2,5 Chloronitrotoluene	700	ug/l	WHO	0	< 1	< 1									< 1	< 1	< 1	< 1	< 1			
1,2,3-Trichlorobenzene	0.4	ug/l	FEQS	0	< 1.0	< 1.0	< 3		< 3	< 3	< 3	< 3	< 3	< 3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			
1,2,3-Trichloropropane	40	ug/l	WHO	0	< 1.0	< 1.0	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			
1,3,5-Trichlorobenzene	0.4	ug/l	FEQS	0	< 1.0	< 1.0									< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			
Bromochloromethane	100	ug/l	WHO	0	< 1.0	< 1.0	< 5		< 5	< 5	< 5	< 5	< 5	< 5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			
Dichloromethane	20	ug/l	FEQS	0	< 3.0	< 3.0	< 5		< 5	< 5	< 5	< 5	< 5	< 5	< 100	< 100	< 100	< 100	< 100			
Carbon disulphide	#####	ug/l	Default	0	< 1.0	< 1.0	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			
Dichlorodifluoromethane	20	ug/l	FEQS	0	< 1.0	< 1.0	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			
SVOCs																						
Phenol	7.7	ug/l	FEQS	0	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			
2-Chlorophenol	50	ug/l	FEQS	0	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			
Bis(2-chloroethyl)ether	1000	ug/l	USEPA	0	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			
Bis(2-chloroisopropyl)ether	1000	ug/l	USEPA	0	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			
2-Methylphenol	100	ug/l	FEQS	0	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			
Hexachloroethane	40	ug/l	USEPA	0	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			
Nitrobenzene	1	ug/l	UK DWS	0	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			
4-Methylphenol	100	ug/l	FEQS	0	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			
Isophorone	7000	ug/l	USEPA	0	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			
2-Nitrophenol	7.7	ug/l	FEQS	0	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			
2,4-Dimethylphenol	100	ug/l	FEQS	0	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			
Bis(2-chloroethoxy)methane	#####	ug/l	Default	0	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			
2,4-Dichlorophenol	4.2	ug/l	FEQS	0	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			
4-Chloro-3-methylphenol	40	ug/l	FEQS	0	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			
2,4,6-trichlorophenol	200	ug/l	WHO	0	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			
2,4,5-Trichlorophenol	200	ug/l	WHO	0	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			
2-Methylnaphthalene	2	ug/l	FEQS	0	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			
2-Chloronaphthalene	2	ug/l	FEQS	0	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			
Dimethylphthalate	800	ug/l	FEQS	0	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			
2,6-Dinitrotoluene	100	ug/l	USEPA	0	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			
2,4-Dinitrotoluene	100	ug/l	USEPA	0	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			
Dibenzofuran	2	ug/l	FEQS	0	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			
Diethyl phthalate	200	ug/l	FEQS	0	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			
Bromophenyl phenyl ether	#####	ug/l	Default	0	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			
Hexachlorobenzene	1	ug/l	USEPA	0	< 0.05	< 0.05	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			
Phenanthrene	2	ug/l	FEQS	0	< 0.01	< 0.01									< 0.01	< 0.01	< 0.01	< 0.01	< 0.01			
Carbazole	2	ug/l	FEQS	0	< 0.05	< 0.05		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			
Di-n-butyl phthalate	8	ug/l	FEQS	0	< 0.05	< 0.05		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			
Butyl benzyl phthalate	7.5	ug/l	FEQS	0	< 0.05	< 0.05		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			
PCBs by GC-ECD - WHO 12																						
PCB Congener 77	25	ug/l	FEQS	0	< 0.020	< 0.020			< 0.001						< 0.020	< 0.020	< 0.020	< 0.020	< 0.020			
PCB Congener 81	25	ug/l	FEQS	0	< 0.020	< 0.020			< 0.001						< 0.020	< 0.020	< 0.020	< 0.020	< 0.020			
PCB Congener 105	25	ug/l	FEQS	0	< 0.020	< 0.020			< 0.001						< 0.020	< 0.020	< 0.020	< 0.020	< 0.020			
PCB Congener 114	25	ug/l	FEQS	0	< 0.020	< 0.020			< 0.001						< 0.020	< 0.020	< 0.020	< 0.020	< 0.020			
PCB Congener 118	25	ug/l	FEQS	0	< 0.020	< 0.020			< 0.002						< 0.020	< 0.020	< 0.020	< 0.020	< 0.020			

Appendix G

G9 Groundwater Downgradient

Assessment Scenario

Water Abstraction

					Summary															
Lab Sample ID	Screening value	Units	Screening standard	Number of Exceedances	1163610	1180865	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	945424	962605	980067	999568	
Client Sample No					ARP16-CP-BH51	ARP16-CP-BH51	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55
Client Sample ID					None Supplied	None Supplied	07/02/1900	07/02/1900	06/02/1900	08/02/1900	07/02/1900	07/02/1900	08/02/1900	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	
Depth to Top					None Supplied	27.71-31.82								None Supplied	None Supplied				35.94-51.87	
Depth to Bottom																				
Date Sampled					22/02/2019	19/03/2019	16/11/16	22/11/16	01/12/16	03/02/17	07/03/17	04/04/17	17/05/17	18/04/2018	16/05/2018	12/06/2018	10/07/2018			
Sample Type																None Supplied			1120	
PCB Congener 123	25	ug/l	FEQS	0	< 0.020	< 0.020				< 0.001						< 0.020	< 0.020	< 0.020	< 0.020	
PCB Congener 126	25	ug/l	FEQS	0	< 0.020	< 0.020				< 0.001						< 0.020	< 0.020	< 0.020	< 0.020	
PCB Congener 156	25	ug/l	FEQS	0	< 0.020	< 0.020				< 0.001						< 0.020	< 0.020	< 0.020	< 0.020	
PCB Congener 157	25	ug/l	FEQS	0	< 0.020	< 0.020				< 0.001						< 0.020	< 0.020	< 0.020	< 0.020	
PCB Congener 167	25	ug/l	FEQS	0	< 0.020	< 0.020				< 0.001						< 0.020	< 0.020	< 0.020	< 0.020	
PCB Congener 169	25	ug/l	FEQS	0	< 0.020	< 0.020				< 0.001						< 0.020	< 0.020	< 0.020	< 0.020	
PCB Congener 189	25	ug/l	FEQS	0	< 0.020	< 0.020				< 0.001						< 0.020	< 0.020	< 0.020	< 0.020	
PCBs	25	ug/l	FEQS	0	< 0.300	< 0.300										< 0.300	< 0.300	< 0.300	< 0.300	
Environmental Forensics																				
PFOS	0.3	ug/l	DWS	1	< 0.05	< 0.05										< 0.05	< 0.05	0.06	< 0.05	
PFOS	0.3	ug/l	DWS	0																
PFOA	0.3	ug/l	DWS	0	< 0.05	< 0.05										< 0.05	< 0.05	< 0.05	< 0.05	
Metaldehyde	0.1	ug/l	UK DWS	20	< 0.1	< 0.2										< 0.1	0.2	0.2	< 0.1	
Chloronitrotoluenes (sum)	10	ug/l	FEQS	0	< 0.1	< 0.1										< 0.1	< 0.1	< 0.1	< 0.1	
Chlorbufam	0.1	ug/l	UK DWS	0	< 0.10	< 0.10			< 1.0							< 0.10	< 0.10	< 0.10		
Chloroxuron	0.1	ug/l	UK DWS	0	< 0.10	< 0.10			< 0.1							< 0.10	< 0.10	< 0.10		
Chlorpropham	0.1	ug/l	UK DWS	0	< 0.10	< 0.10			< 1.0							< 0.10	< 0.10	< 0.10		
Ethiofencarb	0.1	ug/l	UK DWS	0	< 0.10	< 0.10			< 0.1							< 0.10	< 0.10	< 0.10		
Phenmedipham	0.1	ug/l	UK DWS	0	< 0.10	< 0.10			< 0.1							< 0.10	< 0.10	< 0.10		
Propham	0.1	ug/l	UK DWS	0	< 0.10	< 0.10			< 0.1							< 0.10	< 0.10	< 0.10		
Dimefuron	0.1	ug/l	UK DWS	0	< 0.10	< 0.10			< 0.1							< 0.10	< 0.10	< 0.10		
Metoxuron	0.1	ug/l	UK DWS	1	< 0.10	< 0.2			< 0.1							< 0.10	< 0.10	< 0.10		
Pencycuron	0.1	ug/l	UK DWS	0	< 0.10	< 0.10			< 0.1							< 0.10	< 0.10	< 0.10		
o,p-Methoxychlor	0.1	ug/l	UK DWS	0	< 0.01	< 0.01			< 0.01							< 0.01	< 0.01	< 0.01	< 0.01	
Demeton-s-methyl	0.1	ug/l	UK DWS	0	< 0.10	< 0.10										< 0.10	< 0.10	< 0.10		
Diclofop	0.1	ug/l	UK DWS	0	< 0.02	< 0.02			< 0.02							< 0.02	< 0.02	< 0.02		
Fenvalerate	0.1	ug/l	UK DWS	0	< 0.10	< 0.10			< 0.1							< 0.10	< 0.10	< 0.10	< 0.10	
Cyhalothrin	0.1	ug/l	UK DWS	0	< 0.10	< 0.10			< 0.1							< 0.10	< 0.10	< 0.10	< 0.10	
Ametryn	0.1	ug/l	UK DWS	0	< 0.10	< 0.10				< 0.1						< 0.10	< 0.10	< 0.10		
Atrazine-methoxy	0.1	ug/l	UK DWS	0	< 0.10	< 0.10			< 0.1							< 0.10	< 0.10	< 0.10		
Bromacil	0.1	ug/l	UK DWS	0	< 0.02	< 0.02				< 0.02						< 0.02	< 0.02	< 0.02		
Flamprop	0.1	ug/l	UK DWS	0	< 0.02	< 0.02			< 0.02							< 0.02	< 0.02	< 0.02		
Flamprop-isopropyl	0.1	ug/l	UK DWS	0	< 0.02	< 0.02			< 0.02							< 0.02	< 0.02	< 0.02		
Prometon	0.1	ug/l	UK DWS	0	< 0.10	< 0.10			< 0.1							< 0.10	< 0.10	< 0.10		
Simetryn	0.1	ug/l	UK DWS	0	< 0.10	< 0.10			< 0.1							< 0.10	< 0.10	< 0.10		
4-Nitrophenol	7.7	ug/l	FEQS	0	< 0.05	< 0.05			< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05	
Hexachlorocyclopentadiene	50	ug/l	USEPA	0	< 1	< 1			< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	
Perylene	2	ug/l	FEQS	0	< 1	< 1	< 1			< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	
n-Nitroso-n-dipropylamine	0.1	ug/l	UK DWS	0	< 1	< 1	< 1			< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	
Carbamates																				
Pirimicarb	100	ng/l	UK DWS	0	< 20	< 20			< 0.1							< 20	< 20	< 20		
Carbetamide	100	ng/l	UK DWS	0	< 20	< 200.00			< 0.1							< 20	< 20	< 20		
Phthalates																				
Bis(2-ethylhexyl)phthalate	8	ug/l	WHO	0	< 1.0	< 1.0			< 2	< 2	< 2	< 2	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Di-n-octyl phthalate	20	ug/l	FEQS	0	< 1.0	< 1.0			< 10	< 10	< 10	< 10	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Total phthalates	N/A	mg/l	-	0																
Glycols																				
Ethylene Glycol	ISSUE	mg/l	Default	0	< 10	< 10										< 10	< 10	< 10	< 10	
Diethylene Glycol	ISSUE	mg/l	Default	0	< 10	< 10										< 10	< 10	< 10	< 10	
1,2-Propanediol	ISSUE	mg/l	Default	0	< 10	< 10										< 10	< 10	< 10	< 10	
Rodenticides																				
Triazine Pesticides																				

Appendix G

G9 Groundwater Downgradient

Assessment Scenario

Water Abstraction

					Summary																		
Lab Sample ID	Screening value	Units	Screening standard	Number of Exceedances	1163610	1180865	ARP16-CP-BH51	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	945424	962605	980067	999568				
Client Sample No					ARP16-CP-BH51	ARP16-CP-BH51	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	
Client Sample ID					None Supplied	None Supplied	07/02/1900	07/02/1900	06/02/1900	08/02/1900	07/02/1900	07/02/1900	08/02/1900	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth to Top					None Supplied	27.71-31.82								None Supplied	None Supplied								35.94-51.87
Depth to Bottom					22/02/2019	19/03/2019	16/11/16	22/11/16	01/12/16	03/02/17	07/03/17	04/04/17	17/05/17	18/04/2018	16/05/2018	12/06/2018	10/07/2018	None Supplied	1120				
Date Sampled																							
Sample Type																							
Atrazine	0.1	ug/l	UK DWS	18	< 0.05	< 0.05		< 0.1								0.15	0.14	0.12					
Simazine	0.1	ug/l	UK DWS	0	< 0.05	< 0.05		< 0.1								< 0.05	< 0.05	< 0.05					
Prometryn	0.1	ug/l	UK DWS	0	< 0.05	< 0.05		< 0.1								< 0.05	< 0.05	< 0.05					
Propazine	0.1	ug/l	UK DWS	0	< 0.05	< 0.05		< 0.1								< 0.05	< 0.05	< 0.05					
Terbutylazine	0.1	ug/l	UK DWS	0	< 0.05	< 0.05		< 0.1								< 0.05	< 0.05	< 0.05					
Terbutryn	0.1	ug/l	UK DWS	0	< 0.05	< 0.05		< 0.1								< 0.05	< 0.05	< 0.05					
Acid herbicides esters																							
2,4-D Methyl Ester	0.1	ug/l	UK DWS	0	< 0.02	< 0.02										< 0.02	< 0.02	< 0.02					
2,4-D butyl ester	0.1	ug/l	UK DWS	0	< 0.10	< 0.10										< 0.10	< 0.10	< 0.10					
2,4-D ethyl ester	0.1	ug/l	UK DWS	0	< 0.10	< 0.10										< 0.10	< 0.10	< 0.10					
2,4-D isobutyl ester	0.1	ug/l	UK DWS	0	< 0.10	< 0.10										< 0.10	< 0.10	< 0.10					
2,4-D isopropyl ester	0.1	ug/l	UK DWS	0	< 0.10	< 0.10										< 0.10	< 0.10	< 0.10					
Acid Herbicides																							
2,3,6-TBA	0.1	ug/l	UK DWS	0	< 0.02	< 0.02		< 0.02								< 0.02	< 0.02	< 0.02					
Benazolin	0.1	ug/l	UK DWS	0	< 0.02	< 0.02		< 0.02								< 0.02	< 0.02	< 0.02					
Bromoxynil	0.1	ug/l	UK DWS	0	< 0.02	< 0.02		< 0.02								< 0.02	< 0.02	< 0.02					
Clopyralid	0.1	ug/l	UK DWS	0	< 0.20	< 0.02		< 0.02								< 0.02	< 0.02	< 0.02					
Ioxynil	0.1	ug/l	UK DWS	0	< 0.02	< 0.02		< 0.02								< 0.02	< 0.02	< 0.02					
2,4,5-T	0.1	ug/l	UK DWS	0	< 0.02	< 0.02		< 0.02								< 0.02	< 0.02	< 0.02					
2,4,5-TP	0.1	ug/l	UK DWS	0	< 0.02	< 0.02		< 0.02								< 0.02	< 0.02	< 0.02					
2,4-D	0.1	ug/l	UK DWS	1	< 0.02	< 0.02		< 0.02								< 0.02	< 0.02	< 0.02					
2,4-DB	0.1	ug/l	UK DWS	0	< 0.02	< 0.02		< 0.02								< 0.02	< 0.02	< 0.02					
Dicamba	0.1	ug/l	UK DWS	1	< 0.02	< 0.02		< 0.02								< 0.02	< 0.02	< 0.02					
Dichlorprop	0.1	ug/l	UK DWS	0	< 0.02	< 0.02		< 0.02								< 0.02	< 0.02	< 0.02					
MCPA	0.1	ug/l	UK DWS	0	< 0.02	< 0.02		< 0.02								< 0.02	< 0.02	< 0.02					
MCPB	0.1	ug/l	UK DWS	0	< 0.02	< 0.02		< 0.02								< 0.02	< 0.02	< 0.02					
Mecoprop	0.1	ug/l	UK DWS	15	< 0.02	< 0.02		< 0.02								0.03	0.03	0.02					
Picloram	0.1	ug/l	UK DWS	0	< 0.02	< 0.02		< 0.02								< 0.02	< 0.02	< 0.02					
4-Chlorophenoxyacetic acid	0.1	ug/l	UK DWS	0	< 0.02	< 0.02		< 0.02								< 0.02	< 0.02	< 0.02					
Organochlorine Pesticides																							
Aldrin	0.03	ug/l	UK DWS	0	< 0.01	< 0.01		< 0.01								< 0.01	< 0.01	< 0.01	< 0.01				
alpha-HCH (alpha-BHC)	0.1	ug/l	UK DWS	0	< 0.01	< 0.01		< 0.01								< 0.01	< 0.01	< 0.01	< 0.01				
beta-HCH (beta-BHC)	0.1	ug/l	UK DWS	0	< 0.01	< 0.01		< 0.01								< 0.01	< 0.01	< 0.01	< 0.01				
delta-HCH (delta-BHC)	0.1	ug/l	UK DWS	0	< 0.01	< 0.01		< 0.01								< 0.01	< 0.01	< 0.01	< 0.01				
Dieldrin	0.03	ug/l	UK DWS	0	< 0.01	< 0.01		< 0.01								< 0.01	< 0.01	< 0.01	< 0.01				
Endosulfan	0.1	ug/l	UK DWS	0	< 0.01	< 0.01		< 0.01								< 0.01	< 0.01	< 0.01	< 0.01				
Endosulfan Sulphate	0.1	ug/l	UK DWS	0	< 0.01	< 0.01		< 0.01								< 0.01	< 0.01	< 0.01	< 0.01				
Endrin	0.1	ug/l	UK DWS	0	< 0.01	< 0.01		< 0.01								< 0.01	< 0.01	< 0.01	< 0.01				
gamma-HCH (gamma-BHC)	0.1	ug/l	UK DWS	0	< 0.01	< 0.01		< 0.01								< 0.01	< 0.01	< 0.01	< 0.01				
Heptachlor	0.03	ug/l	UK DWS	0	< 0.01	< 0.01		< 0.01								< 0.01	< 0.01	< 0.01	< 0.01				
Heptachlor Epoxide	0.03	ug/l	UK DWS	0	< 0.01	< 0.01		< 0.01								< 0.01	< 0.01	< 0.01	< 0.01				
Isodrin	0.1	ug/l	UK DWS	0	< 0.01	< 0.01		< 0.01								< 0.01	< 0.01	< 0.01	< 0.01				
Methoxychlor	0.1	ug/l	UK DWS	0	< 0.01	< 0.01		< 0.01								< 0.01	< 0.01	< 0.01	< 0.01				
o,p-DDE	0.1	ug/l	UK DWS	0	< 0.01	< 0.01		< 0.01								< 0.01	< 0.01	< 0.01	< 0.01				
DDT	0.1	ug/l	UK DWS	0	< 0.01	< 0.01		< 0.01								< 0.01	< 0.01	< 0.01	< 0.01				
o,p-TDE (o,p-DDD)	0.1	ug/l	UK DWS	0	< 0.01	< 0.01		< 0.01								< 0.01	< 0.01	< 0.01	< 0.01				
p,p-DDE	0.1	ug/l	UK DWS	0	< 0.01	< 0.01		< 0.01								< 0.01	< 0.01	< 0.01	< 0.01				
DDT	0.1	ug/l	UK DWS	0	< 0.01	< 0.01		< 0.01								< 0.01	< 0.01	< 0.01	< 0.01				
p,p-TDE (o,p-DDD)	0.1	ug/l	UK DWS	0	< 0.01	< 0.01		< 0.01								< 0.01	< 0.01	< 0.01	< 0.01				
Trifluralin	0.1	ug/l	UK DWS	0	< 0.01	< 0.01		< 0.01								< 0.01	< 0.01	< 0.01	< 0.01				
Organonitrogen pesticides																							
Bentazone	0.1	ug/l	UK DWS	1	< 0.02	< 0.02		< 0.02								< 0.02	< 0.02	< 0.02					

Appendix G G9 Groundwater Downgradient

Assessment Scenario

Water Abstraction

					Summary																
Lab Sample ID	Screening value	Units	Screening standard	Number of Exceedances	1163610	1180865								945424	962605	980067	999568				
Client Sample No					ARP16-CP-BH51	ARP16-CP-BH51	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	
Client Sample ID																	None Supplied	None Supplied	None Supplied	None Supplied	
Depth to Top					None Supplied	None Supplied	07/02/1900	07/02/1900	06/02/1900	08/02/1900	07/02/1900	07/02/1900	08/02/1900	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	35.94-51.87
Depth to Bottom					None Supplied	27.71-31.82								None Supplied	None Supplied						
Date Sampled	22/02/2019	19/03/2019	16/11/16	22/11/16	01/12/16	03/02/17	07/03/17	04/04/17	17/05/17	18/04/2018	16/05/2018	12/06/2018	10/07/2018								
Sample Type																None Supplied	1120				
Chlorpyrifos	0.0001	mg/l	UK DWS	0				< 0.00001													
Pendimethalin	0.0001	mg/l	UK DWS	0				< 0.00001													
Bromoform	0.1	mg/l	WHO	0			< 0.001		< 0.001	< 0.001	< 0.001	< 0.001									
Methane	N/A	ug/l	-	0	< 0.1	< 0.1			< 1	< 1	< 2	< 2									

Appendix G

G9 Groundwater Downgradient

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Assessment Scenario

Water Abstraction

				Summary																	
Lab Sample ID	Screening value	Units	Screening standard	Number of Exceedances	1020265	1055396	1074207	1099111	1106504	1133264	1163629	1180867	ARP16-LF-BH01	ARP16-LF-BH01	ARP16-LF-BH01	ARP16-LF-BH01	ARP16-LF-BH01				
Client Sample No					ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-LF-BH01	ARP16-LF-BH01	ARP16-LF-BH01	ARP16-LF-BH01	ARP16-LF-BH01	
Client Sample ID					None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth to Top					None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth to Bottom					None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled					09/08/2018	27/09/2018	23/10/2018	22/11/2018	03/12/2018	16/01/2019	25/02/2019	19/03/2019	6/11/16	01/12/16	03/02/17	07/03/17	04/04/17				
Sample Type	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied				
Inorganics																					
General inorganics																					
pH	N/A	pH units	-	0	7	7	7	7	7	7	7	7.1									
Total Cyanide	50	ug/l	UK DWS	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5		< 5	< 5	< 5				
Complex Cyanides	50	ug/l	UK DWS	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5		< 5	< 5	< 5				
Free Cyanide	50	ug/l	UK DWS	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5		< 5	< 5	< 5				
Thiocyanate as SCN	50	ug/l	UK DWS	0	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200			< 100	< 100	< 100				
Sulphate as SO4	250000	ug/l	UK DWS	0	21900	27700	25300	22500	28200	26700	25200	28100			16000	19000	25000				
Sulphide	250000	ug/l	UK DWS	0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0			< 100	< 100	< 100				
Chloride	250	mg/l	UK DWS	0	110	110	100	110	110	110	110	140			85.3	87.67	102				
Fluoride	1500	ug/l	UK DWS	0	160	110	210	240	170	150	200	210			150	230	190				
Ammoniacal Nitrogen as N	390	ug/l	UK DWS	22	280	270	320	290	320	290	220	350			< 20	< 20	< 20				
Nitrate as N	11.3	mg/l	UK DWS	1	0.59	0.41	0.47	0.22	0.44	0.56	0.77	1.02									
Nitrate as NO3	50	mg/l	UK DWS	2	2.63	1.81	2.08	0.96	1.97	2.5	3.42	4.52			9.56	10.98	3.82				
Nitrite as N	160	ug/l	UK DWS	4	89	26	18	8.6	30	7	18	23									
Nitrite as NO2	500	ug/l	UK DWS	4	290	86	59	28	97	23	58	75			< 100	< 100	< 100				
Alkalinity	N/A	mg/l	-	0	560	450	470	170	160	580	500	500			236	235	194				
Chemical Oxygen Demand (COD)	N/A	mg/l	-	0	4.7	14	< 2.0	15	12	9.6	9.9	13	17		11	< 6	8				
Biological Oxygen Demand (BOD)	N/A	mg/l	-	0	< 1.0	< 1.0	< 1.0	1.3	< 1.0	< 1.0	8.7	< 1.0	< 1		< 1	< 1	< 1				
Total Oxidised N (Nitrate/-ite)	11.3	mg/l	UK DWS	2	0.7	0.4	0.5	< 0.3	0.5	0.6	0.8	1			2.2	2.5	0.9				
Total Suspended Solids	N/A	mg/l	-	0	440	160	340	0	440	140	38	360	5		1904	709	8358				
Hardness - Total	N/A	mg/l	-	0	394	453	417	339	495	401	456	430			267	299	322				
Bromide	N/A	mg/l	-	0	0.45	0.54	0.6	0.55	0.96	0.42	0.46	0.47									
Bromate	0.01	mg/l	UK DWS	0	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002									
Phenols																					
Catechol	7.7	ug/l	FEQS	0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5									
Resorcinol	7.7	ug/l	FEQS	0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10		< 10	< 10	< 10				
Ethylphenol & Dimethylphenol	100	ug/l	FEQS	0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5									
Cresols	100	ug/l	FEQS	0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10		< 10	< 10	< 10				
Naphthols	7.7	ug/l	FEQS	0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5									
Isopropylphenol	7.7	ug/l	FEQS	0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5									
Phenol	7.7	ug/l	FEQS	0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10		< 10	< 10	< 10				
Trimethylphenol	100	ug/l	FEQS	0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5									
Speciated PAHs																					
Naphthalene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 1	< 0.01	< 0.02	< 0.01				
Acenaphthylene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 1	< 0.01	< 0.02	< 0.01				
Acenaphthene	2000	ug/l	USEPA	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 1	< 0.01	< 0.02	< 0.01				
Fluorene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 1	< 0.01	< 0.02	< 0.01				
Phenanthrene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 1	< 0.01	< 0.02	< 0.01				
Anthracene	0.1	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 1	< 0.01	< 0.02	< 0.01				
Fluoranthene	0.0063	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 1	< 0.01	< 0.02	< 0.01				
Pyrene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.02	< 1	< 0.01	< 0.02	< 0.01				
Benzo(a)anthracene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 1	< 0.01	< 0.02	< 0.01				
Chrysene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 1	< 0.01	< 0.02	< 0.01				
Benzo(b)fluoranthene	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 1	< 0.01	< 0.02	< 0.01				
Benzo(k)fluoranthene	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 1	< 0.01	< 0.02	< 0.01				
Benzo(a)pyrene	0.01	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 1	< 0.01	< 0.02	< 0.01				
Indeno(1,2,3-cd)pyrene	0.1	ug/l	UK DWS	0	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 1	< 0.01	< 0.02	< 0.01				
Dibenzo(a,h)anthracene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 1	< 0.01	< 0.02	< 0.01				
Benzo(g,h,i)perylene	0.1	ug/l	UK DWS	0	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 1	< 0.01	< 0.02	< 0.01				
Heavy metals and metalloids																					

Appendix G

G9 Groundwater Downgradient

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Assessment Scenario

Water Abstraction

					Summary												
Lab Sample ID	Screening value	Units	Screening standard	Number of Exceedances	1020265	1055396	1074207	1099111	1106504	1133264	1163629	1180867	ARP16-LF-BH01	ARP16-LF-BH01	ARP16-LF-BH01	ARP16-LF-BH01	ARP16-LF-BH01
Client Sample No					ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	None Supplied	None Supplied
Client Sample ID					None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	39.73	39.34	40.49	38.97	40.23
Depth to Top					None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	39.23-52.25				
Depth to Bottom																	
Date Sampled					09/08/2018	27/09/2018	23/10/2018	22/11/2018	03/12/2018	16/01/2019	25/02/2019	19/03/2019	6/11/16	01/12/16	03/02/17	07/03/17	04/04/17
Sample Type					None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied					
Antimony	5	ug/l	UK DWS	0	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	0.5	< 0.4	< 0.4			< 1	< 1	< 1
Arsenic	10	ug/l	UK DWS	0	1.03	0.86	0.2	< 0.15	0.22	0.39	0.26	0.46	< 1		< 1	< 1	< 1
Barium	700	ug/l	WHO	0	170	140	130	140	130	140	140	110	112				
Beryllium	4	ug/l	USEPA	0	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 1		< 1	< 1	< 1
Boron	1000	ug/l	UK DWS	1	240	200	160	140	180	150	170	180	36				
Cadmium >200mg/l CaCO3	5	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.03	< 0.02	< 0.02	< 0.2		< 0.2	< 0.2	< 0.2
Calcium	N/A	mg/l	-	0	150	180	160	130	190	160	180	170		105	117	126	
Chromium VI	3.4	ug/l	FEQS	2	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10		< 10	< 10	< 10
Chromium III	4.7	ug/l	FEQS	0	3.3	< 1.0	< 1.0	< 1.0	< 1.0	1.1	< 1.0	< 1.0					
Chromium Total	50	ug/l	UK DWS	0	3.3	0.6	0.8	0.7	0.7	1.1	1	0.9	< 1		< 1	< 1	7
Copper (bioavailable), DOC <1mg/l	2000	ug/l	UK DWS	0	4.6	1.4	1.7	1.8	2.9	2.2	4.8	1.6	1		2	1	1
Iron	0.2	mg/l	UK DWS	2	< 0.004	0.029	0.004	< 0.004	< 0.004	< 0.004	< 0.004	0.1		< 0.01	0.019	< 0.01	
Lead	10	ug/l	UK DWS	0	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 1		< 1	< 1	< 1
Magnesium	N/A	mg/l	-	0	2.2	3.1	2.6	2.2	2.7	2.6	2.2	2.8		1	1	2	
Manganese (bioavailable)	50	ug/l	UK DWS	26	18	29	19	21	27	27	15	29		4	1	< 1	
Mercury	1	ug/l	UK DWS	2	< 0.05	< 0.05	0.1	< 0.05	< 0.05	0.08	< 0.05	0.09	< 0.1		< 0.1	< 0.1	< 0.1
Molybdenum	70	ug/l	WHO	0	1.2	2	0.9	0.68	0.99	0.97	0.99	0.92					
Nickel >200 mg/l CaCO3	20	ug/l	UK DWS	2	3.7	3	3.2	2.7	3.7	3.2	2.8	2.8	< 1		1	< 1	< 1
Potassium	N/A	mg/l	-	0	1.4	2	1.7	1.3	1.7	1.7	1.5	2		2	1	2	
Selenium	10	ug/l	UK DWS	0	1.5	3.1	0.8	1.9	2.1	2	< 0.6	< 0.6	< 1		< 1	< 1	< 1
Sodium	50	mg/l	WHO	26	47	41	50	37	56	48	52	58		39	53	55	
Vanadium	20	ug/l	FEQS	0	0.6	0.6	0.4	0.2	0.4	0.4	0.3	0.6	< 1		< 1	< 1	< 1
Zinc >250 mg/l CaCO3	5000	ug/l	USEPA	0	7.9	1.3	3.6	2.9	4.4	2.7	8.7	2.6	13		6	2	2
Monoaromatics																	
Benzene	1	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1
Toluene	74	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1
Ethylbenzene	20	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1
Xylenes	30	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0					
MTBE	15	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1
Petroleum hydrocarbons																	
TPH	N/A	ug/l	-	0									< 5		< 5	< 5	< 5
TPH >C5-C6 Aliphatics	15000	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1
TPH >C6-C8 Aliphatics	15000	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1
TPH >C8-C10 Aliphatics	300	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1
TPH >C10-C12 Aliphatics	300	ug/l	WHO	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5		< 5	< 5	< 5
TPH >C12-C16 Aliphatics	300	ug/l	WHO	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5		< 5	< 5	< 5
TPH >C16-C21 Aliphatics	300	ug/l	WHO	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5		< 5	< 5	< 5
TPH >C21-C35 Aliphatics	300	ug/l	WHO	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5		< 5	< 5	< 5
TPH-CWG - Aliphatic >C16 - C35	300	ug/l	WHO	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10					
TPH-CWG - Aliphatic >C35 - C44	300	ug/l	WHO	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10		< 5	< 5	< 5	< 5
C5-C35 Aliphatics	N/A	ug/l	-	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10					
TPH-CWG - Aliphatic (C5 - C44)	N/A	ug/l	-	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10					
TPH >C5-C6 Aromatics	10	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1
TPH >C7-C8 Aromatics	700	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1
TPH >C8-C9 Aromatics	300	ug/l	WHO	0									< 1		< 1	< 1	< 1
TPH >C9-C10 Aromatics	300	ug/l	WHO	0									< 1		< 1	< 1	< 1
TPH >C8-C10 Aromatics	300	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0					
TPH >C10-C12 Aromatics	90	ug/l	WHO	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5	< 5	< 5	< 5	< 5
TPH >C12-C16 Aromatics	90	ug/l	WHO	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5	< 5	< 5	< 5	< 5
TPH >C16-C21 Aromatics	90	ug/l	WHO	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5	< 5	< 5	< 5	< 5
TPH >C21-C35 Aromatics	90	ug/l	WHO	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5	< 5	< 5	< 5	< 5
TPH >C35-C44 Aromatics	90	ug/l	WHO	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5	< 5	< 5	< 5	< 5

Appendix G

G9 Groundwater Downgradient

1000

Assessment Scenario

Water Abstraction

Lab Sample ID	Screening value	Units	Screening standard	Summary														
				Number of Exceedances	1020265	1055396	1074207	1099111	1106504	1133264	1163629	1180867	ARP16-LF-BH01	ARP16-LF-BH01	ARP16-LF-BH01	ARP16-LF-BH01	ARP16-LF-BH01	
Client Sample No					ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-LF-BH01	ARP16-LF-BH01	ARP16-LF-BH01	ARP16-LF-BH01	ARP16-LF-BH01
Client Sample ID					None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth to Top					None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	39.73	39.34	40.49	38.97	40.23
Depth to Bottom													None Supplied	39.23-52.25				
Date Sampled					09/08/2018	27/09/2018	23/10/2018	22/11/2018	03/12/2018	16/01/2019	25/02/2019	19/03/2019	6/11/16	01/12/16	03/02/17	07/03/17	04/04/17	
Sample Type					None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied						
C5-C35 Aromatics	N/A	ug/l	-	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10					
C5-C35 Aromatics	N/A	ug/l	-	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10					
VOCs																		
Chloromethane	20	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10		< 10	< 10	< 10
Chloroethane	3	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1
Bromomethane	100	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1
Vinyl Chloride	0.5	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1
Trichlorofluoromethane	2.5	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1
1,1-Dichloroethene	7	ug/l	USEPA	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1
1,1,2-Trichloro-1,2,2-trifluoroethane	400	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0					
Cis-1,2 Dichloroethene	50	ug/l	WHO	0	< 1.0	< 1.0	1.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1
MTBE	15	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1
1,1 -Dichloroethane	3	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1
2,2-Dichloropropane	40	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1
Trichloromethane	2.5	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1
1,1,1-Trichloroethane	100	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1
1,2-Dichloroethane	3	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2		< 2	< 2	< 2
1,1-Dichloropropene	20	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1
Trans-1,2 Dichloroethene	50	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1
Benzene	1	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1
Tetrachloromethane	3	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1
1,2-Dichloropropane	40	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1
Trichloroethene	10	ug/l	UK DWS	2	< 1.0	< 1.0	6.2	60.5	8.7	< 1.0	7	10.1	< 1		< 1	< 1	< 1	< 1
Dibromomethane	100	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1
Bromodichloromethane	100	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10		< 10	< 10	< 10
Cis-1,3 Dichloropropene	20	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1
Trans-1,3 Dichloropropene	20	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1
Toluene	74	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0					
1,1,2-Trichloroethane	400	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1
1,3-Dichloropropane	40	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1
Dibromochloromethane	100	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 3		< 3	< 3	< 3
Tetrachloroethene	10	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1
1,2-Dibromoethane	0.4	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1
Chlorobenzene	0.4	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1
1,1,1,2-Tetrachloroethane	400	ug/l	USEPA	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1
Ethylbenzene	20	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0					
m,p-Xylenes	30	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1
Styrene	20	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1
Tribromomethane	#####	ug/l	Default	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0					
o-Xylene	30	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	400	ug/l	USEPA	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1
Iso-propylbenzene	1	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1
Bromobenzene	1	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1
Propylbenzene	1	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1
2-Chlorotoluene	700	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1
4-Chlorotoluene	700	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1
1,3,5 Trimethylbenzene	1	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1
tert-Butylbenzene	1	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2		< 2	< 2	< 2
1,2,4 Trimethylbenzene	1	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1
sec-Butylbenzene	1	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1
1,3 Dichlorobenzene	3000	ug/l	USEPA	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1
p-Isopropyltoluene	74	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1
1,2-Dichlorobenzene	1000	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1

Appendix G

G9 Groundwater Downgradient

1000

Assessment Scenario

Water Abstraction

					Summary												
Lab Sample ID	Screening value	Units	Screening standard	Number of Exceedances	1020265	1055396	1074207	1099111	1106504	1133264	1163629	1180867	ARP16-LF-BH01	ARP16-LF-BH01	ARP16-LF-BH01	ARP16-LF-BH01	ARP16-LF-BH01
Client Sample No					ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-LF-BH01	ARP16-LF-BH01
Client Sample ID	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	39.73	39.34	40.49	38.97	40.23
Depth to Top	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	39.23-52.25				
Depth to Bottom																	
Date Sampled	09/08/2018	27/09/2018	23/10/2018	22/11/2018	03/12/2018	16/01/2019	25/02/2019	19/03/2019	6/11/16	01/12/16	03/02/17	07/03/17	04/04/17				
Sample Type	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied									
1,4 Dichlorobenzene	300	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1
n-Butylbenzene	1	ug/l	UK DWS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1
1,2-Dibromo-3-chloropropane	1	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2	< 2	< 2	< 2	< 2
1,2,4-Trichlorobenzene	70	ug/l	USEPA	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 3	< 1	< 3	< 3	< 3
Hexachlorobutadiene	0.6	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1
2,6 Chloronitrotoluene	700	ug/l	WHO	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1					
4,2 Chloronitrotoluene	700	ug/l	WHO	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1					
4,3 Chloronitrotoluene	700	ug/l	WHO	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1					
2,4 Chloronitrotoluene	700	ug/l	WHO	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1					
2,5 Chloronitrotoluene	700	ug/l	WHO	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1					
1,2,3-Trichlorobenzene	0.4	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 3		< 3	< 3	< 3
1,2,3-Trichloropropane	40	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1
1,3,5-Trichlorobenzene	0.4	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0					
Bromochloromethane	100	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5		< 5	< 5	< 5
Dichloromethane	20	ug/l	FEQS	0	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 3.0	< 3.0	< 5		< 5	< 5
Carbon disulphide	#####	ug/l	Default	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1
Dichlorodifluoromethane	20	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1		< 1	< 1	< 1
SVOCs																	
Phenol	7.7	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 1	< 1	< 1	< 1
2-Chlorophenol	50	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 1	< 1	< 1	< 1
Bis(2-chloroethyl)ether	1000	ug/l	USEPA	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 1	< 1	< 1	< 1
Bis(2-chloroisopropyl)ether	1000	ug/l	USEPA	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 1	< 1	< 1	< 1
2-Methylphenol	100	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 1	< 1	< 1	< 1
Hexachloroethane	40	ug/l	USEPA	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 1	< 1	< 1	< 1
Nitrobenzene	1	ug/l	UK DWS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 1	< 1	< 1	< 1
4-Methylphenol	100	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 1	< 1	< 1	< 1
Isophorone	7000	ug/l	USEPA	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 1	< 1	< 1	< 1
2-Nitrophenol	7.7	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 1	< 1	< 1	< 1
2,4-Dimethylphenol	100	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 1	< 1	< 1	< 1
Bis(2-chloroethoxy)methane	#####	ug/l	Default	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 1	< 1	< 1	< 1
2,4-Dichlorophenol	4.2	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 1	< 1	< 1	< 1
4-Chloro-3-methylphenol	40	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 1	< 1	< 1	< 1
2,4,6-trichlorophenol	200	ug/l	WHO	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 1	< 1	< 1	< 1
2,4,5-Trichlorophenol	200	ug/l	WHO	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 1	< 1	< 1	< 1
2-Methylnaphthalene	2	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 1	< 1	< 1	< 1
2-Chloronaphthalene	2	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 1	< 1	< 1	< 1
Dimethylphthalate	800	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 1	< 1	< 1	< 1
2,6-Dinitrotoluene	100	ug/l	USEPA	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 1	< 1	< 1	< 1
2,4-Dinitrotoluene	100	ug/l	USEPA	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 1	< 1	< 1	< 1
Dibenzofuran	2	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 1	< 1	< 1	< 1
Diethyl phthalate	200	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 1	< 1	< 1	< 1
Bromophenyl phenyl ether	#####	ug/l	Default	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 1	< 1	< 1	< 1
Hexachlorobenzene	1	ug/l	USEPA	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 1	< 1	< 1	< 1	< 1
Phenanthrene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 1	< 1	< 1	< 1
Carbazole	2	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 1	< 1	< 1	< 1
Di-n-butyl phthalate	8	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 1	< 1	< 1	< 1
Butyl benzyl phthalate	7.5	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 1	< 1	< 1	< 1
PCBs by GC-ECD - WHO 12																	
PCB Congener 77	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.001		< 0.002	
PCB Congener 81	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.001		< 0.002	
PCB Congener 105	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.001		< 0.002	
PCB Congener 114	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.001		< 0.002	
PCB Congener 118	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.002		< 0.004	

Appendix G

G9 Groundwater Downgradient

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Assessment Scenario

Water Abstraction

					Summary												
Lab Sample ID	Screening value	Units	Screening standard	Number of Exceedances	1020265	1055396	1074207	1099111	1106504	1133264	1163629	1180867	ARP16-LF-BH01	ARP16-LF-BH01	ARP16-LF-BH01	ARP16-LF-BH01	ARP16-LF-BH01
Client Sample No					ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	None Supplied	None Supplied
Client Sample ID	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	39.73	39.34	40.49	38.97	40.23
Depth to Top	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	39.23-52.25				
Depth to Bottom																	
Date Sampled	09/08/2018	27/09/2018	23/10/2018	22/11/2018	03/12/2018	16/01/2019	25/02/2019	19/03/2019	6/11/16	01/12/16	03/02/17	07/03/17	04/04/17				
Sample Type	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied					
PCB Congener 123	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.001			< 0.002	
PCB Congener 126	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.001			< 0.002	
PCB Congener 156	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.001			< 0.002	
PCB Congener 157	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.001			< 0.002	
PCB Congener 167	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.001			< 0.002	
PCB Congener 169	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.001			< 0.002	
PCB Congener 189	25	ug/l	FEQS	0	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.001			< 0.002	
PCBs	25	ug/l	FEQS	0	< 0.300	< 0.300	< 0.300	< 0.300	< 0.300	< 0.300	< 0.300	< 0.300					
Environmental Forensics																	
PFOS	0.3	ug/l	DWS	1	< 0.05	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05					
PFOS	0.3	ug/l	DWS	0													
PFOA	0.3	ug/l	DWS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05					
Metaldehyde	0.1	ug/l	UK DWS	20	0.1	0.1	0.1	< 0.1	0.1	0.2	0.1	< 0.2					
Chloronitrotoluenes (sum)	10	ug/l	FEQS	0	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1					
Chlorbufam	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 1.0	< 0.1	< 0.1	< 0.1	
Chloroxuron	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.1	< 0.1	< 0.1	< 0.1	
Chlorpropham	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 1.0	< 0.1	< 0.1	< 0.1	
Ethiofencarb	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.1	< 0.1	< 0.1	< 0.1	
Phenmedipham	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.1	< 0.1	< 0.1	< 0.1	
Propam	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.1	< 0.1	< 0.1	< 0.1	
Dimefuron	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.1	< 0.1	< 0.1	< 0.1	
Metoxuron	0.1	ug/l	UK DWS	1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	
Pencycuron	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.1	< 0.1	< 0.1	< 0.1	
o,p-Methoxychlor	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	
Demeton-s-methyl	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.01	< 0.01	< 0.01	< 0.01	
Diclofop	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Fenvalerate	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.1	< 0.1	< 0.1	< 0.1	
Cyhalothrin	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.1	< 0.1	< 0.1	< 0.1	
Ametryn	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.1	< 0.1	< 0.1	< 0.1	
Atrazine-methoxy	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.1	< 0.1	< 0.1	< 0.1	
Bromacil	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Flamprop	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Flamprop-isopropyl	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Prometon	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.1	< 0.1	< 0.1	< 0.1	
Simetryn	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.1	< 0.1	< 0.1	< 0.1	
4-Nitrophenol	7.7	ug/l	FEQS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 1	< 1	< 1	< 1	
Hexachlorocyclopentadiene	50	ug/l	USEPA	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	
Perylene	2	ug/l	FEQS	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	
n-Nitroso-n-dipropylamine	0.1	ug/l	UK DWS	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	
Carbamates																	
Pirimicarb	100	ng/l	UK DWS	0	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 100	< 100	< 100	< 100	
Carbetamide	100	ng/l	UK DWS	0	< 20	< 20	< 20	< 100.00	< 200.00	< 20	< 20	< 200.00	< 100	< 100	< 100	< 100	
Phthalates																	
Bis(2-ethylhexyl)phthalate	8	ug/l	WHO	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2	< 2	< 2	< 2	
Di-n-octyl phthalate	20	ug/l	FEQS	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	< 10	< 10	< 10	
Total phthalates	N/A	mg/l	-	0	< 3.5												
Glycols																	
Ethylene Glycol	ISSUE	mg/l	Default	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10					
Diethylene Glycol	ISSUE	mg/l	Default	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10					
1,2-Propanediol	ISSUE	mg/l	Default	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10					
Rodenticides																	
Triazine Pesticides																	

Appendix G

G9 Groundwater Downgradient

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Assessment Scenario

Water Abstraction

					Summary																
Lab Sample ID	Screening value	Units	Screening standard	Number of Exceedances	1020265	1055396	1074207	1099111	1106504	1133264	1163629	1180867	ARP16-LF-BH01	ARP16-LF-BH01	ARP16-LF-BH01	ARP16-LF-BH01	ARP16-LF-BH01				
Client Sample No					ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-LF-BH01	ARP16-LF-BH01	ARP16-LF-BH01	ARP16-LF-BH01	ARP16-LF-BH01	
Client Sample ID					None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth to Top					None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth to Bottom					None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled					09/08/2018	27/09/2018	23/10/2018	22/11/2018	03/12/2018	16/01/2019	25/02/2019	19/03/2019	6/11/16	01/12/16	03/02/17	07/03/17	04/04/17				
Sample Type	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied				
Atrazine	0.1	ug/l	UK DWS	18	0.13	0.14	0.14	< 0.05	0.14	0.15	0.16	0.18					< 0.1	< 0.1	< 0.1		
Simazine	0.1	ug/l	UK DWS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05					< 0.1	< 0.1	< 0.1		
Prometryn	0.1	ug/l	UK DWS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05					< 0.1	< 0.1	< 0.1		
Propazine	0.1	ug/l	UK DWS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05					< 0.1	< 0.1	< 0.1		
Terbutylazine	0.1	ug/l	UK DWS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05					< 0.1	< 0.1	< 0.1		
Terbutryn	0.1	ug/l	UK DWS	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05					< 0.1	< 0.1	< 0.1		
Acid herbicides esters																					
2,4-D Methyl Ester	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02									
2,4-D butyl ester	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10									
2,4-D ethyl ester	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10									
2,4-D isobutyl ester	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10									
2,4-D isopropyl ester	0.1	ug/l	UK DWS	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10									
Acid Herbicides																					
2,3,6-TBA	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.020	< 0.02					< 0.02	< 0.02	< 0.02		
Benazolin	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02					< 0.02	< 0.02	< 0.02		
Bromoxynil	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02					< 0.02	< 0.02	< 0.02		
Clopyralid	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.20	< 0.20	< 0.02					< 0.02	< 0.02	< 0.02		
Ioxynil	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02					< 0.02	< 0.02	< 0.02		
2,4,5-T	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02					< 0.02	< 0.02	< 0.02		
2,4,5-TP	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02					< 0.02	< 0.02	< 0.02		
2,4-D	0.1	ug/l	UK DWS	1	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02					< 0.02	< 0.02	< 0.02		
2,4-DB	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02					< 0.02	< 0.02	< 0.02		
Dicamba	0.1	ug/l	UK DWS	1	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02					< 0.02	< 0.02	< 0.02		
Dichlorprop	0.1	ug/l	UK DWS	0	< 0.02	0.02	< 0.02	0.02	< 0.02	0.02	< 0.02	< 0.02					< 0.02	< 0.02	< 0.02		
MCPA	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02					< 0.02	< 0.02	< 0.02		
MCPB	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02					< 0.02	< 0.02	< 0.02		
Mecoprop	0.1	ug/l	UK DWS	15	0.09	0.09	0.09	0.09	0.09	0.08	0.06	0.07					< 0.02	< 0.02	< 0.02		
Picloram	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02					< 0.02	< 0.02	< 0.02		
4-Chlorophenoxyacetic acid	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02					< 0.02	< 0.02	< 0.02		
Organochlorine Pesticides																					
Aldrin	0.03	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01					< 0.01	< 0.01	< 0.01		
alpha-HCH (alpha-BHC)	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01					< 0.01	< 0.01	< 0.01		
beta-HCH (beta-BHC)	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01					< 0.01	< 0.01	< 0.01		
delta-HCH (delta-BHC)	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01					< 0.01	< 0.01	< 0.01		
Dieldrin	0.03	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01					< 0.01	< 0.01	< 0.01		
Endosulfan	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01					< 0.01	< 0.01	< 0.01		
Endosulfan	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01					< 0.01	< 0.01	< 0.01		
Endosulfan Sulphate	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01					< 0.01	< 0.01	< 0.01		
Endrin	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01					< 0.01	< 0.01	< 0.01		
gamma-HCH (gamma-BHC)	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01					< 0.01	< 0.01	< 0.01		
Heptachlor	0.03	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01					< 0.01	< 0.01	< 0.01		
Heptachlor Epoxide	0.03	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01					< 0.01	< 0.01	< 0.01		
Isodrin	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01					< 0.01	< 0.01	< 0.02		
Methoxychlor	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01					< 0.01	< 0.01	< 0.02		
o,p-DDE	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01					< 0.01	< 0.01	< 0.01		
DDT	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01					< 0.01	< 0.01	< 0.01		
o,p-TDE (o,p-DDD)	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01					< 0.01	< 0.01	< 0.01		
p,p-DDE	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01					< 0.01	< 0.01	< 0.01		
DDT	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01					< 0.01	< 0.01	< 0.02		
p,p-TDE (o,p-DDD)	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01					< 0.01	< 0.01	< 0.01		
Trifluralin	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01					< 0.01	< 0.01	< 0.01		
Organonitrogen pesticides																					
Bentazone	0.1	ug/l	UK DWS	1	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02					< 0.02	< 0.02	< 0.02		

Appendix G G9 Groundwater Downgradient

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Assessment Scenario

Water Abstraction

					Summary																
Lab Sample ID	Screening value	Units	Screening standard	Number of Exceedances	1020265	1055396	1074207	1099111	1106504	1133264	1163629	1180867									
Client Sample No					ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-CP-BH55	ARP16-LF-BH01	ARP16-LF-BH01	ARP16-LF-BH01	ARP16-LF-BH01	ARP16-LF-BH01	ARP16-LF-BH01	
Client Sample ID					None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth to Top					None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth to Bottom													45.00								
Date Sampled																39.73	39.34	40.49	38.97	40.23	
Sample Type																39.23-52.25					
Chlorpyrifos	0.0001	mg/l	UK DWS	0																	
Pendimethalin	0.0001	mg/l	UK DWS	0																	
Bromoform	0.1	mg/l	WHO	0								< 0.001		< 0.001	< 0.001	< 0.001	< 0.001				
Methane	N/A	ug/l	-	0						0.2	< 0.1			4	< 1	< 2	< 2				

Appendix G

G9 Groundwater Downgradient

Assessment Scenario

Water Abstraction

					Summary																
Lab Sample ID	Screening value	Units	Screening standard	Number of Exceedances	ARP16-LF-BH01	ARP16-LF-BH05	ARP16-LF-BH05	ARP16-LF-BH05	ARP16-LF-BH05	949607	962834	983105	999559	1022120	1055393	1075117	1102000				
Client Sample No					ARP16-LF-BH01	ARP16-LF-BH05	ARP16-LF-BH05	ARP16-LF-BH05	ARP16-LF-BH05	ARP16-LF-BH05	ARP16-LF-BH05	ARP16-LF-BH05	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Client Sample ID													None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth to Top					41.32	46.01	40.62	39.60	39.61				None Supplied	None Supplied	None Supplied	34.00-57.55	None Supplied	None Supplied	None Supplied	None Supplied	34.70-52.45
Depth to Bottom													45.00	None Supplied							
Date Sampled					17/05/17	09/02/17	15/03/17	06/04/17	16/05/17				25/04/2018	17/05/2018	14/06/2018	11/07/2018	13/08/2018	27/09/2018	24/10/2018	26/11/2018	
Sample Type											None Supplied	1505	None Supplied	None Supplied	None Supplied	None Supplied	0830				
Inorganics																					
Organics																					
General inorganics																					
pH	N/A	pH units	-	0	< 5	< 5	< 5	< 5	< 5	6.9	6.7	6.7	6.7	7	6.7	6.7	6.7				
Total Cyanide	50	ug/l	UK DWS	0	< 5	< 5	< 5	< 5	< 5	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10				
Complex Cyanides	50	ug/l	UK DWS	0	< 5	< 5	< 5	< 5	< 5	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10				
Free Cyanide	50	ug/l	UK DWS	0	< 5	< 5	< 5	< 5	< 5	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10				
Thiocyanate as SCN	50	ug/l	UK DWS	0	< 100	< 100	< 100	< 100	< 100	< 200	310	290	< 200	< 200	< 200	< 200	< 200				
Sulphate as SO4	250000	ug/l	UK DWS	0	27000	94000	25000	24000	22000	40000	31800	20400	16900	22800	28900	58100	27900				
Sulphide	250000	ug/l	UK DWS	0	< 100	< 100	< 100	< 100	< 100	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0				
Chloride	250	mg/l	UK DWS	0	109	19.89	18.24	18.13	17	19	19	16	16	15	18	22	20				
Fluoride	1500	ug/l	UK DWS	0	290	< 100	100	100	250	84	69	100	72	69	< 50	100	130				
Ammoniacal Nitrogen as N	390	ug/l	UK DWS	22	< 20	< 20	40	60	150	150	51	< 15	47	91	36	47	43				
Nitrate as N	11.3	mg/l	UK DWS	1						10.6	11.9	14.5	15.6	16.1	13.3	0.12	0.33				
Nitrate as NO3	50	mg/l	UK DWS	2	16.18	37.64	64.4	54.6	48.02	46.8	52.9	64.2	69.1	71.1	58.8	0.53	1.44				
Nitrite as N	160	ug/l	UK DWS	4						6.4	44	6.4	3.1	18	20	27	< 1.0				
Nitrite as NO2	500	ug/l	UK DWS	4	< 100	< 100	< 100	< 100	< 100	21	140	21	10	58	66	87	< 5.0				
Alkalinity	N/A	mg/l	-	0	236	393	409	401	393	630	660	800	750	650	460	730	330				
Chemical Oxygen Demand (COD)	N/A	mg/l	-	0	12	9	< 6	< 6	148	< 2.0	28	< 2.0	2.2	13	8.4	10	4.7				
Biological Oxygen Demand (BOD)	N/A	mg/l	-	0	2	< 1	2	4	2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.7	1.7				
Total Oxidised N (Nitrate/-ite)	11.3	mg/l	UK DWS	2	3.7	8.5	14.5	12.3	10.8	11	12	15	16	16	13	< 0.3	0.3				
Total Suspended Solids	N/A	mg/l	-	0	1674	1734	296	95	7533	250	160	230	180	190	130	110	190				
Hardness - Total	N/A	mg/l	-	0	330	550	559	635	609	500	444	548	436	610	633	596	496				
Bromide	N/A	mg/l	-	0						0.29	0.28	0.36	0.29	0.29	0.38	0.47	1.5				
Bromate	0.01	mg/l	UK DWS	0						< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002				
Phenols																					
Catechol	7.7	ug/l	FEQS	0						< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5				
Resorcinol	7.7	ug/l	FEQS	0	< 10	< 10	< 10	< 10	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5				
Ethylphenol & Dimethylphenol	100	ug/l	FEQS	0						< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5				
Cresols	100	ug/l	FEQS	0	< 10	< 10	< 10	< 10	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5				
Naphthols	7.7	ug/l	FEQS	0						< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5				
Isopropylphenol	7.7	ug/l	FEQS	0						< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5				
Phenol	7.7	ug/l	FEQS	0	< 10	< 10	< 10	< 10	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5				
Trimethylphenol	100	ug/l	FEQS	0						< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5				
Speciated PAHs																					
Naphthalene	2	ug/l	FEQS	0	0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Acenaphthylene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Acenaphthene	2000	ug/l	USEPA	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Fluorene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Phenanthrene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Anthracene	0.1	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Fluoranthene	0.0063	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Pyrene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Benzo(a)anthracene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Chrysene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Benzo(b)fluoranthene	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Benzo(k)fluoranthene	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Benzo(a)pyrene	0.01	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Indeno(1,2,3-cd)pyrene	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001				
Dibenzo(a,h)anthracene	2	ug/l	FEQS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Benzo(g,h,i)perylene	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001				
Heavy metals and metalloids																					

Appendix G

G9 Groundwater Downgradient

Assessment Scenario

Water Abstraction

					Summary																
Lab Sample ID	Screening value	Units	Screening standard	Number of Exceedances	ARP16-LF-BH01	ARP16-LF-BH05	ARP16-LF-BH05	ARP16-LF-BH05	ARP16-LF-BH05	949607 ARP16-LF-BH05	962834 ARP16-LF-BH05	983105 ARP16-LF-BH05	999559 ARP16-LF-BH05	1022120 ARP16-LF-BH05	1055393 ARP16-LF-BH05	1075117 ARP16-LF-BH05	1102000 ARP16-LF-BH05				
Client Sample No					41.32	46.01	40.62	39.60	39.61	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Client Sample ID					41.32	46.01	40.62	39.60	39.61	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth to Top					41.32	46.01	40.62	39.60	39.61	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth to Bottom					41.32	46.01	40.62	39.60	39.61	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled					17/05/17	09/02/17	15/03/17	06/04/17	16/05/17	25/04/2018	17/05/2018	14/06/2018	11/07/2018	13/08/2018	27/09/2018	24/10/2018	26/11/2018				
Sample Type												None Supplied	1505	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
PCB Congener 123	25	ug/l	FEQS	0						< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020				
PCB Congener 126	25	ug/l	FEQS	0						< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020				
PCB Congener 156	25	ug/l	FEQS	0						< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020				
PCB Congener 157	25	ug/l	FEQS	0						< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020				
PCB Congener 167	25	ug/l	FEQS	0						< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020				
PCB Congener 169	25	ug/l	FEQS	0						< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020				
PCB Congener 189	25	ug/l	FEQS	0						< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020				
PCBs	25	ug/l	FEQS	0						< 0.300	< 0.300	< 0.300	< 0.300	< 0.300	< 0.300	< 0.300	< 0.300				
Environmental Forensics																					
PFOS	0.3	ug/l	DWS	1						< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.12				
PFOS	0.3	ug/l	DWS	0																	
PFOA	0.3	ug/l	DWS	0						< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.1				
Metaldehyde	0.1	ug/l	UK DWS	20						< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1				
Chloronitrotoluenes (sum)	10	ug/l	FEQS	0						< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1				
Chlorbufam	0.1	ug/l	UK DWS	0	< 0.1	< 1.0	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10				
Chloroxuron	0.1	ug/l	UK DWS	0	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10				
Chlorpropham	0.1	ug/l	UK DWS	0	< 0.1	< 1.0	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10				
Ethiofencarb	0.1	ug/l	UK DWS	0	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10				
Phenmedipham	0.1	ug/l	UK DWS	0	< 0.1	< 0.1	< 0.1	< 0.5	< 0.1	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10				
Propam	0.1	ug/l	UK DWS	0	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10				
Dimefuron	0.1	ug/l	UK DWS	0	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10				
Metoxuron	0.1	ug/l	UK DWS	1	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10				
Pencycuron	0.1	ug/l	UK DWS	0	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10				
o,p-Methoxychlor	0.1	ug/l	UK DWS	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
Demeton-s-methyl	0.1	ug/l	UK DWS	0						< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10				
Diclofop	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02		< 0.02	< 0.02	< 0.02	< 0.02				
Fenvalerate	0.1	ug/l	UK DWS	0	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10				
Cyhalothrin	0.1	ug/l	UK DWS	0	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10				
Ametryn	0.1	ug/l	UK DWS	0	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10				
Atrazine-methoxy	0.1	ug/l	UK DWS	0	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10				
Bromacil	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.05		< 0.02	< 0.02	< 0.02	< 0.02				
Flamprop	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02		< 0.02	< 0.02	< 0.02	< 0.02				
Flamprop-isopropyl	0.1	ug/l	UK DWS	0	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02		< 0.02	< 0.02	< 0.02	< 0.02				
Prometon	0.1	ug/l	UK DWS	0	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10				
Simetryn	0.1	ug/l	UK DWS	0	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10				
4-Nitrophenol	7.7	ug/l	FEQS	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05				
Hexachlorocyclopentadiene	50	ug/l	USEPA	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1				
Perylene	2	ug/l	FEQS	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1				
n-Nitroso-n-dipropylamine	0.1	ug/l	UK DWS	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1				
Carbamates																					
Pirimicarb	100	ng/l	UK DWS	0	< 100	< 100	< 100	< 100	< 100	< 20	< 20	< 20		< 20	< 20	< 20	< 20				
Carbetamide	100	ng/l	UK DWS	0	< 100	< 100	< 100	< 100	< 100	< 20	< 20	< 20		< 20	< 20	< 20	< 100.00				
Phthalates																					
Bis(2-ethylhexyl)phthalate	8	ug/l	WHO	0	< 10	< 2	< 2	< 2	< 10	3.8	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0				
Di-n-octyl phthalate	20	ug/l	FEQS	0	< 10	< 10	< 10	< 10	< 10	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0				
Total phthalates	N/A	mg/l	-	0																	
Glycols																					
Ethylene Glycol	ISSUE	mg/l	Default	0						< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10				
Diethylene Glycol	ISSUE	mg/l	Default	0						< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10				
1,2-Propanediol	ISSUE	mg/l	Default	0						< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10				
Rodenticides																					
Triazine Pesticides																					

Appendix G G9 Groundwater Downgradient

Assessment Scenario

Water Abstraction

					Summary	
Lab Sample ID	Screening value	Units	Screening standard	Number of Exceedances	1111109	
Client Sample No					ARP16-LF-BH05	
Client Sample ID					None Supplied	
Depth to Top					None Supplied	
Depth to Bottom						
Date Sampled					06/12/2018	
Sample Type					None Supplied	
Inorganics						
Organics						
General inorganics						
pH	N/A	pH units	-		6.7	
Total Cyanide	50	ug/l	UK DWS	0	< 10	
Complex Cyanides	50	ug/l	UK DWS	0	< 10	
Free Cyanide	50	ug/l	UK DWS	0	< 10	
Thiocyanate as SCN	50	ug/l	UK DWS	0	< 200	
Sulphate as SO4	250000	ug/l	UK DWS	0	39100	
Sulphide	250000	ug/l	UK DWS	0	< 5.0	
Chloride	250	mg/l	UK DWS	0	21	
Fluoride	1500	ug/l	UK DWS	0	55	
Ammoniacal Nitrogen as N	390	ug/l	UK DWS	22	39	
Nitrate as N	11.3	mg/l	UK DWS	1	14	
Nitrate as NO3	50	mg/l	UK DWS	2	62.2	
Nitrite as N	160	ug/l	UK DWS	4	4.6	
Nitrite as NO2	500	ug/l	UK DWS	4	15	
Alkalinity	N/A	mg/l	-	0	720	
Chemical Oxygen Demand (COD)	N/A	mg/l	-	0	< 2.0	
Biological Oxygen Demand (BOD)	N/A	mg/l	-	0	< 1.0	
Total Oxidised N (Nitrate/-ite)	11.3	mg/l	UK DWS	2	14	
Total Suspended Solids	N/A	mg/l	-	0	< 2.0	
Hardness - Total	N/A	mg/l	-	0	646	
Bromide	N/A	mg/l	-	0	0.3	
Bromate	0.01	mg/l	UK DWS	0	< 0.002	
Phenols						
Catechol	7.7	ug/l	FEQS	0	< 0.5	
Resorcinol	7.7	ug/l	FEQS	0	< 0.5	
Ethylphenol & Dimethylphenol	100	ug/l	FEQS	0	< 0.5	
Cresols	100	ug/l	FEQS	0	< 0.5	
Naphthols	7.7	ug/l	FEQS	0	< 0.5	
Isopropylphenol	7.7	ug/l	FEQS	0	< 0.5	
Phenol	7.7	ug/l	FEQS	0	< 0.5	
Trimethylphenol	100	ug/l	FEQS	0	< 0.5	
Speciated PAHs						
Naphthalene	2	ug/l	FEQS	0	< 0.01	
Acenaphthylene	2	ug/l	FEQS	0	< 0.01	
Acenaphthene	2000	ug/l	USEPA	0	< 0.01	
Fluorene	2	ug/l	FEQS	0	< 0.01	
Phenanthrene	2	ug/l	FEQS	0	< 0.01	
Anthracene	0.1	ug/l	FEQS	0	< 0.01	
Fluoranthene	0.0063	ug/l	FEQS	0	< 0.01	
Pyrene	2	ug/l	FEQS	0	< 0.01	
Benzo(a)anthracene	2	ug/l	FEQS	0	< 0.01	
Chrysene	2	ug/l	FEQS	0	< 0.01	
Benzo(b)fluoranthene	0.1	ug/l	UK DWS	0	< 0.01	
Benzo(k)fluoranthene	0.1	ug/l	UK DWS	0	< 0.01	
Benzo(a)pyrene	0.01	ug/l	UK DWS	0	< 0.01	
Indeno(1,2,3-cd)pyrene	0.1	ug/l	UK DWS	0	< 0.001	
Dibenzo(a,h)anthracene	2	ug/l	FEQS	0	< 0.01	
Benzo(g,h,i)perylene	0.1	ug/l	UK DWS	0	< 0.001	
Heavy metals and metalloids						

Appendix G G9 Groundwater Downgradient

Assessment Scenario

Water Abstraction

					Summary
Lab Sample ID	Screening value	Units	Screening standard	Number of Exceedances	1111109
Client Sample No					ARP16-LF-BH05
Client Sample ID					None Supplied
Depth to Top					None Supplied
Depth to Bottom					
Date Sampled					06/12/2018
Sample Type					None Supplied
Antimony	5	ug/l	UK DWS	0	0.5
Arsenic	10	ug/l	UK DWS	0	0.27
Barium	700	ug/l	WHO	0	150
Beryllium	4	ug/l	USEPA	0	< 0.1
Boron	1000	ug/l	UK DWS	1	17
Cadmium >200mg/l CaCO3	5	ug/l	UK DWS	0	< 0.02
Calcium	N/A	mg/l	-	0	250
Chromium VI	3.4	ug/l	FEQS	2	< 5.0
Chromium III	4.7	ug/l	FEQS	0	1.1
Chromium Total	50	ug/l	UK DWS	0	1.1
Copper (bioavailable), DOC <1mg/l	2000	ug/l	UK DWS	0	1.4
Iron	0.2	mg/l	UK DWS	2	0.18
Lead	10	ug/l	UK DWS	0	< 0.2
Magnesium	N/A	mg/l	-	0	6.6
Manganese (bioavailable)	50	ug/l	UK DWS	26	5.3
Mercury	1	ug/l	UK DWS	2	< 0.05
Molybdenum	70	ug/l	WHO	0	0.2
Nickel >200 mg/l CaCO3	20	ug/l	UK DWS	2	2
Potassium	N/A	mg/l	-	0	6.3
Selenium	10	ug/l	UK DWS	0	2.7
Sodium	50	mg/l	WHO	26	19
Vanadium	20	ug/l	FEQS	0	0.4
Zinc >250 mg/l CaCO3	5000	ug/l	USEPA	0	7.2
Monoaromatics					
Benzene	1	ug/l	UK DWS	0	< 1.0
Toluene	74	ug/l	FEQS	0	< 1.0
Ethylbenzene	20	ug/l	FEQS	0	< 1.0
Xylenes	30	ug/l	FEQS	0	< 1.0
MTBE	15	ug/l	WHO	0	< 1.0
Petroleum hydrocarbons					
TPH	N/A	ug/l	-	0	
TPH >C5-C6 Aliphatics	15000	ug/l	WHO	0	< 1.0
TPH >C6-C8 Aliphatics	15000	ug/l	WHO	0	< 1.0
TPH >C8-C10 Aliphatics	300	ug/l	WHO	0	< 1.0
TPH >C10-C12 Aliphatics	300	ug/l	WHO	0	< 10
TPH >C12-C16 Aliphatics	300	ug/l	WHO	0	< 10
TPH >C16-C21 Aliphatics	300	ug/l	WHO	0	< 10
TPH >C21-C35 Aliphatics	300	ug/l	WHO	0	< 10
TPH-CWG - Aliphatic >C16 - C35	300	ug/l	WHO	0	< 10
TPH-CWG - Aliphatic >C35 - C44	300	ug/l	WHO	0	< 10
C5-C35 Aliphatics	N/A	ug/l	-	0	< 10
TPH-CWG - Aliphatic (C5 - C44)	N/A	ug/l	-	0	< 10
TPH >C5-C6 Aromatics	10	ug/l	WHO	0	< 1.0
TPH >C7-C8 Aromatics	700	ug/l	WHO	0	< 1.0
TPH >C8-C9 Aromatics	300	ug/l	WHO	0	
TPH >C9-C10 Aromatics	300	ug/l	WHO	0	
TPH >C8-C10 Aromatics	300	ug/l	WHO	0	< 1.0
TPH >C10-C12 Aromatics	90	ug/l	WHO	0	< 10
TPH >C12-C16 Aromatics	90	ug/l	WHO	0	< 10
TPH >C16-C21 Aromatics	90	ug/l	WHO	0	< 10
TPH >C21-C35 Aromatics	90	ug/l	WHO	0	< 10
TPH >C35-C44 Aromatics	90	ug/l	WHO	0	< 10

Appendix G G9 Groundwater Downgradient

Assessment Scenario

Water Abstraction

					Summary	
Lab Sample ID	Screening value	Units	Screening standard	Number of Exceedances	1111109	
Client Sample No					ARP16-LF-BH05	
Client Sample ID					None Supplied	
Depth to Top					None Supplied	
Depth to Bottom						
Date Sampled					06/12/2018	
Sample Type					None Supplied	
C5-C35 Aromatics	N/A	ug/l	-	0	< 10	
C5-C35 Aromatics	N/A	ug/l	-	0	< 10	
VOCs						
Chloromethane	20	ug/l	FEQS	0	< 1.0	
Chloroethane	3	ug/l	UK DWS	0	< 1.0	
Bromomethane	100	ug/l	UK DWS	0	< 1.0	
Vinyl Chloride	0.5	ug/l	UK DWS	0	< 1.0	
Trichlorofluoromethane	2.5	ug/l	FEQS	0	< 1.0	
1,1-Dichloroethene	7	ug/l	USEPA	0	< 1.0	
1,1,2-Trichloro-1,2,2-trifluoroethane	400	ug/l	FEQS	0	< 1.0	
Cis-1,2 Dichloroethene	50	ug/l	WHO	0	< 1.0	
MTBE	15	ug/l	WHO	0	< 1.0	
1,1 -Dichloroethane	3	ug/l	UK DWS	0	< 1.0	
2,2-Dichloropropane	40	ug/l	WHO	0	< 1.0	
Trichloromethane	2.5	ug/l	FEQS	0	< 1.0	
1,1,1-Trichloroethane	100	ug/l	FEQS	0	< 1.0	
1,2-Dichloroethane	3	ug/l	UK DWS	0	< 1.0	
1,1-Dichloropropene	20	ug/l	WHO	0	< 1.0	
Trans-1,2 Dichloroethene	50	ug/l	WHO	0	< 1.0	
Benzene	1	ug/l	UK DWS	0	< 1.0	
Tetrachloromethane	3	ug/l	UK DWS	0	< 1.0	
1,2-Dichloropropane	40	ug/l	WHO	0	< 1.0	
Trichloroethene	10	ug/l	UK DWS	2	< 1.0	
Dibromomethane	100	ug/l	UK DWS	0	< 1.0	
Bromodichloromethane	100	ug/l	UK DWS	0	< 1.0	
Cis-1,3 Dichloropropene	20	ug/l	WHO	0	< 1.0	
Trans-1,3 Dichloropropene	20	ug/l	WHO	0	< 1.0	
Toluene	74	ug/l	FEQS	0	< 1.0	
1,1,2-Trichloroethane	400	ug/l	FEQS	0	< 1.0	
1,3-Dichloropropane	40	ug/l	WHO	0	< 1.0	
Dibromochloromethane	100	ug/l	WHO	0	< 1.0	
Tetrachloroethene	10	ug/l	UK DWS	0	< 1.0	
1,2-Dibromoethane	0.4	ug/l	WHO	0	< 1.0	
Chlorobenzene	0.4	ug/l	FEQS	0	< 1.0	
1,1,1,2-Tetrachloroethane	400	ug/l	USEPA	0	< 1.0	
Ethylbenzene	20	ug/l	FEQS	0	< 1.0	
m,p-Xylenes	30	ug/l	FEQS	0	< 1.0	
Styrene	20	ug/l	WHO	0	< 1.0	
Tribromomethane	#####	ug/l	Default	0	< 1.0	
o-Xylene	30	ug/l	FEQS	0	< 1.0	
1,1,2,2-Tetrachloroethane	400	ug/l	USEPA	0	< 1.0	
Iso-propylbenzene	1	ug/l	UK DWS	0	< 1.0	
Bromobenzene	1	ug/l	UK DWS	0	< 1.0	
Propylbenzene	1	ug/l	UK DWS	0	< 1.0	
2-Chlorotoluene	700	ug/l	WHO	0	< 1.0	
4-Chlorotoluene	700	ug/l	WHO	0	< 1.0	
1,3,5 Trimethylbenzene	1	ug/l	UK DWS	0	< 1.0	
tert-Butylbenzene	1	ug/l	UK DWS	0	< 1.0	
1,2,4 Trimethylbenzene	1	ug/l	UK DWS	0	< 1.0	
sec-Butylbenzene	1	ug/l	UK DWS	0	< 1.0	
1,3 Dichlorobenzene	3000	ug/l	USEPA	0	< 1.0	
p-Isopropyltoluene	74	ug/l	FEQS	0	< 1.0	
1,2-Dichlorobenzene	1000	ug/l	WHO	0	< 1.0	

Appendix G G9 Groundwater Downgradient

Assessment Scenario

Water Abstraction

					Summary	
Lab Sample ID	Screening value	Units	Screening standard	Number of Exceedances	1111109	
Client Sample No					ARP16-LF-BH05	
Client Sample ID					None Supplied	
Depth to Top					None Supplied	
Depth to Bottom						
Date Sampled					06/12/2018	
Sample Type					None Supplied	
1,4 Dichlorobenzene	300	ug/l	WHO	0	< 1.0	
n-Butylbenzene	1	ug/l	UK DWS	0	< 1.0	
1,2-Dibromo-3-chloropropane	1	ug/l	WHO	0	< 1.0	
1,2,4-Trichlorobenzene	70	ug/l	USEPA	0	< 1.0	
Hexachlorobutadiene	0.6	ug/l	WHO	0	< 1.0	
2,6 Chloronitrotoluene	700	ug/l	WHO	0	< 1	
4,2 Chloronitrotoluene	700	ug/l	WHO	0	< 1	
4,3 Chloronitrotoluene	700	ug/l	WHO	0	< 1	
2,4 Chloronitrotoluene	700	ug/l	WHO	0	< 1	
2,5 Chloronitrotoluene	700	ug/l	WHO	0	< 1	
1,2,3-Trichlorobenzene	0.4	ug/l	FEQS	0	< 1.0	
1,2,3-Trichloropropane	40	ug/l	WHO	0	< 1.0	
1,3,5-Trichlorobenzene	0.4	ug/l	FEQS	0	< 1.0	
Bromochloromethane	100	ug/l	WHO	0	< 1.0	
Dichloromethane	20	ug/l	FEQS	0	< 100	
Carbon disulphide	#####	ug/l	Default	0	< 1.0	
Dichlorodifluoromethane	20	ug/l	FEQS	0	< 1.0	
SVOCs						
Phenol	7.7	ug/l	FEQS	0	< 0.05	
2-Chlorophenol	50	ug/l	FEQS	0	< 0.05	
Bis(2-chloroethyl)ether	1000	ug/l	USEPA	0	< 0.05	
Bis(2-chloroisopropyl)ether	1000	ug/l	USEPA	0	< 0.05	
2-Methylphenol	100	ug/l	FEQS	0	< 0.05	
Hexachloroethane	40	ug/l	USEPA	0	< 0.05	
Nitrobenzene	1	ug/l	UK DWS	0	< 0.05	
4-Methylphenol	100	ug/l	FEQS	0	< 0.05	
Isophorone	7000	ug/l	USEPA	0	< 0.05	
2-Nitrophenol	7.7	ug/l	FEQS	0	< 0.05	
2,4-Dimethylphenol	100	ug/l	FEQS	0	< 0.05	
Bis(2-chloroethoxy)methane	#####	ug/l	Default	0	< 0.05	
2,4-Dichlorophenol	4.2	ug/l	FEQS	0	< 0.05	
4-Chloro-3-methylphenol	40	ug/l	FEQS	0	< 0.05	
2,4,6-trichlorophenol	200	ug/l	WHO	0	< 0.05	
2,4,5-Trichlorophenol	200	ug/l	WHO	0	< 0.05	
2-Methylnaphthalene	2	ug/l	FEQS	0	< 0.05	
2-Chloronaphthalene	2	ug/l	FEQS	0	< 0.05	
Dimethylphthalate	800	ug/l	FEQS	0	< 0.05	
2,6-Dinitrotoluene	100	ug/l	USEPA	0	< 0.05	
2,4-Dinitrotoluene	100	ug/l	USEPA	0	< 0.05	
Dibenzofuran	2	ug/l	FEQS	0	< 0.05	
Diethyl phthalate	200	ug/l	FEQS	0	< 0.05	
Bromophenyl phenyl ether	#####	ug/l	Default	0	< 0.05	
Hexachlorobenzene	1	ug/l	USEPA	0	< 0.05	
Phenanthrene	2	ug/l	FEQS	0	< 0.01	
Carbazole	2	ug/l	FEQS	0	< 0.05	
Di-n-butyl phthalate	8	ug/l	FEQS	0	< 0.05	
Butyl benzyl phthalate	7.5	ug/l	FEQS	0	< 0.05	
PCBs by GC-ECD - WHO 12						
PCB Congener 77	25	ug/l	FEQS	0	< 0.020	
PCB Congener 81	25	ug/l	FEQS	0	< 0.020	
PCB Congener 105	25	ug/l	FEQS	0	< 0.020	
PCB Congener 114	25	ug/l	FEQS	0	< 0.020	
PCB Congener 118	25	ug/l	FEQS	0	< 0.020	

Appendix G G9 Groundwater Downgradient

Assessment Scenario

Water Abstraction

					Summary
Lab Sample ID	Screening value	Units	Screening standard	Number of Exceedances	1111109
Client Sample No					ARP16-LF-BH05
Client Sample ID					None Supplied
Depth to Top					None Supplied
Depth to Bottom					
Date Sampled					06/12/2018
Sample Type					None Supplied
PCB Congener 123	25	ug/l	FEQS	0	< 0.020
PCB Congener 126	25	ug/l	FEQS	0	< 0.020
PCB Congener 156	25	ug/l	FEQS	0	< 0.020
PCB Congener 157	25	ug/l	FEQS	0	< 0.020
PCB Congener 167	25	ug/l	FEQS	0	< 0.020
PCB Congener 169	25	ug/l	FEQS	0	< 0.020
PCB Congener 189	25	ug/l	FEQS	0	< 0.020
PCBs	25	ug/l	FEQS	0	< 0.300
Environmental Forensics					
PFOS	0.3	ug/l	DWS	1	< 0.05
PFOS	0.3	ug/l	DWS	0	
PFOA	0.3	ug/l	DWS	0	< 0.05
Metaldehyde	0.1	ug/l	UK DWS	20	< 0.1
Chloronitrotoluenes (sum)	10	ug/l	FEQS	0	< 0.1
Chlorbufam	0.1	ug/l	UK DWS	0	< 0.10
Chloroxuron	0.1	ug/l	UK DWS	0	< 0.10
Chlorpropham	0.1	ug/l	UK DWS	0	< 0.10
Ethiofencarb	0.1	ug/l	UK DWS	0	< 0.10
Phenmedipham	0.1	ug/l	UK DWS	0	< 0.10
Propham	0.1	ug/l	UK DWS	0	< 0.10
Dimefuron	0.1	ug/l	UK DWS	0	< 0.10
Metoxuron	0.1	ug/l	UK DWS	1	< 0.10
Pencycuron	0.1	ug/l	UK DWS	0	< 0.10
o,p-Methoxychlor	0.1	ug/l	UK DWS	0	< 0.01
Demeton-s-methyl	0.1	ug/l	UK DWS	0	< 0.10
Diclofop	0.1	ug/l	UK DWS	0	< 0.02
Fenvalerate	0.1	ug/l	UK DWS	0	< 0.10
Cyhalothrin	0.1	ug/l	UK DWS	0	< 0.10
Ametryn	0.1	ug/l	UK DWS	0	< 0.10
Atrazine-methoxy	0.1	ug/l	UK DWS	0	< 0.10
Bromacil	0.1	ug/l	UK DWS	0	< 0.02
Flamprop	0.1	ug/l	UK DWS	0	< 0.02
Flamprop-isopropyl	0.1	ug/l	UK DWS	0	< 0.02
Prometon	0.1	ug/l	UK DWS	0	< 0.10
Simetryn	0.1	ug/l	UK DWS	0	< 0.10
4-Nitrophenol	7.7	ug/l	FEQS	0	< 0.05
Hexachlorocyclopentadiene	50	ug/l	USEPA	0	< 1
Perylene	2	ug/l	FEQS	0	< 1
n-Nitroso-n-dipropylamine	0.1	ug/l	UK DWS	0	< 1
Carbamates					
Pirimicarb	100	ng/l	UK DWS	0	< 20
Carbetamide	100	ng/l	UK DWS	0	< 20
Phthalates					
Bis(2-ethylhexyl)phthalate	8	ug/l	WHO	0	< 1.0
Di-n-octyl phthalate	20	ug/l	FEQS	0	< 1.0
Total phthalates	N/A	mg/l	-	0	
Glycols					
Ethylene Glycol	ISSUE	mg/l	Default	0	< 10
Diethylene Glycol	ISSUE	mg/l	Default	0	< 10
1,2-Propanediol	ISSUE	mg/l	Default	0	< 10
Rodenticides					
Triazine Pesticides					

Appendix G G9 Groundwater Downgradient

Assessment Scenario

Water Abstraction

					Summary	
Lab Sample ID	Screening value	Units	Screening standard	Number of Exceedances	1111109	
Client Sample No					ARP16-LF-BH05	
Client Sample ID					None Supplied	
Depth to Top					None Supplied	
Depth to Bottom						
Date Sampled					06/12/2018	
Sample Type					None Supplied	
Atrazine	0.1	ug/l	UK DWS	18	< 0.05	
Simazine	0.1	ug/l	UK DWS	0	< 0.05	
Prometryn	0.1	ug/l	UK DWS	0	< 0.05	
Propazine	0.1	ug/l	UK DWS	0	< 0.05	
Terbutylazine	0.1	ug/l	UK DWS	0	< 0.05	
Terbutryn	0.1	ug/l	UK DWS	0	< 0.05	
Acid herbicides esters						
2,4-D Methyl Ester	0.1	ug/l	UK DWS	0	< 0.02	
2,4-D butyl ester	0.1	ug/l	UK DWS	0	< 0.10	
2,4-D ethyl ester	0.1	ug/l	UK DWS	0	< 0.10	
2,4-D isobutyl ester	0.1	ug/l	UK DWS	0	< 0.10	
2,4-D isopropyl ester	0.1	ug/l	UK DWS	0	< 0.10	
Acid Herbicides						
2,3,6-TBA	0.1	ug/l	UK DWS	0	< 0.02	
Benazolin	0.1	ug/l	UK DWS	0	< 0.02	
Bromoxynil	0.1	ug/l	UK DWS	0	< 0.02	
Clopyralid	0.1	ug/l	UK DWS	0	< 0.02	
Ioxynil	0.1	ug/l	UK DWS	0	< 0.02	
2,4,5-T	0.1	ug/l	UK DWS	0	< 0.02	
2,4,5-TP	0.1	ug/l	UK DWS	0	< 0.02	
2,4-D	0.1	ug/l	UK DWS	1	< 0.02	
2,4-DB	0.1	ug/l	UK DWS	0	< 0.02	
Dicamba	0.1	ug/l	UK DWS	1	< 0.02	
Dichlorprop	0.1	ug/l	UK DWS	0	< 0.02	
MCPA	0.1	ug/l	UK DWS	0	< 0.02	
MCPB	0.1	ug/l	UK DWS	0	< 0.02	
Mecoprop	0.1	ug/l	UK DWS	15	< 0.02	
Picloram	0.1	ug/l	UK DWS	0	< 0.02	
4-Chlorophenoxyacetic acid	0.1	ug/l	UK DWS	0	< 0.02	
Organochlorine Pesticides						
Aldrin	0.03	ug/l	UK DWS	0	< 0.01	
alpha-HCH (alpha-BHC)	0.1	ug/l	UK DWS	0	< 0.01	
beta-HCH (beta-BHC)	0.1	ug/l	UK DWS	0	< 0.01	
delta-HCH (delta-BHC)	0.1	ug/l	UK DWS	0	< 0.01	
Dieldrin	0.03	ug/l	UK DWS	0	< 0.01	
Endosulfan	0.1	ug/l	UK DWS	0	< 0.01	
Endosulfan	0.1	ug/l	UK DWS	0	< 0.01	
Endosulfan Sulphate	0.1	ug/l	UK DWS	0	< 0.01	
Endrin	0.1	ug/l	UK DWS	0	< 0.01	
gamma-HCH (gamma-BHC)	0.1	ug/l	UK DWS	0	< 0.01	
Heptachlor	0.03	ug/l	UK DWS	0	< 0.01	
Heptachlor Epoxide	0.03	ug/l	UK DWS	0	< 0.01	
Isodrin	0.1	ug/l	UK DWS	0	< 0.01	
Methoxychlor	0.1	ug/l	UK DWS	0	< 0.01	
o,p-DDE	0.1	ug/l	UK DWS	0	< 0.01	
DDT	0.1	ug/l	UK DWS	0	< 0.01	
o,p-TDE (o,p-DDD)	0.1	ug/l	UK DWS	0	< 0.01	
p,p-DDE	0.1	ug/l	UK DWS	0	< 0.01	
DDT	0.1	ug/l	UK DWS	0	< 0.01	
p,p-TDE (o,p-DDD)	0.1	ug/l	UK DWS	0	< 0.01	
Trifluralin	0.1	ug/l	UK DWS	0	< 0.01	
Organonitrogen pesticides						
Bentazone	0.1	ug/l	UK DWS	1	< 0.02	

Appendix G G9 Groundwater Downgradient

Assessment Scenario

Water Abstraction

					Summary	
Lab Sample ID	Screening value	Units	Screening standard	Number of Exceedances	1111109	
Client Sample No					ARP16-LF-BH05	
Client Sample ID					None Supplied	
Depth to Top					None Supplied	
Depth to Bottom						
Date Sampled					06/12/2018	
Sample Type					None Supplied	
Fluroxypyr	0.1	ug/l	UK DWS	0	< 0.02	
Triclorpyr	0.1	ug/l	UK DWS	1	< 0.02	
Organophosphorous pesticides						
Azinphos-ethyl	0.1	ug/l	UK DWS	0	< 0.01	
Azinphos-methyl	0.1	ug/l	UK DWS	0	< 0.01	
Chlorfenvinphos	0.1	ug/l	UK DWS	0	< 0.01	
Chlorfenvinphos I	0.1	ug/l	UK DWS	0		
Chlorfenvinphos II	0.1	ug/l	UK DWS	0		
Chlorpyrifos-methyl	0.1	ug/l	UK DWS	0		
Diazinon	0.1	ug/l	UK DWS	0	< 0.01	
Dichlorvos	0.1	ug/l	UK DWS	0	< 0.01	
Dimethoate	0.1	ug/l	UK DWS	0	< 0.01	
E-mevinphos	0.1	ug/l	UK DWS	0	< 0.01	
Z-Mevinphos	0.1	ug/l	UK DWS	0	< 0.01	
Ethion	0.1	ug/l	UK DWS	0	< 0.01	
Fenitrothion	0.1	ug/l	UK DWS	0	< 0.01	
Fenthion	0.1	ug/l	UK DWS	0	< 0.01	
Malathion	0.1	ug/l	UK DWS	0	< 0.01	
Parathion-ethyl	0.1	ug/l	UK DWS	0	< 0.01	
Parathion-methyl	0.1	ug/l	UK DWS	0	< 0.01	
Phenylurea herbicides						
Isoproturon	100	ng/l	UK DWS	0	< 10	
Chlortoluron	100	ng/l	UK DWS	0	< 10	
Diflubenzuron	100	ng/l	UK DWS	0	< 10	
Diuron	100	ng/l	UK DWS	11	< 10	
Linuron	100	ng/l	UK DWS	0	< 10	
Methabenzthiazuron	100	ng/l	UK DWS	0	< 10	
Monolinuron	100	ng/l	UK DWS	0	< 10	
Monuron	100	ng/l	UK DWS	0	< 10	
VFAs						
Acetic acid	0.01	mg/l	Default	0	< 10	
Propanoic acid	0.01	mg/l	Default	0	< 10	
Butyric acid	0.01	mg/l	Default	0	< 10	
Isobutyric acid	0.01	mg/l	Default	0	< 10	
Pentanoic acid	0.01	mg/l	Default	0	< 10	
Isopentanoic acid	0.01	mg/l	Default	0	< 10	
Hexanoic acid	0.01	mg/l	Default	0	< 10	
Heptanoic acid	0.01	mg/l	Default	0	< 10	
Pyrethroids						
Cyfluthrin	0.1	ug/l	UK DWS	0	< 0.1	
Cypermethrin	100	ng/l	UK DWS	0	< 10	
Deltramethrin	0.1	ug/l	UK DWS	0	< 0.1	
Permethrin	0.1	ug/l	UK DWS	0	< 0.01	
Permethrin	0.1	ug/l	UK DWS	0	< 0.01	
Organotins						
Tributyltin compounds	0.2	ng/l	FEQS	0	< 10	
TPT (Triphenyl Tin)	0.2	ng/l	FEQS	0	< 10	
DBT (Dibutyl Tin)	0.2	ng/l	FEQS	2	< 10	
Chlorophenols						
Pentachlorophenol	0.0004	mg/l	FEQS	0	< 0.05	
Others						
Chlordane	0.0001	mg/l	UK DWS	0		
Chlorothalonil	0.0001	mg/l	UK DWS	0		

Appendix G

G9 Groundwater Downgradient

Assessment Scenario

Water Abstraction

					Summary
Lab Sample ID	Screening value	Units	Screening standard	Number of Exceedances	1111109
Client Sample No					ARP16-LF-BH05
Client Sample ID					None Supplied
Depth to Top					None Supplied
Depth to Bottom					
Date Sampled					06/12/2018
Sample Type					None Supplied
Chlorpyrifos	0.0001	mg/l	UK DWS	0	
Pendimethalin	0.0001	mg/l	UK DWS	0	
Bromoform	0.1	mg/l	WHO	0	
Methane	N/A	ug/l	-	0	