

5.2-12 Environmental Statement Volume 12: Appendices 10.1, Appendix B – 12.14

TR020002/APP/5.2-12

Project Name: Regulation:

Date:

Manston Airport Development Consent Order Regulation 5(2)(a) of the Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009, as amended July 2018



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Appendix 10.1 Appendix B UXO Risk Assessment

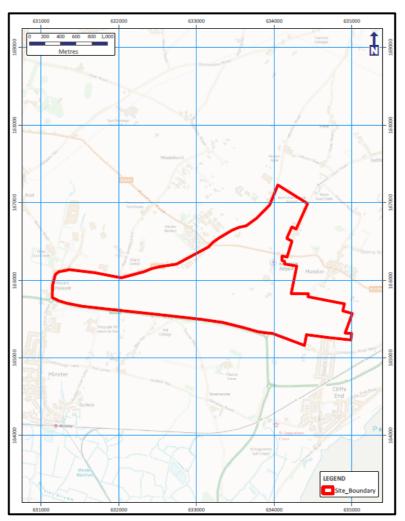
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Preliminary Unexploded Ordnance (UXO) Risk Assessment

Meeting the requirements of CIRIA C681 'Unexploded Ordnance (UXO) – A guide for the Construction Industry' Risk Management Framework



6 Alpha Project Number: P5188

Site: Kent International Airport Ltd, Kent International Airport, Manston, Ramsgate, Kent, CT12 5BL

Originator: Nathan Howard **Released By:** Rachel Bullock (18th March 2016)







6 Alpha Project Number: P5188 Landmark Order Number: 82802615_1 Client Reference: 38199-15 www.envirocheck.co.uk - +44 (0) 844 844 9952 customerservice@envirocheck.co.uk



Study Site

The Study Site is described as 'Kent International Airport Ltd, Manston, Ramsgate, Kent, CT12 5BL', and it is centred on National Grid Reference 633340, 165960.

Threat Potential

UXO PROBABILITY ASSESSMENT = 4 RATING, INDICATING A

MEDIUM/HIGH PROBABILITY OF UXO ENCOUNTER

The rating scale can be seen on *Figure 2* (Probability of UXO Encounter). In accordance with current guidelines (*CIRIA* C681 Chapter 5), the highest risk rating has been determined at this specific site for UXO risk consideration and has been used for the final assessment and recommendations.

Summary

During WWII the Study Site was situated within *Eastry Rural District* and *Ramsgate Municipal Borough*, which recorded 3 and 53 High Explosive (HE) bomb strikes per 100 hectares; a low and high level of bombing.

Luftwaffe aerial reconnaissance photography associated with the Site identified an airfield (located on-Site) as a primary bombing target.

Air Raid Precaution (ARP) records reveal that a container holding up to 250 bombs was dropped on-Site. In addition, further research reveals that *Manston* airfield (located on-Site) was subjected to heavy bombing during WWII.

Official bomb damage mapping could not be located. Despite this, further research suggests that a number of on-Site buildings sustained significant bomb damage during WWII.

Given the existence of an airfield on-Site; it would suggest that further action is warranted to address the potential for UXO encounter.

Recommendations

In accordance with *CIRIA* C681 Chapter 5 on managing UXO risks, *6 Alpha* recommends that the next stage in the risk management framework is:

DETAILED UXO THREAT & RISK ASSESSMENT

We would be pleased to provide this service, please contact *Envirocheck* for further details:

Telephone: +44 (0)844 844 9952

Email: customerservice@envirocheck.co.uk

Using This Report

This Preliminary Assessment is designed to inform environmental and construction professionals of the potential threat of military related explosives and/or ordnance on, or in, the vicinity of the Study Site.

This assessment is designed to be employed as a site-screening tool to meet with the requirement of Phase One of the *CIRIA UXO Risk Management Framework*; there are two broad prospective outcomes; either the threat level requires a Detailed Threat and Risk Assessment; or no further action is required. In the former instance we can provide a report within 14 working days (or more quickly upon application).

Two figures accompany the report, the *Second World War* (WWII) High Explosive (HE) Bomb Density and the final Probability of UXO Encounter. The purpose of this approach is to demonstrate that whilst bomb density statistics give an indication for WWII bombing, they should not be relied upon exclusively to generate a holistic assessment.

For further information, please contact *Envirocheck*:Telephone: +44 (0)Website: http://www.envirocheck.co.ukEmail: customerser

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Senvirocheck Unexploded Ordnance Probability Assessment



Data Findings				
Threat Source	Detail			
(Within 1,000m)	Identified	Comments		
Airfields/Military Facilities	~	<i>Royal Air Force (RAF) Manston</i> airfield and <i>Manston</i> camp were located on-Site.		
Ordnance Manufacture/Storage	×	None recorded within 1,000m.		
WWII Decoy Bombing Sites	~	A decoy site was located 305m to the north.		
WWII Defensive Features	✓	Seven pillboxes were located on-Site.		
WWII Luftwaffe Designated Bombing Targets	~	<i>Luftwaffe</i> aerial photography identified an airfield (located on-Site) as a primary bombing target.		
Secondary Bombing Targets	×	None recorded within 1,000m.		
WWII Bomb Strikes Within Site Boundary	~	ARP records identified that a container holding up to 250 bombs (possibly incendiary bombs) was dropped on-Site.		
WWII Bomb Strikes Near Site Boundary	~	Research verified that the immediate area was heavily bombed during WWII.		
WWII Bomb Damage	~	Further investigation confirmed that on-Site buildings sustained bomb damage.		
Abandoned Bomb Register	×	None recorded within 1,000m.		
WWII Bombing Density Per 100 Hectares	~	<i>Eastry Rural District</i> and <i>Ramsgate Municipal Borough</i> recorded 3 and 53 HE bomb strikes per 100 hectares.		
Important Notes				

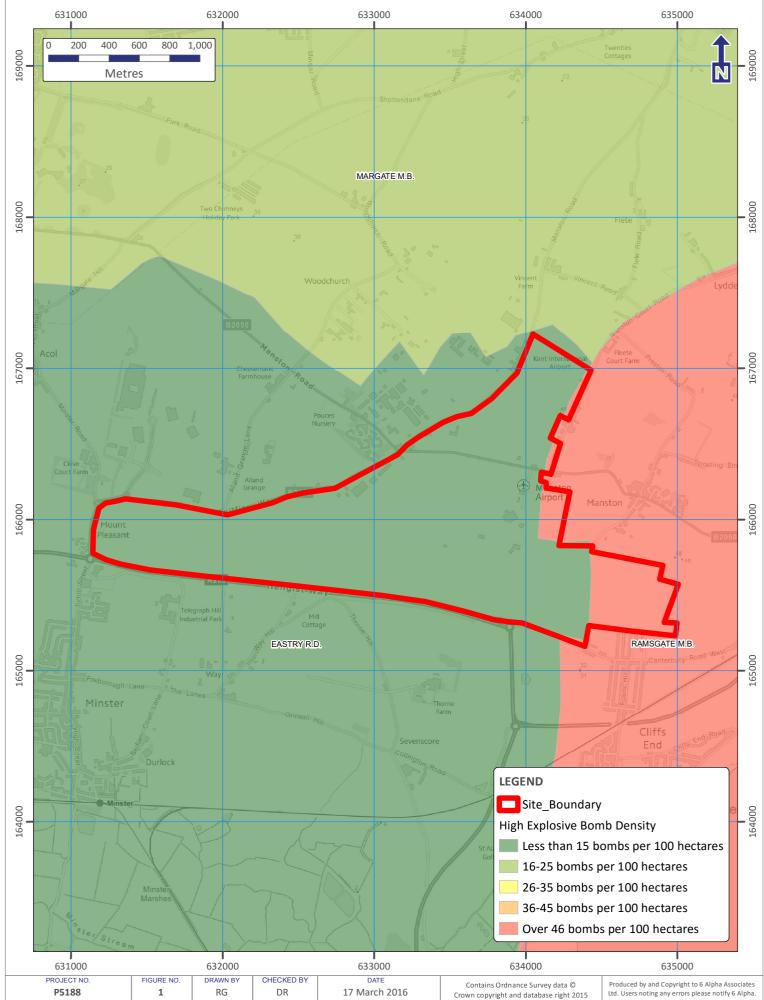
- The term 'Preliminary UXO Risk Assessment' has been used to describe this report, to fall in line with the CIRIA C681 guidelines. Whilst the term 'Risk' can be justifiably used at this stage, the reader should note that the 'Consequence' function of 'Risk' is not considered. Should it be required, this would be addressed in the 'Detailed UXO Threat & Risk Assessment' (Stages 2 and 3).
- 2. This report is accurate and up to date at the time of writing.
- 3. The assessment levels have been generated from historical data and third party sources. Where possible *6 Alpha* have sought to verify the accuracy of such data, but cannot be held accountable for inherent errors that may be in third party data sets (e.g. *National Archives* or library sources).
- 4. 6 Alpha have exercised all reasonable care, skill and due diligence in producing this service.
- 5. Whilst every effort has been used to identify all potential UXO/explosive threats, there were a number of private facilities, which may not have released privately recorded information concerning UXO/explosive threats into the public domain. It is therefore possible that some of the aforementioned sites may not be included within the database.



KENT INTERNATIONAL AIRPORT LTD, MANSTON, RAMSGATE, KENT, CT12 5BL



WWII High Explosive Bomb Density

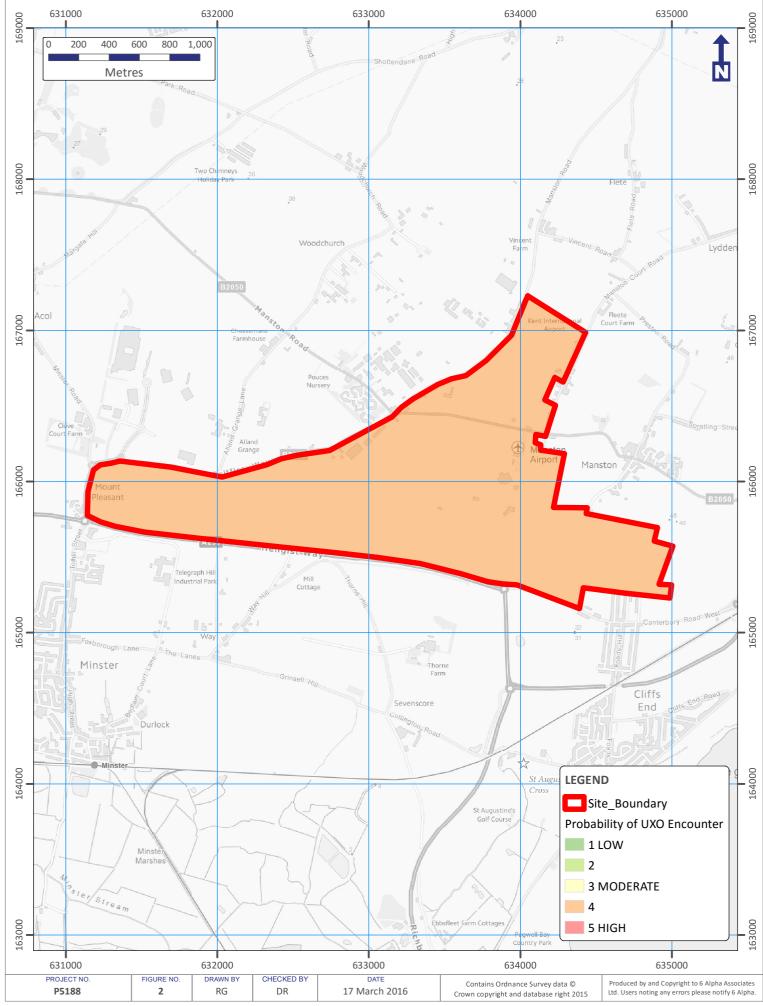




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Probability of UXO Encounter





Appendix 10.1 Appendix C Environmental Risk Assessment Methodology



Appendix C

Environmental Risk Assessment Methodology

- 1.1.1 The environmental risk assessment aims to assess the significance of each potential contaminant linkage. Each potential linkage is qualitatively assessed using the following criteria:
 - Potential consequence of contaminant receptor linkage;
 - Likelihood of contaminant receptor linkage; and
 - Risk classification.
- 1.1.2 The definitions for the qualitative risk assessment have been taken from Guidance for the Safe Development of Housing on Land Affected by Contamination Annex 4 R&D Publication 66: 2008 Volume 2.
- 1.1.3 The Likelihood Probability Classifications of SPR Linkage being realised is presented in **Table C.1**.

Classification	Definition	Examples
Unlikely	There is pollutant linkage but circumstances are such that it is improbable that an event would occur even in the very long-term.	 a) Elevated concentrations of toxic contaminants are present below hardstanding. b) Light industrial unit <10 yrs old containing a double skinned UST with annual integrity testing results available.
Low Likelihood	There is pollutant linkage and circumstances are possible under which an event could occur. However, it is by no means certain that even over a long period such an event would take place, and is less likely in the shorter term.	a) Elevated concentrations of toxic contaminants are present in soils at depths >1m in a residential garden, or 0.5-1.0m in public open space. b) Ground/groundwater contamination could be present on a light industrial unit constructed in the 1990s containing a UST in operation over the last 10 years – the tank is double skinned but there is no integrity testing or evidence of leakage.
Likely	There is pollutant linkage and all the elements are present and in the right place which means that it is probable that an event will occur. Circumstances are such that an event is not inevitable, but possible in the short-term and likely over the long-term.	 a) Elevated concentrations of toxic contaminants are present in soils at depths of 0.5-1.0m in a residential garden, or the top 0.5m in public open space. b) Ground/ groundwater contamination could be present from an industrial site containing a UST present between 1970 and 1990. The tank is known to be single skin. There is no evidence of leakage although there are no records of integrity tests.
High Likelihood	There is pollutant linkage and an event would appear very likely in the short-term and almost inevitable over the long-term, or there is evidence at the receptor of harm or pollution	 a) Elevated concentrations of toxic contaminants are present in soils in the top 0.5m in a residential garden. b) Ground/groundwater contamination could be present from chemical works, containing a number of USTs, having been in operation on the same site for over 50 years.

Table C.1 Likelihood Probability Classifications of SPR Linkage being realised

C3

1.1.4 "Potential Consequence of Contaminant Linkage" gives an indication of the sensitivity of a given receptor to a particular source or contaminant of concern under consideration. It is a worst-case classification and is based on full exposure via the particular linkage being examined. The classification of consequence is presented in **Table C.2**.



Classification	Human Health	Controlled Water	Ecology	Property	Examples
				Structures/Crops and animals	
Severe	Highly elevated concentrations likely to result in "significant harm" to human health as defined by the EPA 1990, Part 2A, if exposure occurs.	Equivalent to EA Category 1 pollution incident including persistent and/or extensive effects on water quality; leading to closure of a potable abstraction point; major impact on amenity value or major damage to agriculture or commerce.	Major damage to aquatic or other ecosystems, which is likely to result in a substantial adverse change in its functioning or harm to a species of special interest that endangers the long-term maintenance of the population.	Catastrophic damage to crops, buildings or property.	Significant harm to humans is defined in circular 01/2006 as death, disease*, serious injury, genetic mutation, birth defects or the impairment of reproductive functions. Major fish kill in surface water from large spillage of contaminants from site. Highly elevated concentrations of Hazardous or priority substances present in groundwater close to small potable abstraction (high sensitivity). Explosion, causing building collapse (can also equate to immediate human health risk if buildings are occupied).
Medium	Elevated concentrations which could result in "significant harm" to human health as defined by the EPA 1990, Part 2A if exposure occurs.	Equivalent to EA Category 2 pollution incident including significant effect on water quality; notification required to abstractors; reduction in amenity value or significant damage to agriculture or commerce.	Significant damage to aquatic or other ecosystems, which may result in a substantial adverse change in its functioning or harm to a species of special interest that may endanger the long-term maintenance of the population.	Significant damage to crops, buildings or property.	Significant harm to humans is defined in circular 01/2006 as death, disease*, serious injury, genetic mutation, birth defects or the impairment of reproductive functions. Damage to building rendering it unsafe to occupy e.g. foundation damage resulting in instability. Ingress of contaminants through plastic potable water pipes.
Mild	Exposure to human health unlikely to lead to "significant harm".	Equivalent to EA Category 3 pollution incident including minimal or short-lived effect on water quality; marginal effect on amenity value, agriculture or commerce.	Minor or short-lived damage to aquatic or other ecosystems, which is unlikely to result in a substantial adverse change in its functioning or harm to a species of special interest that would endanger the long-term maintenance of the population.	Minor damage to crops, buildings or property.	Exposure could lead to slight short-term effects (e.g. mild skin rash). Surface spalling of concrete.

Table C.2 Outline of Worst-Case Hazard Consequence Classifications for Receptor Types from Contamination Impact:



Classification	Human Health	Controlled Water	Ecology	Property	Examples
				Structures/Crops and animals	
Minor	No measurable effects on humans	Equivalent to insubstantial pollution incident with no observed effect on water quality or ecosystems.	Equivalent to insubstantial pollution incident with no observed effect on water quality or ecosystems.	Repairable effects of damage to buildings, structures and services.	The loss of plants in a landscaping scheme. Discoloration of concrete.



1.1.5 The risk matrix to link the likelihood and consequence is shown in **Table C.3**.

Likelihood:	Unlikely	Low Likelihood	Likely	High Likelihood
Potential Consequence:				
Severe	Moderate/low	Moderate Risk	High Risk	Very High Risk
Medium	Low	Moderate/low	Moderate Risk	High Risk
Mild	Very low risk	Low Risk	Moderate/low	Moderate Risk
Minor	Very low risk	Very low risk	Low Risk	Low Risk

1.1.6 The overall risk definitions are summarised in **Table C.4**.



6

Table C.4	Risk Definitions
Very Low	It is a low possibility that harm could arise to a designated receptor, but it is likely at worst, that this harm if realised would normally be mild or minor.
Low	It is possible that harm could arise to a designated receptor from identified hazard, but it is likely at worst, that this harm if realised would normally be mild. It is unlikely that the site owner/or occupier would face substantial liabilities from such a risk. Further investigative work (which is likely to be limited) to clarify the risk may be required. Any subsequent remediation works are likely to be relatively limited.
Medium	It is possible that harm could arise to a designated receptor from an identified hazard. However, it is either relatively unlikely that any such harm would be severe, and if any harm were to occur it is more likely, that the harm would be relatively mild. Further investigative work is normally required to clarify the risk and to determine the potential liability to site owner/occupier. Some remediation works may be required in the longer term.
High	Harm is likely to arise to a designated receptor from an identified hazard at the site without remediation action. Realisation of the risk is likely to present a substantial liability to the site owner/or occupier. Investigation is required as a matter of urgency to clarify the risk. Remediation works may be necessary in the short-term and are likely over the longer term.
Very High	There is a high probability that severe harm could arise to a designated receptor from an identified hazard at the site without remediation action OR there is evidence that severe harm to a designated receptor is already occurring. Realisation of that risk is likely to present a substantial liability to be site owner/or occupier. Investigation is required as a matter of urgency and remediation works likely to follow in the short-term.



Appendix 10.1 Appendix D Geotechnical Risk Register

Geotechnical Risk Register GRR 01

AMEC Project Number:	38199
Project Title:	Manston Airfield
Stage:	Phase 1 Desk Study
Compiled by: BC	Checked by: PMC



The risk register is a means of documenting perceived risks and their importance and recording actions taken to manage them. The key elements of a geotechnical risk register are as follows:

- 1. Identify the geotechnical risks.
- 2. Identify the methods of construction that may be incorporated into the project.
- 3. Scale the risks according to probability and impact.
- 4. Based on the severity of each risk, decide on the type of action.
- 5. Identify how each risk should be managed.
- 6. Record the actions taken to manage the risk.
- 7. Reassess the severity of each risk after action has been taken.
- 8. Review the risk register at regular intervals and communicate.

The risk register is a live document and should be reviewed on a regular basis and at the end of each stage of the project.

The probability (P) that a given event will occur is given by the following:

<u>Scale</u>	Likeihood	Chance per section of work
		(Amend to suit local conditions and to be agreed with the Client)
1	Negligible	< 1 in 100
2	Unlikely	1 in 100 to 1 in 10
3	Possible	1 in 10 to 1 in 5
4	Probable	1 in 5 to 1 in 2
5	Almost certain	> 1 in 2

The impact (I) of a given event is given by the following:

<u>Scale</u>	Effect	Increase in cost or time (% increase)
		(Amend to suit local conditions and to be agreed with the Client)
1	Negligible	< 1%
2	Very low	1% to 4%
3	Low	4% to 8%
4	High	8% to 15%
5	Very high	> 15%

The risk after the application of risk control measures should be reviewed in the light of the following table:

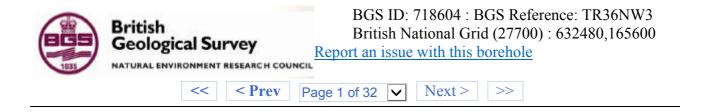
Degree of Risk	Risk Level	Action Required
1 - 4	Trivial	None
5 - 9	Tolerable	Consider more cost-effective solutions or improvements
10 - 15	Substantial	Work must not start until risk has been reduced
16 - 25	Intolerable	Work must not start until risk has been reduced. If risk cannot be reduced, project should not proceed.

The risks and their potential impacts may vary between the various stages of the project, such as the risk to and from buried services, where the impact can be much higher during a ground investigation than during a desk study.

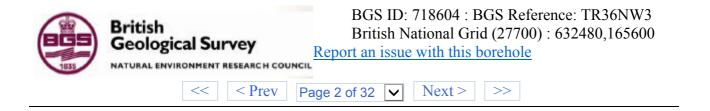
Stage	Risk No	Hazard		rior RCN	1	Risk Control Measure (RCM)		Afte RCI	М
			Probability (P)	Impact (I)	Risk ($R = P \times I$)		Probability (P)	Impact (I)	Risk (R = P x I)
Completion of Geotechnical	DS 01	Collapsible Deposits Hazard	4	3	12	Carry out Ground Investigation to characterise the chalk underlying the site.	4	3	12
	DS 02	Made Ground	4	4	16	Undertake intrusive investigation to determine extent of possible Made Ground associated with the airfield development	2	4	8
	DS 03	Ground Dissolution for Soluble Rocks	4	3	12	Undertake an intrusive site investigation to determine what ground conditions are present beneath the site. Consider the hazard in construction and building design	4	3	12
	DS 04	Historic Chalk Mining	4	5	20	Obtain further information relating to the potential for chalk mining in the surrounding area of the site and wihtin the site boundary, A mine adit and a shaft are located in the eastern and western areas of the site.	4	5	20
	DS 05	Infilled Chalk Pits	4	4	16	Undertake intrusive Ground Investigation to deliniate Made Ground extent.	3	4	12
	DS 06	Solution Features	4	5	20	Carry out Ground Investigation to characterise the chalk underlying the site and determine any solution features.	4	4	16
	DS 07	Existing underground and overhead services.	3	4	12	Ensure all utilities data are available. Avoid known services, call out service providers in critical areas, carry out CAT scans and hand excavated inspection pits at borehole locations	2	4	8
	DS 08	Uncharted services	3	4	12	Carry out CAT scans and hand excavated inspection pits to 1.20m at borehole locations	2	4	8
	DS 09	Site of ecological importance	3	3	9	Undertake an ecology survey to determine the presence of any protected species and put in place any mitigation measures to protect against any proposed works.	3	3	9
	DS 10	Unexploded Ordnance	4	5	20	Detailed UXO report required before Ground Investigation is to be undertaken following historic land use as an RAF airfield.	3	5	15
	DS 11	Effects of trees on foundation design	2	4	8	Undertake tree survey identifiting type and height	2	4	8



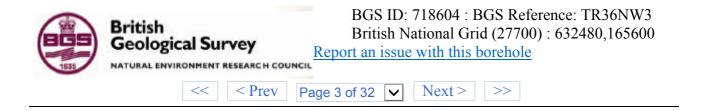
Appendix 10.1 Appendix E British Geological Society Records



At	British Geologica Gurrey		Őr	4	44
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	in parish of			is very o	des
Level of ground su	irface above sea-level (O.D.) 16 6 ft. If well starts below ground a	urface, s	tate how	far	
Shaft_6ft.,	Binneter of bore: at top	ins	.; at bo r	ish Geologia	cal S
	int mining tubes (internal diameters prefetted)			<u> </u>	
Water struck at de	epths of (feet)				
Rest-level of wate	r below top of wellfeet. Suction atfeet.	Yield	on	ho	un
	per(with pump of capacityg.p.h.); depressi				
	e of recoveryhrs. Amount normally pumped daily				
Quality (attach co	py of analysis if available)				
	Crand S.& M.	Date of	i well	1.7	L
Information from	-Le Grand	······································			
(For Survey use only). GEOLOGICAL	NATURE OF STRATA (and any additional remarks).			·	-1
CLASSIFICATION.			inches.	roet.	-
British Geological S	weShaft Sinking 6' x 4th diag Oval		Bri	ish Geologia	al S
Upper	Earth and Chalk	4			
chalk X	Chalk with occasional bands of flints				
	Chalk and Flints	94	Q	70	
sca.H. 1939	Drove 410" into old heading at this				-
logical Survey	depth - eventually drove to 2712".	British Geolo	gical Sulvey		EPTH Inche ogical Surve
X	6" band of flints at 86'6".				
	New Heading 6' x 4' then commenced and				
	continued for a distance of 5280 direction	on - 1	Nelle .	<u>-</u>	
British Geological S	Heading driven at a general level of 176	b.s	Bri	ish Geologi	cal 8
	So far as we were informed the increased				
	supply as a result of the new shaft and	8 1	1g		
	was between 35 and 40,000 g.p.h. No ac	tual			
	pumping was done by us.				
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logical Survey	British Geological Survey	British Geoli	igical Survey		
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274/8 Thanet Water Board, Ransgate TR 36/24 Whitehall Pumping Station, Whitehall Road. (a) W.S.K. pp. 184-5. Surface +99. Shaft 110 x 9 x 7 (oval). ?1835.
 (b) W.S.K. pp. 184-5. Surface +99. Shaft 115 x 9. ?1835.
 (a) and (b) Hardness: P. 59, T. 204. Anal. Mar. 1873. Headings: 4,800, floor 106% down. R.W.L. +8%. P.W.L. +2%. (winter); -4%. (summer). 1887. Headings extended to (i) 3,950 x 6 x 4½ N.N.E., floor 106½ down; (ii) 7,920 x 6 x 4½ W.S.W., floor 106% down. 1893-95. (c) W.S.K. pp. 184-5. Surface +97½. Shaft 112 x 12. Connected to (a) and (b) by headings. 1896. Headings extended to 13,000 mainly W.S.W. from (ii). Before 1905. Hardness: P. 53, T. 179. Ci 129. Anal. Jan. 1905. Headings: (iii) 4,860 N.W. from previous extension at a point where well (d) was subsequently sunk in 1933, floor -2. 1923-24. P.W.L. +2. May; -1%. Aug. Yield 52,800 g.p.h. 1934. Hardness: P. 103, T. 216. Anal. Mar. 1935. Cl 88. Mar.; 110. July; 146. Oct. 1945. P.W.L. +1, & Yield D. B. C. C. 1948. P.W.L. 14. Yield 50,000 g.p.h. Oct. 1954. Hardmins:
 P. 85, T. 245. Cl 140. Anal. September R.W.L. 12. P.W.L. 114. Yield 72,000 g.p.h. Oct. 1957. R.W.L. 174. P.W.L. 16. Yield 70,000 g.p.h. Oct. 1960. Hardness: P. 60, T. 240. Cl 50. Anal. Nar. 1961. Lord of the Manor Pumping Station. (d) (Standby). Surface +115%. Shaft 120 x 6 x 4 (oval) intercepting extension of heading (ii) in order to reduce the hydraulic gradient and risk of saline infiltration caused by pumping the entire system from Whitehall. 1933. Harchess: P. 44, T. 226. Anal. Apr. 1934. Pumped only in summer. Harchess: P. 75 Antes 220 Anal. Aug. 1957. British Geological Survey British (e) (Filled in). Construction shaft for heading extensions. Surface +166. . Shaft x 6 x 4 (oval) intercepting W. end of heading (iii). Heading: 5,280 x 6 x 4 W., floor 168 down. Increased yield from shaft and heading 35,000 - 40,000 g.p.h. eGrand, 1934-35. survey) UCL 176% 176% British Geological Surve j.) Earth & Chulk. 4 4 1 Upper Mark. * charge with occasion at bands of fricts 78 82 176-6 challe a finils 94-6 * 6" band of finits at 86'6" 6607 α. TR. 3740 -, 7 " O h. , 7 " D C, 1. d. .. 3535 6511 e. * 3248 6560



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		K. pp. 184 (b) Hardne	-5. Surface 4 ss: P. 59, T.	99. Shaft 115 x 9.	. P1835.			
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ext flo	ended to (i or 106½ dow	l) 3,960 x m. <i>1893-</i> :	6 x 4½ N.N.E., 95.	floor 106% down; ((11) 7,92	0 = 6 = 4%	W. 8. W. ,	
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ritish Geological Surve	85, T. 245. . <i>195</i> 7. R		Anal. Sept	R.W.L. +2. P.W	.L. +1%.	Yield 72,		
т. :	240. C1 5		Mar. 1961.	Yield 70,000 g.p.h.	Oct. 19	60. Hard	nessi P.	60,
Lord	d of the Mai (d) (Star				•• •			
head	(d) (Staa ding(ii) in	n order to	reduce the hydr	Shaft 120 x 6 x 4 (mulic gradient and	oval) inte	rcepting en	ttension o	f
CALI	ted by pump	ing the ent P. 44, T.	ire system from	Whitehall, 1933.		с. З		
	5, T. 220.	C1 60.	226. Anal. Anal. Aug. 1	957.	d only in	sumer. 1	lardness;	
<u>с </u>	ritish Geological Su	Irvey		British Geological Survey			British G	eological Surv
	(•) (Fill			aft for heading exte		Surface. +1	66.	1
Shef	t x 6 x 4 (oval) inte	rcepting W. end	of heading (iii). haft and heading 35,	Heading:	5,280 × 6		
	and, 1934-3		-~ yreid from B	nert mu needing 35,	,000 - 40,0	ww g.p.h.		V.
	(•) UCk							<u>`</u> `
ritish de blogical Suive	•		· British Geologi	cal Survey		176 % British Geolo	176% gical Survey	
ritish de <mark>Nogical Suiv</mark> e	•	• • •		cal Survey				
	ÿ		I BE CHARKE .					
	ÿ	.* Challe	i Is (Malle . with occasio	a a bands of fri	,cta			
	ÿ	.* Challe	I BE CHARKE .		,cta	British Geolo	gical Survey	- 6
V	pper (Maule	.* Challe Challe	i Is (Malle . with occasio	o al bands of fri	,cta	British Geolo	gical Survey 4 82 176 •	- 4
V	Y I pair (Mallic rithsh Geological Sc	.* Challe Challe	i is chalk. with occasio i i fluids	8 A bands of fru British Geological Survey	xts	British Geolo	gical Survey 4 82 176 •	eological Sd(₩
V	Y I pair (Mallic rithsh Geological Sc	.* Challe Challe	i is chalk. with occasio i i fluids	8 A bands of fru British Geological Survey	,da	British Geolo	gical Survey 4 82 176 •	eological Sdi₩
V	Y I pair (Mallic rithsh Geological Sc	.* Challe Challe	i Is (Malle . with occasio	8 A bands of fru British Geological Survey	, ct a	British Geolo	gical Survey 4 82 176 •	e d
V	Y I pair (Mallic rithsh Geological Sc	.* Challe Challe	i is chalk. with occasio i i fluids	8 A bands of fru British Geological Survey	,da	British Geolo	gical Survey 4 82 176 •	eelogical SdW
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B	P pur (Malle nitish Geological Sc	* Challe Challe 	the Challe with occasio to fluicks and of fluicks	British Geological Survey At 86'6"	, da	British Geolo 4 7 8 9 4 − 6	4 82 176 - British C	ēeologicai Sdīv
B	Y I pair (Mallic ritish Geological St y y	* Challe Challe 	the Challe with occasio to fluicks and of fluicks	British Geological Survey At 86'6"	, da	British Geolo 4 7 8 9 4 − 6	4 82 176 - British C	eological S((#
B	Y Ipper Charle ritish Geological Sc y a. Tr b	* Challe Challe 	the Challe. with occasio to fluicks nd of fluicks ad of fluicks	British Geological Survey At 86'6"	, da	British Geolo 4 7 8 9 4 − 6	4 82 176 - British C	eological St
B	Y I pair (Matter ritish Geological St y b c.	.* Challe Challe Challe * 6" bau ?: 374	Er Challe. with occasio to fluicks nd of fluicks 660 British Geologi	British Geological Survey At 86'6"	, da	British Geolo 4 7 8 9 4 − 6	4 82 176 - British C	eelogical SdW
ritish Geological Surve	a. Tr b c c c c	.* Challe Challe Challe * 6" bau ? 374 3535 3248	Er Challe with occasio to finites and of finites 660 British Geologi 5511	8 A bands of frið British Geological Survey & 86'6" cal Survey	, da	British Geolo 4 7 8 9 4 − 6	gical Survey 4 82 176 - British C	
ritish Geological Surve	a. Tr b c	.* Challe Challe Challe * 6" bau ? 374 3535 3248	Er Challe with occasio to finites and of finites 660 British Geologi 5511	British Geological Survey At 86'6"	,da	British Geolo 4 7 8 9 4 − 6	gical Survey 4 82 176 - British C	seological Surv
ritish Geological Surve	a. Tr b c c c c	.* Challe Challe Challe * 6" bau ? 374 3535 3248	Er Challe with occasio to finites and of finites 660 British Geologi 5511	8 A bands of frið British Geological Survey & 86'6" cal Survey	, da	British Geolo 4 7 8 9 4 − 6	gical Survey 4 82 176 - British C	
ritish Geological Surve	a. Tr b c c c c	.* Challe Challe Challe * 6" bau ? 374 3535 3248	Er Challe with occasio to finites and of finites 660 British Geologi 5511	8 A bands of frið British Geological Survey & 86'6" cal Survey	, da	British Geolo 4 7 8 9 4 − 6	gical Survey 4 82 176 - British C	
B	a. Tr b c c c c	.* Challe Challe Challe * 6" bau ? 374 3535 3248	Er Challe with occasio to finites and of finites 660 British Geologi 5511	8 A bands of frið British Geological Survey & 86'6" cal Survey	, da	British Geolo 4 7 8 9 4 − 6	gical Survey 4 82 176 - British C	
ritish Geological Surve	a. Tr b c c c c	.* Challe Challe Challe * 6" bau ? 374 3535 3248	Er Challe with occasio to finites and of finites 660 British Geologi 5511	8 A bands of frið British Geological Survey & 86'6" cal Survey	, da	British Geolo 4 7 8 9 4 − 6	gical Survey 4 82 176 - British C	
ritish Geological Surve	Y A ritish Geological St y b c c c w c ritish Geological St	.* Challe Challe Challe * 6" bau ? 374 3535 3248	Es Challe with occasio to finites and of finits 660 British Geologi 6511 6560	a bands q fri British Geological Survey a 86'6'' cal Survey British Geological Survey	, cta	Rritish Geolo	gical Survey 4 82 176 - British C	
ritish Geological Surve	Y A ritish Geological St y b c c c w c ritish Geological St	.* Challe Challe Challe * 6" bau ? 374 3535 3248	Er Challe with occasio to finites and of finites 660 British Geologi 5511	a bands q fri British Geological Survey a 86'6'' cal Survey British Geological Survey	, da	British Geolo 4 7 8 9 4 − 6	gical Survey 4 82 176 - British C	

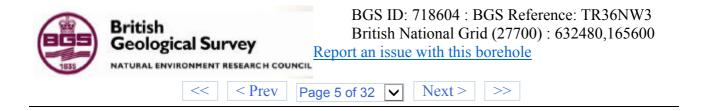
http://scans.bgs.ac.uk/sobi_scans/boreholes/718604/images/12583629.html

British Geological Survey	BGS ID: 718604 : BGS Reference: TR36NW3 British National Grid (27700) : 632480,165600 Report an issue with this borehole
< < Prev Prev	age 4 of 32 🔽 Next > >>

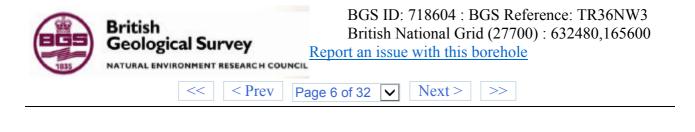
British Geological Survey			British Ge	eological Date	of Sample			British Ge	ological Surv	/ey	274
			1		3						36/24/
	Jan 12 th 1905	Feb 15 th 1905	Mar 20# 1905	april 19 *	Man 17 K	June 7 #	July 21 st	aug 23	Sept 1905	Get 12 # 1905	Nov 22 1905
	P. 5	P.5	PS	P.S.	P.S.	P.S	P.S	P.S G	PS P	PS	PS D
Description or number of sample	H	5	·J.	° K	6	M	N	6	9	2	\mathcal{R}
Appearance	very clear	very clear	clear	clear	clear	clear	clear	clear	clear	clear	clear
Colour	Green lue	green llue	groon-blue	green llue	given - blue	gran-bie	green blue	gicen llue	gron-llue	given-blue	green the
Smell British Geological S	none	none	none	none	none- titish Geologia	none	none	none	none	none- Pritich Goolog	none-
Chlorine UN Chlorides	12.95	12.74	12.81	12.88	12.88	13-37	13.79	14.98	15-82	16.66	15 54
chlorine as salt	21.34	20.99	21-11	21:23	21.23	22.03	22.73	24.68	26.07	27.45	25.61
hosphoric Acid in Phosphates	none	none	none	none	none	none	none	none	none	none	none
litrogen in Nitrates	0.78	0.71	0.73	0.75	0.75	0.75	0.71	0.62	0.78	0.54	0.58
Ammonia	none	none	none	0.0006	0.0004	0.0003	0.000.4	none	trace only	none	none
lbuminoid Ammonia	0.0006	0.0008	0.0008	0.0016	0.0021	0.0011	0.0014	0.0011	0.0014	0.0011	0.0014
oxygen absorbed in 15 minutes	trace only	trace only	trace only	trace only	trace only	trace only	trace only	trace only	trace only	trace only	trace only
xygen absorbed in 4 hours	0.024	0.030	0:042	0.036	0.042	0.030	0.052	0.030	0064	0.034	0.034
British Geological Survey Jardness before boiling (total)	23.2	23.3	2312 Ge	ological Survey	23.4	22.9	23.3	British-Ge	plogigal&un	ey 23.1	22.9
fardness after boiling (permanent)	53	5.7	56	5.7	5.8	5.3	5.4	5.6	5.7	5.5	5.3
Total solid matter	50.33	50.75	49.84	50.26	51.11	49.35	50.51	56 35	57.19	56.91	53.69
Microscopical examination of deposit	slight &	slight &	Slight &	Aught & unimportant	slight 9. unimportant	slight on unimportant	slight 9. unimportant	slight &	slight &	slight &	Sight &

British Geological Survey

British Geological Survey



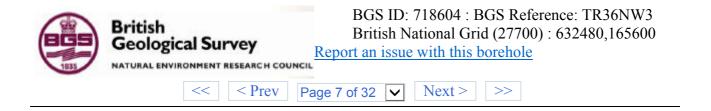
1.30-58 RAMSGATE CORPORATION GAS & WATER DEMARTMENT Gas a water offices. Boundary Koad, Ramsgooto Ken (B) UNDERGROUND WATER- (WELLS AND BORINGS) (In each case please state whether a well and/or boring is in question.) TAKEN OVER BY THE THANET WATER BOARD I. GENERAL. 1st April 1956. British Geological Sun 1. Exact site of well or boring (A map or sketch showing position would be useful.) ABC "THE Whitehall Water Works, Ramsgate. "Cold Gas Works Yard, Minster. - (Star, Kerl) The Lord of the Manor, Canterbury Road, "Ramsgate, Temporary Well & Pumping Station. 3 Wells. 1 Borehole. 1 Well. Whitehall. British Geolo Borehole, Minster. Temporary Well. 2. Surface level of ground above Ordnance Datum 3. Date of construction Whitehall Water Works was opened in 1898. Borehole, Minster. Temporary Pumping Station. 1921 1933. WELLS. 4. Depth of well from surface level of ground (i.e., 2 above). If top of well is below the surface level of the ground (i.e., 2 above) state 113 ft. how much (Whitehall Engine Room floor is on same) level as the ground. 5. Depth of floor of galleries at site of well: also dimension and direction of galleries at Whitehall. Dimensions of Adits vary generally 6' x 4' 6" with 2' Grip. 105 ft. Post in BORINGS. 6. Depth of boring from surface level of ground (i.e., 2 above). If boring is in bottom of well, state depth of well 502ft. 9ins. 12 in. 7. (a) Diameter of top of boring (b)-Diameter of bottom of boring 12 in. 100 ft. 8. Tubed from top of boring to ... No perforations. 9. Lining tubes perforated at depths of ••• 10. Water struck during boring at depths of (Tested at.) 3,000 11. What was rest level on completion of boring? ... ntish Geological Survey Varies with lavel of water, in chalk. approximately 6' + O.D. WELLS AND BORINGS. 12. Is the water raised by pump or air lift? ... air inlet 13. Depth from top of well or horing to bottom of lst 2nd STRAND LOB 1 althead



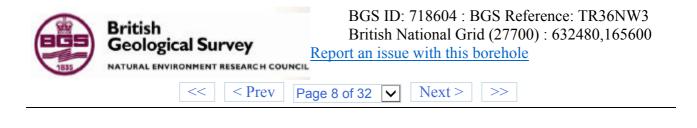
British Geological Survey				ological Surve	British Geological Survey 274							
			Da	te of a	ample			11-	1 - 30 24			
	Jan 17th.	Feb 17 # 1906	Mar 23 1906	april 20. 1906	May 16#	June 11 #	July 17# 1906	aug 27# 1906	Sept 17th 1906	Get 8#	Nov 20 # 1906	Dec 17. 1906
Description or number of sample.	PS J	P.S. 0	P.S. ??	P.5' W'	PS 'X'	P.S 'Y'	PS'Z'	P.S. "Q"	P.S . B.	P.S'B'	P.S 'D'	PS E
Appearance	clear	clear	clear	clear	clear	clear	clear	clear	clear	clear	clear	clear
Colour	groon llue	quer blue	green-blue	given-blue	green blue	gun lla	green the	green-blue	green lleve	goon-blue	groon-llue	green lla
mell	none	none	none	none	none	none	none	none	none	none	none	none
Chlorine on Chlorides	15.82	15.82	16.59	16:45	17.64	16.45	18:41	20.93	21.14	20.72	19.88	21.30
Chlorine as salt British Geological Survey	26.07	26.07	27.34	27.11	ritr 319 687.log	cal Zivley	30.33	34.49	34.84	34:14	Georogi7651	1 vey 30 1
Phosphoric Acid in Phosphates	none	none	none	none	none	none	none	none	none	none	none	non
Nitrogen in Nitrates	0.76	0.80	0.85	0.80	0.69	0.77	0.76	0.79	0.72	0.72	0.75	0.78
Ammonia	0.0006	0.0006	0.0005	0.0004	0.0003	0.0003	0.0004	0 0003	0.0003	0.0004	0.0003	0.00
Albuminoid Ammonia	0.0008	0.0014	0.0019	0.0008	0.0011	0.0008	0.0014	0.0014	0.0014	0.0010	0.0014	0.00
Oxygen absorbed in 15 minutes	trace only	trace only	trace only	trace only	an only	trace only	tracesung	trace only	trace only	trace only	trace only	trace only
Oxygen dbserbed in 4 hours.	0.044	0022	0.036	0.036	0.036	0.038	0.068	0.044	0.064	0056	0.038	0.030
Hardness before boiling (total)	27.7	27.8	27:0	27.0	27:4	26.6	27.4	28.5	28.8	28.7	28.5	286
Hardness ofter boiling (Permanent)	10.1	10.2	British Geo	godical Surve	9.8	9.0	9.8	10.9 Bri	10.9 Ish Geological	10.8 Survey	10.6	10.7
Total solid matter	53.97	54.67	57.47	55.44	60.97	53.97	60.69	67.83	67.97	66.99	66.22	66.15
Microscopical examination of deposit.	slight &	elight &	slight 9. unimportant	slight &	ight &	slight			very slight		olight on unimportant	slight -

British Geological Survey

British Geological Survey



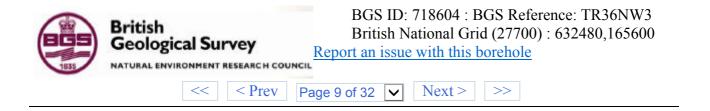
TR 36 W 2 II. If systematic measurements of water levels are made, state whether these include :---(a) Pumping levels at ... Whitehall ... Worker) Rest levels at Borehole ... Minster (d) Changes in pumping level, if rate of jumping is altered. imately 100,000 galls per 24 hours per 12" fall in water level. Also state : (e) at what intervals records are taken (i.e., daily, weekly, Daily. ... etc.) Please furnish a specimen graph of records taken over as long a period as available (up to Graphs enclosed. 1 year). III. If the measurements are made only occasionally please indicate what is, or has been, done in this respect and furnish examples of any graphs or figures available. IV. YIELDS. per 24 hours for year ended March 31st. 1934. is 1,267,000. galls. Average per hour - 52,800 gallons. Yes. Average Yes..... ----(3) If not, how many hours pumping per day? ological Survey -Ø· quantity pumped 1934. (4) Maximum daily zicktr xxalaktik ... · · · · · · · 1,596,000. galls. at -1' 8" 0.D. Estimated ----... Based on actual tests All in chalk at Whitehall Water Works and Adits. Detail of Y. If a section or record of strata can be given please attach to this form. Minster Borehole enclosed. Analysis attached. VI. (1) If a chemical analysis can be given please attach. (2) If not state hardness ... ___ All purposes. (3) For what purpose is the water uses? See attached notes is Anti-Lord of the Manor and Water able etc. sions train in i

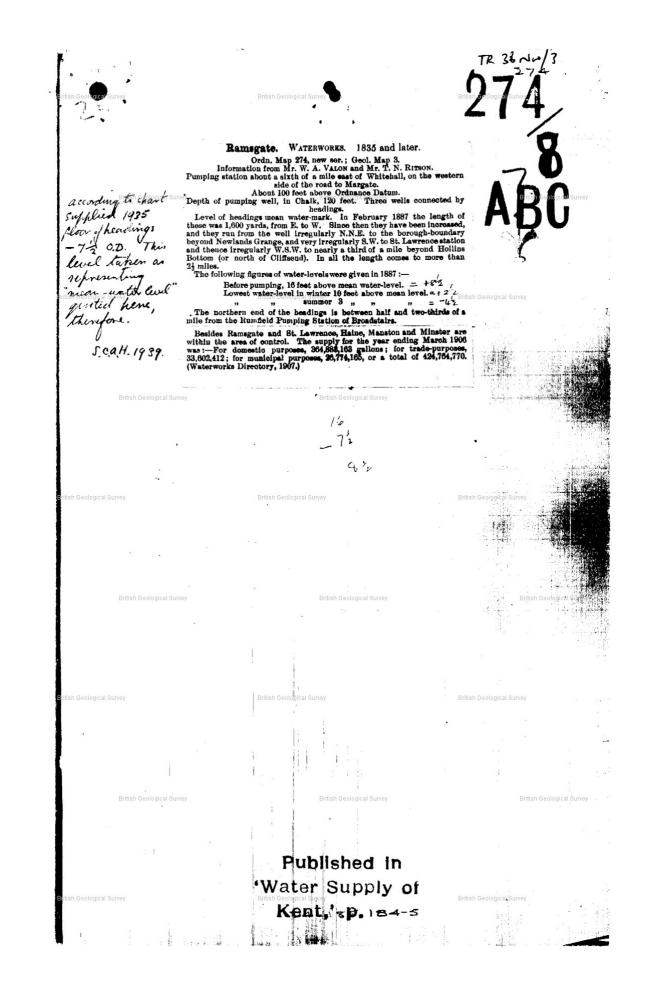


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· · · · · · · · · · · · · · · · · · ·			-5111511-000		to of Sa	mple.			momocologi	caregrey.	-14	18
/	January 22003	Feb 18 # 1903	March 17" 1903	april 200 1903	May 22 nd 1903	June 17 # 1903	July 11#	august 27" 1903	1 dept 18 # 1903	Get 17 4. 1903	Nov 20 4 1903	Lec 18 H. 1903.
Description or number of sample	P.S . 1"	P.S. " K"	PS . L'	PS M	Ps · Nº	P.S. "0"	P5: 9	PS Q	PS B:	P.S. S.	PS J	PS:W
Appearance	Elean	Elar	Elear	Elear	Elear	Elear	Elear	Elear	Elean	Elean	Elear	Elear
Colour	Green - Clue	Green blue	green-blue	gicon · Clive	gicon blue	green-blue	groon-blue	gicon blue	green-blue	gicon-blue	green blue	gicon - blue
Smell	None	none	none	none	none	none	none	none	none	none	none	none
Chlorine in Chlorides	14:28	14.77	13.72	14:42	14:77	14.07	13.65	15.05	15.26	13.65	14.77	13 31
Chlorine as salt British Geological Surve	23.53	24:34	22.61	23.76 B	24:34	23.19	22.49	24:80	25.15	22.49	n Gettiotital :	21.93
Phosphoric Acid in Phosphates	None	none	none	none	none	none	none	none	none	none	none	none
Nitrogen in Nitrates	0.71	0.87	0.79	0.68	0.72	0.75	0.76	0.73	0.71	0.71	0.79	0.67
Ammonia	None	none	none	none	none	none	none	none	0.0014	0.0004	trace only	trace only
Albuminoid Ammonia	0.0014	0.0021	0.0019	0.0014	0.0019	0.0014	0.0017	0.0008	0.0014	0.0011	0.0017	0.0011
0xygen absorfed in 15 minutes	Trace only	trace only	trace only	trace only	trace only	trace only	trace only	trace only	trace only	trace only	trace only	trace only
Oxygen absorbed in 4 hours	0.024	0.034	0.024	0 024	0.020	0.042	0.042	0.032	0.034	0.044	0.032	0.026
Hardness before boiling (total)	23.9	24.1	24.0	24.1	24.1	24.2	24.0	24.2	24.1	23.9	24.1	23.9
Hardness after boiling (Permanent)	6.4	6.5	6.4	6.5	6.5	6.3	6.1	6.3	6.2	6.0	6.3	6.1
British Geological Survey Total Solid matter	50.68	52 57	British Geo 31-24	3271	51.87	52.92	50.47	52.99 B	ritish Geologi 52:57	51 · 59	53.27	52.22
Microscopical Examination of deposit	Slight.	Hight unim-	Hight &			very slight	slight &	slight &	dight 9.	olight &	slight &	slight &
		portant	remongroutions	unimportiont	anenportant	Recymants	unimportant	unimportant	uninportant	unimportant	mimportant	unimportan!

British Geological Survey

British Geological Survey



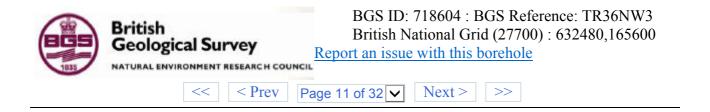


British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL Second Survey NATURAL ENVIRONMENT RESEARCH COUNCIL Second Survey Next > Second Survey Page 10 of 32 Next > Second Survey Survey Survey Survey Next > Second Survey Survey Survey Next > Second Survey Next > Second Survey Survey Survey Survey Survey Next > Second Survey

British Geological Survey			British Ge	ological Survey 2		British Geological Survey						
				9TR36/24 5								
•	Jan 20th	Feb- 1904	Mar 17 K	april 20#	May 10 K	June 22 1904	July 14 K	august 27 1904	Sept 22 1904	Get 12 #	Nov 17 # 1904	Dec 13
Description or number of sample	PS &	PS W	PS' x'	PS " 4"	PS'Z'	Ps. a.	P.S . B"	P.5 °C'	P.5 "80"	·PS·E	PS F	PSG
Appearance	Elear	clear	clear	clear	clear	elear	clear	clear	clear	elear	clear	Elea
Colour	gicon-blue	green lue	greon-blue	green - the	green lie	green-blue	given - the	green-llice	geen luce	guen-blue	green - the	Green la
Smell	none	none	none	none	none	none-	none	none	none	none	none	none
Chlorine In ChloridesBritish Geological S	rve/2.32	11-21	11.06	10.64Bri	sh Georogica	I Sulfert+ 3	10.15	12.81	12.67	ritish Geologic	13 32	12.81
Chlorine as salt	20.30	18.47	18.23	17.52	16.84	17.19	16.73	21.11	20.88	20.65	20.30	21.10
Phosphoric Acid in Phosphates	none	none	none	nonet	none	none	none	none	none	none	none	nor
Nitrogan in Nitrates	0.66	0.89	0.82	0.69	0.69	0.77	0.73	0.69	0.46	0.73	0.78	0.8:
Ammonia	none	trace only	0.0004	0.0004	none	0.0003	none	0.0003	none	00004	0.0005	0.000
Albuminoid Ammonia	0.0014	0.0017	0.0014	0.0014	0.0014	0.0016	0.0011	0.0011	0.0008	0.0008	0 0014	0.00
Oxygen absorbed in15 minutes	Trace only	trace only	trace only	trace only	trace only	trace only	trace only	trace only	trace only	trace only	have only	trace on
Oxygen abserbed in 4 hours	0.034	0.028	0.030	0.042	0.030	0.042	0.052	0.034	0.0054	0.034	0.042	0.03
Hardness before boiling (total)	23.9	23.7	23.6	23.7	23.5	23.7	23.6	23.2	22.9	23.1	23.2	22.9
British Geological Survey Hardness after bolling (permanent)	6.3	6.1	British Gei	logical Survey 6 · 1	5.9	5.8	5.7	British Go	ological Surve उन्छे	53	5.6	5.3
Total solid matter	4.8.16	46.41	45.36	46.21	44.52	43.61	44:66	49.21	48.16	47.81	51.24	48.5
Microscopical examination of deposit	Slight and unimportant	Might Giganie dethis	slight and unimportant	slight and unimportant		very slight .	slight and wimportant			very slight	dight &	

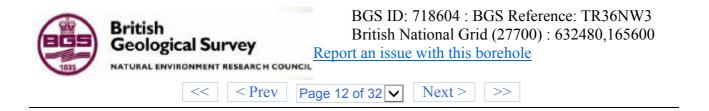
British Geological Survey

British Geological Survey



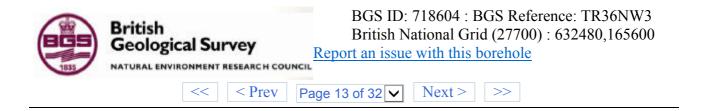
		TR 36 Nw/3
4	•	071
British (Seological Survey	British Geological Survey	British Geological Survey
	Ramsgate. WATERWORKS. (See p. 184.) Water from	m the
	- Obalk.	X A
	Well at Whitehall, 100 feet deep, March 1st, 1873. Rivers Pollution Commission. Sixth Report, 1874, p. 100 Clear and palatable. Temperature 10° C.	
British Geolog	Total solid impurity 1079 Organic carbon	. British Geological Survey
	Organie nitrogen (ne anmonia) 013 per Nitrogen as nitrates and nitrites 806 100,000. Total combined nitrogen 819	0 '
	Chlorine	
	Two analyses by G. W. WIGNER, in The Water Supply of Seconds places, 1878, pp. 30, 31. In grains per gallon.	
British Geological Survey	1. Drawn from the drinking fountain at the pler-gates, July 2. From the Surveyor, July 23rd (? 1877).	14th. British Geological Survey
	1.	<u> </u>
	Total solid matter	83*6
	bonio acid 4.2 Iron, traces.	143 6:07
	Nitrogen as amouta	-004 -0087
British Geolog	cal Survey ", ", nitrates British Geological Survey 013	-188 -000 -5017
	Total nitrogen in these four forms 4	-011
	and 422. Both of excellent colour and free from objectionable taste or a	- Part
	fault except bardness.	•
	Five samples, by S. HARVEY. Communicated by Dr. F. PA grains per gallon.	
British Geological Survey	1. From the rising main near Whitehall Works, taken at noon, At 1890.	
	 From the bottom of the well, Southwood, taken at 12.45 p.m. From heading in which workmen were at work From heading nearest the point where contamination might 	Renelwed
	5. Sample received 16th January, 1899.	1904.
	In all, appearance clear, no smell. Colour, in 5, green-bh	
British Geolog	cal Survey Eritlist Geological Survey	ar Antish Geolog/og/Agtor
	Chlorine in chlorides 1036 743 371 371 Do. reckoued as salt 1707 1237	11:62
	Ammonia trace trace 0035 trace Albumenoid ammonia 0006 0019 0025 c0025	nome 20011
	Oxygen absorbed in 15 minutes trace trace trace trace trace	traco
	hours 103 107 103 103 Total solid matter 455 40.04 30.24 30.24	*022 43*08
British Geological Survey	Hardness, before boiling 22.75° 22.23° 20.4° 20.4°	23-25 British Geological Survey
	(permanent) 3.85° 3.5° 2.2° 2.2° 1, 2. It is satisfactory to find that the supply maintains its high for organic purity and freedom from sewage-impregnation.	5-2° character
	3, 4. Assuming the two samples to represent the public supply t are very satisfactory and at no time before have such low figures	for com-
	cally pure and there is no evidence of sewage-percolation. The	is organi- figure for
·	ammonia in No. 3 however requires explanation; such an a unusual. 5. The results are satisfactory both as to organic purity and a	
British Geolog	cal Su 9eWage-percolation. British Geological Survey	British Geological Survey
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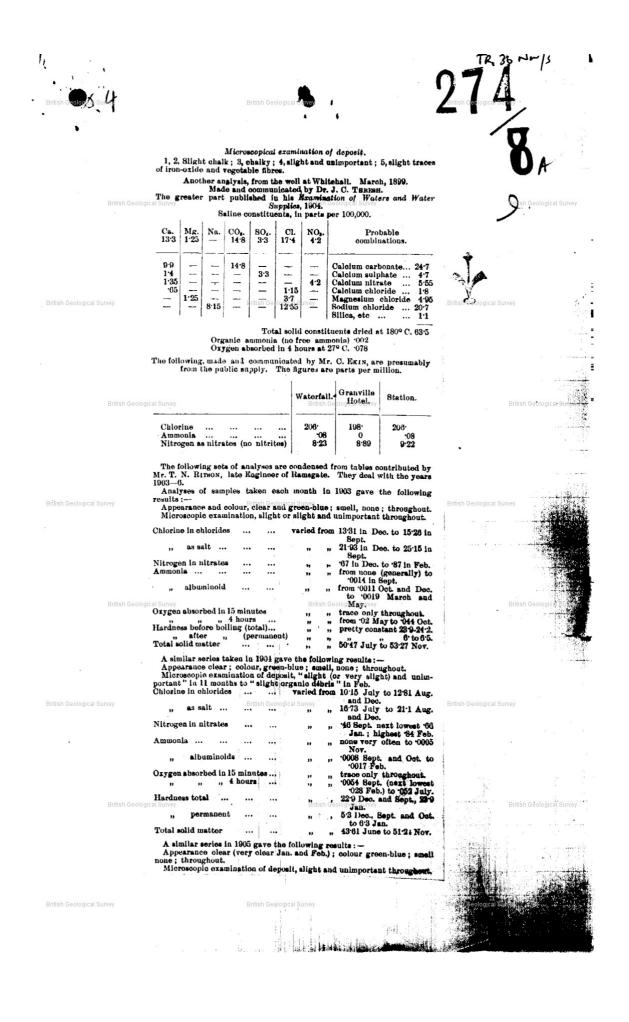
http://scans.bgs.ac.uk/sobi_scans/boreholes/718604/images/12583633.html



- 283 274 TR36/24 274/8 Ramsgate. Whitehall Pumping Station. The shafts at this Station are known now as:-British Geologi Nouvel - 12 ft. diameter x 112 ftyiedoop. No. 2 - 9 ft. * * x 115 ft. deep. No. 3 - 9 ft. x 7 ft. oval x 110 ft. deep. The dates of construction given for (a), No. 3, and (b), No. 2, we presume correct, but (a), No. 1, is later - 1896. Floor level is 97.54 above 0.D. The total length of headings in 1995 are given by Whittaker as "more than 21 miles". This is presumably the 12,320 ft. quoted in your draft. From our records this total length is approximately 13,000 ft. We have no accurate record of the dates of any heading extensions. Some work was done in 1893 - 1895 but the lengths are unknown. The normal pumping rate 70,000 g.p.h. 274/1 Lord of the Manor Pumping Station, Ramagate. This Station was commissioned in 1935 with the object of pumping more water from the middle of the long heading system from Whitehall and thereby reducing the underground hydraulic gradient caused by pumping the whole of the water from Whitehall in order to reduce the infiltration of sea water due to pumping belog w 0.D. The headings are common to both Whitehall and Lord of the Manor Stations as stated. The headings were extended in 1923/24 from Lord of the Manor in a morthwesterly direction for a distance of 4,860 ft. and again in 1934/35 turning west for a further distance of 5,280 ft. at a level of 2 ft. below 0.D. The 1934/35 extension was made by Legrand. The floor level is 115.6 above 0.D. The Station is being medernized and is likely to be in use more frequently than in the past. "Information by letter from Thanet Water Board, 30.3.61".

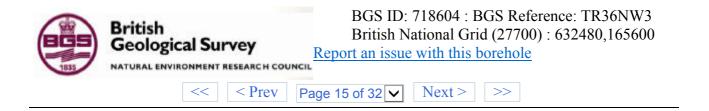
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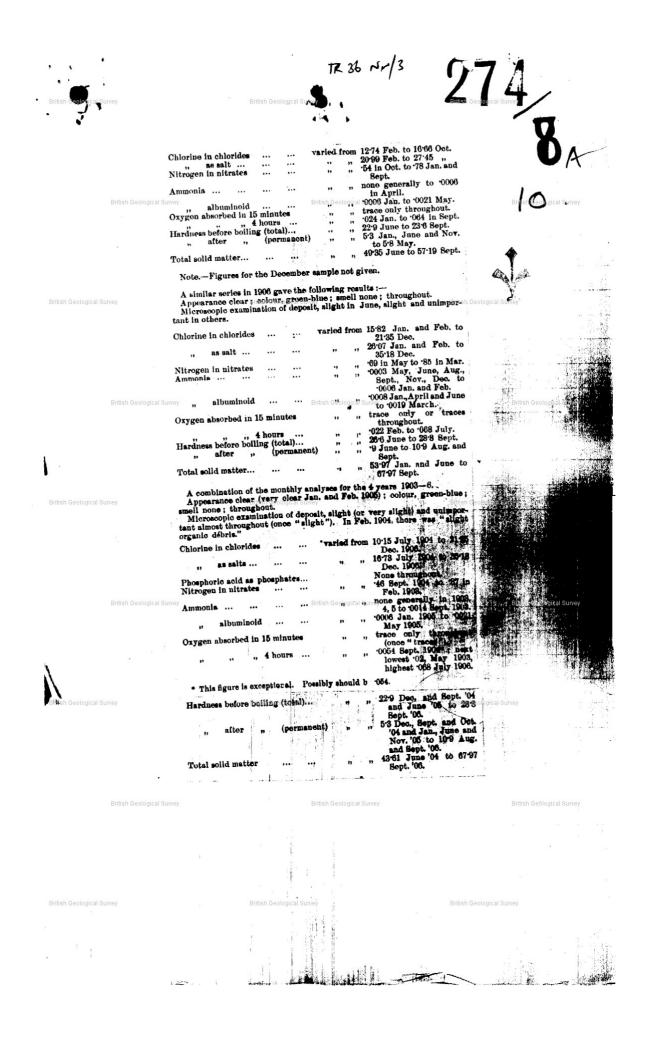


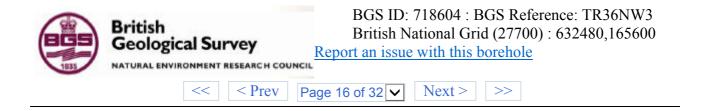


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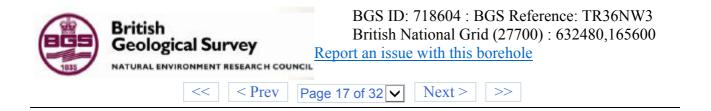
BGS ID: 718604 : BGS Reference: TR36NW3 British British National Grid (27700) : 632480,165600 Geological Survey Report an issue with this borehole NATURAL ENVIRONMENT RESEARCH COUNCIL < Prev | Page 14 of 32 Next > >>274 /18a _ Lorde of the Menor Gemporary Rump See Record 274/8. 1 . B. British Geological Survey Visited Rumphouse at 115.6 Summer bonneted with the main White hall system of headings of the Thank Water Board (17, 8, C 274/8). Britten Geological Survey d 2 e (2)22 an understood to be ronnecled by a beading their distance appart is c. 4,190 yels. The floor of the heading is assumed to be 176 ft down (b).

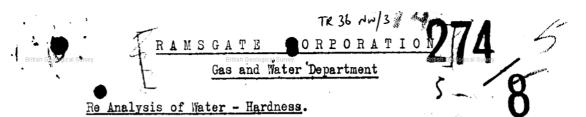






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		n parish of		<u> </u>		_) map		
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Details of permane	nt ming tubes (interna	al diameters preferre	<u>a)ione</u>	4804.				* •
Water struck at de	pths of (feet)							
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	e of recovery							
	y of analysis if availa					-		
Sunk by	Crand S.8	foOMr			Date of	well	1. 7.	
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(For Survey use only). GEOLOGICAL		NATURE OF STR.	ATA		THIC	KNESS	DEI	PTH
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	continued for	r a distance	of 5280 d	lirectio	n - 1	L.W.		-
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	supply as a n was between 3					1g		
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itish Geological Survey	· · · · · · · · · · · · · · · · · · ·	British Geological Survey			British Ge	ological Surv	ey	
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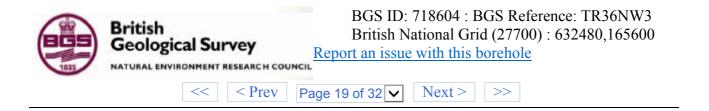
A Base-Exchange Water Softening Plant is at present being installed and will be brought into use about the end of April. 1935. The policy of the Corporation is in future to supply water of from 7 - 10 grains per gallon total hardness.

Quantity of Mater Available.

It is very difficult to give a reliable figure of quantity available as the figure would vary with varying conditions. The figure given is the maximum quantity pumped during 24 hours in 1934 and the level of the water in the Adit stood at -1' 8" O.D. management time the Adits are being extended by one mile - 4,100 feet having been completed. Water is being obtained from these extensions to the amount of approximately 30,000 to 35,000 gallons per hour with continuous pumping. Whether this quantity will be available during Summer conditions remains to be proved.

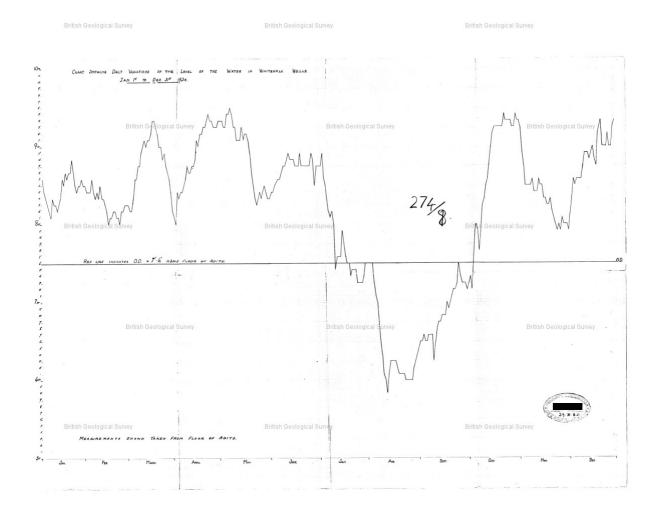
Temporary Pumping Station.

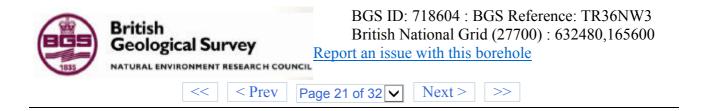
By maintaining a steady pumping level at the Whitehall Works approximately 11 million gallons per 24 hours and taking up the peak load by pumping at the Lord of the Manor temporary Pumping Station a larger quantity of water can be obtained from the Adits with a lessened depression of the water level at Whitehall - the result being a lessened risk of infiltration of chlorides from the sea and it is confidently believed a considerably increased yield of water from the Adits. Ultimately it is expected that the Pumping Set at the Lord of the Manor will be installed at a new Water Works to be constructed approximately at the end of the present extension of the Adits.



• 3.**		TR 36 No 3 97.1<
British Geologic	al Survey British Geological Survey	arish Geological Survey
		South Eastern Analytical Labor Dry, Watling Chambers, Canterbury.
	WATER ANALYSIS - Folio British Geological Survey The Borough of Ramsgate.	15th. March 1935. sh Geological Survey British Geological Survey
	Sample Marked - as below.	
	Received - 13th March 1935.	
	N. B. ALL NUMERICAL RESULTS	EXPRESSED IN PARTS PER 100,000.
British Geologic	Description or number of sample	"Public Supply, Letter "L".
	Appearance.	Clear.
	Colour.	Green-Blue.
	Smell.	Normal.
	Chlorine in Chlorides.	sh Geological Survey 12.40 British Geological Survey
	Phosphoric Acid in Phosphates.	None.
	Nitrogen in Nitrates.	1.03`
	Aramonia.	None.
British Geologic	Albuminoid Armnonia. British Geological Survey	C COLO
	Ôxygen absorbed in 15 minutes	Trace only.
	Oxygen absorbed in 4 hours.	0.023
	Hardness before boiling (total)	31.9
	Hardness after boiling (permanen	· · · · · · · · · · · · · · · · · · ·
	British Geological Survey British Geological Solid Matter.	sh Geological Survey 62.00 Target 1 Survey
	Microscopical Examination of Dep	osit. Slight and unimperson
	Chlorine as "Salt"	20.44
British Geologic	Remarks:-	satisfactory and indicates way
	organically pure	and free from sewage percolation.
7	The Microscopical	Examination is also satisfactor
	The figures for "Chlo	rine", "Total solid matter" and
	British Geological Surve,"Hardness" are all lo	wer that when this supply was last
	examined in September	
	(Sig	ned) Ernest M. Hawkins.
	Public	Analyst, Borough of Ramsgate.
British Geologic	al Survey British Geological Survey	British Geological Syrvey

British Geological Survey	BGS ID: 718604 : BGS Reference: TR36NW3 British National Grid (27700) : 632480,165600 Report an issue with this borehole
< Prev Pa	age 20 of 32 Next > >>





274/ TR: 26 N/m/3 Whitehall Pumping Station. The shafts at this Station are known now as: -No. 1 - 12 ft. diameter x 112 ft. deep. No. 2 - 9 ft. * x 115 ft. deep. No. 3 - 9 ft. x 7 ft. oval x 110 ft. deep. are unknown. The normal pumping rate 70,000 g.p.h. 274/1 Lord of the Manor Pumping Station, Remagate. from the middle of the long heading system from Whitehall and thereby reducing the underground hydraulic gradient caused by pumping the whole of the water from Whitehall in order to reduce the infiltration of sea water due to pumping belogies 0.D. as stated. for a further distance of 5,280 ft, at a level of 2 ft. below 0.D. The 1934/35 extension was made by Legrand. The floor level is 115.6 above 0.D. The Station is being modernised and is likely to be in use more frequently than in the past. "Information by letter from Thanet Water Board, 30.3.61".

274/8 Ramsgate.

The dates of construction given for (a), No. 3, and (b), No. 2, we presume correct, but (a), No. 1, is later - 1896. Floor level is 97.54 above 0.D. The total length of headings in 1905 are given by Whittaker as "more than 2y miles". This is presumably the 12,320 ft. quoted in your draft. From car records this total length is approximately 13,000 ft. We have no accurate record of the dates of any heading extensions. Some work was done in 1893 - 1895 but the lengths

The headings are common to both Whitehall and Lord of the Manor Stations

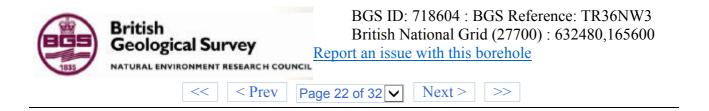
The headings were entended in 1923/24 from Lord of the Manor in a morthwesterly direction for a distance of 4,860 ft. and again in 1934/35 turning w The Station

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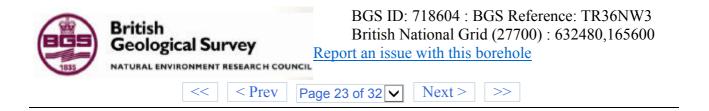
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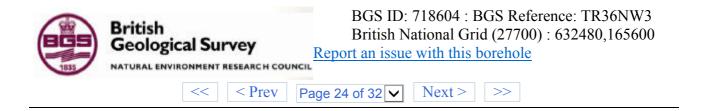
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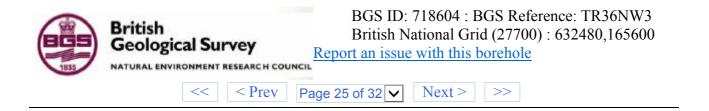
TR 36 ~~ /3 COPY 15 THE COUNTIES PUBLIC HEALTH I (THREEM, BEALS & SUCKLING VICTORIA STREET, MILLA B.S. FRIC. KES Your ref. ANALYSIS OF A SAMPLE OF WATER received 2/3/57 Our net M.ME. 13. From BUSATHANET WATER BOARD Lobellad Newlands Adit ' Whitehall Pomping Station - Ramsgate. Doce 2/9/57 9.20 a.m. Token by: C. Saundars Witness J. Mc Hanry Signed C. Saundars. CHEMICAL RESULTS IN PARTS PER MILLION Appearance Bright with Britist and an particles British Geological Survey Turbidity LESS than 3 Colour Nil Electric Conductivity. 860 Dissolved Solids dried at 180°C. 585 Chlorine present os Chloride 126 Alkalinity as Calcium Carbonate 240 Hardness: Total 325 Carbonate 240 Non-carbonate Nitrote Nitrogen 15 Nitrite Nitrogen Lass the Ammoniacel Nitrogent 0.000 Oxygen Absorbed 9:10 Albuminoid Nitrogent 0.000 Residual Chlorine Absens Metals Iron less than 0.03, Zinc 0.80, other me CTERIOLOGICAL BESULT Number of Colonies d Presumptive Coli-scrogenes Reaction Boct. coli. (Type I)..... Cl. welchii Reaction



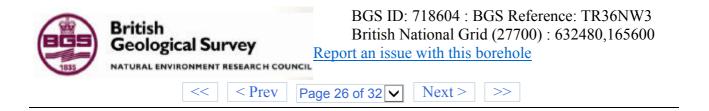
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R. F. RACKHAM, BSC, MR.SH.		Your ref
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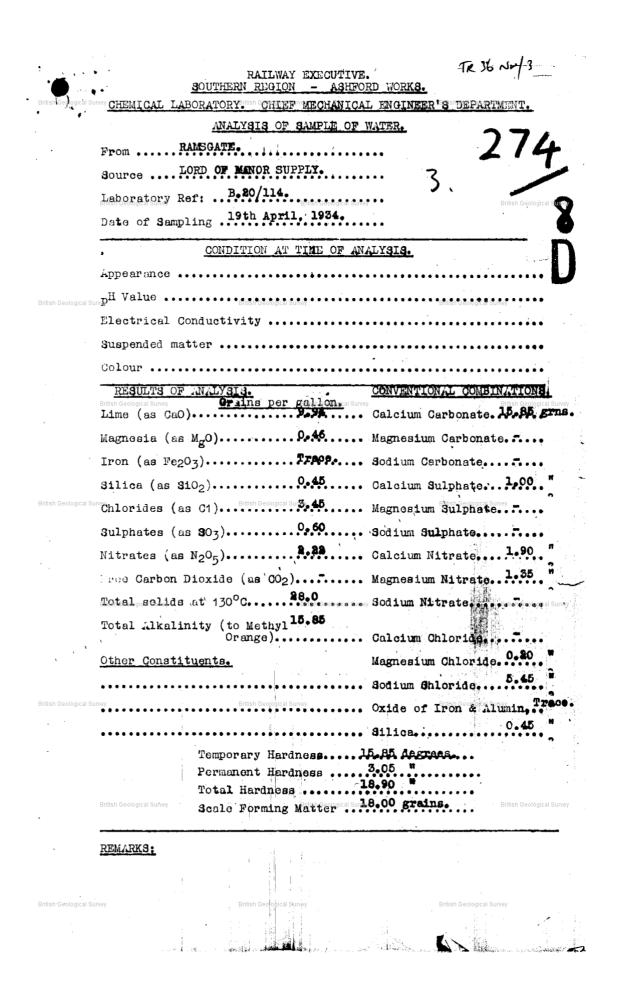


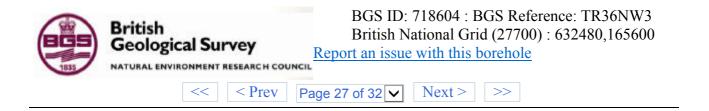
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XOY C. HOATHER, B.Sc., Ph.D., F.R.LC., F. M. A. BULLOUGH, C.B.B., M.Se., M.B.C.N.B SORDON MILES, B.Sc., F.R.LC., F.R.S.H. U. F. RACKMAN, B.Sc., M.R.S.H. I, ENGLISH, B. Pharm., B.Sc., F.R.LC.		THRESH HOUS VERULAM STREE GRAY'S INN ROA LONDON, W.C.	T, Telegrams : SPO D,		
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ROY C. HOATHER, B.Sc., () W. A. BULLOUGH, C.B.L., GORDON MILES, B.Sc., F.B A. F. RACKHAM, B.Sc., M.B E. ENGLISH, B. Pharm., B.Sc	M.B., M.B.Ch.B., D.P.H. LI.C., F.R.S.H. LS.H.	THRESH HOUSE, VERULAM STREET, GRAY'S INN ROAD, LONDON, W.C.I.	Telephone I CHAsser 1301 Telegrame I SPOROG 18, F
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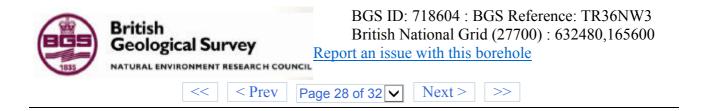




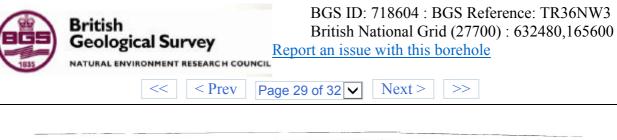


Page 2 of 2

TR 36 NU/3 THE COUNTIES PUBLIC HEALTH ONDON, SW.) Your nef. . From THANET WATER BOARD Lobelled Bib Cock- Engine Room, Ramsgate. Lord of the Manor Pumping Station Dec G.8.57 10.10am Token by D.T. Gora Witness H. Yaughan Super D.T. Gora CHEMICAL REBULTS IN PARTS PER MILLION Apperonce Bright with very antistification survey articles. Turbidity Less than 3 Nil Oder Vary faint shirtness PH Survey 7.3 British Geological Survey Fras Corber Disorcide. British Geological Survey Electric Conductivity 640 Disselved Solids dried at 180°C 430 Hardness: Total 295 Carbonate 220 Non-carbonate 15 Nitrota Mitrogen 13 Nitrita Mitrogen Lass than Q101 Ammoniacal Nitrogent 0.000 Oxyger Absorbed 0.10 Albuminoid Nitrogent 0.000 Residual Chlorine 0.15 Metels Absent NSL Gentral Cal Survey norm matinty by 12 CTERIOLOGICAL RESULTS Bact. celi. (Type J) Cl. welchii Reaction (Cir



274 274 /184 Lorde of the Manor Temporary Rumping See Record 274/8. 1 ... B. British Geological Survey 1 . Visited Pumplonie at 115.6 Mandly supply pumped any on summer bounded with the main while hall system of headings f the Educt Water Course (F. B. C 274/8). British Geological Survey (1) an under tool to be commisted by a beading the dilance appeart is c. 4,190 yels. the place of the harding is around to be 176 fb down (b). sh Geolog British Geological Surve British Geological Survey British Geological Survey



ption or number of sample nee he \$n Chlorides he as all bris Acid in Phosphates m in Stirates	23.5 23.5 23.5 23.5 23.5 25.5 25.5 25.5 25.5 25.5 None	Elar	1905 45 - 2° Elear	april 200 1903 15 M. Elear	Roy 22 1903 Roy 22 1903 Ros N. Elear guan blue none 14.77	Por 17' 1903 RS. 'O' Elear guen-tice none	none-	august 27 1903 PS Q Elear guon blue none	lept 13 " 1903 PS B Clear green-blue nore	Get 17 " 1903 PS'E Elean gron elle	HO3 PS J	1903. 1903. PS-00 Elear groon-be
ance ne ên Chlorides ne as salt prie Asid in Phosphates	23-4 19.03 7.5 5 6 tear Green blue None 14. 28 23.53	1903 PS R Clear Guon blue none 14.77	1905 195°-2° Elear guon-tlue none 13°72	1903 PS: M Clean Glean groon-Cline none	1903 PS N. Clear gron-blue none	1903 Rs. O Clear guen-tice none	PS: P Elear gen bla none	PS Q Elear	1903 PS 2: Elear	PS. E.	HO3 PS J	1903. PS-10 Pelo
ance ne ên Chlorides ne as salt prie Asid in Phosphates	E lear Green the None 14: 28 23:53	Clar Geomblie none 14:77	Elear guon-llue none 13:72	Clear gion-télu none	Elear guon-blue none	Elear gum-tére nome	Elear gen bla	Elear	Elear	Elean	PS J	PS-W
ne ŵn Chlorides ne as salt oris Acid in Phosphates	Groon - Elie None 14: 28 23:53	Geon blue none 14.77	græn-blue none 13-72	gion delle none	guon-blue none	guen bis none	gon blu	Elear gum blue none	Elear green blue none	Elear geom-bla	Cha	Re
ne as salt	None 14:28 23:53	14.77	13.72	none	none	none	none-	geon blue none	quen blue	gion la	gicon the	gicon - O
ne as salt	14:28 23:53	14.77	13.72	none	none	none	none-	none	none	Junita	gieon can	gicon . C
ne as salt	23.53			14:42	14:77							
orie Acid in Phosphates		24:34	12.61			14:07	13.65	15.05	15 26	13:65	none	non
	None		22.01	23.76	24.34	23.19	22.49	24.80	25.15	22.49	14.77	13.31
- In Filterster		none	none	none	none	none	none	none	none	none	7.070-	21.9.
en in Mitrates	0.71	0.87	0.79	0.68	0.72	0.75	0.76	0.73	0.71	0.71	0.79	0.67
•	None	none	none	none	none	none	none	none		/	trace only	'
noid Armonia	0.0014	0.0021	0.0019	0.0014	0.0019	0.0011	0.0017	0.0008			0	0.001
absorted in 15 minutes	Jace only	trace only	trace only	trace only	lias my	trace one	trace only	trace only				Since Son
absorbed in 4 hours	0.024	0.034	0.024	0.024	0020	0.042	0.042	0.032	0 034	0	0	0.02
as before boiling (total)	23.9	24.1	24 0	24.1	24.1	24.2	24.0	24.2	24.1			23.9
s after boiling (Permanent)	6.4	6.5	6.4	6.5	6.5	6.3	6.1	6.3	6.2	,		6.1
Solid matter	50.68	52.57	51 24	52.71	51.87	52.92	50:47	52.99	52.57			32.22
sopical Examination of deposit	Slight.	Hight unim		Hight 9.	Slight &	200 and	ALCA .	dale 2	dialt 9	1		
		portant	immyhostant	minfortant	minfortant		in the					slight
	absorted in 15 minutes absorted in 4 hours s before boiling (total) s after boiling (Permanent) olid matter	absorbed in 15 minutes Jacc only absorbed in 4 hours 0 024, s before boiling (total) 20-9 s after boiling (Permanent) 6-9 olid matter 30 69	absorbed in 15 minutes Junce on if free on if free absorbed in 4 hours 0 0 24 0 0 34 s before boiling (total) 23 - g 24 / s after boiling (Permanent) 6 - f 6 - 5 olid matter -30 - 65 32 - 37 opical Xemination of deposit -56 - 5 56 - 5	absorbed in 15 minutes Jacc only face only	sharfed in 15 minutes Jacc only Law onl	sharfed in 15 minutes Junce only lunce only <thlunce only<="" th=""> lunce only</thlunce>	sharfted in <	absorbed in 15 minutes Jacc only low	absorbed in 15 minutes Junce on if the only	Absorbed in 15 minutes Jaco and bis and file and fil	absorbed in 15 minutes Jack off face only face on	absorbed In 15 Number Number of face only face on

British Geological Survey

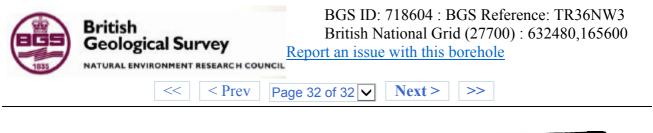
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305) G	itish eological Surv		i coui]	Britis	h Na		l Gri	d (27	7700)		e: TR36NW 32480,16560
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1					2				TR	36 ~~/3	27	4-1	
	1	• • •				Dale of	Sample			1	9	18	3
British Geolog	ical Survey	Jen 20 -	Feb 1904	Mar 17 K	april 20"	1600 10 K	June 22 1904	July 14 K	august 27	Sept 22 1904	Get 12 # 1904	1904	1904
Bhilish Geolog	Description og number of sample	PS' D'	PS W	P5' x'	P5 '4'	PS'Z'	Ps. a.	PS . 33"	P.5 'C'	PS 'O'	· P5 · 6'	PS'F'	PSG.
	Appearance	Ellar	clear	clear	clear	clear	elear	clear	clear	clear	clear	ellear	Elean
	Colour	geon-llia	gum lin	guon-blue	guen-llue	guen lie	gun -blue	geon-blue	guen llie	gun lue	quen leve	green la	Green Elas
	Smell	nou	none	none	none	none	none	none	none	none	none	none	none
	Chlorine \$n Chlorides	12.32	11.21	11.06	10.64	10.22	10:43	10.15	12.81	12.67	12 53	12.32	12.81
	Chlorine as salt	20.30	18:47	18.23	17.52	16.84	17:19	16.73	21.11	20.88	20.65	20 30	21.10
	Phosphorie Acid in Phosphates	7.000	none	none	nonef	none	none	none	none	none	nore	none	none
	Nitrogen in Nitrates	0.66	0.89	0.82	069	0.69	0.77	0.73	0.69	0.46	0.73	0.78	0.83
	Ammonia	none	tiace only	0.0004	0.0004	none	0.0003	none.	00003	none	0 0004		s 0·0004
	Albuminoid Ammonia	0.0014	0.0017	0.0014	0.0014	0.0014	0.0016	0.0011	0.0011	0.0008	8000.0	0.0014	
	Oxygen absorbed into minates	Frace only	time only	trace only	trace only B	Mace Only	and Suge	trace only	trace only.	trace only	trace only	/	www.gical Survey
	Oxygen absorbed in 4 hours	0.034	0.028	0.030	0.042	0.030	0.042	0.052	0.034	0.0054	0.034		0 0 0 3 6
	Hardness before boiling (total)	23.9	23.7	23.6	23.7	23.5	23.7	20.6	23.2	22.9	23.1	23.2	
	Hardness after boiling (permanent)	6.3	6.1	6.0	6.1	5.9	5.8	. 5.7	5.4	5.3	53	5.6	5.3
	Total solid matter	48.16	46.41	45.36	46.21	44.52	43.61	44:66	49.21	48.16	47.81	1	48-51
	Microscopical examination of deposit	digli and	light bigon	dight and	slight and unimportant	light and	very slight	slight and	dight and	slight and interpretant	son slight	- digles	Slight 7. Zowinpuloni
				L		.1		1	1				in and the second se



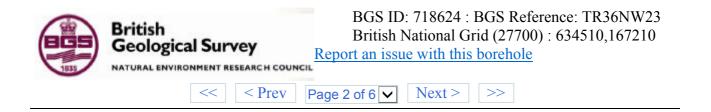
• · · · · · · · · · · · · · · · · · · ·	<u>.</u>			22					-		274	8
	Jan 12 #	Feb 15"	Mar 20#		to the of	June 7 "	July 21#	aug 23	Apt of the Apos	10 TE 36 Gat 12 # 1905	Ater 22 1905	_ o _
ish Geological Survey	P. 5	P.S	PS	Bitten Get	PS	P.S.	AS .	P.S	Ps	PSBriti	sh <i>f</i> agolo	gical Sarvey
description or number of sample	#	5.	1.	A	2	M	N.	·G [·]	D.	2	R	
ppearance	vory ches	very clear	clear	clear	clear	clear	clear	clear	char	clear	clear	
colour	Green llus	green lac	gron-blue	groon the	goon - Clue	gron-blue	guen blue	quan the	gun la	guen-blue	grow the	
mell	none	none	none	none	none	none	none	none	Turne	none	none	
hlorine (A Chlorides	12.95	12.74	12.81	12.88	12.88	13.37	13.79	14.98	15.82	16.66	15:54	
hlorine as salt	21.34	20.99	21 11	21.23	21.23	22.03	22.73	24.68	2607	27.45	25-61	
hosphorie Acid in Phosphates	none	none	none	none	none	none	none	none	rome	none	none	
itrogen in Nitrates	0.78	071	0.73	0.75	0.75	0.75	0.71	0.62	0.78	0.54	008	4
monia	none	none	none	0.0006	0.0004	0.0003	0.0004		tiace only	none	none	
10mminoid Amnonia British Geological	P 19996	0.0008	0 0008	0.0016	0.0021	BAIRA/Geo	logicaPstriv	10.0011	0.0014	0.0011	0.0044	British Geological
xygen absorbed in 15 minutes	trace only	trace only	trace only	trace only	trace only	trace only	trace only	trace only	trace only	trace only	frace only	
xygen dbsorbed in 4 hours	0.024	0.030	0:042	0.036	0.042	0.030	0052	0.030	0 064	0034	0.034	
ardness before boiling (total)	232	23.3	23.2	23.3	23.4	22.9	20.3	23.5	23.6	23.1	22.9	
ardness after boiling (permanent)	53	5.7	56	5.7	5.8	5.3	5.4	5.6	\$.7	5.5	5.3	
otal solid matter	50.33	50.75	49.84	50.26	51.11	49.35	50.51	36.35	57.19	56.91	53.69	
icroscopical examination of deposit	slight &	slight 9. shimpertant	dight &	Aught 9. whimportant	slight &	slight 9, uninfortant	slight 9. unimportant	slight &	alight ?	dight &	dight &	
						3						

http://scans.bgs.ac.uk/sobi_scans/boreholes/718604/images/12583648.html



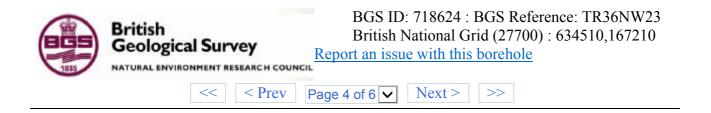
ritish Geological Survey	for 17th	Feb 17 #	Da Mar 23 1906	april 20	1.7.1	1905	1417	1906	146 7ª 1906	Gat : A	Nor 20 # 1906	Dec 17# 1906	I Survey
secription or number of sample.	1906 Ps . J .	PS. U	RS:2"	P.S' 4	PS 2:	PS y	AS'Z'	As. 'a'	AS . D	A6'8'	RS D'	AS E	
escription or number of sample.	char	chor	cha	char	char	clear	char.	clar	gum lin	man-lite	man the		
olour	r ·	gun blac	gun lla	guan the	gover blue	none	none	none	nome	none	none	Hone	
hlorine \$1 Chlorides	none . 15.82	15.82	16.09	16:45	17.64	16.45	18:41	20.93	21.14	20.72	19.88	21.35 35.18	
hlorine as salt	26.07	26.07	2734	27.11	29.07	27.11	30.33 none	34:49 none	34.84	34:14	32.76	none	
hosphorie Acid in Phosphates	none 0.76	2000e	none 0.85	0.80	0.69	0.77	0.76	0.79	0.72	0.72	0.75	0.78	
itrogen in Nitrates	0.0006	0 0006		0.0004	0.0003	0.0000	0.0004	0 0003	0.0003	0 0004		0.0003	
amonia Ibuminoid Amonia British Geologica	5819898		1	0.0008	0 0011	0.0008	0.0014	0.0014			1	tree only	British Geological Survey
xygen absorbed in 15 minutes	tian mly	10022	0.036	0.036	0.036	0.038	0.068	0.044	0.064	0056	0.038	0.030	
Dxygen dbserbed in 4 hours. Hardness before boiling (total)	27.7	27.8	27:0	27.0	27.4	26.6	27.4	28.5	28.8	28.7	28.5	28.6	
Hardness after boiling (Permanent)	10.1	10.2	94	91	9.8	9.0	9.8	67.83	67.97	10.8	4.22	66.15	
Total solid matter	53.97 dial 9	54:67 dist 9	57:47 digle 9	55.44 digty		slight	diston	dight 9	very dight	stight a		slight &	
Microscopical examination of deposit.	animpolo	1 6	anintorian				uninfortan	anighortant	aninforten	montoriant	ininfortant	unenprostanc	

British Geologi	British N	718624 : BGS Reference: TR36NW23 National Grid (27700) : 634510,167210 e with this borehole
	< < Prev Page 1 of 6	Next > >>
British Geological Survey	RECORD OF WELL	For Institute use only Licence No. TR 36 NW 22023.1.5.090
	AL SERVICE RETHER CONTROL SUPPORT	$274/_{58}$ A
EXACT SITE	Six-inch National Grid sheet and reference TK. 34	ant. Water and Drainage Division
British Geological S .DELETE	Address (if different from above) . Westwood . Road	ft (
British Geological Sumerica AS	SHAFT	
NECESSARY British G	HEADINGS (please attach details-dimensions and di BORE	ter: at top
British Geological Survey TEST CONDITIONS	depression toft (m) below we Capacity of pumpg.p.h. (well top. Suction at. <u>Hander Geological Survey</u> m) galls per
CONDITIONS	DESCRIPTION OF PERMANENT PUMPING EQUI Make and/or type	Suction at
British Geological Survey LOG OF	British Geological Survey	British Geological Survey
STRATA		Received from
	GEOLOGICAL SCIENCES British Geological St	Date
Hydrogeolo Exhibition London SW	ROAD	6" mapGrid Sheet (use symbol) Copy to
,	GS 2494 10 000 7/79	Date



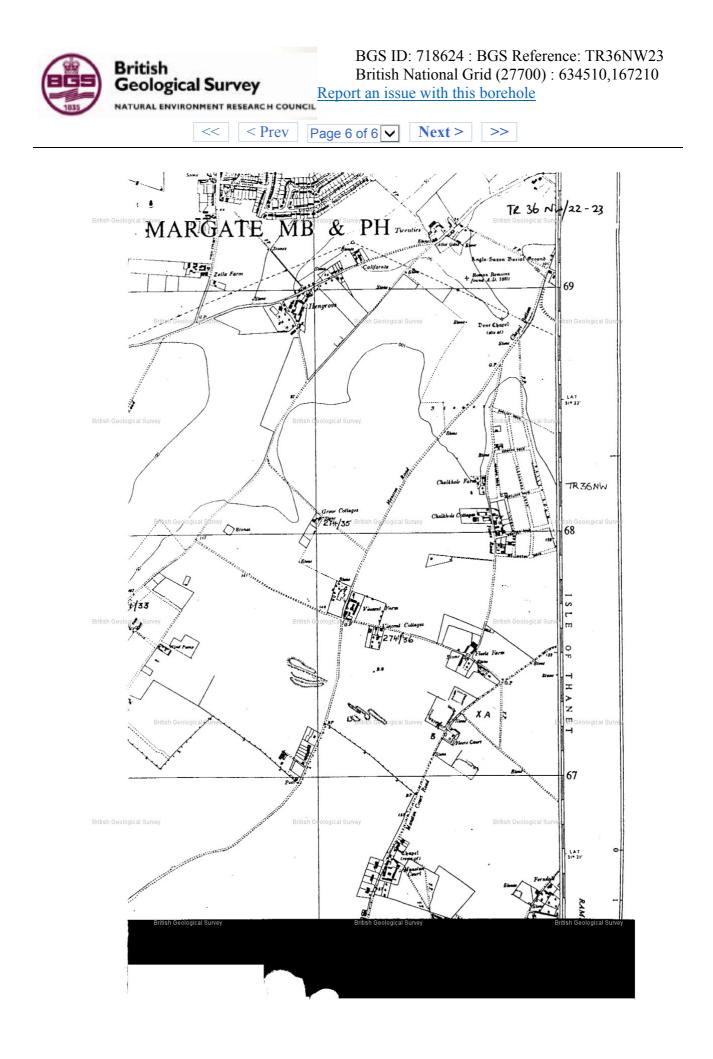
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	MANSTON	·		/ 7 /	
1	Town or VillageNr.	Ramsgate.			20 -
	County Kent			í	20
EXACT SITE	British Geological Survey Six-inch County Sheet		Jeological Survey	-	British Geological Survey
OF WELL	8" N.D. Washout	Borehole	. <u>2.74,/58</u> BGNW		1
	Six-inch National Grid shee				
	For Southern Wat				ainage Division
	State whether owner, tenan	it, builder, contractor, con	sultant, etc.:—	Owner	
_ ·	Address (if different from a	bove) Westwood Ro	bad, Broads	tairs, Ken	
British Geological	n survey	British Geological Survey			ological Survey
	Level of ground surface ab	ove sea level (O.D.)	ot Known	ft (
*DELETE	If well top is not at ground	level, state how far above	*	ft (
AS	SHAFTft (•		
NECESSARY	HEADINGS (please attach			· · · · · · · · · · · · · · · · · · ·	
	BORE		,	8 :	British Geological Survey
			meter: at top	in (
	bottom8"in (
	Full details of permanent line				
	$40m \ge 8\frac{5}{8}$ " 0.D.	T O			tube
	installed to 4	Om B.G.L. the to	op being le	ft at G.L.	
			•••••••••••••••••••••••••••••••••••••••		
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British Geological	Water struck at depths of Rest level of water	.Notrecorded	ft (- bove [*] well top. Si elow	British Geo	ft (m)
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TEST	Water struck at depths of Rest level of water	.Notrecorded	ft (- bove* well top. Si elow	British Geo	ft (m)) perwith British Geological Minis
TEST	Water struck at depths of Rest level of water	.Notrecorded	ft (- bove* well top. Si elow	British Geo	ft (m)) perwith British Geological Minis
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TEST	Water struck at depths of Rest level of water	.Notrecorded ft (ft (British Gee	ft (m)) per with Bittigh Geological minis hours
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TEST CONDITIONS	Water struck at depths of Rest level of water	Not. recorded	ft (British Geo uction at	ft (
TEST CONDITIONS	Water struck at depths of Rest level of water	Not. recorded ft (ft (torve* well top. Si elow well top. Recov galls (EQUIPMENT: Mo er hour. Suction a galls () per week	British Ged	
TEST CONDITIONS	Water struck at depths of Rest level of water	Not. recorded ft (ft (torve* well top. Si elow well top. Recov galls (EQUIPMENT: Mo er hour. Suction a galls () per week	British Ged	
TEST CONDITIONS	Water struck at depths of Rest level of water	Not. recorded. ft (ft (British Gee action at	
TEST CONDITIONS	Water struck at depths of Rest level of water	Not. recorded. ft (ft (bore* well top. Si 	British Geo Line of sinkingJu atte of sinkingJu	
TEST CONDITIONS	Water struck at depths of Rest level of water	Not. recorded. ft (ft (British Gee uction atm ³ ery to rest level in Not Pumped tive power atte of sinking	
TEST CONDITIONS	Water struck at depths of Rest level of water	Not. recorded	ft (British Oee	
TEST CONDITIONS CONDITIONS CONDITIONS	Water struck at depths of Rest level of water	Not. recorded	ft (British Oec	hours hours
TEST CONDITIONS CONDITIONS CONDITIONS	Water struck at depths of Rest level of water	Not. recorded	ft (British Geo British Geo action at	
TEST CONDITIONS CONDITIONS CONDITIONS LOG OF STRATA OVERLEAF	Water struck at depths of Rest level of water	Not. recorded. 	ft (British Geo British Geo British Geo ate of sinkingJ ate of sinkingJ ble) Received Date Observati Recorder, E.R. log	
TEST CONDITIONS CONDITIONS CONDITIONS	Water struck at depths of Rest level of water	Not. recorded	ft (British Gee action at	
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TEST CONDITIONS CONDITIONS CONDITIONS LOG OF STRATA OVERLEAF British Geological	Water struck at depths of Rest level of water	.Notrecorded ft (ft (ft (British Oee	
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British Geologic	British	D: 718624 : BGS Reference: TR36NW23 n National Grid (27700) : 634510,167210 sue with this borehole
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	, 	For Institute use only Licence No.
British Geological Survey	RECORD OF WELL British Geological Survey At Service Reservoir Fleete MANSTON	274, B
EXACT SITE	Town or VillageNr. Ramsgate. County Kent.	- /58
OF WELL British Geo	8", N.D. Washout Borehole Sixinch National Grid sheet and reference BritisTRaig For Southern Water. Authority, Ea	6 N.W. 3451 672) TR 36 NKO/23 st Kent Water and Drainage Division
		ad, Broadstairs, Kent.
British Geological Survey DELETE AS NECESSARY	Level of ground surface above sea level (O.D.)	rft (m);
British Geo	BORE	neter: at top8in (cm); at
	40m x 83" O.D. x 16 W.T. plai installed to 40m B.G.L. the to	n mild steel lining tube p being left at G.L.
British Geological Survey	Rest level of waterBritish Geological Su144m) at	ft (m) below well top סיפילי well top. Suction at איזיסי איזיסי (וויקריסי m) elow
TEST CONDITIONS	Yield on hours'* test pumping at depression to ft (m) below Capacity of pump g.p.h. (m ³ /h)
British Od NORMAL	DESCRIPTION OF PERMANENT PUMPING E British Geologi Make and/or type	QUIPMENT: British Geological Survey Motive power
CONDITIONS	below well top. Amount pumpedgalls (m	
British Geological Survey	ADDITIONAL NOTES Brit ANALYSIS (please atta). Ltd Date of sinking. June/July, 1981 ach copy if available) British Geological Survey
LOG OF STRATA		Received from
OVERLEAF British Geo	logical Survey British Geologi	Observation well Recorder E.R. log
Institute o Water Dep South Ken: London, S.	SINGTON,	6" map (use symbol) Copy to Date



	11.999 (¹	12	14	300		_ `	-
(For Institute use only)	NATURE OF STRATA British Geological Survey		THICKN	ESS British Geologica	I Survey	DEPTH	[
GEOLOGICAL CLASSIFICATION	If measurements start below ground surface, state how far.	Feet	Inches	Metres	Feet	Inches	Metr
HEAD	Sandy clay and stones.			4.00			
BRICKEARTH	Soft silty clay			1,00			
Bri	ish Geological Survey British Geological Survey Stone. and dark brown sand.			0.50	British	Geological	Survey
	Soft chalk with some flints			10.50			16.0
UPPER	Softchalk.with.some.very.soft						
CHARK	seams, flints.			24.00			40.0
British Geological Survey	- Pritich Coological Survey	1			l Survey		•••••
	Soft.chalk.			initish Geologica 10₊00			.50.0
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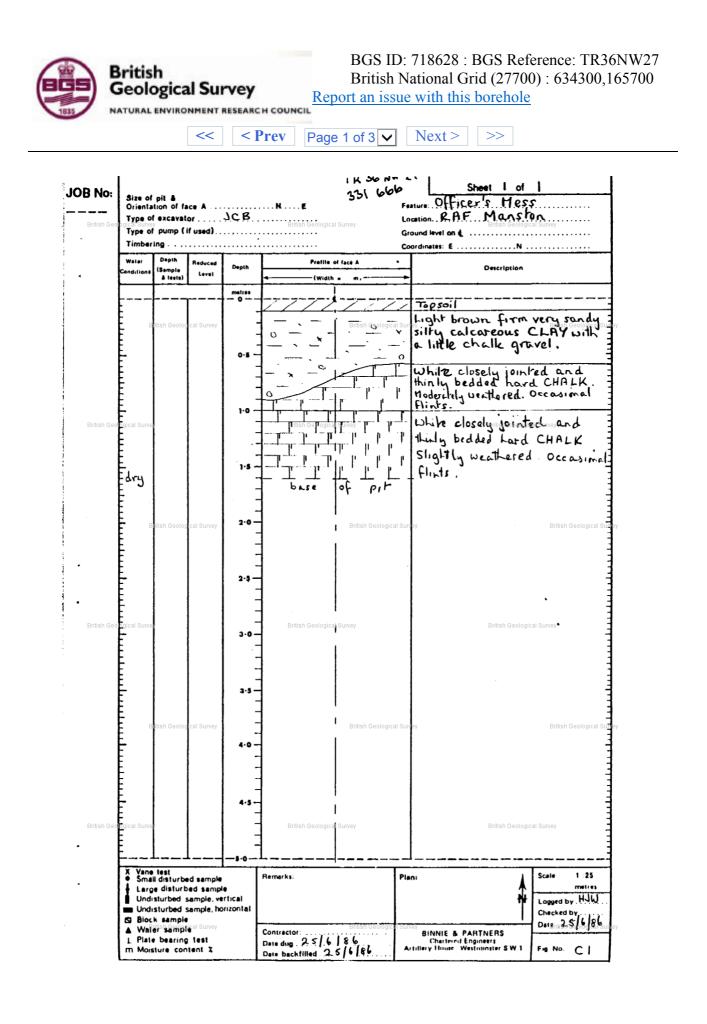
British Geological	BGS ID: 7186 British Nation Report an issue with	al G	rid (27700			
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	NATURE OF STRATA		Тніски		36 (DEPTH	23
For Institute use only British Geological GEOLOGICAL CLASSIFICATION	British Geolf measurements start below ground surface, state how far.	Feet	Inches	sh Metres	Feet	Inches	Metre
HEND	Sandy clay and stones.			.4.99			4.00
BRICHEMRIN	Soft silty clay			1.00			
	Stone.and.dark.brown.sand.			Q_ 5.0.			
British Geological S	Soft.chalk.with.some.flints.			10.50	Britist	Geologi	16.00
Utter	Soft.chalk.with.some.very.soft						
CHARK	seams, flints.			24.00			40.00
	Soft.chalk.			10.00			50,00
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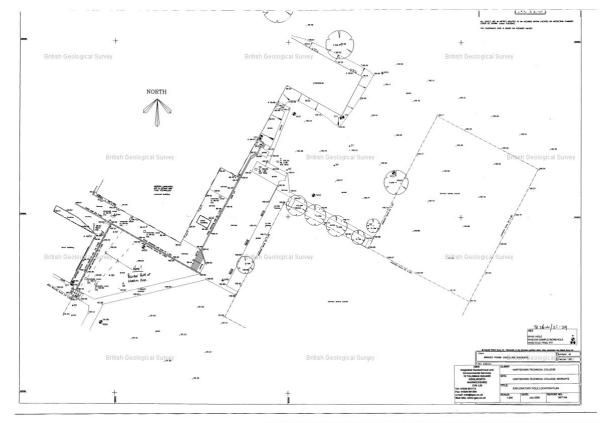
	British Geological Survey	BGS ID: 718625 : BGS Reference: TR36NW24 British National Grid (27700) : 634300,165700 Report an issue with this borehole
	< < Pre	Page 1 of 1 Next > >>
Britist	n Geologia Survey Dug by Tractor/backh	FGE/2657 FIGURE 2. British Geological Survey MANSTON RAF (Ash UKADGE RX) Trial Pit Logs oe 31 January 1986
2		TR 36 NW 24
	GL - 100mm 100 - 400	Turf and Topsoil. Brown, loose to medium dense, clayey silty fine SAND.
	400 - 900	Reddish-brown, medium dense, very clayey silty fine SAND. Grey-brown, medium dense, clayey, silty sandy slightly
British	h Geological Survey 1900	chalky, flint GRAVEL. White, very thinly bedded, very closely jointed CHALK. Moderately weak.
	2500	Base of pit.
		No ground water.
	<u>Trial Pit No 2</u> GL - 100mm Entish Geologica1007 - 400 400 - 1200 1200 - 2100 2100 2700	TR 36 NW 25 Turf and Topsoil. 343 657 Brown, loose to medium dense clayey silty fine SAND cal Survey Reddish-brown, medium dense, vcry claycy silty fine SAND. Light grey-brown, medium dense, clayey wilty sandy flint GRAVEL and some chalk. White, very thinly bedded and vry closely jointed CHALK. Moderately weak. Base of pit.
British	h Geological Survey •	Nonis ground suver British Geological Survey
·	<u>Trial Pit No 3</u> GL - 100mm 100 - 800 800 - 1400 1400 - 1900 British Geological Survey 1900 1900	TR36 NW26Turf and Topsoil.343 657Brown, loose, clayey silty fine SAND.Reddish-brown, loose to medium dense very clayey siltyfine SAND.Light grey-brown, medium dense, clayey silty sandyflint GRAVED Geological SurveyWhite, very thinly bedded and very closely jointedCHALK.Base of pit.
		No ground water.
Britist	Trial Pit No 4 GL - 100 mm 100 - 300 300 - 1000 1000 - 2000 2000	TR 36 NW 27 Bittish Geological Survey Turf and Topsoil. Brown, loose, clayey silty fine SAND. Reddish-brown medium dense, very clayey silty fine SAND. Grey-brown, medium dense, clayey, silty sandy flint GRAVEL with a trace of chalk. White, very thinly bedded, very closely jointed CHALK. Moderately weak. Base of pit.
	British Geological Survey	No ground water

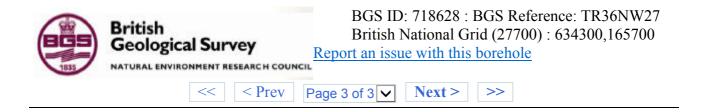
	British Geological Survey NATURAL ENVIRONMENT RESEARCH C	BGS ID: 718626 : BGS Reference: TR36NW25 British National Grid (27700) : 634300,165700 Report an issue with this borehole
	<< Pre	Page 1 of 3 Next >
Brits	sh Geological Survey Dug by Tractor/backh	British Geological-Survey MANSTON RAF (Ash UKADGE RX) Trial Pit Logs oe 31 January 1986
		TQ 2/
	Briterhabic PitterNo 1	British Geological Survey 343 657
	GL - 100mm 100 - 400 400 - 900	Turf and Topsoil. Brown, loose to medium dense, clayey silty fine SAND. Reddish-brown, medium dense, very clayey silty fine SAND.
	900 - 1900	Grey-brown, medium dense, clayey, silty sandy slightly chalky, flint GRAVEL.
Britis	sh Geological Survey 1900 : 2500	White, very thinly bedded, very closely jointed CHALK. British Geological Survey Moderately weak. Base of pit.
		No ground water.
	Trial Pit No 2	
	GL - 100mm British Geologica 100 - 400 400 - 1200 1200 - 2100 2100 2700	TR 36 NW 25 Turf and Topsoil. 343 657 Brown, loose to medium dense clayey silty fine SAND, and Survey Reddish-brown, medium dense, vcry claycy silty fine SAND. Light grey-brown, medium dense, clayey wilty sandy flint GRAVEL and some chalk. White, very thinly bedded and vry closely jointed CHALK. Moderately weak. Base of pit.
Britis	sh Geological Survey	No. ground water. British Geological Survey
	<u>Trial Pit No 3</u> GL - 100mm 100 - 800 800 - 1400 1400 - 1900 British Geological Survey 1900 1900	TR36 NW26Turf and Topsoil.343 657Brown, loose, clayey silty fine SAND.Reddish-brown, loose to medium dense very clayey siltyfine SAND.Light grey-brown, medium dense, clayey silty sandyflint GRAVED and slightly chalky.British Geological SurveyWhite, very thinly bedded and very closely jointedCHALK.Base of pit.
		No ground water.
Britis	sh Geological Survey	TR 36 NW 27 British Geological Survey Time and Tongood - 3 4 3 ^{British Ge} log ⁵⁵ mey
	GL - 100 mm 100 - 300 300 - 1000 1000 - 2000 2000	Turf and Topsoil. Brown, loose, clayey silty fine SAND. Reddish-brown medium dense, very clayey silty fine SAND. Grey-brown, medium dense, clayey, silty sandy flint GRAVEL with a trace of chalk. White, very thinly bedded, very closely jointed CHALK. Moderately weak. Base of pit.
	British Geological Survey	British Geological Survey British Geological Survey

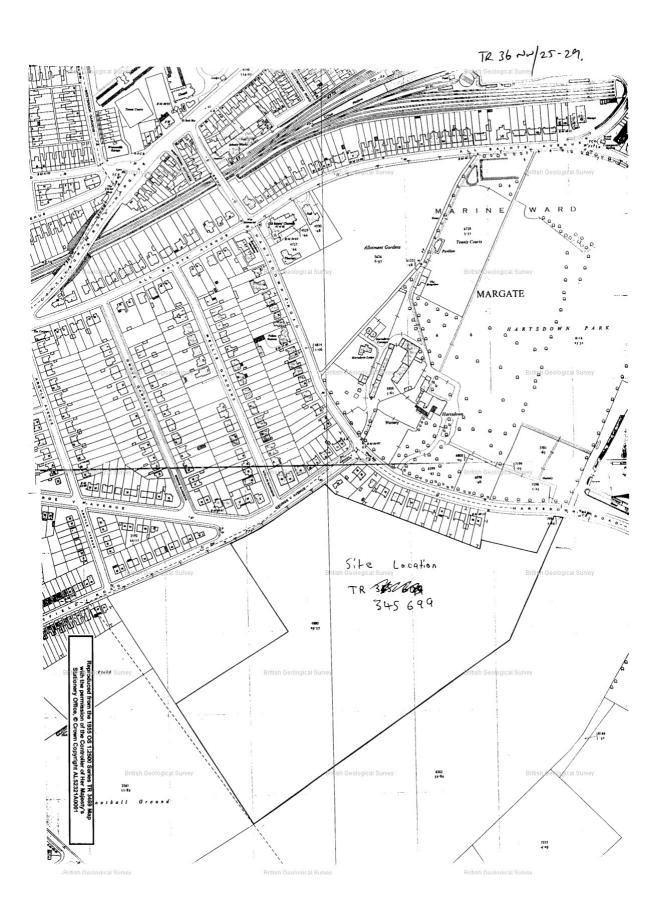
	British Geological Survey NATURAL ENVIRONMENT RESEARCH C	BGS ID: 718627 : BGS Reference: TR36NW26 British National Grid (27700) : 634300,165700 Report an issue with this borehole
	<< Pre	ev Page 1 of 3 Next > >>
Britis	sh Geologial Survey Dug by Tractor/backh	British Geological-Survey British Geological-Survey MANSTON RAF (Ash UKADGE RX) Trial Pit Logs Noe 31 January 1986
а. С		TR 36 NW 24
	BrittrialscPite/No 1	British Geological Survey 343 657
	GL - 100mm 100 - 400 400 - 900	Turf and Topsoil. Brown, loose to medium dense, clayey silty fine SAND. Reddish-brown, medium dense, very clayey silty fine SAND.
	900 - 1900	Grey-brown, medium dense, clayey, silty sandy slightly chalky, flint GRAVEL.
Britis	sh Geological Survey 1900 : 2500	White, very thinly bedded, very closely jointed CHALK. Moderately weak. Base of pit.
		No ground water.
	Trial Pit No 2	
	GL - 100mm British Geologica100 - 400 400 - 1200 1200 - 2100 2100 2700	TR 36 NW 25 Turf and Topsoil. 343 657 Brown, loose to medium dense clayey silty fine SAND. Light grey-brown, medium dense, vcry claycy silty fine SAND. Light grey-brown, medium dense, clayey wilty sandy flint GRAVEL and some chalk. White, very thinly bedded and vry closely jointed CHALK. Moderately weak. Base of pit.
Britis	sh Geological Survey •	No. ground
	<u>Trial Pit No 3</u> GL - 100mm 100 - 800 800 - 1400 1400 - 1900 British Geological Survey 1900 1900	TR36 NW26Turf and Topsoil.343 657Brown, loose, clayey silty fine SAND.Reddish-brown, loose to medium dense very clayey silty fine SAND.Light grey-brown, medium dense, clayey silty sandy flint GRAVED Generating that was a signally chalky.British Geological SurveyWhite, very thinly bedded and very closely jointed CHALK.Base of pit.
		No ground water.
Britis	th Geological Survey GL - 100 mm 100 - 300 300 - 1000 1000 - 2000 2000	TR 36 NW 27 Turf and Topsoil. 343 ^{British Geological Survey} Brown, loose, clayey silty fine SAND. Reddish-brown medium dense, very clayey silty fine SAND. Grey-brown, medium dense, clayey, silty sandy flint GRAVEL with a trace of chalk. White, very thinly bedded, very closely jointed CHALK. Moderately weak.
	2500 British Geological Survey	Base of pit. British Geological Survey No ground water



British Geological Survey	BGS ID: 718628 : BGS Reference: TR36NW27 British National Grid (27700) : 634300,165700 Report an issue with this borehole
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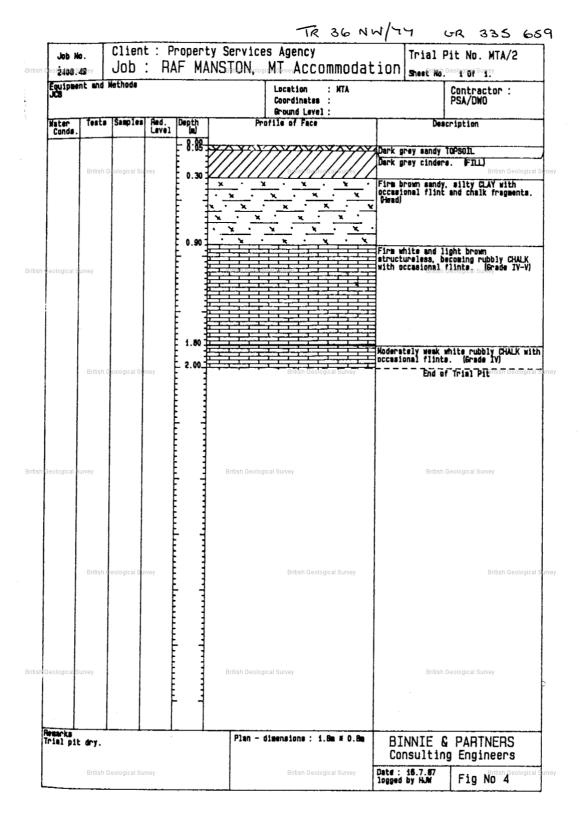




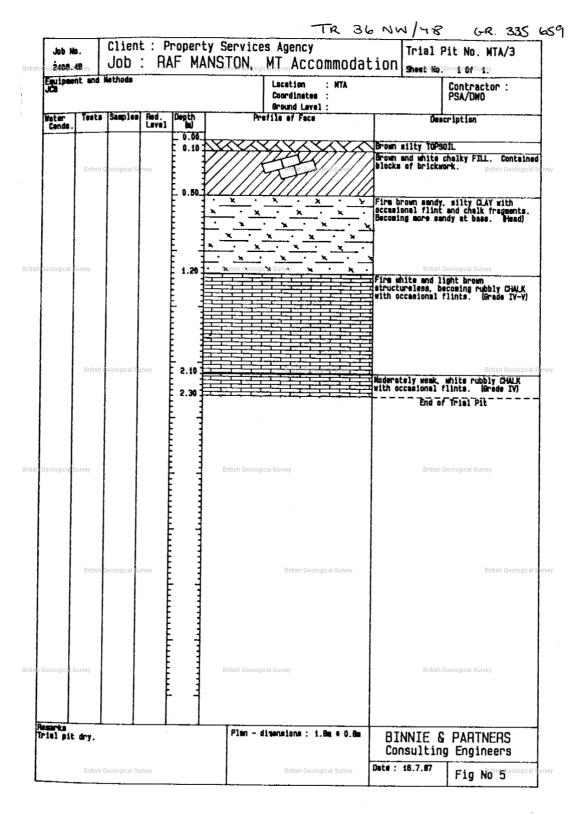
British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCI	BGS ID: 718677 : BGS Reference: TR36NW76 British National Grid (27700) : 633500,165900 Report an issue with this borehole
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British Ge	JOD N 2408.	. 1	Clien Job	t:P :R/	roper AF M/	ty Services Agency NSTON, MT Accommo	dation	Trial	Pit No. MTA/1
	Equipse JCB	nt and	Hethods			Location : NTA Coordinates :			Contractor : PSA/DWO
	Water Conds	Tests	Samples	Red. Level	Depth (m)	Ground Level : Profile of Face		Dea	cription
					- 8:89	<i> <i>\\``\``\`\`\`\`\`\`\`\</i></i>		rey sandy	
		British Ge	ological Surv	ey	C 0.20	British Georgical Survey	- Firm t	rey cinder rown silty lonal flint	sandy CLAY with or and chalk fragment
						<u> </u>	_ × (Piend) 		•
						$\begin{array}{c} \cdot & \cdot & \cdot & \cdot & \cdot & \cdot \\ \cdot & \times & \cdot & \times & \cdot & \cdot & \cdot \\ \cdot & \cdot & \cdot & \cdot & \cdot & \cdot & \cdot$	- *.		
British Ge	ological Su	rvey			1.10		- 1	hite mnd i	ight brown ecoming rubbly CHAL flints. (Grade IV-
							with a	ccasional	flints. (Grade IV-
					1.80		Modeca	tely werk	white public Public
		British Gé	ological Suiv	ev	2.10		OCCasi	onal flint	white rubbly CHALK 8. (Grade IV) British Geologi
		i and	ological out	<i>c</i> }				End o	f Trial Pit
British Ge	eological Sur	rvey				British Geological Survey		British G	eological Survey
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British Ge	eological Sur	rvey		Ę		British Geological Survey		British G	eological Survey
				F	· -			9	
A	esarks						_		
T	rial pit	ery.				Plan - dimensions : 2.0m # 0.5	DI	NNIE & NSUltin	PARTNERS g Engineers
		British Ge				British Geological Survey		16.7.87 by H.M	Fig Nö ^{sh} 3 ^{eologi}

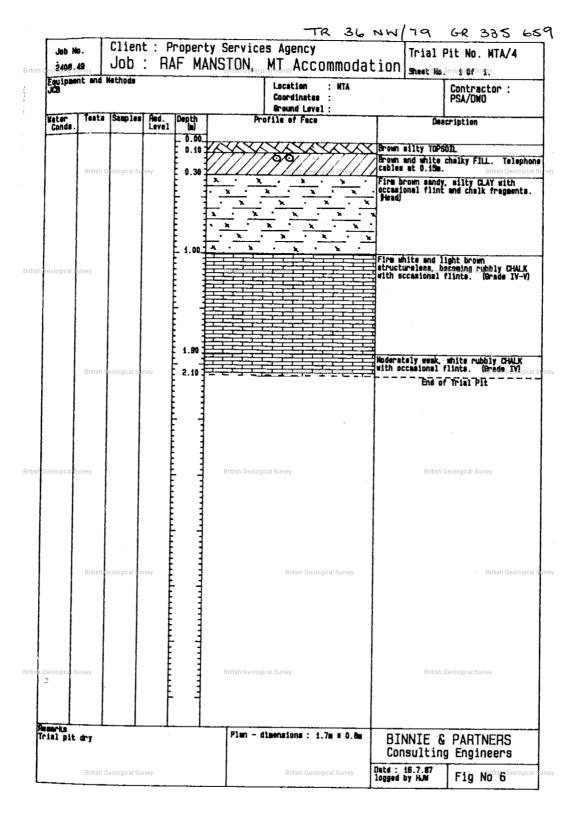
British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL	BGS ID: 718678 : BGS Reference: TR36NW77 British National Grid (27700) : 633500,165900 Report an issue with this borehole
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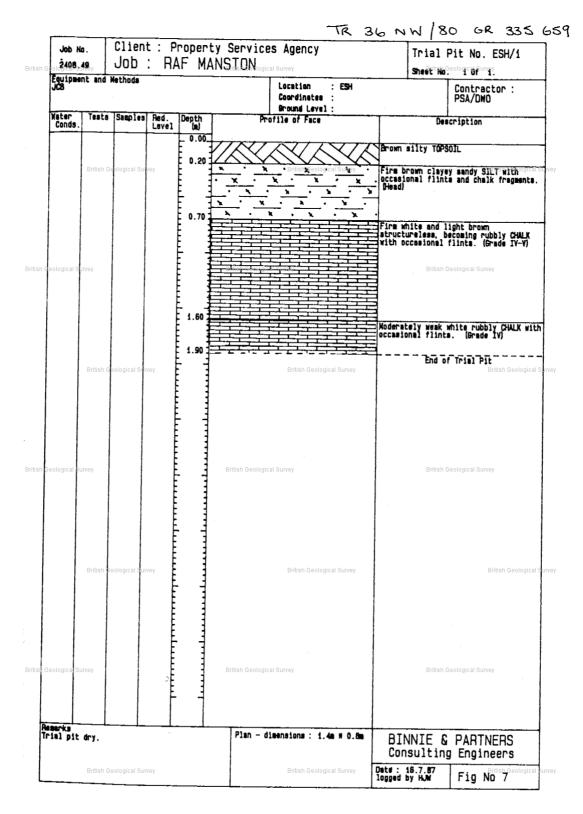
British Geological Survey	BGS ID: 718679 : BGS Reference: TR36NW78 British National Grid (27700) : 633500,165900 Report an issue with this borehole
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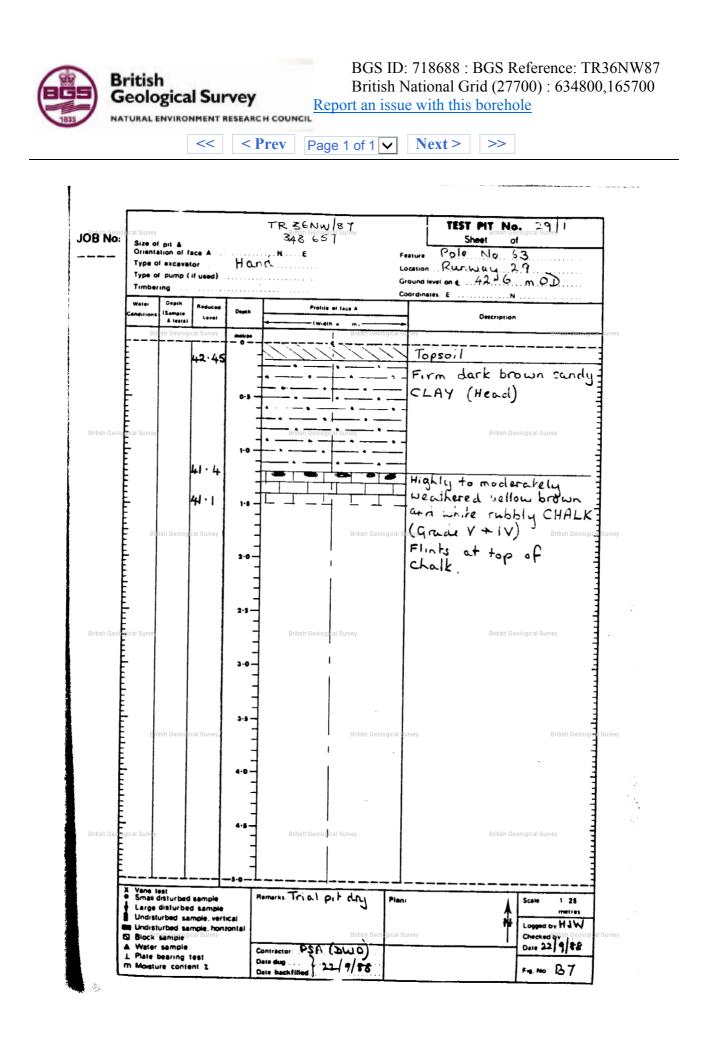


British Geological Survey	BGS ID: 718680 : BGS Reference: TR36NW79 British National Grid (27700) : 633500,165900 Report an issue with this borehole
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British Geological Survey	BGS ID: 718681 : BGS Reference: TR36NW80 British National Grid (27700) : 633500,165900 Report an issue with this borehole
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British Geo DB No:	ogical Survey Size of pit & Orientation of Type of excavi				TEST PIT No. 29/2 Sheet of of Surface source Poll No. 7.8 source R. W. W. 94 2.9	· · · ·
	Type of pump Timbering	(if used) .			raund level on e 41:5 ⁷ m OD	
	Water Depik Conditions (Sample & tests		Depth	Profile of face A	Description	
	eritish Ge	41.4			Topsoil Firm light brown very Sandy CLAY (Head)	
British Geo	agical Survey	40 4 40 · 3	1+0 - - - - 1+5 -	British Geotocical Survey	Highly weathered yellow brown rubbly CHALK (Grade V)	
	rritish Ge	ological Survey	2.0 - - - - 2.8 -	British Geologica	Survey British Geolog	al Survey
British Ge	ingical Suncy		- - 3.0- - - -	British Geological Survey	British Geological Survey	
	British Ge	ological Survey	3-6 - - - - 4-0 - -	British Geologica	Survey British Geolog	igal Survey
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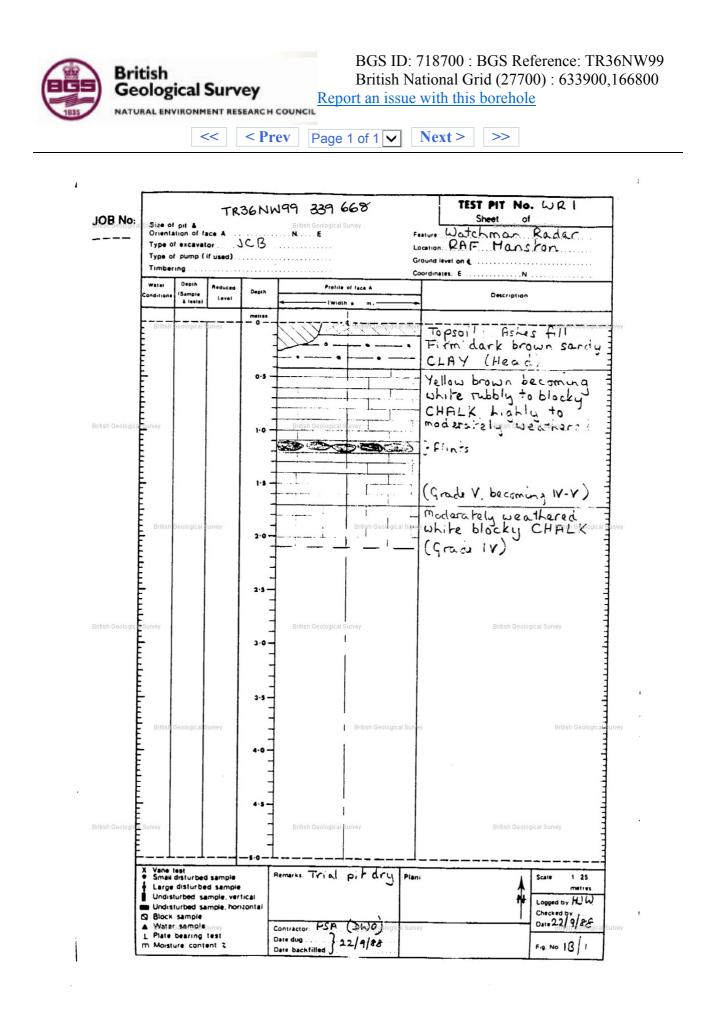
http://scans.bgs.ac.uk/sobi_scans/boreholes/718689/images/12583734.html

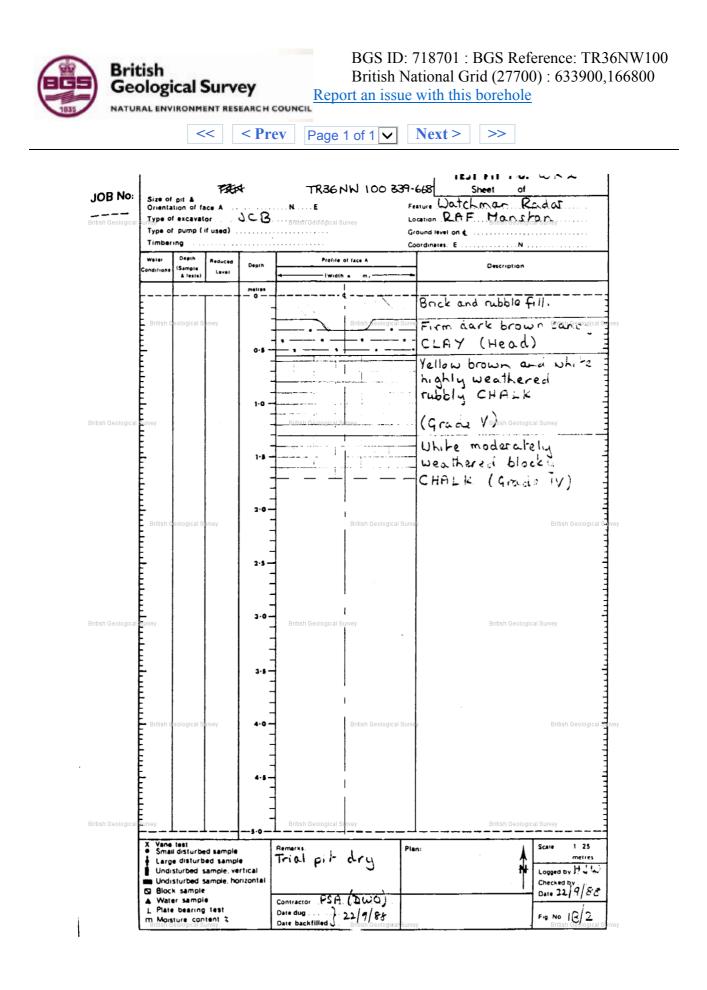
	British Geological Survey	BGS ID: 718690 : BGS Reference: TR36NW89 British National Grid (27700) : 634800,165700
1835	NATURAL ENVIRONMENT RESEARCH COUNCIL	Report an issue with this borehole
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British Ge No: 1	Туре о	pit & ition of fi excaval pump (lor if used)	· · · · · · · · · · · · · · · · · · ·		Swil g Grong Survey	Location Ground I	Pole N Run Wa evel on £ 36	0 85 24 29	logical Sun	· · · · · · · · · · · · · · · · · · ·	
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				1-8 -			ue an	athered a white irade V	yello	w bi cy C	ο MALK	يليث
		British Geo	bgical Surve	2.0-		British Geol	ogical (unity	rade V	/~1)		British Geolog	illal S
					4							
British Ge	wogical Sur	ey		2.8 -	British Geol	ogical Survey			British Geo	logical Sun	vey	
	uluut			3.0- -	-	1						
				3-5 -							-	
		British Geo	ogical Surve	-	-	British Geol	ogical Survey				British Geolog	in al S
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British Ge	elogical Sui	rey		4-8- -	British Geol	dgical Survey			British Geo	logical Sun	vey	
	X Vane				<u> </u>						<u> </u>	
	Small Large Under	disturbe disturb Nurbed s sturbed s	ed sample led sample lample, ver lample (10)	rtical rizontal	Romarks. Trial	Ĵ	Plan:		*	Charter		
	A Wate	bearing ture con	test		Contractor: PS A Date dug	(DWO)	ogical Survey			Date 2	2 9 8	g bal S

MAI	ANAL EI	TTRO	<<	_	rev Page 1 of 1	Next > >>
British Geologi DB No:	Size of p Orientation Type of Type of	on of fa excavat pump (or . if used) .	Har		TEST PIT Non-optical 2014 Sheet of Feature Pole Na 100 Location Run Way 29 Ground level on (37:5 m. OD)
	Water Materia	Depik Sample	Reduced	Depth	Profile of face A	Coordinates. EN
	Bhils	4 teers) In Geolog	Level Ical Survey	motras	(Width a m,	vergroup Stilleb.Gealingiesi-
			37.4	0.5 -		Firm dark brown sandy CLAY (Head)
British Geolo II	al Survey		36.35	- - 1·0		British Geological Survey
			36.2	- 1-5 -		Highly weathered yellow brown rubbly CHALK (Grade V)
	Brits	h Geolog	cal Survey		British Geologica	I Survey Brittsh Geologica St
British Geologi	al Survey			3·0	British Geological Survey	British Geological Survey
	B(tis	h Geolog	ical Survey		British Geologica	i Survey British Geologica(Su
British Geol git	al Surve			4.8	British Geologi ş al Survey	British Geological Survey
	Large	isturbe disturni irbea si	d sample ed sample ample, ver	tical	Romorks. Tri al pit dry P	Ien: Logged by If JW

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•									and the second secon
British Geolog JOB No:	Size of Orienta Type of	ition of f excave f pump (lor H		TR 36NW 348 657 		eature Pole	PITits No.stal heet of No. 106 Way 29 33.00 m C	<u>ъ</u>
	Water Conditions	Depin	Aeduced Level	Depth	Profile at	face A	Coordinates. E	Oescription	
		4 (ests)		- 0 -	(widin .	Rutish Geological S			British Geological Survey
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				0-5 -	• •	• • • • •	CLAY	(Head)	
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			31.85	1.0 -			Highly w brown r	ubbly CH	yellow = ALK
				1.5 -			(Goo de V		1
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British Geol	ical Survey			- - 4·8	British Geological	Survey		British Geological Su	rvey
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	 Smail Large 	disturbe	d sample Id sample Imple, vert		Remerks. Trial F	o. + dry Pie	nı	Scale	1 25 metres a by HJW





British Geological Survey	BGS ID: 718710 : BGS Reference: TR36NW109 British National Grid (27700) : 634600,165700 Report an issue with this borehole
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ist	Clier			Geological S	UN Survey		Coor Date:	dinates : s	slSurvey
	Job Nu Trial Locat:	Pit No.: TP A				isions : id Level :			
	Red. Level	Description	Depth m.	Samples Taken	In-Situ Tests	Legend		Diagram	
		Firm to stiff, brown, silty, sandy, gravelly, CLAY, friable, many roots at the top, sand and gravel - Chalk and Flints.	(0.60)		British C				British Geologic
tish	Geological	Stiff to firm, brown, silty, sandy, gravelly, CLAY as above but with no roots. Yane peak shear strength test results in kPa - 100, 102, 66 & 96. unney	0.60 (0.70)	Geological a	Survey			British Geologic:	al Survey
		Hedium dense locally loose. orange brown, fine to coarse, SAND, locally very clayey.	1.30						
	•***	British Geological Survey	(1.10)		British (şeological Şurvey	·		British Geologic
tish	Geological	White grade 5/6 CHALK, dry and brittle/friable, locally mixed sand a/a and chalk gravel.	2.40 British (0.50)	Geological	Survey			British Geologic:	al Survey
		End OF Trial Pit	2.90						
		British Geological Survey			British 2	Geological Survey			British Geologic
	Geological ey: anple Ty	Gumer N Water In- P Piston SPT	SPT Valu	Geologica (S: IE	Survey	The p	al Remark it was dr	y. The edge of a co	ncrete road.
U D 8	Undis Distu Bulk	turbed T Thin Wall pp rbed X No Recovery m/c Disturbed	CPT Valu Pocket F Moisture	Penetrome	ž	200m	r of the	as found in the s pit at a depth of O intated due east - w	outh eastern .6m. The road
J	quipment CB 3CX	and Methods:				Scal 4n/S	e : heet	Sheet No. 1 Of Depth 0 to	1. 4 metres.
		British Geological Survey			British (eological Surga	ieer :	Appendix : F	igure No. : British Geologic

http://scans.bgs.ac.uk/sobi_scans/boreholes/718710/images/12583759.html

British Geological Survey	BGS ID: 718711 : BGS Reference: TR36NW110 British National Grid (27700) : 634600,165700 Report an issue with this borehole
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British Geo	Con Clier	ract : it :	RX RE RAF MAN	CEIVE	R GoS	ĪAŢĪ	- 110 ON			ordinates : tes		Il Survey
	Locat:	Pit No.: T	\0733 P 8 E of Bush	Farm				sions d Leve]	 : :			
	Red. Level	-	iption		Depth m, 0.00	Sample: Taken	In-Situ Tests	Legend		Dia	gram	
		Stiff to fir: silty, sandy, line to weddi peak/reside kPa at appros 105/45, 80/30	A, brownish ∂ CLAY, with miChalk gran shear strer . 0.5m - 90/ & 94/30.		(1.10)		British Geolo				_	British Geological I
British Geo		White grade 6 prittle/friab the top prade 5 at ap plack flint co		and -	1.10	ogical Surv				British G	eologica	
British Geo	logical Su ve		Trial Pit		(1.50) (1.50) 2.60	logical Su v	British Geo			British G	eologica	British Geological t
	Ш	• •			*******		British Geolo	gical Survey				British Geological :
Key	ilogical Surve Pip Ie Type: Und isturb Bulk Dis	N P S: J Tobed T red ¥	Water Piston Jar Thin Wall No Recovery	In-Sit SPT SP CPT CP DP Poo	u Tests: T Value T Value Cket Per	logical Surv netromet Content		Gene	ral Remar pit was d	British G ks : ry. Digging d		il Survey
		id Methods:						Scal	e :	Sheet No.	1.0	1.
		ritish Geological Su					British Geolo	4m/9	neer : VIS	Appendix :	0 t	4 metres. Billich Geological: Figure No. :

British Geological Survey Natural environment research council	BGS ID: 718712 : BGS Reference: TR36NW111 British National Grid (27700) : 634600,165700 Report an issue with this borehole
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ritish	∘Cont Clier	anact : RX RECEIV	ER	FAT-Is	ON			Coordi Dates	nate		eologic 5/1/		
	Job Nu Trial Locati	Pit No.: TP C				nsions nd Leve		ŝ					
	Red. Level	Description	Depth 	Samples Taken	In-Situ Tests	Legend	T			Diagra	n		
		Firm, brown, silty, sandy, CLAY, with some chalk and flint gravel, many rootlets.	1 0 00 1		British G		u vey					British Ger	ologica
		White grade 5/6 CHALK, dry & Drittle/friable, locally grade 6 at the top.	0.45										
itisli	➡ Geological S	urvey	British 0	eological S	urvey					British G	eologic	al Survey	
-	£.	* British Geological Survey			British (uurvey .					British Gei	ologica
	9.05	End Of Trial Pit	2.00		5	<u> </u>							
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		British Geological Survey			British e	eological S	inrvey					British Ge	ologica
ritish	Geological s	survey	British 3	eologicalS	urvey					British G	eologic	al Survey	
SUDB	Bulk I	rbed I Inin Wall pp rbed X No Recovery m/c Disturbed	Situ Test SPT Valu CPT Valu Pocket P Moisture	enetrome	ter X		General The pit	Aemarks was dry.	:			<u> </u>	
Ē	quipment CB 3CX	and Methods:					Scale : 4m/Shee	t	Sheet Depth		1 Of 0 to	1. 4 metres.	
		British Geological Survey			British G	ieological	Enginee J. DAVIS	r :	Appen			Figure No. :	

.

British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNC	BGS ID: 718713 : BGS Reference: TR36NW112 British National Grid (27700) : 634600,165700 Report an issue with this borehole
<< < Prev	Page 1 of 1 V Next > >>

Joh	ntract : RX RECEIV Lent : RAF MANSTON Number : 6\0733	ALK SIAIJ	UN	Coordinates ^{ie elogical Survey} Dates : 25/1/91
Loc	al Pit No.: TP D ation : SE of Bush Farm		Dimensions : Ground Level :	
Red Leve		Depth Samples m. Taken	In-Situ Legend Tests	Diagram
sh Gellogical St	Firm, red brown, silty, very sandy, CLAY, with some fine to coarse. Chalkwand Flint gravel, many rootlets at the top. Vane peak/residual shear strengths in kPa at approx 0.5m - 55/15, 68/20 \$ 42/10 and at approx. 0.8m - 93/30, 60/20 \$ 60/20.	Bri Guida, 90) Joical Survey	sh Geolog (2010) 2010	British Geological Si British Geological Survey
ish Qeological St	British Geological Survey Mhite grade 5 CHALK, dry 6 brittle/friable.	1.90 (0.70] 9ritish Gological Su vey 2.50		British Geological St British Geological Survey
	British Geological Survey	Briti	ish G-ological Suney	British Geological S British Geological Survey
	ad put and put por	i Tests: Value Value Ket Penetrometer Sture Content %	General R The pit w	emarks : as dry.
JCX			Scale : 4m/Sheet	Sheet No. 1 Of 1. Depth 0 to 4 metres.

British Geological Survey	BGS ID: 718714 : BGS Reference: TR36NW113 British National Grid (27700) : 634360,166930 Report an issue with this borehole
 < < Prev F	Page 1 of 1 V Next > >>

LOC Proj	ation : RAF MANSTO ect : Monopulse SSR	N British Geologica	Survey		Trial P Dates	Pit No.: 1910 : 25/2	
Clien Repor	t : PSA Services t No. : G/0731			sions d Level	:	m above OD	
Red. Level	Description	Depth Samples #. Taken 1 0.00	In-Situ Tests	Legend		Remarks	
	Turf over dark brown very sandy CLAY with a few scattered pebbles. (Topsoil)	0.20	Britist	Ģeeļegical	Survey		British Geologica
	Fire brown sandy CLAY with a little fine to coarse sub rounded flint gravel becoming more gravelly with depth.	B 8535					
sh Geolog	al Survey	(0.80) British Geologica	Survey			British Geolo	
		1.00			Plate Loading 0.8m below GL.	Test (No Pi) car (Plate Dia. 24	ried out at }
		C 1 C (0.50) C 48_8536					
	British Geological Survey		Britist		Survey		British Geologica
	End Of Trial Pit				Plate Loading 1.5m below GL.	Test (No P2) car (Plate Dia. 24)	ried out at
h Geolog	c I Survey	Britisk Geologica	Survey			British Geolo	gical Survey
i.			1				
	British Geological Survey		Britist	i Geological	Survey		British Geologica
•							
0 0:	P Piston Si B Types: J Jar C Disturbed T Thin Wall k Isturbed I No Recovery of	n-Situ Tests: T SPT Value T CPT Value Plate Bearing A Pockat Penetri C Molsture Conte	meter		Tanto	s: sunk to carry ou tries noted	ut Plate Loading
Equip:	ment and Methods: Mechanical Digger fitted with a i.	Dm bucket.			Scale : 3m/Sheet	Sheet No. 1 Depth 0	Of 1. to 3 metres.
					Logged By : K McElmeel	Appendix :	Figure No. :



British Geological Survey	BGS ID: 718715 : BGS Reference: TR36NW114 British National Grid (27700) : 634360,166930 Report an issue with this borehole
	Page 1 of 1 V Next > >>

LOC Proj	ation : RAF MANSTO ect : Monopulse SSR	ЛГ	eological Sc	пvеу		Trial F Dates	Pit No.: TP : 27	2 /2/91	
Clien Repor	t : PSA Services t No. : G/0731				sions d Level	:	n above O	0	
Red.	Description		Samples Taken	In-Situ Tests	Legend		Remarks		
	Turf over dark brown very sandy CLAY with a few scattered pebbles. [Topsoil]	0.00		British Ge		/ey		Br	ritish Geolog
	Firm brown very sandy CLAY with a little fine to coarse sub rounded flint gravel.	(0.BO)							
ological (British G	ological Su	vey	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1		British Geolo	gical Survey	1
	Fire brown sandy very gravelly CLAY, gravel comprises fine to coarse sub rounded flint with occasional fragments of chalk.								
	British Geological Survey	[(0.80)		British Ge		ey		Br	ritish Geolog
: ological (Yellowish white heavily iron istained in places structureless remoulded CHALK with occasional lumps of intact chalk. (Grade V)	1.70 (0.50) British Ge	ogical St	intey			British Geolo	ogical Survey	v
	Creamy white rubbly lightly weathered CHALX with closely spaced bedding and jointing, some joints open and lightly iron	[(0.20)	- - 8 853' 	7!					
	stained. Iscade IV to III End of Trial Pit				1	Plate Loading 2.4m below GL	Plate Dia.	24")	out at
	Britlish Geological Survey	an e ca a ch	للتعييات	British Ge	ological Surv	éy		Br	ritish Geolog
Uogici)/ D Di	idisturbed T Thin Wall k Isturbed X No Aecovery p	n-Situ Ti PT SPT V PT CPT V BRiato p Pocke /c Moist	Searing t Penetr	ometer		General Remark 1. Log of pit Loading Test. 2. No water of	sunk to carry		
Equips	ment and Methods: Mechanical Olgger fitted with a i.	Om bucke	t.			Scale : 3m/Sheet	Sheet No. Depth	1 Of 1 0 to 3	1. 3 metres
						Logged By : K McElmeel	Appendix :	Fig	ure No.





Appendix 10.1 Appendix F Results Environmental Search

Date: 10/08/16 Our Ref: WK/201616961



Vanessa Dahmoun Amec Foster Wheeler Floor 4 60 London Wall London EC2M 5TQ

Dear Vanessa,

RE: Request for Information RE: Manston Airport, Manston Road, Ramsgate, Kent. CT12 5BL

Thank you for your letter and payment received by this department. Please find attached a receipt for your records. I refer to your request for information on contaminated land held by this Office. This department does not hold information on historic MOD remediation of the former Kent International Airport site.

Under Part IIA of the Environmental Protection Act 1990, Local Authorities have the responsibility to identify contaminated land and initiate enforcement / remedial measures where necessary. Officers are currently prioritising sites for further investigation using historical land use information, geological and hydrogeological information and current land use data.

I would emphasise that any information provided by Thanet District Council does not act as a guarantee against the Authority taking further action in respect of land contamination at the above, in the future. This Authority does not have a published Contaminated Land Register.

Having researched our records and additional data in the vicinity of your site using our in-house mapping database (see appendices attached), I am able to provide the following information in answer to your enquiry. To the best of our knowledge:

- 1. The above site overlies the former Kent International Airport which has former uses as an RAF base and commercial airport (with underground fuel storage facilities). Given the history of the site and on-site presence of USTs, there exists the potential for contamination of the ground from leaks or spills of fuel/oil/hydrocarbons/etc..., ACM's, UXO's from WWII activities and a variety of products used in the running and maintenance of commercial and military airfields and aircraft.
- The site also lies within 250m of various potentially contaminated features, including: Former Fuel Depot, Cemetery, Hospital, Laundry, Military Land, Petroleum Tanks, Quarry, Road Haulage, Filled Ground, Brick Works, Refuse Disposal and PFS. <u>Please note, due to the size of</u> the application site three separate spatial analysis reports have been compiled covering the full site perimeter.
- 3. Based on the information currently held regarding the contamination risk at the above, this department is not intending to take action under Part IIA of the EPA 1990. However, should further information come to light regarding potential contamination at the above in the future, this department would re-evaluate any potential risk to human health and the environment, including controlled waters at this time.

Environmental Health Morgan Sproates Environmental Protection Manager

Contact Officer: Morgan Sproates Direct Dial: 01843 577081 Thanet District Council PO Box 9 Cecil Street Margate Kent CT9 1XZ

01843 577000 www.thanet.gov.uk Given the former military/commercial/industrial uses of the application site and its location overlying Groundwater Source Protection Zones 1, 2 & 3, if redevelopment or a change of use is proposed, the developer would be required as a condition of Planning to investigate whether any land contamination exists and, if necessary, devise a strategy to deal with it.

- 4. Please find regulatory processes (Part B list) attached.
- 5. Please see Jacobs Phase 1 & 2 report submitted in connection with the 2009 KIA radar mast application F/TH/09/0637 at:

https://planning.thanet.gov.uk/onlineapplications/applicationDetails.do?activeTab=documents&keyVal=ZZZZMWQEBJ103

- 6. Please contact the Planning Department or visit: www.ukplanning.com
- 7. Please find attached.

If you wish to research this matter further, the following additional sources of information may be useful: Environment Agency website, old Ordnance Survey maps, trade directories and local archives and histories. Further information on potential petrol tanks of concern in the area can be obtained from the Petroleum Officer at Kent County Council, Trading Standards.

If you have any queries or require any further information please do not hesitate to contact me.

Yours Sincerely,



Morgan Sproates Environmental Protection Manager

> Environmental Health Morgan Sproates Environmental Protection Manager

> Contact Officer: Morgan Sproates Direct Dial: 01843 577081

Thanet District Council PO Box 9 Cecil Street Margate Kent CT9 1XZ

01843 577000 www.thanet.gov.uk

1-10/11	19-06/07	PPC010	16-06/07	23-06/07	18-06/07	21-06/07	24-06/07	Reference
Port Ramsgate	Manston Park Columbus Avenue Manston Ramsgate	424 Margate Road Ramsgate CT12 6SJ	71 Monkton Street Monkton Kent CT12 4JF	Pysons Road Broadstairs Kent. CT10 2LE	Patricia Way Pysons Road Broadstairs Kent CT10 2XZ	Manston Road Margate Kent CT9 4LX	Manston Road Margate, Kent	Site Address
TR379631	631391 166794	Mobile	628946 165041	637613 167231	637422 167275	635129 168924	635305 169225	Grid Ref
Bretts	Cummins	Groundworks Solutions	DDS	Fujifilm	Blaze Neon	Cemex	Thanet Crematorium	Operator
1.6.10	19.12.00	6.5.16	28.5.97	15.8.96	15.1.93	26.3.92	2.8.91	Date Applied
Section 3.1	Section 6.5	Section 3.4	Section 3.4	Section 6.5	Section 6.5	Section 3.1	Section 5.1	Reg Section Number
PG3/1	PG 6/23	PG3/16	PG 3/16	PG 6/11	PG 6/23	PG 3/1	PG 5/2	PGN Code
Cement & Lime	Process	Crushing	Concrete Crushing	Manutacture of Printing Ink	Process	Lime	Incinerator	Process Description

List of Installations

PB11a

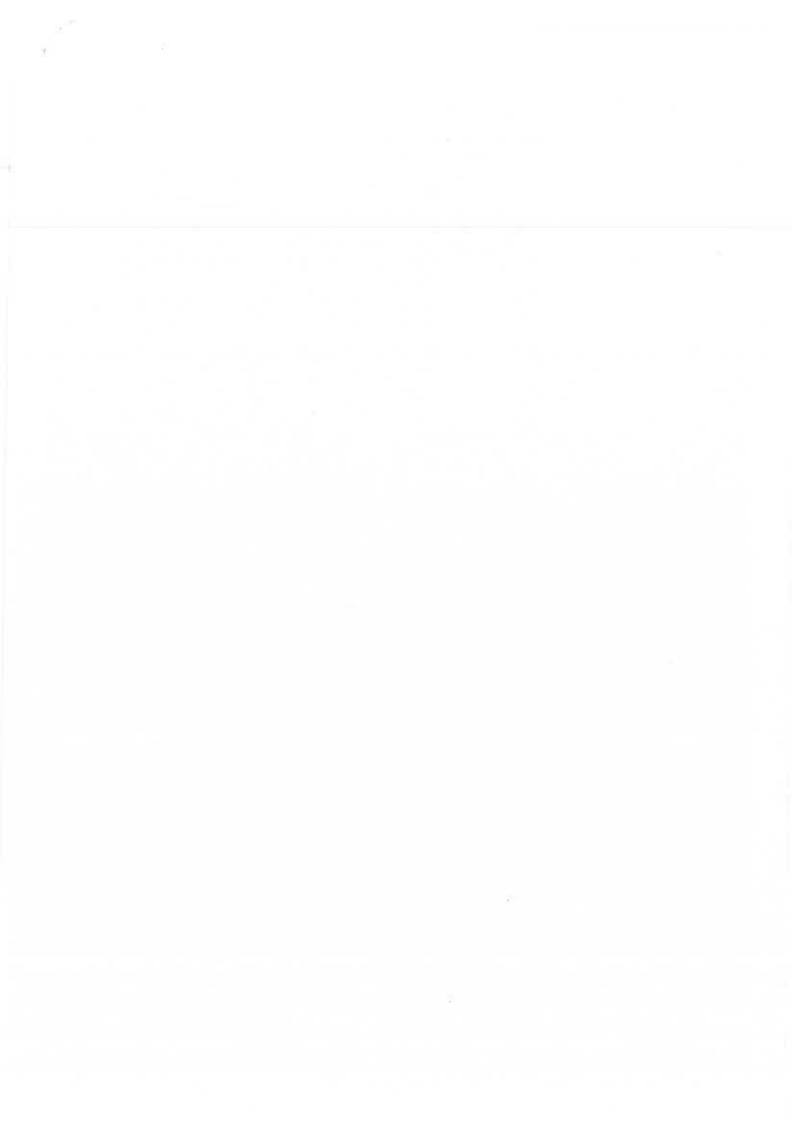
07-05/06	11-05/06	15-05/06	PC008[i1]	13-05/06	14-05/06	05-05/06	12-05/06	09-05/06	04-05/06
475 Margate Rd, Westwood Broadstairs	233 – 235 Canterbury Road, Garlinge Kent	Sandwich Road Cliffsend Ramsgate CT12 5JB	425 Margate Road Westwood Broadstairs, Kent	Broadway Garage Broadstairs Kent CT10 2AY	36-40 High Street St Lawrence Ramsgate Kent. CT11 0QW	361 Canterbury Road Birchington Kent CT7 9TZ	155 Hereson Road Ramsgate Kent CT11 7EL	Canterbury Road East Ramsgate Kent. CT11 OLB	292 Northdown Road Cliftonville, Margate Kent CT9 2PT
636587 167695	633420 169841	634538 163812	636506 167707	638979 168016	637051 165258	629763 168462	638777 165964	636026 165012	636800 170756
Tesco	BP	Pegwell	J Sainsbury PLC	J C Morrison	J C Morrison	Shell	Murco	Shell	Shell
14.9.01	20.3.00	12.1.00	10.7.14	16.2.99	16.2.99	31.12.98	10.12.98	11.11.98	19.5.97
Section 1.4	Section 1.4	Section 1.4	Section 1.4	Section 1.4	Section 1.4	Section 1.4	Section 1.4	Section 1.4	Section 1.4
PG1/14	PG 1/14	PG 1/14	PG 1/14	PG 1/14	PG 1/14	PG 1/14	PG 1/14	PG 1/14	PG 1/14
Vapour Recovery	Vapour Recovery	Vapour Recovery	Vapour Recovery	Vapour Recovery	Vapour Recovery	Vapour Recovery	Vapour Recovery	Vapour Recovery	Vapour Recovery

PB11a

		Section /	BO INC	Alibabas	639325 167913	138 High Street Broadstairs CT10 1JB	01-08/09
Dry Cleaners	פרוא הם	Cratics 7	-		170101	Broadstairs CTTU TJL	
	FG 0/40	Section /	70 Inf	Silvesters	639502	61 High Street	10-07/08
Dry Cleaners	2012 00	2		Cicarioro	104771	Ramsgate CTTT YER	0000
	FG 0/40	Section /	Jul 07	Paris Dry	638073	74 Queen Street	09-07/08
Dry Cleaners	21/2 00	-			103773	Birchington C1 / BIRChington	
	FG 0/40	Section /	701UL	Jons Dry Cleaners	630066	58 Station road	07-07/08
Inry Cleaners	DC GIAG	0.11-1			10.00	Ivial yale of a of w	
	FG 0/40	Section /	Jul 07	Fox Dry Cleaners	637238 170703	374 Northdown Road	06-07/08
Inry Cleaners	DC AIAA	0			- 000	Inalgate of a rec	
				Michaels	170901	Marnate CT9 1EG	05-07/08
	PG 0/40	Section /	Jul 07	Mark	635417	5 New Street	
					169991	Westgate CT8 8NR	04-07700
IDIY CIEdileis	PG 0/40	Section /	Jul 07	Clothescare	632296	4 Cuthbert Road	
Dry Cleanere					167106	Ramsgate CT12 6RR	03-07/08
	PG 0/40	Section /	Jul 07	K Laundry	637011	Northwood Road	
	1					Kent CT!2 4AU	
Necovery				Minster	165640	Minster	01-05/06

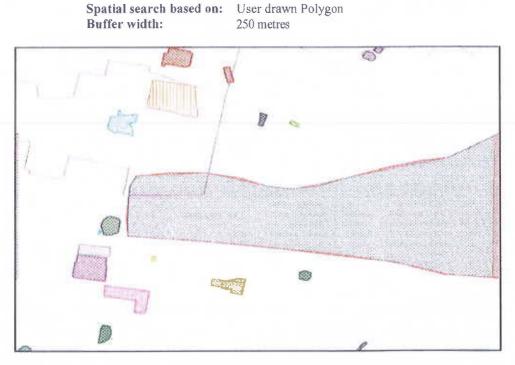
					The second secon		
	Manston Rd	636218	Tesco	16.06.03	16.06.03 Section 1.4	PG 1/14	Vapour Recoverv
01-05/06	Ramsgate	165608					
	Kent CT12 6NT					DC 1/1/	Vanour
	Tothill Street	631162	Co-Op	G0/7/62	29/7/05 Section 1.4		Recovery
01-05/06	6 Minster	165640	Minster				
	Kent CT!2 4AU						
		and the second sec					

PB11a



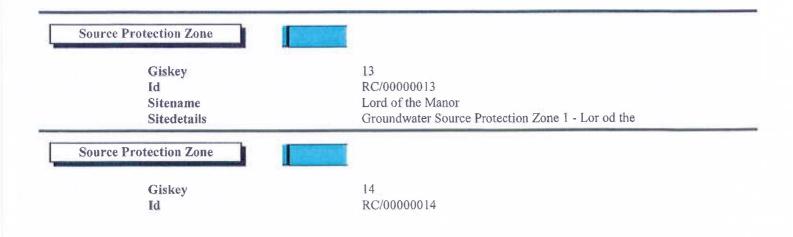
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Sitename Sitedetails	Lord of the Manor Groundwater Source Protection Zone 2 - Lord of the
Quarry	
Giskey Id Sitename Ownername Sitedetails Actnotes Classid Source_Path_Receptor Significant_Harm Registered Special_Status Sprnotes	17 CL/00000017 Initially Used as a Quarry. (1877,1898) Initially Used as a Quarry. (1877,1898) (s103100045 C009 No No No No No
Source Protection Zone	
Giskey Id Sitename Sitedetails	20 RC/0000020
Source Protection Zone	
Giskey Id Sitename Sitedetails	21 RC/0000021 Thanet SPZ
Quarry	
Giskey Id Sitename Ownername Sitedetails Actnotes Classid Source_Path_Receptor Significant_Harm Registered Special_Status Sprnotes	54 CL/00000054 Initially used as a Quarry and later filled with unknov Initially used as a Quarry and later filled with unknov C009 No No No No
Hospital	
Giskey Id Sitename Ownername Sitedetails Actnotes Classid Source_Path_Receptor Significant_Harm Registered Special_Status Sprnotes	102 CL/0000102 Fever Hospital (1898) Fever Hospital (1898) (s168100007308) C006 No No No No

	102
Giskey	193
Id	CL/00000193
Sitename	Minster Laundry (Tanks) (1908, 1938, 1961)
Ownername Sitedetails	Minster Laundry (Tanks) (1908,1938,1961) (s16710
Actnotes	Willister Laundry (Talks) (1906,1996,1991) (310/10
Classid	C016
Source_Path_Receptor	No
Significant_Harm	No
Registered	No
Special_Status	No
Sprnotes	
Road Haulage	
Giskey	262
Id	CL/00000262
Sitename	Road Haulage
Ownername	<u> </u>
Sitedetails	Road Haulage (1976) (\$155100019252)
Actnotes	
Classid	C039
Source_Path_Receptor	No
Significant_Harm	No
Registered Special_Status	No No
Sprnotes	140
Cemetery	
Giskey	263 CL/00000263
ld Sitename	CE/00000203 Cemetary
Ownername	Centerary
Sitedetails	Cemetary (1908,1938,1961,1976) (s168100007303)
Actnotes	
Classid	C010
Source_Path_Receptor	No
Significant_Harm	No
Registered	No
Special_Status Sprnotes	No
Vehicle Repair	
Giskey	264
Id	CL/00000264
Sitename	Motor Vehicle - Repair, Maintenance
Ownername	
Sitedetails	Motor Vehicle - Repair, Maintenance (1976) (\$1191)
Actnotes	
Classid	C040
Source_Path_Receptor	No
Significant_Harm	No
Registered	No
Special_Status	No
Sprnotes	

Giskey	385
Id	CL/00000385
Sitename	Great West Autos Ltd
Ownername	
Sitedetails	Former Highway Depot. TS Ref PET482. 1 Tank. Fi
Actnotes	
Classid	C041
Source_Path_Receptor	No
Significant_Harm	No
Registered	No
Special_Status	No
Sprnotes	
Petrol Tank License (Expired)	
Giskey	389
Id	CL/0000389
Sitename	Cleve Court Farm
Ownername	
Sitedetails	L.S. Sayer & Son. TS Ref. E115. 1 x 500g. Installed
Actnotes	
Classid	C041
Source_Path_Receptor	No
Significant_Harm	No
Registered	No
Special_Status	No
Sprnotes	
Petroleum Tank (Not PFS)	
Giskey	482
Id	
	CL/00000482
Sitename	
Sitename Ownername	CL/00000482 Wilson & Wilson Ltd
Sitename Ownername Sitedetails	CL/00000482
Sitename Ownername Sitedetails Actnotes	CL/00000482 Wilson & Wilson Ltd 1 x 1000g. installed 1951. Removed from site to Ric
Sitename Ownername Sitedetails Actnotes Classid	CL/00000482 Wilson & Wilson Ltd 1 x 1000g. installed 1951. Removed from site to Ric C051
Sitename Ownername Sitedetails Actnotes Classid Source_Path_Receptor	CL/00000482 Wilson & Wilson Ltd 1 x 1000g. installed 1951. Removed from site to Ric C051 No
Sitename Ownername Sitedetails Actnotes Classid Source_Path_Receptor Significant_Harm	CL/00000482 Wilson & Wilson Ltd 1 x 1000g. installed 1951. Removed from site to Ric C051 No No
Sitename Ownername Sitedetails Actnotes Classid Source_Path_Receptor Significant_Harm Registered	CL/00000482 Wilson & Wilson Ltd 1 x 1000g. installed 1951. Removed from site to Ric C051 No No No
Sitename Ownername Sitedetails Actnotes Classid Source_Path_Receptor Significant_Harm	CL/00000482 Wilson & Wilson Ltd 1 x 1000g. installed 1951. Removed from site to Ric C051 No No
Sitename Ownername Sitedetails Actnotes Classid Source_Path_Receptor Significant_Harm Registered Special_Status	CL/00000482 Wilson & Wilson Ltd 1 x 1000g. installed 1951. Removed from site to Ric C051 No No No
Sitename Ownername Sitedetails Actnotes Classid Source_Path_Receptor Significant_Harm Registered Special_Status Sprnotes	CL/00000482 Wilson & Wilson Ltd 1 x 1000g. installed 1951. Removed from site to Ric C051 No No No No
Sitename Ownername Sitedetails Actnotes Classid Source_Path_Receptor Significant_Harm Registered Special_Status Sprnotes Military Use	CL/00000482 Wilson & Wilson Ltd 1 x 1000g. installed 1951. Removed from site to Ric C051 No No No No S74
Sitename Ownername Sitedetails Actnotes Classid Source_Path_Receptor Significant_Harm Registered Special_Status Sprnotes Military Use	CL/00000482 Wilson & Wilson Ltd 1 x 1000g. installed 1951. Removed from site to Ric C051 No No No No S74 CL/00000574
Sitename Ownername Sitedetails Actnotes Classid Source_Path_Receptor Significant_Harm Registered Special_Status Sprnotes Military Use	CL/00000482 Wilson & Wilson Ltd 1 x 1000g. installed 1951. Removed from site to Ric C051 No No No No S74 CL/00000574 Manston Airport
Sitename Ownername Sitedetails Actnotes Classid Source_Path_Receptor Significant_Harm Registered Special_Status Sprnotes Military Use Giskey Id Sitename Ownername	CL/00000482 Wilson & Wilson Ltd 1 x 1000g. installed 1951. Removed from site to Ric C051 No No No No No S74 CL/00000574 Manston Airport Alistair Robertson
Sitename Ownername Sitedetails Actnotes Classid Source_Path_Receptor Significant_Harm Registered Special_Status Sprnotes Military Use	CL/00000482 Wilson & Wilson Ltd 1 x 1000g. installed 1951. Removed from site to Ric C051 No No No No S74 CL/00000574 Manston Airport
Sitename Ownername Sitedetails Actnotes Classid Source_Path_Receptor Significant_Harm Registered Special_Status Sprnotes Military Use Giskey Id Sitename Ownername Sitedetails Actnotes	CL/00000482 Wilson & Wilson Ltd 1 x 1000g. installed 1951. Removed from site to Ric. C051 No No No No S74 CL/00000574 Manston Airport Alistair Robertson Former RAF Base. Currently Commercial Airport.
Sitename Ownername Sitedetails Actnotes Classid Source_Path_Receptor Significant_Harm Registered Special_Status Sprnotes Military Use Giskey Id Sitename Ownername Sitedetails Actnotes Classid	CL/00000482 Wilson & Wilson Ltd 1 x 1000g. installed 1951. Removed from site to Ric C051 No No No No No S74 CL/00000574 Manston Airport Alistair Robertson Former RAF Base. Currently Commercial Airport. C001
Sitename Ownername Sitedetails Actnotes Classid Source_Path_Receptor Significant_Harm Registered Special_Status Sprnotes Military Use Giskey Id Sitename Ownername Sitedetails Actnotes Classid Source_Path_Receptor	CL/00000482 Wilson & Wilson Ltd 1 x 1000g. installed 1951. Removed from site to Ric. C051 No No No No No S74 CL/00000574 Manston Airport Alistair Robertson Former RAF Base. Currently Commercial Airport. C001 No
Sitename Ownername Sitedetails Actnotes Classid Source_Path_Receptor Significant_Harm Registered Special_Status Sprnotes Military Use Giskey Id Sitename Ownername Sitedetails Actnotes Classid Source_Path_Receptor Significant_Harm	CL/00000482 Wilson & Wilson Ltd 1 x 1000g. installed 1951. Removed from site to Ric C051 No No No No S74 CL/00000574 Manston Airport Alistair Robertson Former RAF Base. Currently Commercial Airport. C001 No No
Sitename Ownername Sitedetails Actnotes Classid Source_Path_Receptor Significant_Harm Registered Special_Status Sprnotes Military Use Giskey Id Sitename Ownername Sitedetails Actnotes Classid Source_Path_Receptor Significant_Harm Registered	CL/00000482 Wilson & Wilson Ltd 1 x 1000g. installed 1951. Removed from site to Ric C051 No No No No S74 CL/00000574 Manston Airport Alistair Robertson Former RAF Base. Currently Commercial Airport. C001 No No No No No
Sitename Ownername Sitedetails Actnotes Classid Source_Path_Receptor Significant_Harm Registered Special_Status Sprnotes Military Use Giskey Id Sitename Ownername Sitedetails Actnotes Classid Source_Path_Receptor Significant_Harm	CL/00000482 Wilson & Wilson Ltd 1 x 1000g. installed 1951. Removed from site to Ric C051 No No No No S74 CL/00000574 Manston Airport Alistair Robertson Former RAF Base. Currently Commercial Airport. C001 No No
Sitename Ownername Sitedetails Actnotes Classid Source_Path_Receptor Significant_Harm Registered Special_Status Sprnotes Military Use Giskey Id Sitename Ownername Sitedetails Actnotes Classid Source_Path_Receptor Significant_Harm Registered Special_Status	CL/00000482 Wilson & Wilson Ltd 1 x 1000g. installed 1951. Removed from site to Ric C051 No No No No S74 CL/00000574 Manston Airport Alistair Robertson Former RAF Base. Currently Commercial Airport. C001 No No No No No
Sitename Ownername Sitedetails Actnotes Classid Source_Path_Receptor Significant_Harm Registered Special_Status Sprnotes Military Use Giskey Id Sitename Ownername Sitedetails Actnotes Classid Source_Path_Receptor Significant_Harm Registered Special_Status Sprnotes	CL/00000482 Wilson & Wilson Ltd 1 x 1000g. installed 1951. Removed from site to Ric C051 No No No No S74 CL/00000574 Manston Airport Alistair Robertson Former RAF Base. Currently Commercial Airport. C001 No No No No No
Sitename Ownername Sitedetails Actnotes Classid Source_Path_Receptor Significant_Harm Registered Special_Status Sprnotes Military Use Giskey Id Sitename Ownername Sitedetails Actnotes Classid Source_Path_Receptor Significant_Harm Registered Special_Status Sprnotes Bulk Fuel Storage	CL/00000482 Wilson & Wilson Ltd 1 x 1000g. installed 1951. Removed from site to Ric. C051 No No No No S74 CL/00000574 Manston Airport Alistair Robertson Former RAF Base. Currently Commercial Airport. C001 No No No No No No
Sitename Ownername Sitedetails Actnotes Classid Source_Path_Receptor Significant_Harm Registered Special_Status Sprnotes Military Use Giskey Id Sitename Ownername Sitedetails Actnotes Classid Source_Path_Receptor Significant_Harm Registered Special_Status Sprnotes	CL/00000482 Wilson & Wilson Ltd 1 x 1000g. installed 1951. Removed from site to Ric C051 No No No No S74 CL/00000574 Manston Airport Alistair Robertson Former RAF Base. Currently Commercial Airport. C001 No No No No No

Ownername		
Sitedetails		
Actnotes		
Classid	C053	
Source_Path_Receptor	No	
Significant_Harm	No	
Registered	No	
Special Status	No	
Sprnotes		

Road Haulage

I

Giskey
Id
Sitename
Ownername
Sitedetails
Actnotes
Classid
Source_Path_Receptor
Significant_Harm
Registered
Special_Status
Sprnotes

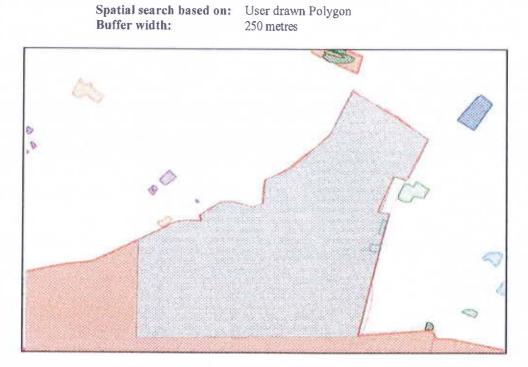
ł

689 CL/00000689 Manston Express Transport I File - 01843822822

C039 No No No

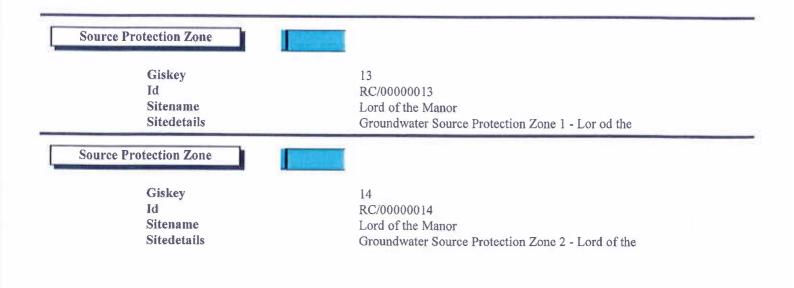
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18 November 2015



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	ource Protection Zone	
	Giskey	21
	Id	RC/0000021
	Sitename	Thanet SPZ
_	Sitedetails	
The local division of	Filled Ground	
	Giskey	131
	Id	CL/00000131
	Sitename	RAF
	Ownername	
	Sitedetails	Unknown Filled Ground (1938) (s561100027662)
	Actnotes Classid	2011
		C011
	Source_Path_Receptor	No
	Significant_Harm Registered	No No
	Special_Status	No
	Sprnotes	110
	Filled Ground	
	Giskey	132
	Id	CL/00000132
	Sitename	RAF
	Ownername	
	Sitedetails	Unknown Filled Ground (1938) (s561100027663)
	Actnotes	
	Classid	COIL
	Source_Path_Receptor	No
	Significant_Harm	No
	Registered	No
	Special_Status	No
	Sprnotes	
		 XXXX
	Sprnotes Quarry	133
[Sprnotes	133 CL/00000133
	Sprnotes Quarry Giskey Id	CL/00000133
[Sprnotes Quarry Giskey	
[Sprnotes Quarry Giskey Id Sitename Ownername Sitedetails	CL/00000133
	Sprnotes Quarry Giskey Id Sitename Ownername Sitedetails Actnotes	CL/00000133 The Dump Quarrying of Sand & Clay (1938) (s103100048566)
	Sprnotes Quarry Giskey Id Sitename Ownername Sitedetails Actnotes Classid	CL/00000133 The Dump Quarrying of Sand & Clay (1938) (s103100048566) C009
	Sprnotes Quarry Giskey Id Sitename Ownername Sitedetails Actnotes Classid Source_Path_Receptor	CL/00000133 The Dump Quarrying of Sand & Clay (1938) (s103100048566) C009 No
	Sprnotes Quarry Giskey Id Sitename Ownername Sitedetails Actnotes Classid Source_Path_Receptor Significant_Harm	CL/00000133 The Dump Quarrying of Sand & Clay (1938) (s103100048566) C009 No No
	Sprnotes Quarry Giskey Id Sitename Ownername Sitedetails Actnotes Classid Source_Path_Receptor Significant_Harm Registered	CL/00000133 The Dump Quarrying of Sand & Clay (1938) (\$103100048566) C009 No No No
	Sprnotes Quarry Giskey Id Sitename Ownername Sitedetails Actnotes Classid Source_Path_Receptor Significant_Harm	CL/00000133 The Dump Quarrying of Sand & Clay (1938) (s103100048566) C009 No No
	Quarry Giskey Id Sitename Ownername Sitedetails Actnotes Classid Source_Path_Receptor Significant_Harm Registered Special_Status	CL/00000133 The Dump Quarrying of Sand & Clay (1938) (\$103100048566) C009 No No No
	Quarry Giskey Id Sitename Ownername Sitedetails Actnotes Classid Source_Path_Receptor Significant_Harm Registered Special_Status Sprnotes	CL/00000133 The Dump Quarrying of Sand & Clay (1938) (s103100048566) C009 No No No No No
	Quarry Giskey Id Sitename Ownername Sitedetails Actnotes Classid Source_Path_Receptor Significant_Harm Registered Special_Status Sprnotes Quarry Giskey	CL/00000133 The Dump Quarrying of Sand & Clay (1938) (s103100048566) C009 No No No No No No No
	Quarry Quarry Giskey Id Sitename Ownername Sitedetails Actnotes Classid Source_Path_Receptor Significant_Harm Registered Special_Status Sprnotes Quarry Giskey Id	CL/00000133 The Dump Quarrying of Sand & Clay (1938) (s103100048566) C009 No No No No No No No No No
	Quarry Giskey Id Sitename Ownername Sitedetails Actnotes Classid Source_Path_Receptor Significant_Harm Registered Special_Status Sprnotes Quarry Giskey	CL/00000133 The Dump Quarrying of Sand & Clay (1938) (s103100048566) C009 No No No No No No No
	Quarry Giskey Id Sitename Ownername Sitedetails Actnotes Classid Source_Path_Receptor Significant_Harm Registered Special_Status Sprnotes Quarry Giskey Id Sitename	CL/00000133 The Dump Quarrying of Sand & Clay (1938) (s103100048566) C009 No No No No No No No No No
	Sprnotes Quarry Giskey Id Sitename Ownername Sitedetails Actnotes Classid Source_Path_Receptor Significant_Harm Registered Special_Status Sprnotes Quarry Giskey Id Sitename Ownername Sitedetails Actnotes	CL/0000133 The Dump Quarrying of Sand & Clay (1938) (s103100048566) C009 No No No No No 2009 No No 2009 No No No 2009 No No No No No No No No No No No No No
	Sprnotes Quarry Giskey Id Sitename Ownername Sitedetails Actnotes Classid Source_Path_Receptor Significant_Harm Registered Special_Status Sprnotes Quarry Giskey Id Sitename Ownername Sitename Ownername Sitedetails	CL/00000133 The Dump Quarrying of Sand & Clay (1938) (s103100048566) C009 No No No No No No No No No No

	Significant_Harm Registered	No No	
	Special_Status Sprnotes	No	
	Filled Ground		
	Giskey	191	
	Id	CL/00000191	
	Sitename	Unknown Filled Ground (1908)	
	Ownername Sitedetails Actnotes	Unknown Filled Ground (1908) (\$561100027660)	
	Classid	C011	
	Source Path Receptor	No	
	Significant_Harm	No	
	Registered	No	
	Special_Status	No	
	Sprnotes		_
	Filled Ground		
	Giskey	192	
	Id	CL/00000192	
	Sitename	Unknown Filled Ground (1908)	
	Ownername		
	Sitedetails	Unknown Filled Ground (1908) (s561100027661)	
	Actnotes Classid	C011	
	Source_Path_Receptor	No	
	Source_rath_Receptor	NO	
	Significant Horm	No	
	Significant_Harm Registered	No	
	Registered	No	
	Registered Special_Status	No	
	Registered Special_Status Sprnotes Brick Works Giskey	No	
	Registered Special_Status Sprnotes Brick Works Giskey Id	No No 194 CL/00000194	
	Registered Special_Status Sprnotes Brick Works Giskey Id Sitename	No No 194	
	Registered Special_Status Sprnotes Brick Works Giskey Id Sitename Ownername	No No 194 CL/00000194 Brick Works	
	Registered Special_Status Sprnotes Brick Works Giskey Id Sitename Ownername Sitedetails	No No 194 CL/00000194	
	Registered Special_Status Sprnotes Brick Works Giskey Id Sitename Ownername Sitedetails Actnotes	No No 194 CL/00000194 Brick Works Brick Works (1908) (s143100007219)	
	Registered Special_Status Sprnotes Brick Works Giskey Id Sitename Ownername Sitedetails Actnotes Classid	No No 194 CL/00000194 Brick Works Brick Works (1908) (s143100007219) C030	
	Registered Special_Status Sprnotes Brick Works Giskey Id Sitename Ownername Sitedetails Actnotes Classid Source_Path_Receptor	No No 194 CL/00000194 Brick Works Brick Works (1908) (s143100007219) C030 No	
	Registered Special_Status Sprnotes Brick Works Giskey Id Sitename Ownername Sitedetails Actnotes Classid Source_Path_Receptor Significant_Harm	No No 194 CL/00000194 Brick Works Brick Works (1908) (s143100007219) C030 No No	
	Registered Special_Status Sprnotes Brick Works Giskey Id Sitename Ownername Sitedetails Actnotes Classid Source_Path_Receptor Significant_Harm Registered	No No 194 CL/00000194 Brick Works Brick Works (1908) (s143100007219) C030 No No No No	
	Registered Special_Status Sprnotes Brick Works Giskey Id Sitename Ownername Sitedetails Actnotes Classid Source_Path_Receptor Significant_Harm	No No 194 CL/00000194 Brick Works Brick Works (1908) (s143100007219) C030 No No	
Petr	Registered Special_Status Sprnotes Brick Works Giskey Id Sitename Ownername Sitedetails Actnotes Classid Source_Path_Receptor Significant_Harm Registered Special_Status	No No 194 CL/00000194 Brick Works Brick Works (1908) (s143100007219) C030 No No No No No No	
Petr	Registered Special_Status Sprnotes Brick Works Giskey Id Sitename Ownername Sitedetails Actnotes Classid Source_Path_Receptor Significant_Harm Registered Special_Status Sprnotes	No No 194 CL/00000194 Brick Works Brick Works (1908) (s143100007219) C030 No No No No No No	
Petr	Registered Special_Status Sprnotes Brick Works Giskey Id Sitename Ownername Sitedetails Actnotes Classid Source_Path_Receptor Significant_Harm Registered Special_Status Sprnotes ol Tank License (Expired) Giskey Id	No No No 194 CL/00000194 Brick Works Brick Works (1908) (s143100007219) C030 No	
Petr	Registered Special_Status Sprnotes Brick Works Giskey Id Sitename Ownername Sitedetails Actnotes Classid Source_Path_Receptor Significant_Harm Registered Special_Status Sprnotes ol Tank License (Expired) Giskey Id Sitename	No No 194 CL/00000194 Brick Works Brick Works (1908) (s143100007219) C030 No No	
Petr	Registered Special_Status Sprnotes Brick Works Giskey Id Sitename Ownername Sitedetails Actnotes Classid Source_Path_Receptor Significant_Harm Registered Special_Status Sprnotes OI Tank License (Expired) Giskey Id Sitename Ownername	No 194 CL/00000194 Brick Works Brick Works (1908) (s143100007219) C030 No No No No No Sof CL/00000306 Manston Court Garage	
Petr	Registered Special_Status Sprnotes Brick Works Giskey Id Sitename Ownername Sitedetails Actnotes Classid Source_Path_Receptor Significant_Harm Registered Special_Status Sprnotes ol Tank License (Expired) Giskey Id Sitename Ownername Sitedetails	No No No 194 CL/00000194 Brick Works Brick Works (1908) (s143100007219) C030 No S06 CL/000000306	
Petr	Registered Special_Status Sprnotes Brick Works Giskey Id Sitename Ownername Sitedetails Actnotes Classid Source_Path_Receptor Significant_Harm Registered Special_Status Sprnotes ol Tank License (Expired) Giskey Id Sitename Ownername Sitedetails Actnotes	No 194 CL/00000194 Brick Works Brick Works (1908) (s143100007219) C030 No Manston Court Garage, Manston ()	
Petr	Registered Special_Status Sprnotes Brick Works Giskey Id Sitename Ownername Sitedetails Actnotes Classid Source_Path_Receptor Significant_Harm Registered Special_Status Sprnotes ol Tank License (Expired) Giskey Id Sitename Ownername Sitedetails Actnotes Classid	No No No 194 CL/00000194 Brick Works Brick Works (1908) (s143100007219) C030 No No No No No No No No No No No No No	
Petr	Registered Special_Status Sprnotes Brick Works Giskey Id Sitename Ownername Sitedetails Actnotes Classid Source_Path_Receptor Significant_Harm Registered Special_Status Sprnotes ol Tank License (Expired) Giskey Id Sitename Ownername Sitedetails Actnotes Classid Source_Path_Receptor	No No No No Dick Works Brick Works (1908) (s143100007219) C030 No No No No No No No No No No No No No	
Petr	Registered Special_Status Sprnotes Brick Works Giskey Id Sitename Ownername Sitedetails Actnotes Classid Source_Path_Receptor Significant_Harm Registered Special_Status Sprnotes ol Tank License (Expired) Giskey Id Sitename Ownername Sitedetails Actnotes Classid	No No No 194 CL/00000194 Brick Works Brick Works (1908) (s143100007219) C030 No No No No No No No No No No No No No	

Military Use

.....

Giskey	
Id	
Sitename	
Ownername	
Sitedetails	
Actnotes	
Classid	
Source_Path_Receptor	
Significant_Harm	
Registered	
Special_Status	
Sprnotes	

335 CL/00000335 The Dump See Information provided in support TH/02/0897 and C001 No No

Petrol Tank License (Expired)

No No

Giskey	375
Id	CL/00000375
Sitename	London Manston Airport
Ownername	
Sitedetails	Converted to Jet Fuel. TS ref 1076. 2 x 27276 Litres
Actnotes	
Classid	C041
Source_Path_Receptor	No
Significant_Harm	No
Registered	No
Special_Status	No
Sprnotes	

Petrol Tank (Safe or Removed)

1111113.

Giskey	471
Id	CL/0000471
Sitename	Manston Court Farm
Ownername	
Sitedetails	TS Ref:PET1774. 3x500g, 1 tank installed in 1939,
Actnotes	
Classid	C052
Source_Path_Receptor	No
Significant Harm	No
Registered	No
Special_Status	No
Sprnotes	

Military Use

10000

Giskey Id Sitename **Ownername** Sitedetails Actnotes Classid Source_Path_Receptor Significant_Harm Registered Special_Status Sprnotes

574

No

CL/00000574 Manston Airport Alistair Robertson Former RAF Base. Currently Commercial Airport. C001 No No No

Bulk Fuel Storage	
Giskey	591
Id	CL/00000591
Sitename	Former Fuel Depot
Ownername	
Sitedetails	
Actnotes	
Classid	C053
Source_Path_Receptor	No
Significant_Harm	No
Registered	No
Special_Status	No
Sprnotes	

Refuse Disposal

Giskey Id Sitename Ownername Sitedetails Actnotes Classid Source_Path_Receptor Significant_Harm Registered Special_Status Sprnotes 649 CL/00000649 Thanet Waste Management L J Ray - 01843821500 Waste Disposal Services

C029

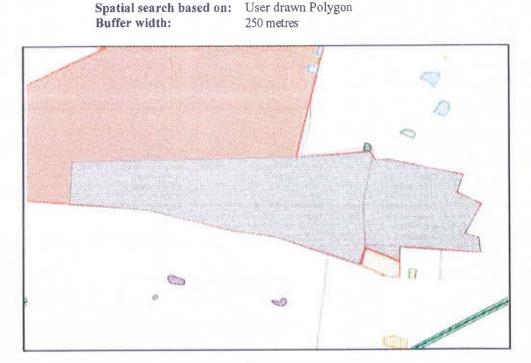
No No

No

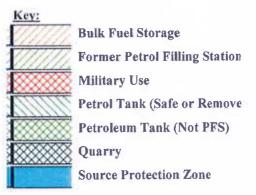
No

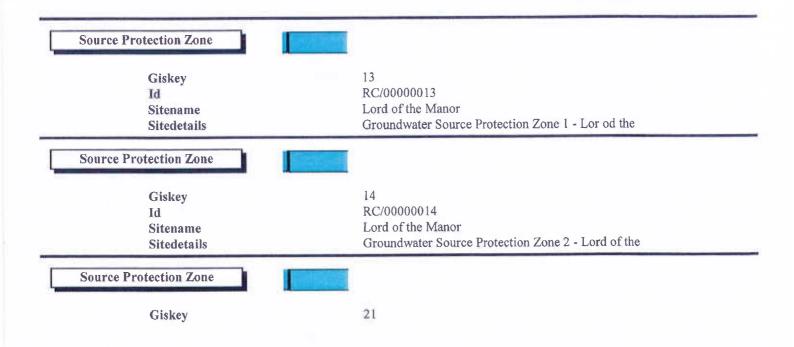
MVM Contaminated Land - Spatial Analysis

18 November 2015



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Id Sitename Sitedetails	RC/0000021 Thanet SPZ
Quarry	***
Giskey Id Sitename Ownername Sitedetails Actnotes Classid Source_Path_Receptor Significant_Harm Registered Special_Status Sprnotes	144 CL/00000144 Quarrying (1938) Quarrying (1938) (s103100046537) C009 No No No No No
Petrol Tank (Safe or Removed) Giskey Id Sitename Ownername Sitedetails Actnotes Classid	377 CL/00000377 Chapel Farm TS Ref PET 105 TH448. 1137 litres. Cement Slurry C052
Source_Path_Receptor Significant_Harm Registered Special_Status Sprnotes	No No No
Petroleum Tank (Not PFS)	
Giskey Id Sitename Ownername Sitedetails Actnotes Classid Source_Path_Receptor Significant_Harm Registered Special_Status Sprnotes	470 CL/00000470 Kilnwood Homes Ltd 1x500g. Slurry filled in 1997. Verified. Unknown lo C051 No No No No
Bulk Fuel Storage	
Giskey Id Sitename Ownername Sitedetails Actnotes Classid Source_Path_Receptor Significant_Harm Registered Special_Status Sprnotes	568 CL/00000568 Jentex Petroleum Currently and Historically used for fuel storage. C053 No No No No

Military Use	
Giskey	574
Id	CL/0000574
Sitename	Manston Airport
Ownername	Alistair Robertson
Sitedetails	Former RAF Base. Currently Commercial Airport.
Actnotes	
Classid	C001
Source_Path_Receptor	No
Significant_Harm	No
Registered	No
Special_Status	No
Sprnotes	
Former Petrol Filling Station	7777
Giskey	589
Id	CL/00000589
Sitename	Manna Hutte Garage
Ownername	
Sitedetails	
Actnotes	
Classid	C049
Source_Path_Receptor	No
Significant_Harm	No
Registered	No
Special_Status	No
Sprnotes	
Bulk Fuel Storage	
Cicler	652
Giskey Id	CL/00000652
Sitename Ownername	Anthony Jenkins Fuel Oil Ltd A N Jenkins - 01843596431
Sitedetails	Fuel Oil Wholesalers
Actnotes	
Classid	C053
	No
Source_Path_Receptor Significant_Harm	No
	No
Registered	No
Special_Status	
Sprnotes	

