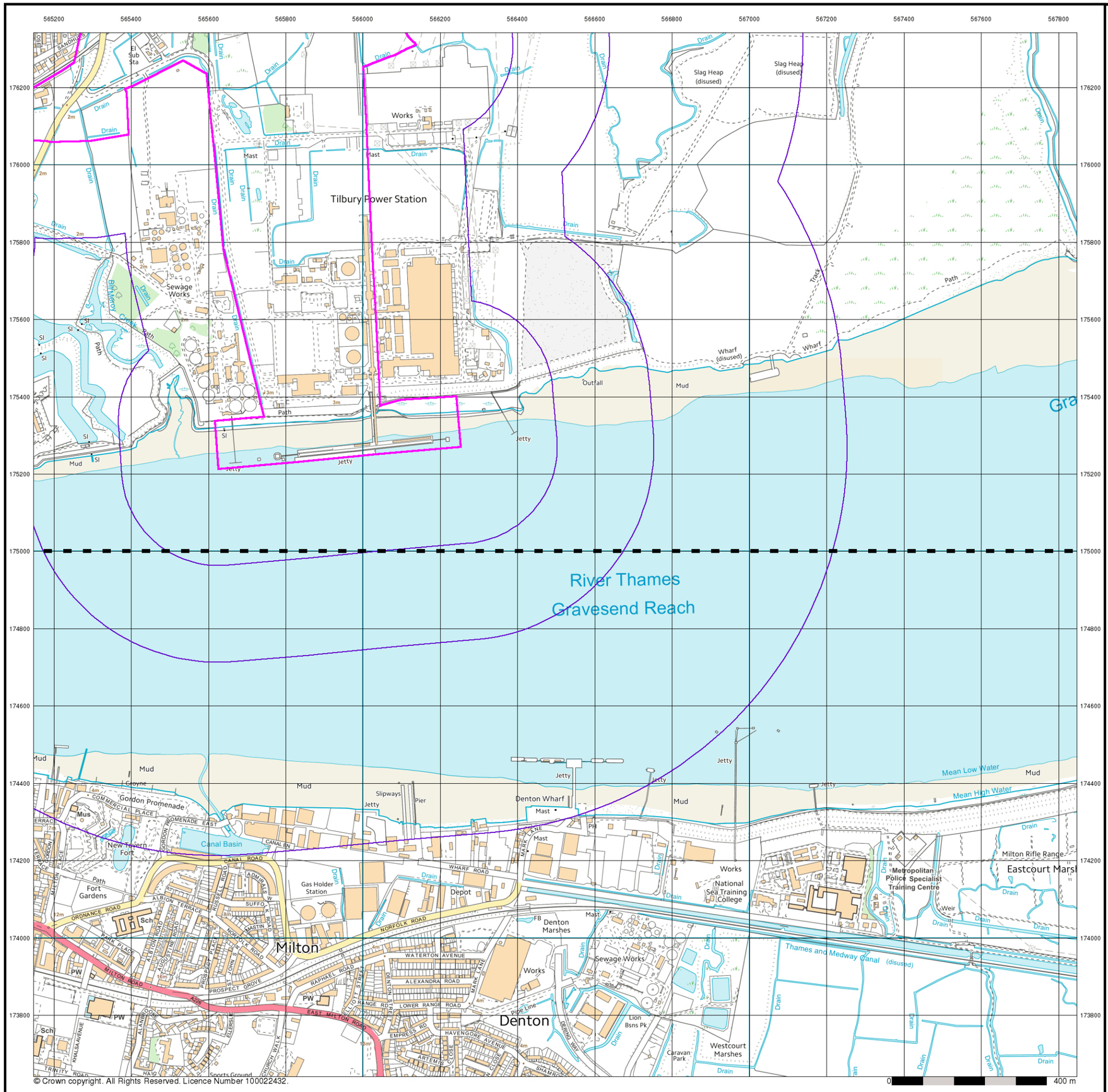

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VectorMap Local

Published 2016

Source map scale - 1:10,000

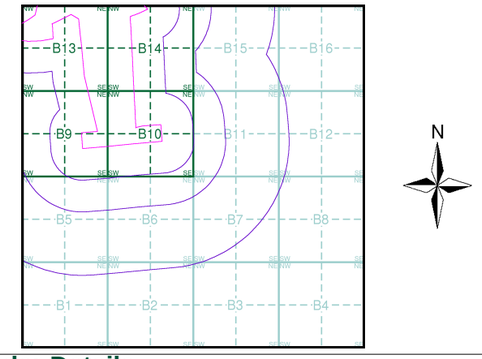
VectorMap Local (Raster) is Ordnance Survey's highest detailed 'backdrop' mapping product. These maps are produced from OS's VectorMap Local, a simple vector dataset at a nominal scale of 1:10,000, covering the whole of Great Britain, that has been designed for creating graphical mapping. OS VectorMap Local is derived from large-scale information surveyed at 1:1250 scale (covering major towns and cities),1:2500 scale (smaller towns, villages and developed rural areas), and 1:10 000 scale (mountain, moorland and river estuary areas).

Map Name(s) and Date(s)

TQ67NE 2016 Variable

TQ67SE 2016 Variable

Historical Map - Slice B



Order Details

Order Number:	107251247_1_1
Customer Ref:	5153187- 211 Tilbury Power Station
National Grid Reference:	566130, 175330
Slice:	B
Site Area (Ha):	81.8
Search Buffer (m):	1000

Site Details

Gravesend

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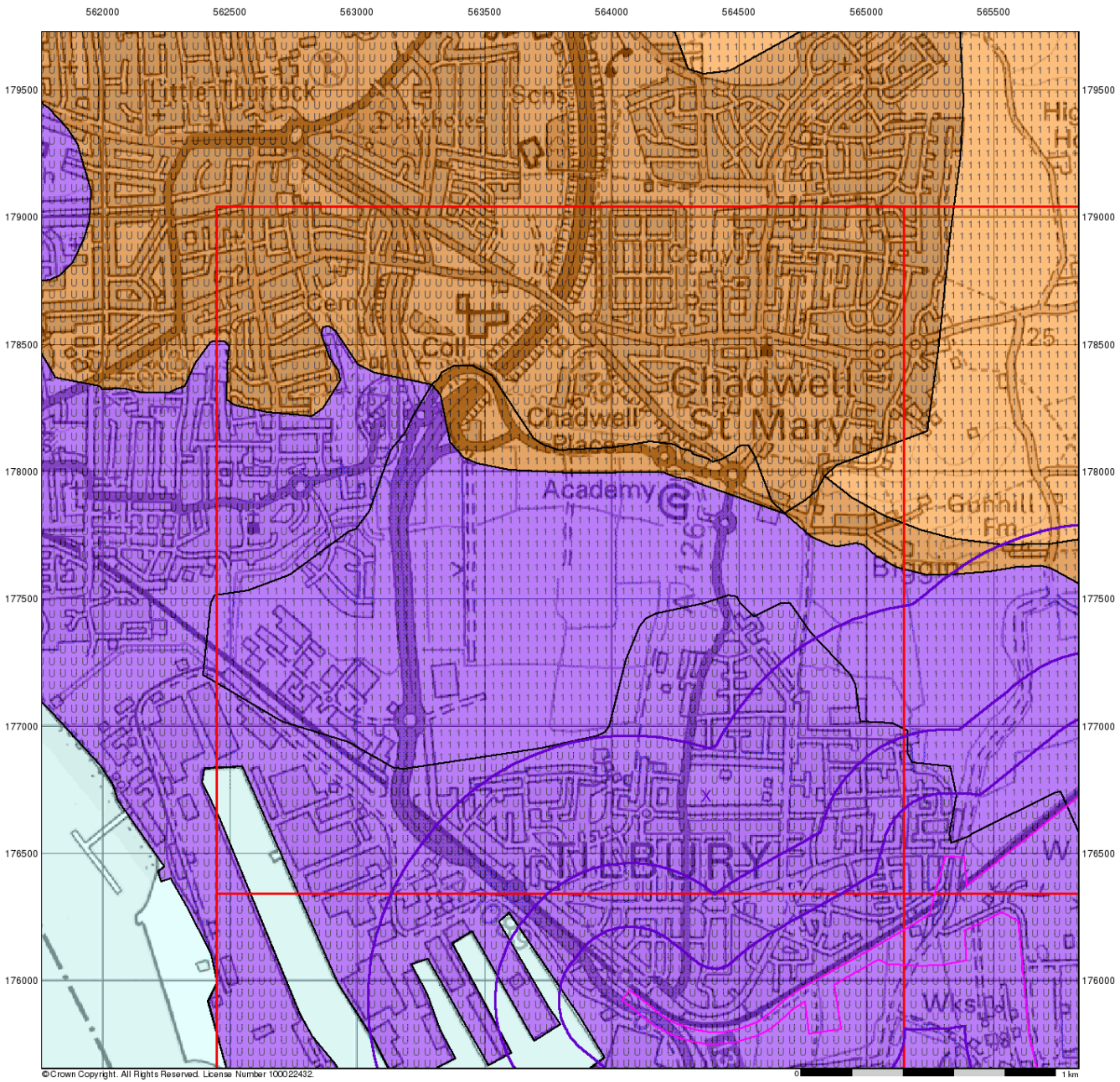

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Groundwater Vulnerability

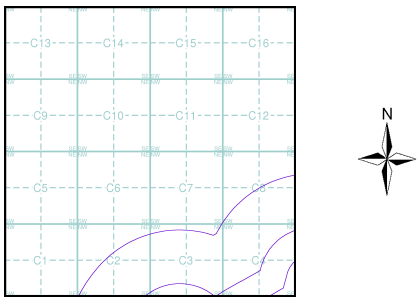
General

Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

Agency and Hydrological

Geological Classes	Soil Classes
Major Aquifer (Highly Permeable)	High (H) 1, 2, 3, U
	Intermediate (I) 1, 2
	Low
Minor Aquifer (Variably Permeable)	High (H) 1, 2, 3, U
	Intermediate (I) 1, 2
	Low
Non Aquifer (Negligibly Permeable)	
Water or Sea	
Drift Deposit	

Site Sensitivity Context Map - Slice C



Order Details

Order Number:	107251247_1_1
Customer Ref:	5153187- 211 Tilbury Power Station
National Grid Reference:	564370, 176730
Slice:	C
Site Area (Ha):	81.8
Search Buffer (m):	1000

Site Details

Gravesend

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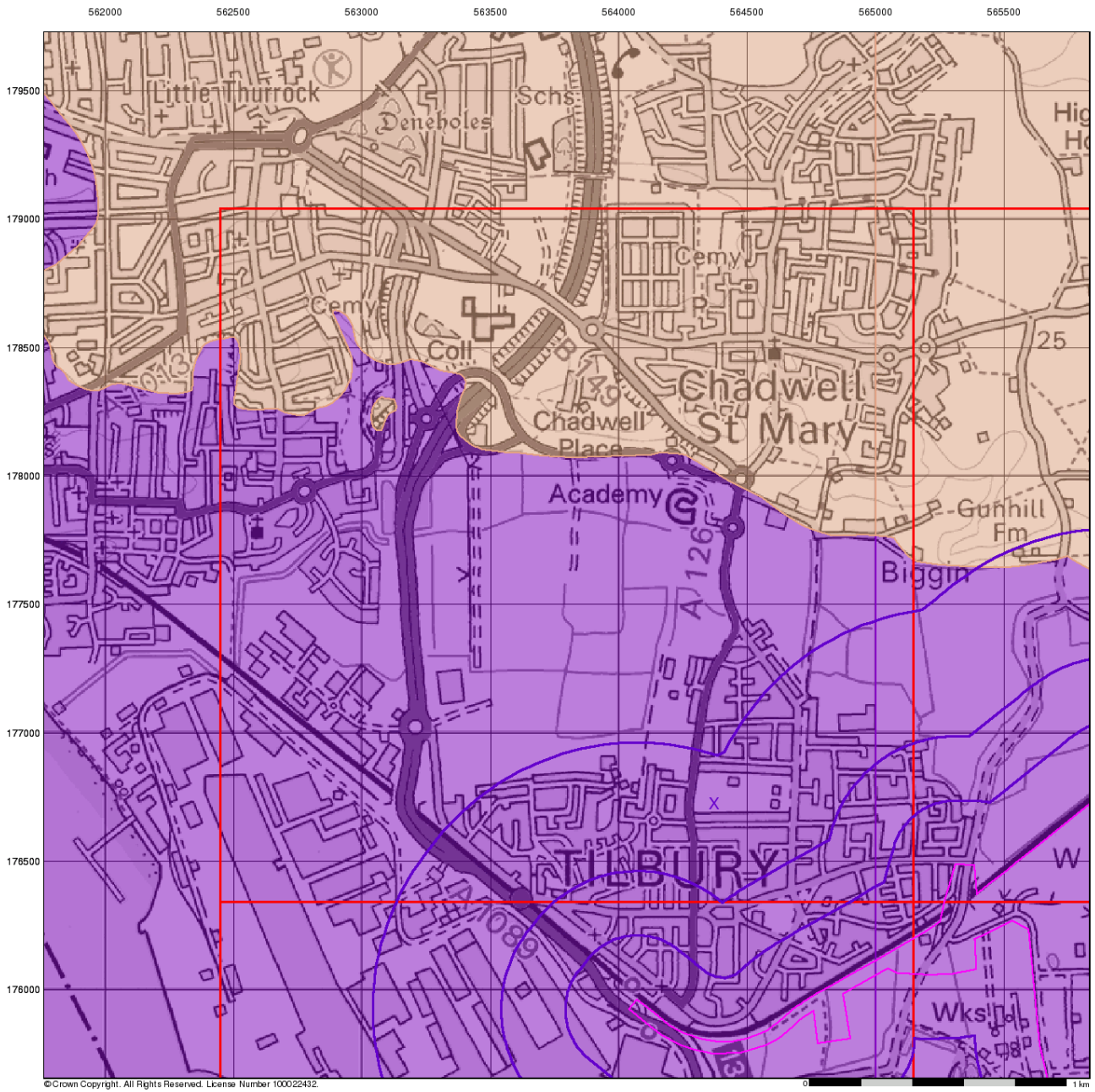

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Bedrock Aquifer Designation

General

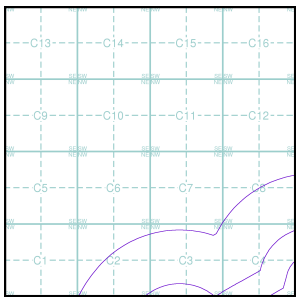
Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

Agency and Hydrological

Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown
- Unknown (Lakes and Landslip)

Site Sensitivity Context Map - Slice C



Order Details

Order Number:	107251247_1_1
Customer Ref:	5153187- 211 Tilbury Power Station
National Grid Reference:	564370, 176730
Slice:	C
Site Area (Ha):	81.8
Search Buffer (m):	1000

Site Details

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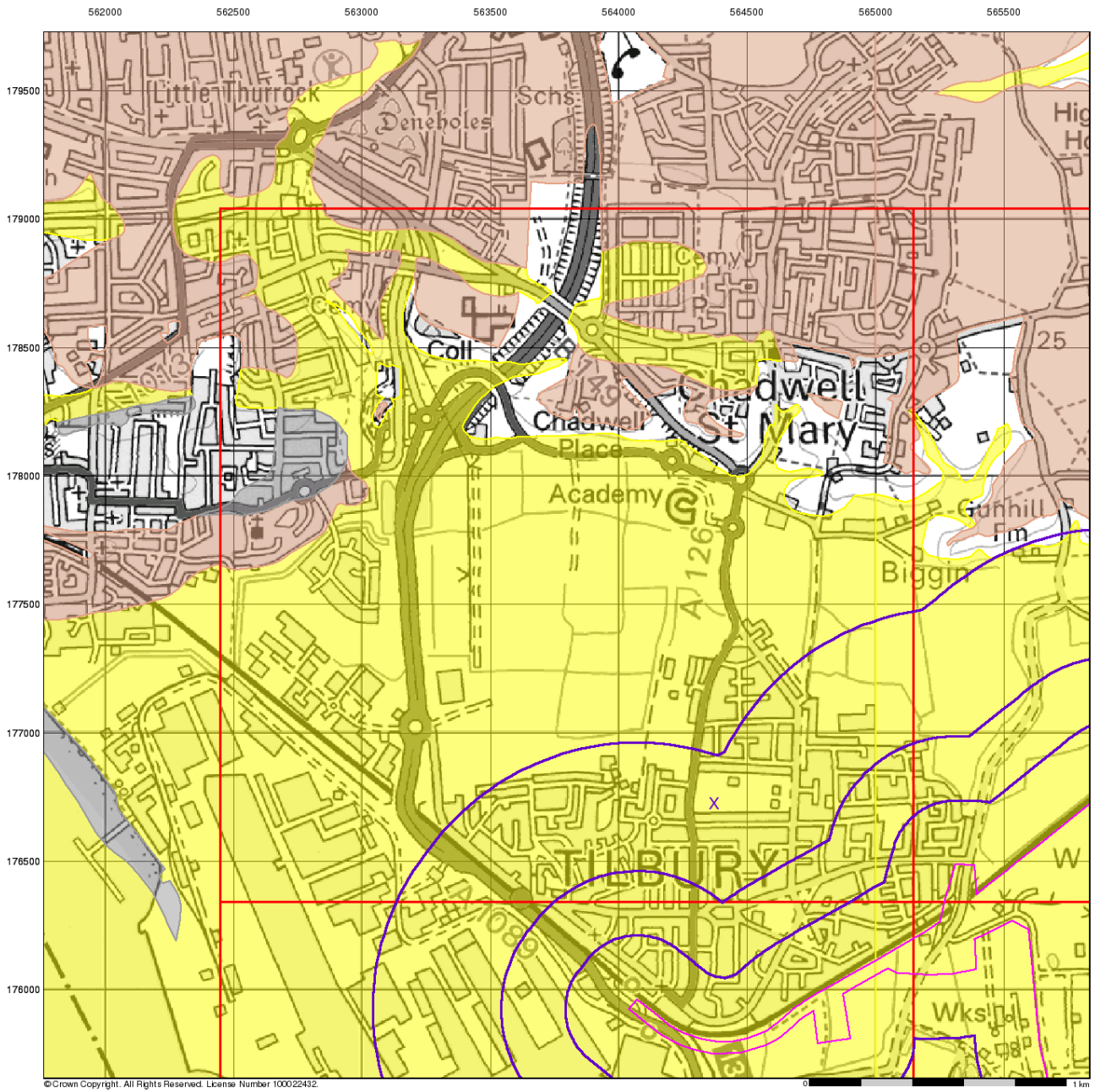

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Superficial Aquifer Designation

General

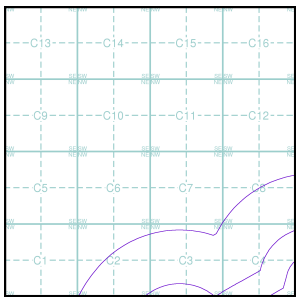
Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

Agency and Hydrological

Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown
- Unknown (Lakes and Landslip)

Site Sensitivity Context Map - Slice C



Order Details

Order Number:	107251247_1_1
Customer Ref:	5153187- 211 Tilbury Power Station
National Grid Reference:	564370, 176730
Slice:	C
Site Area (Ha):	81.8
Search Buffer (m):	1000

Site Details

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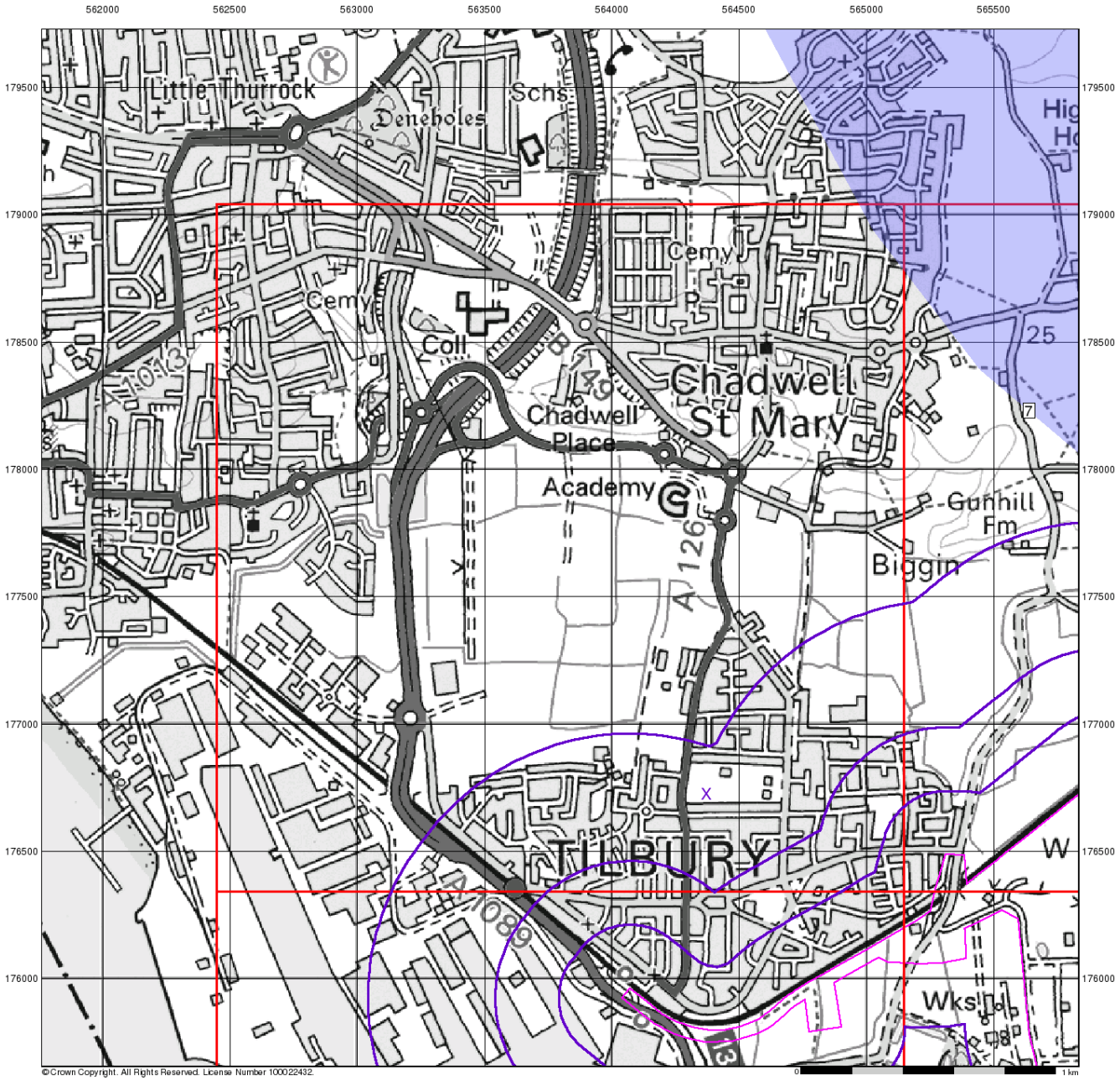

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Source Protection Zones

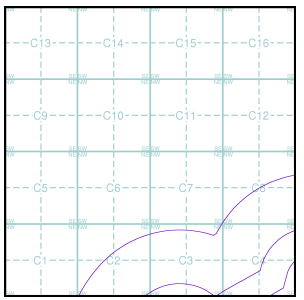
General

Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

Agency and Hydrological

- Inner zone (Zone 1)
- Inner zone - subsurface activity only (Zone 1c)
- Outer zone (Zone 2)
- Outer zone - subsurface activity only (Zone 2c)
- Total catchment (Zone 3)
- Total catchment - subsurface activity only (Zone 3c)
- Special interest (Zone 4)
- Source Protection Zone Borehole

Site Sensitivity Context Map - Slice C



Order Details

Order Number:	107251247_1_1
Customer Ref:	5153187- 211 Tilbury Power Station
National Grid Reference:	564370, 176730
Slice:	C
Site Area (Ha):	81.8
Search Buffer (m):	1000

Site Details

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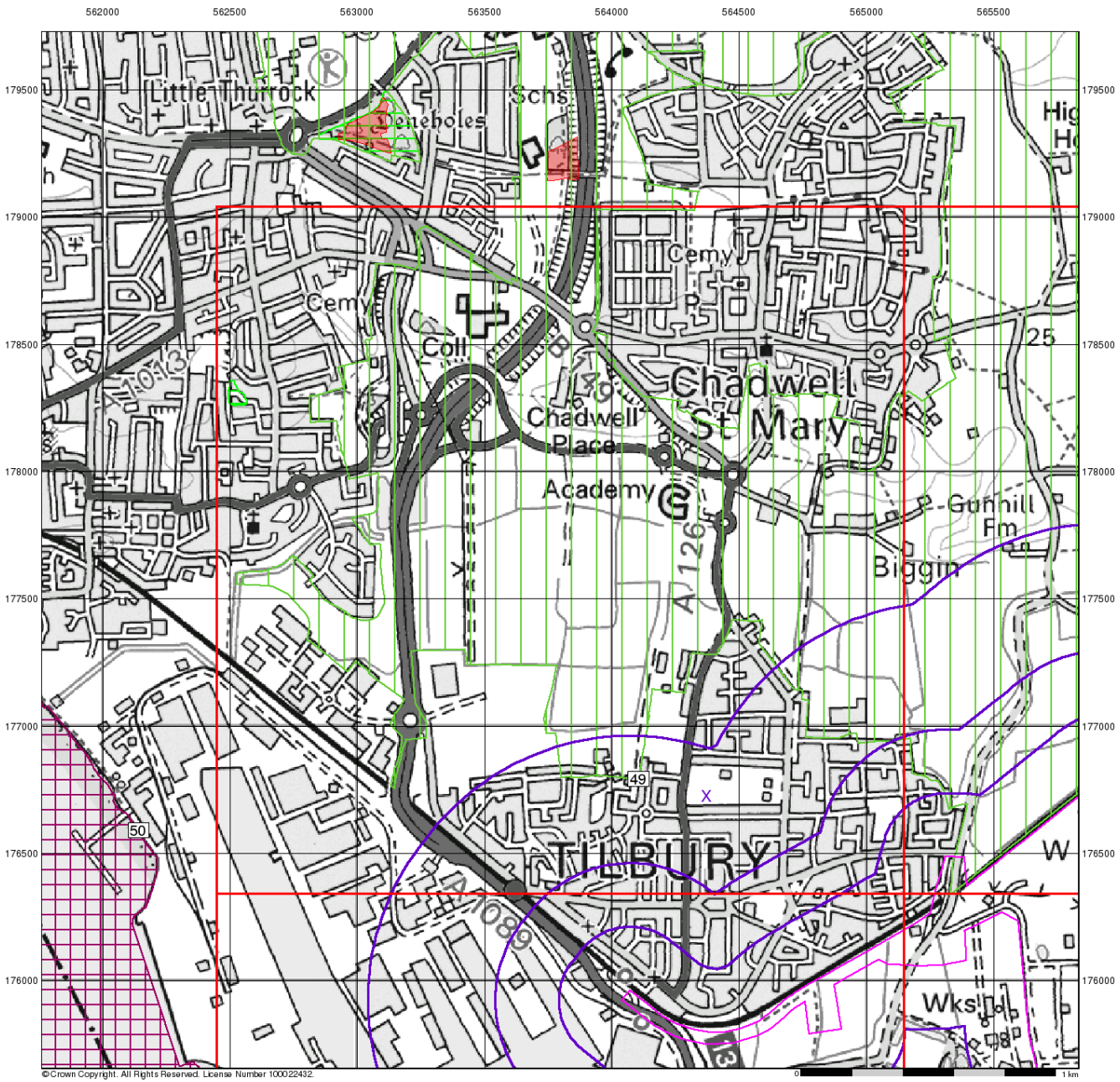
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



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Sensitive Land Uses

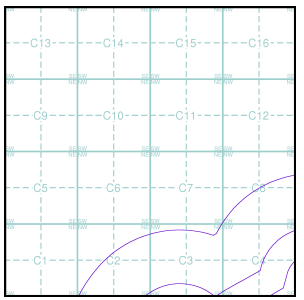
General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Sensitive Land Uses

- Ancient Woodland
- Area of Adopted Green Belt
- Area of Unadopted Green Belt
- Area of Outstanding Natural Beauty
- Environmentally Sensitive Area
- Forest Park
- Local Nature Reserve
- Marine Nature Reserve
- National Nature Reserve
- National Park
- Nitrate Sensitive Area
- Nitrate Vulnerable Zone
- Ramsar Site
- Site of Special Scientific Interest
- Special Area of Conservation
- Special Protection Area
- World Heritage Sites

Site Sensitivity Context Map - Slice C



Order Details

Order Number:	107251247_1_1
Customer Ref:	5153187- 211 Tilbury Power Station
National Grid Reference:	564370, 176730
Slice:	C
Site Area (Ha):	81.8
Search Buffer (m):	1000

Site Details

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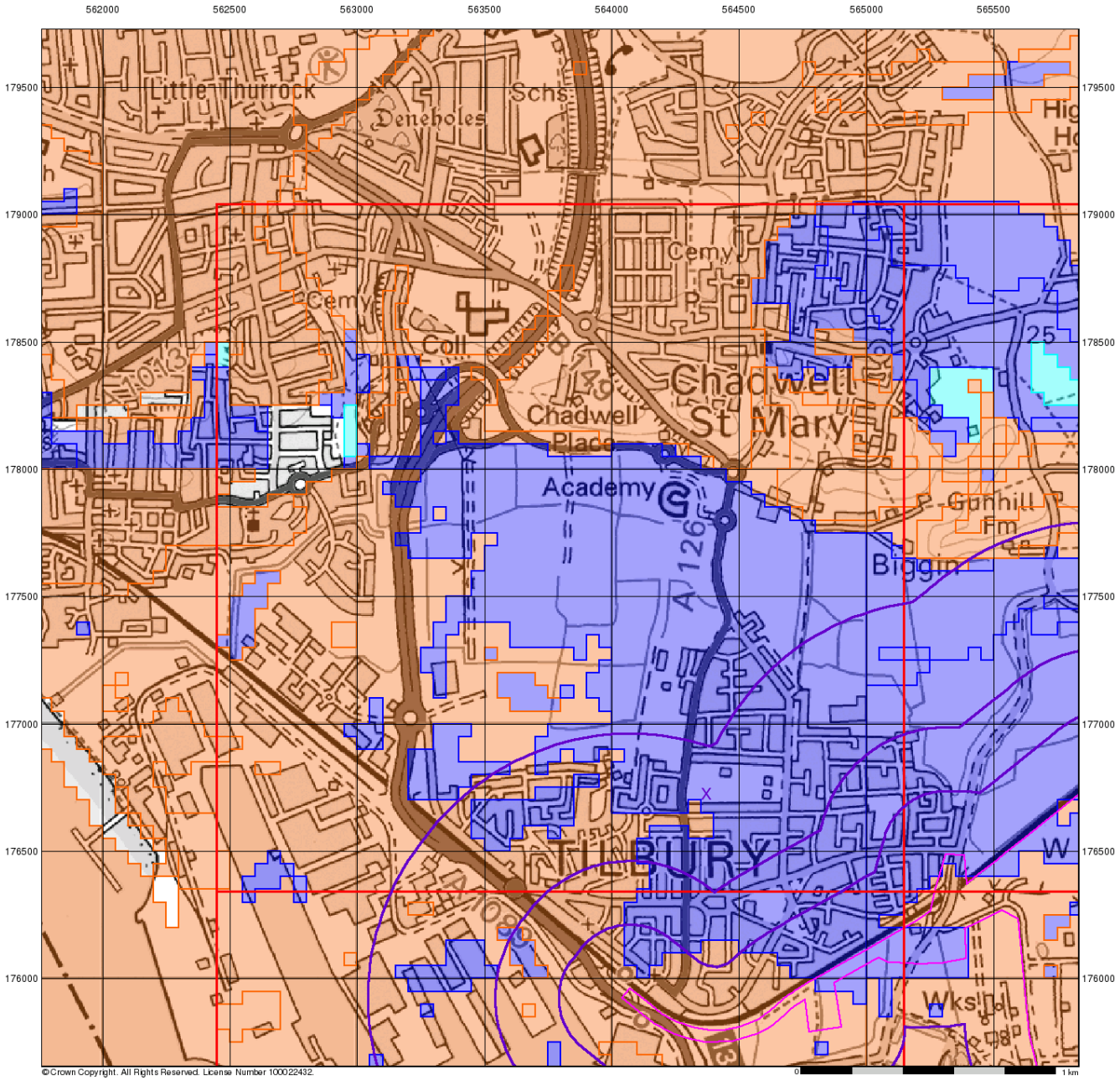

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BGS Flood GFS Data

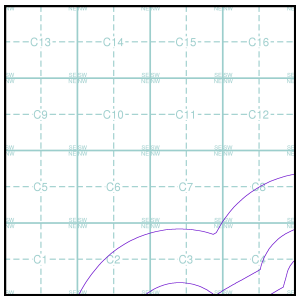
General

Specified Site
Specified Buffer(s)
Bearing Reference Point
Slice

Agency and Hydrological (Flood)

Limited Potential for Groundwater Flooding to Occur
Potential for Groundwater Flooding of Property Situated Below Ground Level
Potential for Groundwater Flooding to Occur at Surface

Site Sensitivity Context Map - Slice C



Order Details

Order Number:	107251247_1_1
Customer Ref:	5153187- 211 Tilbury Power Station
National Grid Reference:	564370, 176730
Slice:	C
Site Area (Ha):	81.8
Search Buffer (m):	1000

Site Details

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Envirocheck® Report:

Datasheet

Order Details:

Order Number:
107251247_1_1

Customer Reference:
5153187- 211 Tilbury Power Station

National Grid Reference:
564370, 176730

Slice:
C

Site Area (Ha):
81.8

Search Buffer (m):
1000

Site Details:

Gravesend

Client Details:

Ms T Radford
Atkins Ltd
The Wells
3-13 Church Street
Epsom
Surrey
KT17 4PF

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Contents

Introduction

The Environment Act 1995 has made site sensitivity a key issue, as the legislation pays as much attention to the pathways by which contamination could spread, and to the vulnerable targets of contamination, as it does the potential sources of contamination.
For this reason, Landmark's Site Sensitivity maps and Datasheet(s) place great emphasis on statutory data provided by the Environment Agency/Natural Resources Wales and the Scottish Environment Protection Agency; it also incorporates data from Natural England (and the Scottish and Welsh equivalents) and Local Authorities; and highlights hydrogeological features required by environmental and geotechnical consultants. It does not include any information concerning past uses of land. The datasheet is produced by querying the Landmark database to a distance defined by the client from a site boundary provided by the client.

In the attached datasheet the National Grid References (NGRs) are rounded to the nearest 10m in accordance with Landmark's agreements with a number of Data Suppliers.

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Ove Arup Copyright Notice

Peter Brett Associates Copyright Notice

Radon Potential dataset Copyright Notice

Report Version v50.0

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Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
BGS Groundwater Flooding Susceptibility	pg 1	Yes	Yes	Yes	n/a
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 1				5
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
Enforcement and Prohibition Notices					
Integrated Pollution Controls					
Integrated Pollution Prevention And Control					
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls					
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 2		Yes		
Pollution Incidents to Controlled Waters	pg 3				1
Prosecutions Relating to Authorised Processes					
Registered Radioactive Substances					
River Quality					
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register	pg 3				1
Water Abstractions					
Water Industry Act Referrals					
Groundwater Vulnerability	pg 3	Yes	n/a	n/a	n/a
Drift Deposits	pg 3	1	n/a	n/a	n/a
Bedrock Aquifer Designations	pg 3	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 3	Yes	n/a	n/a	n/a
Source Protection Zones	pg 3				1
Extreme Flooding from Rivers or Sea without Defences	pg 3	Yes	Yes	n/a	n/a
Flooding from Rivers or Sea without Defences	pg 4	Yes		n/a	n/a
Areas Benefiting from Flood Defences	pg 4	Yes	Yes	n/a	n/a
Flood Water Storage Areas	pg 4	Yes		n/a	n/a
Flood Defences				n/a	n/a
Detailed River Network Lines	pg 4	Yes		Yes	n/a
Detailed River Network Offline Drainage					n/a

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Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites					
Historical Landfill Sites					
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)					
Local Authority Landfill Coverage	pg 5	1	n/a	n/a	n/a
Local Authority Recorded Landfill Sites					
Potentially Infilled Land (Non-Water)					
Potentially Infilled Land (Water)	pg 5		4	3	11
Registered Landfill Sites					
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites					
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents	pg 6				1
Planning Hazardous Substance Enforcements					

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Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Geological					
BGS 1:625,000 Solid Geology	pg 7	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 7	Yes	Yes		Yes
BGS Recorded Mineral Sites					
BGS Urban Soil Chemistry	pg 7			Yes	Yes
BGS Urban Soil Chemistry Averages	pg 8	Yes			
Brine Compensation Area			n/a	n/a	n/a
Coal Mining Affected Areas			n/a	n/a	n/a
Mining Instability			n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain				n/a	n/a
Potential for Collapsible Ground Stability Hazards				n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 9	Yes		n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 9	Yes		n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 9	Yes		n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 9	Yes		n/a	n/a
Radon Potential - Radon Affected Areas			n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a
Industrial Land Use					
Contemporary Trade Directory Entries	pg 10		1	6	15
Fuel Station Entries					
Points of Interest - Commercial Services	pg 11			3	6
Points of Interest - Education and Health					
Points of Interest - Manufacturing and Production	pg 12			2	
Points of Interest - Public Infrastructure					
Points of Interest - Recreational and Environmental	pg 12				2
Gas Pipelines					
Underground Electrical Cables					

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Sensitive Land Use					
Ancient Woodland					
Areas of Adopted Green Belt	pg 13	1			
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves	pg 13	1			
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones					
Ramsar Sites					
Sites of Special Scientific Interest					
Special Areas of Conservation					
Special Protection Areas					
World Heritage Sites					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	C4NE (E)	0	2	565000 176727
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(E)	0	2	565800 176300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	C3NE (NW)	0	2	564374 176727
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	C3NE (SW)	0	2	564350 176700
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(SE)	0	2	565050 176250
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(E)	0	2	565700 176250
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(E)	0	2	565750 176700
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SE)	0	2	565700 176050
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SE)	43	2	564800 175750
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(S)	93	2	564100 175750
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SE)	160	2	565250 175900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SW)	298	2	563800 175750
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SW)	302	2	563700 176150
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(SW)	343	2	563700 175900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SW)	498	2	563500 176150
1	**Discharge Consents** Operator: Wimpey Homes Holdings Limited Property Type: Not Supplied Location: Premises At Burns Place, Tilbury, Essex Authority: Environment Agency, Anglian Region Catchment Area: Not Supplied Reference: Pr2nf574 Permit Version: 1 Effective Date: 7th July 1987 Issued Date: 7th July 1987 Revocation Date: 8th September 1992 Discharge Type: Discharge Of Other Matter-Surface Water Discharge Environment: Ditch Receiving Water: Chadwell Cross Sewer **Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989** Positional Accuracy: Located by supplier to within 10m	C4NW (E)	546	3	564800 176680

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
2	**Discharge Consents** Operator: The Residents Property Type: Not Supplied Location: The Broadway, Tilbury, Essex, Rm18 7bp Authority: Environment Agency, Anglian Region Catchment Area: Not Supplied Reference: Pr2nfe11565 Permit Version: 1 Effective Date: 20th August 1965 Issued Date: 20th August 1965 Revocation Date: 2nd March 1993 Discharge Type: Discharge Of Other Matter-Surface Water Discharge Environment: Ditch Receiving Water: Chadwell Main Sewer **Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989** Positional Accuracy: Located by supplier to within 100m	C2SE (SW)	645	3	563600 176400
3	**Discharge Consents** Operator: Port Of Tilbury London Ltd Property Type: Undefined Or Other Location: East Tilbury Dock, St Andrews Road, Tilbury, Essex Authority: Environment Agency, Anglian Region Catchment Area: River Mardyke (Grays) Reference: Pr2nfe09067 Permit Version: 1 Effective Date: 6th June 1967 Issued Date: 7th June 1967 Revocation Date: 13th May 2002 Discharge Type: Trade Effluent Discharge-Site Drainage Discharge Environment: Freshwater Stream/River Receiving Water: East Tilbury Dock Sewer **Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989** Positional Accuracy: Located by supplier to within 10m	C2SW (W)	863	3	563396 176496
4	**Discharge Consents** Operator: Essex County Council(Highways Dept) Property Type: Not Supplied Location: Tilbury St Chads County Secondary S, St Chads Road, Tilbury Authority: Environment Agency, Anglian Region Catchment Area: Not Supplied Reference: Pr2nfe04372 Permit Version: 1 Effective Date: 14th June 1972 Issued Date: 14th June 1972 Revocation Date: 12th February 1992 Discharge Type: Discharge Of Other Matter-Surface Water Discharge Environment: Freshwater Stream/River Receiving Water: Trib River Thames **Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989** Positional Accuracy: Located by supplier to within 100m	C3NW (NW)	939	3	564100 176900
4	**Discharge Consents** Operator: Essex County Council(Highways Dept.) Property Type: Undefined Or Other Location: Tilbury St Chads County Secondary S, St Chads Road, Tilbury Authority: Environment Agency, Anglian Region Catchment Area: Not Supplied Reference: Pr2nfe04372 Permit Version: 1 Effective Date: 14th June 1972 Issued Date: 14th June 1972 Revocation Date: 12th February 1992 Discharge Type: Discharge Of Other Matter-Surface Water Discharge Environment: Freshwater Stream/River Receiving Water: Trib River Thames **Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989** Positional Accuracy: Located by supplier to within 100m	C3NW (NW)	939	3	564100 176900
	Nearest Surface Water Feature	(NE)	219	-	565150 177149

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
5	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Chelmsford District Authority: Environment Agency, Anglian Region Pollutant: Unknown Note: Not Supplied Incident Date: 21st July 1993 Incident Reference: 1990 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	C3SE (S)	547	3	564400 176400
6	**Substantiated Pollution Incident Register** Authority: Environment Agency - Anglian Region, Eastern Area Incident Date: 29th June 2008 Incident Reference: 600395 Water Impact: Category 4 - No Impact Air Impact: Category 4 - No Impact Land Impact: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 10m Pollutant: Oils - Unknown	C2SE (SW)	540	3	563753 176396
	Groundwater Vulnerability Soil Classification: Not classified Map Sheet: Sheet 40 Thames Estuary Scale: 1:100,000	(SW)	0	3	563626 176225
	Groundwater Vulnerability Soil Classification: Soils of High Leaching Potential (U) - Soil information for restored mineral workings and urban areas is based on fewer observations than elsewhere. A worst case vulnerability classification (H) assumed, until proved otherwise Map Sheet: Sheet 40 Thames Estuary Scale: 1:100,000	C3NE (NW)	0	3	564374 176727
	Groundwater Vulnerability Soil Classification: Soils of High Leaching Potential (H1) - Soils which readily transmit liquid discharges because they are either shallow, or susceptible to rapid by-pass flow directly to rock, gravel or groundwater Map Sheet: Sheet 40 Thames Estuary Scale: 1:100,000	C3NW (NW)	0	3	563991 176999
	Drift Deposits Drift Deposit: Low permeability drift deposits occuring at the surface and overlying Major and Minor Aquifers are head, clay-with-flints, brickearth, peat, river terrace deposits and marine and estuarine alluvium Map Sheet: Sheet 40 Thames Estuary Scale: 1:100,000	C3NE (NW)	0	3	564374 176727
	Bedrock Aquifer Designations Aquifer Designation: Principal Aquifer	C3NE (NW)	0	2	564374 176727
	Bedrock Aquifer Designations Aquifer Designation: Principal Aquifer	C4NE (E)	0	2	565000 176727
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - Undifferentiated	C4NE (E)	0	2	565000 176727
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - Undifferentiated	C3NE (NW)	0	2	564374 176727
7	**Source Protection Zones** Name: Various Source: Environment Agency, Head Office Reference: Not Supplied Type: Zone III (Total Catchment): The total area needed to support the discharge from the protected groundwater source.	(NE)	973	3	565640 178228
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	C3NE (NW)	0	3	564374 176727
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	C3NW (W)	57	3	564016 176740

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	C3NE (NW)	0	3	564374 176727
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	C3NE (E)	0	3	564379 176726
	Areas Benefiting from Flood Defences Type: Area Benefiting from Flood Defences Boundary Accuracy: As Supplied	C3NE (NW)	0	3	564374 176727
	Areas Benefiting from Flood Defences Type: Area Benefiting from Flood Defences Boundary Accuracy: As Supplied	C3NW (W)	118	3	563875 176696
	Flood Water Storage Areas Type: Flood Water Storage Areas Reference: Not Supplied	C3NW (NW)	0	3	564105 176986
	Flood Defences None				
8	**Detailed River Network Lines** River Type: Extended Culvert (greater than 50m) River Name: Not Supplied Hydrographic Area: B06 River Flow Type: Primary Flow Path River Surface Level: Below Surface Drain Feature: Not a Drain Flood Risk Management Status: Flood Risk Management Indicative/Statutory Main River Water Course Name: Not Supplied Water Course Reference: 1357	C3NE (N)	0	3	564342 177008
9	**Detailed River Network Lines** River Type: Extended Culvert (greater than 50m) River Name: Not Supplied Hydrographic Area: B06 River Flow Type: Primary Flow Path River Surface Level: Below Surface Drain Feature: Not a Drain Flood Risk Management Status: Flood Risk Management Indicative/Statutory Main River Water Course Name: Not Supplied Water Course Reference: 1380	(SW)	493	3	563689 176269
	Detailed River Network Offline Drainage None				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Local Authority Landfill Coverage Name: Thurrock Unitary Council - Has supplied landfill data		0	4	564374 176727
10	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1923	C4SE (E)	80	-	564840 176539
11	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1923	C4SW (SE)	148	-	564666 176427
12	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1923	C4SW (SE)	166	-	564655 176530
13	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1923	C4SW (SE)	171	-	564514 176525
14	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1923	C4SE (SE)	293	-	564839 176447
15	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1923	C4SW (SE)	394	-	564674 176532
16	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1923	C3SE (S)	417	-	564365 176521
17	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1923	C4NW (E)	587	-	564544 176709
18	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1898	C4NW (E)	637	-	564537 176708
19	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1923	C3NE (E)	654	-	564472 176722
20	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1923	C3NE (W)	680	-	564287 176737
21	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1923	C4NW (NE)	702	-	564555 176811
22	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1961	C8SE (NE)	781	-	565012 177273
23	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1923	C3NE (N)	884	-	564387 176834
24	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	C3NE (NW)	889	-	564189 176844
25	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1923	C3NE (N)	912	-	564376 176837
26	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1923	C3NE (N)	948	-	564353 176966
27	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1923	C7SE (N)	990	-	564408 177062

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
28	**Planning Hazardous Substance Consents** Name: Port Of Tilbury London Ltd Location: Shed 1, Tilbury Dock, Tilbury, Essex, Rm18 Authority: Thurrock Borough Council, Development Control Application Ref: 97/00732/Hsc Hazardous Substance: Ammonium nitrate and ammonium nitrate compounds (where nitrogen content is more than 28% by weight) or aqueous ammonium nitrate solutions (where concentration of ammonium nitrate is more than 90% by weight) Maximum Quantity: 85 Application date: 12th September 1997 **Decision: Deemed Consent GrantedGranted** Positional Accuracy: Manually positioned within the geographical locality	C2SW (W)	965	5	563176 176348

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: White Chalk Subgroup	C3NE (NW)	0	2	564374 176727
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 90 - 120 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	C3NE (NW)	0	2	564374 176727
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	C3NE (N)	81	2	564374 177000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	C2SE (W)	547	2	563500 176500
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 40 - 60 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	C16SW (N)	854	2	564519 178520
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 565113, 176734 Soil Sample Type: Topsoil Sample Area: London Arsenic Measured Concentration: 14.90 mg/kg Cadmium Measured Concentration: 0.60 mg/kg Chromium Measured Concentration: 80.80 mg/kg Lead Measured Concentration: 114.60 mg/kg Nickel Measured Concentration: 29.90 mg/kg	C4NE (E)	317	2	565113 176734

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 564808, 176638 Soil Sample Type: Topsoil Sample Area: London Arsenic Measured Concentration: 12.10 mg/kg Cadmium Measured Concentration: 0.10 mg/kg Chromium Measured Concentration: 42.20 mg/kg Lead Measured Concentration: 70.30 mg/kg Nickel Measured Concentration: 13.60 mg/kg	C4SW (E)	525	2	564808 176638
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 564359, 176777 Soil Sample Type: Topsoil Sample Area: London Arsenic Measured Concentration: 24.30 mg/kg Cadmium Measured Concentration: 0.20 mg/kg Chromium Measured Concentration: 98.60 mg/kg Lead Measured Concentration: 97.30 mg/kg Nickel Measured Concentration: 39.00 mg/kg	C3NE (N)	864	2	564359 176777
	BGS Urban Soil Chemistry Averages Source: British Geological Survey, National Geoscience Information Service Sample Area: London Count Id: 7209 Arsenic Minimum Concentration: 1.00 mg/kg Arsenic Average Concentration: 17.00 mg/kg Arsenic Maximum Concentration: 161.00 mg/kg Cadmium Minimum Concentration: 0.10 mg/kg Cadmium Average Concentration: 0.90 mg/kg Cadmium Maximum Concentration: 165.20 mg/kg Chromium Minimum Concentration: 13.00 mg/kg Chromium Average Concentration: 79.00 mg/kg Chromium Maximum Concentration: 2094.00 mg/kg Lead Minimum Concentration: 11.00 mg/kg Lead Average Concentration: 280.00 mg/kg Lead Maximum Concentration: 10000.00 mg/kg Nickel Minimum Concentration: 2.00 mg/kg Nickel Average Concentration: 28.00 mg/kg Nickel Maximum Concentration: 506.00 mg/kg	C3NE (NW)	0	2	564374 176727
	Coal Mining Affected Areas In an area that might not be affected by coal mining				
	Non Coal Mining Areas of Great Britain No Hazard				
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C4NE (E)	0	2	565000 176727
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C3NE (NW)	0	2	564374 176727

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	C3NE (NW)	0	2	564374 176727
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	C4NE (E)	0	2	565000 176727
	Potential for Compressible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	(SW)	0	2	563891 176160
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C3NE (NW)	0	2	564374 176727
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C4NE (E)	0	2	565000 176727
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	C3NE (NW)	0	2	564374 176727
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	C4NE (E)	0	2	565000 176727
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	C3NE (NW)	0	2	564374 176727
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	C4NE (E)	0	2	565000 176727
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	C3NE (NW)	0	2	564374 176727
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	C4NE (E)	0	2	565000 176727
	Radon Potential - Radon Affected Areas Affected Area: The property is in a Lower probability radon area (less than 1% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	C3NE (NW)	0	2	564374 176727
	Radon Potential - Radon Affected Areas Affected Area: The property is in a Lower probability radon area (less than 1% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	C4NE (E)	0	2	565002 176727
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	C3NE (NW)	0	2	564374 176727
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	C4NE (E)	0	2	565002 176727

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
29	**Contemporary Trade Directory Entries** Name: Bio-Green Cleaners Ltd Location: 46, Chaucer Close, Tilbury, Essex, RM18 8EG Classification: Cleaning Services - Domestic **Status: Active** Positional Accuracy: Automatically positioned to the address	C4SE (SE)	130	-	565144 176373
30	**Contemporary Trade Directory Entries** Name: Gmc Transport Ltd Location: Unit 12, Lansdowne Road, Tilbury, Essex, RM18 7QB Classification: Distribution Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	C3SW (SW)	388	-	564010 176345
31	**Contemporary Trade Directory Entries** Name: Essex Tarpaulin Ltd Location: 31, Fielding Avenue, Tilbury, Essex, RM18 8HN Classification: Tarpaulins **Status: Inactive** Positional Accuracy: Automatically positioned to the address	C4NE (E)	392	-	565013 176741
32	**Contemporary Trade Directory Entries** Name: Kleeneze Location: 48, Kipling Avenue, Tilbury, Essex, RM18 8HF Classification: Cleaning Materials & Equipment **Status: Inactive** Positional Accuracy: Automatically positioned to the address	C4NE (E)	399	-	565081 176812
33	**Contemporary Trade Directory Entries** Name: Essex Auto Repairs Location: Lansdowne Road, Tilbury, Essex, RM18 7QB Classification: Garage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	C3SW (SW)	416	-	564062 176378
34	**Contemporary Trade Directory Entries** Name: Flyer Direct Location: 61, Ottawa Road, Tilbury, Essex, RM18 7RJ Classification: Distribution Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	C3SE (SW)	424	-	564184 176371
35	**Contemporary Trade Directory Entries** Name: Jc Cleaning Service Location: 5, Dryden Place, Tilbury, Essex, RM18 8HQ Classification: Cleaning Services - Domestic **Status: Inactive** Positional Accuracy: Automatically positioned to the address	C4NE (E)	492	-	564901 176760
36	**Contemporary Trade Directory Entries** Name: Euro Supply Organisation International Ltd Location: 128, Dock Road, Tilbury, Essex, RM18 7BJ Classification: Freight Forwarders **Status: Inactive** Positional Accuracy: Automatically positioned to the address	C2SE (SW)	525	-	563718 176348
37	**Contemporary Trade Directory Entries** Name: Travis Perkins Trading Location: Tilbury Distribution Centre, Tilbury, Essex, RM18 7EH Classification: Distribution Services **Status: Inactive** Positional Accuracy: Manually positioned within the geographical locality	C3SW (SW)	539	-	563958 176488
38	**Contemporary Trade Directory Entries** Name: Arrow Motors Location: 245, Dock Road, Tilbury, Essex, RM18 7BJ Classification: Car Dealers - Used **Status: Inactive** Positional Accuracy: Automatically positioned to the address	C2SE (SW)	589	-	563629 176349
38	**Contemporary Trade Directory Entries** Name: Station Car Sales Location: 245, Dock Road, Tilbury, Essex, RM18 7BJ Classification: Car Dealers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	C2SE (SW)	589	-	563629 176349
39	**Contemporary Trade Directory Entries** Name: Woollett Airey & Co Ltd Location: 162a, Dock Road, Tilbury, Essex, RM18 7BS Classification: Freight Forwarders **Status: Inactive** Positional Accuracy: Automatically positioned to the address	C2SE (W)	649	-	563609 176415

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
39	**Contemporary Trade Directory Entries** Name: E W Taylor & Co Ltd Location: 162, Dock Road, Tilbury, Essex, RM18 7BS Classification: Freight Forwarders **Status: Inactive** Positional Accuracy: Automatically positioned to the address	C2SE (W)	649	-	563609 176415
39	**Contemporary Trade Directory Entries** Name: Woollett Airey Location: 162a, Dock Road, Tilbury, Essex, RM18 7BS Classification: Freight Forwarders **Status: Inactive** Positional Accuracy: Automatically positioned to the address	C2SE (W)	649	-	563609 176415
39	**Contemporary Trade Directory Entries** Name: G R Motors Location: 176-178, Dock Road, Tilbury, Essex, RM18 7BS Classification: Car Body Repairs **Status: Inactive** Positional Accuracy: Automatically positioned to the address	C2SE (W)	693	-	563576 176444
39	**Contemporary Trade Directory Entries** Name: Joe'S Motors Location: 176-178, Dock Road, Tilbury, Essex, RM18 7BS Classification: Car Body Repairs **Status: Inactive** Positional Accuracy: Automatically positioned to the address	C2SE (W)	693	-	563576 176444
40	**Contemporary Trade Directory Entries** Name: Platinum Support (Uk) Ltd Location: 25, Northview Avenue, Tilbury, Essex, RM18 7RT Classification: Commercial Cleaning Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	C3NW (W)	804	-	564126 176764
40	**Contemporary Trade Directory Entries** Name: Platinum Support (Uk) Ltd Location: 25, Northview Avenue, Tilbury, Essex, RM18 7RT Classification: Cleaning Services - Domestic **Status: Inactive** Positional Accuracy: Automatically positioned to the address	C3NW (W)	804	-	564126 176764
41	**Contemporary Trade Directory Entries** Name: Delta Haulage Location: 20, Russell Road, Tilbury, RM18 7AH Classification: Road Haulage Services **Status: Active** Positional Accuracy: Automatically positioned to the address	C2SE (W)	929	-	563468 176666
42	**Contemporary Trade Directory Entries** Name: South Essex Cleaning Services Location: 1, Melbourne Court, Melbourne Road, Tilbury, Essex, RM18 7AZ Classification: Carpet, Curtain & Upholstery Cleaners **Status: Inactive** Positional Accuracy: Automatically positioned to the address	C2SW (W)	942	-	563399 176619
42	**Contemporary Trade Directory Entries** Name: Rohlig (Uk) Ltd Location: Globe House, Dock Road, Tilbury, Essex, RM18 7BL Classification: Freight Forwarders **Status: Inactive** Positional Accuracy: Automatically positioned to the address	C2SW (W)	948	-	563389 176618
42	**Contemporary Trade Directory Entries** Name: Uniserve Ltd Location: Globe House, Dock Road, Tilbury, Essex, RM18 7BL Classification: Freight Forwarders **Status: Inactive** Positional Accuracy: Automatically positioned to the address	C2SW (W)	948	-	563389 176618
43	**Points of Interest - Commercial Services** Name: D K Mobile Servicing Location: 3 Parker Avenue, Tilbury, RM18 8JA Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	C4NE (E)	351	6	565112 176776
44	**Points of Interest - Commercial Services** Name: Gmc Transport Ltd Location: Unit 12, Lansdowne Road, Tilbury, RM18 7QB Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	C3SW (SW)	388	6	564010 176345

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
44	**Points of Interest - Commercial Services** Name: G M C Transport Ltd Location: Unit 12, Lansdowne Road, Tilbury, RM18 7QB Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	C3SW (SW)	388	6	564010 176345
45	**Points of Interest - Commercial Services** Name: Euro Supply Organisation International Ltd Location: 128 Dock Road, Tilbury, RM18 7BJ Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	C2SE (SW)	525	6	563718 176348
45	**Points of Interest - Commercial Services** Name: Euro Supply Organisation International Ltd Location: 128 Dock Road, Tilbury, RM18 7BJ Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	C2SE (SW)	525	6	563718 176348
46	**Points of Interest - Commercial Services** Name: E W Taylor & Co Ltd Location: 162 Dock Road, Tilbury, RM18 7BS Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	C2SE (W)	649	6	563609 176415
46	**Points of Interest - Commercial Services** Name: Woollett Airey Location: 162a Dock Road, Tilbury, RM18 7BS Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	C2SE (W)	649	6	563609 176415
46	**Points of Interest - Commercial Services** Name: E W Taylor Company Forwarding Ltd Location: 162 Dock Road, Tilbury, RM18 7BS Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	C2SE (W)	649	6	563609 176415
46	**Points of Interest - Commercial Services** Name: S B Logistics UK Ltd Location: 176-178 Dock Road, Tilbury, RM18 7BS Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	C2SE (W)	693	6	563576 176444
47	**Points of Interest - Manufacturing and Production** Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	C3SW (SW)	404	6	564042 176364
47	**Points of Interest - Manufacturing and Production** Name: Works Location: RM18 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	C3SW (SW)	405	6	564042 176365
48	**Points of Interest - Recreational and Environmental** Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	C4NW (E)	779	6	564583 176770
48	**Points of Interest - Recreational and Environmental** Name: Playground Location: Gainsborough Avenue, RM18 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	C4NW (E)	779	6	564583 176770

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
49	**Areas of Adopted Green Belt** Authority: Thurrock Borough Council, Development Control Plan Name: Core Strategy **Status: Adopted** Plan Date: 21st December 2011	C3NW (W)	0	5	564106 176790
50	**Marine Nature Reserves** Name: Thames Estuary Multiple Area: Y Area (m2): 10874320.9 Source: Natural England	(S)	0	7	564643 175247

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices		
Thurrock Borough Council - Environmental Health Department	November 2013	Annually
Dartford Borough Council - Environmental Health Department	October 2014	Annual Rolling Update
Gravesham Borough Council - Public Health Services	September 2013	Annual Rolling Update
Discharge Consents		
Environment Agency - Anglian Region	October 2016	Quarterly
Environment Agency - Southern Region	October 2016	Quarterly
Enforcement and Prohibition Notices		
Environment Agency - Anglian Region	March 2013	As notified
Environment Agency - Southern Region	March 2013	As notified
Integrated Pollution Controls		
Environment Agency - Anglian Region	October 2008	Not Applicable
Environment Agency - Southern Region	October 2008	Not Applicable
Integrated Pollution Prevention And Control		
Environment Agency - Anglian Region	October 2016	Quarterly
Environment Agency - Southern Region	October 2016	Quarterly
Local Authority Integrated Pollution Prevention And Control		
Thurrock Borough Council - Environmental Health Department	February 2015	Annual Rolling Update
Gravesham Borough Council - Environmental Health Department	October 2014	Annual Rolling Update
London Port Health Authority - Environmental Services	October 2014	Annual Rolling Update
Dartford Borough Council - Environmental Health Department	September 2014	Annual Rolling Update
Local Authority Pollution Prevention and Controls		
Thurrock Borough Council - Environmental Health Department	February 2015	Annual Rolling Update
Gravesham Borough Council - Environmental Health Department	October 2014	Annual Rolling Update
London Port Health Authority - Environmental Services	October 2014	Annual Rolling Update
Dartford Borough Council - Environmental Health Department	September 2014	Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements		
Thurrock Borough Council - Environmental Health Department	February 2015	Annual Rolling Update
Gravesham Borough Council - Environmental Health Department	October 2014	Annual Rolling Update
London Port Health Authority - Environmental Services	October 2014	Annual Rolling Update
Dartford Borough Council - Environmental Health Department	September 2014	Annual Rolling Update
Nearest Surface Water Feature		
Ordnance Survey	July 2012	Quarterly
Pollution Incidents to Controlled Waters		
Environment Agency - Southern Region	December 1999	Not Applicable
Environment Agency - Anglian Region	September 1999	Not Applicable
Prosecutions Relating to Authorised Processes		
Environment Agency - Anglian Region	March 2013	As notified
Environment Agency - Southern Region	March 2013	As notified
Prosecutions Relating to Controlled Waters		
Environment Agency - Anglian Region	March 2013	As notified
Environment Agency - Southern Region	March 2013	As notified
River Quality		
Environment Agency - Head Office	November 2001	Not Applicable
River Quality Biology Sampling Points		
Environment Agency - Head Office	July 2012	Annually
River Quality Chemistry Sampling Points		
Environment Agency - Head Office	July 2012	Annually
Substantiated Pollution Incident Register		
Environment Agency - Anglian Region - Eastern Area	October 2016	Quarterly
Environment Agency - Southern Region - Kent Area	October 2016	Quarterly
Environment Agency - Southern Region - Kent and East Sussex	October 2016	Quarterly

Data Currency

Agency & Hydrological	Version	Update Cycle
Water Abstractions		
Environment Agency - Anglian Region	July 2016	Quarterly
Environment Agency - Southern Region	July 2016	Quarterly
Water Industry Act Referrals		
Environment Agency - Anglian Region	October 2016	Quarterly
Environment Agency - Southern Region	October 2016	Quarterly
Groundwater Vulnerability		
Environment Agency - Head Office	April 2015	Not Applicable
Drift Deposits		
Environment Agency - Head Office	January 1999	Not Applicable
Bedrock Aquifer Designations		
British Geological Survey - National Geoscience Information Service	August 2015	As notified
Superficial Aquifer Designations		
British Geological Survey - National Geoscience Information Service	August 2015	As notified
Source Protection Zones		
Environment Agency - Head Office	October 2016	Quarterly
Extreme Flooding from Rivers or Sea without Defences		
Environment Agency - Head Office	October 2016	Quarterly
Flooding from Rivers or Sea without Defences		
Environment Agency - Head Office	October 2016	Quarterly
Areas Benefiting from Flood Defences		
Environment Agency - Head Office	October 2016	Quarterly
Flood Water Storage Areas		
Environment Agency - Head Office	October 2016	Quarterly
Flood Defences		
Environment Agency - Head Office	October 2016	Quarterly
Detailed River Network Lines		
Environment Agency - Head Office	September 2014	Annually
Detailed River Network Offline Drainage		
Environment Agency - Head Office	March 2012	Annually
Surface Water 1 in 30 year Flood Extent		
Environment Agency - Head Office	October 2013	As notified
Surface Water 1 in 100 year Flood Extent		
Environment Agency - Head Office	October 2013	As notified
Surface Water 1 in 1000 year Flood Extent		
Environment Agency - Head Office	October 2013	As notified
Surface Water Suitability		
Environment Agency - Head Office	October 2013	As notified
BGS Groundwater Flooding Susceptibility		
British Geological Survey - National Geoscience Information Service	May 2013	Annually

Data Currency

Waste	Version	Update Cycle
BGS Recorded Landfill Sites		
British Geological Survey - National Geoscience Information Service	June 1996	Not Applicable
Integrated Pollution Control Registered Waste Sites		
Environment Agency - Anglian Region	October 2008	Not Applicable
Environment Agency - Southern Region	October 2008	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries)		
Environment Agency - Anglian Region - Eastern Area	August 2016	Quarterly
Environment Agency - Southern Region - Kent Area	August 2016	Quarterly
Environment Agency - Southern Region - Kent and East Sussex	August 2016	Quarterly
Licensed Waste Management Facilities (Locations)		
Environment Agency - Anglian Region - Eastern Area	October 2016	Quarterly
Environment Agency - Southern Region - Kent Area	October 2016	Quarterly
Environment Agency - Southern Region - Kent and East Sussex	October 2016	Quarterly
Local Authority Landfill Coverage		
Dartford Borough Council - Environmental Health Department	May 2000	Not Applicable
Gravesham Borough Council	May 2000	Not Applicable
Kent County Council - Waste Management Group	May 2000	Not Applicable
Thurrock Borough Council - Environmental Health Department	May 2000	Not Applicable
Local Authority Recorded Landfill Sites		
Dartford Borough Council - Environmental Health Department	May 2000	Not Applicable
Gravesham Borough Council	May 2000	Not Applicable
Kent County Council - Waste Management Group	May 2000	Not Applicable
Thurrock Borough Council - Environmental Health Department	May 2000	Not Applicable
Potentially Infilled Land (Non-Water)		
Landmark Information Group Limited	December 1999	Not Applicable
Potentially Infilled Land (Water)		
Landmark Information Group Limited	December 1999	Not Applicable
Registered Landfill Sites		
Environment Agency - Anglian Region - Eastern Area	March 2003	Not Applicable
Environment Agency - Southern Region - Kent Area	March 2003	Not Applicable
Registered Waste Transfer Sites		
Environment Agency - Anglian Region - Eastern Area	March 2003	Not Applicable
Environment Agency - Southern Region - Kent Area	March 2003	Not Applicable
Registered Waste Treatment or Disposal Sites		
Environment Agency - Anglian Region - Eastern Area	March 2003	Not Applicable
Environment Agency - Southern Region - Kent Area	March 2003	Not Applicable

Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH)		
Health and Safety Executive	July 2016	Bi-Annually
Explosive Sites		
Health and Safety Executive	September 2016	Bi-Annually
Notification of Installations Handling Hazardous Substances (NIHHS)		
Health and Safety Executive	November 2000	Not Applicable
Planning Hazardous Substance Enforcements		
Thurrock Borough Council - Development Control	December 2015	Annual Rolling Update
London Port Health Authority - Environmental Services	January 2008	Annual Rolling Update
Dartford Borough Council	January 2016	Annual Rolling Update
Kent County Council	January 2016	Annual Rolling Update
Gravesham Borough Council	October 2015	Annual Rolling Update
Planning Hazardous Substance Consents		
Thurrock Borough Council - Development Control	December 2015	Annual Rolling Update
London Port Health Authority - Environmental Services	January 2008	Annual Rolling Update
Dartford Borough Council	January 2016	Annual Rolling Update
Kent County Council	January 2016	Annual Rolling Update
Gravesham Borough Council	October 2015	Annual Rolling Update

Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	January 2009	Not Applicable
BGS Estimated Soil Chemistry British Geological Survey - National Geoscience Information Service	October 2015	As notified
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	October 2016	Bi-Annually
BGS Urban Soil Chemistry British Geological Survey - National Geoscience Information Service	October 2015	As notified
BGS Urban Soil Chemistry Averages British Geological Survey - National Geoscience Information Service	October 2015	As notified
Brine Compensation Area Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011	Not Applicable
Coal Mining Affected Areas The Coal Authority - Property Searches	March 2014	As notified
Mining Instability Ove Arup & Partners	October 2000	Not Applicable
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	July 2011	As notified
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	July 2011	As notified

Data Currency

Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	October 2016	Quarterly
Fuel Station Entries Catalist Ltd - Experian	July 2016	Quarterly
Gas Pipelines National Grid	July 2014	Quarterly
Points of Interest - Commercial Services PointX	September 2016	Quarterly
Points of Interest - Education and Health PointX	September 2016	Quarterly
Points of Interest - Manufacturing and Production PointX	September 2016	Quarterly
Points of Interest - Public Infrastructure PointX	September 2016	Quarterly
Points of Interest - Recreational and Environmental PointX	September 2016	Quarterly
Underground Electrical Cables National Grid	January 2016	Bi-Annually

Data Currency

Sensitive Land Use	Version	Update Cycle
Ancient Woodland		
Natural England	August 2016	Bi-Annually
Areas of Adopted Green Belt		
Dartford Borough Council	November 2016	As notified
Gravesham Borough Council	November 2016	As notified
Thurrock Borough Council - Development Control	November 2016	As notified
Areas of Unadopted Green Belt		
Dartford Borough Council	November 2016	As notified
Gravesham Borough Council	November 2016	As notified
Thurrock Borough Council - Development Control	November 2016	As notified
Areas of Outstanding Natural Beauty		
Natural England	September 2016	Bi-Annually
Environmentally Sensitive Areas		
Natural England	September 2016	Annually
Forest Parks		
Forestry Commission	April 1997	Not Applicable
Local Nature Reserves		
Natural England	September 2016	Bi-Annually
Marine Nature Reserves		
Natural England	September 2016	Bi-Annually
National Nature Reserves		
Natural England	September 2016	Bi-Annually
National Parks		
Natural England	August 2016	Bi-Annually
Nitrate Sensitive Areas		
Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	April 2016	Not Applicable
Nitrate Vulnerable Zones		
Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	October 2015	Annually
Ramsar Sites		
Natural England	April 2016	Bi-Annually
Sites of Special Scientific Interest		
Natural England	April 2016	Bi-Annually
Special Areas of Conservation		
Natural England	September 2016	Bi-Annually
Special Protection Areas		
Natural England	September 2016	Bi-Annually
World Heritage Sites		
English Heritage - National Monument Record Centre	September 2015	Bi-Annually

Data Suppliers

A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo
Ordnance Survey	
Environment Agency	
Scottish Environment Protection Agency	
The Coal Authority	
British Geological Survey	
Centre for Ecology and Hydrology	
Natural Resources Wales	
Scottish Natural Heritage	
Natural England	
Public Health England	
Ove Arup	
Peter Brett Associates	

Useful Contacts

Contact	Name and Address	Contact Details
2	**British Geological Survey - Enquiry Service** British Geological Survey, Kingsley Dunham Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
3	**Environment Agency - National Customer Contact Centre (NCCC)** PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
4	**Thurrock Borough Council - Environmental Health Department** Civic Offices, New Road, Grays, Essex, RM17 6SL	Telephone: 01375 390000 Fax: 01375 652359 Website: www.thurrock.gov.uk
5	**Thurrock Borough Council - Development Control** Civic Offices, New Road, Grays, Essex, RM17 6SL	Telephone: 01375 390000 Fax: 01375 652359 Website: www.thurrock.gov.uk
6	**PointX** 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Website: www.pointx.co.uk
7	**Natural England** County Hall, Spetchley Road, Worcester, WR5 2NP	Telephone: 0300 060 3900 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.uk
8	**Environment Agency - Head Office** Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol, Avon, BS32 4UD	Telephone: 01454 624400 Fax: 01454 624409
-	**Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards** Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	**Landmark Information Group Limited** Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

Please note that the Environment Agency / Natural Resources Wales / SEPA have a charging policy in place for enquiries.

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Envirocheck® Report:

Mining and Ground Stability Datasheet

Order Details:

Order Number:
107251247_1_1

Customer Reference:
5153187- 211 Tilbury Power Station

National Grid Reference:
564370, 176730

Slice:
C

Site Area (Ha):
81.8

Search Buffer (m):
1000

Site Details:

Gravesend

Client Details:

Ms T Radford
Atkins Ltd
The Wells
3-13 Church Street
Epsom
Surrey
KT17 4PF

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Contents

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Report Version v50.0

Contents

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Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m
Mining and Natural Cavities Data					
BGS Recorded Mineral Sites					
Coal Mining Affected Areas			n/a	n/a	n/a
Man Made Mining Cavities					
Mining Instability			n/a	n/a	n/a
Natural Cavities					
Non Coal Mining Areas of Great Britain				n/a	n/a
Potential Mining Areas					
Historical Land Use Information (1:2,500)					
Extractive Industries or Potential Excavations from 1855-1909 (100m)				n/a	n/a
Extractive Industries or Potential Excavations from 1893-1915 (100m)				n/a	n/a
Extractive Industries or Potential Excavations from 1906-1937 (100m)				n/a	n/a
Extractive Industries or Potential Excavations from 1924-1949 (100m)				n/a	n/a
Extractive Industries or Potential Excavations from 1950-1980 (100m)				n/a	n/a
Subterranean Features (100m)				n/a	n/a
Historical Land Use Information (1:10,000)					
Air Shafts					
Disturbed Ground					
General Quarrying					
Heap, unknown constituents					
Mineral Railway					
Mining & quarrying general					
Mining of coal & lignite					
Quarrying of sand & clay, operation of sand & gravel pits					
Former Marshes	pg 1				1
Potentially Infilled Land (Non-Water)					
Potentially Infilled Land (Water)	pg 1		4	3	11

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Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m
Ground Stability Data (1:50,000)					
Brine Compensation Area			n/a	n/a	n/a
Brine Pumping Related Features					
Brine Subsidence Solution Area					
Potential for Collapsible Ground Stability Hazards	pg 2	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 2	Yes	Yes	n/a	n/a
Potential for Ground Dissolution Stability Hazards	pg 2	Yes		n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 2	Yes		n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 3	Yes		n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 3	Yes		n/a	n/a
Salt Mining Related Features					
Subsidence Insurance Claims				n/a	n/a
Subsidence Investigations	pg 3		2	n/a	n/a
Motion Map Data (1:2,500)					
Motion Map (100m)				n/a	n/a

Report Version v50.0

Historical Land Use Information (1:10,000)

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	**Former Marshes** Use: Former Marsh Date of Mapping: 1923	C3NE (N)	947	-	564434 176879
2	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1923	C4SE (E)	80	-	564840 176539
3	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1923	C4SW (SE)	148	-	564666 176427
4	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1923	C4SW (SE)	166	-	564655 176530
5	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1923	C4SW (SE)	171	-	564514 176525
6	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1923	C4SE (SE)	293	-	564839 176447
7	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1923	C4SW (SE)	394	-	564674 176532
8	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1923	C3SE (S)	417	-	564365 176521
9	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1923	C4NW (E)	587	-	564544 176709
10	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1898	C4NW (E)	637	-	564537 176708
11	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1923	C3NE (E)	654	-	564472 176722
12	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1923	C3NE (W)	680	-	564287 176737
13	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1923	C4NW (NE)	702	-	564555 176811
14	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1961	C8SE (NE)	781	-	565012 177273
15	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1923	C3NE (N)	884	-	564387 176834
16	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	C3NE (NW)	889	-	564189 176844
17	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1923	C3NE (N)	912	-	564376 176837
18	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1923	C3NE (N)	948	-	564353 176966
19	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1923	C7SE (N)	990	-	564408 177062

Ground Stability Data (1:50,000)

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Brine Compensation Area The site does not fall within the brine compensation area.				
	Brine Subsidence Solution Area The site does not fall within the brine subsidence solution area.				
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C4NE (E)	0	2	565000 176727
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C3NE (NW)	0	2	564374 176727
20	**Potential for Compressible Ground Stability Hazards** Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	(E)	0	2	565633 176528
21	**Potential for Compressible Ground Stability Hazards** Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	(SE)	0	2	565639 176065
22	**Potential for Compressible Ground Stability Hazards** Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	C3NE (NW)	0	2	564374 176727
23	**Potential for Compressible Ground Stability Hazards** Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	C4NE (E)	0	2	565000 176727
24	**Potential for Compressible Ground Stability Hazards** Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	(SW)	0	2	563891 176160
25	**Potential for Compressible Ground Stability Hazards** Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	(SE)	0	2	565000 176174
26	**Potential for Compressible Ground Stability Hazards** Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	(SE)	0	2	564789 176023
27	**Potential for Compressible Ground Stability Hazards** Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	(SE)	0	2	565000 176148
28	**Potential for Compressible Ground Stability Hazards** Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	(E)	0	2	565629 176356
29	**Potential for Compressible Ground Stability Hazards** Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	(E)	0	2	565555 176380
30	**Potential for Compressible Ground Stability Hazards** Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	(E)	0	2	565343 176360
31	**Potential for Compressible Ground Stability Hazards** Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	(S)	126	2	564473 176066
32	**Potential for Compressible Ground Stability Hazards** Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	(SW)	185	2	563619 176222
33	**Potential for Compressible Ground Stability Hazards** Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	(S)	202	2	564024 175649
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C3NE (NW)	0	2	564374 176727
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C4NE (E)	0	2	565000 176727
34	**Potential for Landslide Ground Stability Hazards** Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	C3NE (NW)	0	2	564374 176727

Ground Stability Data (1:50,000)

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
35	**Potential for Landslide Ground Stability Hazards** Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	C4NE (E)	0	2	565000 176727
36	**Potential for Running Sand Ground Stability Hazards** Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	C3NE (NW)	0	2	564374 176727
37	**Potential for Running Sand Ground Stability Hazards** Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	C4NE (E)	0	2	565000 176727
38	**Potential for Shrinking or Swelling Clay Ground Stability Hazards** Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	C3NE (NW)	0	2	564374 176727
39	**Potential for Shrinking or Swelling Clay Ground Stability Hazards** Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	C4NE (E)	0	2	565000 176727
	Subsidence Investigations Site Investigation Date: 13th February 2001 Root Survey: No CCTV Drain Survey: Yes Depth of Foundation Footing: Not Supplied Soil Classification: Not Supplied			-	
	Subsidence Investigations Site Investigation Date: 19th June 2004 Root Survey: No CCTV Drain Survey: No Depth of Foundation Footing: Not Supplied Soil Classification: Not Supplied			-	

Historical Map List

No Historical Land Use information available.

The following mapping has been analysed for Historical Land Use Information (1:10,000):

1:10,560	Mapsheet	Published Date
Kent	003A_00	1869
Kent	010_00	1869
Essex	083_00	1873
Essex	084_00	1873
Essex	083_SE	1898
Essex	084_SW	1898
Kent	003A_SW	1899
Kent	010_NE	1899
Kent	010_NE	1909
Kent	003A_SW	1910
Essex	095_NE	1923
Essex	095_SE	1923
Kent	003A_SW	1938
Kent	010_NE	1938
Essex	095_NE	1938
Essex	095_SE	1938
Ordnance Survey Plan	TQ67NE	1961
Ordnance Survey Plan	TQ67NW	1961
1:10,000	**Mapsheet**	**Published Date**
Ordnance Survey Plan	TQ67NE	1991
Ordnance Survey Plan	TQ67NW	1994

Data Currency

Mining and Cavities Data	Version	Update Cycle
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	October 2016	Bi-Annually
Coal Mining Affected Areas The Coal Authority - Property Searches	March 2014	As notified
Man Made Mining Cavities Peter Brett Associates	November 2016	Bi-Annually
Mining Instability Ove Arup & Partners	October 2000	Not Applicable
Natural Cavities Peter Brett Associates	November 2016	Bi-Annually
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
Historical Land Use Information (1:2,500)	**Version**	**Update Cycle**
Subterranean Features Landmark Information Group Limited	September 2016	Bi-Annually
Ground Stability Data (1:50,000)	**Version**	**Update Cycle**
Brine Compensation Area Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Subsidence Insurance Claims SP Property Services	November 2016	Quarterly
Subsidence Investigations CET Structures Ltd	November 2016	Quarterly

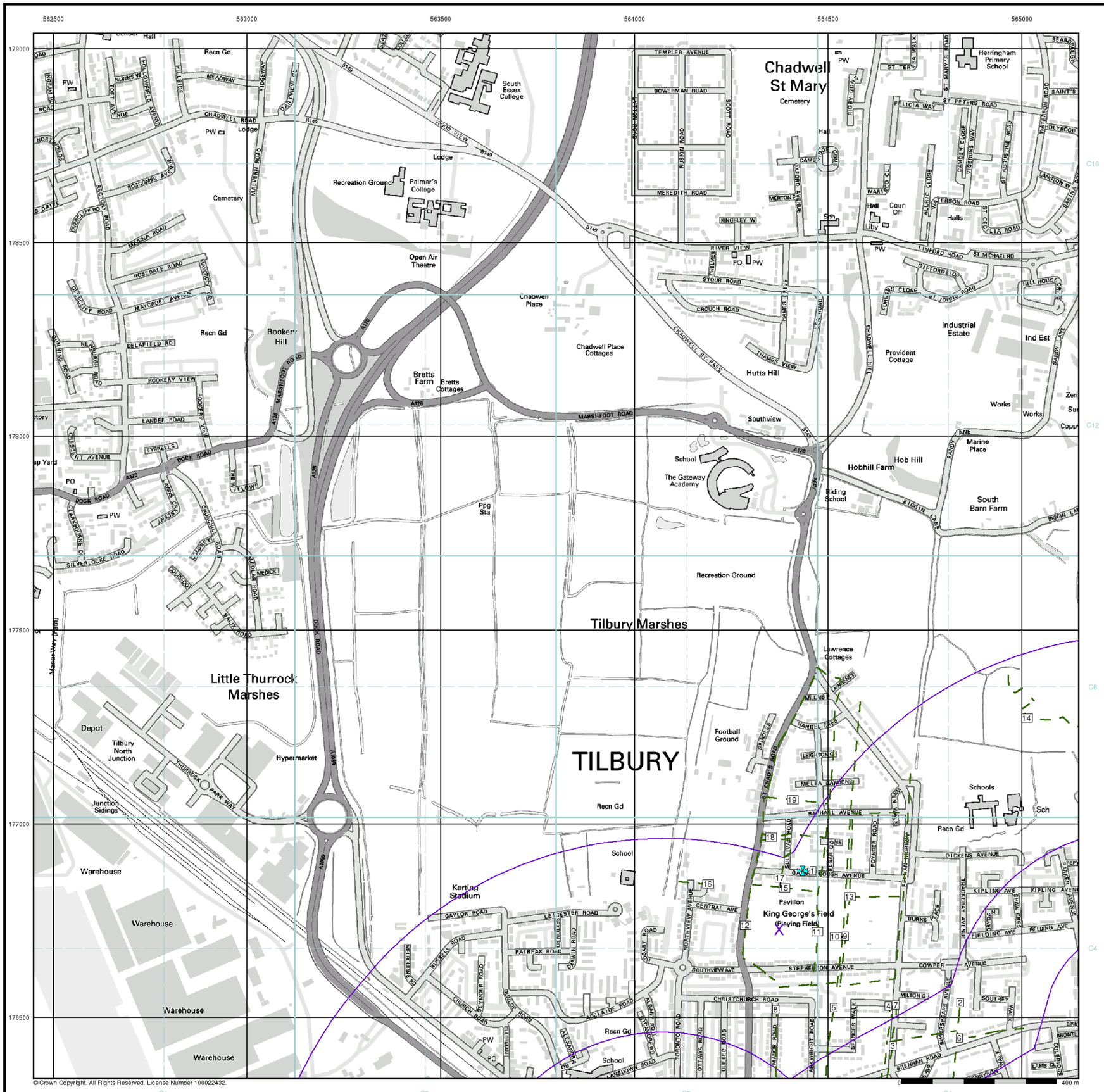
Data Suppliers

A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo
Ordnance Survey	Map data
British Geological Survey	British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL
The Coal Authority	THE COAL AUTHORITY
Ove Arup	ARUP
Peter Brett Associates	pba peterbrett
Wardell Armstrong	wardell armstrong your earth our world
Johnson Poole & Bloomer	JPB

Useful Contacts

Contact	Name and Address	Contact Details
1	**Ove Arup & Partners** Central Square, Forth Street, Newcastle upon Tyne, Tyne and Wear, NE1 3PL	Telephone: 0191 261 6080 Fax: 0191 261 7879
2	**British Geological Survey - Enquiry Service** British Geological Survey, Kingsley Dunham Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
-	**Landmark Information Group Limited** Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk



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Historical Land Use Information (1:10,000)

General

Specified Site | Specified Buffer(s) | Bearing Reference Point | Map ID

Several of Type at Location

Potentially Contaminative Industrial Uses (Past Land Uses - Mining)

	Point	Line	Polygon
Air Shafts	◆		
Disturbed Ground	◆		
General Quarrying	◆		
Heap, unknown constituents	◆		
Mineral Railway	◆		
Mining and Quarrying General	◆		
Mining of Coal & Lignite	◆		
Quarrying of Sand and Clay, Operation of Sand and Gravel Pits	◆		

Historical Land Use

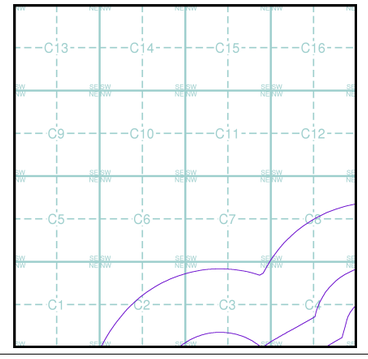
	Point	Line	Polygon
Potentially Infilled Land (Non-Water)	●		
Potentially Infilled Land (Water)	●		
Former Marsh	✠		

Mining Data

Potential Mining Area

BGS Recorded Mineral Site

Mining and Ground Stability - Slice C



Order Details

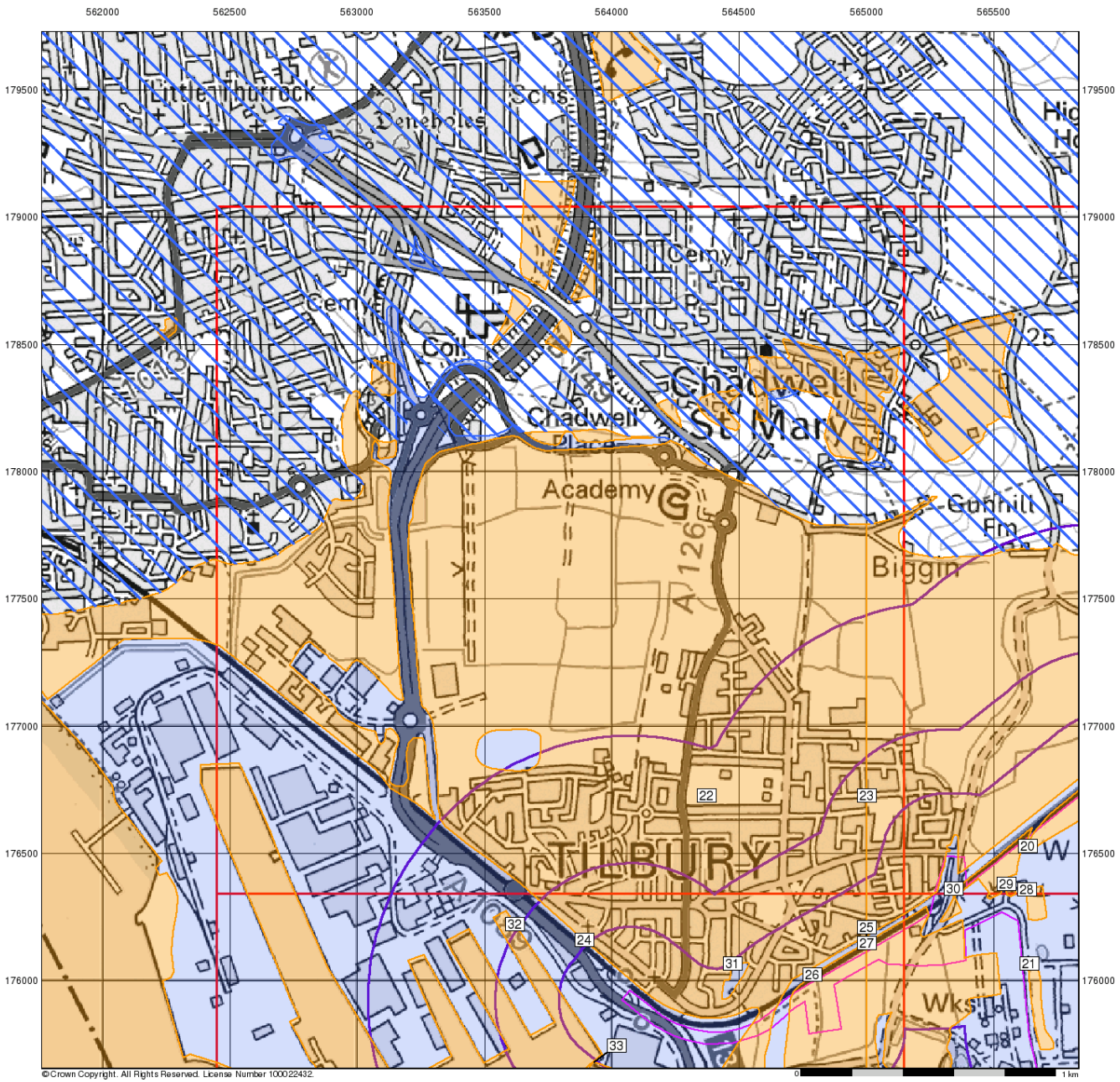
Order Number:	107251247_1_1
Customer Ref:	5153187- 211 Tilbury Power Station
National Grid Reference:	564370, 176730
Slice:	C
Site Area (Ha):	81.8
Search Buffer (m):	1000

Site Details

Gravesend

Landmark INFORMATION GROUP

Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



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Ground Stability Data (1:50,000)

General

Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

Potential for Compressible Ground Stability Hazards

High | Low | Moderate | Very Low

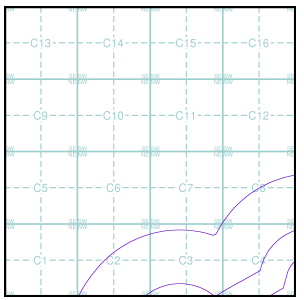
Potential for Collapsible Ground Stability Hazards

High | Low | Moderate | Very Low

Brine Pumping and Salt Mining

	Point	Polygon
Brine Pumping Related Feature	▲	▨
Salt Mining Related Feature	▲	▨

Mining and Ground Stability - Slice C



Order Details

Order Number:	107251247_1_1
Customer Ref:	5153187- 211 Tilbury Power Station
National Grid Reference:	564370, 176730
Slice:	C
Site Area (Ha):	81.8
Search Buffer (m):	1000

Site Details

Gravesend

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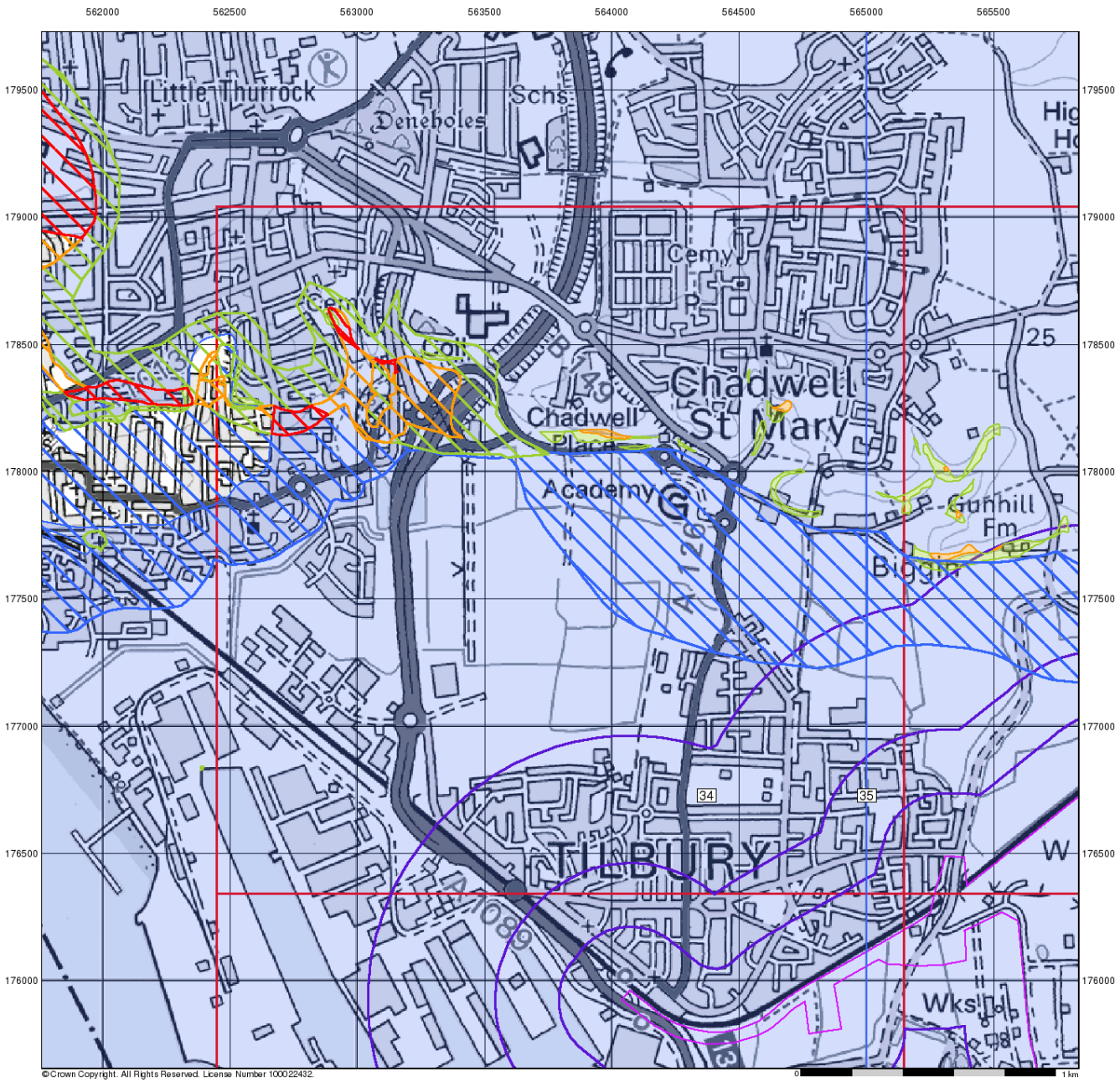
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



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Ground Stability Data (1:50,000)

General

Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

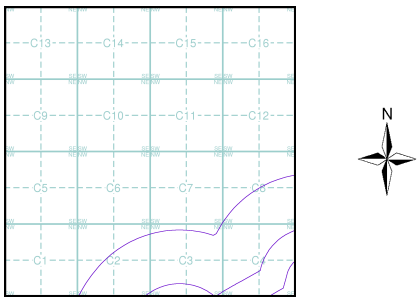
Potential for Landslide Ground Stability Hazards

High | Low | Moderate | Very Low

Potential for Ground Dissolution Stability Hazards

High | Low | Moderate | Very Low

Mining and Ground Stability - Slice C



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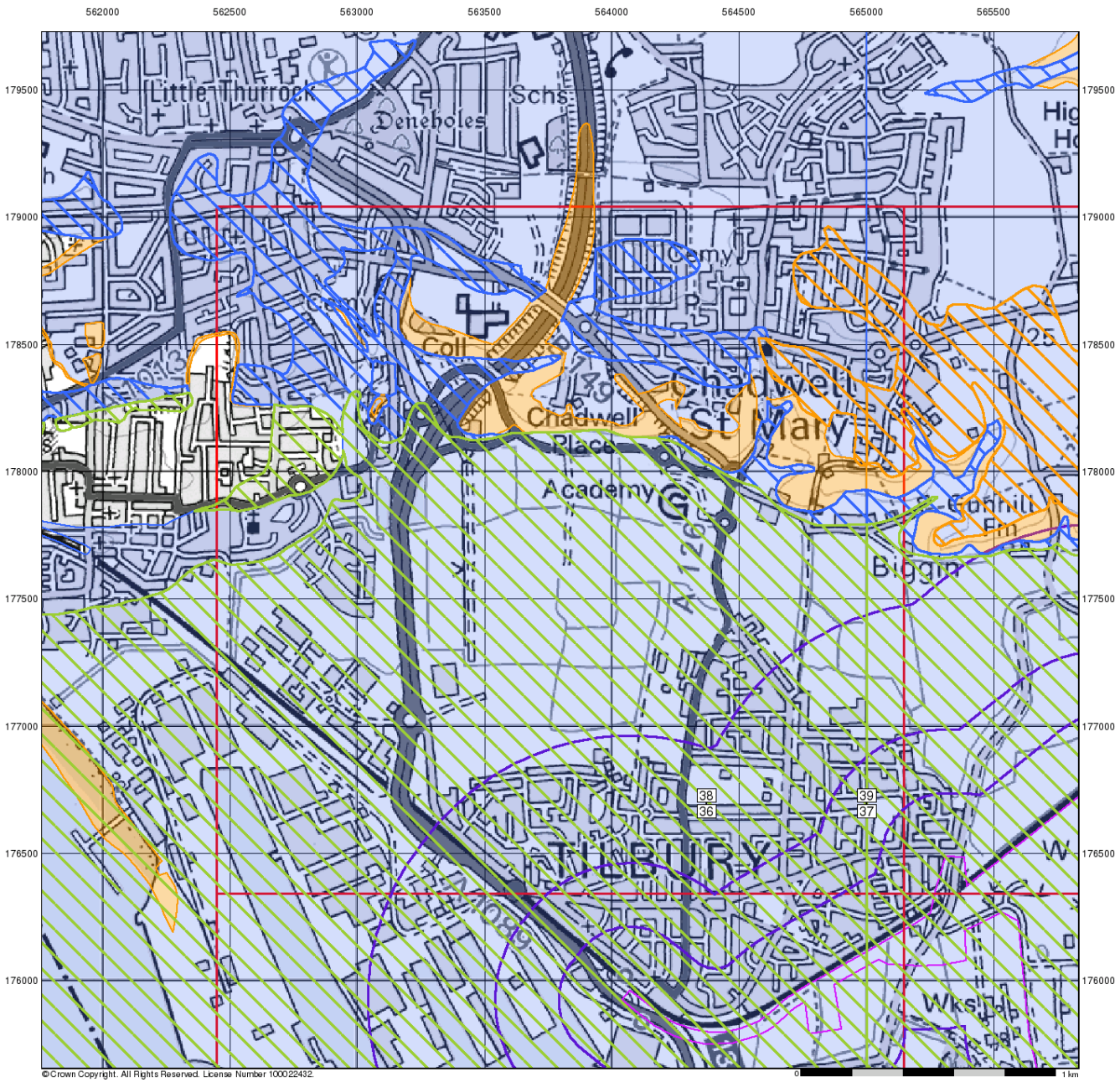

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Ground Stability Data (1:50,000)

General

Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

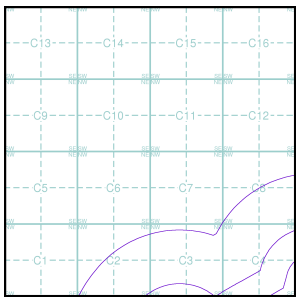
Potential for Running Sand Ground Stability Hazards

High | Low | Moderate | Very Low

Potential for Shrinking or Swelling Clay Ground Stability Hazards

High | Low | Moderate | Very Low

Mining and Ground Stability - Slice C



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Envirocheck® Report:

Historical Data Report Datasheet

Order Details:

Order Number:
107251247_1_1

Customer Reference:
5153187- 211 Tilbury Power Station

National Grid Reference:
564370, 176730

Slice:
C

Site Area (Ha):
81.8

Search Buffer (m):
1000

Site Details:

Gravesend

Client Details:

Ms T Radford
Atkins Ltd
The Wells
3-13 Church Street
Epsom
Surrey
KT17 4PF

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Contents

Introduction

The Environment Act 1995 has made site sensitivity a key issue, as the legislation pays as much attention to the pathways by which contamination could spread, and to the vulnerable targets of contamination, as it does the potential sources of contamination.
For this reason, Landmark's Site Sensitivity maps and Datasheet(s) place great emphasis on statutory data provided by the Environment Agency and the Scottish Environment Protection Agency; it also incorporates data from Natural England (and the Scottish and Welsh equivalents) and Local Authorities; and highlights hydrogeological features required by environmental and geotechnical consultants. It does not include any information concerning past uses of land. The datasheet is produced by querying the Landmark database to a distance defined by the client from a site boundary provided by the client.

In the attached datasheet the National Grid References (NGRs) are rounded to the nearest 10m in accordance with Landmark's agreements with a number of Data Suppliers.

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Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m
Historical Building Plans Information					
Areas Cleared Due To Enemy Action					
Above Ground Fuel Tanks (100m)				n/a	n/a
Asbestos (100m)				n/a	n/a
Benzene/Benzole/Naphtha, Naphthalene/Kerosene (100m)				n/a	n/a
Electricity Generation (100m)				n/a	n/a
Electricity Sub-Stations (100m)				n/a	n/a
Gas Industry (100m)				n/a	n/a
Gas Storage (100m)				n/a	n/a
Gas Use (100m)				n/a	n/a
Oil Industry (100m)				n/a	n/a
Oil Storage (100m)				n/a	n/a
Oil Use (100m)				n/a	n/a
Paint based Oils (100m)				n/a	n/a
Paraffin (100m)				n/a	n/a
Petrol and Diesel Industry (100m)				n/a	n/a
Petrol and Diesel Storage (100m)				n/a	n/a
Petrol and Diesel Use (100m)				n/a	n/a
Potential Fuel Gas (100m)				n/a	n/a
Potential Fuel Oil (100m)				n/a	n/a
Potential Fuel Use (100m)				n/a	n/a
Potential Petrol and Diesel (100m)				n/a	n/a
Potential Tanks (100m)				n/a	n/a
Potentially Fuel-related Tanks (100m)				n/a	n/a
Underground Fuel Tanks (100m)				n/a	n/a
Historical Land Use Information					
Former Marshes	pg 1				1
Historical Flood Liabilities					
Potentially Contaminative Industrial Uses (Past Land Use)	pg 1	2	1		1
Potentially Infilled Land (Non-Water)					
Potentially Infilled Land (Water)	pg 1		4	3	11

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Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m
Historical Tanks and Energy Facilities					
Electrical Sub Station Facilities (100m)				n/a	n/a
Electricity Industry Facilities (100m)				n/a	n/a
Gas Industry Facilities (100m)				n/a	n/a
Gas Monitoring Facilities (100m)				n/a	n/a
Miscellaneous Power Facilities (100m)				n/a	n/a
Oil Industry Facilities (100m)				n/a	n/a
Petroleum Storage Facilities (100m)				n/a	n/a
Potential Tanks (100m)				n/a	n/a
Tanks (100m)				n/a	n/a

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Historical Land Use Information

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	**Former Marshes** Use: Former Marsh Date of Mapping: 1923	C3NE (N)	947	1	564434 176879
2	**Potentially Contaminative Industrial Uses (Past Land Use)** Use: Railways Date of Mapping: 1872 - 1961	(SW)	0	1	563871 176143
3	**Potentially Contaminative Industrial Uses (Past Land Use)** Use: Transport support & cargo handling Date of Mapping: 1994	(SW)	0	1	563966 176001
4	**Potentially Contaminative Industrial Uses (Past Land Use)** Use: Transport support & cargo handling Date of Mapping: 1899 - 1961	(SW)	9	1	563821 176154
5	**Potentially Contaminative Industrial Uses (Past Land Use)** Use: Factory or works - use not specified Date of Mapping: 1994	(SW)	682	1	563494 176329
6	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1923	C4SE (E)	80	1	564840 176539
7	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1923	C4SW (SE)	148	1	564666 176427
8	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1923	C4SW (SE)	166	1	564655 176530
9	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1923	C4SW (SE)	171	1	564514 176525
10	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1923	C4SE (SE)	293	1	564839 176447
11	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1923	C4SW (SE)	394	1	564674 176532
12	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1923	C3SE (S)	417	1	564365 176521
13	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1923	C4NW (E)	587	1	564544 176709
14	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1898	C4NW (E)	637	1	564537 176708
15	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1923	C3NE (E)	654	1	564472 176722
16	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1923	C3NE (W)	680	1	564287 176737
17	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1923	C4NW (NE)	702	1	564555 176811
18	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1961	C8SE (NE)	781	1	565012 177273
19	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1923	C3NE (N)	884	1	564387 176834
20	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	C3NE (NW)	889	1	564189 176844
21	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1923	C3NE (N)	912	1	564376 176837

Historical Land Use Information

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
22	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1923	C3NE (N)	948	1	564353 176966
23	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1923	C7SE (N)	990	1	564408 177062

Historical Map List

No Historical Building Plans information available.

The following mapping has been analysed for Historical Land Use Information:

1:10,560	Mapsheet	Published Date
Kent	003A_00	1869
Kent	010_00	1869
Essex	083_00	1873
Essex	084_00	1873
Essex	083_SE	1898
Essex	084_SW	1898
Kent	003A_SW	1899
Kent	010_NE	1899
Kent	010_NE	1909
Kent	003A_SW	1910
Essex	095_NE	1923
Essex	095_SE	1923
Kent	003A_SW	1938
Kent	010_NE	1938
Essex	095_NE	1938
Essex	095_SE	1938
Ordnance Survey Plan	TQ67NE	1961
Ordnance Survey Plan	TQ67NW	1961
1:10,000	**Mapsheet**	**Published Date**
Ordnance Survey Plan	TQ67NE	1991
Ordnance Survey Plan	TQ67NW	1994

No Historical Tanks and Energy Facilities information available.

Useful Contacts and Further Information

Contact	Name and Address	Contact Details
1	**Landmark Information Group Limited** Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9966 Fax: 0844 844 9951 Email: helpdesk@landmark.co.uk Website: www.landmark.co.uk

Historical Building Plans Information

This data set contains potentially contaminative features such as asbestos, petrol, oil and tanks captured from Historical Building Plans. The Historical Building Plans were produced by the London-based firm Charles E. Goad Ltd. as fire insurance plans, dating back to 1885. The firm ceased production of fire insurance plans in 1970. Most of the important towns and cities of the British Isles are covered. Historical Building Plans are usually at the scales of 1:480 (1 inch to 40 feet) for the British Isles. They were updated every 5-6 years by means of revision sheets designed to be pasted on to the original plans.

It should be noted that Historical Building Plans are only available for certain major towns and cities and in some cases there may only be partial coverage of the search area. It cannot therefore be assumed that the absence of responses under the Historical Building Plans section of this report indicates that no hazards exist. Please check the Historical Building Plans Map List table in the Historical Map List section of this report to establish if Historical Building Plans are available for this search area.

Historical Land Use Information

Landmark's Historical Land Use Data is the result of combined analysis of historical map data captured at 1:10,560 and 1:10,000. A unique comprehensive database of Historic Land Use from the 1840's to 1996 it includes 67 different types of potentially contaminated past industrial land use. This entailed analysing over 60,000 maps and is drawn from at least four, and up to six historical map editions. In addition a seventh layer was also created, known as the land use layer, containing areas of infilled land which are plotted via comparison between two or more map editions.

Historical Tanks and Energy Facilities

In addition to HLUD, additional analysis uncovered some of the most dangerous sources of contamination (past and present tanks, petrol storage, oil, gas, electricity, miscellaneous facilities). This data set covers over 390,000 Historical Tanks and Energy facilities in Great Britain and was captured from post war 1:2500 and 1:1250 Ordnance Survey historical mapping covering a period from 1943 to 1996.

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General

Specified Site | Specified Buffer(s) | Bearing Reference Point | Map ID

Several of Type at Location

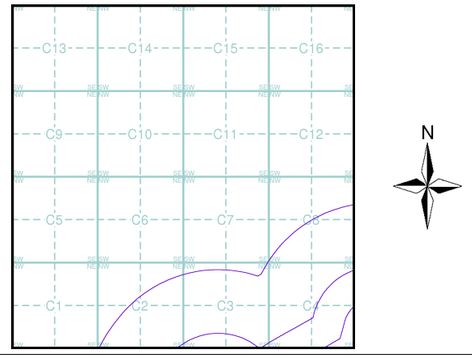
Historical Building Plans

Area Cleared due to Enemy Action

Historical Land Use

- Former Marsh
- Historical Flood Liability
- Historical Flood Liability (Location)
- Potentially Contaminative Industrial Use (Past Land Use)
- Potentially Contaminative Industrial Use (Past Land Use) (Linear)
- Potentially Contaminative Industrial Use (Past Land Use) (Location)
- Potentially Infilled Land (Non-Water)
- Potentially Infilled Land (Non-Water) (Linear)
- Potentially Infilled Land (Non-Water) (Location)
- Potentially Infilled Land (Water)
- Potentially Infilled Land (Water) (Linear)
- Potentially Infilled Land (Water) (Location)

Historical Data Report - Slice Map C



Order Details

Order Number:	107251247_1_1
Customer Ref:	5153187- 211 Tilbury Power Station
National Grid Reference:	564370, 176730
Slice:	C
Site Area (Ha):	81.8
Search Buffer (m):	1000

Site Details

Gravesend

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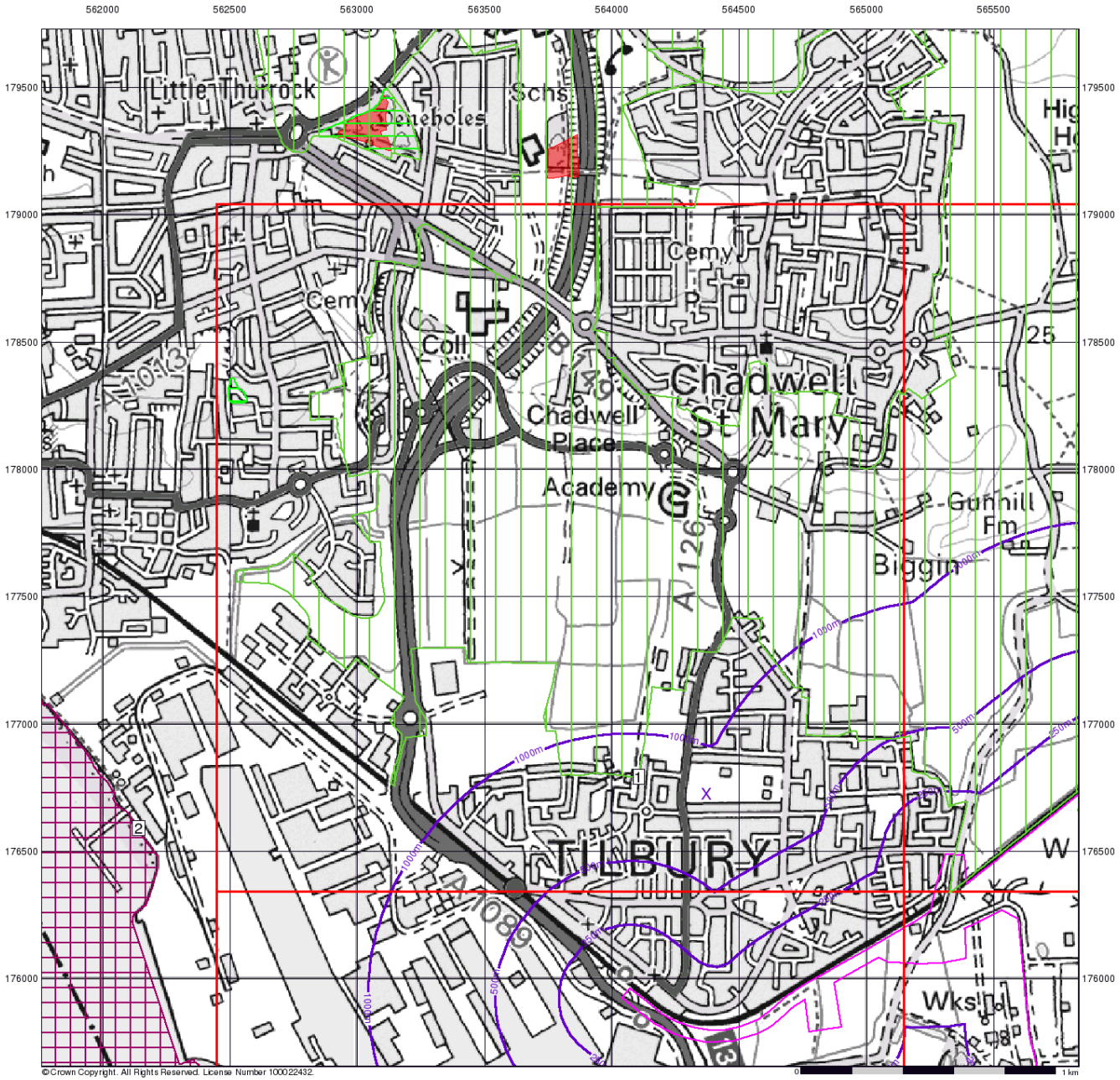
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



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Ecology

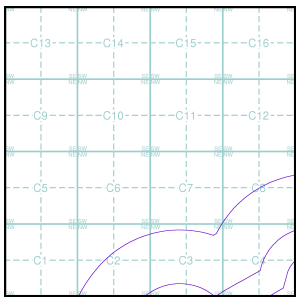
General

Specified Site | Specified Buffer(s) | Bearing Reference Point
Slice | Map ID

Ecology

- Ancient Woodland
- Area of Adopted Green Belt
- Area of Outstanding Natural Beauty
- Area of Unadopted Green Belt
- Country Parks
- Environmentally Sensitive Area
- Forest Park
- Local Nature Reserve
- Marine Nature Reserve
- National Nature Reserve
- National Park
- Nitrate Sensitive Area
- Nitrate Vulnerable Zone
- Ramsar Site
- Site of Special Scientific Interest
- Special Area of Conservation
- Special Protection Area

Ecology - Slice C



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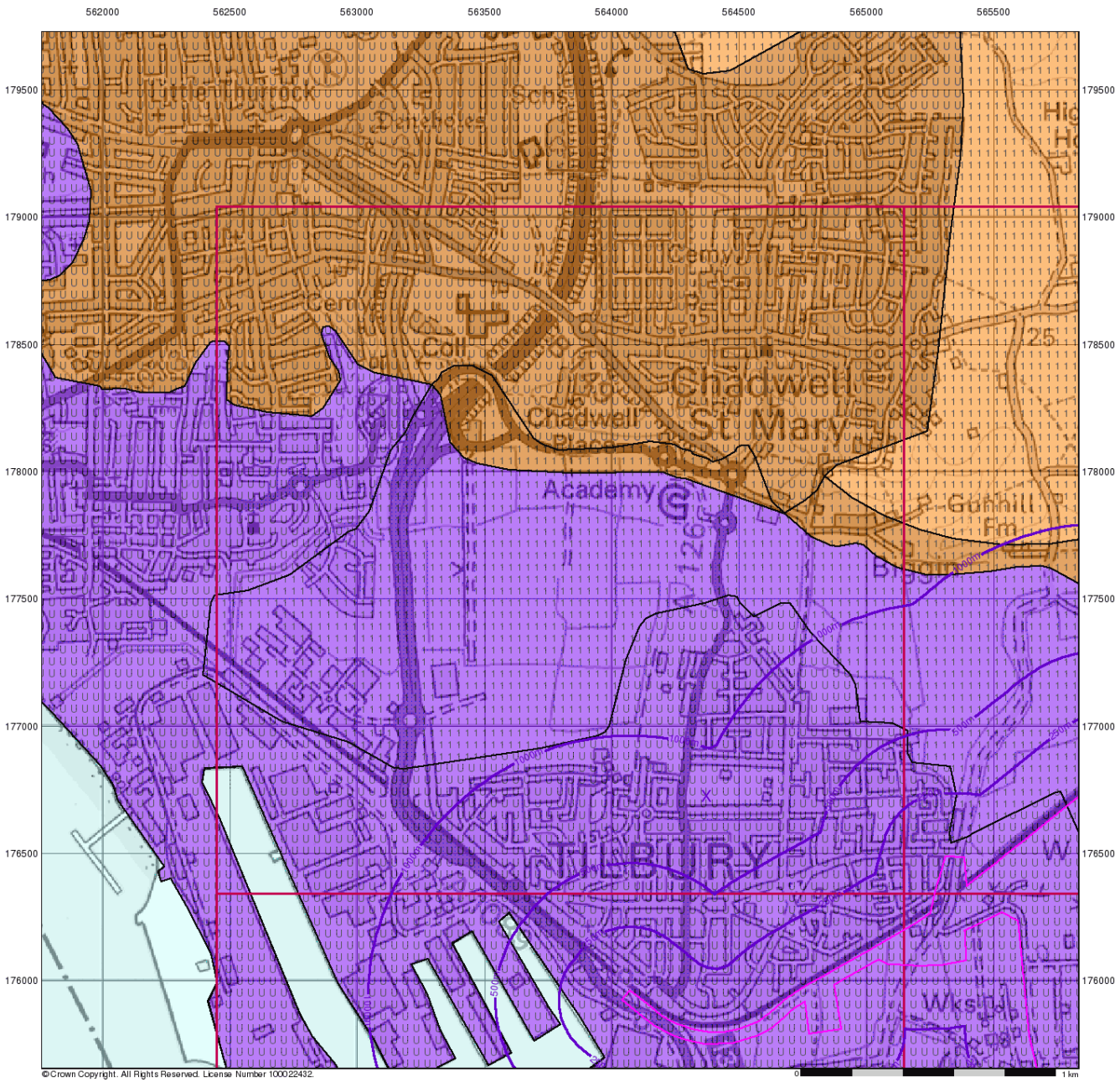

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Water and Hydrology

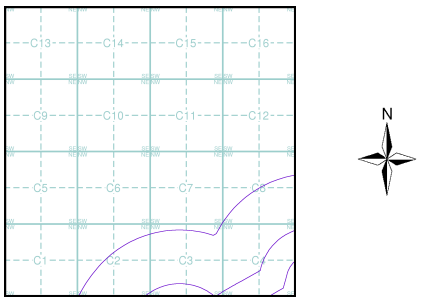
General

Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

Groundwater Vulnerability

Geological Classes	Soil Classes
Major Aquifer (Highly Permeable)	High (H) 1, 2, 3, U
	Intermediate (I) 1, 2
	Low
Minor Aquifer (Variably Permeable)	High (H) 1, 2, 3, U
	Intermediate (I) 1, 2
	Low
Non Aquifer (Negligibly Permeable)	
Water or Sea	
Drift Deposit	

Groundwater Vulnerability - Slice C



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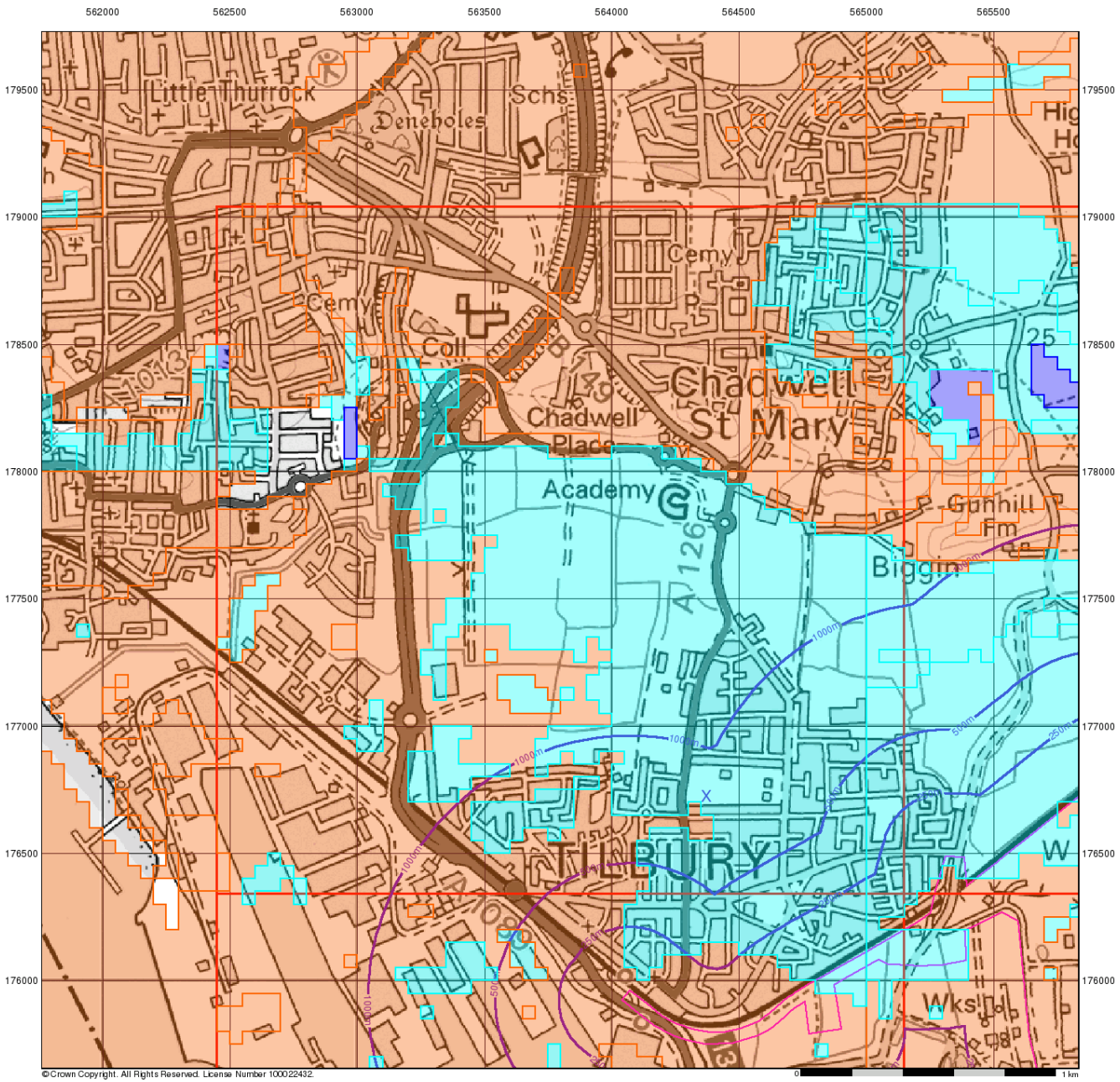

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Water and Hydrology

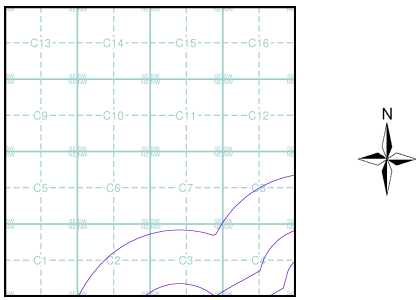
General

Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

Groundwater Flooding Susceptibility

- Potential for Groundwater Flooding to Occur at Surface
- Potential for Groundwater Flooding of Property Situated Below Ground Level
- Limited Potential for Groundwater Flooding to Occur

Groundwater Flooding Susceptibility - Slice C



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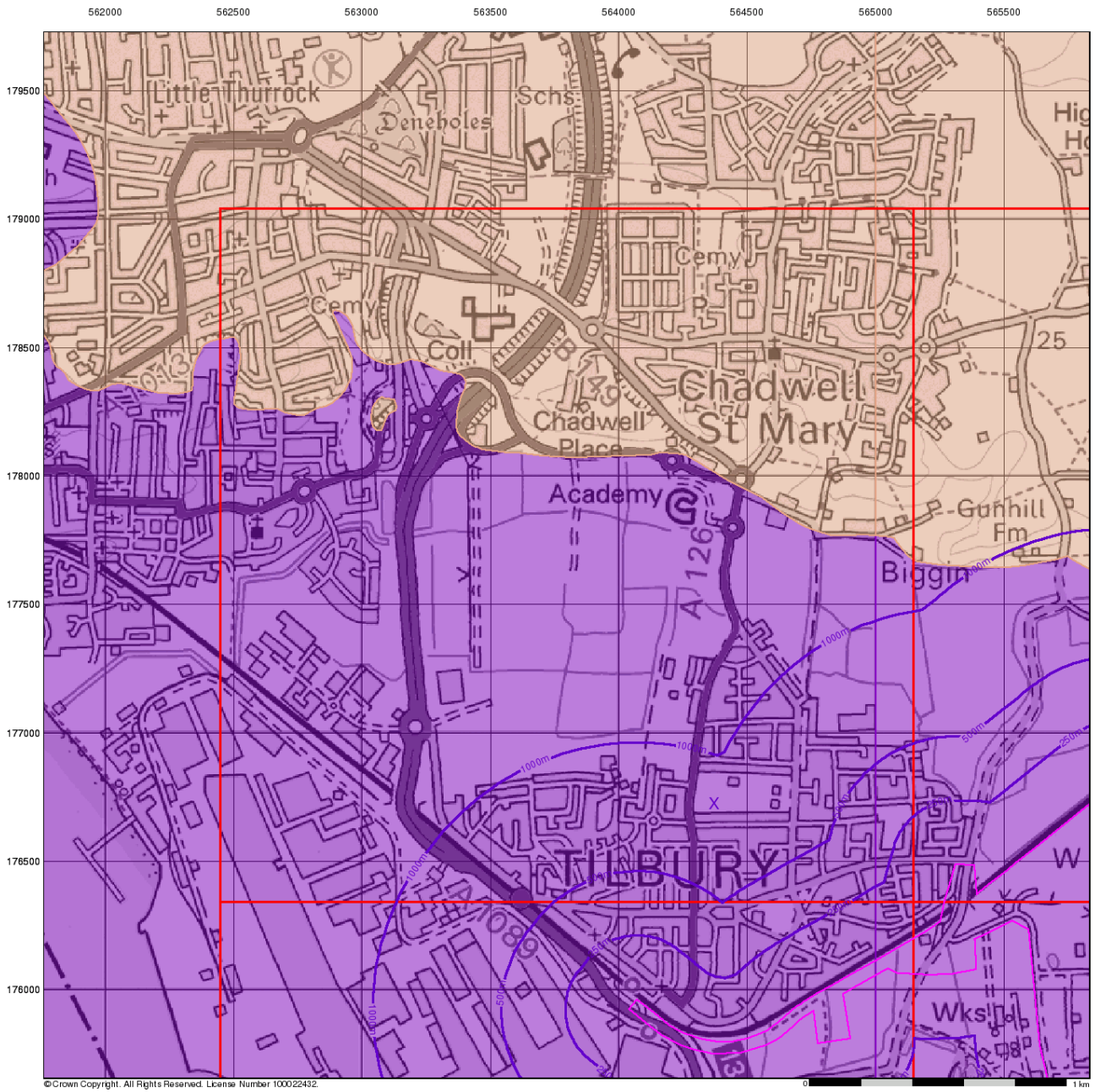

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Water and Hydrology

General

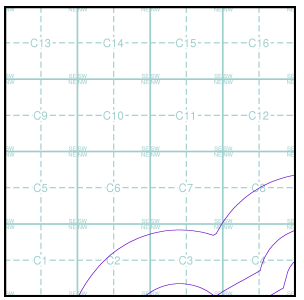
Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

Bedrock Aquifer Designations

Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown

Bedrock Aquifer Designations - Slice C



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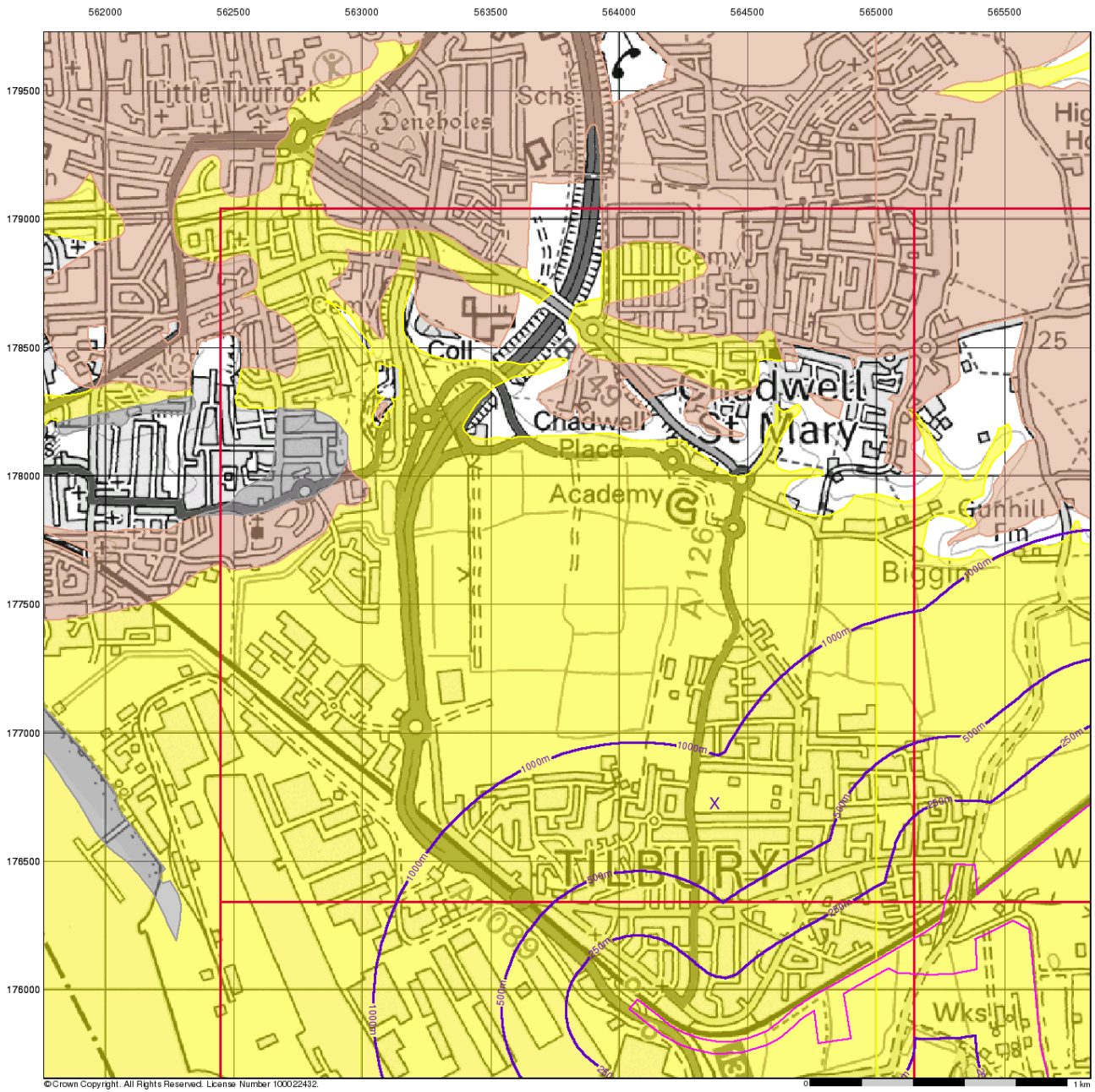

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Water and Hydrology

General

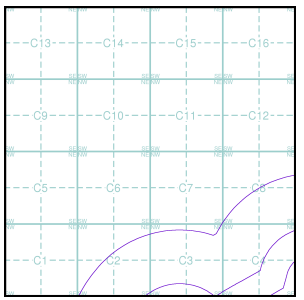
Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

Superficial Aquifer Designations

Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown

Superficial Aquifer Designations - Slice C



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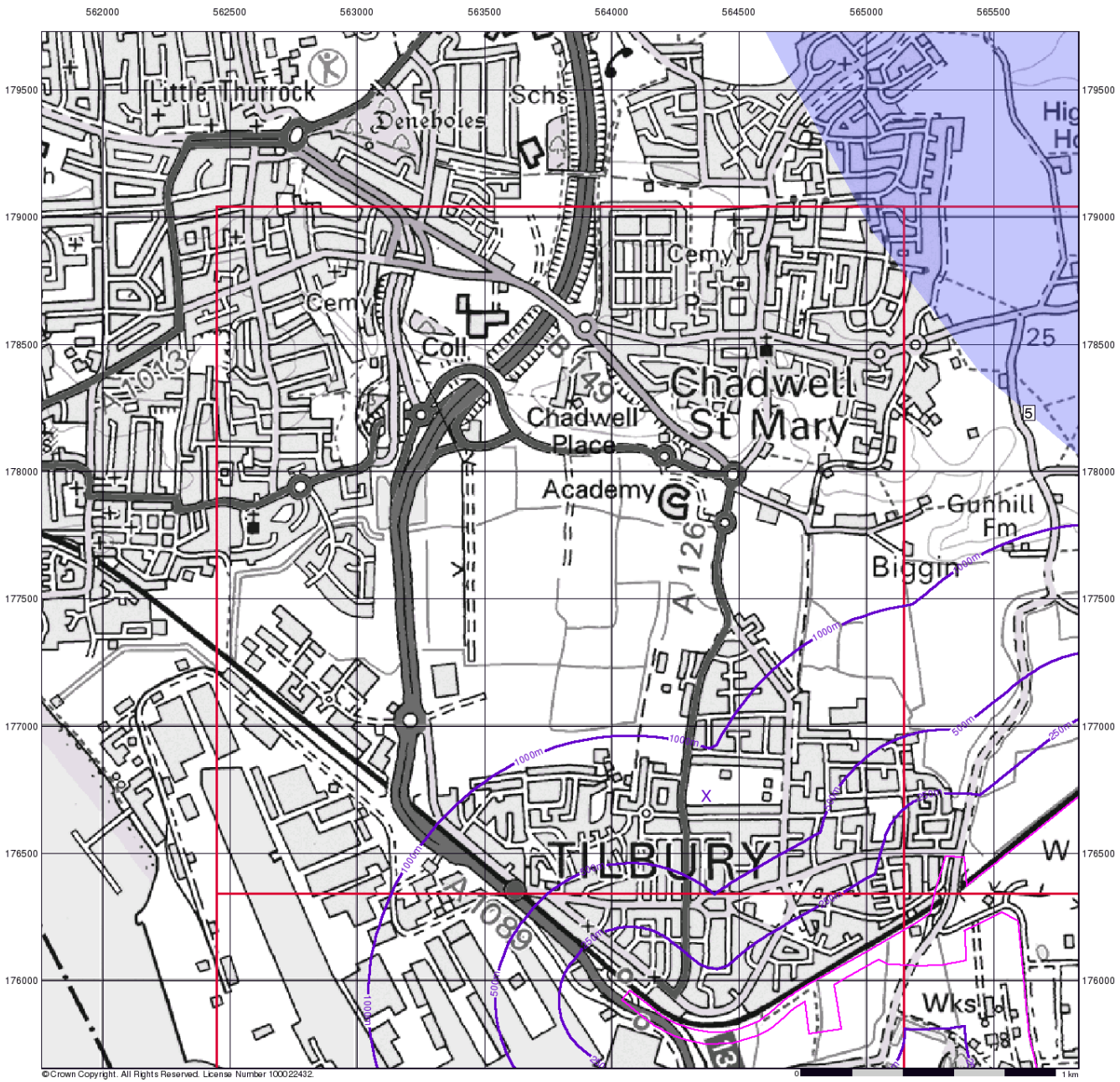

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Water and Hydrology

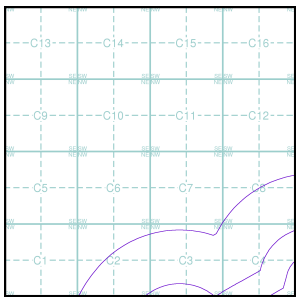
General

Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

Source Protection Zones

- Inner zone (Zone 1)
- Inner zone - subsurface activity only (Zone 1c)
- Outer zone (Zone 2)
- Outer zone - subsurface activity only (Zone 2c)
- Total catchment (Zone 3)
- Total catchment - subsurface activity only (Zone 3c)
- Special interest (Zone 4)
- Source Protection Zone Borehole

Source Protection Zones - Slice C



Order Details

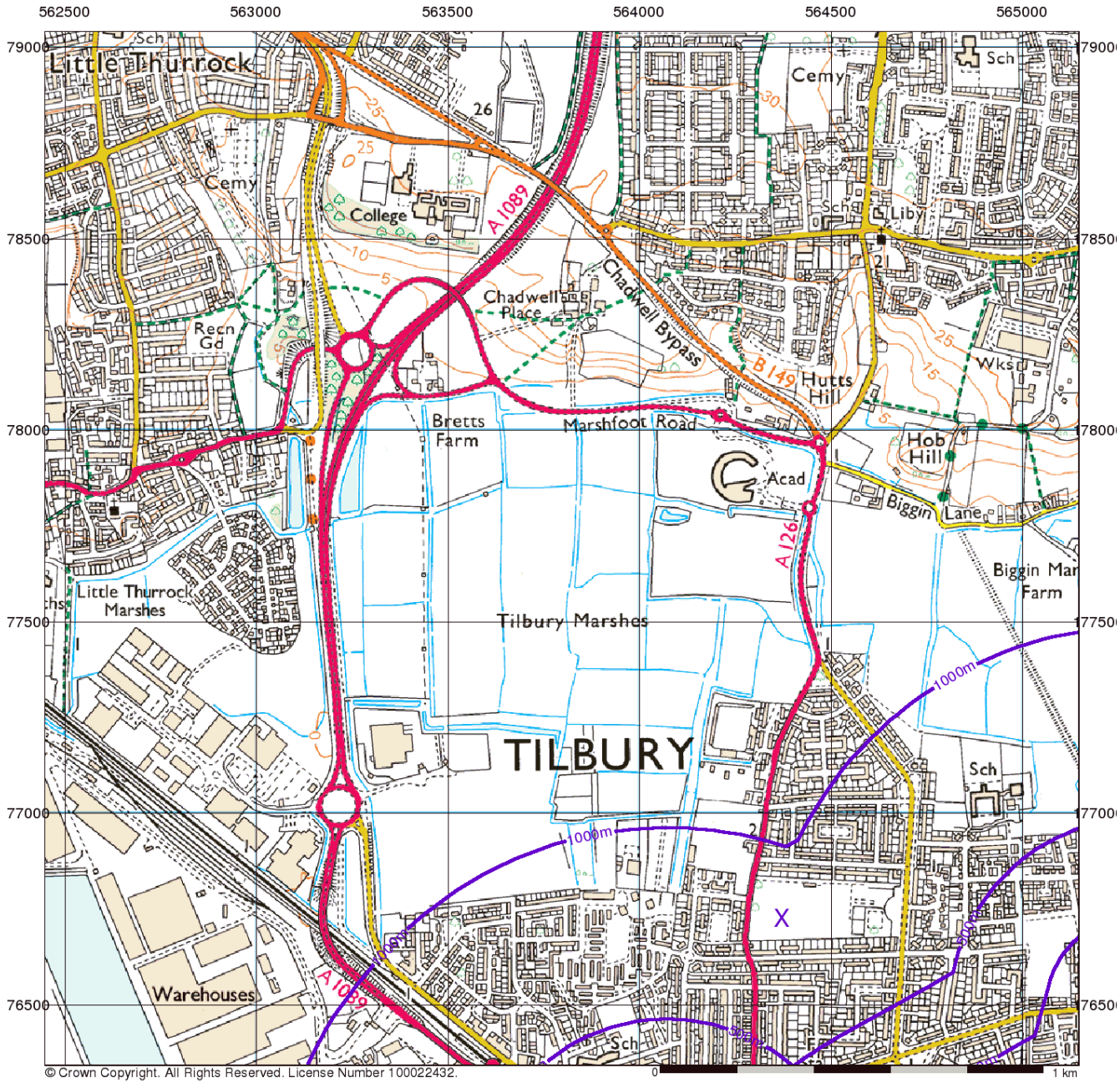
Order Number:	107251247_1_1
Customer Ref:	5153187- 211 Tilbury Power Station
National Grid Reference:	564370, 176730
Slice:	C
Site Area (Ha):	81.8
Search Buffer (m):	1000

Site Details

Gravesend

Landmark® INFORMATION GROUP

Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



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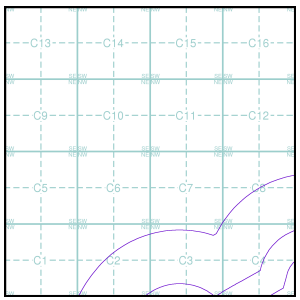
Site Location

General

- Specified Site
- Specified Buffer(s)
- X Bearing Reference Point

Site Location - Slice C



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OS Explorer Map / 1:25 000 Scale Colour Raster

Customer Information

Communications

ROADS AND PATHS

Not necessarily rights of way

Service area

Junction number

M1 or A6(M) — Motorway

A35 — Dual carriageway

A30 — Main road

B3074 — Secondary road

Narrow road with passing places

Road under construction

Road generally more than 4 m wide

Road generally less than 4 m wide

Other road, drive or track, fenced and unfenced

Gradient: steeper than 20% (1 in 5); 14% (1 in 7) to 20% (1 in 5)

Ferry — Ferry; Ferry P - passenger only

Path

RAILWAYS

Multiple track / Single track — standard gauge

Narrow gauge or Light rapid transit system (LRTS) and station

Road over; road under; level crossing

Cutting; tunnel; embankment

Station, open to passengers; siding

PUBLIC RIGHTS OF WAY

(Rights of way are not shown on maps of Scotland)

Footpath

Bridleway

Byway open to all traffic

Restricted byway
(not for use by mechanically propelled vehicles)

Public rights of way shown on this map have been taken from local authority definitive maps and later amendments.
Rights of way are liable to change and may not be clearly defined on the ground.
Please check with the relevant local authority for the latest information

The representation on this map of any other road, track or path is no evidence of the existence of a right of way

OTHER PUBLIC ACCESS

Other routes with public access (not normally shown in urban areas)
The exact nature of the rights on these routes and the existence of any restrictions may be checked with the local highway authority. Alignments are based on the best information available

National Trail / Long Distance Route — Recreational Route

Permissive footpath / Permissive bridleway — Footpaths and bridleways along which landowners have permitted public use but which are not rights of way. The agreement may be withdrawn

Traffic-free cycle route

1 National cycle network route number - traffic free

1 National cycle network route number - on road

Scotland

In Scotland, everyone has access rights in law* over most land and inland water, provided access is exercised responsibly. **This includes walking, cycling, horse-riding and water access, for recreational and educational purposes, and for crossing land or water.** Access rights do not apply to motorised activities, hunting, shooting or fishing, nor if your dog is not under proper control. The **Scottish Outdoor Access Code** is the reference point for responsible behaviour, and can be obtained at **www.outdooraccess-scotland.com** or by phoning your local Scottish Natural Heritage office. *Land Reform (Scotland) Act 2003

National Trust for Scotland, always open / limited opening - observe local signs

Forestry Commission Land / Woodland Trust Land

England & Scotland

DANGER AREA

Firing and test ranges in the area. Danger! Observe warning notices
Champs de tir et d'essai. Danger! Se conformer aux avertissements
Schiess und Erprobungsgelände. Gefahr! Warnschilder beachten
Visit **www.access.mod.uk** for information

ACCESS LAND

England

Portrayal of access land on this map is intended as a guide to land which is normally available for access on foot, for example access land created under the Countryside and Rights of Way Act 2000, and land managed by the National Trust, Forestry Commission and Woodland Trust. Access for other activities may also exist.
Some restrictions will apply; some land will be excluded from open access rights.
The depiction of rights of access does not imply or express any warranty as to its accuracy or completeness. Observe local signs and follow the Countryside Code.
Visit **www.countrysideaccess.gov.uk** for up-to-date information

Access land boundary and tint

Access land in woodland area

Access information point

MANAGED ACCESS

Access permitted within managed controls for example, local byelaws
Visit **www.access.mod.uk** for information

July 2012

General Information

VEGETATION

Limits of vegetation are defined by positioning of symbols

Coniferous trees

Non-coniferous trees

Coppice

Scrub

Bracken, heath or rough grassland

Marsh, reeds or saltings

Orchard

GENERAL FEATURES

+ Place of worship

Current or former place of worship { with tower / with spire, minaret or dome

Building; important building

Glasshouse

Youth hostel

Bunkhouse/camping barn/other hostel

Bus or coach station

Lighthouse; disused lighthouse; beacon

Triangulation pillar; mast

Windmill, with or without sails

Wind pump; wind turbine

pylon pole Electricity transmission line

Slopes

Gravel pit

Sand pit

Other pit or quarry

Landfill site or slag/spoil heap

BP/BS	Boundary post/stone
CG	Cattle grid
CH	Clubhouse
FB	Footbridge
MP ; MS	Milepost ; milestone
Mon	Monument
PO	Post office
Pol Sta	Police station
Sch	School
TH	Town hall
NTL	Normal tidal limit
W; Spr	Well; spring

BOUNDARIES

National

County (England)

Unitary Authority (UA), Metropolitan District (Met Dist), London Borough (LB) or District
(Scotland & Wales are solely Unitary Authorities)

Civil Parish (CP) (England) or Community (C) (Wales)

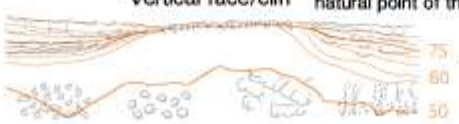
National Park boundary

HEIGHTS AND NATURAL FEATURES

52 · Ground survey height
284 · Air survey height

Surface heights are to the nearest metre above mean sea level. Where two heights are shown, the first height is to the base of the triangulation pillar and the second (in brackets) to the highest natural point of the hill

Vertical face/cliff



Contours may be at 5 or 10 metres vertical interval

Loose rock Boulders Outcrop Scree

Water

Mud

Sand; sand & shingle

ARCHAEOLOGICAL AND HISTORICAL INFORMATION

Site of antiquity

1066 Site of battle (with date)

Visible earthwork

VILLA Roman

Castle Non-Roman

Information provided by English Heritage for England and the Royal Commissions on the Ancient and Historical Monuments for Scotland and Wales

Selected Tourist and Leisure Information

RENSEIGNEMENTS TOURISME ET LOISIRS SÉLECTIONNÉS

Parking / Park & Ride, all year/seasonal
Parking / Parking et navette, ouvert toute l'année/en saison
Parkplatz / Park & Ride, ganzjährig/saisonal

Information centre, all year/seasonal
Office de tourisme, ouvert toute l'année/en saison
Informationsbüro, ganzjährig/saisonal

Visitor centre
Centre pour visiteurs
Besucherzentrum

Forestry Commission visitor centre
Commission Forestière: Centre de visiteurs
Staatsforst Besucherzentrum

PC
Public convenience
Toilettes
Öffentliche Toilette

Telephone, public/roadside assistance/emergency
Téléphone, public/borne d'appel d'urgence/urgence
Telefon, öffentlich/Notrufsäule/Notruf

Camp site / caravan site
Terrain de camping / Terrain pour caravanes
Campingplatz / Wohnwagenplatz

Recreation/leisure/sports centre
Centre de détente/loisirs/sports
Erholungs-/Freizeit-/Sportzentrum

Golf course or links
Terrain de golf
Golfplatz

Theme/pleasure park
Parc à thèmes/Parc d'agrément
Vergnügungs-/Freizeitpark

Preserved railway
Chemin de fer touristique
Museumseisenbahn

Public house/s
Pub/s
Gaststätte/n

Craft centre
Centre artisanal
Zentrum für Kunsthandwerk

AUSGEWAHLTE INFORMATIONEN ZU TOURISTIK UND FREIZEITGESTALTUNG

Walks/trails
Promenades
Wanderwege

Cycle trail
Piste cyclable
Radfahrweg

Mountain bike trail
Chemin pour VTT
Mountainbike-Strecke

Cycle hire
Location de vélos
Fahrradverleih

Horse riding
Equitation
Reitstall

Viewpoint
Point de vue
Aussichtspunkt

Picnic site
Emplacement de pique-nique
Picknickplatz

Country park
Parc naturel
Landschaftspark

Garden/arboretum
Jardin/Arboretum
Garten/Baumgarten

Water activities
Jeux aquatiques
Wassersport

Slipway
Cale
Helling

Boat trips
Croisières en bateau
Bootsfahrten

Boat hire
Location de bateau
Bootsverleih

Nature reserve
Réserve naturelle
Naturschutzgebiet

Fishing
Pêche
Angeln

Other tourist feature
Autre site intéressant
Sonstige Sehenswürdigkeit

Cathedral/Abbey
Cathédrale/Abbaye
Kathedrale/Abtei

Museum
Musée
Museum

Castle/fort
Château/Fortification
Burg/Festung

Building of historic interest
Bâtiment d'intérêt historique
Historisches Gebäude

HC
Heritage centre
Centre d'héritage
Heimatmuseum

National Trust

English Heritage

Historic Scotland

July 2012

Ordnance Survey®

Envirocheck® Report:

Datasheet

Order Details:

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5153187- 211 Tilbury Power Station

National Grid Reference:
564370, 176730

Slice:
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Site Area (Ha):
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Search Buffer (m):
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Site Details:
Gravesend

Client Details:
Ms T Radford
Atkins Ltd
The Wells
3-13 Church Street
Epsom
Surrey
KT17 4PF

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LANDMARK INFORMATION GROUP®

Contents

Introduction

The process of an Environmental Impact Assessment is governed by the Town and Country Planning (Environmental Impact Assessment) Regulations 2011. These regulations apply the EU directive "on the assessment of the effects of certain public and private projects on the environment" (usually referred to as the Environmental Impact Assessment Directive) to the planning system in England.

The aim of the Envirocheck Environmental Impact Assessment Report is to provide the necessary site-specific environmental data required to assess the potential environmental effects of a development. Ultimately this assessment is required by the local planning authority in order to decide whether or not to grant planning permission for a project, so as to protect the environment. The regulations set out a procedure for identifying those projects which should be subject to an Environmental Impact Assessment, and for assessing, consulting and coming to a decision on those projects which are likely to have significant environmental effects.

The datasheet is produced by querying the Landmark database to a distance defined by the client from a site boundary provided by the client.

In the attached datasheet the National Grid References (NGRs) are rounded to the nearest 10m in accordance with Landmark's agreements with a number of Data Suppliers.

Report Version v50.0

Envirocheck®
LANDMARK INFORMATION GROUP®

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m
Ecology					
Ancient Woodland					
Areas of Adopted Green Belt	pg 1	1			
Areas of Outstanding Natural Beauty					
Areas of Unadopted Green Belt					
Country Parks					
Environmentally Sensitive Areas					
Local Nature Reserves					
Marine Nature Reserves	pg 1	1			
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones					
Ramsar Sites					
Sites of Special Scientific Interest					
Special Areas of Conservation					
Special Protection Areas					
Heritage					
Historic Battlefields					
Listed Buildings					
Scheduled Monuments					
World Heritage Sites					
Water & Hydrology					
Areas Benefiting from Flood Defences	pg 2	Yes	Yes	n/a	n/a
BGS Groundwater Flooding Susceptibility	pg 2	Yes	n/a	n/a	n/a
Bedrock Aquifer Designations	pg 2	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 2	Yes	n/a	n/a	n/a
Detailed River Network Lines	pg 2	Yes		n/a	n/a
Detailed River Network Nodes				n/a	n/a
Detailed River Network Offline Drainage				n/a	n/a
Extreme Flooding from Rivers or Sea without Defences	pg 2	Yes	Yes	n/a	n/a
Flooding from Rivers or Sea without Defences	pg 3	Yes		n/a	n/a
Flood Defences				n/a	n/a
Flood Water Storage Areas	pg 3	Yes		n/a	n/a
Groundwater Vulnerability	pg 3	Yes	n/a	n/a	n/a
Drift Deposits	pg 3	Yes	n/a	n/a	n/a
Historic Flood Events	pg 3	Yes		n/a	n/a
Source Protection Zones	pg 3				1

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Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m
Visual and Landscape					
Historic Parks, Gardens and Designed Landscapes					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	**Areas of Adopted Green Belt** Authority: Thurrock Borough Council, Development Control Plan Name: Core Strategy **Status: Adopted** Plan Date: 21st December 2011	C3NW (W)	0	2	564106 176790
2	**Marine Nature Reserves** Name: Thames Estuary Multiple Area: Y Area(m²): 10874320.9 Source: Natural England	(S)	0	1	564643 175247

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Areas Benefiting from Flood Defences Type: Area Benefiting from Flood Defences Boundary Accuracy: As Supplied	C3NE (NW)	0	4	564374 176727
	Areas Benefiting from Flood Defences Type: Area Benefiting from Flood Defences Boundary Accuracy: As Supplied	C3NW (W)	118	4	563875 176696
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	C4NE (E)	0	5	565000 176727
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(E)	0	5	565800 176300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	C3NE (NW)	0	5	564374 176727
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	C3NE (SW)	0	5	564350 176700
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(SE)	0	5	565050 176250
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(E)	0	5	565700 176250
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(E)	0	5	565750 176700
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SE)	0	5	565700 176050
	Bedrock Aquifer Designations Aquifer Desination: Principal Aquifer	C3NE (NW)	0	5	564374 176727
	Bedrock Aquifer Designations Aquifer Desination: Principal Aquifer	C4NE (E)	0	5	565000 176727
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - Undifferentiated	C4NE (E)	0	5	565000 176727
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - Undifferentiated	C3NE (NW)	0	5	564374 176727
3	**Detailed River Network Lines** River Type: Extended Culvert (greater than 50m) River Name: Not Supplied Hydrographic Area: B06 River Flow Type: Primary Flow Path River Surface Level: Below Surface Drain Feature: Not a Drain Flood Risk Management Status: Flood Risk Management Indicative/Statutory Main River Water Course Name: Not Supplied Water Course Reference: 1357	C3NE (N)	0	4	564342 177008
	Detailed River Network Nodes None				
	Detailed River Network Offline Drainage None				
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	C3NE (NW)	0	4	564374 176727
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	C3NW (W)	57	4	564016 176740

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	C3NE (NW)	0	4	564374 176727
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	C3NE (E)	0	4	564379 176726
	Flood Defences None				
	Flood Water Storage Areas Type: Flood Water Storage Areas Reference: Not Supplied	C3NW (NW)	0	4	564105 176986
	Groundwater Vulnerability Soil Classification: Not classified Map Sheet: Sheet 40 Thames Estuary Scale: 1:100,000	(SW)	0	4	563626 176225
	Groundwater Vulnerability Soil Classification: Soils of High Leaching Potential (U) - Soil information for restored mineral workings and urban areas is based on fewer observations than elsewhere. A worst case vulnerability classification (H) assumed, until proved otherwise Map Sheet: Sheet 40 Thames Estuary Scale: 1:100,000	C3NE (NW)	0	4	564374 176727
	Groundwater Vulnerability Soil Classification: Soils of High Leaching Potential (H1) - Soils which readily transmit liquid discharges because they are either shallow, or susceptible to rapid by-pass flow directly to rock, gravel or groundwater Map Sheet: Sheet 40 Thames Estuary Scale: 1:100,000	C3NW (NW)	0	4	563991 176999
	Drift Deposits Drift Deposit: Low permeability drift deposits occuring at the surface and overlying Major and Minor Aquifers are head, clay-with-flints, brickearth, peat, river terrace deposits and marine and estuarine alluvium Map Sheet: Sheet 40 Thames Estuary Scale: 1:100,000	C3NE (NW)	0	4	564374 176727
4	**Historic Flood Events** Flood Event Type: Historic Flood Event - Tidal Flooding Cause: Overtopping of Defences Source: Environment Agency, Head Office Flood Event Start Date: 31st January 1953 Flood Event End Date: 1st February 1953	C3NE (NW)	0	4	564374 176727
5	**Source Protection Zones** Name: Various Source: Environment Agency, Head Office Reference: Not Supplied Type: Zone III (Total Catchment): The total area needed to support the discharge from the protected groundwater source.	(NE)	973	4	565640 178228

Ecology	Version	Update Cycle
Ancient Woodland Natural England	August 2016	Bi-Annually
Areas of Outstanding Natural Beauty Natural England	September 2016	Bi-Annually
Country Parks Natural England	October 2015	Annually
Environmentally Sensitive Areas Natural England	September 2016	Annually
Local Nature Reserves Natural England	September 2016	Bi-Annually
Marine Nature Reserves Natural England	September 2016	Bi-Annually
National Nature Reserves Natural England	September 2016	Bi-Annually
National Parks Natural England	August 2016	Bi-Annually
Nitrate Sensitive Areas Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	April 2016	Not Applicable
Nitrate Vulnerable Zones Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	October 2015	Annually
Ramsar Sites Natural England	April 2016	Bi-Annually
Sites of Special Scientific Interest Natural England	April 2016	Bi-Annually
Special Areas of Conservation Natural England	September 2016	Bi-Annually
Special Protection Areas Natural England	September 2016	Bi-Annually
Heritage	**Version**	**Update Cycle**
Historic Battlefields English Heritage - National Monument Record Centre	March 2016	Bi-Annually
Listed Buildings English Heritage - National Monument Record Centre	April 2016	Bi-Annually
Scheduled Monuments English Heritage - National Monument Record Centre	March 2016	Bi-Annually
World Heritage Sites English Heritage - National Monument Record Centre	September 2015	Bi-Annually

Data Currency

Agency & Hydrological	Version	Update Cycle
Areas Benefiting from Flood Defences Environment Agency - Head Office	October 2016	Quarterly
BGS Groundwater Flooding Susceptibility British Geological Survey - National Geoscience Information Service	May 2013	Annually
Bedrock Aquifer Designations British Geological Survey - National Geoscience Information Service	August 2015	As notified
Superficial Aquifer Designations British Geological Survey - National Geoscience Information Service	August 2015	As notified
Detailed River Network Lines Environment Agency - Head Office	September 2014	Annually
Detailed River Network Nodes Environment Agency - Head Office	March 2012	Annually
Detailed River Network Offline Drainage Environment Agency - Head Office	March 2012	Annually
Extreme Flooding from Rivers or Sea without Defences Environment Agency - Head Office	October 2016	Quarterly
Flooding from Rivers or Sea without Defences Environment Agency - Head Office	October 2016	Quarterly
Flood Defences Environment Agency - Head Office	October 2016	Quarterly
Flood Water Storage Areas Environment Agency - Head Office	October 2016	Quarterly
Groundwater Vulnerability Environment Agency - Head Office	April 2015	Not Applicable
Drift Deposits Environment Agency - Head Office	January 1999	Not Applicable
Historic Flood Events Environment Agency - Head Office	July 2016	Quarterly
Source Protection Zones Environment Agency - Head Office	October 2016	Quarterly
Visual and Landscape	**Version**	**Update Cycle**
Historic Parks, Gardens and Designed Landscapes English Heritage - National Monument Record Centre	March 2016	Bi-Annually

Data Suppliers

A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo
Ordnance Survey	Map data
Environment Agency	Environment Agency
Scottish Environment Protection Agency	SEPA Scottish Environment Protection Agency
British Geological Survey	BGS 1835 British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL
Centre for Ecology and Hydrology	CEH Centre for Ecology & Hydrology NATURAL ENVIRONMENT RESEARCH COUNCIL
Natural Resources Wales	Cyfoeth Naturiol Cymru Natural Resources Wales
Scottish Natural Heritage	SCOTTISH NATURAL HERITAGE
Natural England	NATURAL ENGLAND

Useful Contacts

Contact	Name and Address	Contact Details
1	**Natural England** County Hall, Spetchley Road, Worcester, WR5 2NP	Telephone: 0300 060 3900 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.uk
2	**Thurrock Borough Council - Development Control** Civic Offices, New Road, Grays, Essex, RM17 6SL	Telephone: 01375 390000 Fax: 01375 652359 Website: www.thurrock.gov.uk
3	**English Heritage - National Monument Record Centre** Kemble Drive, Swindon, Wiltshire, SN2 2GZ	Telephone: 01793 414600 Fax: 01793 414606 Email: nmrinfo@english-heritage.org.uk Website: www.english-heritage.org.uk
4	**Environment Agency - National Customer Contact Centre (NCCC)** PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
5	**British Geological Survey - Enquiry Service** British Geological Survey, Kingsley Dunham Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
-	**Landmark Information Group Limited** Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

Please note that the Environment Agency / Natural Resources Wales / SEPA have a charging policy in place for enquiries.

Envirocheck®

LANDMARK INFORMATION GROUP®

Site Sensitivity

General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Map ID
- Several of Type at Location

Ecology

- Ancient Woodland
- National Nature Reserve
- Area of Adopted Green Belt
- National Park
- Area of Unadopted Green Belt
- Nitrate Sensitive Area
- Area of Outstanding Natural Beauty
- Nitrate Vulnerable Zone
- Country Parks
- Ramsar Site
- Environmentally Sensitive Area
- Site of Special Scientific Interest
- Forest Park
- Special Area of Conservation
- Local Nature Reserve
- Special Protection Area
- Marine Nature Reserve

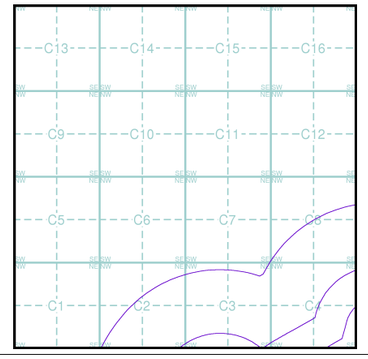
Heritage

- Historic Battlefields
- Listed Buildings
- Scheduled Monuments
- World Heritage Sites

Visual and Landscape

- Historic Parks, Gardens and Designed Landscapes

Site Sensitivity - Slice C



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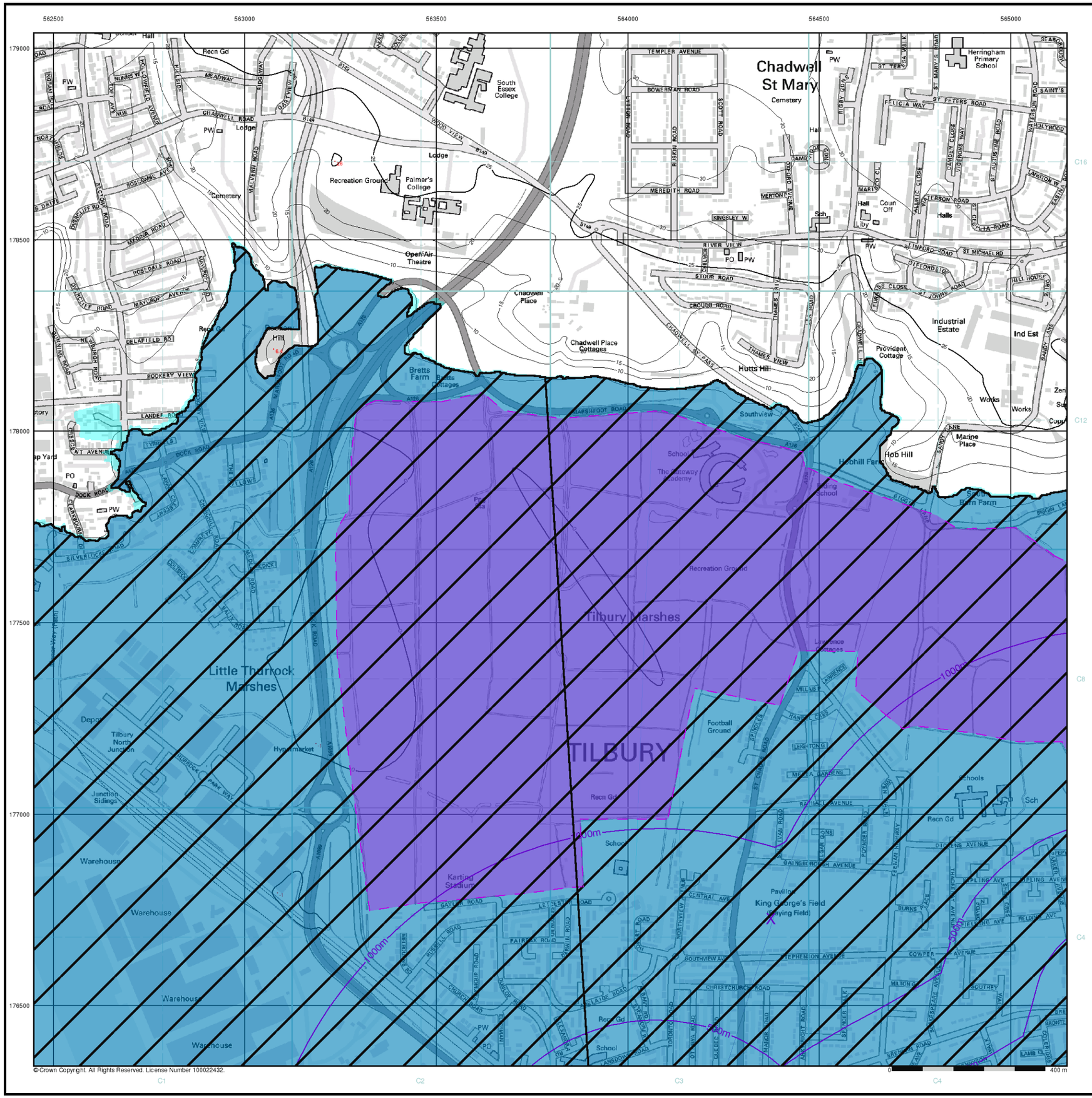

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Water and Hydrology

General

- Specified Site
- Specified Buffer(s)
- X Bearing Reference Point

Flood

- Extreme Flooding from Rivers or Sea without Defences (Zone 2)
- Flooding from Rivers or Sea without Defences (Zone 3)
- Area Benefiting from Flood Defence
- Flood Water Storage Areas
- Flood Defence

Contours (height in meters)

Standard Contour 105 100 95

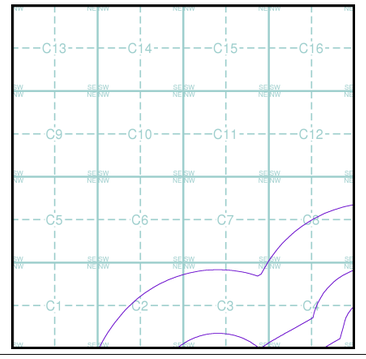
Master Contour

Spot Height *167.8

MLW Mean Low Water

MHW Mean High Water

Flood - Slice C



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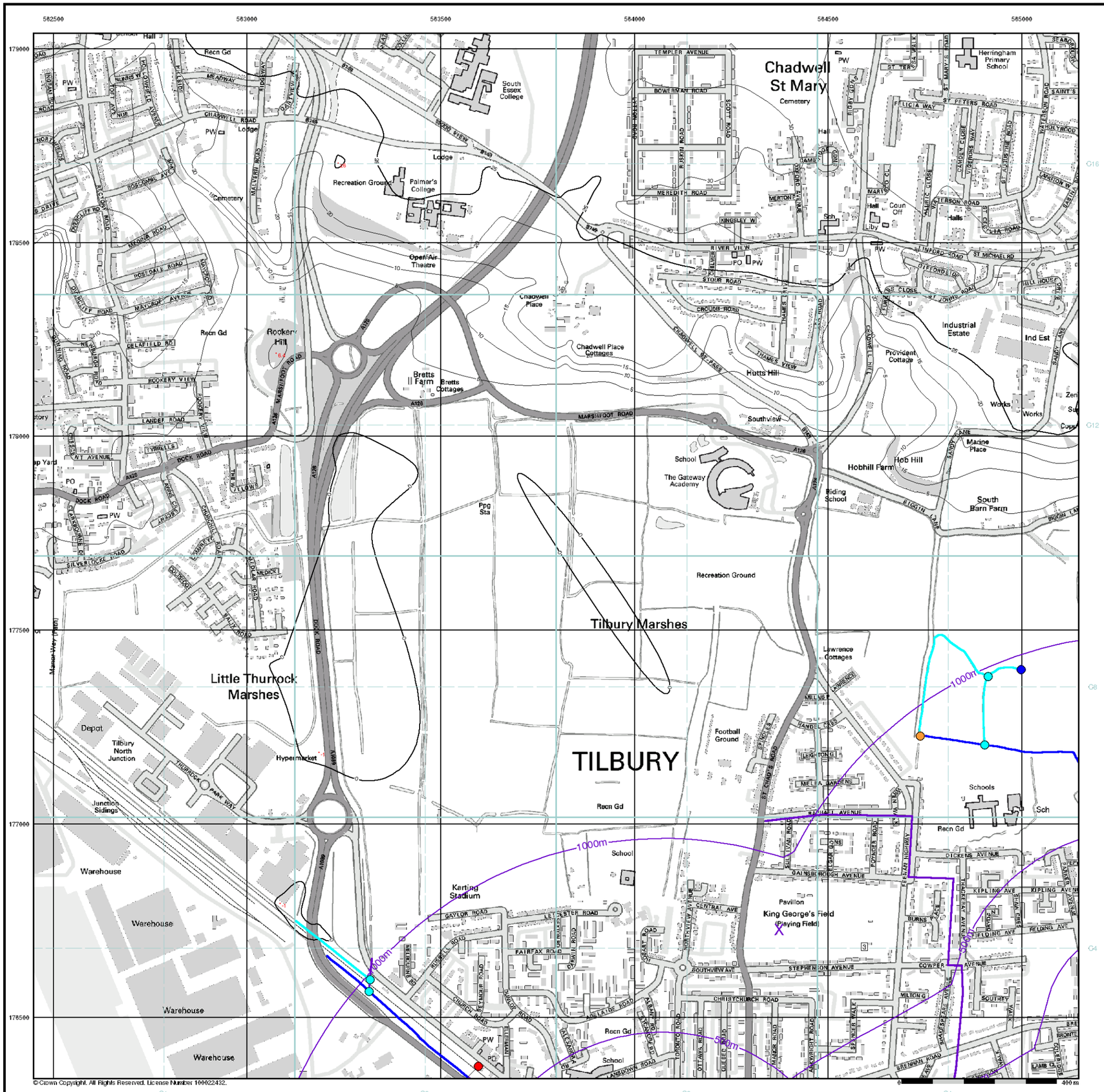
Web: www.envirocheck.co.uk



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Water and Hydrology

General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Map ID

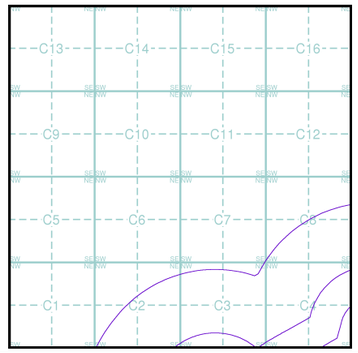
Detailed River Network

- Primary River
- Secondary River
- Tertiary River
- Canal
- Canal Tunnel
- Undefined River
- Lake/Reservoir
- Extended Culvert (greater than 50m)
- Underground River (inferred)
- Underground River (local knowledge)
- Downstream of High Water Mark
- Downstream of Seaward Extension
- Not assigned River feature
- Source
- Junction
- Sink
- Non-interactive Node
- Offline Drainage Feature
- Not assigned River feature
- Pseudo Node (general)
- Pseudo Node (High Water Mark)
- Pseudo Node (OS MasterMap polygon boundary)

Contours (height in meters)

- Standard Contour (105, 100, 95)
- Master Contour
- Spot Height (167.8)
- MLW Mean Low Water
- MHW Mean High Water

Detailed River Network - Slice C



Order Details

Order Number:	107251247_1_1
Customer Ref:	5153187- 211 Tilbury Power Station
National Grid Reference:	564370, 176730
Slice:	C
Site Area (Ha):	81.8
Search Buffer (m):	1000

Site Details

Gravesend

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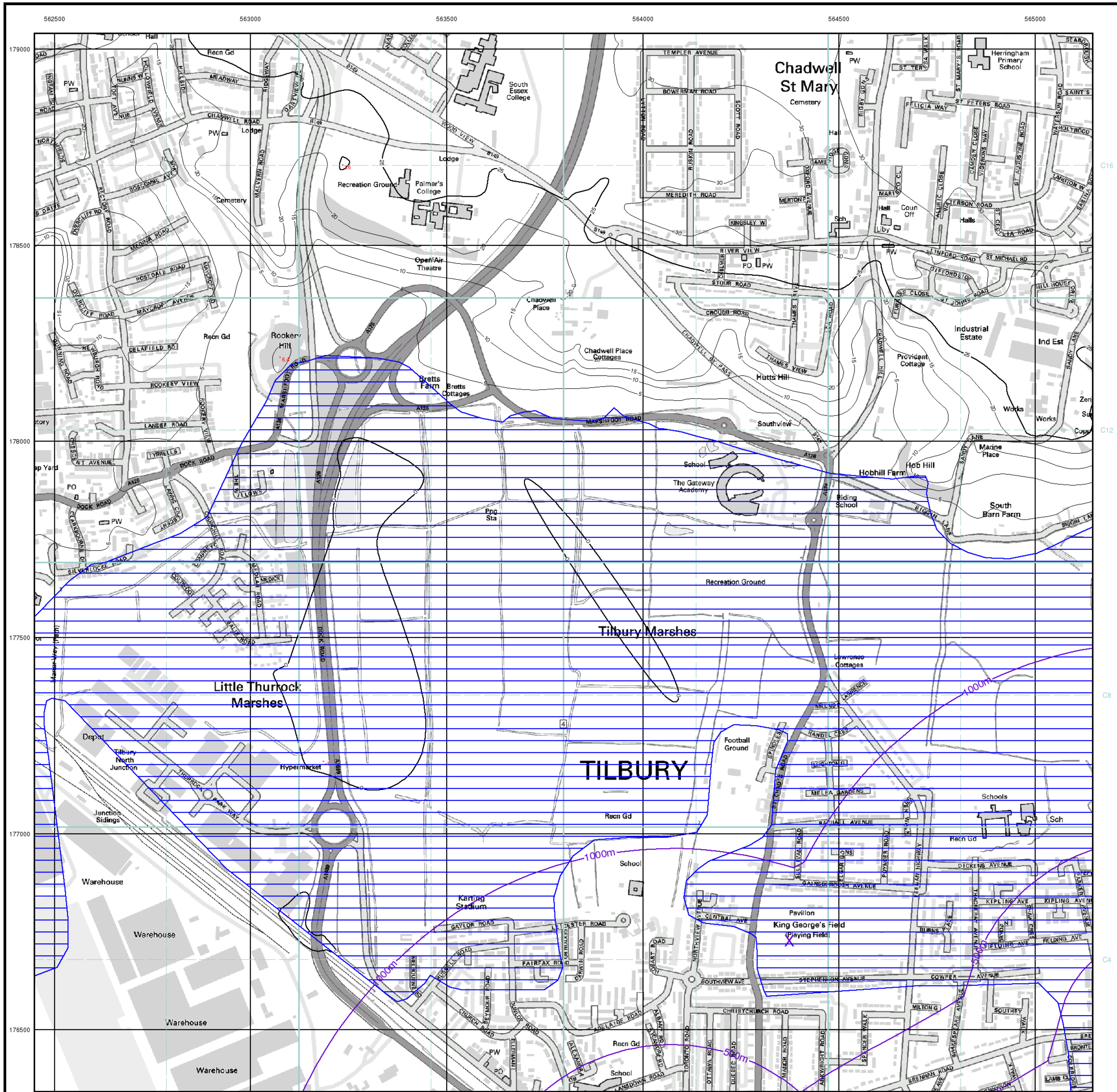

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Water and Hydrology

General

Specified Site

Specified Buffer(s)

X Bearing Reference Point

8 Map ID

Historic Flood

Channel Capacity Exceeded (no raised defences)

Groundwater/High Water Table

Local Drainage/Surface Water

Mechanical Failure

Obstruction/Blockage - Bridge

Obstruction/Blockage - Channel

Obstruction/Blockage - Culvert

Obstruction/Blockage - Debris Screen

Operational Failure/ Breach of Defence

Other

Overtopping of Defences

Unknown

Historical Flood Liabilities

Contours (height in meters)

Standard Contour — 105

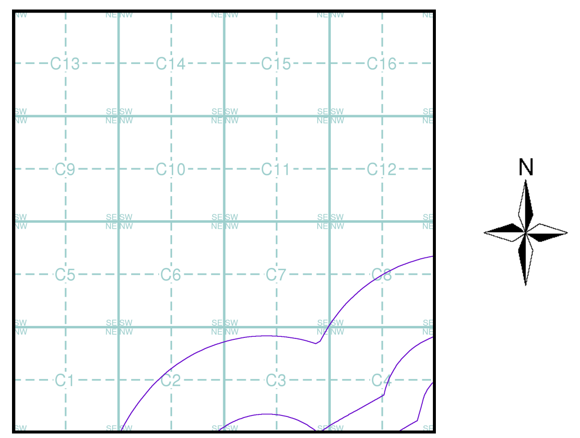
Master Contour — 100, 95

Spot Height 167.8

MLW Mean Low Water

MHW Mean High Water

Historic Flood - Slice C



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Aerial Photo

General

Specified Site

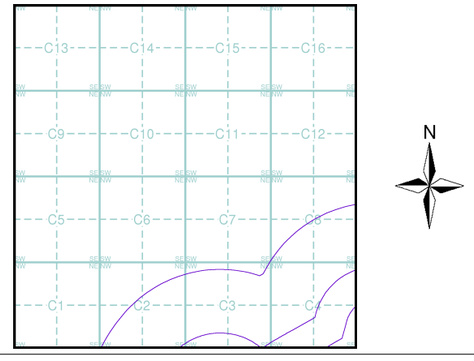
Specified Buffer(s)

Bearing Reference Point

Published Date(s):

2014

Aerial Photo - Slice C



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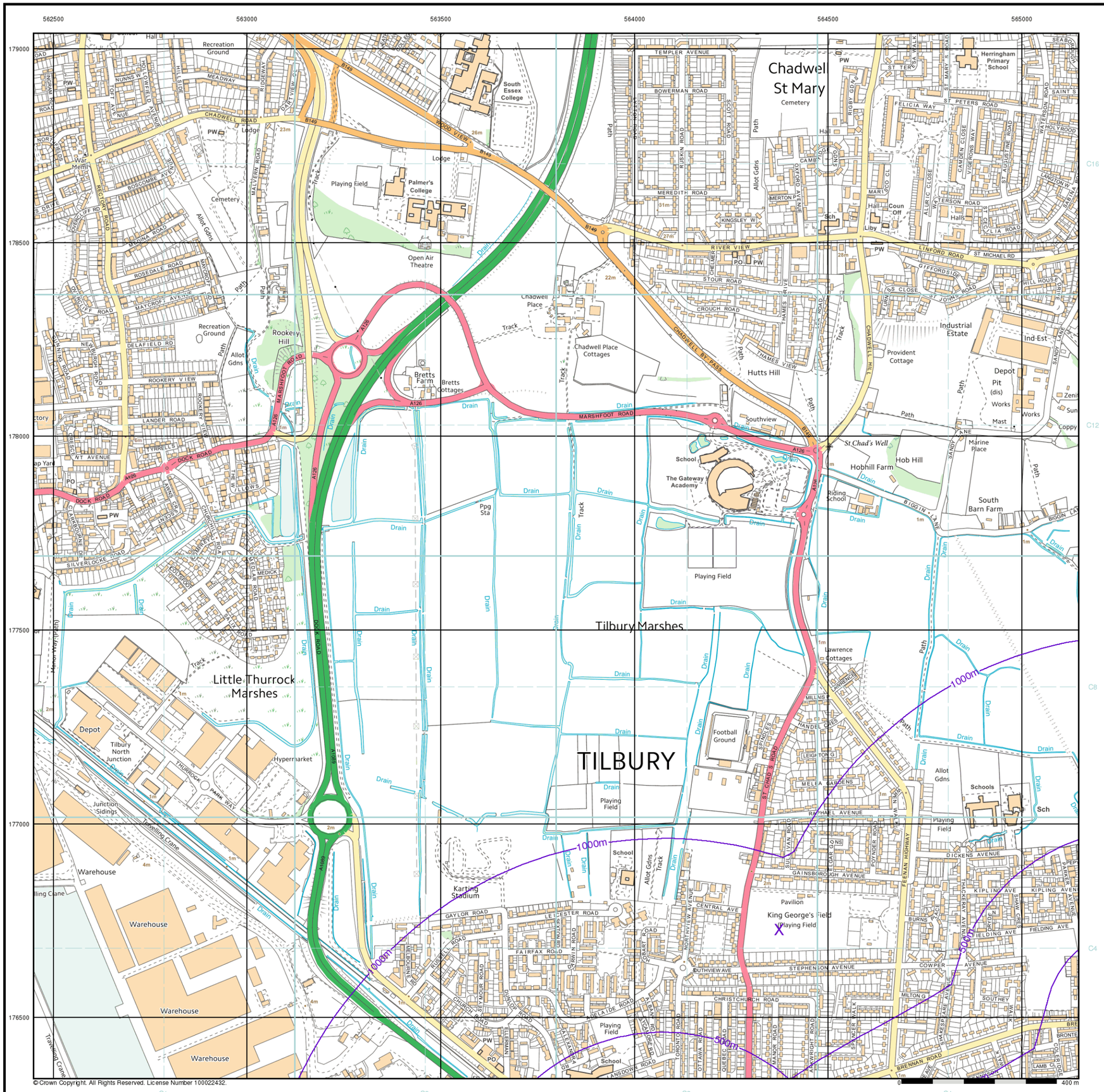

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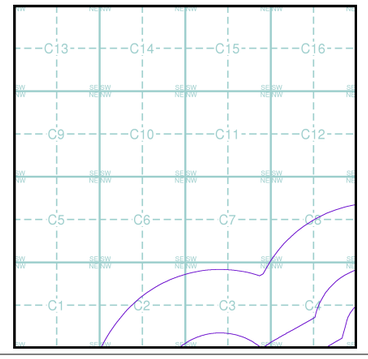
Site Location

General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point

Site Location - Slice C



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OS VectorMap® Local

Colour Raster version

COMMUNICATIONS (TRANSPORT)

Depicted roads are not necessarily rights of way

- Motorway
- Primary road
- Main road ('A' road)
- Secondary road ('B' road)
- Minor road
- Local street
- Private road with public access
- Pedestrianised street
- Multiple track railway
- Single track railway or siding
- Narrow gauge railway
- Road or rail tunnel

SETTLEMENT

- Building
- Important building
- Glasshouse
- Overhead building line

VEGETATION

- Broad-leafed woodland
- Coniferous woodland
- Mixed woodland
- Orchard
- Shrub
- Unimproved grass
- Heathland
- Marsh
- Reeds

WATER FEATURES

- Water (surface or tidal)
- Water
- Mean high water
- Mean low water
- Direction of flow arrows
- Water point features (for example Wells, Springs)

HEIGHT

Surface heights are in metres above mean sea level

- 57m Height

LANDFORMS

- Ornament
- Inland rock
- Boulders
- Shingle
- Cliff
- Large slopes
- Standard slopes
- Mud
- Sand
- Gravel pit
- Sand pit
- Refuse tip or slag heap

POINT & LINE FEATURES

- General line detail
- Overhead detail
- Telephone line
- Electricity transmission line
- Pylon
- Triangulation station
- Point features (for example Shafts, Posts)
- Site of antiquity

COMMON ABBREVIATIONS

CG	Cattle grid
Chy	Chimney
Coll	College
Ct	Court
El Sub Sta	Electricity sub station
FB	Footbridge
Fl Sk	Flare stack
Fn	Fountain
FS	Flagstaff
GP	Guide post
LC	Level crossing
Liby	Library
Meml	Memorial
MHW(s)	Mean high water (springs)
MLW(s)	Mean low water (springs)
Mon	Monument
MP, MS	Mile post or stone
NTL	Normal tidal water
P, Ps	Post(s) or pole(s)
PH	Public House
PO	Post office
Pol Sta	Police Station
PW	Place of worship
Sch	School
Spr	Spring
Sta	Station
Tk	Tank or track
W	Well

Geology 1:50,000 Maps Legends

Artificial Ground and Landslip

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	WMGR	Infilled Ground	Artificial Deposit	Cenozoic - Cenozoic
	MGR	Made Ground (Undivided)	Artificial Deposit	Holocene - Holocene
	WGR	Worked Ground (Undivided)	Void	Holocene - Holocene

Superficial Geology

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	ALV	Alluvium	Clay, Silty, Peaty, Sandy [Unlithified Deposits Coding Scheme]	Flandrian - Flandrian
	TRD	Tidal River Or Creek Deposits	Clay and Silt	Flandrian - Flandrian
	TPGR	Taplow Gravel Formation	Sand and Gravel	Wolstonian - Wolstonian
	ILSI	Ilford Silt Member	Clay and Silt	Saalian - Saalian
	BHT	Boyn Hill Gravel Member	Sand and Gravel	Wolstonian - Hoxnian
	HEAD	Head	Clay, Silt, Sand and Gravel	Quaternary - Quaternary

Bedrock and Faults

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	TAB	Thanet Formation	Sand	Thanetian - Thanetian
	LMBE	Lambeth Group	Sand, Silt and Clay	Paleocene - Paleocene
	SNCK	Seaford Chalk Formation and Newhaven Chalk Formation (Undifferentiated)	Chalk	Campanian - Coniacian

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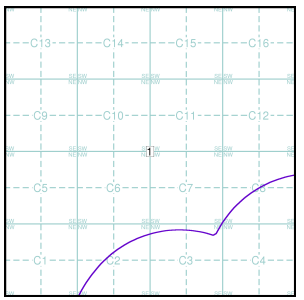
Geology 1:50,000 Maps

This report contains geological map extracts taken from the BGS Digital Geological map of Great Britain at 1:50,000 scale and is designed for users carrying out preliminary site assessments who require geological maps for the area around the site. This mapping may be more up to date than previously published paper maps.
The various geological layers - artificial and landslip deposits, superficial geology and solid (bedrock) geology are displayed in separate maps, but superimposed on the final 'Combined Surface Geology' map. All map legends feature on this page. Not all layers have complete nationwide coverage, so availability of data for relevant map sheets is indicated below.

Geology 1:50,000 Maps Coverage

Map ID:	**1**
Map Sheet No:	**271**
Map Name:	**Dartford**
Map Date:	**1998**
Bedrock Geology:	**Available**
Superficial Geology:	**Available**
Artificial Geology:	**Available**
Faults:	**Not Supplied**
Landslip:	**Available**
Rock Segments:	**Not Supplied**

Geology 1:50,000 Maps - Slice C



Order Details:

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Slice:	C
Site Area (Ha):	81.8
Search Buffer (m):	1000

Site Details:

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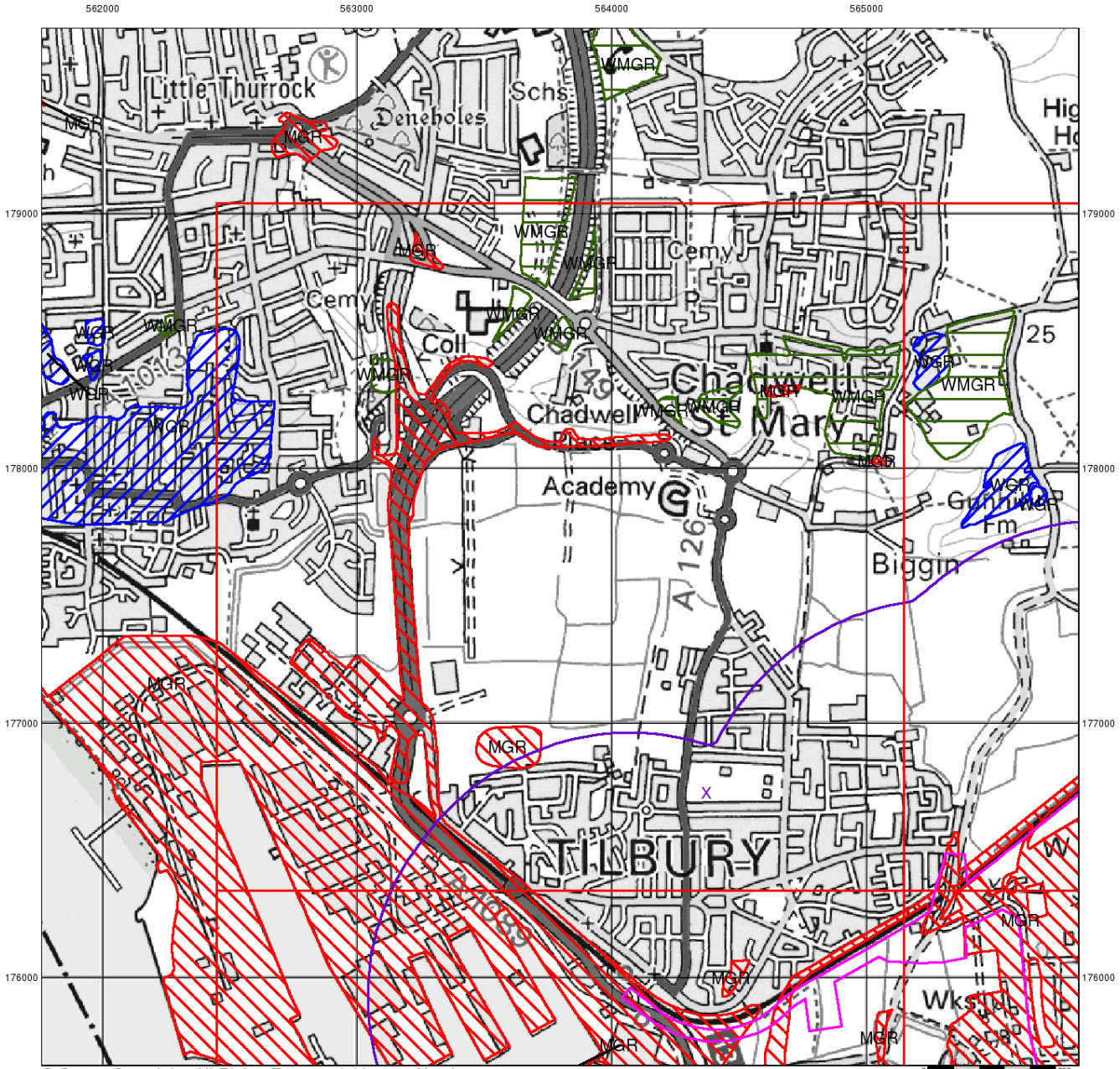

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Artificial Ground and Landslip

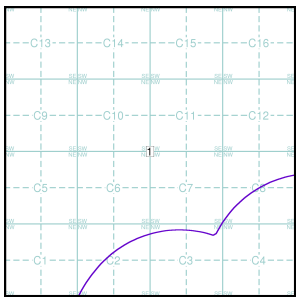
Artificial ground is a term used by BGS for those areas where the ground surface has been significantly modified by human activity. Information about previously developed ground is especially important, as it is often associated with potentially contaminated material, unpredictable engineering conditions and unstable ground.

Artificial ground includes:

- Made ground - man-made deposits such as embankments and spoil heaps on the natural ground surface.
- Worked ground - areas where the ground has been cut away such as quarries and road cuttings.
- Infilled ground - areas where the ground has been cut away then wholly or partially backfilled.
- Landscaped ground - areas where the surface has been reshaped.
- Disturbed ground - areas of ill-defined shallow or near surface mineral workings where it is impracticable to map made and worked ground separately.

Mass movement (landslip) deposits on BGS geological maps are primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground. The dataset also includes foundered strata, where the ground has collapsed due to subsidence.

Artificial Ground and Landslip Map - Slice C



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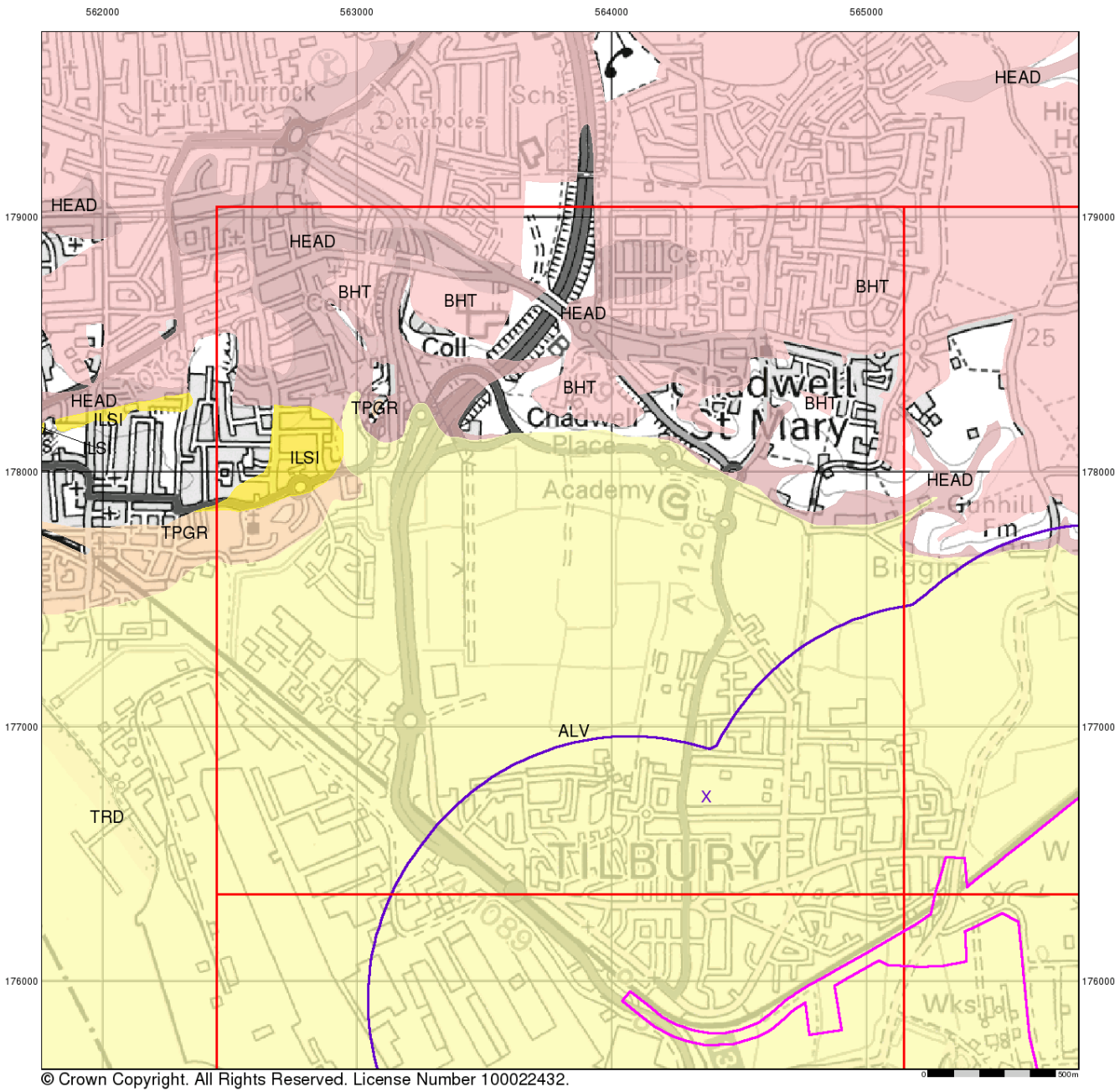

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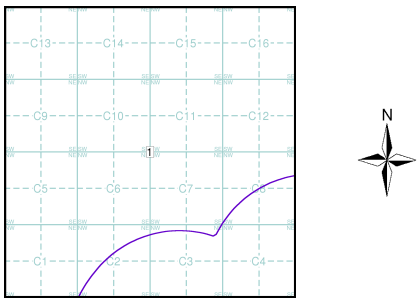
Superficial Geology

Superficial Deposits are the youngest geological deposits formed during the most recent period of geological time, the Quaternary, which extends back about 1.8 million years from the present.

They rest on older deposits or rocks referred to as Bedrock. This dataset contains Superficial deposits that are of natural origin and 'in place'. Other superficial strata may be held in the Mass Movement dataset where they have been moved, or in the Artificial Ground dataset where they are of man-made origin.

Most of these Superficial deposits are unconsolidated sediments such as gravel, sand, silt and clay, and onshore they form relatively thin, often discontinuous patches or larger spreads.

Superficial Geology Map - Slice C



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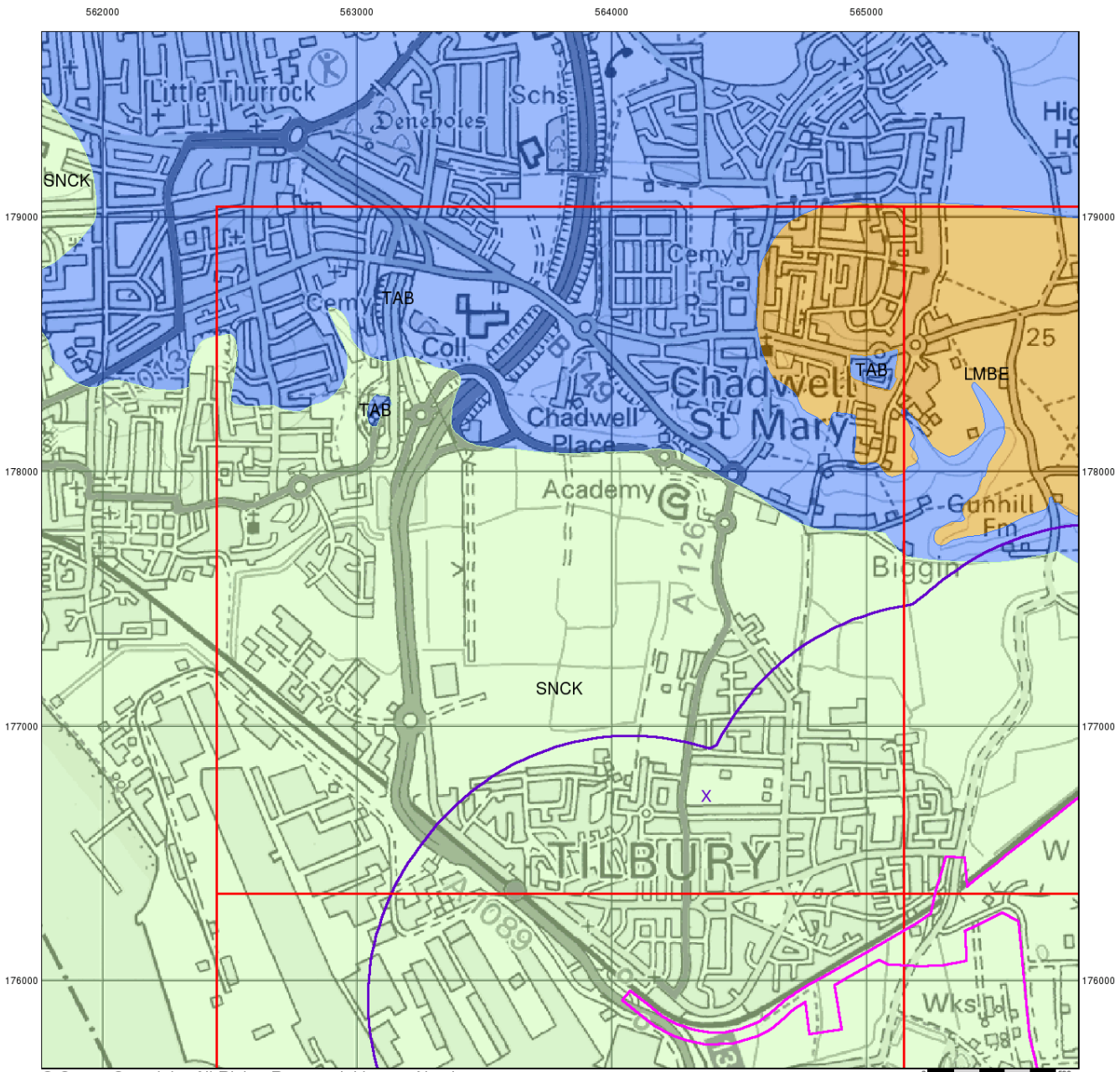

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Bedrock and Faults

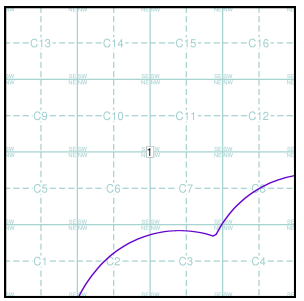
Bedrock geology is a term used for the main mass of rocks forming the Earth and are present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

The bedrock has formed over vast lengths of geological time ranging from ancient and highly altered rocks of the Proterozoic, some 2500 million years ago, or older, up to the relatively young Pliocene, 1.8 million years ago.

The bedrock geology includes many lithologies, often classified into three types based on origin: igneous, metamorphic and sedimentary.

The BGS Faults and Rock Segments dataset includes geological faults (e.g. normal, thrust), and thin beds mapped as lines (e.g. coal seam, gypsum bed). Some of these are linked to other particular 1:50,000 Geology datasets, for example, coal seams are part of the bedrock sequence, most faults and mineral veins primarily affect the bedrock but cut across the strata and post date its deposition.

Bedrock and Faults Map - Slice C



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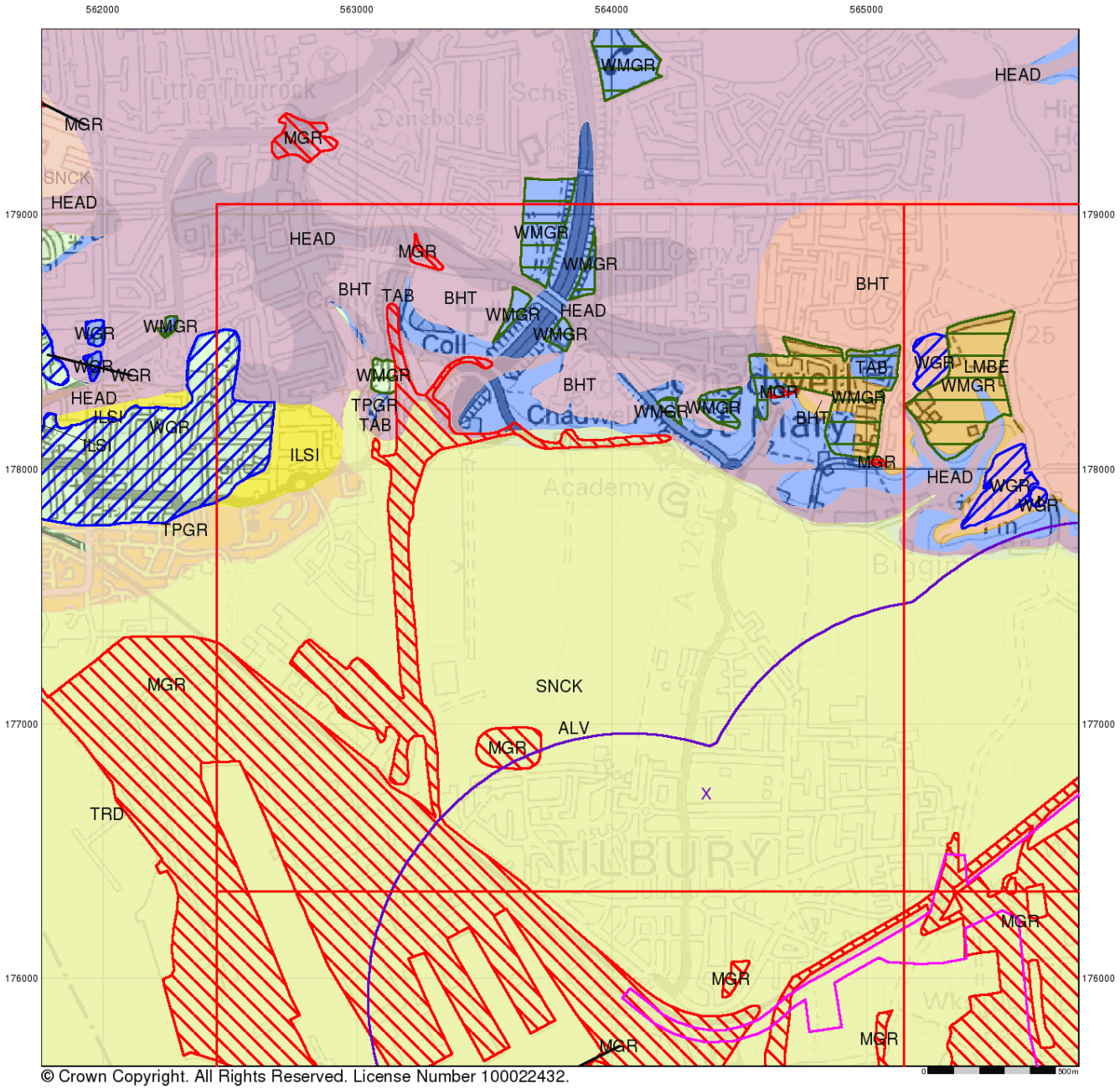

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Combined Surface Geology

The Combined Surface Geology map combines all the previous maps into one combined geological overview of your site.

Please consult the legends to the previous maps to interpret the Combined "Surface Geology" map.

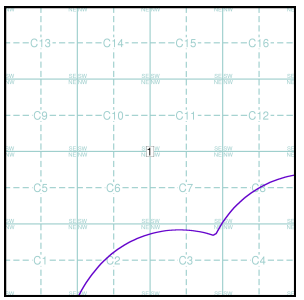
Additional Information

More information on 1:50,000 Geological mapping and explanations of rock classifications can be found on the BGS website. Using the LEX Codes in this report, further descriptions of rock types can be obtained by interrogating the 'BGS Lexicon of Named Rock Units'. This database can be accessed by following the 'Information and Data' link on the BGS website.

Contact

British Geological Survey
Kingsley Dunham Centre
Keyworth
Nottingham
NG12 5GG
Telephone: 0115 936 3143
Fax: 0115 936 3276
email: enquiries@bgs.ac.uk
website: www.bgs.ac.uk

Combined Geology Map - Slice C



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Geology 1:10,000 Maps Legends

Artificial Ground and Landslip

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	MGR	Made Ground (Undivided)	Unknown/Unclassified Entry	Holocene - Holocene
	WMGR	Infilled Ground	Unknown/Unclassified Entry	Holocene - Holocene
	WGR	Worked Ground (Undivided)	Unknown/Unclassified Entry	Holocene - Holocene

Superficial Geology

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	ALV	Alluvium	Silt	Flandrian - Pleistocene
	TPGR	Taplow Gravel Formation	Sand and Gravel	Wolstonian - Chokierian
	ILSI	Ilford Silt Member	Silt	Saalian - Bolsovian (Westphalian C)
	BHT	Boyn Hill Gravel Member	Sand and Gravel	Wolstonian - Wolstonian
	HEAD	Head	Clay	Quaternary - Ryazanian

Bedrock and Faults

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	TAB	Thanet Formation	Sand	Thanetian - Thanetian
	LMBE	Lambeth Group	Clay, Sandy	Paleocene - Paleocene
	CK	Chalk Group	Chalk	Maastrichtian - Cenomanian

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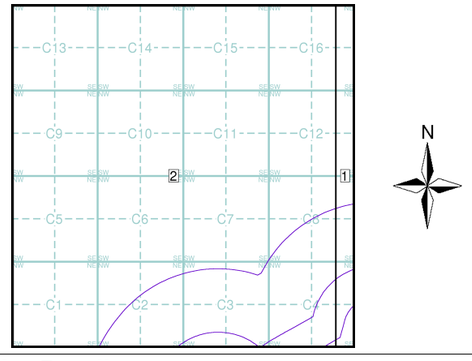
Geology 1:10,000 Maps Coverage

Map ID:	2	**Map ID:**	1
Map Name:	TQ67NW	**Map Name:**	TQ67NE
Map Date:	1996	**Map Date:**	1994
Bedrock Geology:	Available	**Bedrock Geology:**	Available
Superficial Geology:	Available	**Superficial Geology:**	Available
Artificial Geology:	Available	**Artificial Geology:**	Available
Faults:	Not Available	**Faults:**	Not Available
Landslip:	Not Available	**Landslip:**	Not Available
Rock Segments:	Not Available	**Rock Segments:**	Not Available

Geology 1:10,000 Maps - Slice C



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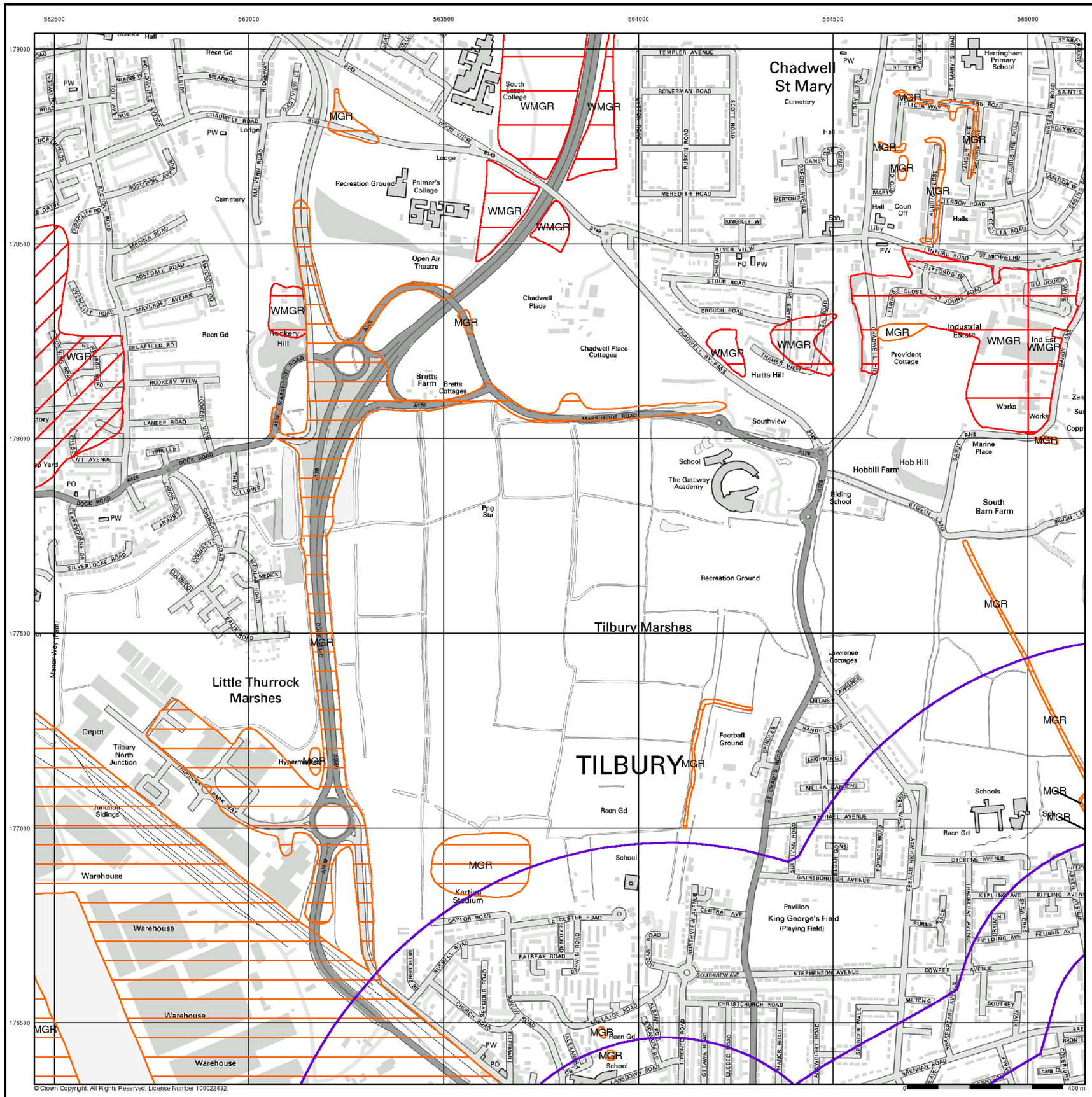

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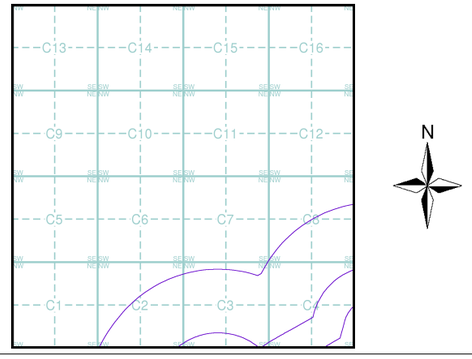

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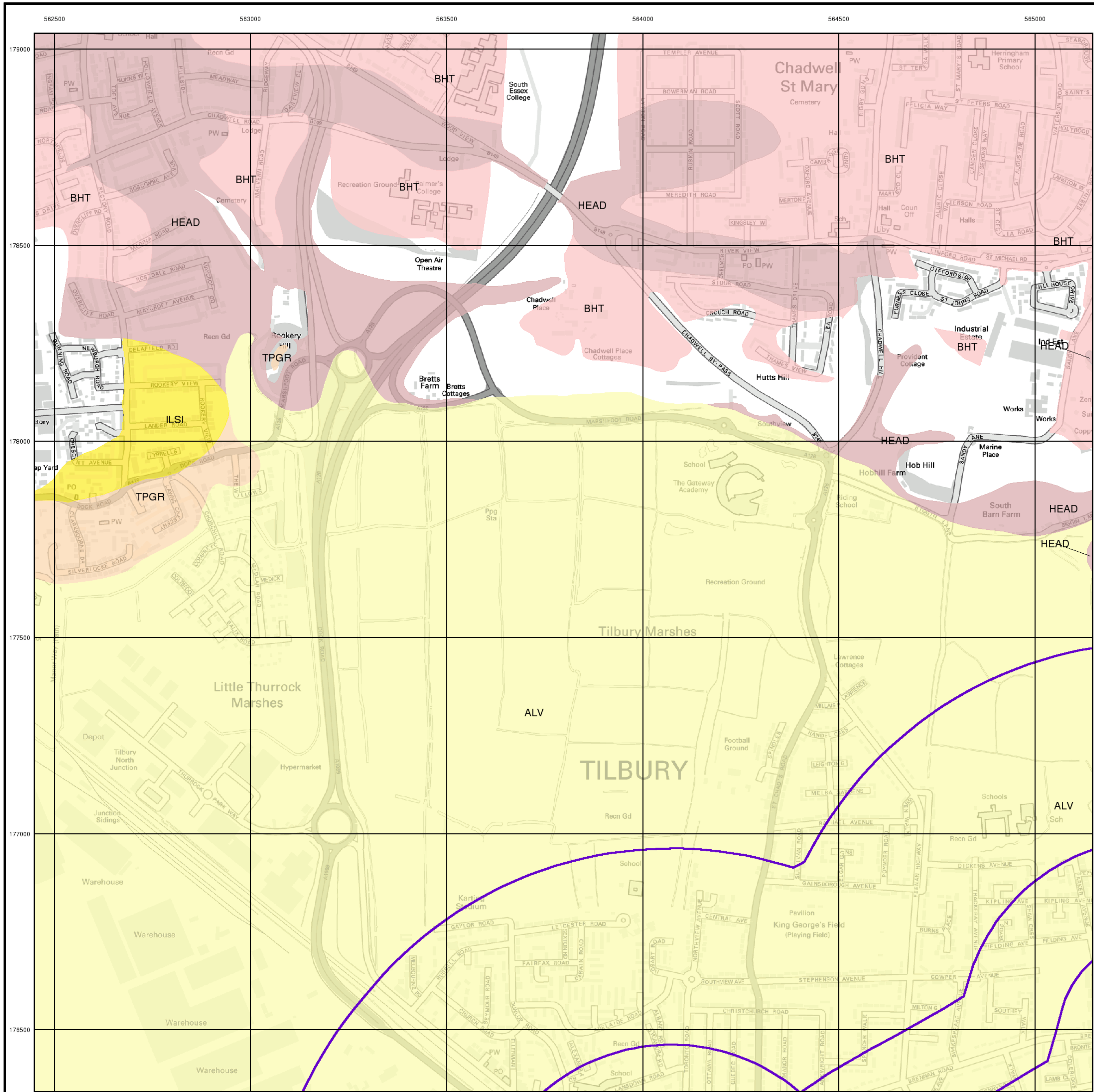

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Superficial Geology

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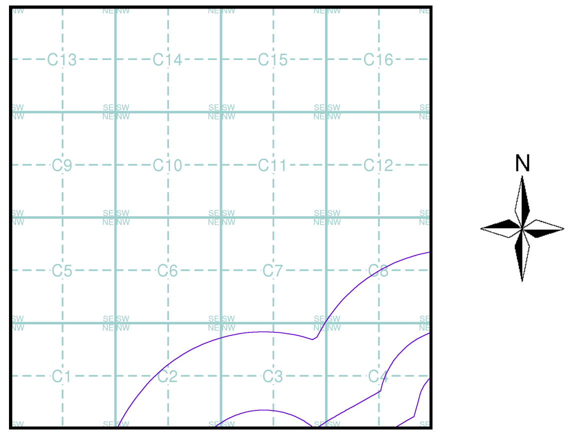
Superficial Geology Map - Slice C



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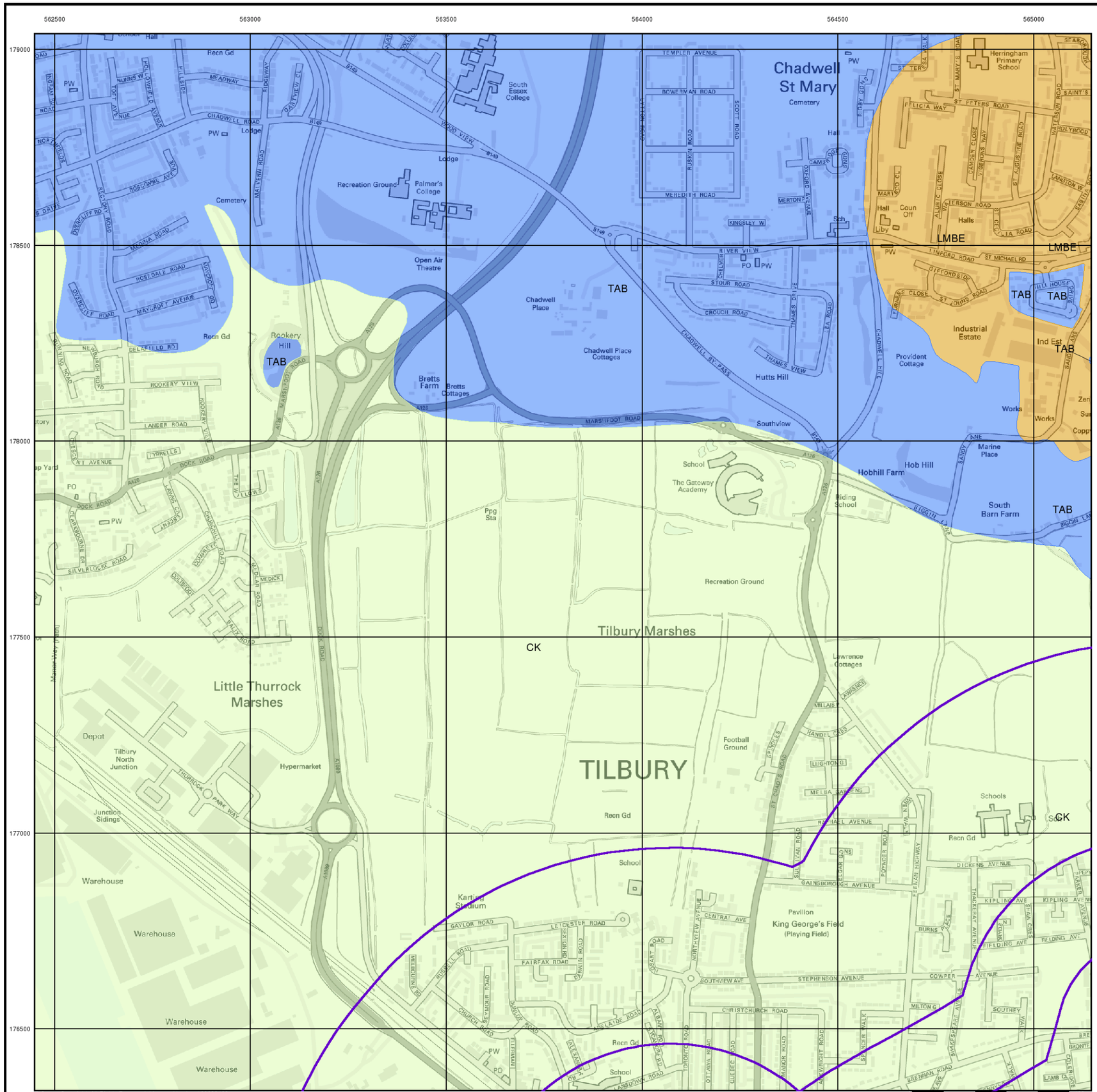
Web: www.envirocheck.co.uk



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Bedrock and Faults

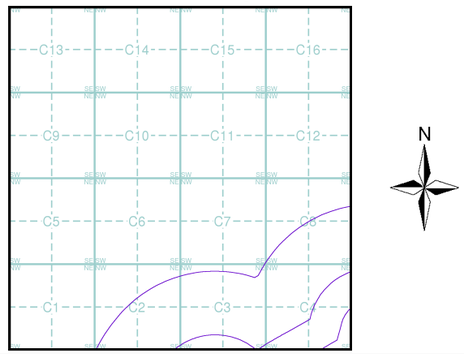
Bedrock geology is a term used for the main mass of rocks forming the Earth and are present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

The bedrock has formed over vast lengths of geological time ranging from ancient and highly altered rocks of the Proterozoic, some 2500 million years ago, or older, up to the relatively young Pliocene, 1.8 million years ago.

The bedrock geology includes many lithologies, often classified into three types based on origin: igneous, metamorphic and sedimentary.

The BGS Faults and Rock Segments dataset includes geological faults and thin beds mapped as lines such as coal seams and mineral veins. These are not restricted by age and could relate to features of any of the 1:10,000 geology datasets.

Bedrock and Faults Map - Slice C



Order Details

Order Number:	107251247_1_1
Customer Ref:	5153187- 211 Tilbury Power Station
National Grid Reference:	564370, 176730
Slice:	C
Site Area (Ha):	81.8
Search Buffer (m):	1000

Site Details

Gravesend

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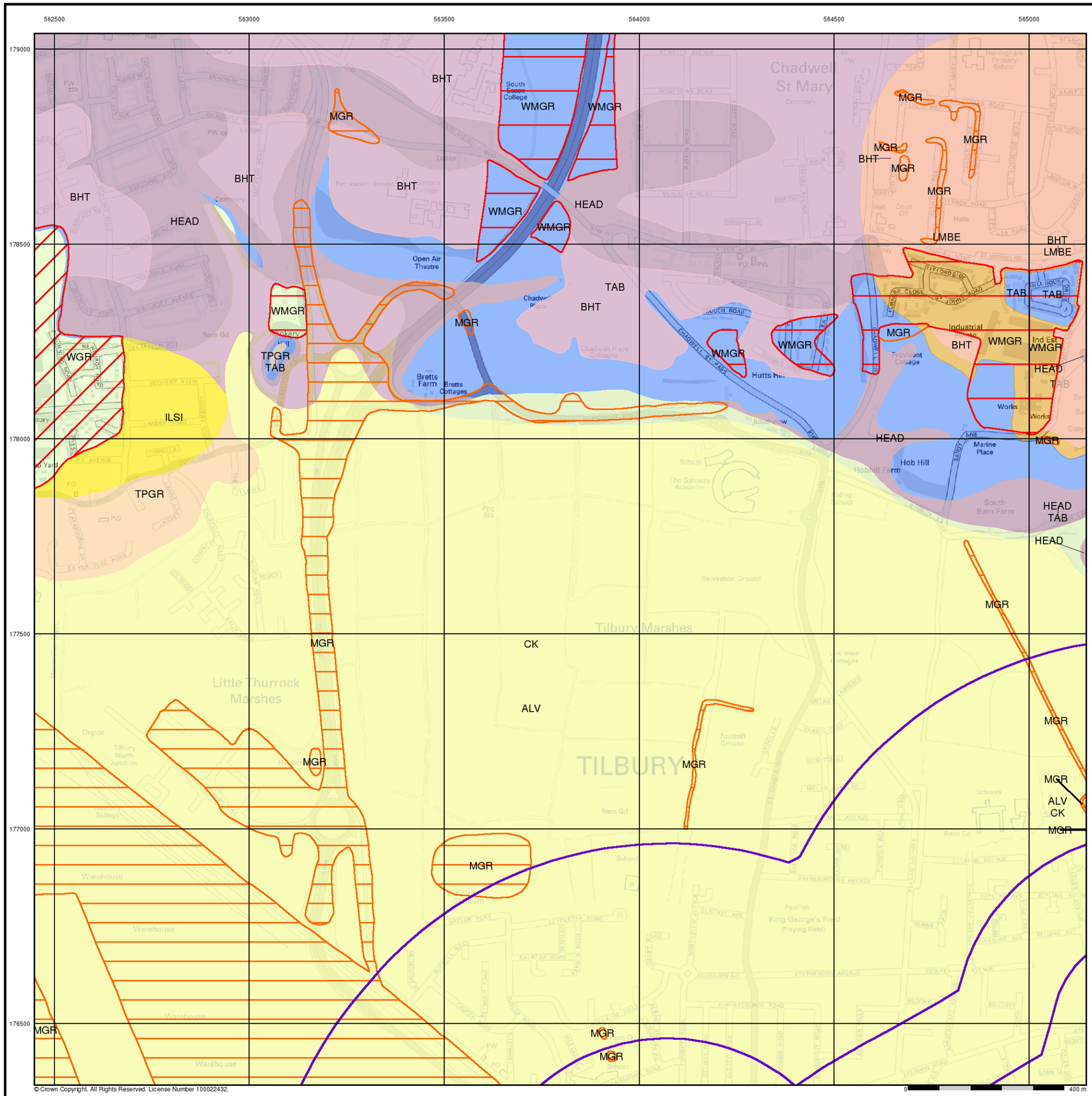
Web: www.envirocheck.co.uk



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Combined Surface Geology

The Combined Surface Geology map combines all the previous maps into one combined geological overview of your site.

Please consult the legends to the previous maps to interpret the Combined "Surface Geology" map.

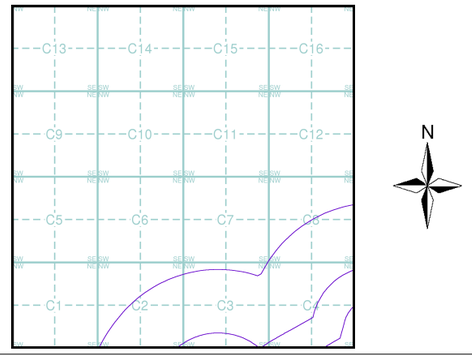
Additional Information

More information on 1:10,000 Geological mapping and explanations of rock classifications can be found on the BGS website. Using the LEX Codes in this report, further descriptions of rock types can be obtained by interrogating the 'BGS Lexicon of Named Rock Units'. This database can be accessed by following the 'Information and Data' link on the BGS website.

Contact

British Geological Survey
Kingsley Dunham Centre
Keyworth
Nottingham
NG12 5GG
Telephone: 0115 936 3143
Fax: 0115 936 3276
email: enquiries@bgs.ac.uk
website: www.bgs.ac.uk

Combined Geology Map - Slice C



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Site Details

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Historical Mapping Legends

Ordnance Survey County Series 1:10,560

Gravel Pit
Sand Pit
Other Pits
Quarry
Shingle
Orchard
Osiers
Reeds
Marsh
Mixed Wood
Deciduous
Brushwood
Fir
Furze
Rough Pasture
Arrow denotes flow of water
Trigonometrical Station
Site of Antiquities
Bench Mark
Pump, Guide Post, Signal Post
Well, Spring, Boundary Post
·285 Surface Level
Sketched Contour
Instrumental Contour
Main Roads
Fenced
Un-Fenced
Minor Roads
Fenced
Un-Fenced
Sunken Road
Raised Road
Road over Railway
Railway over River
Railway over Road
Level Crossing
Road over River or Canal
Road over Stream
Road over Stream
County Boundary (Geographical)
County & Civil Parish Boundary
Administrative County & Civil Parish Boundary
Co. Boro. Bdy. County Borough Boundary (England)
Co. Burgh Bdy. County Burgh Boundary (Scotland)
R.D. Bdy. Rural District Boundary
Civil Parish Boundary

Ordnance Survey Plan 1:10,000

Chalk Pit, Clay Pit or Quarry
Gravel Pit
Sand Pit
Disused Pit or Quarry
Refuse or Slag Heap
Lake, Loch or Pond
Dunes
Boulders
Coniferous Trees
Non-Coniferous Trees
Orchard
Scrub
Coppice
Bracken
Heath
Rough Grassland
Marsh
Reeds
Saltings
Building
Direction of Flow of Water
Shingle
Sand
Glasshouse
Pylon
Pylon
Electricity Transmission Line
Sloping Masonry
Pole
Cutting
Embankment
Standard Gauge Multiple Track
Road Under
Road Over
Level Crossing
Foot Bridge
Standard Gauge Single Track
Siding, Tramway or Mineral Line
Narrow Gauge
Geographical County
Administrative County, County Borough or County of City
Municipal Borough, Urban or Rural District, Burgh or District Council
Borough, Burgh or County Constituency
Shown only when not coincident with other boundaries
Civil Parish
Shown alternately when coincidence of boundaries occurs

BP, BS	Boundary Post or Stone	Pol Sta	Police Station
Ch	Church	PO	Post Office
CH	Club House	PC	Public Convenience
F E Sta	Fire Engine Station	PH	Public House
FB	Foot Bridge	SB	Signal Box
Fn	Fountain	Spr	Spring
GP	Guide Post	TCB	Telephone Call Box
MP	Mile Post	TCP	Telephone Call Post
MS	Mile Stone	W	Well

1:10,000 Raster Mapping

Gravel Pit
Refuse tip or slag heap
Rock
Rock (scattered)
Boulders
Boulders (scattered)
Shingle
Mud
Mud
Sand
Sand
Sand Pit
Slopes
Top of cliff
General detail
Underground detail
Overhead detail
Narrow gauge railway
Multi-track railway
Single track railway
County boundary (England only)
Civil, parish or community boundary
District, Unitary, Metropolitan, London Borough boundary
Constituency boundary
Area of wooded vegetation
Non-coniferous trees
Non-coniferous trees (scattered)
Coniferous trees
Coniferous trees (scattered)
Positioned tree
Orchard
Coppice or Osiers
Rough Grassland
Heath
Scrub
Marsh, Salt Marsh or Reeds
Water feature
Flow arrows
MHW(S) Mean high water (springs)
MLW(S) Mean low water (springs)
Telephone line (where shown)
Electricity transmission line (with poles)
BM 123.45 m Bench mark (where shown)
Triangulation station
Point feature (e.g. Guide Post or Mile Stone)
Pylon, flare stack or lighting tower
Site of (antiquity)
Glasshouse
General Building
Important Building

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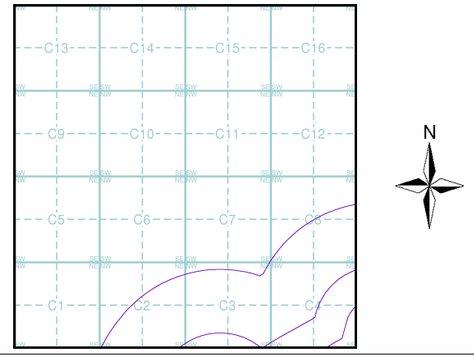
Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Kent	1:10,560	1869	3
Essex	1:10,560	1873	4
Essex	1:10,560	1898	5
Kent	1:10,560	1899	6
Kent	1:10,560	1909 - 1910	7
Essex	1:10,560	1923	8
Kent	1:10,560	1932	9
Kent	1:10,560	1938	10
Essex	1:10,560	1938	11
Essex	1:10,560	1938	12
Historical Aerial Photography	1:10,560	1947	13
Kent	1:10,560	1950 - 1951	14
Ordnance Survey Plan	1:10,000	1961	15
Ordnance Survey Plan	1:10,000	1966 - 1967	16
Ordnance Survey Plan	1:10,000	1974 - 1975	17
Gravesend	1:10,000	1977	18
Ordnance Survey Plan	1:10,000	1984	19
Ordnance Survey Plan	1:10,000	1991 - 1993	20
Ordnance Survey Plan	1:10,000	1994	21
10K Raster Mapping	1:10,000	1999	22
10K Raster Mapping	1:10,000	2006	23
VectorMap Local	1:10,000	2016	24

Historical Map - Slice C



Order Details

Order Number: 107251247_1_1
Customer Ref: 5153187- 211 Tilbury Power Station
National Grid Reference: 564370, 176730
Slice: C
Site Area (Ha): 81.8
Search Buffer (m): 1000

Site Details

Gravesend

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Russian Military Mapping Legends

1:5,000 and 1:10,000 mapping

a. Not drawn to scale b. Drawn to scale

- Government and Administrative Buildings
- Military and Industrial Buildings
- Military and Communication Areas
- Subway Entrance
- Fireproof Building
- Prominent Fireproof Building
- Non-fireproof Building
- Non-fireproof Building (non-dwelling)
- Factory, mill, and flour mill, with chimneys
- Factory, mill, and flour mill, without chimneys
- Power Station, drawn to scale
- Hydroelectric Power Station
- Radio Station, drawn to scale
- Telephone Station, drawn to scale
- Abandoned Open-pit Mine or Quarry
- Open-pit Salt Mine
- Pit
- Oil Deposit or Well
- Oil Seepage
- Tailings Pile
- Fuel Storage Tanks
- Natural Gas Tank
- Bench Mark
- Drill Hole
- Burial Mound
- Triangulation Point on Burial Mound
- Single-track Railroad
- Double-track Railroad and Station Building
- Coniferous Forest
- Deciduous Forest
- Mixed Forest
- Lawns
- Citrus Orchard
- Wet Ground
- Scattered Vegetation

243,8 Values for prominent elevations

186.0 Numbers for spot elevations, depth soundings, contour lines, etc.

0,2 Velocity of the current, width of river bed, depth of river

Fractional terms: length and capacity of bridges; depth of fords and condition of the river bottom; height of forest and the diameter of trees

Russian Alphabet (For reference and phonetic interpretation of map text)

А а (A)	З з (Z)	П п (P)	Ч ч (CH)
Б б (B)	И и (I)	Р р (R)	Ш ш (SH)
В в (V)	Й й (Y)	С с (S)	Щ щ (SHCH)
Г г (G)	К к (K)	Т т (T)	ъ (–)
Д д (D)	Л л (L)	У у (U)	ы (Y)
Е е (E)	М м (M)	Ф ф (F)	ь (')
Ё ё (YO)	Н н (N)	Х х (KH)	Э э (E)
Ж ж (ZH)	О о (O)	Ц ц (TS)	Ю ю (YU or IU)
			Я я (YA or IA)

1:25,000 mapping

a. Not drawn to scale b. Drawn to scale

- Government and Administrative Buildings
- Military and Industrial Buildings
- Military and Communication Areas
- Subway Entrance
- Partly Demolished Buildings
- Demolished Buildings
- Built-Up Area with Fireproof Buildings Predominant
- Built-Up Area with Non-Fireproof Buildings Predominant
- Individual Fireproof Building
- Prominent Industrial Building
- Individual Dwelling, Fireproof
- Ruins of an Individual Dwelling
- Factory or Mill Chimney
- Factory or Mill with Chimney
- Factory or Mill without Chimney
- Mine or Open Pit Mine
- Operating Shaft or Mine
- Non-Operating Shaft or Mine
- Salt Mine
- Tailings Pile
- Pit
- Stone Quarry
- Gas Pump or Service Station
- Fuel Storage or Natural Gas Tank
- Oil or Natural Gas Derrick
- Small Hydroelectric Power Station
- Power Station
- Transformer Station
- Cemetery
- Burial Mound (height in metres)
- Triangulation Point on Burial Mound
- Triangulation Point
- Bench Mark
- Bench Mark (monumented)
- Telegraph Office
- Telephone Station
- Radio Station
- Radio Tower
- Airfield or Seaplane Base
- Landing Strip
- Main Highway
- Highway under Construction
- Improved Dirt Road (former truck road)
- Double-track Railroad with First Class Station
- Dismantled Railroad
- Railroad Under Construction
- Shore Embankment
- River or Ditch with Embankment
- Well
- Water Reservoir or Rain Water Pit
- Spring
- Isobath with value
- Heavy (Index) Contour Line
- Contour Line and Value
- Half Contour Line
- Spot Elevation Value
- Coniferous
- Deciduous
- Mixed
- Scrub

Key to Numbers on Mapping

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Historical Mapping & Photography included:

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Kent	1:10,560	1869	3
Essex	1:10,560	1873	4
Essex	1:10,560	1898	5
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Kent	1:10,560	1932	9
Kent	1:10,560	1938	10
Essex	1:10,560	1938	11
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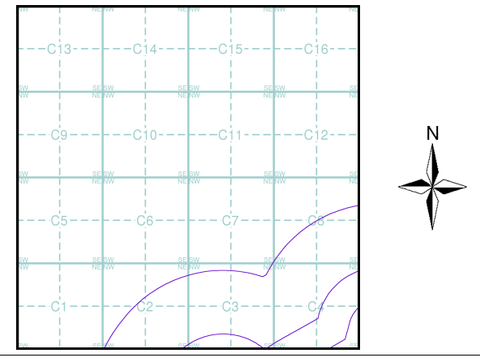
10K Raster Mapping	1:10,000	1999	22
10K Raster Mapping	1:10,000	2006	23
VectorMap Local	1:10,000	2016	24

Russian Map - Slice C



Order Details

Order Number: 107251247_1_1
Customer Ref: 5153187- 211 Tilbury Power Station
National Grid Reference: 564370, 176730
Slice: C
Site Area (Ha): 81.8
Search Buffer (m): 1000

Site Details

Gravesend

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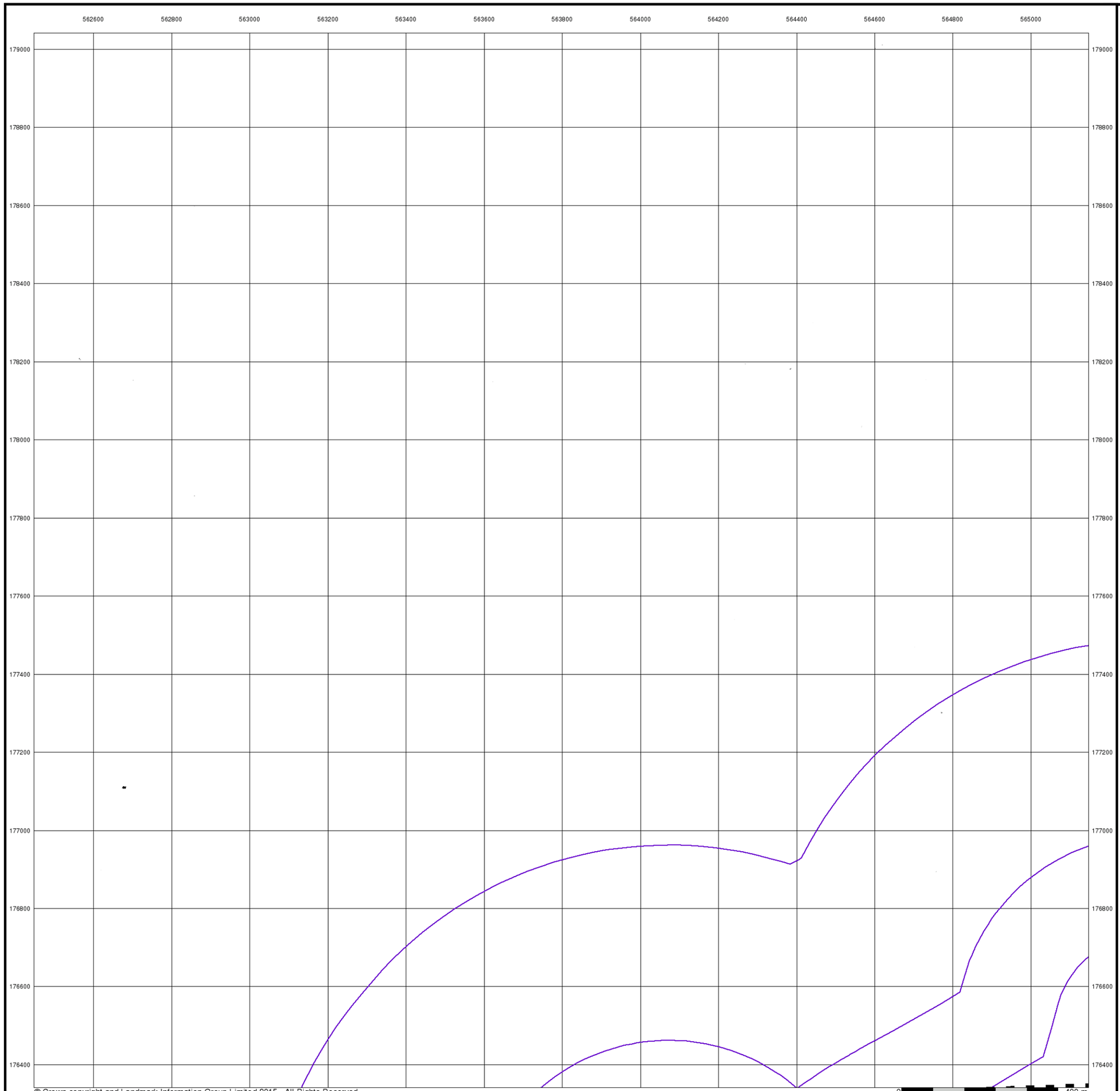
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



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Kent

Published 1869

Source map scale - 1:10,560

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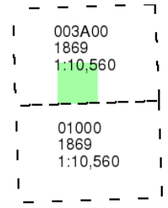
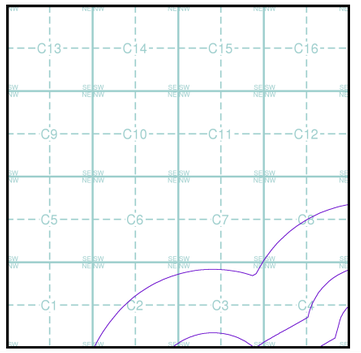
Map Name(s) and Date(s)



Historical Map - Slice C



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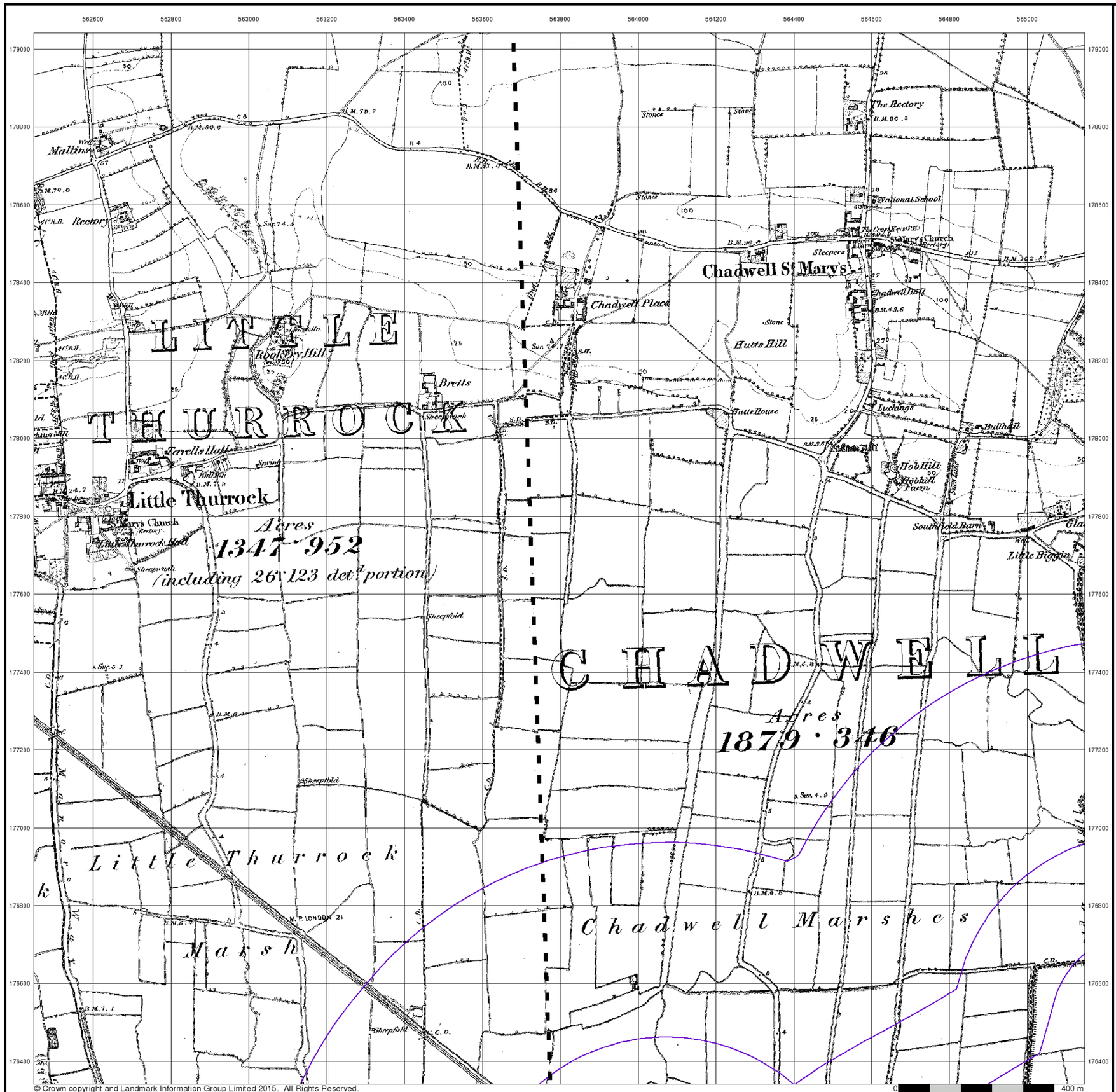

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Essex

Published 1873

Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940`s, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

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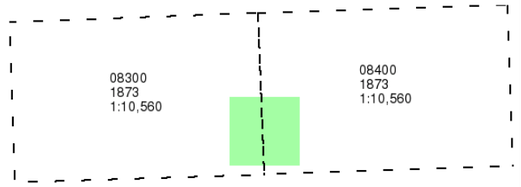
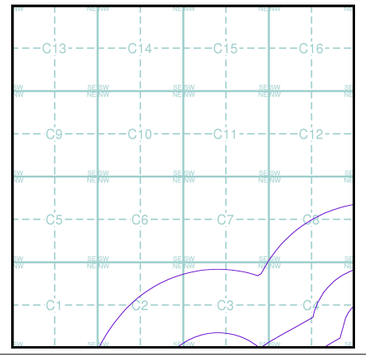


Historical Map - Slice C



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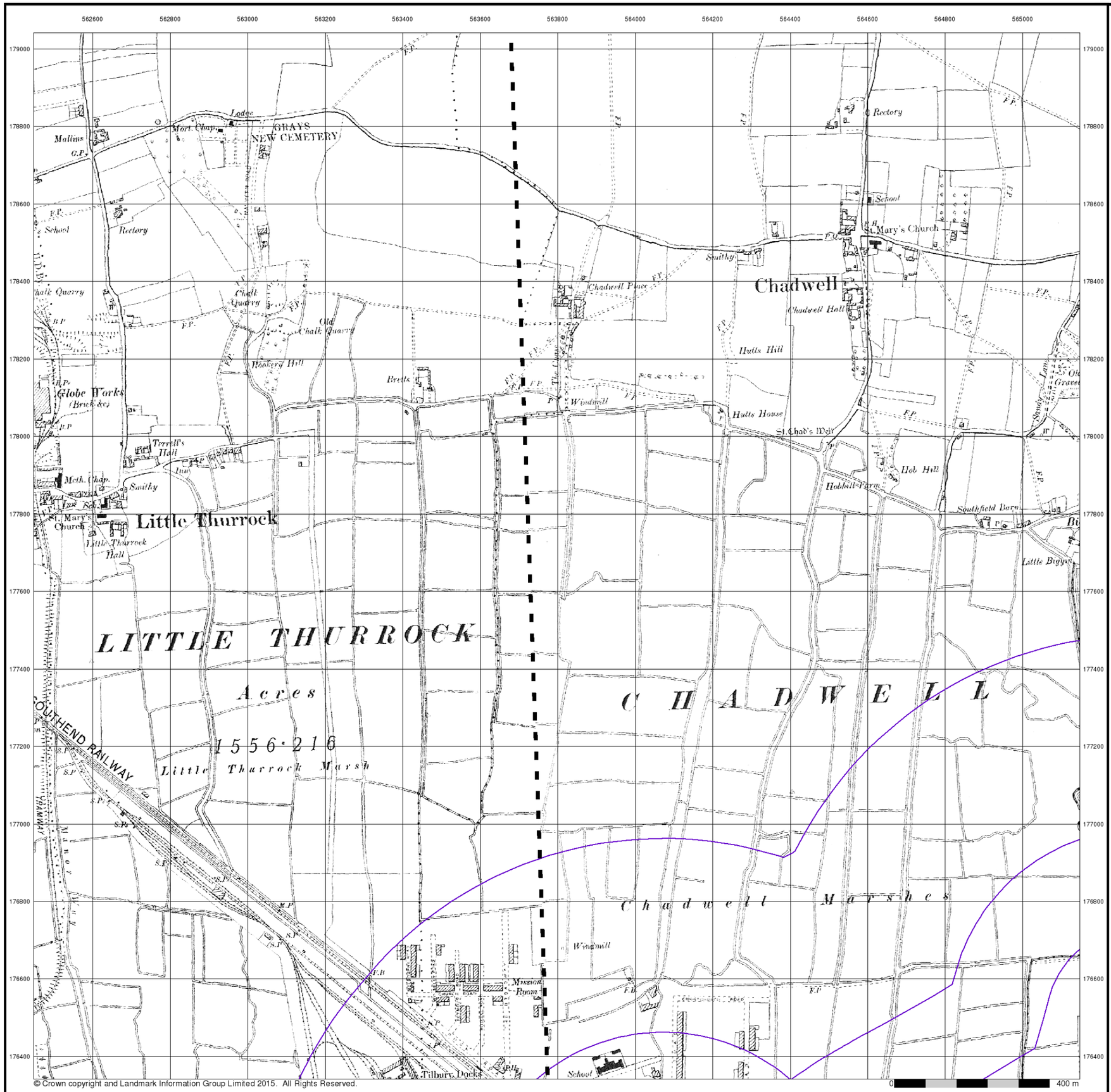

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Essex

Published 1898

Source map scale - 1:10,560

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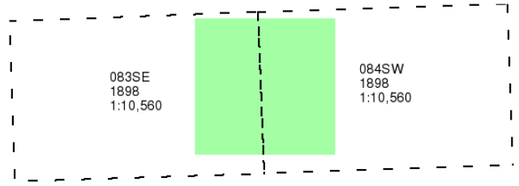
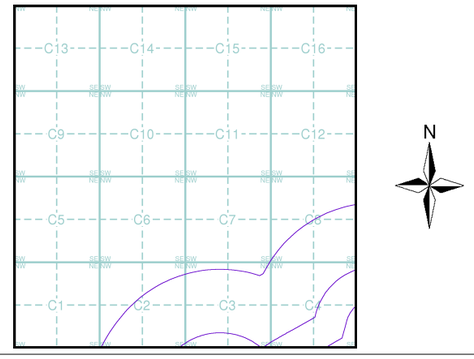
Map Name(s) and Date(s)



Historical Map - Slice C



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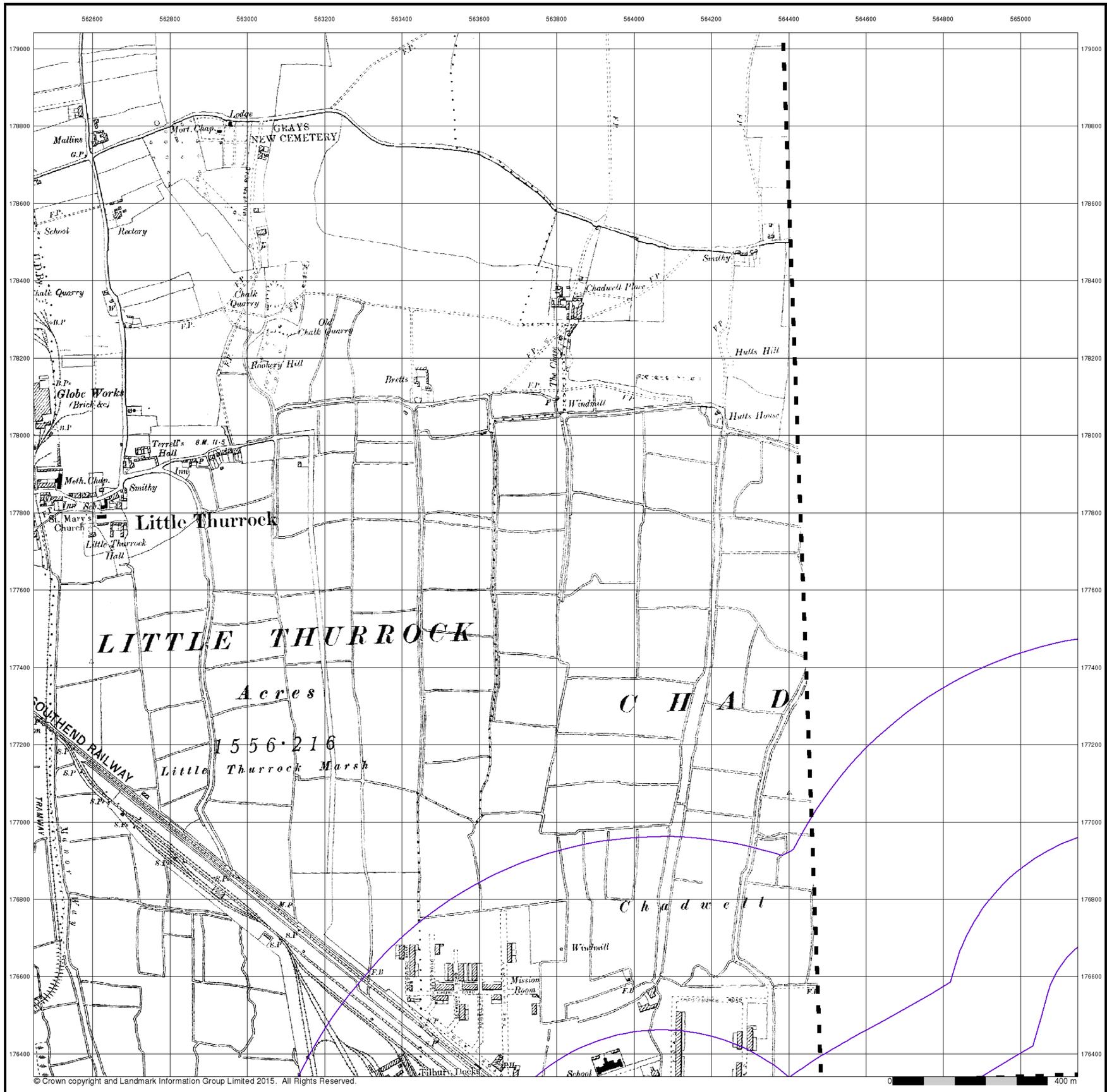

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Kent

Published 1899

Source map scale - 1:10,560

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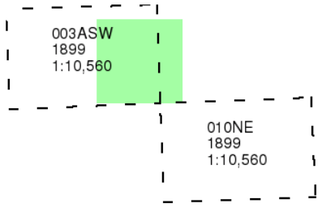
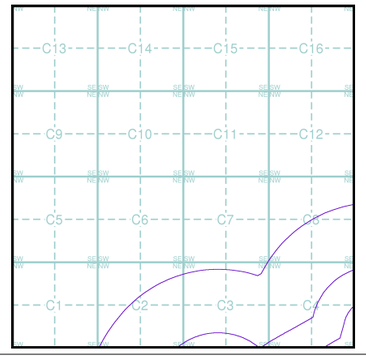


Historical Map - Slice C



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Kent

Published 1909 - 1910

Source map scale - 1:10,560

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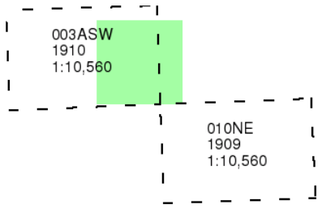
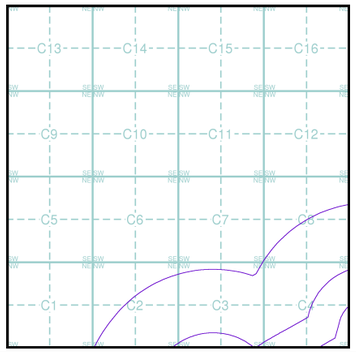
Map Name(s) and Date(s)



Historical Map - Slice C



Order Details

Order Number:	107251247_1_1
Customer Ref:	5153187- 211 Tilbury Power Station
National Grid Reference:	564370, 176730
Slice:	C
Site Area (Ha):	81.8
Search Buffer (m):	1000

Site Details

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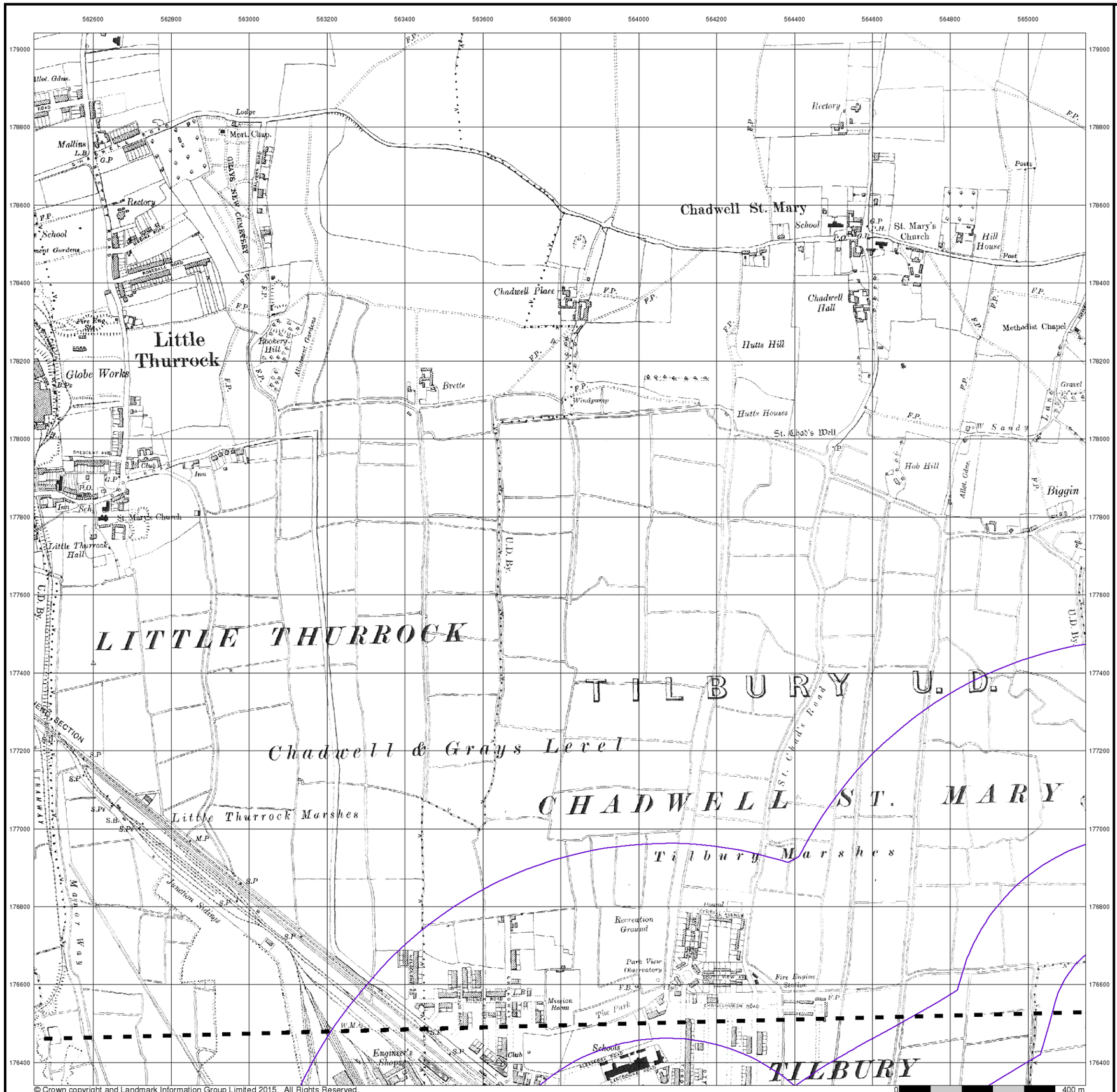

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Published 1923

Source map scale - 1:10,560

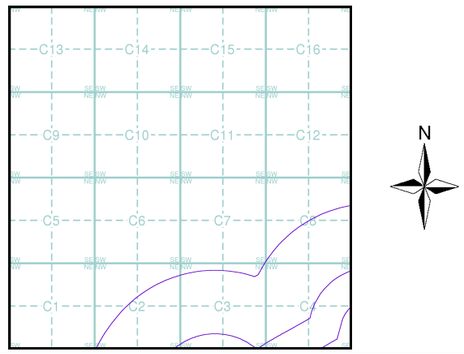
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940`s, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

095NE
1923
1:10,560

095SE
1923
1:10,560

Historical Map - Slice C



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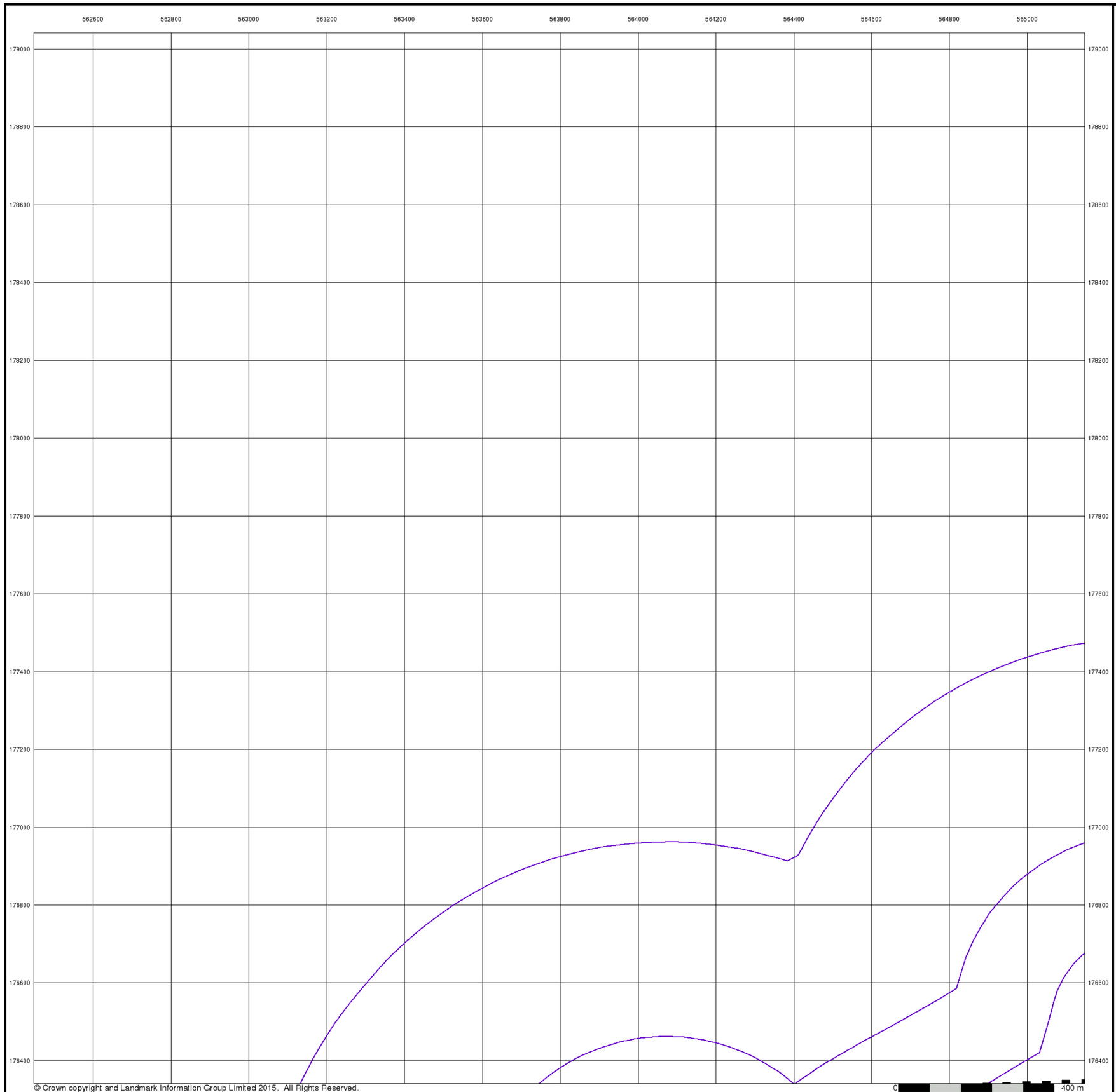

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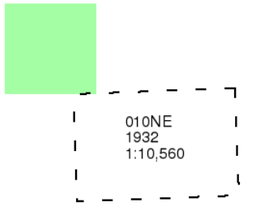
Published 1932

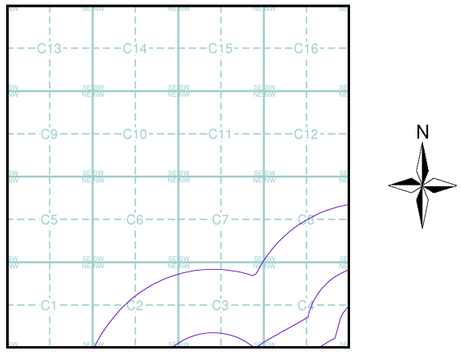
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940`s, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice C



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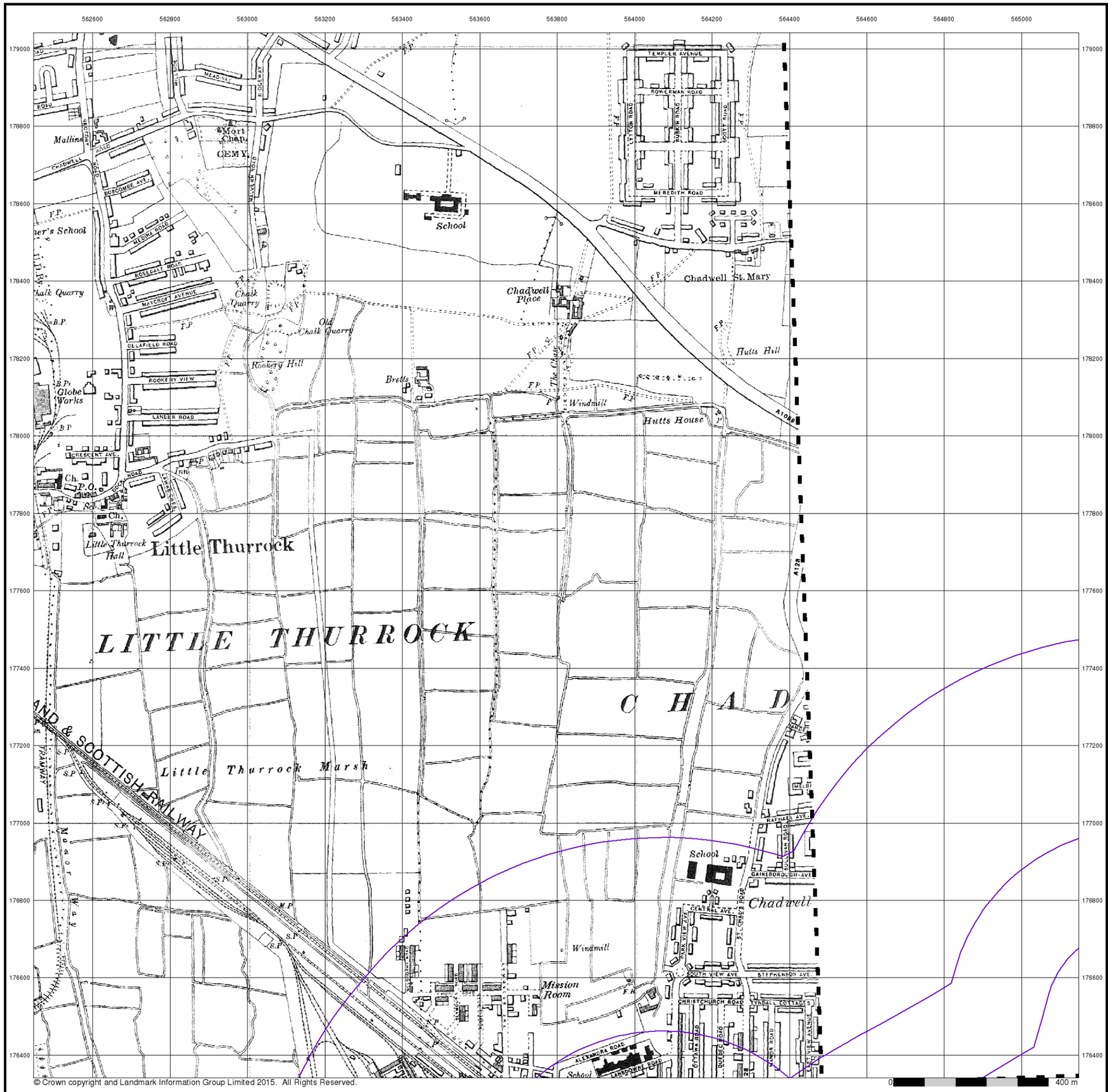

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Kent

Published 1938

Source map scale - 1:10,560

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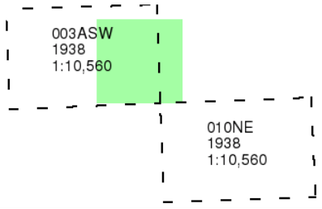
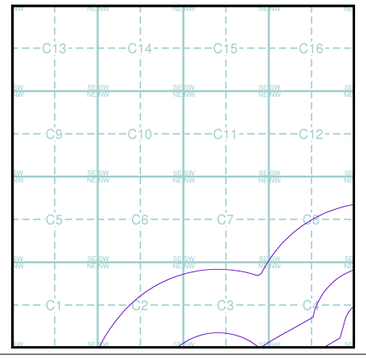


Historical Map - Slice C



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Published 1938

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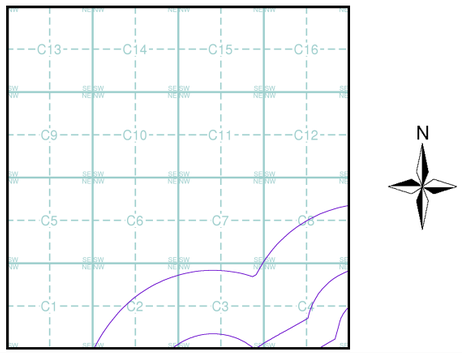
Map Name(s) and Date(s)

095NE
1938
1:10,560

095SE
1938
1:10,560

Historical Map - Slice C



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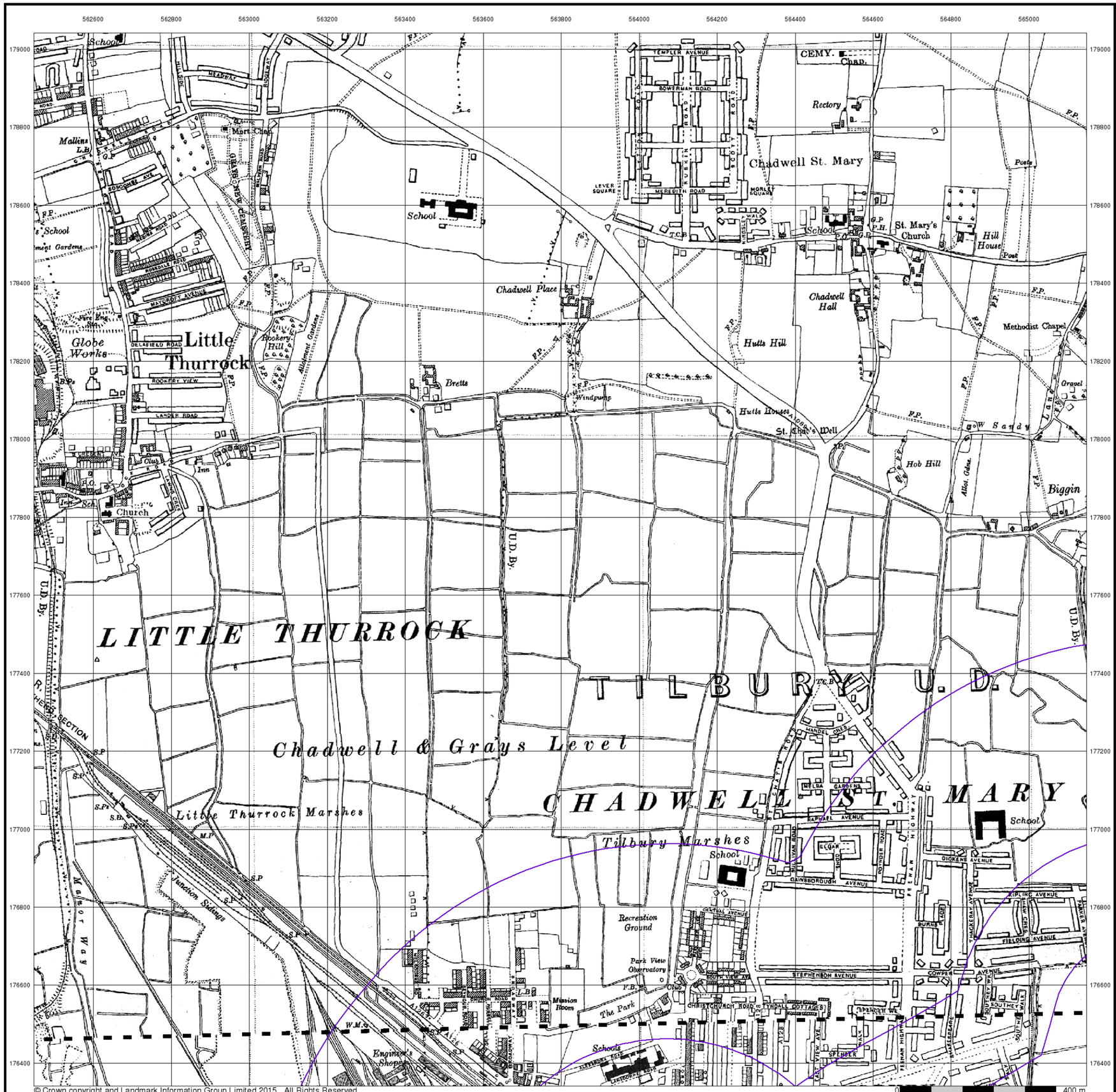

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Essex

Published 1938

Source map scale - 1:10,560

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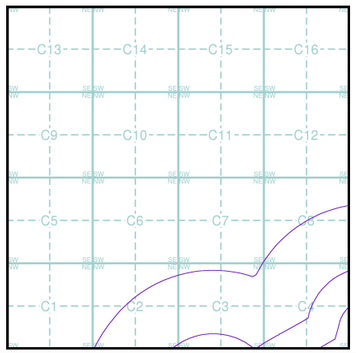
Map Name(s) and Date(s)

095NE
1938
1:10,560

095SE
1938
1:10,560

Historical Map - Slice C



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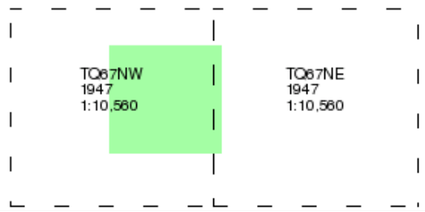
Historical Aerial Photography

Published 1947

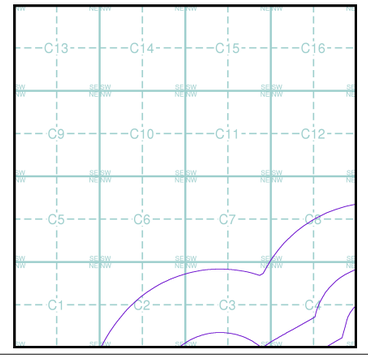
Source map scale - 1:10,560

The Historical Aerial Photos were produced by the Ordnance Survey at a scale of 1:1,250 and 1:10,560 from Air Force photography. They were produced between 1944 and 1951 as an interim measure, pending preparation of conventional mapping, due to post war resource shortages. New security measures in the 1950's meant that every photograph was re-checked for potentially unsafe information with security sites replaced by fake fields or clouds. The original editions were withdrawn and only later made available after a period of fifty years although due to the accuracy of the editing, without viewing both revisions it is not easy to spot the edits. Where available Landmark have included both revisions.

Map Name(s) and Date(s)



Historical Aerial Photography - Slice C



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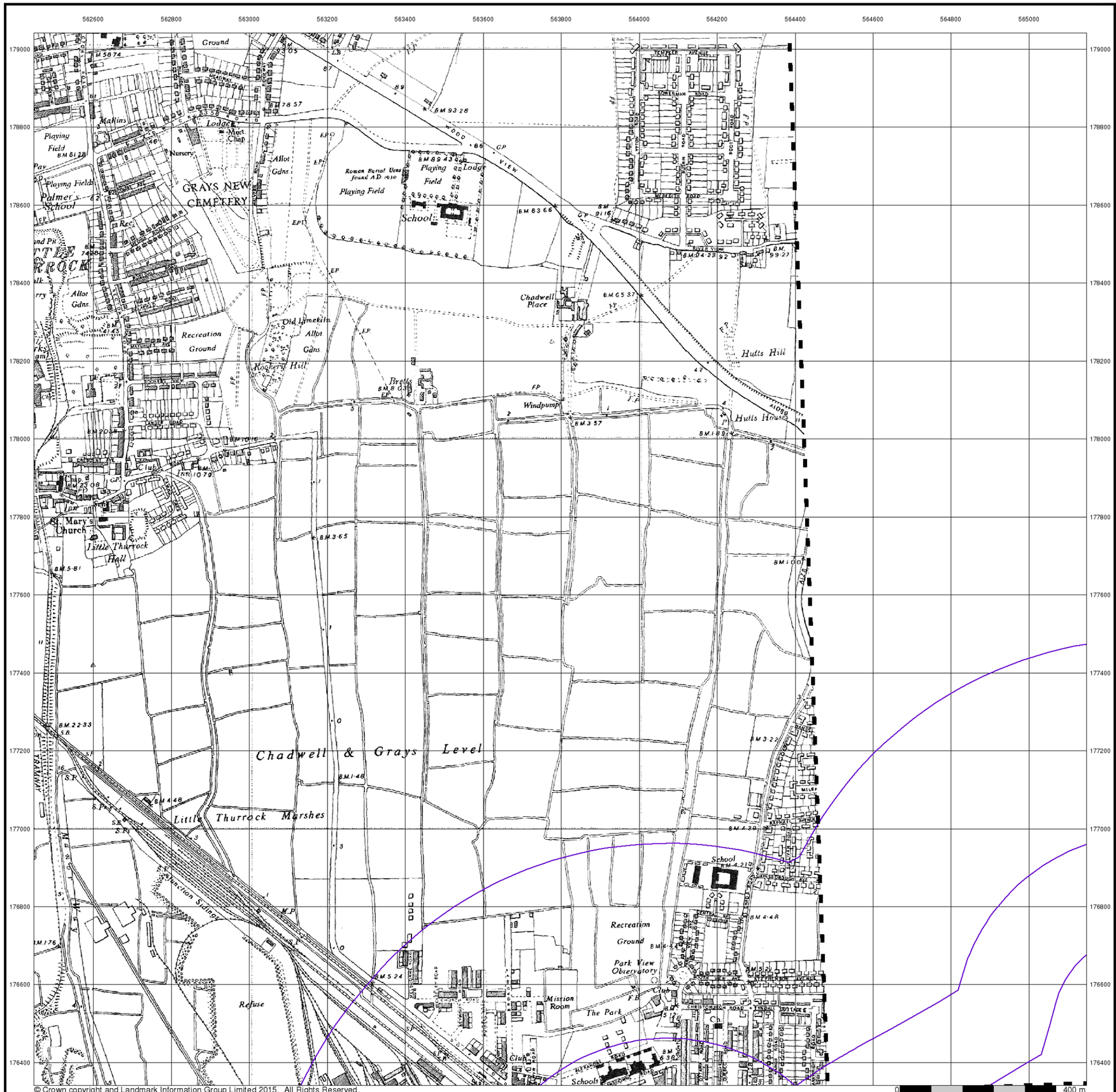

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Kent

Published 1950 - 1951

Source map scale - 1:10,560

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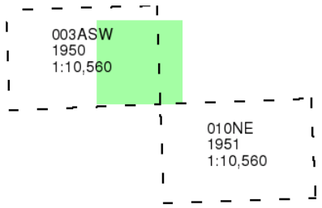
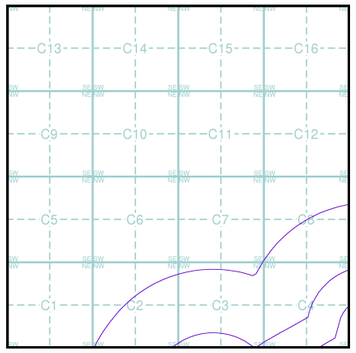


Historical Map - Slice C



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Ordnance Survey Plan

Published 1961

Source map scale - 1:10,000

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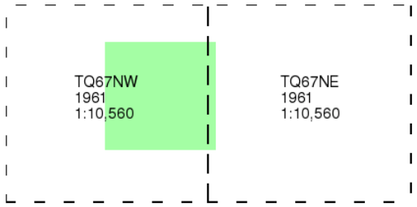
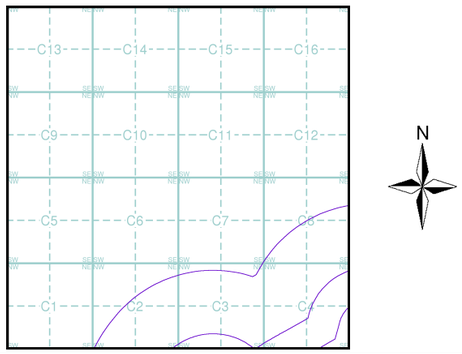
Map Name(s) and Date(s)



Historical Map - Slice C



Order Details

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Ordnance Survey Plan

Published 1966 - 1967

Source map scale - 1:10,000

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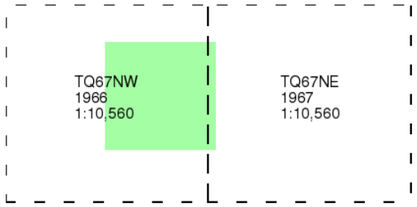
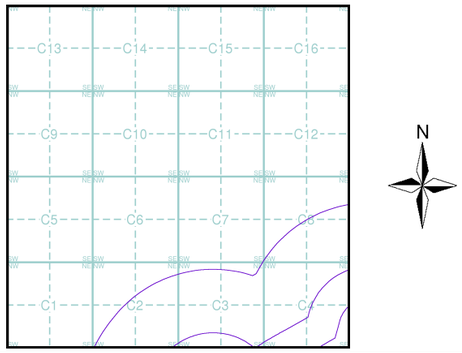


Historical Map - Slice C



Order Details

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Ordnance Survey Plan

Published 1974 - 1975

Source map scale - 1:10,000

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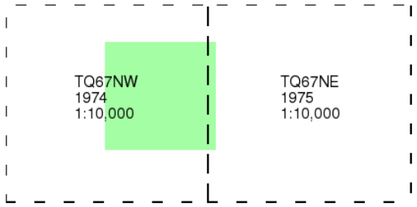
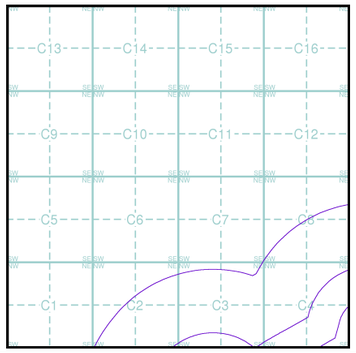


Historical Map - Slice C



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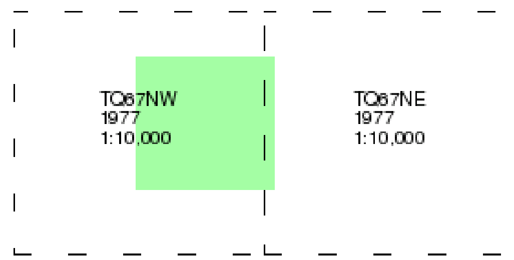
Published 1977

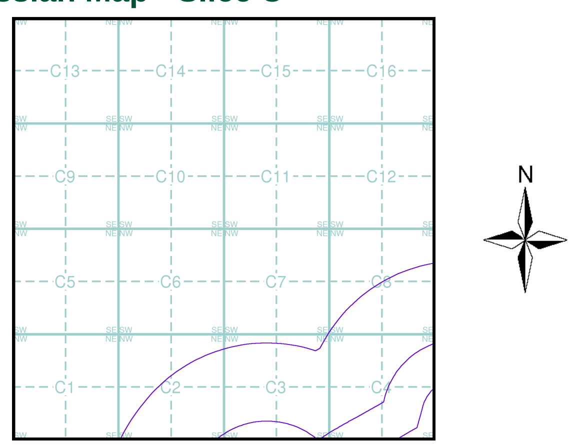
Source map scale - 1:10,000

These maps were produced by the Russian military during the Cold War between 1950 and 1997, and cover 103 towns and cities throughout the U.K. The maps are produced at 1:25,000, 1:10,000 and 1:5,000 scale, and show detailed land use, with colour-coded areas for development, green areas, and non-developed areas. Buildings are coloured black and important building uses (such as hospitals, post offices, factories etc.) are numbered, with a numbered key describing their use.
They were produced by the Russians for the benefit of navigation, as well as strategic military sites and transport hubs, for use if they were to have invaded the U.K. The detailed information provided indicates that the areas were surveyed using land-based personnel, on the ground, in the cities that are mapped.

Map Name(s) and Date(s)



Russian Map - Slice C



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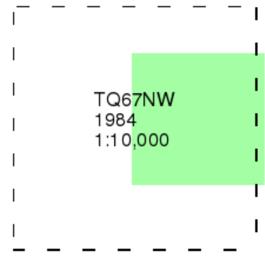
Ordnance Survey Plan

Published 1984

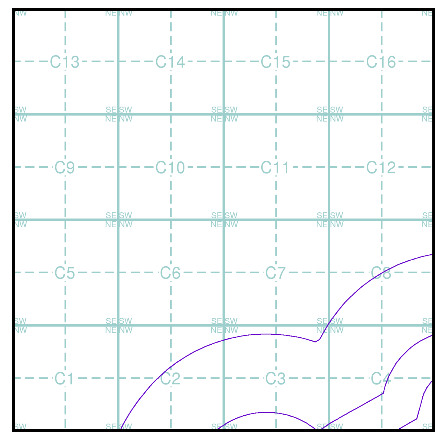
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940`s, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice C



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Order Details

Order Number: 107251247_1_1
Customer Ref: 5153187- 211 Tilbury Power Station
National Grid Reference: 564370, 176730
Slice: C
Site Area (Ha): 81.8
Search Buffer (m): 1000

Site Details

Gravesend

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Ordnance Survey Plan

Published 1991 - 1993

Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940`s, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

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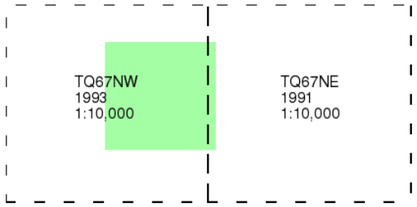
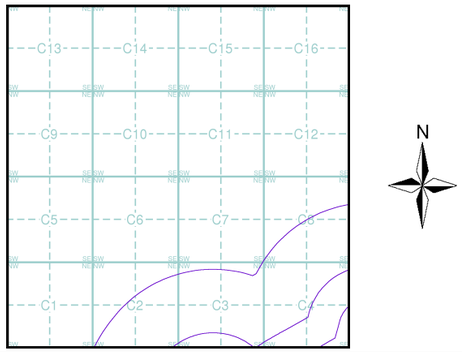


Historical Map - Slice C



Order Details

Order Number:	107251247_1_1
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Site Details

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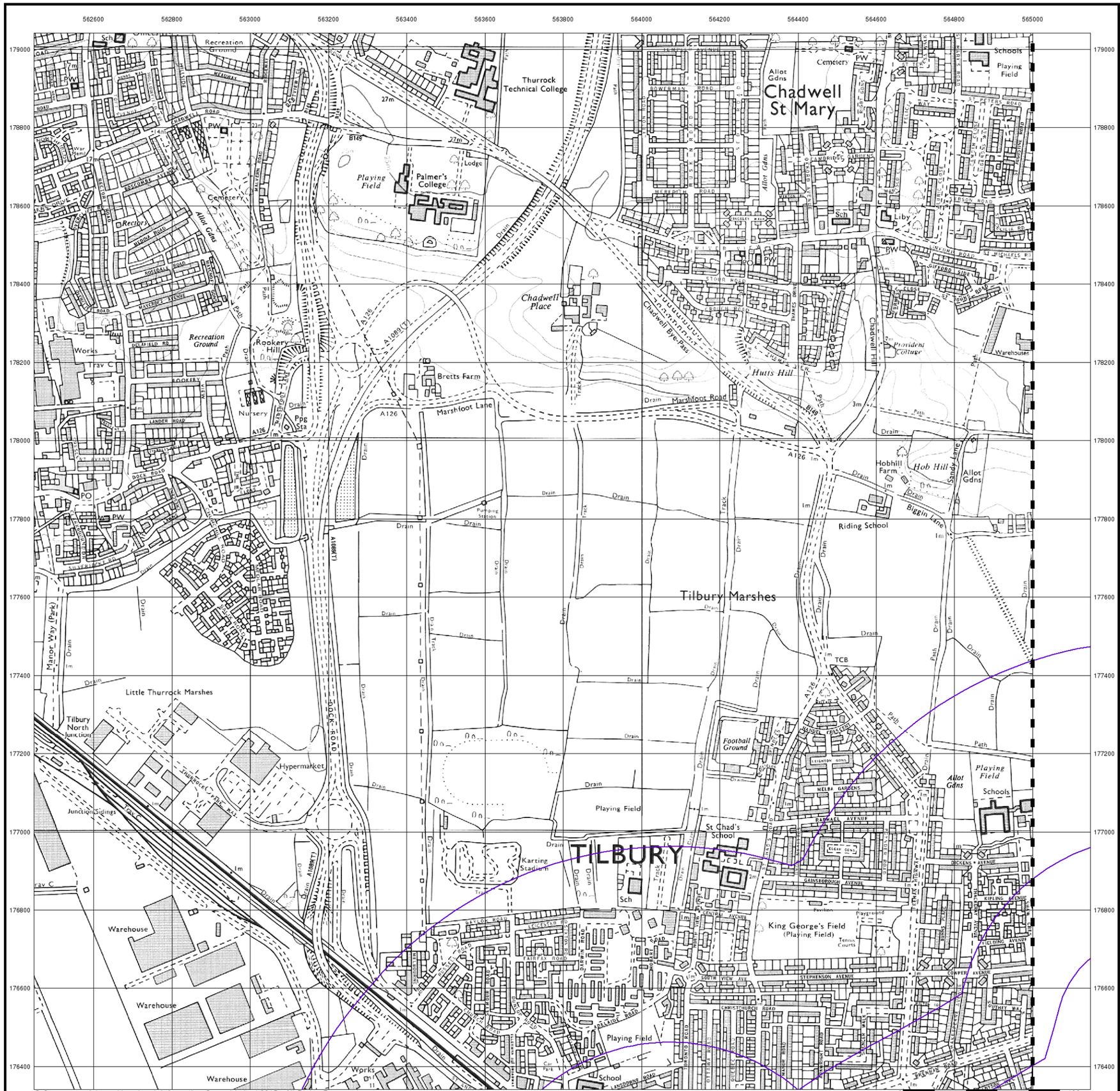

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Ordnance Survey Plan

Published 1994

Source map scale - 1:10,000

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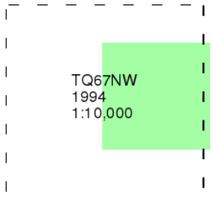
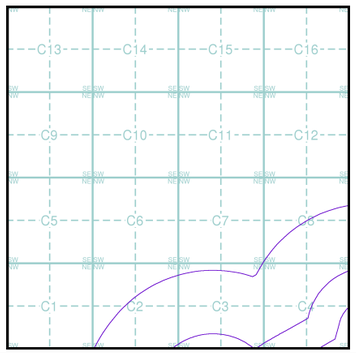


Historical Map - Slice C



Order Details

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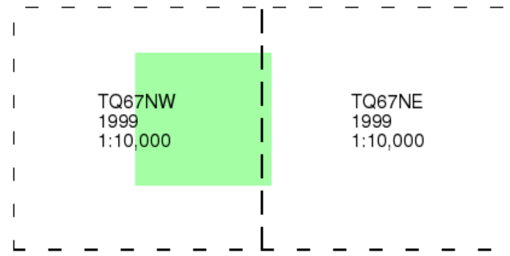
10k Raster Mapping

Published 1999

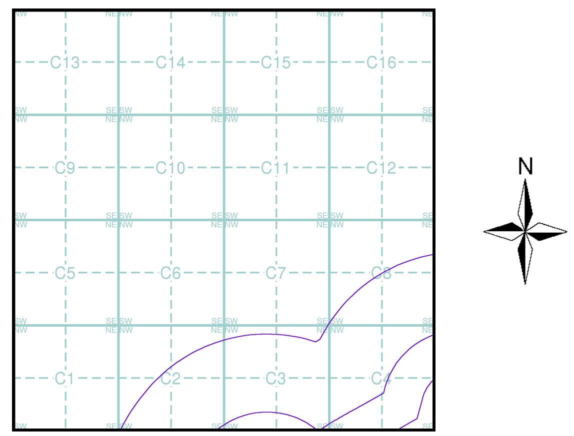
Source map scale - 1:10,000

The historical maps shown were produced from the Ordnance Survey`s 1:10,000 colour raster mapping. These maps are derived from Landplan which replaced the old 1:10,000 maps originally published in 1970. The data is highly detailed showing buildings, fences and field boundaries as well as all roads, tracks and paths. Road names are also included together with the relevant road number and classification. Boundary information depiction includes county, unitary authority, district, civil parish and constituency.

Map Name(s) and Date(s)



Historical Map - Slice C



Order Details

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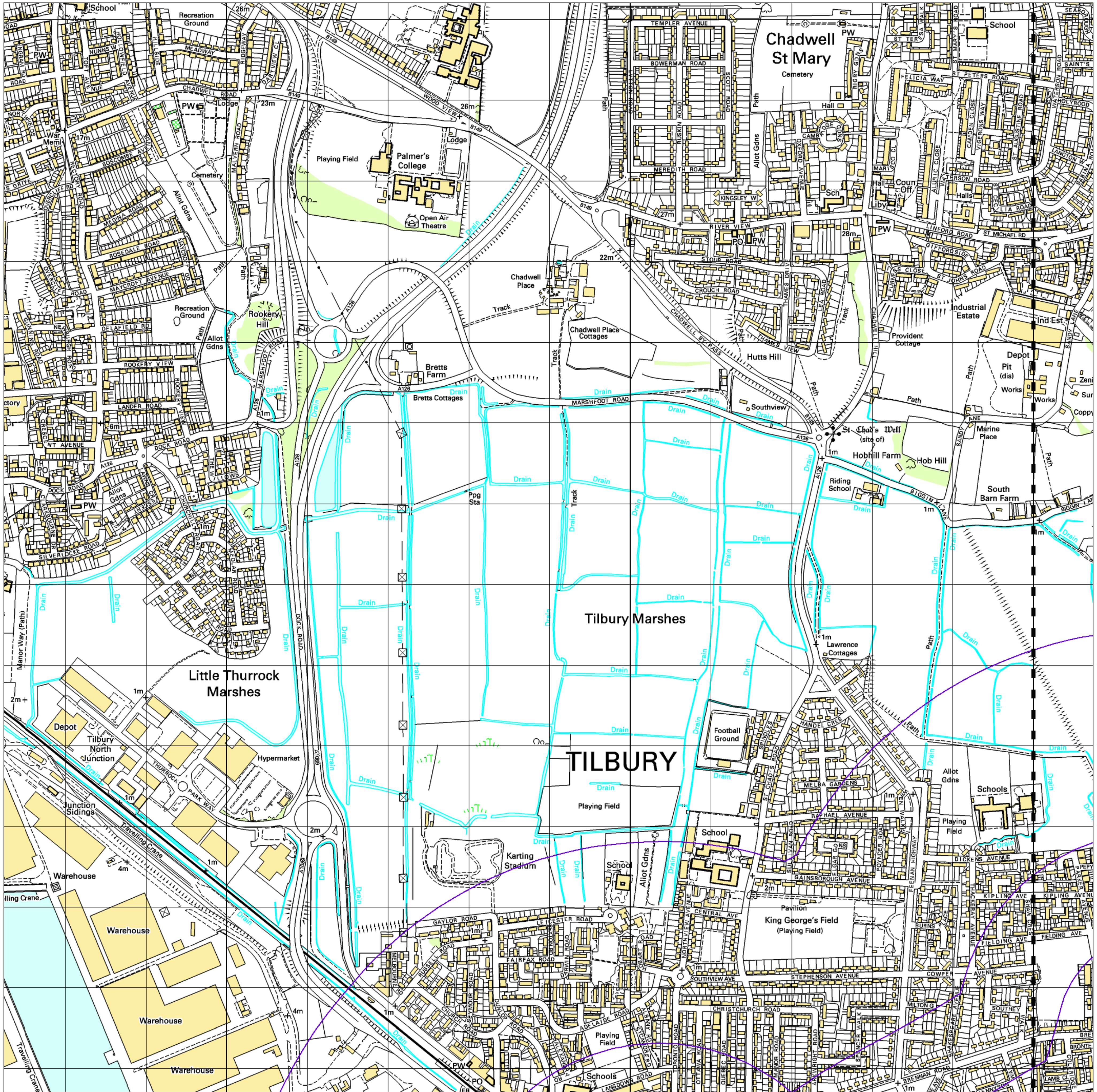

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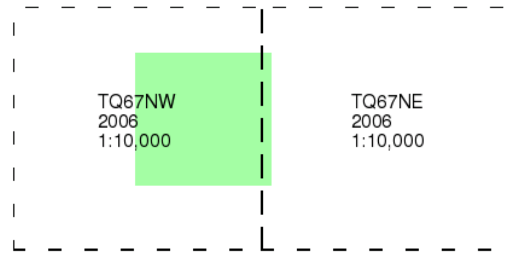
10k Raster Mapping

Published 2006

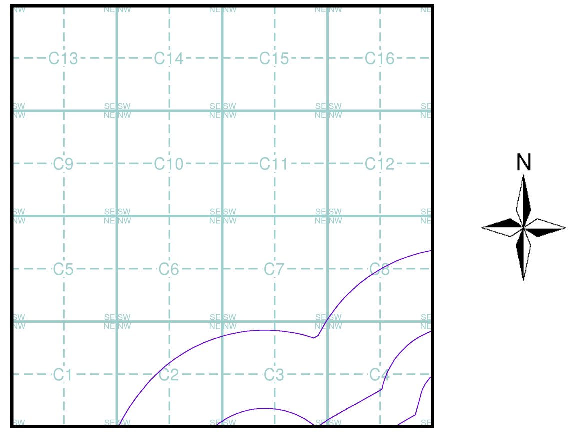
Source map scale - 1:10,000

The historical maps shown were produced from the Ordnance Survey`s 1:10,000 colour raster mapping. These maps are derived from Landplan which replaced the old 1:10,000 maps originally published in 1970. The data is highly detailed showing buildings, fences and field boundaries as well as all roads, tracks and paths. Road names are also included together with the relevant road number and classification. Boundary information depiction includes county, unitary authority, district, civil parish and constituency.

Map Name(s) and Date(s)



Historical Map - Slice C



Order Details

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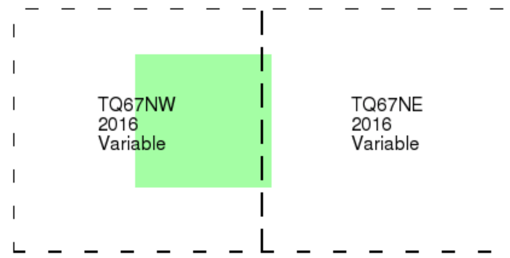
VectorMap Local

Published 2016

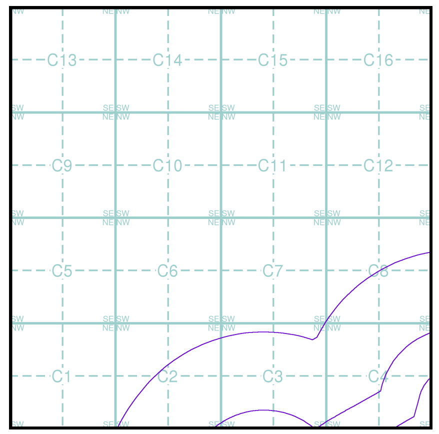
Source map scale - 1:10,000

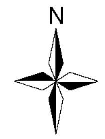
VectorMap Local (Raster) is Ordnance Survey's highest detailed 'backdrop' mapping product. These maps are produced from OS's VectorMap Local, a simple vector dataset at a nominal scale of 1:10,000, covering the whole of Great Britain, that has been designed for creating graphical mapping. OS VectorMap Local is derived from large-scale information surveyed at 1:1250 scale (covering major towns and cities),1:2500 scale (smaller towns, villages and developed rural areas), and 1:10 000 scale (mountain, moorland and river estuary areas).

Map Name(s) and Date(s)



Historical Map - Slice C





Order Details

Order Number: 107251247_1_1
Customer Ref: 5153187- 211 Tilbury Power Station
National Grid Reference: 564370, 176730
Slice: C
Site Area (Ha): 81.8
Search Buffer (m): 1000

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General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Map ID
- Several of Type at Location

Agency and Hydrological

- Contaminated Land Register Entry or Notice (Location)
- Contaminated Land Register Entry or Notice
- Discharge Consent
- Enforcement or Prohibition Notice
- Integrated Pollution Control
- Integrated Pollution Prevention Control
- Local Authority Integrated Pollution Prevention and Control
- Local Authority Pollution Prevention and Control
- Local Authority Pollution Prevention and Control Enforcement
- Pollution Incident to Controlled Waters
- Prosecution Relating to Authorised Processes
- Prosecution Relating to Controlled Waters
- Registered Radioactive Substance
- River Network or Water Feature
- River Quality Sampling Point
- Substantiated Pollution Incident Register
- Water Abstraction
- Water Industry Act Referral

Hazardous Substances

- COMAH Site
- Explosive Site
- NIHHS Site
- Planning Hazardous Substance Consent
- Planning Hazardous Substance Enforcement

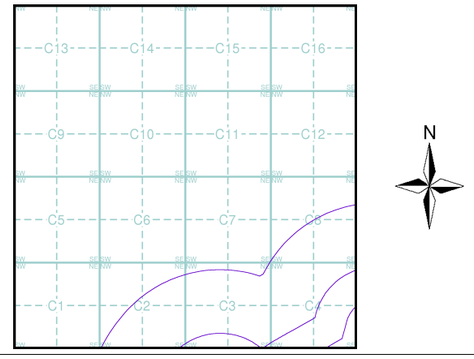
Geological

- BGS Recorded Mineral Site

Waste

- BGS Recorded Landfill Site (Location)
- BGS Recorded Landfill Site
- EA Historic Landfill (Buffered Point)
- EA Historic Landfill (Polygon)
- Integrated Pollution Control Registered Waste Site
- Licensed Waste Management Facility (Landfill Boundary)
- Licensed Waste Management Facility (Location)
- Local Authority Recorded Landfill Site (Location)
- Local Authority Recorded Landfill Site
- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Water)
- Potentially Infilled Land (Water)
- Potentially Infilled Land (Water)
- Registered Landfill Site
- Registered Landfill Site (Location)
- Registered Landfill Site (Point Buffered to 100m)
- Registered Landfill Site (Point Buffered to 250m)
- Registered Waste Transfer Site (Location)
- Registered Waste Transfer Site
- Registered Waste Treatment or Disposal Site (Location)
- Registered Waste Treatment or Disposal Site

Site Sensitivity Map - Slice C



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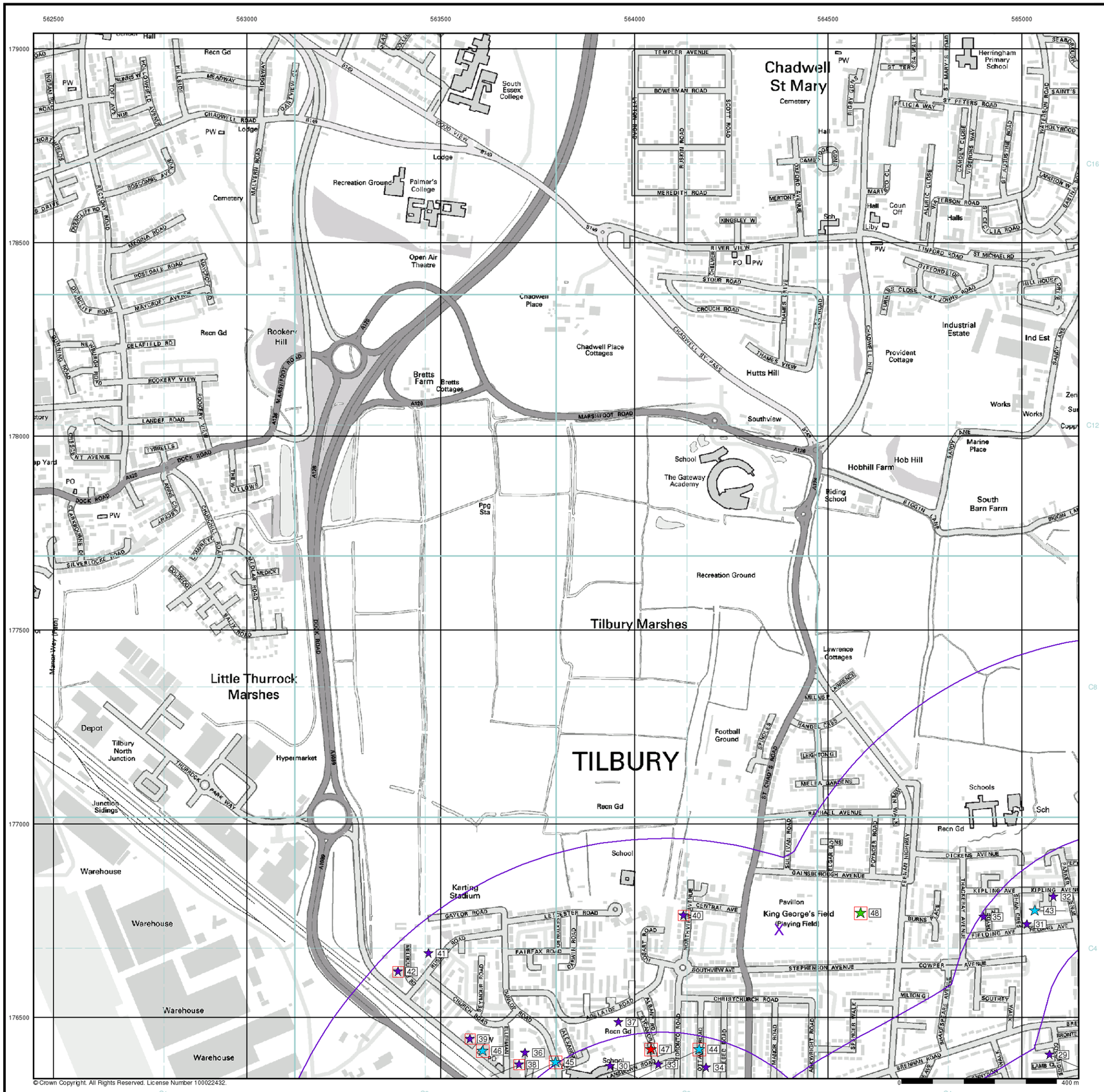

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Industrial Land Use Map

General

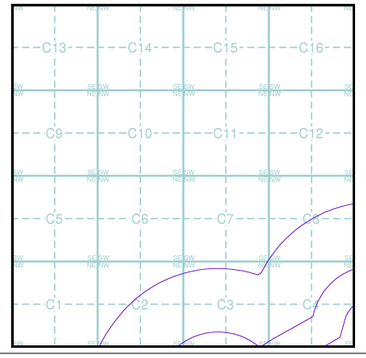
Specified Site | Specified Buffer(s) | Bearing Reference Point

Slice | Map ID

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry
- Gas Pipeline
- Points of Interest - Commercial Services
- Points of Interest - Education and Health
- Points of Interest - Manufacturing and Production
- Points of Interest - Public Infrastructure
- Points of Interest - Recreational and Environmental
- Underground Electrical Cables

Industrial Land Use Map - Slice C



Order Details

Order Number:	107251247_1_1
Customer Ref:	5153187- 211 Tilbury Power Station
National Grid Reference:	564370, 176730
Slice:	C
Site Area (Ha):	81.8
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Site Details

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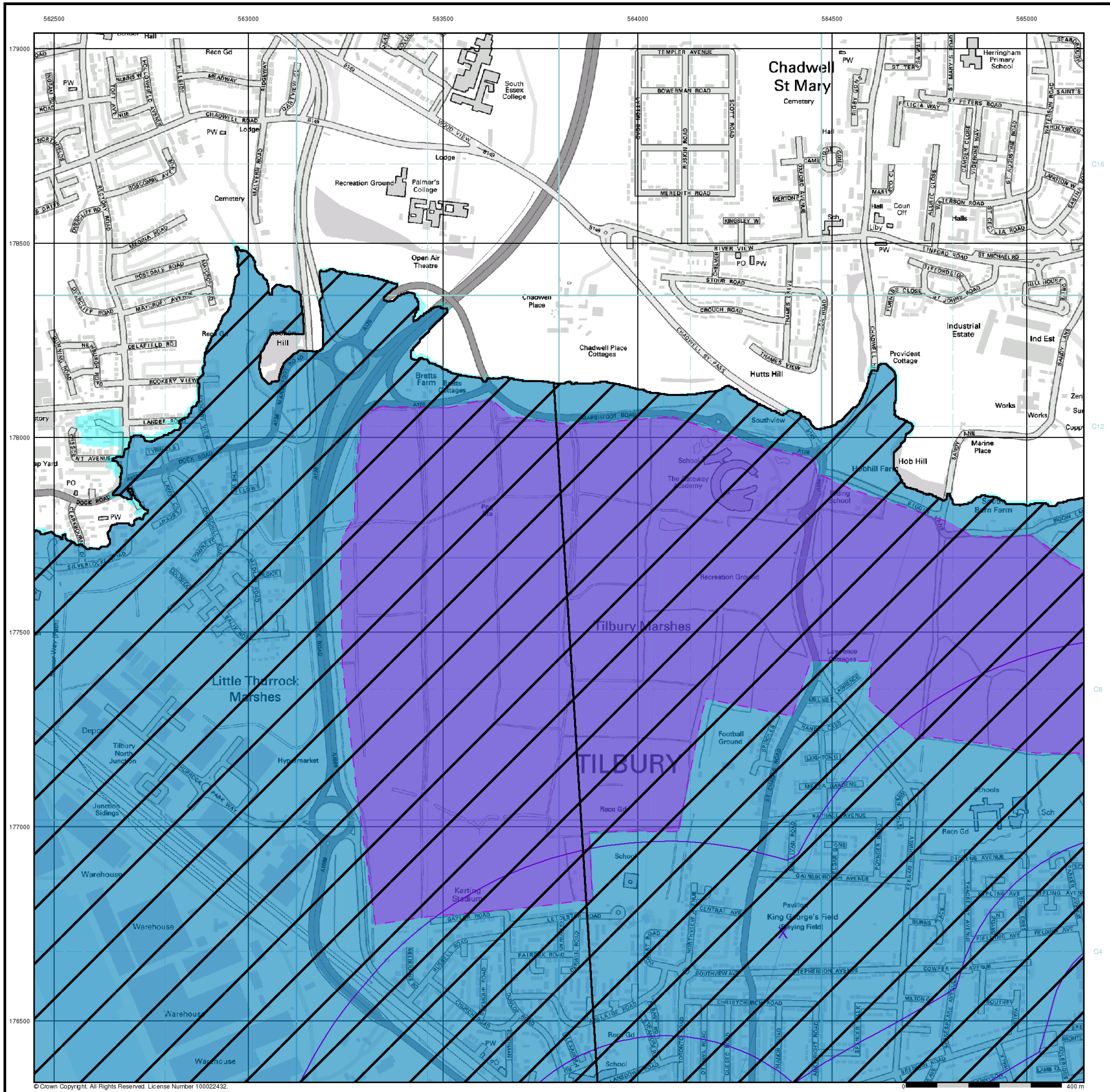

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LANDMARK INFORMATION GROUP®

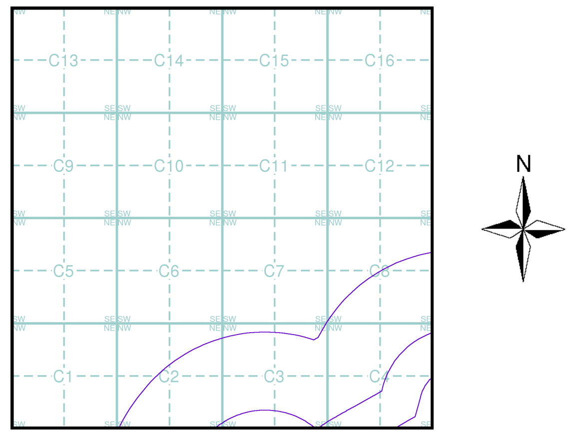
General

- Specified Site
- Specified Buffer(s)
- X Bearing Reference Point

Agency and Hydrological (Flood)

- Extreme Flooding from Rivers or Sea without Defences (Zone 2)
- Flooding from Rivers or Sea without Defences (Zone 3)
- Area Benefiting from Flood Defence
- Flood Water Storage Areas
- Flood Defence

Flood Map - Slice C



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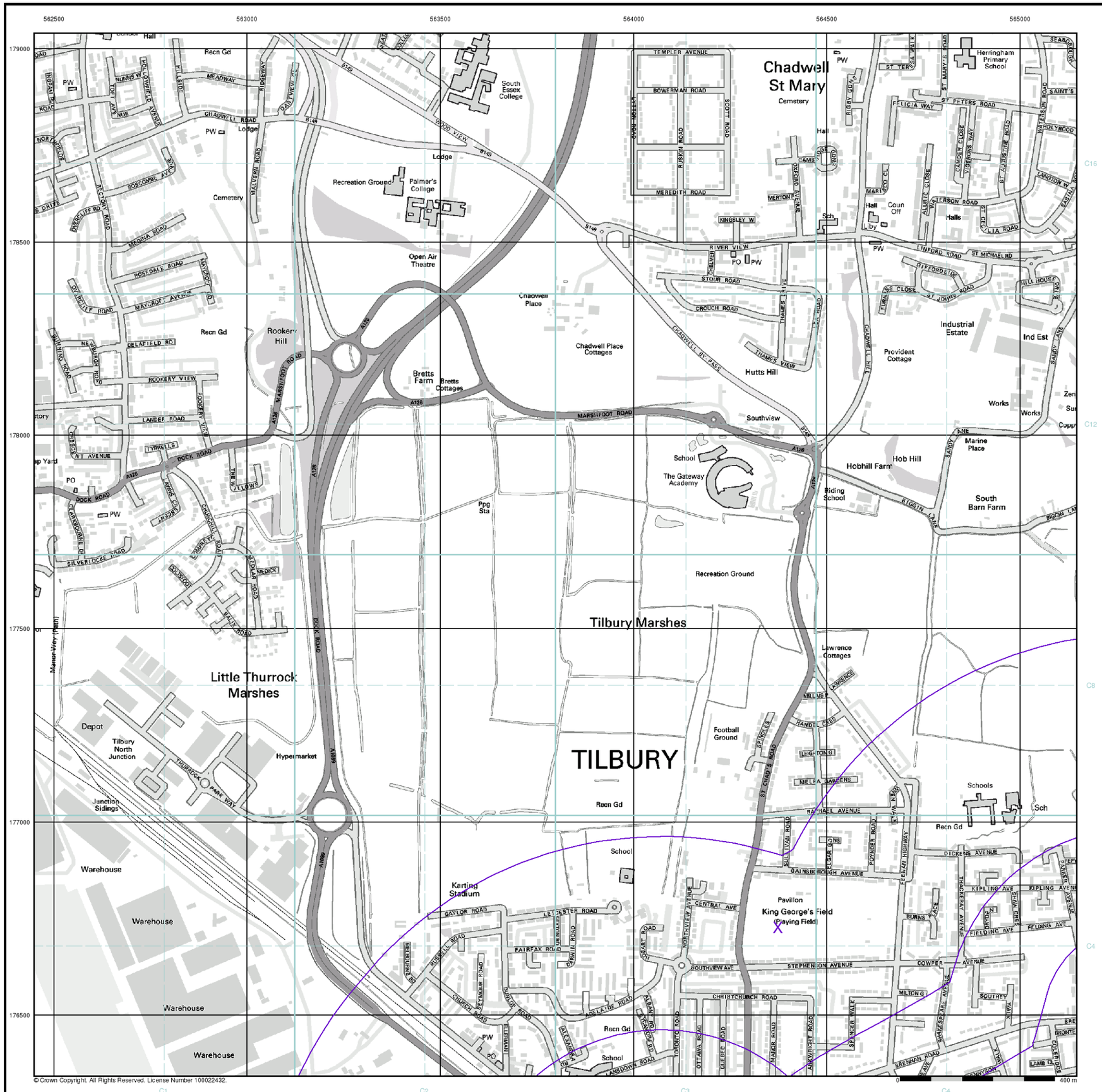

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LANDMARK INFORMATION GROUP®

General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Map ID
- Several of Type at Location

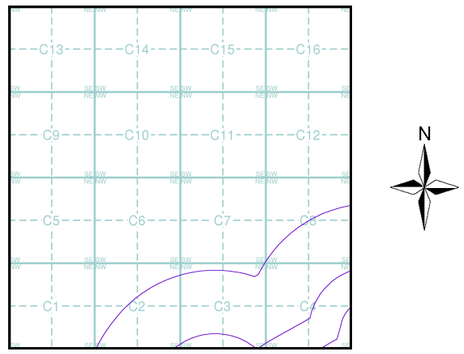
Agency and Hydrological (Boreholes)

- BGS Borehole Depth 0 - 10m
- BGS Borehole Depth 10 - 30m
- BGS Borehole Depth 30m +
- Confidential
- Other

For Borehole information please refer to the Borehole .csv file which accompanied this slice.

A copy of the BGS Borehole Ordering Form is available to download from the Support section of www.envirocheck.co.uk.

Borehole Map - Slice C



Order Details

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Site Details

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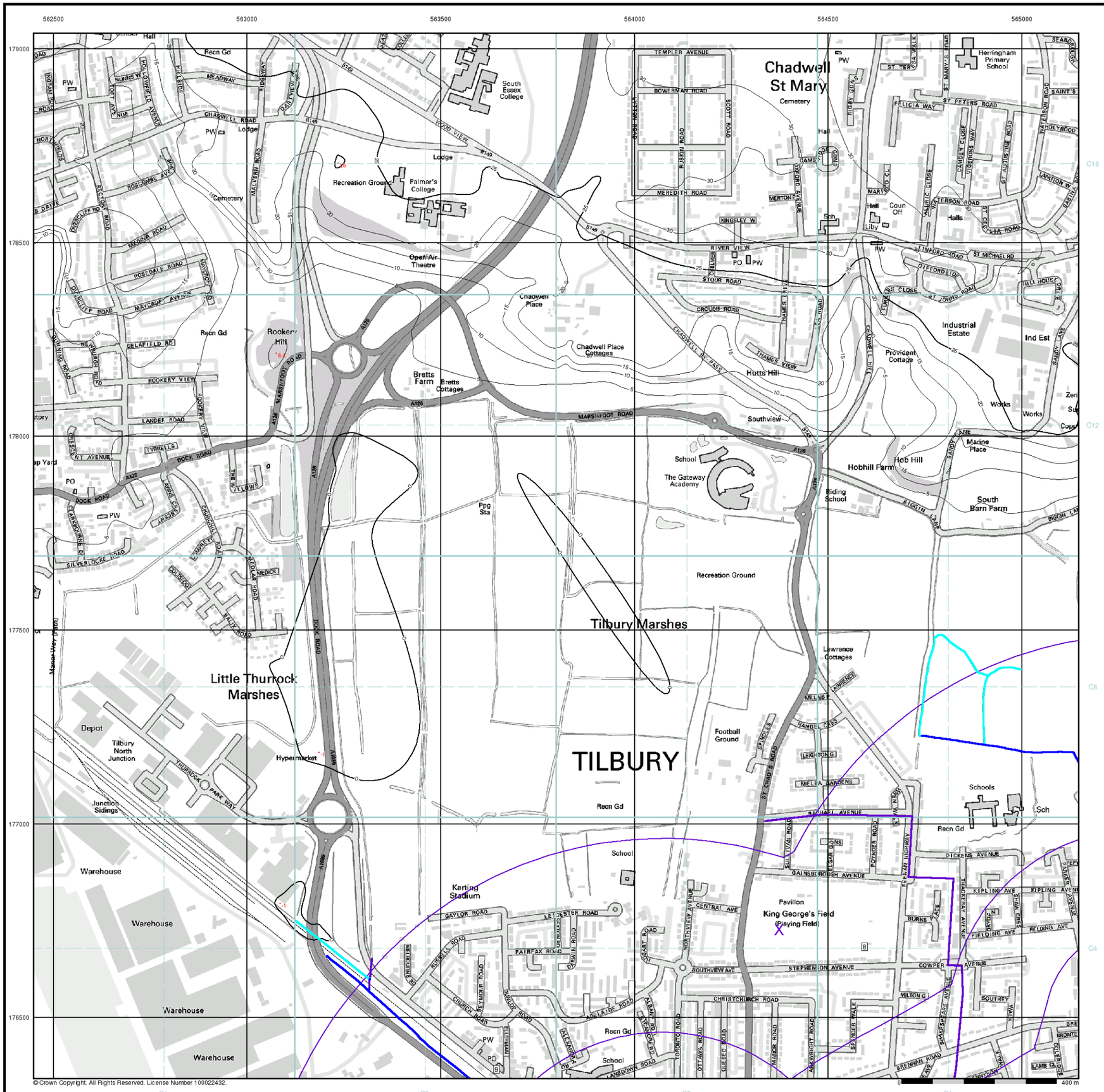

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General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Map ID

Detailed River Network Data

- Primary River
- Secondary River
- Tertiary River
- Canal
- Canal Tunnel
- Undefined River
- Lake/Reservoir
- Offline Drainage Feature
- Extended Culvert (greater than 50m)
- Underground River (inferred)
- Underground River (local knowledge)
- Downstream of High Water Mark
- Downstream of Seaward Extension
- Not assigned River feature

Contours (height in metres)

Standard Contour 105 100 95

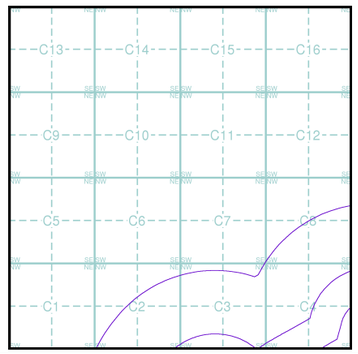
Master Contour

Spot Height *167.3

MLW Mean Low Water

MHW Mean High Water

EA/NRW Detailed River Network Map - Slice C



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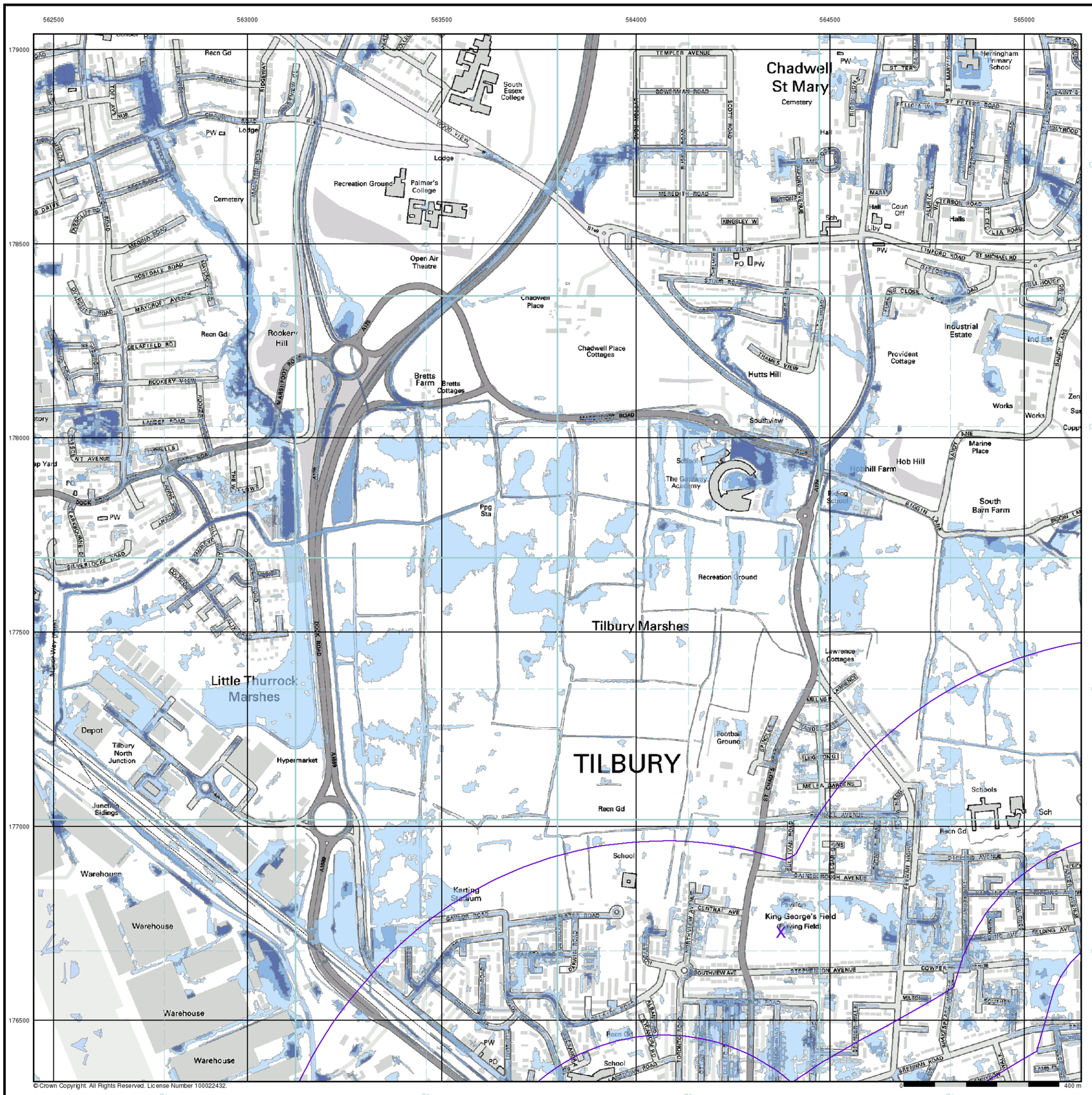

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General

- Specified Site
- Specified Buffer(s)
- X Bearing Reference Point

Risk of Flooding from Surface Water

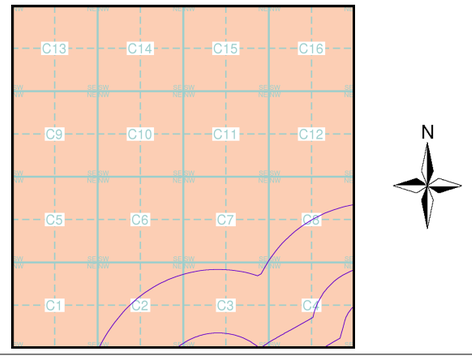
- High - 30 Year Return
- Medium - 100 Year Return
- Low - 1000 Year Return

Suitability

See the suitability map below

- National to county
- County to town
- Town to street
- Street to parcels of land
- Property

EA/NRW Suitability Map - Slice C



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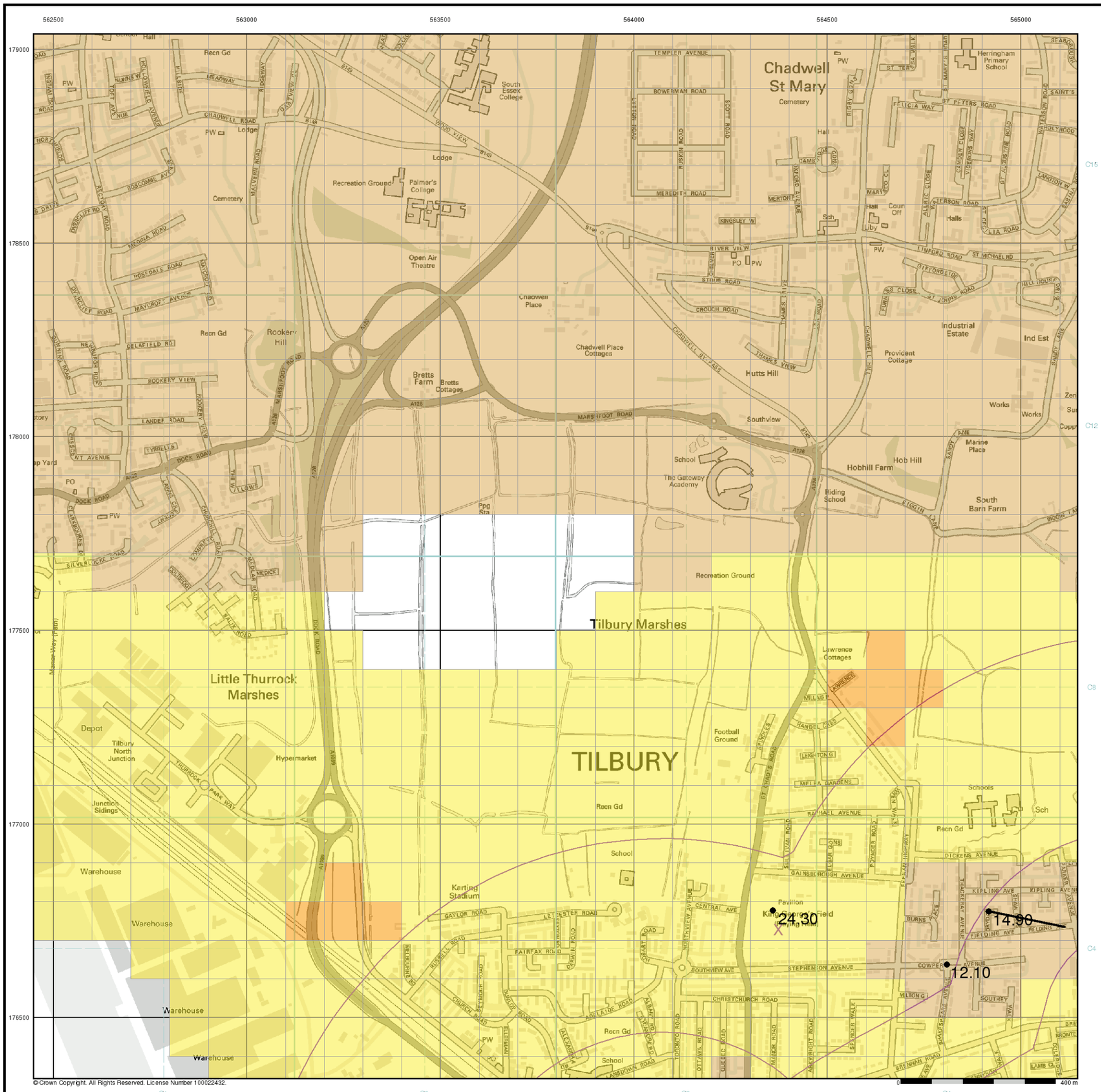

0 400 m

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General

Specified Site | Specified Buffer(s) | X Bearing Reference Point

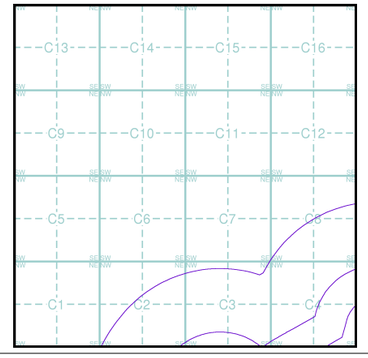
Urban Soil Chemistry Arsenic

BGS Urban Soil Chemistry Measured Concentration Values (mg/kg)

Arsenic Concentrations mg/kg

- < 15
- 15 - 25
- 25 - 35
- 35 - 45
- 45 - 60
- 60 - 120
- > 120

Urban Soil Chemistry Arsenic - Slice C



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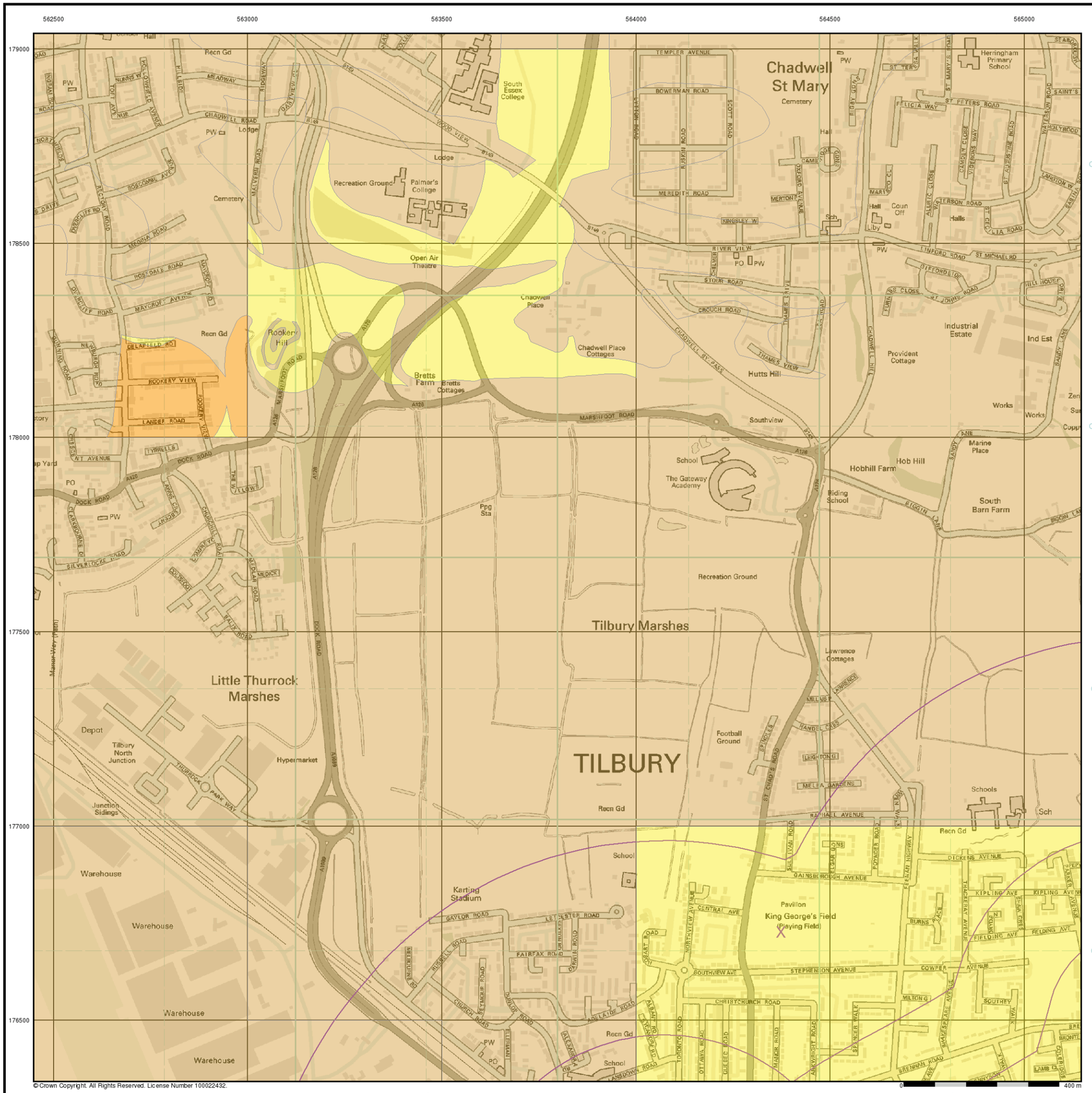

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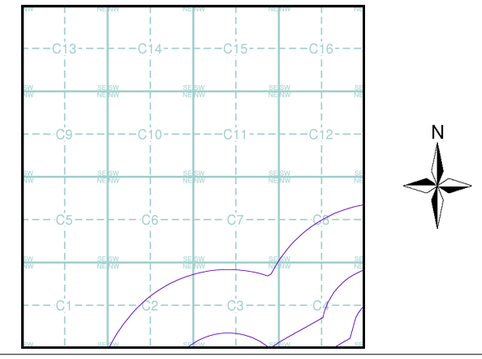
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Arsenic

Arsenic Concentrations mg/kg

- < 15
- 15 - 25
- 25 - 35
- 35 - 45
- 45 - 60
- 60 - 120
- > 120

Estimated Soil Chemistry Arsenic - Slice C



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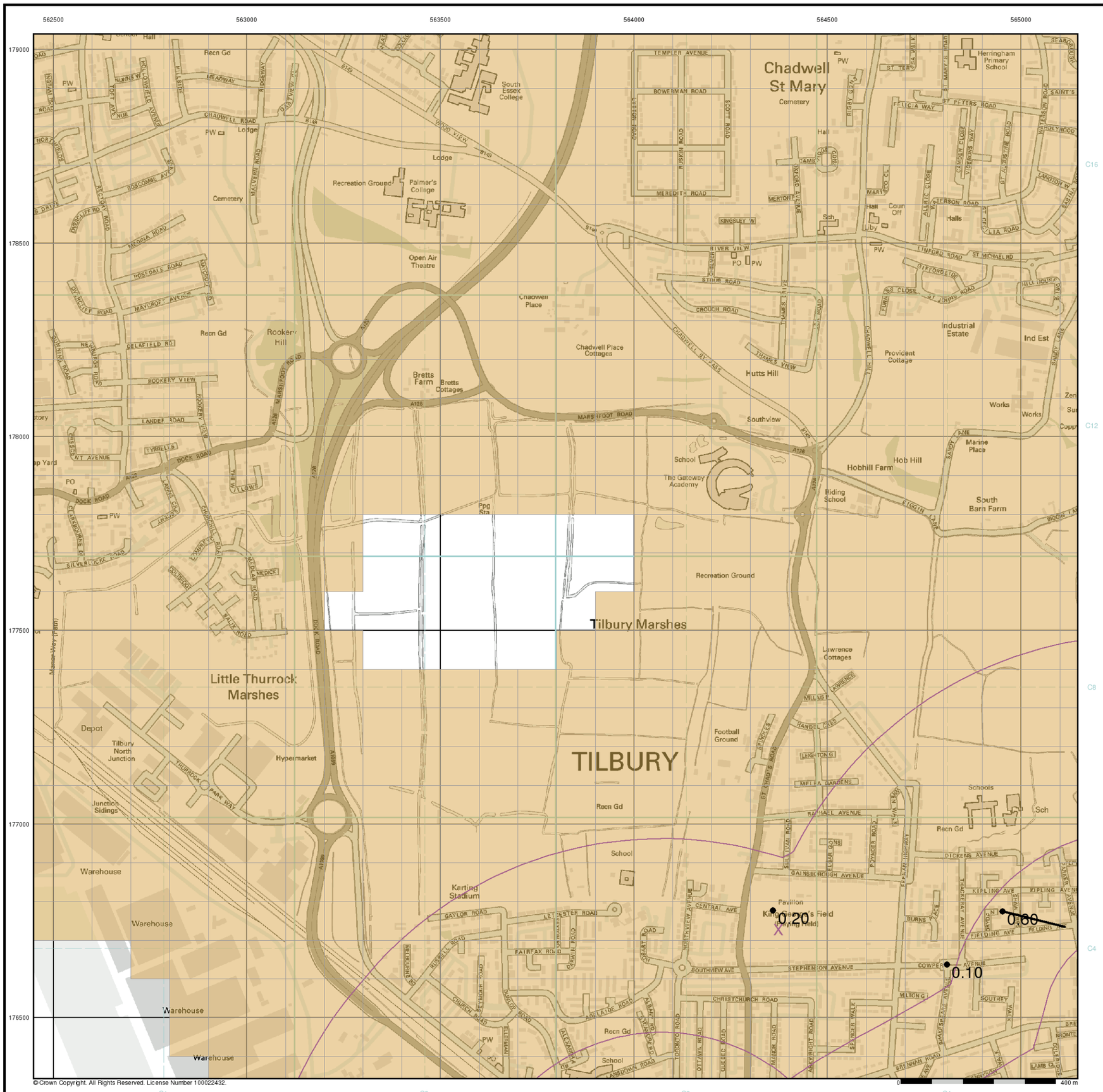

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General

Specified Site | Specified Buffer(s) | Bearing Reference Point

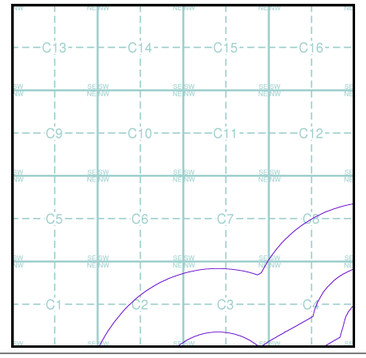
Urban Soil Chemistry Cadmium

BGS Urban Soil Chemistry Measured Concentration Values (mg/kg)

Cadmium Concentrations mg/kg

	< 1.8
	1.8 - 2.2
	2.2 - 3.0
	> 3.0

Urban Soil Chemistry Cadmium - Slice C



Order Details

Order Details:	107251247_1_1
Customer Ref:	5153187- 211 Tilbury Power Station
National Grid Reference:	564370, 176730
Slice:	C
Site Area (Ha):	81.8
Search buffer (m):	1000

Site Details

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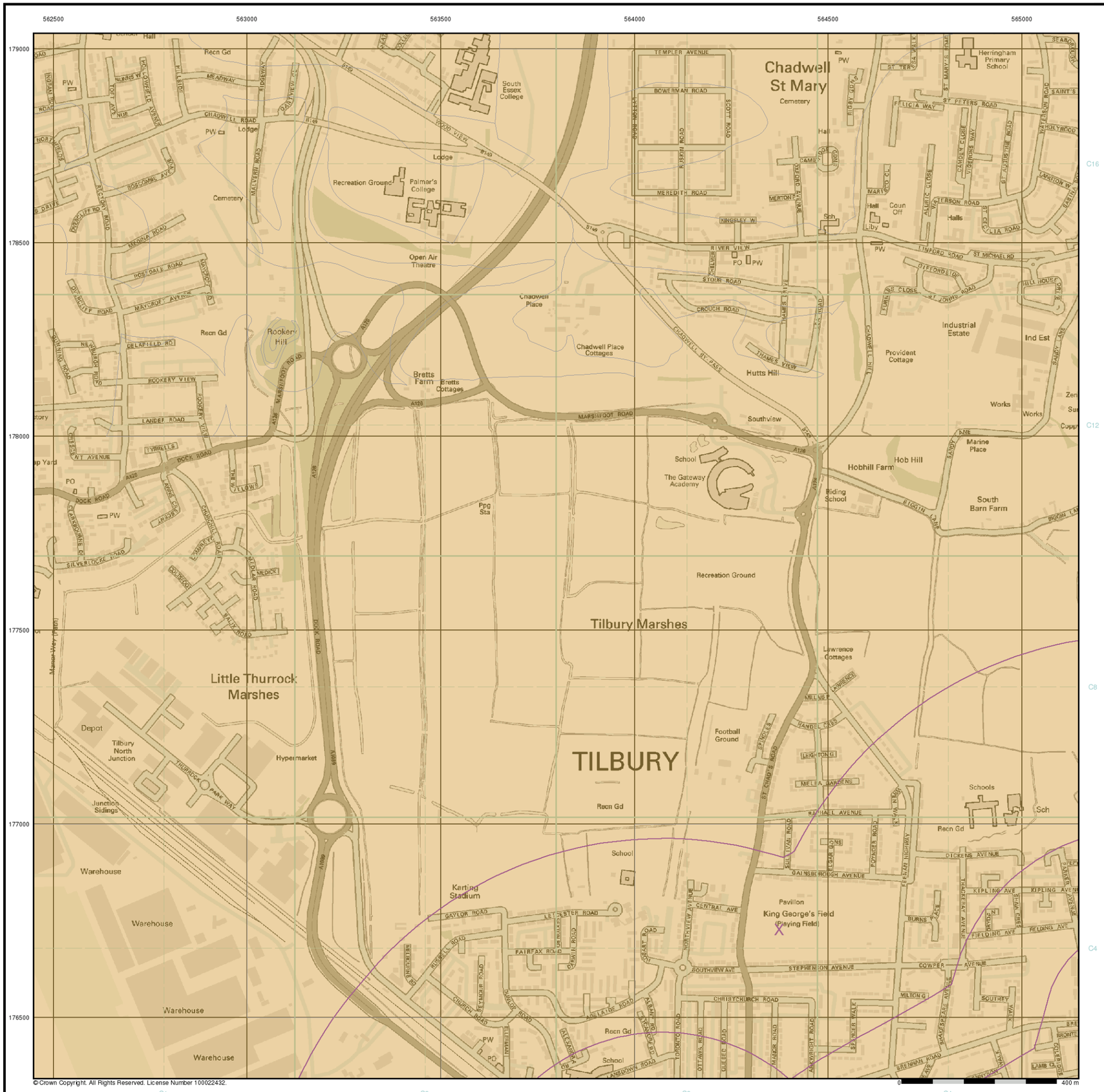

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General

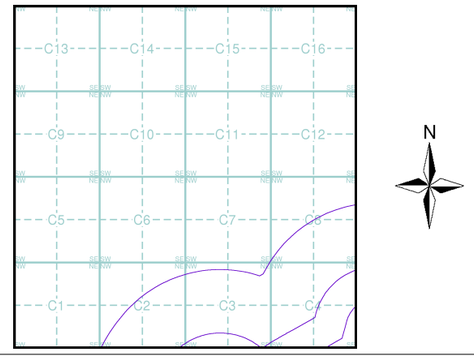
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Cadmium

Cadmium Concentrations mg/kg

- < 1.8
- 1.8 - 2.2
- 2.2 - 3.0
- > 3.0

Estimated Soil Chemistry Cadmium - Slice C



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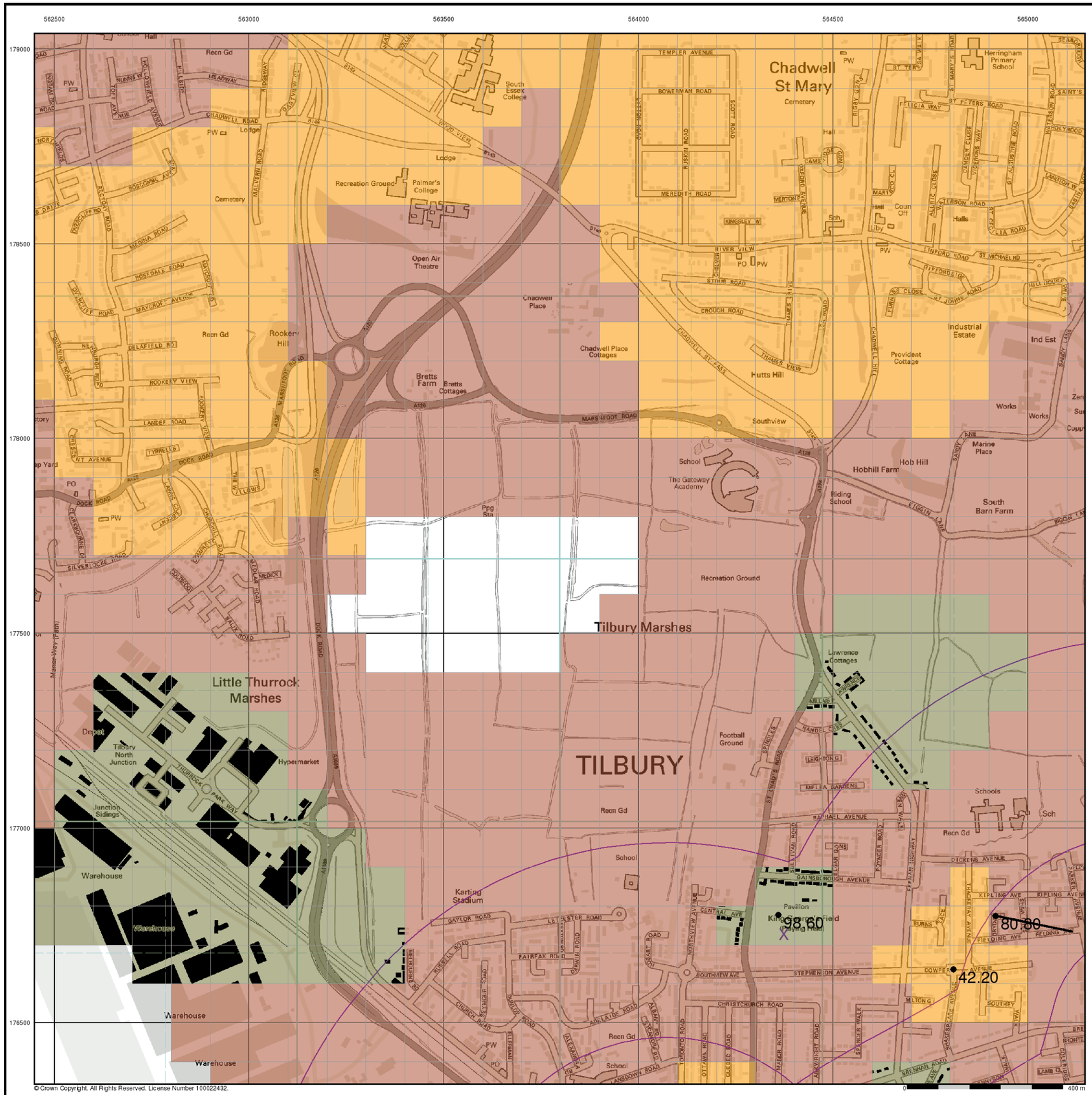

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General

Specified Site | Specified Buffer(s) | X Bearing Reference Point

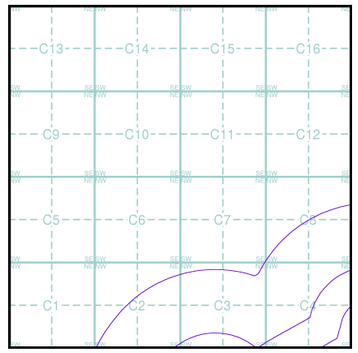
Urban Soil Chemistry Chromium

● BGS Urban Soil Chemistry Measured Concentration Values (mg/kg)

Chromium Concentrations mg/kg

< 20
20 - 40
40 - 60
60 - 90
90 - 120
120 - 180
> 180

Urban Soil Chemistry Chromium - Slice C



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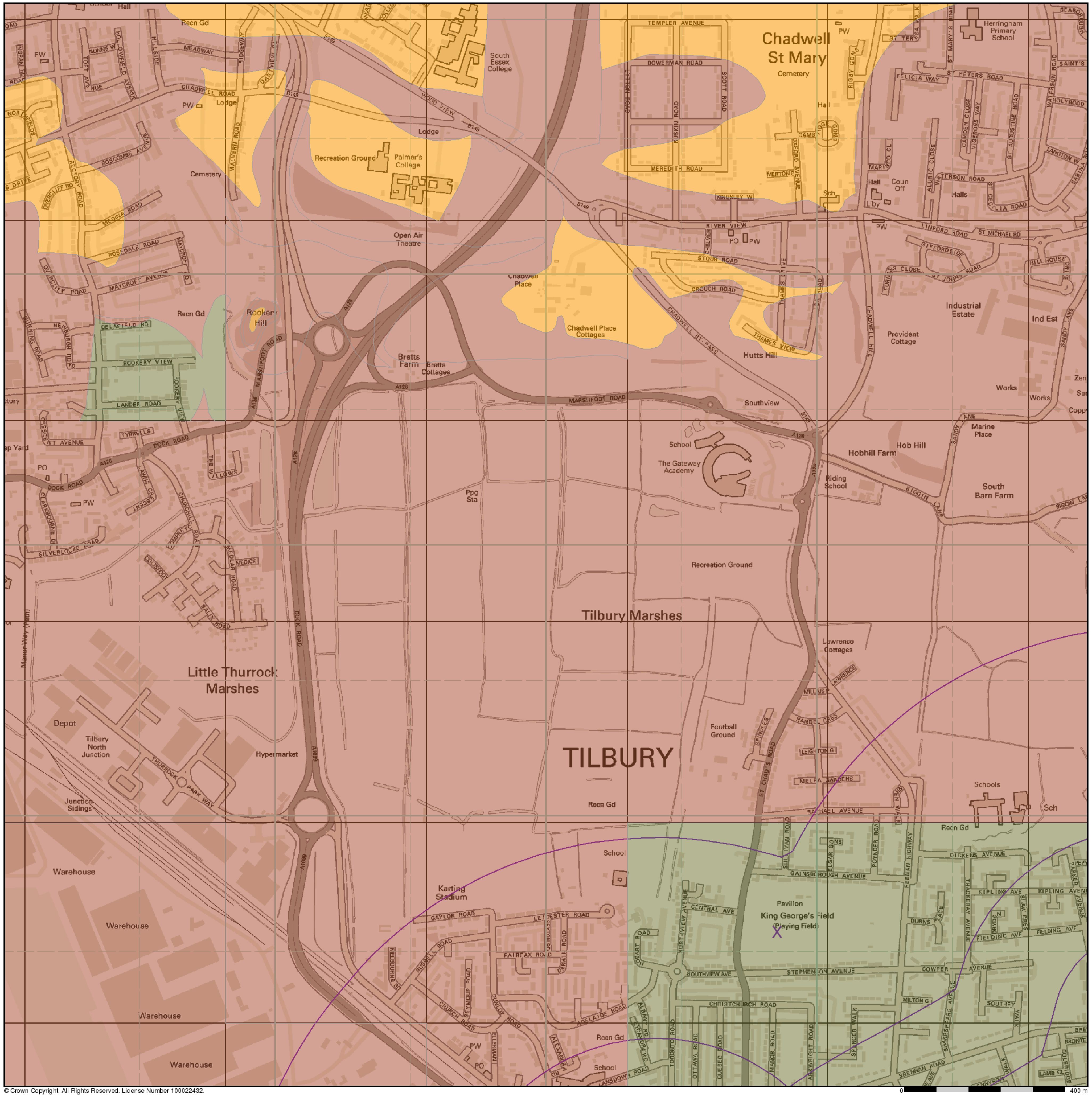

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General

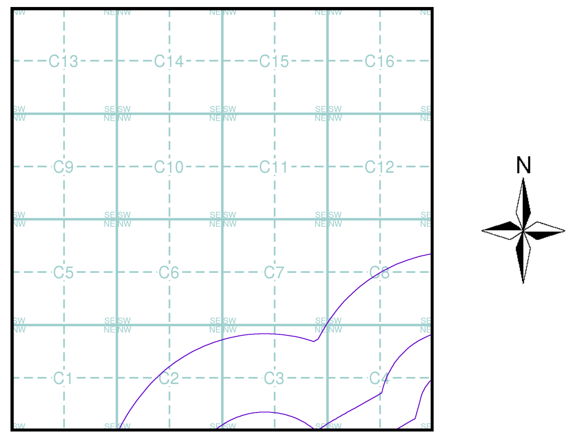
Specified Site   Specified Buffer(s)   X Bearing Reference Point

Estimated Soil Chemistry Chromium

Chromium Concentrations mg/kg

- < 20
- 20 - 40
- 40 - 60
- 60 - 90
- 90 - 120
- 120 - 180
- > 180

Estimated Soil Chemistry Chromium - Slice C



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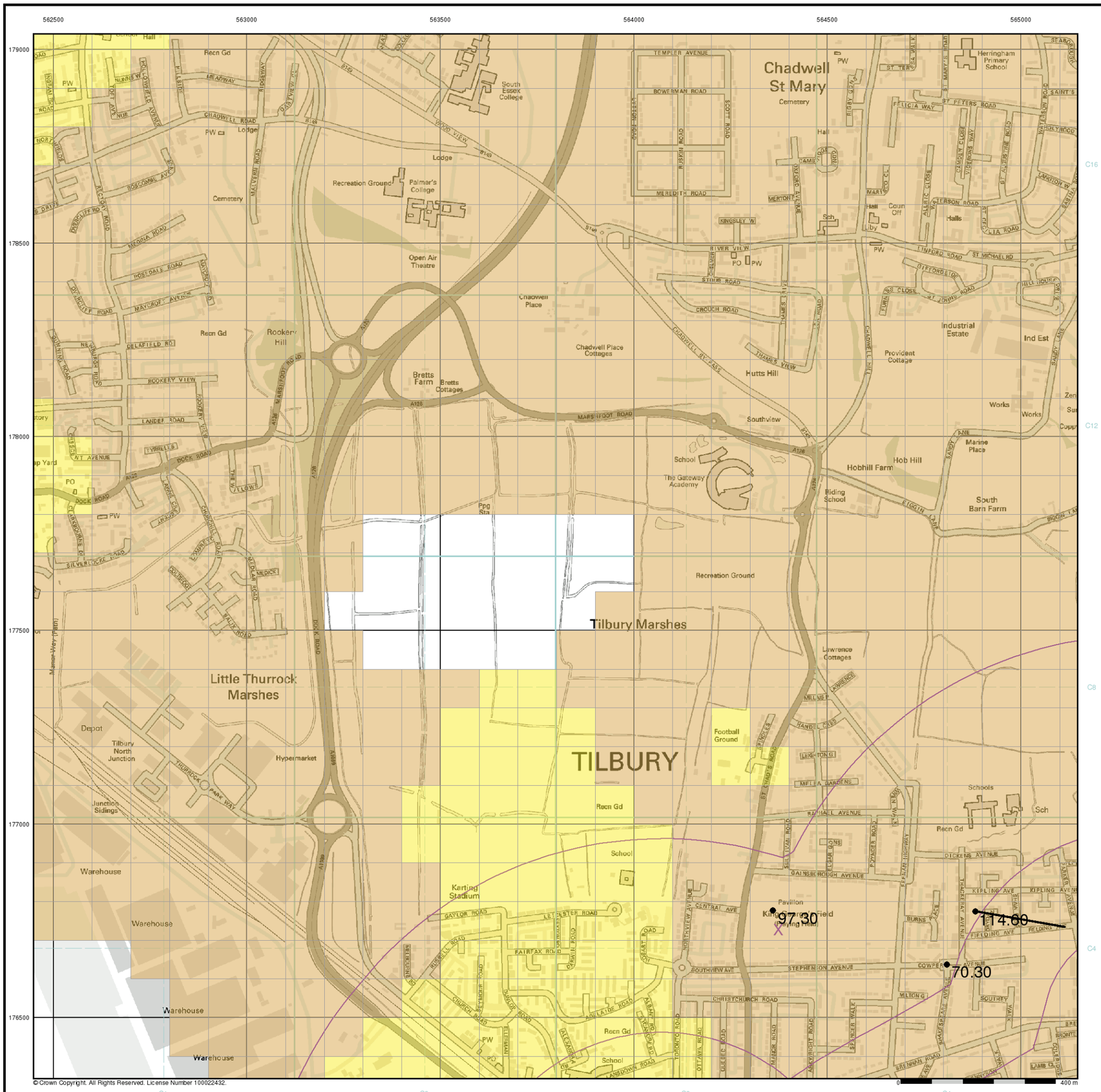

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General

Specified Site | Specified Buffer(s) | X Bearing Reference Point

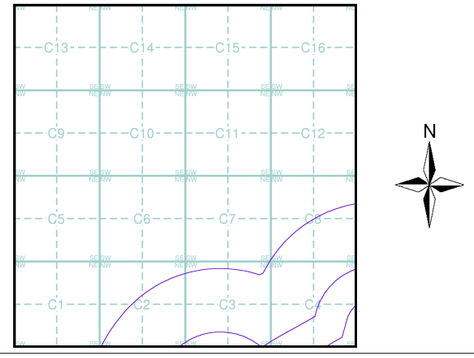
Urban Soil Chemistry Lead

● BGS Urban Soil Chemistry Measured Concentration Values (mg/kg)

Lead Concentrations mg/kg

- < 150
- 150 - 300
- 300 - 600
- 600 - 900
- > 900

Urban Soil Chemistry Lead - Slice C



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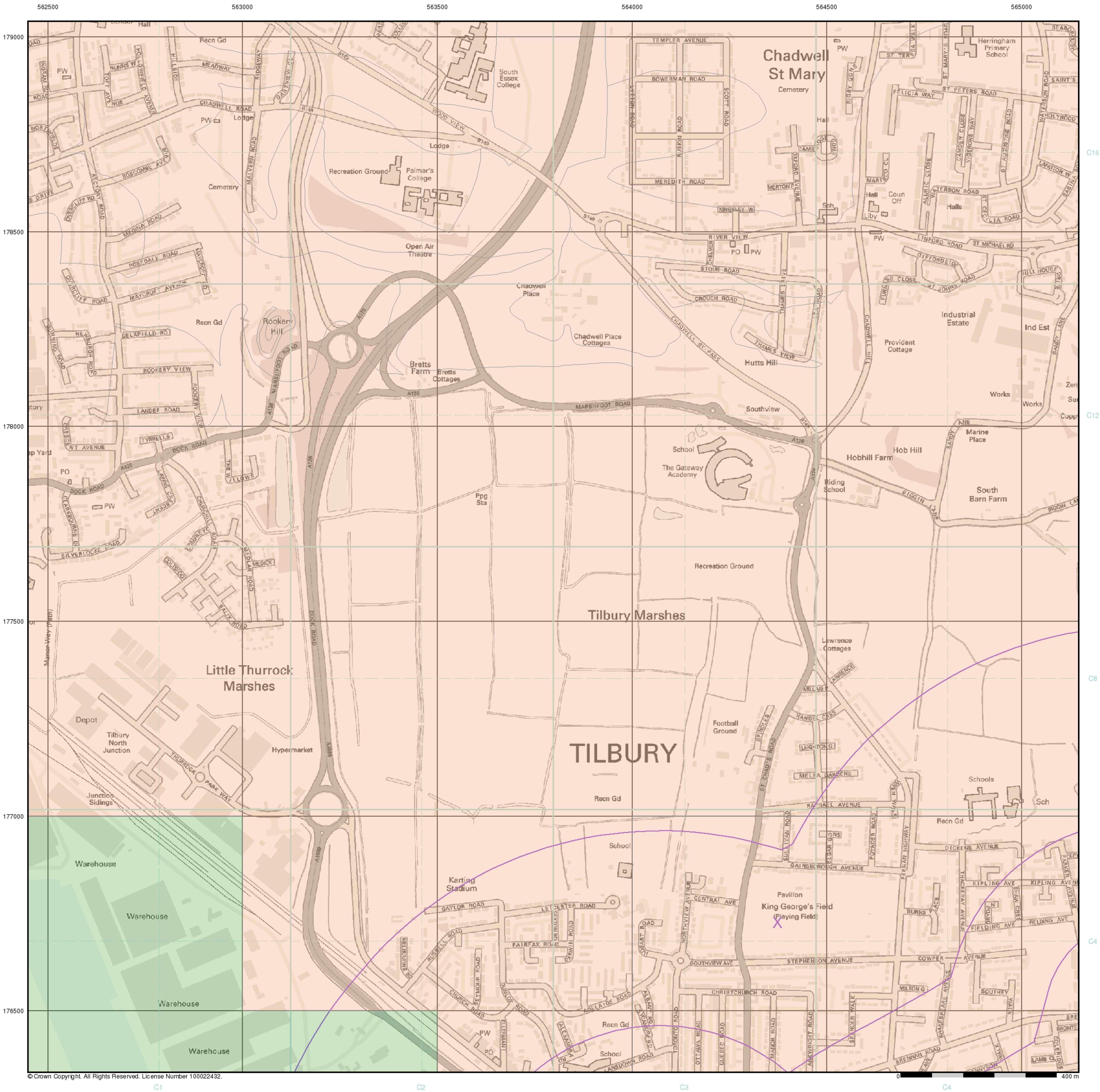

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General

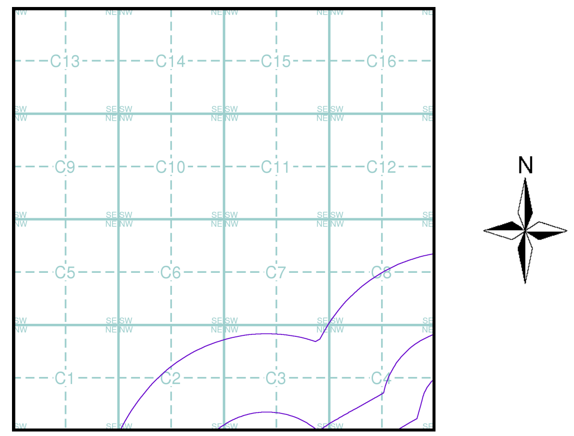
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Lead

Lead Concentrations mg/kg

- <100 mg/kg
- 100 - 200
- 200 - 300
- 300 - 600
- 600 - 1200
- >1200

Estimated Soil Chemistry Lead - Slice C



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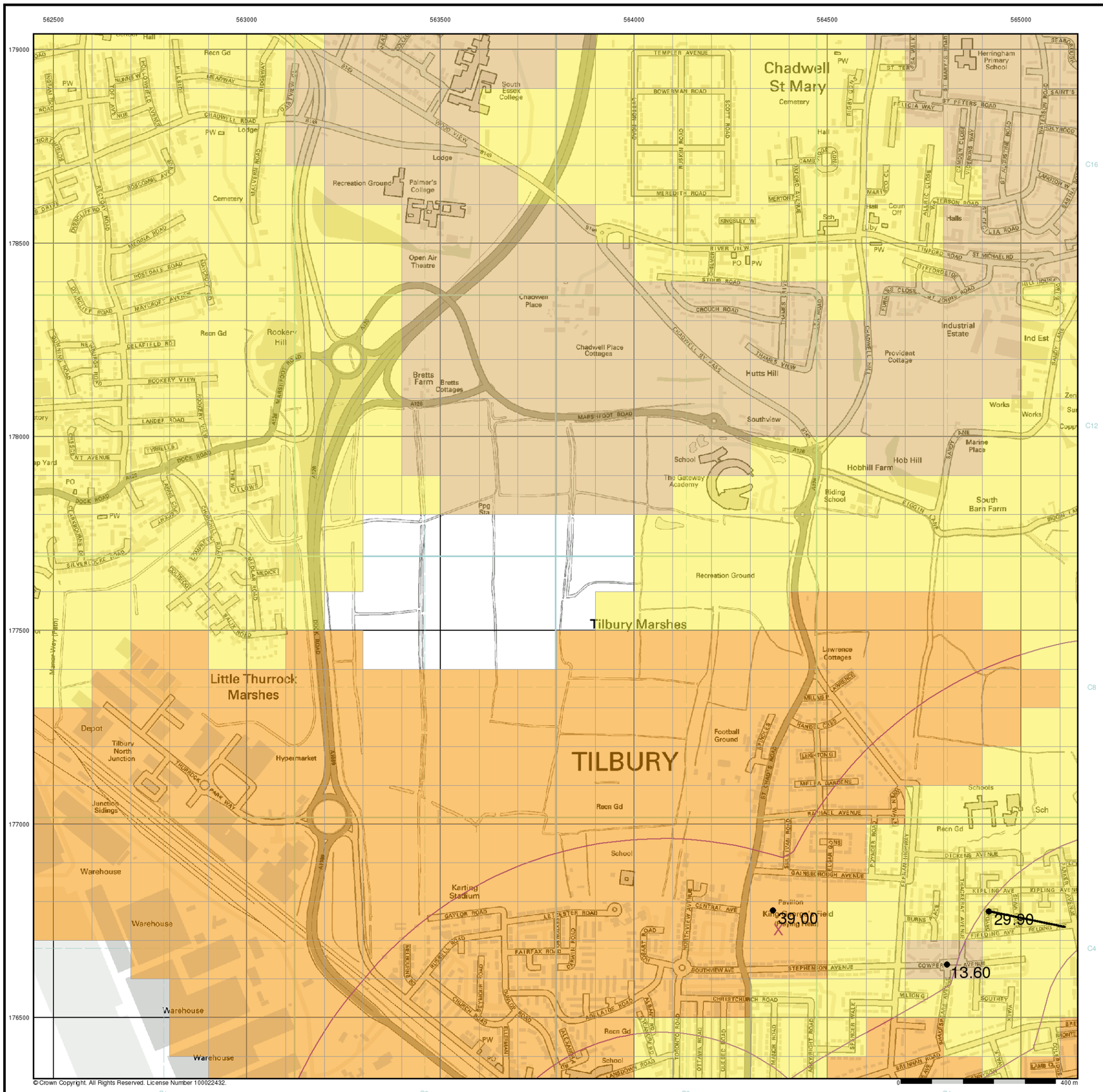

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General

Specified Site | Specified Buffer(s) | X Bearing Reference Point

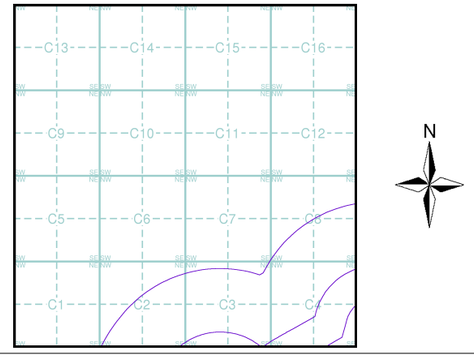
Urban Soil Chemistry Nickel

● BGS Urban Soil Chemistry Measured Concentration Values (mg/kg)

Nickel Concentrations mg/kg

- < 15
- 15 - 30
- 30 - 45
- 45 - 60
- 60 - 80
- 80 - 100
- > 100

Urban Soil Chemistry Nickel - Slice C



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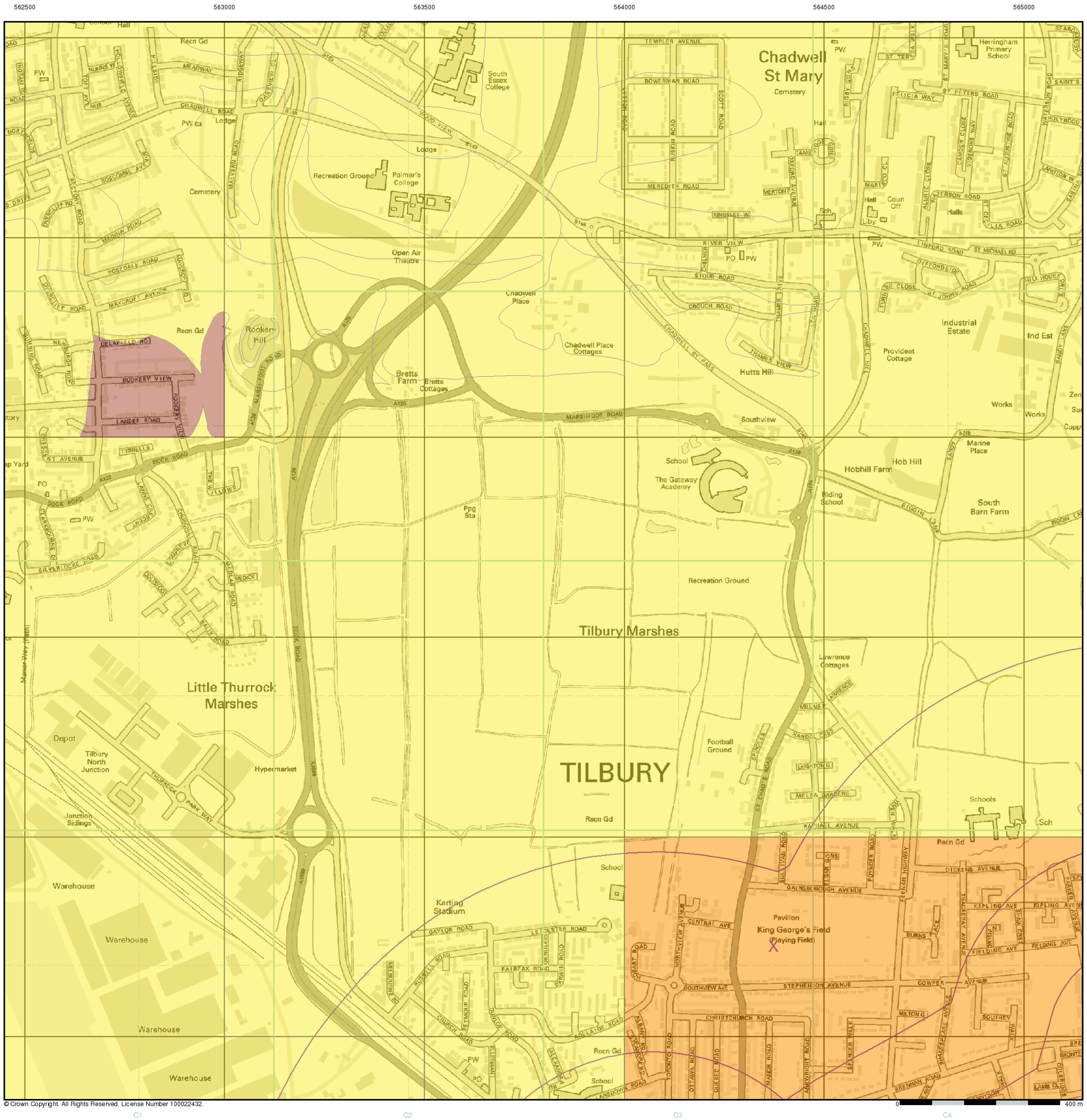


General

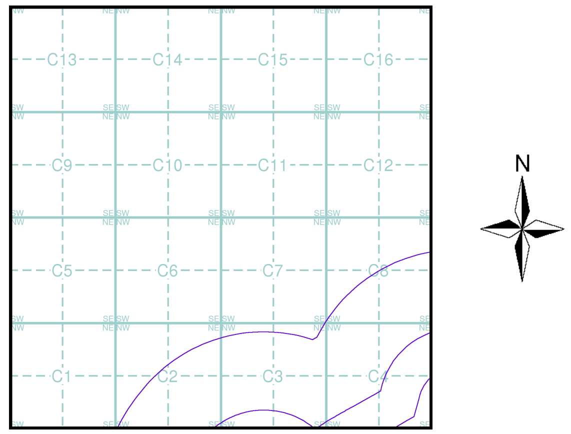
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Nickel

Nickel Concentrations mg/kg

- < 15
- 15 - 30
- 30 - 45
- 45 - 60
- 60 - 80
- 80 - 100
- > 100

Estimated Soil Chemistry Nickel - Slice C



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Geology 1:10,000 Maps Legends

Artificial Ground and Landslip

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	MGR	Made Ground (Undivided)	Unknown/Unclassified Entry	Holocene - Holocene
	WGR	Worked Ground (Undivided)	Unknown/Unclassified Entry	Holocene - Holocene
	WMGR	Infilled Ground	Unknown/Unclassified Entry	Holocene - Holocene

Superficial Geology

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	ALV	Alluvium	Silt	Flandrian - Pleistocene
	TPGR	Taplow Gravel Formation	Sand and Gravel	Wolstonian - Chokierian
	LHGR	Lynch Hill Gravel Member	Sand and Gravel	Wolstonian - Chokierian
	BHT	Boyn Hill Gravel Member	Sand and Gravel	Wolstonian - Wolstonian
	HEAD	Head	Clay	Quaternary - Ryazanian

Bedrock and Faults

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	TAB	Thanet Formation	Sand	Thanetian - Thanetian
	LMBE	Lambeth Group	Clay, Sandy	Paleocene - Paleocene
	CK	Chalk Group	Chalk	Maastrichtian - Cenomanian

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Geology 1:10,000 Maps

This report contains geological map extracts taken from the BGS Digital Geological map of Great Britain at 1:10,000 scale and is designed for users carrying out preliminary site assessments who require geological maps for the area around a site. This mapping may be more up to date than previously published paper maps.

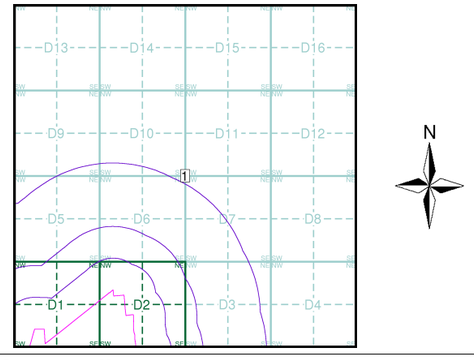
The various geological layers - artificial and landslip deposits, superficial geology and solid (bedrock) geology are displayed in separate maps, but superimposed on the final 'Combined Surface Geology' map. All map legends feature on this page.

Please Note: Not all of the layers have complete nationwide coverage, so availability of data for relevant map sheets is indicated below.

Geology 1:10,000 Maps Coverage

Map ID: 1
Map Name: TQ67NE
Map Date: 1994
Bedrock Geology: Available
Superficial Geology: Available
Artificial Geology: Available
Faults: Not Available
Landslip: Not Available
Rock Segments: Not Available

Geology 1:10,000 Maps - Slice D



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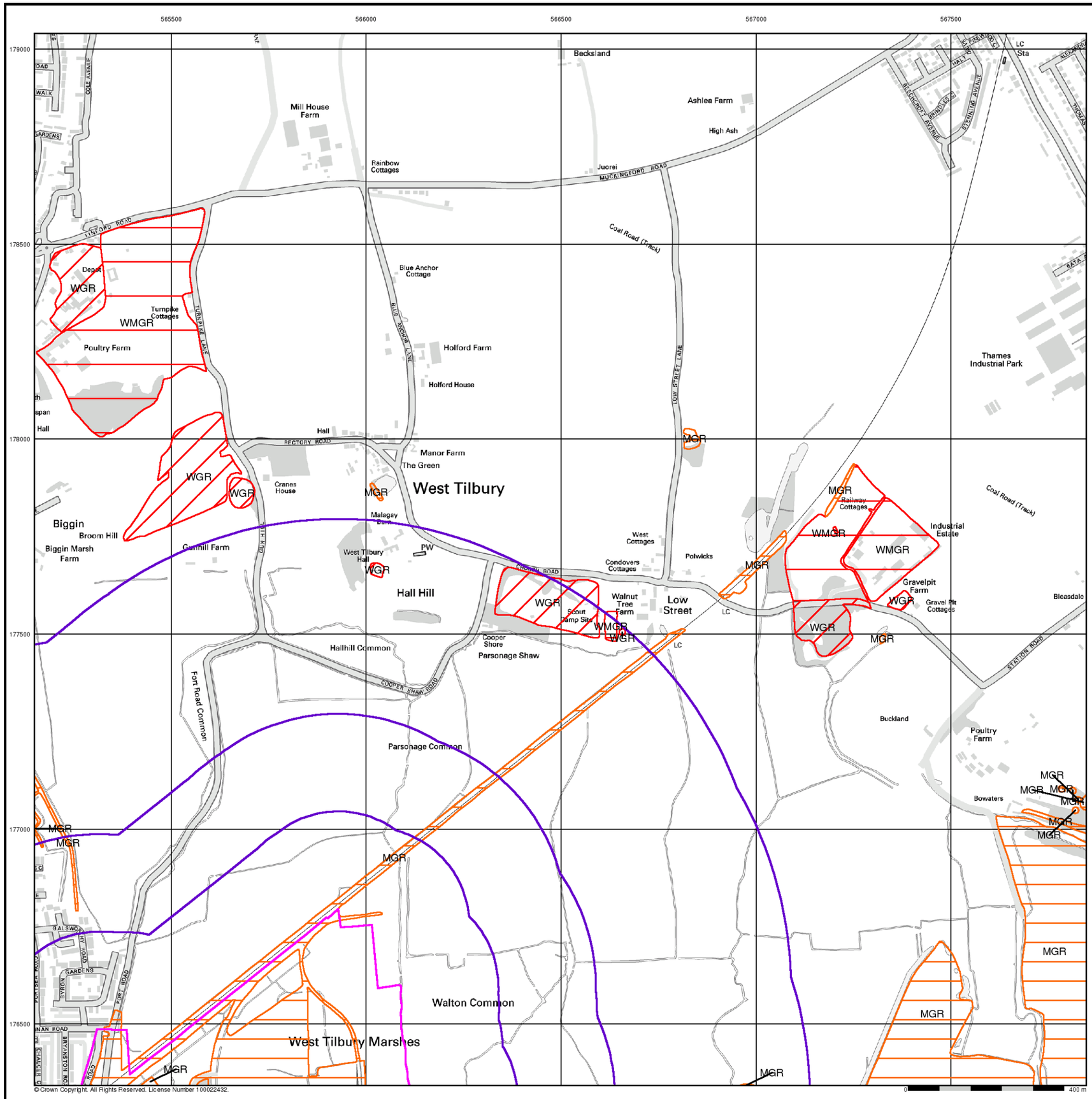

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Artificial Ground and Landslip

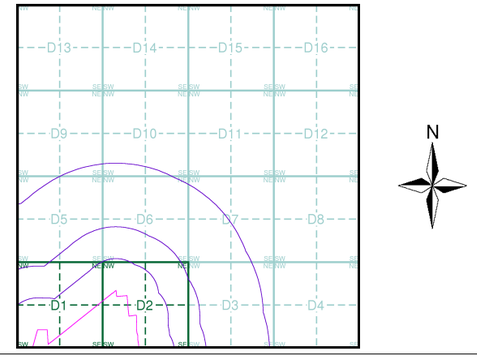
Artificial ground is a term used by BGS for those areas where the ground surface has been significantly modified by human activity. Information about previously developed ground is especially important, as it is often associated with potentially contaminated material, unpredictable engineering conditions and unstable ground.

Artificial ground includes:

- Made ground - man-made deposits such as embankments and spoil heaps on the natural ground surface.
- Worked ground - areas where the ground has been cut away such as quarries and road cuttings.
- Infilled ground - areas where the ground has been cut away then wholly or partially backfilled.
- Landscaped ground - areas where the surface has been reshaped.
- Disturbed ground - areas of ill-defined shallow or near surface mineral workings where it is impracticable to map made and worked ground separately.

Mass movement (landslip) deposits on BGS geological maps are primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground. The dataset also includes foundered strata, where the ground has collapsed due to subsidence.

Artificial Ground and Landslip Map - Slice D



Order Details

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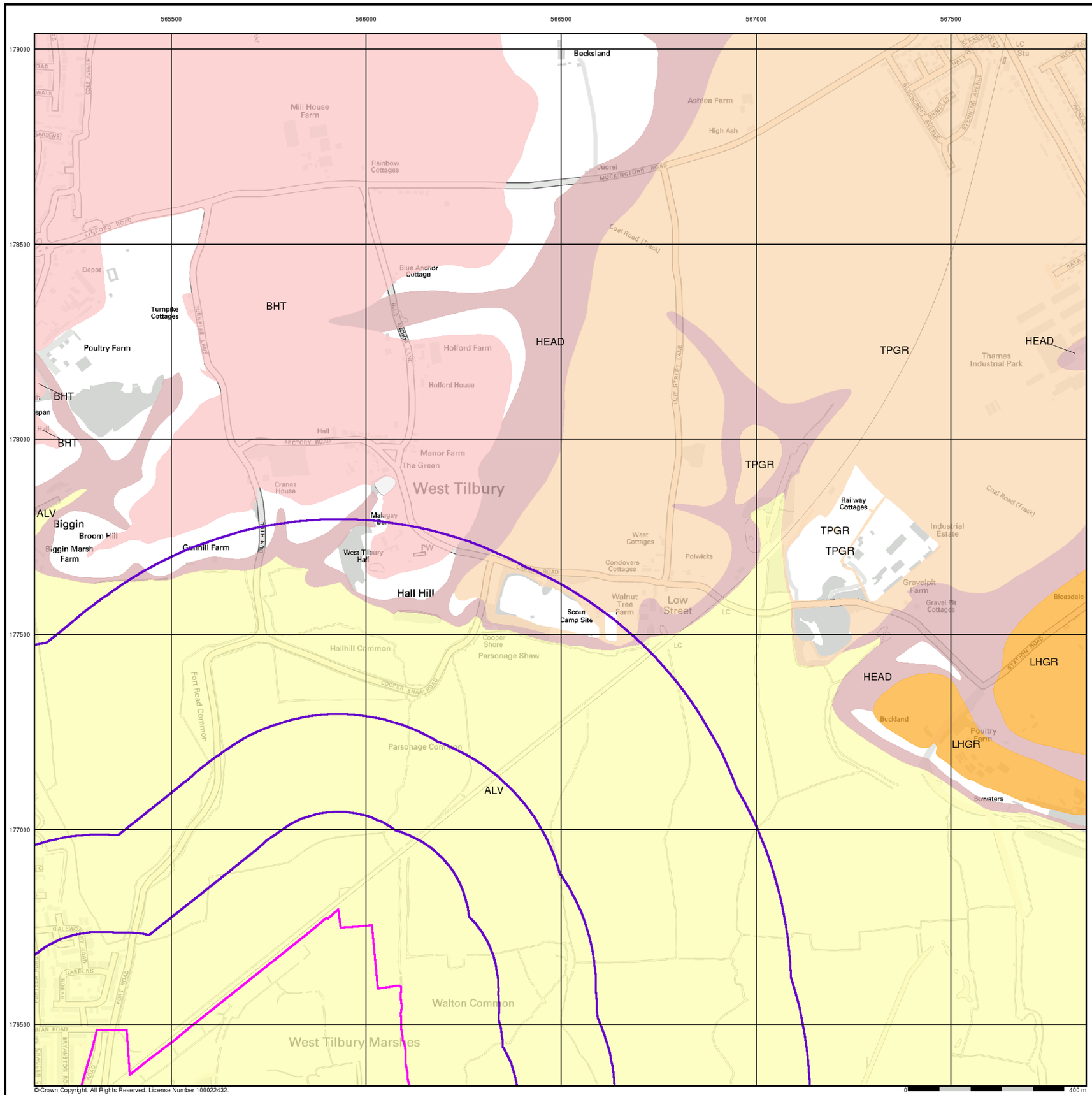

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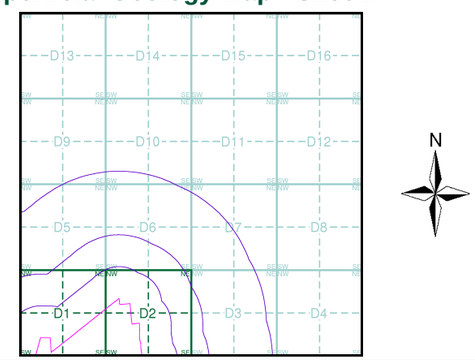
Superficial Geology

BGS 1:10,000 Superficial Deposits are the youngest geological deposits formed during the most recent period of geological time, which extends back about 1.8 million years from the present.

They rest on older deposits or rocks referred to as Bedrock. This dataset contains Superficial deposits that are of natural origin and 'in place'. Other superficial strata may be held in the Mass Movement dataset where they have been moved, or in the Artificial Ground dataset where they are of man-made origin.

Most of these Superficial deposits are unconsolidated sediments such as gravel, sand, silt and clay, and onshore they form relatively thin, often discontinuous patches or larger spreads.

Superficial Geology Map - Slice D



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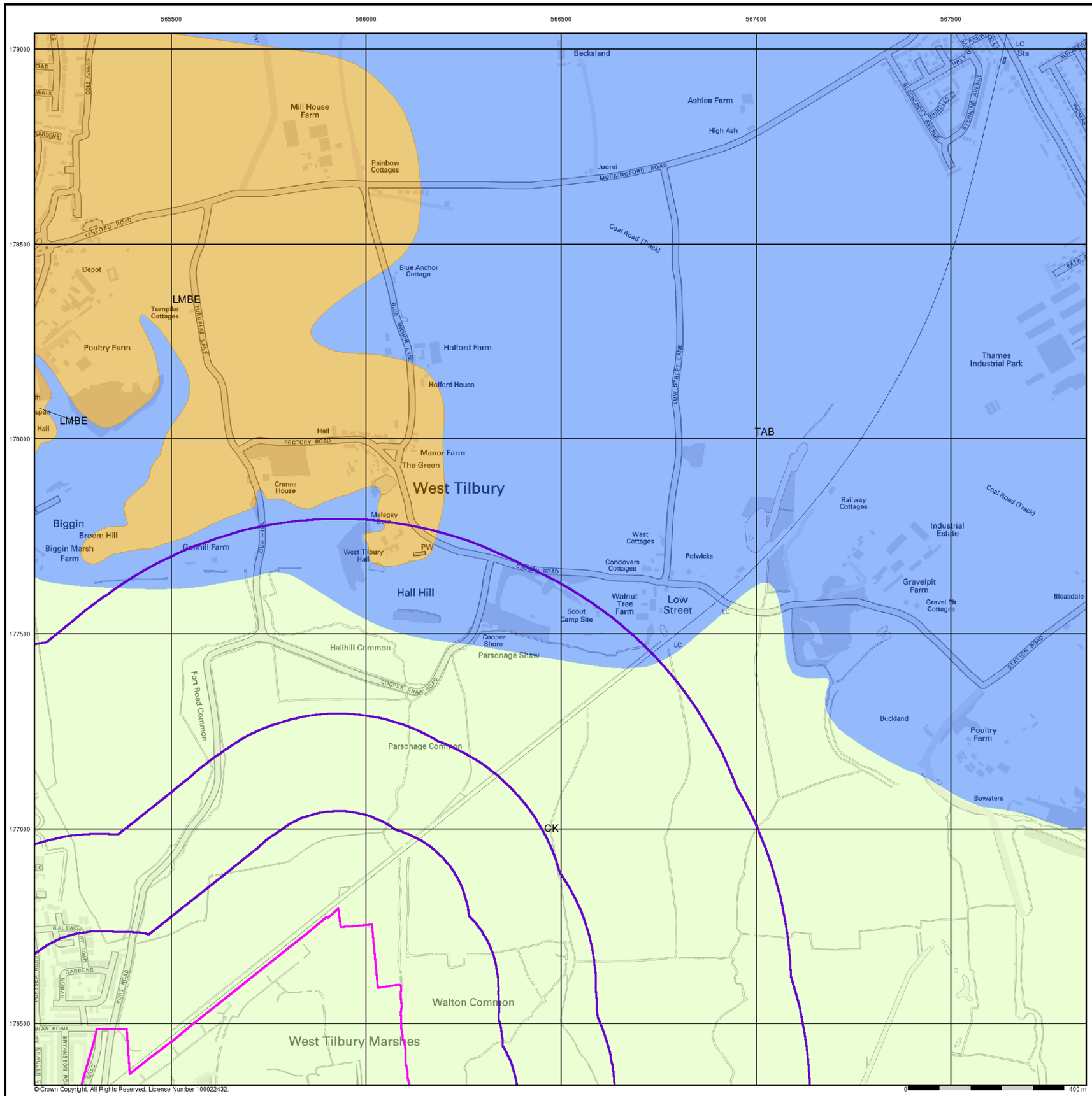

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Bedrock and Faults

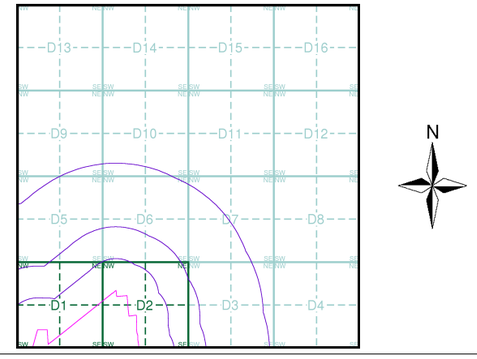
Bedrock geology is a term used for the main mass of rocks forming the Earth and are present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

The bedrock has formed over vast lengths of geological time ranging from ancient and highly altered rocks of the Proterozoic, some 2500 million years ago, or older, up to the relatively young Pliocene, 1.8 million years ago.

The bedrock geology includes many lithologies, often classified into three types based on origin: igneous, metamorphic and sedimentary.

The BGS Faults and Rock Segments dataset includes geological faults and thin beds mapped as lines such as coal seams and mineral veins. These are not restricted by age and could relate to features of any of the 1:10,000 geology datasets.

Bedrock and Faults Map - Slice D



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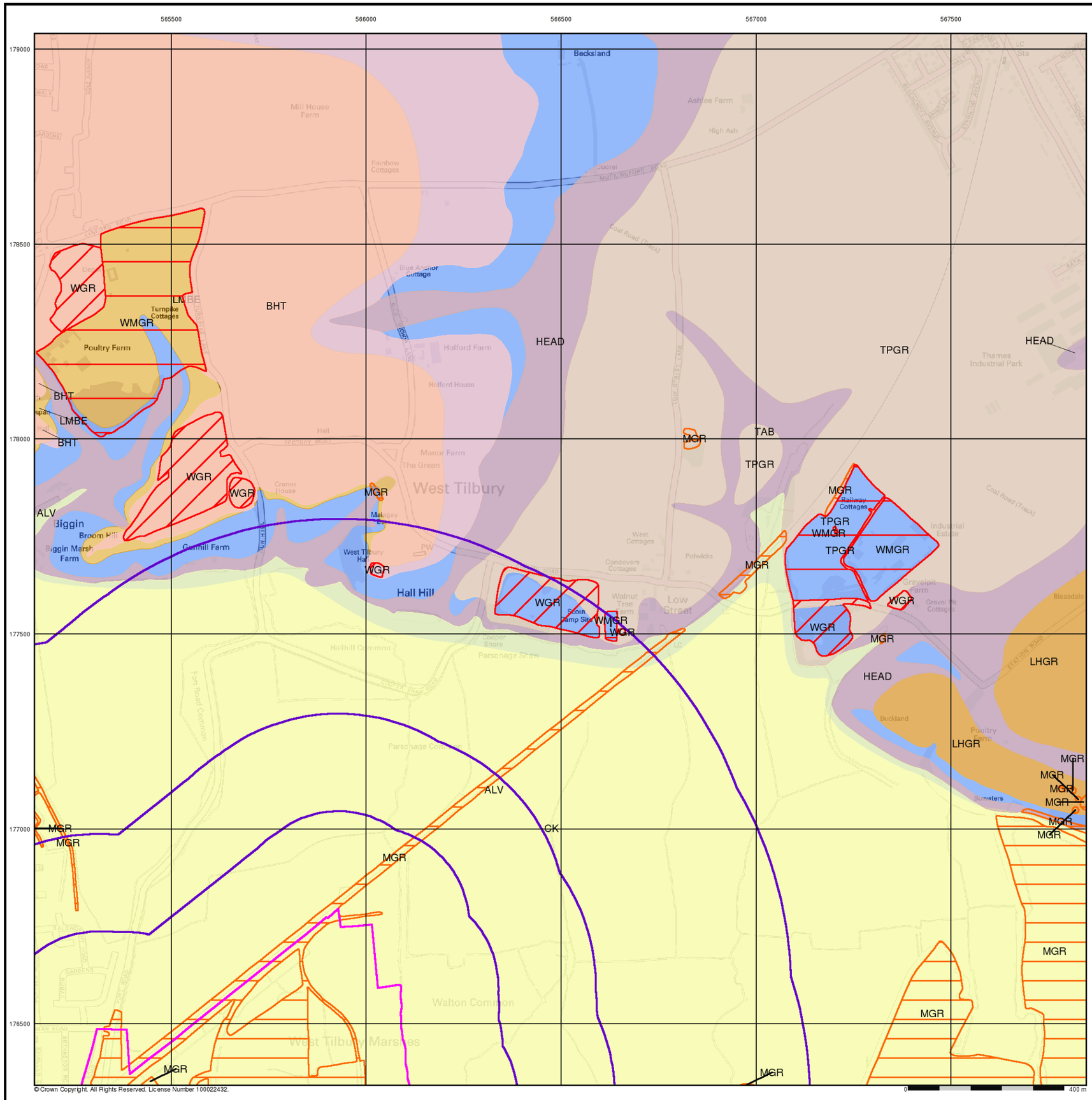

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Combined Surface Geology

The Combined Surface Geology map combines all the previous maps into one combined geological overview of your site.

Please consult the legends to the previous maps to interpret the Combined "Surface Geology" map.

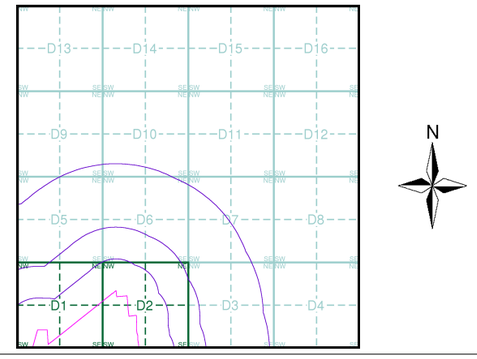
Additional Information

More information on 1:10,000 Geological mapping and explanations of rock classifications can be found on the BGS website. Using the LEX Codes in this report, further descriptions of rock types can be obtained by interrogating the 'BGS Lexicon of Named Rock Units'. This database can be accessed by following the 'Information and Data' link on the BGS website.

Contact

British Geological Survey
Kingsley Dunham Centre
Keyworth
Nottingham
NG12 5GG
Telephone: 0115 936 3143
Fax: 0115 936 3276
email: enquiries@bgs.ac.uk
website: www.bgs.ac.uk

Combined Geology Map - Slice D



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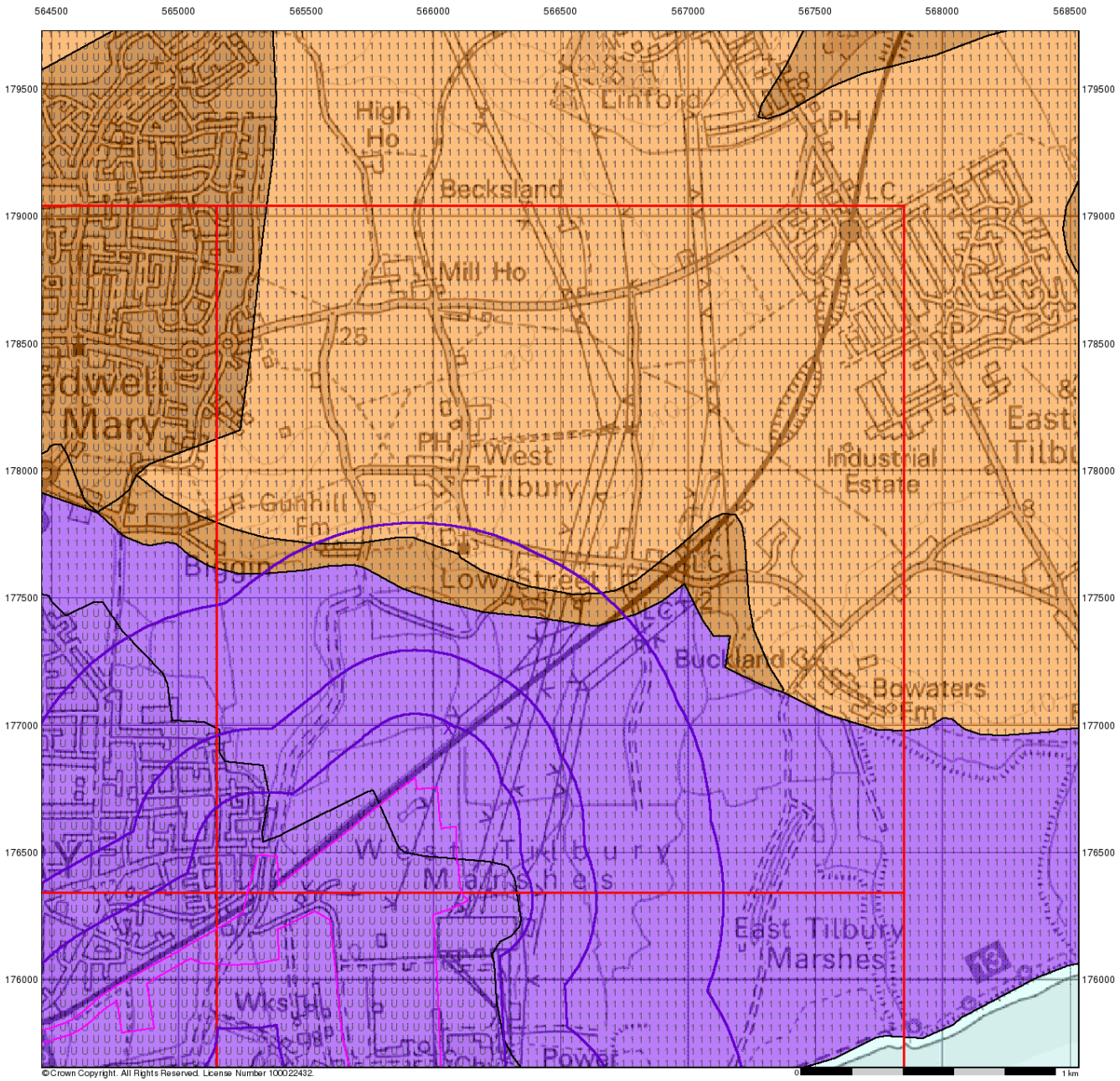

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Groundwater Vulnerability

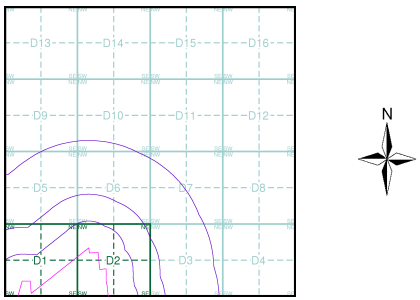
General

Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

Agency and Hydrological

Geological Classes	Soil Classes
Major Aquifer (Highly Permeable)	High (H) 1, 2, 3, U
	Intermediate (I) 1, 2
	Low
Minor Aquifer (Variably Permeable)	High (H) 1, 2, 3, U
	Intermediate (I) 1, 2
	Low
Non Aquifer (Negligibly Permeable)	
Water or Sea	
Drift Deposit	

Site Sensitivity Context Map - Slice D



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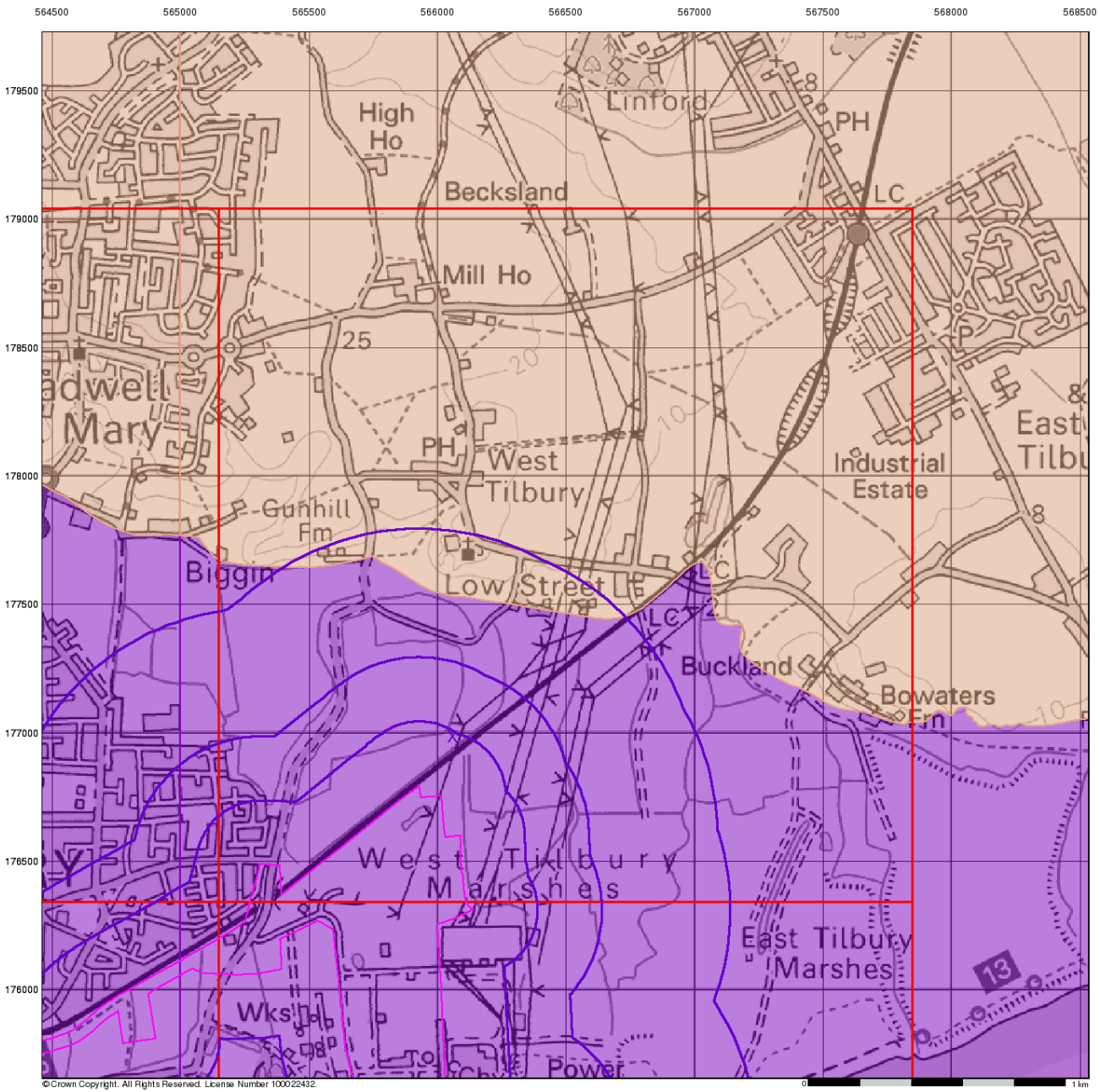

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Bedrock Aquifer Designation

General

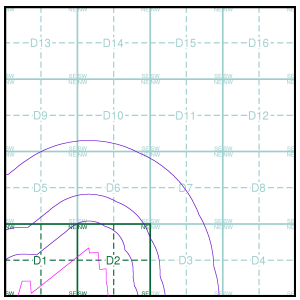
Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

Agency and Hydrological

Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown
- Unknown (Lakes and Landslip)

Site Sensitivity Context Map - Slice D



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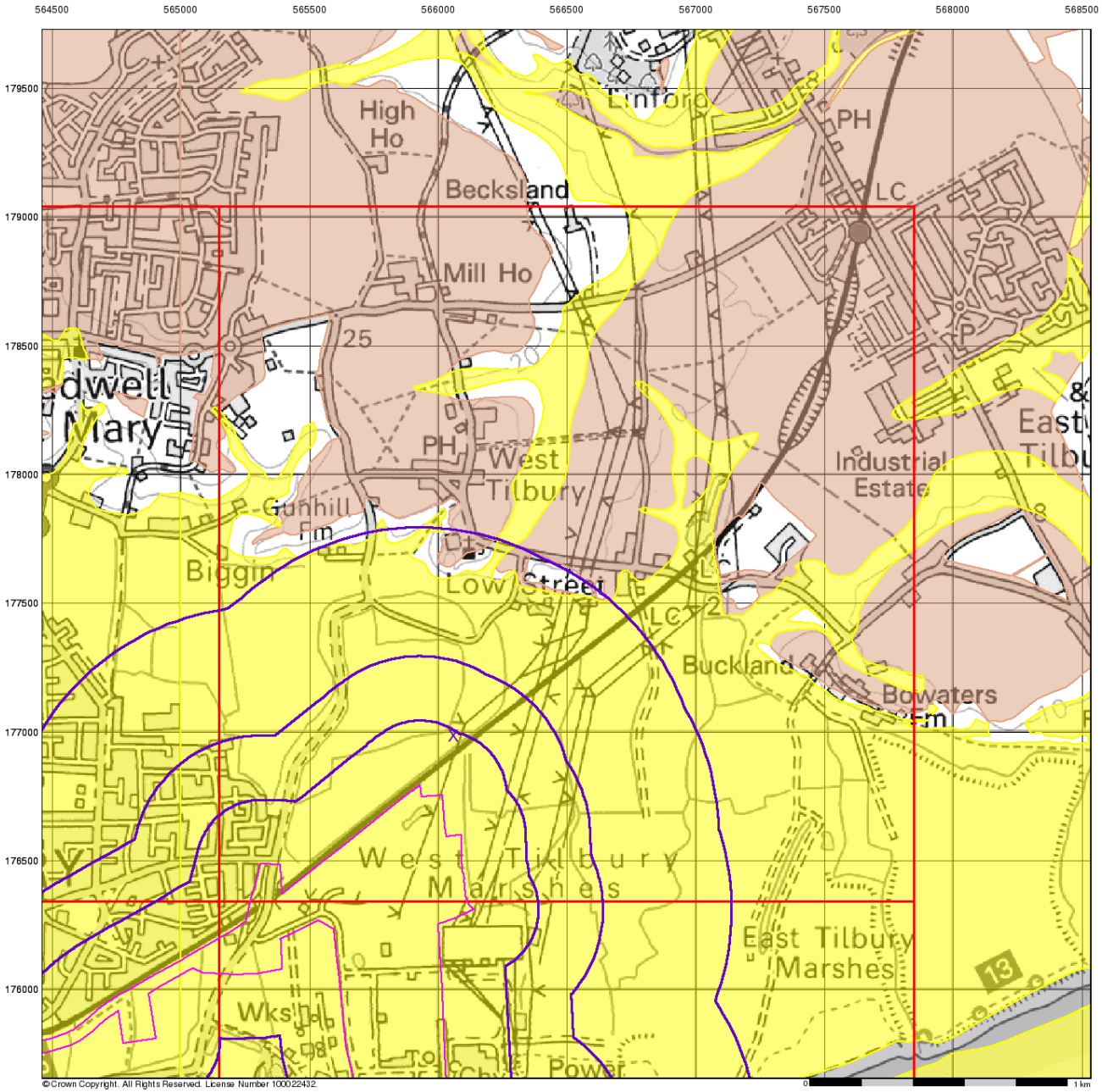

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Superficial Aquifer Designation

General

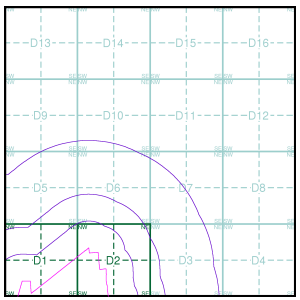
Specified Site | Specified Buffer(s) | Bearing Reference Point
Slice | Map ID

Agency and Hydrological

Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown
- Unknown (Lakes and Landslip)

Site Sensitivity Context Map - Slice D



Order Details

Order Number:	107251247_1_1
Customer Ref:	5153187- 211 Tilbury Power Station
National Grid Reference:	566060, 176990
Slice:	D
Site Area (Ha):	81.8
Search Buffer (m):	1000

Site Details

Gravesend

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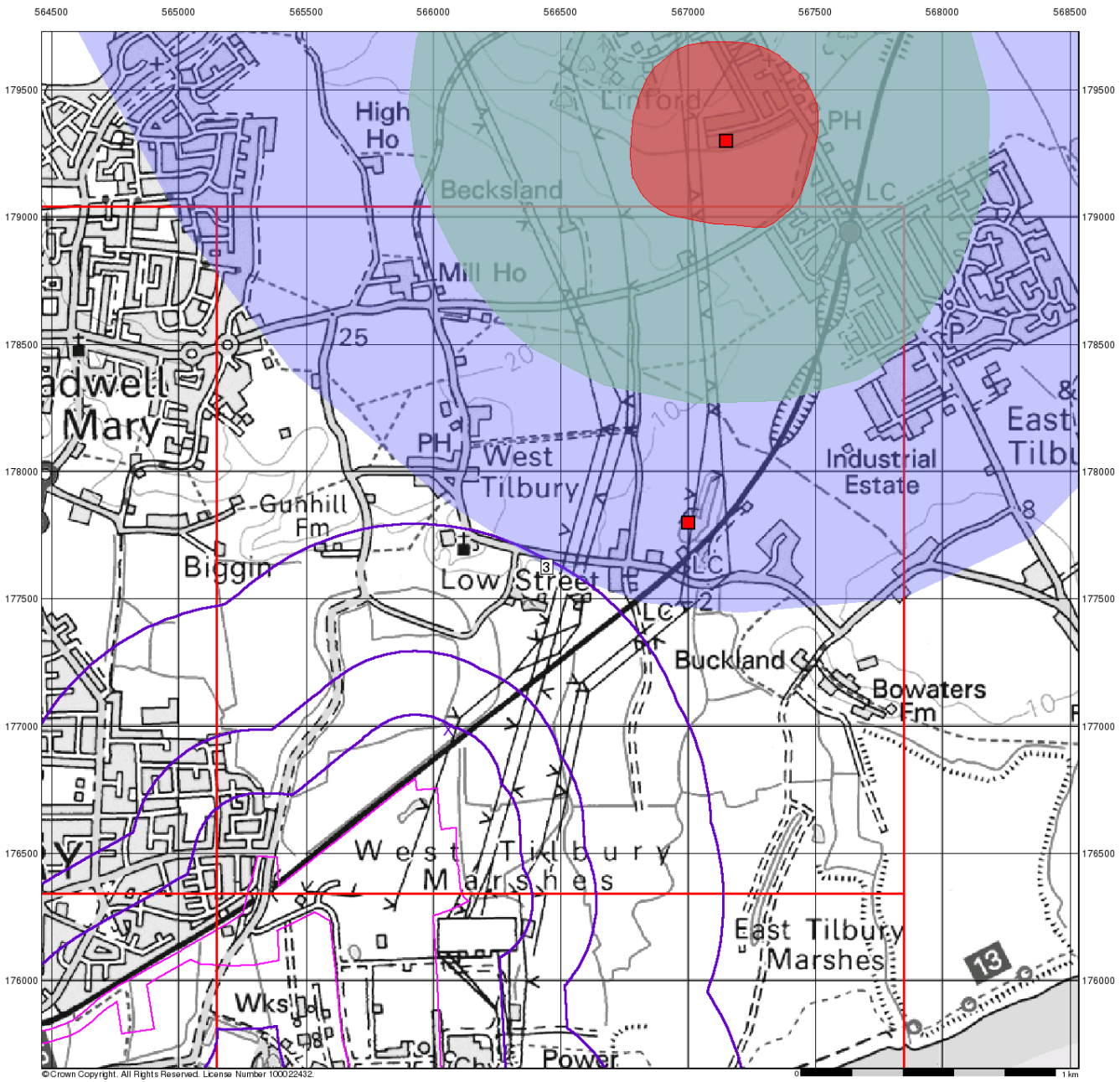

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Source Protection Zones

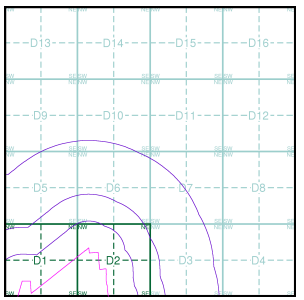
General

Specified Site | Specified Buffer(s) | Bearing Reference Point
Slice | Map ID

Agency and Hydrological

- Inner zone (Zone 1)
- Inner zone - subsurface activity only (Zone 1c)
- Outer zone (Zone 2)
- Outer zone - subsurface activity only (Zone 2c)
- Total catchment (Zone 3)
- Total catchment - subsurface activity only (Zone 3c)
- Special interest (Zone 4)
- Source Protection Zone Borehole

Site Sensitivity Context Map - Slice D



Order Details

Order Number:	107251247_1_1
Customer Ref:	5153187- 211 Tilbury Power Station
National Grid Reference:	566060, 176990
Slice:	D
Site Area (Ha):	81.8
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Site Details

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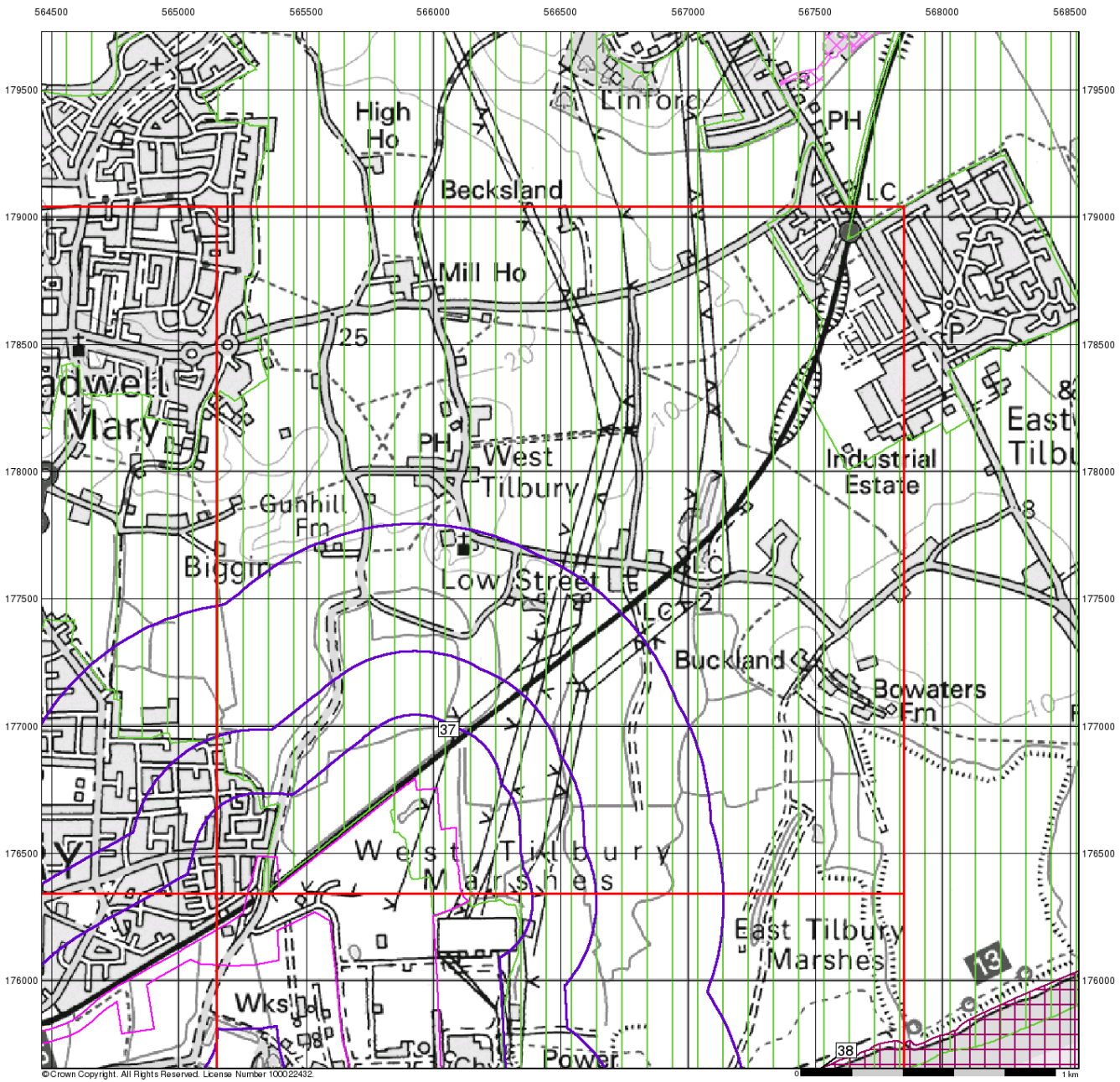

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Sensitive Land Uses

General

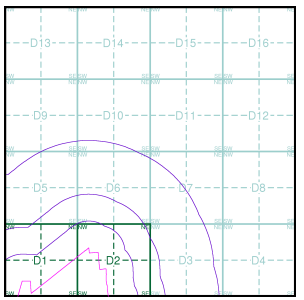
Specified Site | Specified Buffer(s) | Bearing Reference Point

Slice | Map ID

Sensitive Land Uses

- Ancient Woodland
- Area of Adopted Green Belt
- Area of Unadopted Green Belt
- Area of Outstanding Natural Beauty
- Environmentally Sensitive Area
- Forest Park
- Local Nature Reserve
- Marine Nature Reserve
- National Nature Reserve
- National Park
- Nitrate Sensitive Area
- Nitrate Vulnerable Zone
- Ramsar Site
- Site of Special Scientific Interest
- Special Area of Conservation
- Special Protection Area
- World Heritage Sites

Site Sensitivity Context Map - Slice D



Order Details

Order Number:	107251247_1_1
Customer Ref:	5153187- 211 Tilbury Power Station
National Grid Reference:	566060, 176990
Slice:	D
Site Area (Ha):	81.8
Search Buffer (m):	1000

Site Details

Gravesend

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Tel: 0844 844 9952
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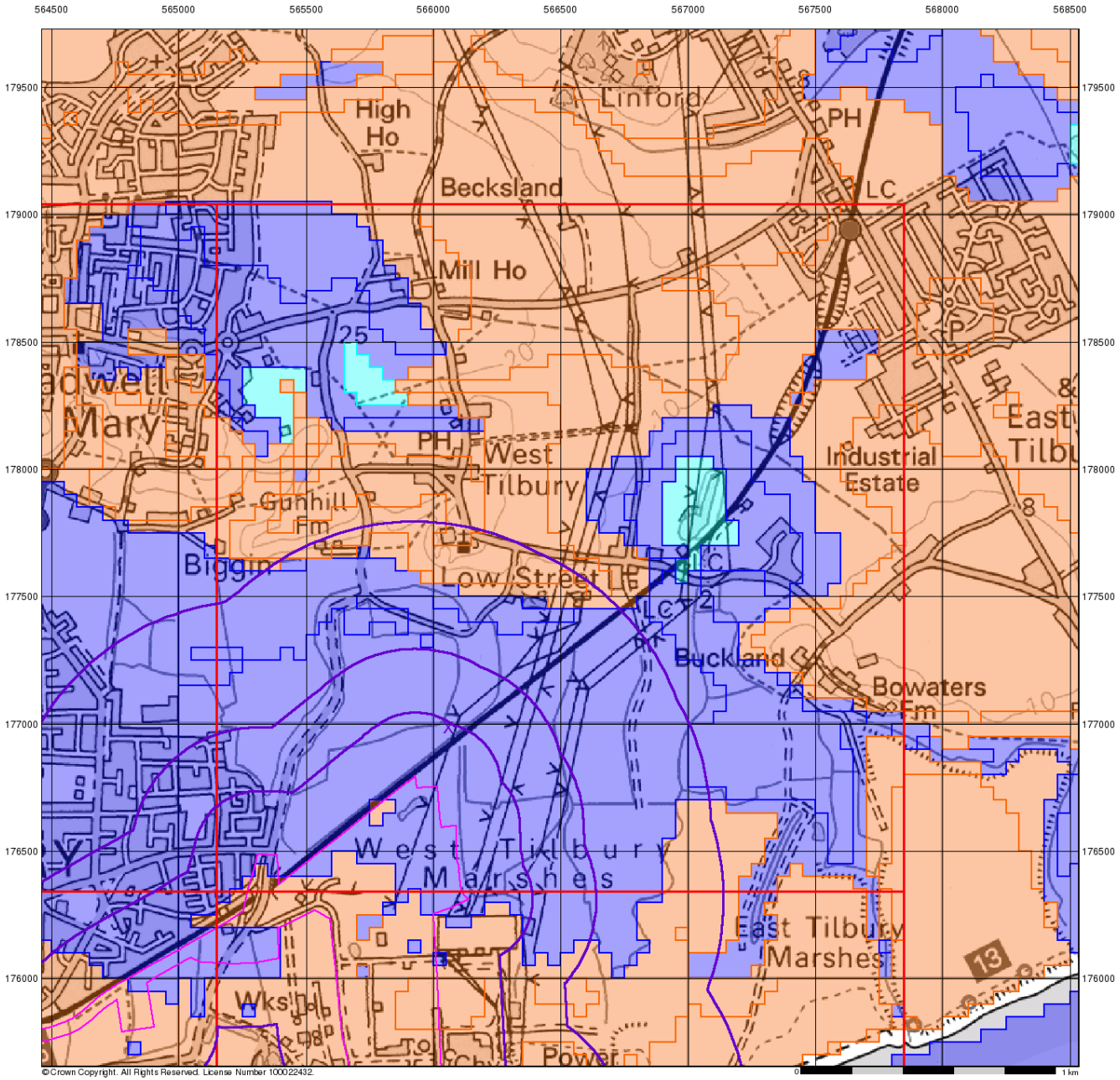

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BGS Flood GFS Data

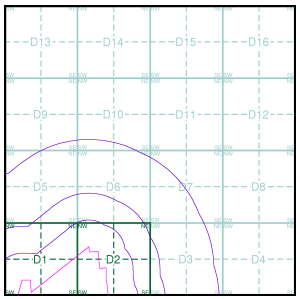
General

Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice

Agency and Hydrological (Flood)

- Limited Potential for Groundwater Flooding to Occur
- Potential for Groundwater Flooding of Property Situated Below Ground Level
- Potential for Groundwater Flooding to Occur at Surface

Site Sensitivity Context Map - Slice D



Order Details

Order Number:	107251247_1_1
Customer Ref:	5153187- 211 Tilbury Power Station
National Grid Reference:	566060, 176990
Slice:	D
Site Area (Ha):	81.8
Search Buffer (m):	1000

Site Details

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Envirocheck® Report:

Datasheet

Order Details:

Order Number:
107251247_1_1

Customer Reference:
5153187- 211 Tilbury Power Station

National Grid Reference:
566060, 176990

Slice:
D

Site Area (Ha):
81.8

Search Buffer (m):
1000

Site Details:

Gravesend

Client Details:

Ms T Radford
Atkins Ltd
The Wells
3-13 Church Street
Epsom
Surrey
KT17 4PF

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Contents

Introduction

The Environment Act 1995 has made site sensitivity a key issue, as the legislation pays as much attention to the pathways by which contamination could spread, and to the vulnerable targets of contamination, as it does the potential sources of contamination.
For this reason, Landmark's Site Sensitivity maps and Datasheet(s) place great emphasis on statutory data provided by the Environment Agency/Natural Resources Wales and the Scottish Environment Protection Agency; it also incorporates data from Natural England (and the Scottish and Welsh equivalents) and Local Authorities; and highlights hydrogeological features required by environmental and geotechnical consultants. It does not include any information concerning past uses of land. The datasheet is produced by querying the Landmark database to a distance defined by the client from a site boundary provided by the client.

In the attached datasheet the National Grid References (NGRs) are rounded to the nearest 10m in accordance with Landmark's agreements with a number of Data Suppliers.

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Peter Brett Associates Copyright Notice

Radon Potential dataset Copyright Notice

Report Version v50.0

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Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
BGS Groundwater Flooding Susceptibility	pg 1	Yes	Yes	Yes	n/a
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 1	2	1		
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
Enforcement and Prohibition Notices					
Integrated Pollution Controls					
Integrated Pollution Prevention And Control					
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls					
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 2	Yes			
Pollution Incidents to Controlled Waters					
Prosecutions Relating to Authorised Processes					
Registered Radioactive Substances					
River Quality					
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register					
Water Abstractions	pg 2				(*34)
Water Industry Act Referrals					
Groundwater Vulnerability	pg 10	Yes	n/a	n/a	n/a
Drift Deposits	pg 11	1	n/a	n/a	n/a
Bedrock Aquifer Designations	pg 11	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 11	Yes	n/a	n/a	n/a
Source Protection Zones	pg 11				1
Extreme Flooding from Rivers or Sea without Defences	pg 11	Yes		n/a	n/a
Flooding from Rivers or Sea without Defences	pg 11	Yes		n/a	n/a
Areas Benefiting from Flood Defences	pg 11	Yes		n/a	n/a
Flood Water Storage Areas	pg 11	Yes		n/a	n/a
Flood Defences				n/a	n/a
Detailed River Network Lines	pg 11	Yes	Yes	Yes	n/a
Detailed River Network Offline Drainage	pg 13			Yes	n/a

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Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites					
Historical Landfill Sites	pg 14			1	
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)	pg 14		1		2
Licensed Waste Management Facilities (Locations)					
Local Authority Landfill Coverage	pg 14	1	n/a	n/a	n/a
Local Authority Recorded Landfill Sites	pg 14		1		
Potentially Infilled Land (Non-Water)	pg 14				2
Potentially Infilled Land (Water)	pg 14	3			5
Registered Landfill Sites	pg 15			1	1
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites					
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					

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Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Geological					
BGS 1:625,000 Solid Geology	pg 17	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 17	Yes	Yes	Yes	Yes
BGS Recorded Mineral Sites	pg 18				3
BGS Urban Soil Chemistry	pg 19	Yes			
BGS Urban Soil Chemistry Averages	pg 19	Yes			
Brine Compensation Area			n/a	n/a	n/a
Coal Mining Affected Areas			n/a	n/a	n/a
Mining Instability			n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain				n/a	n/a
Potential for Collapsible Ground Stability Hazards				n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 20	Yes		n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 20	Yes		n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 20	Yes		n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 20	Yes		n/a	n/a
Radon Potential - Radon Affected Areas			n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a
Industrial Land Use					
Contemporary Trade Directory Entries					
Fuel Station Entries					
Points of Interest - Commercial Services					
Points of Interest - Education and Health					
Points of Interest - Manufacturing and Production	pg 21				2
Points of Interest - Public Infrastructure	pg 21				1
Points of Interest - Recreational and Environmental					
Gas Pipelines					
Underground Electrical Cables					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Sensitive Land Use					
Ancient Woodland					
Areas of Adopted Green Belt	pg 22	1			
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves	pg 22	1			
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones					
Ramsar Sites					
Sites of Special Scientific Interest					
Special Areas of Conservation					
Special Protection Areas					
World Heritage Sites					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	D2NW (E)	0	2	566058 176986
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(S)	0	2	565950 176150
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(S)	0	2	566050 176100
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(S)	0	2	565850 176300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(W)	0	2	565000 176986
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(SW)	0	2	565000 175900
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	D2SW (S)	0	2	565850 176450
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(S)	0	2	566050 175400
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(S)	0	2	565800 176250
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	D2NW (SW)	0	2	565850 176700
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(S)	0	2	566058 176000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(S)	0	2	565750 176050
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SW)	43	2	564850 175750
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SW)	160	2	565300 175900
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(S)	187	2	566350 175750
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(S)	382	2	566400 176000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(SE)	482	2	567000 175900
1	**Discharge Consents** Operator: National Power Plc Property Type: Undefined Or Other Location: Tilbury Marshes, Tilbury, Essex Authority: Environment Agency, Anglian Region Catchment Area: Not Given Reference: Pr2nfe02865 Permit Version: 2 Effective Date: 29th January 1992 Issued Date: 29th January 1992 Revocation Date: 26th January 2001 Discharge Type: Trade Discharges - Process Effluent - Water Company (Wtw) Discharge Environment: Tidal Waters Receiving Water: Trib Tidal River Thames **Status: Post National Rivers Authority Legislation where issue date > 31/08/1989** Positional Accuracy: Located by supplier to within 100m	D1SE (SW)	0	3	565800 176400

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	**Discharge Consents** Operator: National Power Plc Property Type: Undefined Or Other Location: Tilbury Marshes, Tilbury, Essex Authority: Environment Agency, Anglian Region Catchment Area: Not Supplied Reference: Pr2nfe02865 Permit Version: 1 Effective Date: 9th March 1965 Issued Date: 9th March 1965 Revocation Date: 28th January 1992 Discharge Type: Trade Effluent Discharge Environment: Freshwater Stream/River Receiving Water: Unknown Trib. River Thames **Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989** Positional Accuracy: Located by supplier to within 100m	D1SE (SW)	0	3	565800 176400
2	**Discharge Consents** Operator: The Residents Property Type: Not Supplied Location: Res. Devlpt East Of Bryanston Road, Tilbury, Essex Authority: Environment Agency, Anglian Region Catchment Area: Not Supplied Reference: Pr2nfe17969 Permit Version: 1 Effective Date: 14th October 1969 Issued Date: 14th October 1969 Revocation Date: 25th February 1993 Discharge Type: Discharge Of Other Matter-Surface Water Discharge Environment: Not Supplied Receiving Water: Not Supplied **Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989** Positional Accuracy: Manually corrected supplier location	D1SW (SW)	110	3	565200 176500
	Nearest Surface Water Feature	D2SW (S)	0	-	565893 176548
	Water Abstractions Operator: C H Cole & Sons Licence Number: 8/37/56/*G/0006 Permit Version: 101 Location: Well 2 At Polwicks, West Tilbury Authority: Environment Agency, Anglian Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Polwicks Candover & Becksland Tilbury Essex Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 17th December 2003 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	D7NW (NE)	1155	3	566800 177600
	Water Abstractions Operator: C H Cole & Sons Licence Number: 8/37/56/*G/0006 Permit Version: 101 Location: Well 2 At Polwicks, West Tilbury Authority: Environment Agency, Anglian Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 October Permit Start Date: 17th December 2003 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	D7NW (NE)	1155	3	566800 177600

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: C H Cole & Sons Licence Number: 8/37/56/*G/0006 Permit Version: 100 Location: Well 2 At Polwicks, West Tilbury Authority: Environment Agency, Anglian Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st July 1998 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	D7NW (NE)	1155	3	566800 177600
	Water Abstractions Operator: C H Cole & Sons Licence Number: 8/37/56/*G/0006 Permit Version: 100 Location: Well 2 At Polwicks, West Tilbury Authority: Environment Agency, Anglian Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 October Permit Start Date: 1st July 1998 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	D7NW (NE)	1155	3	566800 177600
	Water Abstractions Operator: C H Cole & Sons Licence Number: 8/37/56/*G/0006 Permit Version: 101 Location: Well 1 At Polwicks, West Tilbury Authority: Environment Agency, Anglian Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Polwicks Candover & Becksland Essex Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 17th December 2003 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	D11SE (NE)	1438	3	567000 177800
	Water Abstractions Operator: C H Cole & Sons Licence Number: 8/37/56/*G/0006 Permit Version: 101 Location: Excav At Polwicks,West Tilbury Authority: Environment Agency, Anglian Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Polwicks Candover & Becksland Grays Essex Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 17th December 2003 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	D11SE (NE)	1438	3	567000 177800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: C H Cole & Sons Licence Number: 8/37/56/*G/0006 Permit Version: 101 Location: Excav At Polwicks,West Tilbury Authority: Environment Agency, Anglian Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Polwicks Candover & Becksland Essex Authorised Start: 01 April Authorised End: 31 October Permit Start Date: 17th December 2003 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	D11SE (NE)	1438	3	567000 177800
	Water Abstractions Operator: C H Cole & Sons Licence Number: 8/37/56/*G/0006 Permit Version: 101 Location: Well 1 At Polwicks, West Tilbury Authority: Environment Agency, Anglian Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 October Permit Start Date: 17th December 2003 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	D11SE (NE)	1438	3	567000 177800
	Water Abstractions Operator: C H Cole & Sons Licence Number: 8/37/56/*G/0006 Permit Version: 100 Location: Excav At Polwicks,West Tilbury Authority: Environment Agency, Anglian Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st July 1998 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	D11SE (NE)	1438	3	567000 177800
	Water Abstractions Operator: C H Cole & Sons Licence Number: 8/37/56/*G/0006 Permit Version: 100 Location: Well 1 At Polwicks, West Tilbury Authority: Environment Agency, Anglian Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 October Permit Start Date: 1st July 1998 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	D11SE (NE)	1438	3	567000 177800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: C H Cole & Sons Licence Number: 8/37/56/*G/0006 Permit Version: 100 Location: Excav At Polwicks,West Tilbury Authority: Environment Agency, Anglian Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 October Permit Start Date: 1st July 1998 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	D11SE (NE)	1438	3	567000 177800
	Water Abstractions Operator: C H Cole & Sons Licence Number: 8/37/56/*G/0006 Permit Version: 100 Location: Well 1 At Polwicks, West Tilbury Authority: Environment Agency, Anglian Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st July 1998 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	D11SE (NE)	1438	3	567000 177800
	Water Abstractions Operator: Rwe Innogy Plc Licence Number: 8/37/56/*G/0073 Permit Version: 104 Location: 4 Boreholes, Low St, East Tilbury Authority: Environment Agency, Anglian Region Abstraction: Machinery and Electronics: General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st October 2003 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	D12SW (NE)	1582	3	567200 177800
	Water Abstractions Operator: Rwe Innogy Plc Licence Number: 8/37/56/*G/0073 Permit Version: 104 Location: 4 Boreholes, Low St, East Tilbury Authority: Environment Agency, Anglian Region Abstraction: Commercial/Industrial/Public Services: Drinking; Cooking; Sanitary; Washing; (Small Garden) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st October 2003 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	D12SW (NE)	1582	3	567200 177800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Rwe Innogy Plc Licence Number: 8/37/56/*G/0073 Permit Version: 104 Location: 4 Boreholes, Low St, East Tilbury Authority: Environment Agency, Anglian Region Abstraction: Private Water Undertaking: General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 16 January Authorised End: 30 September Permit Start Date: 1st October 2003 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	D12SW (NE)	1582	3	567200 177800
	Water Abstractions Operator: Innogy Plc Licence Number: 8/37/56/*G/0073 Permit Version: 103 Location: 4 Boreholes, Low St.,E. Tilbury Authority: Environment Agency, Anglian Region Abstraction: Water Supply Related: General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 21st July 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	D12SW (NE)	1582	3	567200 177800
	Water Abstractions Operator: Innogy Plc Licence Number: 8/37/56/*G/0073 Permit Version: 103 Location: 4 Boreholes, Low St.,E. Tilbury Authority: Environment Agency, Anglian Region Abstraction: Machinery and Electronics: General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 21st July 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	D12SW (NE)	1582	3	567200 177800
	Water Abstractions Operator: Innogy Plc Licence Number: 8/37/56/*G/0073 Permit Version: 103 Location: 4 Boreholes, Low St.,E. Tilbury Authority: Environment Agency, Anglian Region Abstraction: Private Water Undertaking: General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 16 January Authorised End: 30 September Permit Start Date: 21st July 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	D12SW (NE)	1582	3	567200 177800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Npower Licence Number: 8/37/56/*G/0073 Permit Version: 101 Location: 4 Boreholes, Low St.,E. Tilbury Authority: Environment Agency, Anglian Region Abstraction: Other Industrial/Commercial/Public Services: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 19th January 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	D12SW (NE)	1582	3	567200 177800
	Water Abstractions Operator: Npower Licence Number: 8/37/56/*G/0073 Permit Version: 101 Location: 4 Boreholes, Low St.,E. Tilbury Authority: Environment Agency, Anglian Region Abstraction: Other Industrial/Commercial/Public Services: Hydraulic Testing Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 19th January 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	D12SW (NE)	1582	3	567200 177800
	Water Abstractions Operator: Npower Licence Number: 8/37/56/*G/0073 Permit Version: 101 Location: 4 Boreholes, Low St.,E. Tilbury Authority: Environment Agency, Anglian Region Abstraction: Private Water Undertaking: General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 16 January Authorised End: 30 September Permit Start Date: 19th January 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	D12SW (NE)	1582	3	567200 177800
	Water Abstractions Operator: National Power Plc, Licence Number: 8/37/56/*g/073 Permit Version: Not Supplied Location: Borehole 1, Low Street, EAST TILBURY Authority: Environment Agency, Anglian Region Abstraction: Cooling Abstraction Type: Not Supplied Source: Well And Borehole Daily Rate (m3): 1100 Yearly Rate (m3): 5500000 Details: Not Supplied Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	D12SW (NE)	1661	3	567230 177885

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: National Power Plc, Licence Number: 8/37/56/*g/073 Permit Version: Not Supplied Location: Borehole 1, Low Street, EAST TILBURY Authority: Environment Agency, Anglian Region Abstraction: Cooling Abstraction Type: Not Supplied Source: Well And Borehole Daily Rate (m3): 1100 Yearly Rate (m3): 5500000 Details: Not Supplied Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	D12SW (NE)	1664	3	567270 177845
	Water Abstractions Operator: National Power Plc, Licence Number: 8/37/56/*g/073 Permit Version: Not Supplied Location: Borehole 4 Low St, EAST TILBURY Authority: Environment Agency, Anglian Region Abstraction: Unspecified Abstraction Type: Not Supplied Source: Well And Borehole Daily Rate (m3): 1100 Yearly Rate (m3): 5500000 Details: Not Supplied Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	D12SW (NE)	1667	3	567270 177850
	Water Abstractions Operator: National Power Plc, Licence Number: 8/37/56/*g/073 Permit Version: Not Supplied Location: Borehole 4 Low St, EAST TILBURY Authority: Environment Agency, Anglian Region Abstraction: Unspecified Abstraction Type: Not Supplied Source: Well And Borehole Daily Rate (m3): 1100 Yearly Rate (m3): 5500000 Details: Not Supplied Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	D12SW (NE)	1668	3	567230 177895
	Water Abstractions Operator: National Power Plc, Licence Number: 8/37/56/*g/073 Permit Version: Not Supplied Location: Borehole 2, Low Street, EAST TILBURY Authority: Environment Agency, Anglian Region Abstraction: Private Water Undertaking Abstraction Type: Not Supplied Source: Well And Borehole Daily Rate (m3): 1100 Yearly Rate (m3): 5500000 Details: Not Supplied Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	D12SW (NE)	1668	3	567275 177845

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: National Power Plc, Licence Number: 8/37/56/*g/073 Permit Version: Not Supplied Location: Borehole 3 Low St, EAST TILBURY Authority: Environment Agency, Anglian Region Abstraction: Unspecified Abstraction Type: Not Supplied Source: Well And Borehole Daily Rate (m3): 6 Yearly Rate (m3): 5500000 Details: Not Supplied Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	D12SW (NE)	1671	3	567275 177850
	Water Abstractions Operator: National Power Plc, Licence Number: 8/37/56/*g/073 Permit Version: Not Supplied Location: Borehole 2, Low Street, EAST TILBURY Authority: Environment Agency, Anglian Region Abstraction: Private Water Undertaking Abstraction Type: Not Supplied Source: Well And Borehole Daily Rate (m3): 1100 Yearly Rate (m3): 5500000 Details: Not Supplied Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	D12SW (NE)	1693	3	567265 177895
	Water Abstractions Operator: National Power Plc, Licence Number: 8/37/56/*g/073 Permit Version: Not Supplied Location: Borehole 1, Low Street, EAST TILBURY Authority: Environment Agency, Anglian Region Abstraction: Cooling Abstraction Type: Not Supplied Source: Well And Borehole Daily Rate (m3): 1100 Yearly Rate (m3): 5500000 Details: Not Supplied Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	D12SW (NE)	1693	3	567255 177905
	Water Abstractions Operator: National Power Plc, Licence Number: 8/37/56/*g/073 Permit Version: Not Supplied Location: Borehole 1, Low Street, EAST TILBURY Authority: Environment Agency, Anglian Region Abstraction: Cooling Abstraction Type: Not Supplied Source: Well And Borehole Daily Rate (m3): 1100 Yearly Rate (m3): 5500000 Details: Not Supplied Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	D12SW (NE)	1694	3	567310 177845

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: National Power Plc, Licence Number: 8/37/56/*g/073 Permit Version: Not Supplied Location: Borehole 4 Low St, EAST TILBURY Authority: Environment Agency, Anglian Region Abstraction: Unspecified Abstraction Type: Not Supplied Source: Well And Borehole Daily Rate (m3): 1100 Yearly Rate (m3): 5500000 Details: Not Supplied Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	D12SW (NE)	1696	3	567260 177905
	Water Abstractions Operator: National Power Plc, Licence Number: 8/37/56/*g/073 Permit Version: Not Supplied Location: Borehole 4 Low St, EAST TILBURY Authority: Environment Agency, Anglian Region Abstraction: Unspecified Abstraction Type: Not Supplied Source: Well And Borehole Daily Rate (m3): 1100 Yearly Rate (m3): 5500000 Details: Not Supplied Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	D12SW (NE)	1698	3	567310 177850
	Water Abstractions Operator: National Power Plc, Licence Number: 8/37/56/*g/073 Permit Version: Not Supplied Location: Borehole 2, Low Street, EAST TILBURY Authority: Environment Agency, Anglian Region Abstraction: Private Water Undertaking Abstraction Type: Not Supplied Source: Well And Borehole Daily Rate (m3): 1100 Yearly Rate (m3): 5500000 Details: Not Supplied Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	D12SW (NE)	1698	3	567315 177845
	Water Abstractions Operator: National Power Plc, Licence Number: 8/37/56/*g/073 Permit Version: Not Supplied Location: Borehole 3 Low St, EAST TILBURY Authority: Environment Agency, Anglian Region Abstraction: Unspecified Abstraction Type: Not Supplied Source: Well And Borehole Daily Rate (m3): 6 Yearly Rate (m3): 5500000 Details: Not Supplied Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	D12SW (NE)	1705	3	567315 177855
	Groundwater Vulnerability Soil Classification: Not classified Map Sheet: Sheet 40 Thames Estuary Scale: 1:100,000	(S)	0	3	566529 175468
	Groundwater Vulnerability Soil Classification: Soils of High Leaching Potential (U) - Soil information for restored mineral workings and urban areas is based on fewer observations than elsewhere. A worst case vulnerability classification (H) assumed, until proved otherwise Map Sheet: Sheet 40 Thames Estuary Scale: 1:100,000	D1NE (SW)	0	3	565764 176742

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Groundwater Vulnerability Soil Classification: Soils of High Leaching Potential (H1) - Soils which readily transmit liquid discharges because they are either shallow, or susceptible to rapid by-pass flow directly to rock, gravel or groundwater Map Sheet: Sheet 40 Thames Estuary Scale: 1:100,000	D2NW (E)	0	3	566058 176986
	Drift Deposits Drift Deposit: Low permeability drift deposits occuring at the surface and overlying Major and Minor Aquifers are head, clay-with-flints, brickearth, peat, river terrace deposits and marine and estuarine alluvium Map Sheet: Sheet 40 Thames Estuary Scale: 1:100,000	D2NW (E)	0	3	566058 176986
	Bedrock Aquifer Designations Aquifer Designation: Principal Aquifer	(W)	0	2	565000 176986
	Bedrock Aquifer Designations Aquifer Designation: Principal Aquifer	D2NW (E)	0	2	566058 176986
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - Undifferentiated	D2NW (E)	0	2	566058 176986
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - Undifferentiated	(W)	0	2	565000 176986
	Superficial Aquifer Designations Aquifer Designation: Unproductive Strata	(S)	0	2	566576 175507
3	**Source Protection Zones** Name: Various Source: Environment Agency, Head Office Reference: Not Supplied Type: Zone III (Total Catchment): The total area needed to support the discharge from the protected groundwater source.	D6NE (NE)	973	3	566446 177625
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	D2NW (E)	0	3	566058 176986
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	D2NW (E)	0	3	566058 176986
	Areas Benefiting from Flood Defences Type: Area Benefiting from Flood Defences Boundary Accuracy: As Supplied	D2NW (E)	0	3	566058 176986
	Flood Water Storage Areas Type: Flood Water Storage Areas Reference: Not Supplied	D2NW (E)	0	3	566058 176986
	Flood Defences None				
4	**Detailed River Network Lines** River Type: Primary River River Name: Drain Hydrographic Area: B06 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Currently Undefined Flood Risk Management Status: Flood Risk Management Indicative/Statutory Main River Water Course Name: Not Supplied Water Course Reference: 1359	D1NW (W)	0	3	565409 176718

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
5	**Detailed River Network Lines** River Type: Primary River River Name: Drain Hydrographic Area: B06 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Currently Undefined Flood Risk Management Status: Flood Risk Management Indicative/Statutory Main River Water Course Name: Not Supplied Water Course Reference: 1359	D1SW (SW)	0	3	565422 176428
6	**Detailed River Network Lines** River Type: Primary River River Name: Not Supplied Hydrographic Area: B06 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk Management Status: Flood Risk Management Indicative/Statutory Main River Water Course Name: Not Supplied Water Course Reference: 1359	D1SE (SW)	0	3	565501 176360
7	**Detailed River Network Lines** River Type: Secondary River River Name: Drain Hydrographic Area: B06 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Drain (ditch, Reen, Rhyne, Drain) Flood Risk Management Status: Other Rivers Water Course Name: Not Supplied Water Course Reference: Not Supplied	D1SW (SW)	0	3	565289 176351
8	**Detailed River Network Lines** River Type: Extended Culvert (greater than 50m) River Name: Not Supplied Hydrographic Area: B06 River Flow Type: Primary Flow Path River Surface Level: Below Surface Drain Feature: Not a Drain Flood Risk Management Status: Flood Risk Management Indicative/Statutory Main River Water Course Name: Not Supplied Water Course Reference: 1359	D1SE (SW)	0	3	565501 176360
9	**Detailed River Network Lines** River Type: Secondary River River Name: Not Supplied Hydrographic Area: B06 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk Management Status: Other Rivers Water Course Name: Not Supplied Water Course Reference: Not Supplied	D1SW (SW)	0	3	565367 176479
10	**Detailed River Network Lines** River Type: Primary River River Name: Not Supplied Hydrographic Area: B06 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk Management Status: Flood Risk Management Indicative/Statutory Main River Water Course Name: Not Supplied Water Course Reference: 1359	D1NW (W)	220	3	565377 176715

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
11	**Detailed River Network Lines** River Type: Primary River River Name: Not Supplied Hydrographic Area: B06 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk Management Status: Flood Risk Management Indicative/Statutory Main River Water Course Name: Not Supplied Water Course Reference: 1359	D1NW (W)	230	3	565409 176718
12	**Detailed River Network Lines** River Type: Secondary River River Name: Drain Hydrographic Area: B06 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Drain (ditch, Reen, Rhyne, Drain) Flood Risk Management Status: Other Rivers Water Course Name: Not Supplied Water Course Reference: Not Supplied	D5SE (W)	230	3	565604 177142
13	**Detailed River Network Lines** River Type: Primary River River Name: Drain Hydrographic Area: B06 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Currently Undefined Flood Risk Management Status: Flood Risk Management Indicative/Statutory Main River Water Course Name: Not Supplied Water Course Reference: 1359	D5SE (W)	235	3	565615 177051
14	**Detailed River Network Lines** River Type: Secondary River River Name: Drain Hydrographic Area: B06 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Drain (ditch, Reen, Rhyne, Drain) Flood Risk Management Status: Other Rivers Water Course Name: Not Supplied Water Course Reference: Not Supplied	D6SW (N)	395	3	566115 177324
15	**Detailed River Network Offline Drainage** River Type: Tertiary River Hydrographic Area: D006	D1NW (W)	342	3	565225 176937

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
16	**Historical Landfill Sites** Licence Holder: Not Supplied Location: East Tilbury Marshes, Tilbury, Thurrock Name: Tilbury Power Station Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD31052 First Input Date: 15th February 1968 Last Input Date: Not Supplied Specified Waste Type: Deposited Waste included Inert and Industrial Waste, and Liquid Sludge EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: Not Supplied BGS Ref: 1948 Other Ref: Not Supplied	(SE)	351	3	566795 176290
17	**Licensed Waste Management Facilities (Landfill Boundaries)** Name: Area A3 Licence Number: 71186 Location: Tilbury B Power Station, Fort Road, Tilbury, Essex, RM18 8UJ Licence Holder: R W E Npower Plc Authority: Environment Agency - Anglian Region, Eastern Area Site Category: Industrial Waste Landfills Max Input Rate: Not Supplied **Licence Status: Expired** Issued: 22nd June 2001 Positional Accuracy: Positioned by the supplier Boundary Accuracy: As Supplied	D2SE (SE)	127	3	566488 176600
18	**Licensed Waste Management Facilities (Landfill Boundaries)** Name: Area A1, A2 & C Licence Number: 70298 Location: Tilbury B Power Station, Fort Road, Tilbury, Essex, RM18 8UJ Licence Holder: R W E Npower Plc Authority: Environment Agency - Anglian Region, Eastern Area Site Category: Industrial Waste Landfills Max Input Rate: Not Supplied **Licence Status: Expired** Issued: 27th August 1991 Positional Accuracy: Positioned by the supplier Boundary Accuracy: As Supplied	D3SE (E)	771	3	566939 176670
19	**Licensed Waste Management Facilities (Landfill Boundaries)** Name: Area C2 Licence Number: 71185 Location: Tilbury B Power Station, Fort Road, Tilbury, Essex, RM18 8UJ Licence Holder: R W E Npower Plc Authority: Environment Agency - Anglian Region, Eastern Area Site Category: Industrial Waste Landfills Max Input Rate: Not Supplied **Licence Status: Expired** Issued: 22nd June 2001 Positional Accuracy: Positioned by the supplier Boundary Accuracy: As Supplied	D3NE (E)	881	3	566964 176867
	Local Authority Landfill Coverage Name: Thurrock Unitary Council - Has supplied landfill data		0	4	566058 176986
20	**Local Authority Recorded Landfill Sites** Location: Tilbury B Power Station Reference: THU011 Authority: Thurrock Borough Council, Environmental Health Department **Last Reported Status: Unknown** Types of Waste: Fly Ash Date of Closure: Not Supplied Positional Accuracy: Positioned by the supplier Boundary Quality: Moderate	D2NE (E)	121	4	566470 177001
21	**Potentially Infilled Land (Non-Water)** Bearing Ref: NE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	D7NW (NE)	919	-	566549 177501
22	**Potentially Infilled Land (Non-Water)** Bearing Ref: NE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	D7NW (NE)	973	-	566645 177495
23	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1961	D2SW (S)	0	-	566085 176493

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
24	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1961	D2SW (S)	0	-	566093 176421
25	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1961	D1SE (SW)	0	-	565769 176554
26	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1961	D6NW (N)	765	-	565910 177559
27	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1961	D5SW (W)	781	-	565166 177272
28	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1961	D5NE (NW)	896	-	565537 177601
29	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1961	D5NW (NW)	911	-	565259 177427
30	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1961	D5NW (NW)	980	-	565436 177642
31	**Registered Landfill Sites** Licence Holder: International Power Plc Licence Reference: EAWML71186 Site Location: Area A3 Tilbury B Power Station, Fort Road, TILBURY, Essex, RM18 8UJ Licence Easting: 566500 Licence Northing: 176350 Operator Location: Senator House, 85 Queen Victoria street, LONDON, Greater London, EC4V 4DP Authority: Environment Agency - Anglian Region, Eastern Area Site Category: Landfill Max Input Rate: Very Large (Equal to or greater than 250,000 tonnes per year) Waste Source Restrictions: Only waste produced on site Status: Site not yet started Dated: 22nd June 2001 Preceded By Licence: Not Given Superseded By Licence: Not Given Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Maximum Waste Permitted By Licence Pulverised Fuel Ash From Tilbury B Power Station Only Prohibited Waste: Degradable Commercial Waste (As In Post'98 E.A.Lics & Equivalent To 22.09.02) Degradable Household Waste (As In Post'98 E.A.Lics & Equivalent To 22.09.01) Inert Materials (As In Post'98 E.A.Lics And Equivalent To 21.00.00) Metal Waste/Scrap Metal (As In Post'98 E.A.Lics And Equivalent To 23.00.00) Other Waste / Waste Not Otherwise Specified Powders Sludges/Liquids/Pastes Special Waste (As In Epa 1990:S62 Of 1996 Regs) Waste Liable To Generate List I Substances In Eec Directive 80/68/Eec Waste Liable To Generate List Ii Substances In Eec Directive 80/68/Eec	D3SW (SE)	364	3	566500 176350

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
32	**Registered Landfill Sites** Licence Holder: National Power Plc Licence Reference: 38/78 Site Location: Tilbury B Power Station, Fort Road, TILBURY, Essex, RM18 8UJ Licence Easting: Not Supplied Licence Northing: Not Supplied Operator Location: Windmill Hill Business Park, Whitehill Way, SWINDON, Wiltshire, SN5 6PB Authority: Environment Agency - Anglian Region, Eastern Area Site Category: Landfill Max Input Rate: Large (Equal to or greater than 75,000 and less than 250,000 tonnes per year) Waste Source Restrictions: Waste produced/controlled by licence holder Status: Operational as far as is knownOperational Dated: 20th January 1978 Preceded By Licence: Not Given Superseded By Licence: 193/91 Positional Accuracy: Positioned by the supplier Boundary Accuracy: Moderate Authorised Waste: Incinerator Residues Pulverised Fuel Ash	(SE)	588	3	566794 176289

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: White Chalk Subgroup	D2NW (E)	0	2	566058 176986
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 90 - 120 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	D2NW (W)	0	2	566000 176986
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	D2NW (E)	0	2	566058 176986
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	D2SW (S)	0	2	566058 176500
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	D2NW (W)	81	2	566000 177000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 300 - 600 mg/kg Nickel Concentration: 15 - 30 mg/kg	D3SW (SE)	362	2	566500 176500
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	D3NW (E)	405	2	566500 176986

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 40 - 60 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	D6NE (NE)	854	2	566320 177564
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	D7NW (NE)	861	2	566500 177464
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: 1.8 - 2.2 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: >1200 mg/kg Nickel Concentration: 15 - 30 mg/kg	D3SE (SE)	862	2	567000 176500
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 300 - 600 mg/kg Nickel Concentration: 15 - 30 mg/kg	D3NE (E)	883	2	567000 176986
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	D7NW (NE)	974	2	566616 177519
33	**BGS Recorded Mineral Sites** Site Name: Condovers Pit Location: , West Tilbury, Grays, Essex Source: British Geological Survey, National Geoscience Information Service Reference: 18570 Type: Opencast **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Quaternary Geology: Taplow Gravel Formation (Taplow Terrace) Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	D6NE (NE)	957	2	566460 177600

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
33	**BGS Recorded Mineral Sites** Site Name: Condovers Pit Location: , West Tilbury, Grays, Essex Source: British Geological Survey, National Geoscience Information Service Reference: 18570 Type: Opencast **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Thanetian Geology: Thanet Formation Commodity: Sand Positional Accuracy: Located by supplier to within 10m	D6NE (NE)	957	2	566460 177600
34	**BGS Recorded Mineral Sites** Site Name: Low Street Gravel Pit Location: , Low Street, Chadwell St Mary, Purfleet, Essex Source: British Geological Survey, National Geoscience Information Service Reference: 182129 Type: Opencast **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Quaternary Geology: Taplow Gravel Formation Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	D7NW (NE)	970	2	566622 177510
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 565829, 176515 Soil Sample Type: Topsoil Sample Area: London Arsenic Measured Concentration: 82.30 mg/kg Cadmium Measured Concentration: 1.00 mg/kg Chromium Measured Concentration: 173.50 mg/kg Lead Measured Concentration: 229.50 mg/kg Nickel Measured Concentration: 209.50 mg/kg	D2SW (SW)	0	2	565829 176515
	BGS Urban Soil Chemistry Averages Source: British Geological Survey, National Geoscience Information Service Sample Area: London Count Id: 7209 Arsenic Minimum Concentration: 1.00 mg/kg Arsenic Average Concentration: 17.00 mg/kg Arsenic Maximum Concentration: 161.00 mg/kg Cadmium Minimum Concentration: 0.10 mg/kg Cadmium Average Concentration: 0.90 mg/kg Cadmium Maximum Concentration: 165.20 mg/kg Chromium Minimum Concentration: 13.00 mg/kg Chromium Average Concentration: 79.00 mg/kg Chromium Maximum Concentration: 2094.00 mg/kg Lead Minimum Concentration: 11.00 mg/kg Lead Average Concentration: 280.00 mg/kg Lead Maximum Concentration: 10000.00 mg/kg Nickel Minimum Concentration: 2.00 mg/kg Nickel Average Concentration: 28.00 mg/kg Nickel Maximum Concentration: 506.00 mg/kg	D2NW (E)	0	2	566058 176986
	Coal Mining Affected Areas In an area that might not be affected by coal mining				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Non Coal Mining Areas of Great Britain No Hazard				
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	D2NW (E)	0	2	566058 176986
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	D2NW (SE)	0	2	566083 176955
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	D2NW (E)	0	2	566058 176986
	Potential for Compressible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	D2NW (SE)	0	2	566066 176975
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	D1SE (SW)	0	2	565691 176371
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	D1SE (SW)	0	2	565583 176395
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	D1SE (SW)	0	2	565653 176598
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	D2NW (E)	0	2	566058 176986
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	D2NW (E)	0	2	566058 176986
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	D2NW (E)	0	2	566058 176986
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	D2NW (E)	0	2	566058 176986
	Radon Potential - Radon Affected Areas Affected Area: The property is in a Lower probability radon area (less than 1% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	D2NW (E)	0	2	566058 176986
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	D2NW (E)	0	2	566058 176986

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
35	**Points of Interest - Manufacturing and Production** Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	D7NW (NE)	939	5	566571 177510
35	**Points of Interest - Manufacturing and Production** Name: Works Location: RM18 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	D7NW (NE)	939	5	566570 177511
36	**Points of Interest - Public Infrastructure** Name: Slag Tip Location: RM18 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	D3SE (E)	889	5	566975 176663

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
37	**Areas of Adopted Green Belt** Authority: Thurrock Borough Council, Development Control Plan Name: Core Strategy **Status: Adopted** Plan Date: 21st December 2011	D2NW (E)	0	6	566058 176986
38	**Marine Nature Reserves** Name: Thames Estuary Multiple Area: Y Area (m2): 10874320.9 Source: Natural England	(S)	0	7	566491 175444

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices		
Medway Council - Environmental Health	August 2013	Annual Rolling Update
Thurrock Borough Council - Environmental Health Department	November 2013	Annually
Gravesham Borough Council - Public Health Services	September 2013	Annual Rolling Update
Discharge Consents		
Environment Agency - Anglian Region	October 2016	Quarterly
Environment Agency - Southern Region	October 2016	Quarterly
Enforcement and Prohibition Notices		
Environment Agency - Anglian Region	March 2013	As notified
Environment Agency - Southern Region	March 2013	As notified
Integrated Pollution Controls		
Environment Agency - Anglian Region	October 2008	Not Applicable
Environment Agency - Southern Region	October 2008	Not Applicable
Integrated Pollution Prevention And Control		
Environment Agency - Anglian Region	October 2016	Quarterly
Environment Agency - Southern Region	October 2016	Quarterly
Local Authority Integrated Pollution Prevention And Control		
Thurrock Borough Council - Environmental Health Department	February 2015	Annual Rolling Update
Medway Council - Environmental Health	June 2014	Annual Rolling Update
Gravesham Borough Council - Environmental Health Department	October 2014	Annual Rolling Update
London Port Health Authority - Environmental Services	October 2014	Annual Rolling Update
Local Authority Pollution Prevention and Controls		
Thurrock Borough Council - Environmental Health Department	February 2015	Annual Rolling Update
Medway Council - Environmental Health	June 2014	Annual Rolling Update
Gravesham Borough Council - Environmental Health Department	October 2014	Annual Rolling Update
London Port Health Authority - Environmental Services	October 2014	Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements		
Thurrock Borough Council - Environmental Health Department	February 2015	Annual Rolling Update
Medway Council - Environmental Health	June 2014	Annual Rolling Update
Gravesham Borough Council - Environmental Health Department	October 2014	Annual Rolling Update
London Port Health Authority - Environmental Services	October 2014	Annual Rolling Update
Nearest Surface Water Feature		
Ordnance Survey	July 2012	Quarterly
Pollution Incidents to Controlled Waters		
Environment Agency - Southern Region	December 1999	Not Applicable
Environment Agency - Anglian Region	September 1999	Not Applicable
Prosecutions Relating to Authorised Processes		
Environment Agency - Anglian Region	March 2013	As notified
Environment Agency - Southern Region	March 2013	As notified
Prosecutions Relating to Controlled Waters		
Environment Agency - Anglian Region	March 2013	As notified
Environment Agency - Southern Region	March 2013	As notified
River Quality		
Environment Agency - Head Office	November 2001	Not Applicable
River Quality Biology Sampling Points		
Environment Agency - Head Office	July 2012	Annually
River Quality Chemistry Sampling Points		
Environment Agency - Head Office	July 2012	Annually
Substantiated Pollution Incident Register		
Environment Agency - Anglian Region - Eastern Area	October 2016	Quarterly
Environment Agency - Southern Region - Kent Area	October 2016	Quarterly
Environment Agency - Southern Region - Kent and East Sussex	October 2016	Quarterly

Data Currency

Agency & Hydrological	Version	Update Cycle
Water Abstractions		
Environment Agency - Anglian Region	July 2016	Quarterly
Environment Agency - Southern Region	July 2016	Quarterly
Water Industry Act Referrals		
Environment Agency - Anglian Region	October 2016	Quarterly
Environment Agency - Southern Region	October 2016	Quarterly
Groundwater Vulnerability		
Environment Agency - Head Office	April 2015	Not Applicable
Drift Deposits		
Environment Agency - Head Office	January 1999	Not Applicable
Bedrock Aquifer Designations		
British Geological Survey - National Geoscience Information Service	August 2015	As notified
Superficial Aquifer Designations		
British Geological Survey - National Geoscience Information Service	August 2015	As notified
Source Protection Zones		
Environment Agency - Head Office	October 2016	Quarterly
Extreme Flooding from Rivers or Sea without Defences		
Environment Agency - Head Office	October 2016	Quarterly
Flooding from Rivers or Sea without Defences		
Environment Agency - Head Office	October 2016	Quarterly
Areas Benefiting from Flood Defences		
Environment Agency - Head Office	October 2016	Quarterly
Flood Water Storage Areas		
Environment Agency - Head Office	October 2016	Quarterly
Flood Defences		
Environment Agency - Head Office	October 2016	Quarterly
Detailed River Network Lines		
Environment Agency - Head Office	September 2014	Annually
Detailed River Network Offline Drainage		
Environment Agency - Head Office	March 2012	Annually
Surface Water 1 in 30 year Flood Extent		
Environment Agency - Head Office	October 2013	As notified
Surface Water 1 in 100 year Flood Extent		
Environment Agency - Head Office	October 2013	As notified
Surface Water 1 in 1000 year Flood Extent		
Environment Agency - Head Office	October 2013	As notified
Surface Water Suitability		
Environment Agency - Head Office	October 2013	As notified
BGS Groundwater Flooding Susceptibility		
British Geological Survey - National Geoscience Information Service	May 2013	Annually

Data Currency

Waste	Version	Update Cycle
BGS Recorded Landfill Sites		
British Geological Survey - National Geoscience Information Service	June 1996	Not Applicable
Historical Landfill Sites		
Environment Agency - Head Office	August 2016	Quarterly
Integrated Pollution Control Registered Waste Sites		
Environment Agency - Anglian Region	October 2008	Not Applicable
Environment Agency - Southern Region	October 2008	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries)		
Environment Agency - Anglian Region - Eastern Area	August 2016	Quarterly
Environment Agency - Southern Region - Kent Area	August 2016	Quarterly
Environment Agency - Southern Region - Kent and East Sussex	August 2016	Quarterly
Licensed Waste Management Facilities (Locations)		
Environment Agency - Anglian Region - Eastern Area	October 2016	Quarterly
Environment Agency - Southern Region - Kent Area	October 2016	Quarterly
Environment Agency - Southern Region - Kent and East Sussex	October 2016	Quarterly
Local Authority Landfill Coverage		
Gravesham Borough Council	May 2000	Not Applicable
Kent County Council - Waste Management Group	May 2000	Not Applicable
Medway Council - Environmental Protection Department	May 2000	Not Applicable
Thurrock Borough Council - Environmental Health Department	May 2000	Not Applicable
Local Authority Recorded Landfill Sites		
Gravesham Borough Council	May 2000	Not Applicable
Kent County Council - Waste Management Group	May 2000	Not Applicable
Medway Council - Environmental Protection Department	May 2000	Not Applicable
Thurrock Borough Council - Environmental Health Department	May 2000	Not Applicable
Potentially Infilled Land (Non-Water)		
Landmark Information Group Limited	December 1999	Not Applicable
Potentially Infilled Land (Water)		
Landmark Information Group Limited	December 1999	Not Applicable
Registered Landfill Sites		
Environment Agency - Anglian Region - Eastern Area	March 2003	Not Applicable
Environment Agency - Southern Region - Kent Area	March 2003	Not Applicable
Registered Waste Transfer Sites		
Environment Agency - Anglian Region - Eastern Area	March 2003	Not Applicable
Environment Agency - Southern Region - Kent Area	March 2003	Not Applicable
Registered Waste Treatment or Disposal Sites		
Environment Agency - Anglian Region - Eastern Area	March 2003	Not Applicable
Environment Agency - Southern Region - Kent Area	March 2003	Not Applicable

Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH)		
Health and Safety Executive	July 2016	Bi-Annually
Explosive Sites		
Health and Safety Executive	September 2016	Bi-Annually
Notification of Installations Handling Hazardous Substances (NIHHS)		
Health and Safety Executive	November 2000	Not Applicable
Planning Hazardous Substance Enforcements		
Thurrock Borough Council - Development Control	December 2015	Annual Rolling Update
Medway Council	February 2016	Annual Rolling Update
London Port Health Authority - Environmental Services	January 2008	Annual Rolling Update
Kent County Council	January 2016	Annual Rolling Update
Gravesham Borough Council	October 2015	Annual Rolling Update
Planning Hazardous Substance Consents		
Thurrock Borough Council - Development Control	December 2015	Annual Rolling Update
Medway Council	February 2016	Annual Rolling Update
London Port Health Authority - Environmental Services	January 2008	Annual Rolling Update
Kent County Council	January 2016	Annual Rolling Update
Gravesham Borough Council	October 2015	Annual Rolling Update

Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	January 2009	Not Applicable
BGS Estimated Soil Chemistry British Geological Survey - National Geoscience Information Service	October 2015	As notified
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	October 2016	Bi-Annually
BGS Urban Soil Chemistry British Geological Survey - National Geoscience Information Service	October 2015	As notified
BGS Urban Soil Chemistry Averages British Geological Survey - National Geoscience Information Service	October 2015	As notified
Brine Compensation Area Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011	Not Applicable
Coal Mining Affected Areas The Coal Authority - Property Searches	March 2014	As notified
Mining Instability Ove Arup & Partners	October 2000	Not Applicable
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	July 2011	As notified
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	July 2011	As notified

Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	October 2016	Quarterly
Fuel Station Entries Catalist Ltd - Experian	July 2016	Quarterly
Gas Pipelines National Grid	July 2014	Quarterly
Points of Interest - Commercial Services PointX	September 2016	Quarterly
Points of Interest - Education and Health PointX	September 2016	Quarterly
Points of Interest - Manufacturing and Production PointX	September 2016	Quarterly
Points of Interest - Public Infrastructure PointX	September 2016	Quarterly
Points of Interest - Recreational and Environmental PointX	September 2016	Quarterly
Underground Electrical Cables National Grid	January 2016	Bi-Annually

Sensitive Land Use	Version	Update Cycle
Ancient Woodland		
Natural England	August 2016	Bi-Annually
Areas of Adopted Green Belt		
Gravesham Borough Council	November 2016	As notified
Medway Council	November 2016	As notified
Thurrock Borough Council - Development Control	November 2016	As notified
Areas of Unadopted Green Belt		
Gravesham Borough Council	November 2016	As notified
Medway Council	November 2016	As notified
Thurrock Borough Council - Development Control	November 2016	As notified
Areas of Outstanding Natural Beauty		
Natural England	September 2016	Bi-Annually
Environmentally Sensitive Areas		
Natural England	September 2016	Annually
Forest Parks		
Forestry Commission	April 1997	Not Applicable
Local Nature Reserves		
Natural England	September 2016	Bi-Annually
Marine Nature Reserves		
Natural England	September 2016	Bi-Annually
National Nature Reserves		
Natural England	September 2016	Bi-Annually
National Parks		
Natural England	August 2016	Bi-Annually
Nitrate Sensitive Areas		
Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	April 2016	Not Applicable
Nitrate Vulnerable Zones		
Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	October 2015	Annually
Ramsar Sites		
Natural England	April 2016	Bi-Annually
Sites of Special Scientific Interest		
Natural England	April 2016	Bi-Annually
Special Areas of Conservation		
Natural England	September 2016	Bi-Annually
Special Protection Areas		
Natural England	September 2016	Bi-Annually
World Heritage Sites		
English Heritage - National Monument Record Centre	September 2015	Bi-Annually

Data Suppliers

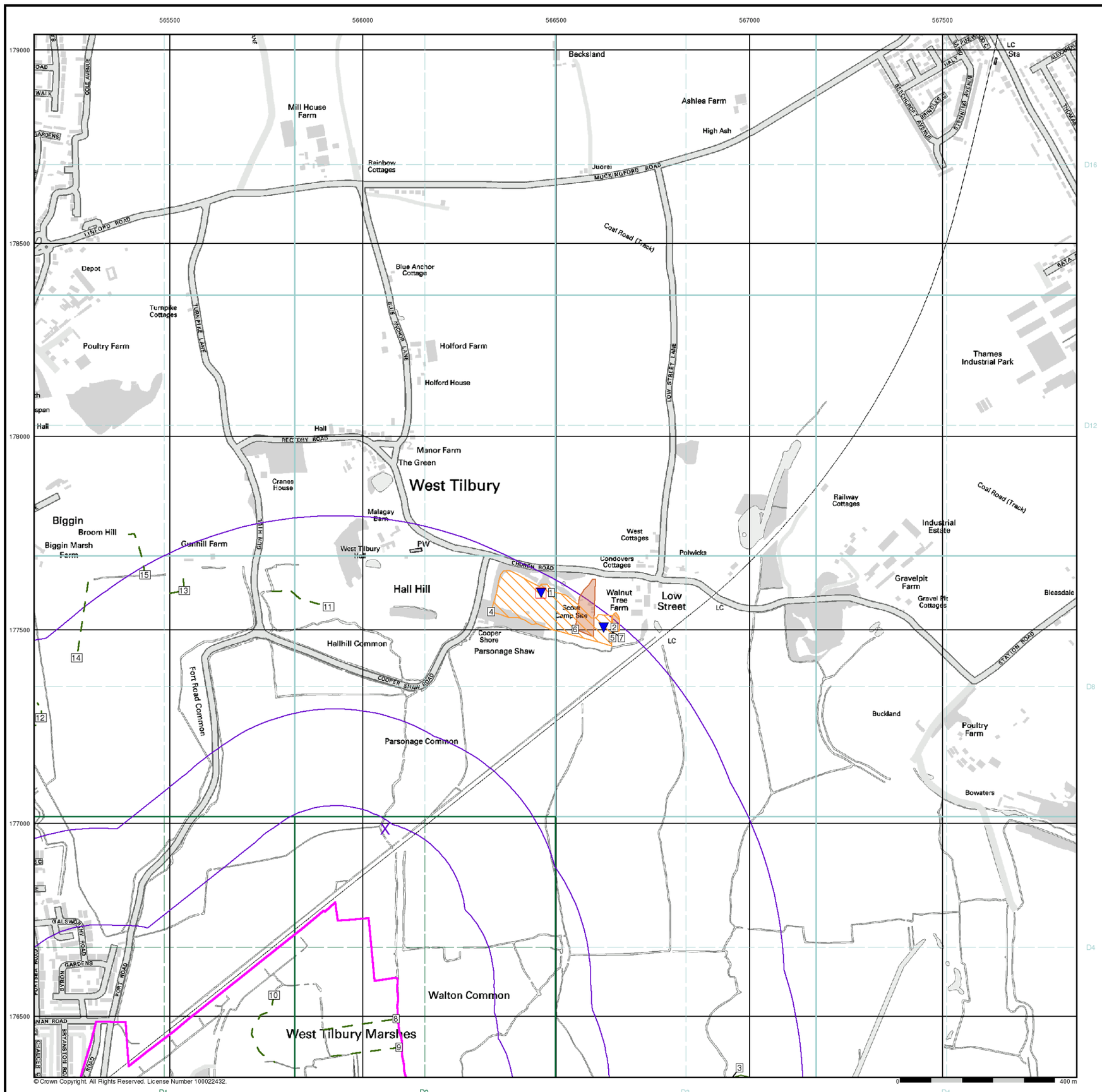
A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo
Ordnance Survey	
Environment Agency	
Scottish Environment Protection Agency	
The Coal Authority	
British Geological Survey	
Centre for Ecology and Hydrology	
Natural Resources Wales	
Scottish Natural Heritage	
Natural England	
Public Health England	
Ove Arup	
Peter Brett Associates	

Useful Contacts

Contact	Name and Address	Contact Details
2	**British Geological Survey - Enquiry Service** British Geological Survey, Kingsley Dunham Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
3	**Environment Agency - National Customer Contact Centre (NCCC)** PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
4	**Thurrock Borough Council - Environmental Health Department** Civic Offices, New Road, Grays, Essex, RM17 6SL	Telephone: 01375 390000 Fax: 01375 652359 Website: www.thurrock.gov.uk
5	**PointX** 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Website: www.pointx.co.uk
6	**Thurrock Borough Council - Development Control** Civic Offices, New Road, Grays, Essex, RM17 6SL	Telephone: 01375 390000 Fax: 01375 652359 Website: www.thurrock.gov.uk
7	**Natural England** County Hall, Spetchley Road, Worcester, WR5 2NP	Telephone: 0300 060 3900 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.uk
8	**Environment Agency - Head Office** Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol, Avon, BS32 4UD	Telephone: 01454 624400 Fax: 01454 624409
-	**Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards** Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	**Landmark Information Group Limited** Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

Please note that the Environment Agency / Natural Resources Wales / SEPA have a charging policy in place for enquiries.



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Historical Land Use Information (1:10,000)

General

Specified Site | Specified Buffer(s) | Bearing Reference Point | Map ID

Several of Type at Location

Potentially Contaminative Industrial Uses (Past Land Uses - Mining)

	Point	Line	Polygon
Air Shafts	◆	—	▨
Disturbed Ground	◆	—	▨
General Quarrying	◆	—	▨
Heap, unknown constituents	◆	—	▨
Mineral Railway	◆	—	▨
Mining and Quarrying General	◆	—	▨
Mining of Coal & Lignite	◆	—	▨
Quarrying of Sand and Clay, Operation of Sand and Gravel Pits	◆	—	▨

Historical Land Use

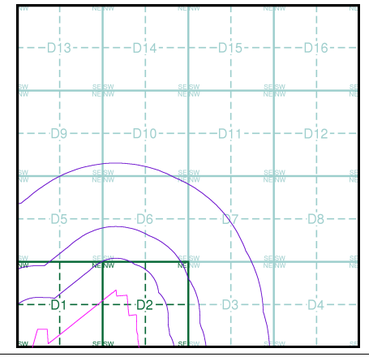
	Point	Line	Polygon
Potentially Infilled Land (Non-Water)	●	- - -	■
Potentially Infilled Land (Water)	●	- - -	■
Former Marsh	✠		

Mining Data

Potential Mining Area

BGS Recorded Mineral Site

Mining and Ground Stability - Slice D



Order Details

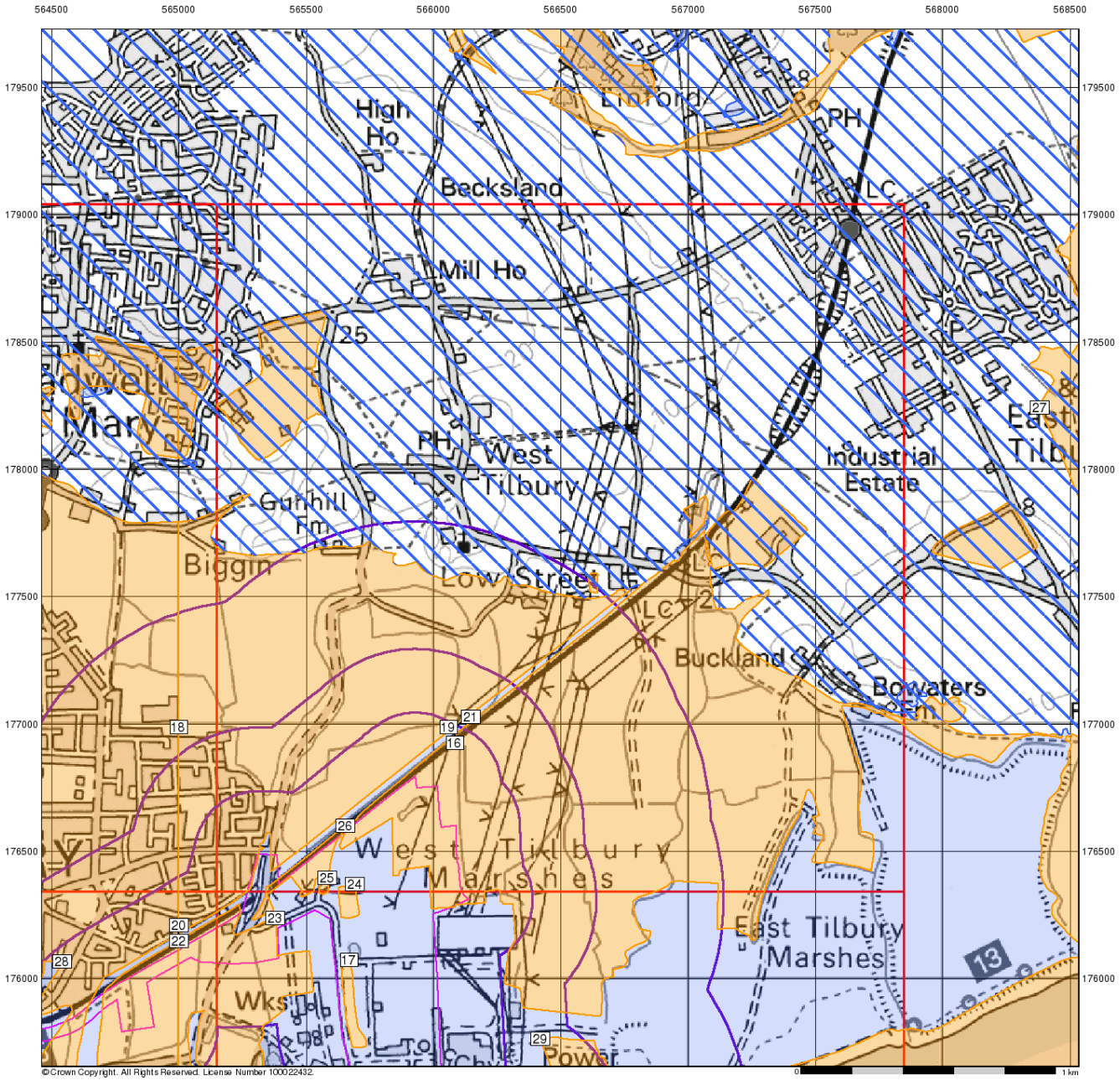
Order Number:	107251247_1_1
Customer Ref:	5153187- 211 Tilbury Power Station
National Grid Reference:	566060, 176990
Slice:	D
Site Area (Ha):	81.8
Search Buffer (m):	1000

Site Details

Gravesend

Landmark® INFORMATION GROUP

Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



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Ground Stability Data (1:50,000)

General

Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

Potential for Compressible Ground Stability Hazards

High | Low | Moderate | Very Low

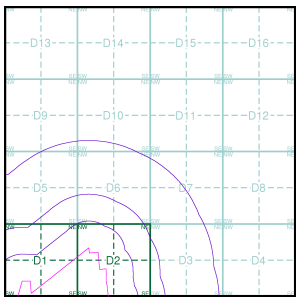
Potential for Collapsible Ground Stability Hazards

High | Low | Moderate | Very Low

Brine Pumping and Salt Mining

	Point	Polygon
Brine Pumping Related Feature	▲	▨
Salt Mining Related Feature	▲	▨

Mining and Ground Stability - Slice D



Order Details

Order Number:	107251247_1_1
Customer Ref:	5153187- 211 Tilbury Power Station
National Grid Reference:	566060, 176990
Slice:	D
Site Area (Ha):	81.8
Search Buffer (m):	1000

Site Details

Gravesend

Landmark® INFORMATION GROUP

Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk

Envirocheck®

LANDMARK INFORMATION GROUP®

Ground Stability Data (1:50,000)

General

Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

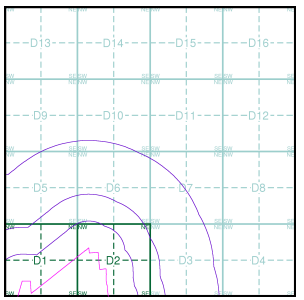
Potential for Landslide Ground Stability Hazards

High | Low | Moderate | Very Low

Potential for Ground Dissolution Stability Hazards

High | Low | Moderate | Very Low

Mining and Ground Stability - Slice D



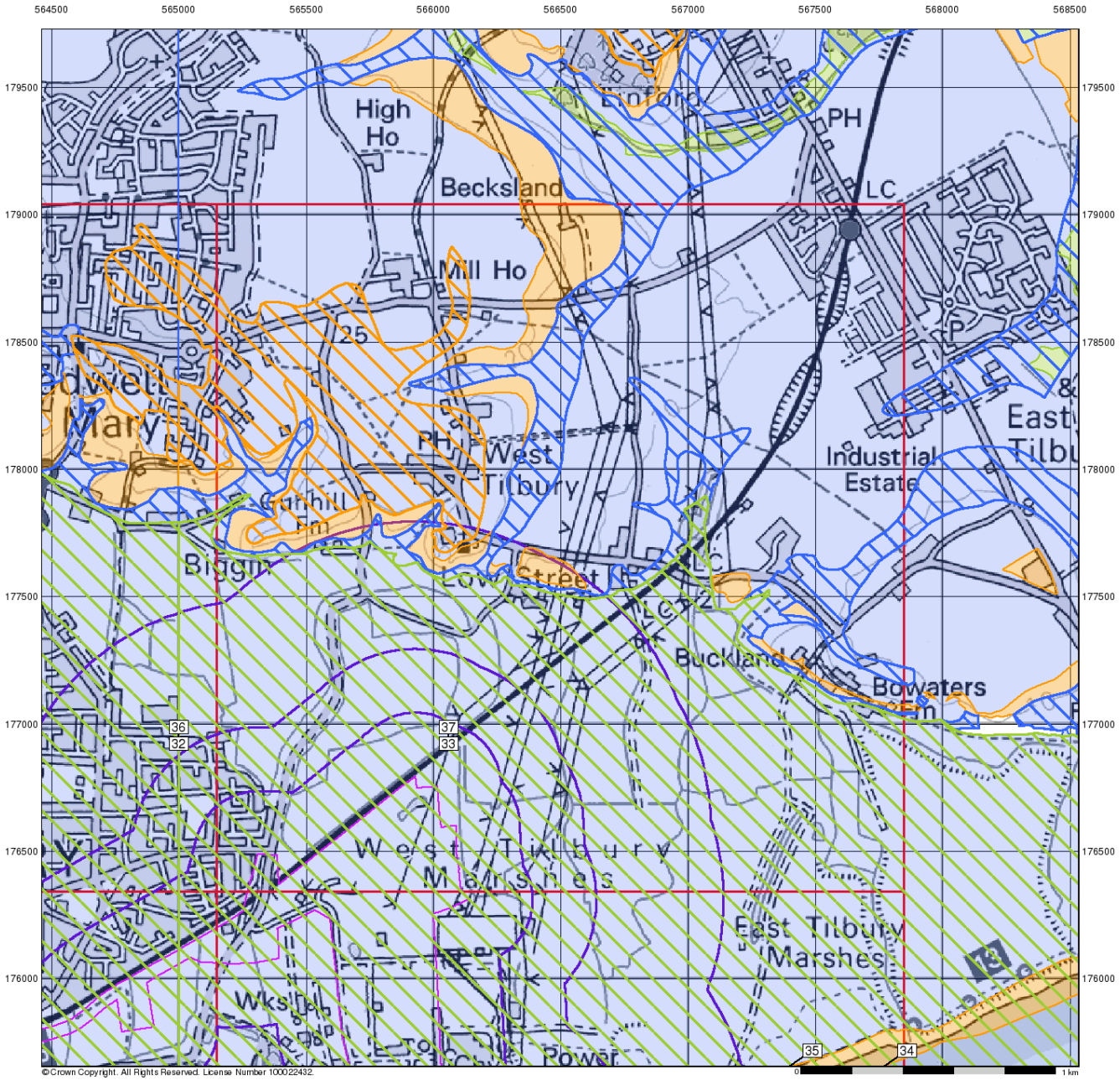
Order Details

Order Number:	107251247_1_1
Customer Ref:	5153187- 211 Tilbury Power Station
National Grid Reference:	566060, 176990
Slice:	D
Site Area (Ha):	81.8
Search Buffer (m):	1000

Site Details

Gravesend

Landmark® INFORMATION GROUP
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



Envirocheck®

LANDMARK INFORMATION GROUP®

Ground Stability Data (1:50,000)

General

Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

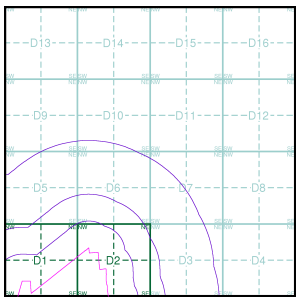
Potential for Running Sand Ground Stability Hazards

High | Low | Moderate | Very Low

Potential for Shrinking or Swelling Clay Ground Stability Hazards

High | Low | Moderate | Very Low

Mining and Ground Stability - Slice D



Order Details

Order Number:	107251247_1_1
Customer Ref:	5153187- 211 Tilbury Power Station
National Grid Reference:	566060, 176990
Slice:	D
Site Area (Ha):	81.8
Search Buffer (m):	1000

Site Details

Gravesend

Landmark® INFORMATION GROUP

Tel: 0844 844 9952
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Envirocheck® Report:

Mining and Ground Stability Datasheet

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Site Details:

Gravesend

Client Details:

Ms T Radford
Atkins Ltd
The Wells
3-13 Church Street
Epsom
Surrey
KT17 4PF

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Contents

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Contents

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m
Mining and Natural Cavities Data					
BGS Recorded Mineral Sites	pg 1				3
Coal Mining Affected Areas			n/a	n/a	n/a
Man Made Mining Cavities					
Mining Instability			n/a	n/a	n/a
Natural Cavities					
Non Coal Mining Areas of Great Britain				n/a	n/a
Potential Mining Areas					
Historical Land Use Information (1:2,500)					
Extractive Industries or Potential Excavations from 1855-1909 (100m)				n/a	n/a
Extractive Industries or Potential Excavations from 1893-1915 (100m)				n/a	n/a
Extractive Industries or Potential Excavations from 1906-1937 (100m)				n/a	n/a
Extractive Industries or Potential Excavations from 1924-1949 (100m)				n/a	n/a
Extractive Industries or Potential Excavations from 1950-1980 (100m)				n/a	n/a
Subterranean Features (100m)				n/a	n/a
Historical Land Use Information (1:10,000)					
Air Shafts					
Disturbed Ground					
General Quarrying					
Heap, unknown constituents	pg 2				1
Mineral Railway					
Mining & quarrying general					
Mining of coal & lignite					
Quarrying of sand & clay, operation of sand & gravel pits	pg 2				2
Former Marshes					
Potentially Infilled Land (Non-Water)	pg 2				2
Potentially Infilled Land (Water)	pg 2	3			5

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Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m
Ground Stability Data (1:50,000)					
Brine Compensation Area			n/a	n/a	n/a
Brine Pumping Related Features					
Brine Subsidence Solution Area					
Potential for Collapsible Ground Stability Hazards	pg 3	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 3	Yes	Yes	n/a	n/a
Potential for Ground Dissolution Stability Hazards	pg 3	Yes		n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 3	Yes		n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 4	Yes		n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 4	Yes		n/a	n/a
Salt Mining Related Features					
Subsidence Insurance Claims	pg 4		1	n/a	n/a
Subsidence Investigations	pg 4		2	n/a	n/a
Motion Map Data (1:2,500)					
Motion Map (100m)	pg 5	1	27	n/a	n/a

Report Version v50.0

Mining and Natural Cavities Data

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	**BGS Recorded Mineral Sites** Site Name: Condovers Pit Location: , West Tilbury, Grays, Essex Source: British Geological Survey, National Geoscience Information Service Reference: 18570 Type: Opencast **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Quaternary Geology: Taplow Gravel Formation (Taplow Terrace) Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	D6NE (NE)	957	1	566460 177600
1	**BGS Recorded Mineral Sites** Site Name: Condovers Pit Location: , West Tilbury, Grays, Essex Source: British Geological Survey, National Geoscience Information Service Reference: 18570 Type: Opencast **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Thanetian Geology: Thanet Formation Commodity: Sand Positional Accuracy: Located by supplier to within 10m	D6NE (NE)	957	1	566460 177600
2	**BGS Recorded Mineral Sites** Site Name: Low Street Gravel Pit Location: , Low Street, Chadwell St Mary, Purfleet, Essex Source: British Geological Survey, National Geoscience Information Service Reference: 182129 Type: Opencast **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Quaternary Geology: Taplow Gravel Formation Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	D7NW (NE)	970	1	566622 177510
	Coal Mining Affected Areas In an area which may not be affected by coal mining				
	Non Coal Mining Areas of Great Britain No Hazard				

Historical Land Use Information (1:10,000)

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
3	**Heap, unknown constituents** Use: Not Supplied Date of Mapping: 1991	(SE)	575	-	566794 176292
4	**Quarrying of sand & clay, operation of sand & gravel pits** Use: Not Supplied Date of Mapping: 1873 - 1898	D6NE (NE)	853	-	566330 177547
5	**Quarrying of sand & clay, operation of sand & gravel pits** Use: Not Supplied Date of Mapping: 1923 - 1961	D7NW (NE)	973	-	566645 177495
6	**Potentially Infilled Land (Non-Water)** Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	D7NW (NE)	919	-	566549 177501
7	**Potentially Infilled Land (Non-Water)** Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	D7NW (NE)	973	-	566645 177495
8	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1961	D2SW (S)	0	-	566085 176493
9	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1961	D2SW (S)	0	-	566093 176421
10	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1961	D1SE (SW)	0	-	565769 176554
11	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1961	D6NW (N)	765	-	565910 177559
12	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1961	D5SW (W)	781	-	565166 177272
13	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1961	D5NE (NW)	896	-	565537 177601
14	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1961	D5NW (NW)	911	-	565259 177427
15	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1961	D5NW (NW)	980	-	565436 177642

Ground Stability Data (1:50,000)

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Brine Compensation Area The site does not fall within the brine compensation area.				
	Brine Subsidence Solution Area The site does not fall within the brine subsidence solution area.				
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	D2NW (E)	0	1	566058 176986
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	(W)	0	1	565000 176986
16	**Potential for Compressible Ground Stability Hazards** Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	D2NW (SE)	0	1	566083 176955
17	**Potential for Compressible Ground Stability Hazards** Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	(SW)	0	1	565667 176072
18	**Potential for Compressible Ground Stability Hazards** Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	(W)	0	1	565000 176986
19	**Potential for Compressible Ground Stability Hazards** Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	D2NW (E)	0	1	566058 176986
20	**Potential for Compressible Ground Stability Hazards** Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	(SW)	0	1	565000 176174
21	**Potential for Compressible Ground Stability Hazards** Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	D2NW (SE)	0	1	566066 176975
22	**Potential for Compressible Ground Stability Hazards** Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	(SW)	0	1	565000 176148
23	**Potential for Compressible Ground Stability Hazards** Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	(SW)	0	1	565378 176236
24	**Potential for Compressible Ground Stability Hazards** Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	D1SE (SW)	0	1	565691 176371
25	**Potential for Compressible Ground Stability Hazards** Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	D1SE (SW)	0	1	565583 176395
26	**Potential for Compressible Ground Stability Hazards** Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	D1SE (SW)	0	1	565653 176598
27	**Potential for Compressible Ground Stability Hazards** Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	(S)	0	1	566491 175496
28	**Potential for Compressible Ground Stability Hazards** Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	(SW)	126	1	564540 176066
29	**Potential for Compressible Ground Stability Hazards** Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	(S)	214	1	566417 175762
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	(W)	0	1	565000 176986
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	D2NW (E)	0	1	566058 176986
30	**Potential for Landslide Ground Stability Hazards** Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	(W)	0	1	565000 176986

Ground Stability Data (1:50,000)

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
31	**Potential for Landslide Ground Stability Hazards** Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	D2NW (E)	0	1	566058 176986
32	**Potential for Running Sand Ground Stability Hazards** Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	(W)	0	1	565000 176986
33	**Potential for Running Sand Ground Stability Hazards** Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	D2NW (E)	0	1	566058 176986
34	**Potential for Running Sand Ground Stability Hazards** Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	(S)	0	1	566318 175373
35	**Potential for Running Sand Ground Stability Hazards** Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	(S)	0	1	566576 175507
36	**Potential for Shrinking or Swelling Clay Ground Stability Hazards** Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	(W)	0	1	565000 176986
37	**Potential for Shrinking or Swelling Clay Ground Stability Hazards** Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	D2NW (E)	0	1	566058 176986
	Subsidence Investigations Site Investigation Date: 18th October 2012 Root Survey: No CCTV Drain Survey: No Depth of Foundation Footing: Not Supplied Soil Classification: Not Supplied			-	
	Subsidence Investigations Site Investigation Date: 18th February 2013 Root Survey: No CCTV Drain Survey: No Depth of Foundation Footing: Not Supplied Soil Classification: Not Supplied			-	
	Subsidence Insurance Claims Case Date: 4th February 2013 Movement Trend Indication: Not Supplied Damage Classification: Not Supplied			-	

Motion Map Data (1:2,500)

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
38	**Motion Map** Average Velocity Gradient (mmyear): 0.0	D1SE (SW)	0	-	565714 176394
39	**Motion Map** Average Velocity Gradient (mmyear): -6.3	D1SW (SW)	3	-	565332 176489
39	**Motion Map** Average Velocity Gradient (mmyear): -6.3	D1SW (SW)	4	-	565329 176489
39	**Motion Map** Average Velocity Gradient (mmyear): -6.2	D1SW (SW)	7	-	565332 176493
40	**Motion Map** Average Velocity Gradient (mmyear): 0.2	D1SW (SW)	10	-	565360 176496
40	**Motion Map** Average Velocity Gradient (mmyear): 0.2	D1SW (SW)	14	-	565360 176500
41	**Motion Map** Average Velocity Gradient (mmyear): -2.2	D1SW (SW)	22	-	565339 176508
41	**Motion Map** Average Velocity Gradient (mmyear): -2.6	D1SW (SW)	27	-	565338 176512
41	**Motion Map** Average Velocity Gradient (mmyear): -2.9	D1SW (SW)	30	-	565340 176516
42	**Motion Map** Average Velocity Gradient (mmyear): -1.6	D1SW (SW)	26	-	565270 176436
42	**Motion Map** Average Velocity Gradient (mmyear): -1.8	D1SW (SW)	26	-	565269 176432
43	**Motion Map** Average Velocity Gradient (mmyear): -1.4	D1SW (SW)	26	-	565271 176440
43	**Motion Map** Average Velocity Gradient (mmyear): -1.2	D1SW (SW)	30	-	565266 176437
43	**Motion Map** Average Velocity Gradient (mmyear): -1.4	D1SW (SW)	30	-	565265 176433
43	**Motion Map** Average Velocity Gradient (mmyear): -1.3	D1SW (SW)	30	-	565268 176441
44	**Motion Map** Average Velocity Gradient (mmyear): -1.5	D1SW (SW)	32	-	565247 176376
44	**Motion Map** Average Velocity Gradient (mmyear): -1.5	D1SW (SW)	36	-	565243 176377
44	**Motion Map** Average Velocity Gradient (mmyear): -1.6	D1SW (SW)	37	-	565240 176373
45	**Motion Map** Average Velocity Gradient (mmyear): -4.2	D1SW (SW)	47	-	565244 176421
45	**Motion Map** Average Velocity Gradient (mmyear): -4.3	D1SW (SW)	49	-	565243 176425

Motion Map Data (1:2,500)

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
46	**Motion Map** Average Velocity Gradient (mmyear): -4.7	D1SW (SW)	62	-	565293 176545
47	**Motion Map** Average Velocity Gradient (mmyear): -1.2	D1SW (SW)	73	-	565245 176518
47	**Motion Map** Average Velocity Gradient (mmyear): -1.0	D1SW (SW)	75	-	565245 176522
47	**Motion Map** Average Velocity Gradient (mmyear): -1.3	D1SW (SW)	76	-	565242 176519
47	**Motion Map** Average Velocity Gradient (mmyear): -1.0	D1SW (SW)	78	-	565242 176523
48	**Motion Map** Average Velocity Gradient (mmyear): -3.0	D1SW (SW)	94	-	565345 176579
48	**Motion Map** Average Velocity Gradient (mmyear): -2.9	D1SW (SW)	98	-	565345 176584
49	**Motion Map** Average Velocity Gradient (mmyear): -3.2	D1SW (SW)	97	-	565188 176408