

3.0 Conclusions

3.1 Conceptual Model

The following sub-sections present a non-exhaustive list of the possible sources, pathways and receptors that exist within the site conceptual model for the site.

Potential source-pathway-receptor linkages that may arise are discussed in the following section, the Qualitative Risk Assessment.

A Diagrammatic Conceptual Model is provided in Appendix A3.

3.1.1 Potential Sources

Potential Source (S1): Made-ground Soils On Site

Low Likelihood due to historical evidence of no developments on the site.

The nature and type of contamination may include, amongst others; ash and fill, hydrocarbons (e.g. fuel oils), heavy metals, herbicides / pesticides and asbestos.

Potential Source (S2): Made-ground Soils Off Site

Off-site soils have been exposed to patterns of development and demolition so there is potential for contamination to be present in made ground around the site. Taking into account the close proximity of the railway to the west of the site.

Potential contaminants could arise due to geological origin, construction activities, atmospheric deposition and land management. The nature and type of general contamination may include, amongst others; ash and fill, hydrocarbons (e.g. fuel oils), heavy metals and asbestos.

Potential Source (S3): Natural Soils both On and Off Site

Regionally elevated levels of metals may be present within the shallow soils, however the superficial and bedrock deposits beneath the site and within the immediate surrounding area are not considered to present significant sources of natural contamination.

Potential Source (S4): Ground Gas Generating Sources

May be present due to made ground deposits surrounding the site from historical developments and land use.

There are no records of organic rich drift deposits (e.g. peat) or coal measures.

Potential Source (S5): Geological Deposits with Potential to Generate Radon

Both the Radon Atlas for England and Wales, and the Envirocheck Report confirm that the site is in an intermediate probability radon area, as between 1 and 3% of homes are above the action level, however no radon protective measures are deemed necessary in the construction of new dwellings or extensions.

Potential Source (S6): Unexploded Ordnance

Risk mapping for UXOs has placed the site within a Low risk area. The historical maps for the site and surrounding area show no bomb damage post WWII and there were no primary targets located within 1000m of the site.

It should be taken into consideration that the site and surrounding area has undergone several stages of redevelopment since this time, lowering the risk of UXO on site.

Potential Source (S7): Mining Workings

No mining works are considered to affect the site.

3.1.2 Potential Pathways

Potential Pathway (P1): Direct Contact, Ingestion and Inhalation (dust and vapours)

May occur where the end user is exposed to; solid, dust or volatile components of made-ground soils on site.

Potential Pathway (P2): Vertical Migration

May occur within the made-ground deposits on-site both upwards, due to processes including; capillary action, burrowing animals inducing soil mixing, and downwards into the natural deposits due to processes including; infiltration and burrowing animals. Includes ground gas migration.

Soils of negligible leaching potential are found onsite.

Potential Pathway (P3): Horizontal Migration

May occur within the made-ground or natural deposits due to processes including; the influence of perched or natural groundwater flow patterns and natural or man-made high permeability zones, e.g. sand lenses or drainage runs or pores/voids within natural and made-ground soils for ground gases.

Potential Pathway (P4): Collapse

Unlikely on this site.

3.1.3 Potential Receptors

Potential Receptor (R1): End Users

Residents, visitors, site maintenance staff and the general public.

Potential Receptor (R2): Controlled Waters (Groundwater)

Corresponding with the underlying solid geology, the site is underlain by a Secondary A Aquifer.

The site is not situated within a Source Protection Zone (SPZ).

There is one groundwater abstraction within 1000m of the site, which is Mill Farm borehole located 917m north east of the site.

Potential Receptor (R3): Controlled Waters (Surface Waters)

The nearest surface water feature is Higgin brook (Tertiary River) located on site towards the eastern boundary.

There is one surface water abstractions within 1000m of the site located 446m south east which is a field drain located in Lyndhurst, Longridge.

There are no potable water abstractions within 1000m of the site.

Potential Receptor (R4): Construction Workers

Whilst unlikely, during the development of the site, construction workers may come into contact with any contamination that is on site. However, wearing the correct personal protective equipment will reduce the risk.

Potential Receptor (R5): Construction Materials

Buried concrete and water supply pipes.

Potential Receptor (R6): Local Ecology

Protected species and local habitats; e.g. hedgerow, grassland and water.

3.2 Qualitative Risk Assessment

The qualitative risk assessment details both the source-pathway-receptor linkages and associate level of risk that have been identified for the site.

The rationale for the qualitative risk assessment is described within Appendix A4 and a tabulated summary provided in Table A4.1.

The term 'risk' in this instance refers to the risk that the source, pathway, receptor linkage for a given source of contamination is complete. Unless specifically noted it does not necessarily refer to an immediate risk to individuals or features present on the site from potential contaminants and is intended to be used as a tool to assess the necessity of further investigation.

3.2.1 End User

Assessment of Risk to End Users from Made-Ground Soils On-Site	
Potential Source	S1: Made-ground soils on site
<i>Likelihood of Occurrence</i>	<i>Low Likelihood, due to no historical evidence of development on the site.</i>
Potential Pathway	P1: Direct contact, ingestion and inhalation
<i>Details</i>	<i>Recreational grounds, landscaped areas and internal airspaces.</i>
Potential Receptor	R1: End users
<i>Consequence (Potential Severity)</i>	<i>Medium due to human health effects (chronic and acute) for a sensitive receptor (Residents, visitors, site management staff and general public).</i>
Risk	Moderate/Low
<i>Recommendation</i>	<i>Environmental sampling of site shallow soils to confirm quality and composition.</i>

Assessment of Risk to End Users from Made-Ground Soils Off-Site	
Potential Source	S2: Made-ground soils off site
<i>Likelihood of Occurrence</i>	<i>Likely, due to historical evidence of development and demolition off-site, and given the age of the developments, it is possible that some asbestos may have been present on the site, but it should only remain if demolition activity was poorly managed.</i> <i>Potential contaminants could arise due to geological origin, construction activities, atmospheric deposition and land management. The nature and type of general contamination may include, amongst others; ash and fill, hydrocarbons (e.g. fuel oils), heavy metals and asbestos.</i>
Potential Pathway	P3 & P1: Horizontal migration then direct contact, ingestion and/or inhalation
<i>Details</i>	<i>Recreational grounds, landscaped areas and internal airspaces.</i>
Potential Receptor	R1: End users
<i>Consequence (Potential Severity)</i>	<i>Medium due to human health effects (chronic and acute) for a sensitive receptor (Residents, visitors, site management staff and general public).</i>
Risk	Moderate
<i>Recommendation</i>	<i>Environmental sampling of site shallow soils to confirm quality.</i>

Assessment of Risk to End Users from Natural Soils On and Off Site	
Potential Source	S3: Natural soils on and off site
<i>Likelihood of Occurrence</i>	<i>Low likelihood, due to the nature of the site geology but accounting for contamination of natural soils by on-site and surrounding sources.</i>
Potential Pathway	P1 & P3: Direct contact, ingestion and inhalation and horizontal migration
<i>Details</i>	<i>Either horizontal migration from off site or on-site presence; private gardens, home-grown produce, landscaped areas and internal airspaces.</i>
Potential Receptor	R1: End users
<i>Consequence (Potential Severity)</i>	<i>Medium due to human health effects (chronic and acute) for a sensitive receptor (Residents, visitors, site management staff and general public).</i>
Risk	Moderate/Low
<i>Recommendation</i>	<i>Environmental sampling of site natural soils to confirm quality.</i>

Assessment of Risk to End Users from Ground Gas Generating Sources	
Potential Source	S4: Ground gas generation sources (e.g. landfills or made-ground)
<i>Likelihood of Occurrence</i>	<i>Low Likelihood, however taking into account made ground deposits across the site from historical developments and land use. There are four BGS Recorded Landfill within 1000m of the site boundary. There are no historical landfill recorded within 1000m of the site. There are two recorded Registered Landfill site within 1000m of the site. There are no records of organic rich drift deposits (e.g. peat) or coal measures.</i>
Potential Pathway	P2 & P3: Vertical and horizontal migration
<i>Details</i>	<i>Direct gassing of on-site soils or migration along natural low permeability horizons within superficial or bedrock deposits.</i>
Potential Receptor	R1: End users
<i>Consequence (Potential Severity)</i>	<i>Severe due to human health effects (explosive, toxic and asphyxiate gases) for all receptors.</i>
Risk	High/Moderate
<i>Recommendation</i>	<i>Ground gas monitoring</i>

Assessment of Risk to End Users from Radon	
Potential Source	S5: Geological deposits with potential to generate radon
<i>Likelihood of Occurrence</i>	<p><i>Unlikely as both the Radon Atlas for England and Wales, and the Envirocheck Report confirm that the site is in an intermediate probability radon area, as between 1 and 3% of homes are above the action level, however no radon protective measures are deemed necessary in the construction of new dwellings or extensions.</i></p> <p><i>No radon protective measures are necessary in the construction of new dwellings or extensions.</i></p>
Potential Pathway	P2 & P3: Vertical and horizontal migration
<i>Details</i>	<i>Direct gassing of on-site soils or migration along natural low permeability horizons within superficial or bedrock deposits.</i>
Potential Receptor	R1: End users
<i>Consequence (Potential Severity)</i>	<i>Medium due to human health effects (chronic and acute) for a sensitive receptor (Residents, visitors, site management staff and general public).</i>
Risk	Low
<i>Recommendation</i>	<i>No action required</i>

Assessment of Risk to End Users from Unexploded Ordnance (UXO)	
Potential Source	S6: Unexploded Ordnance
<i>Likelihood of Occurrence</i>	<p><i>Unlikely as the historical maps for the sites show no primary targets within close proximity of the site and no ruins within close proximity of the site.</i></p> <p><i>The surrounding area shows no bomb damage post WWII, taking into consideration that the site and surrounding area has undergone several stages of redevelopment since this time, lowering the risk of UXO on site, as the likelihood of the bombs already being exploded would increase with this kind of activity.</i></p>
Potential Pathway	P1: Direct contact
<i>Details</i>	<i>All groundwork activities.</i>
Potential Receptor	R1: End Users
<i>Consequence (Potential Severity)</i>	<i>Severe due to human health effects (explosive) for receptor.</i>

Risk	Moderate / Low
<i>Recommendation</i>	<i>No Detailed UXO Report required for the site.</i>

3.2.2 Groundwater

Assessment of Risk to Groundwater from Made-Ground Soils On-Site	
Potential Source	S1: Made-ground soils on site
<i>Likelihood of Occurrence</i>	<i>Likely, due to historical evidence of development on both sites.</i>
Potential Pathway	P2: Vertical migration
<i>Details</i>	<i>Leaching or percolation of potential contaminants.</i>
Potential Receptor	R2: Controlled waters (Groundwater)
<i>Consequence (Potential Severity)</i>	<i>Medium as the site is underlain by a Secondary A Aquifer. There is one groundwater abstraction within 1000m of the site, which is Mill Farm borehole located 917m north east of the site. The site is not situated within a Source Protection Zone (SPZ).</i>
Risk	Moderate
<i>Recommendation</i>	<i>Environmental sampling of site shallow soils and groundwater to confirm quality.</i>

3.2.3 Surface Water

Assessment of Risk to Surface Water from Made-Ground Soils On-Site	
Potential Source	S1: Made-ground soils on site
<i>Likelihood of Occurrence</i>	<i>Low Likelihood, due to historical evidence of no development on the site. The nearest surface water feature is Higgin brook (Tertiary River) located on site towards the eastern boundary. There is one surface water abstractions within 1000m of the site located 446m south east which is a field drain located in Lyndhurst, Longridge.</i>
Potential Pathway	P3: Horizontal migration
<i>Details</i>	<i>Leaching or percolation of potential contaminants.</i>
Potential Receptor	R3: Controlled waters (Surface Waters)
<i>Consequence (Potential Severity)</i>	<i>Medium due to anticipated sensitivity/grade of the closest surface water feature.</i>
Risk	Moderate

<i>Recommendation</i>	<i>Environmental sampling of site shallow soils to confirm quality.</i>
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3.2.4 Construction Workers

Assessment of Risk to Construction Workers from Made-Ground & Natural Soils On and Off Site	
Potential Source	S1 & S2 & S3: Made-ground & natural soils on and off site
<i>Likelihood of Occurrence</i>	<p><i>Made Ground</i></p> <p><i>On-site: Low Likelihood as discussed previously.</i></p> <p><i>Off-site: Likely as discussed previously.</i></p> <p><i>Natural</i></p> <p><i>On-site: Unlikely as discussed previously.</i></p> <p><i>Off-site: Unlikely as discussed previously.</i></p>
Potential Pathway	P1: Direct contact, ingestion and inhalation
<i>Details</i>	<i>Groundwork and landscaping activities.</i>
Potential Receptor	R4: Construction workers
<i>Consequence (Potential Severity)</i>	<i>Minor due to correct use of personal protective equipment (PPE).</i>
Risk	Negligible
<i>Recommendation</i>	<i>Environmental sampling of site shallow soils and groundwater to confirm quality.</i>

Assessment of Risk to Construction Workers from Unexploded Ordnance (UXO)	
Potential Source	S6: Unexploded Ordnance
<i>Likelihood of Occurrence</i>	<i>Unlikely of being present on-site due to lack of primary targets within close proximity of the site and no ruins within close proximity of the site.</i>
Potential Pathway	P1: Direct contact
<i>Details</i>	<i>All groundwork activities.</i>
Potential Receptor	R4: End Users
<i>Consequence (Potential Severity)</i>	<i>Severe due to human health effects (explosive) for receptor.</i>
Risk	Moderate / Low
<i>Recommendation</i>	<i>No Detailed UXO Report required for this site.</i>

3.2.5 Construction Materials

Assessment of Risk to Construction Materials from Made-Ground Soils On Site	
Potential Source	S1: Made-ground soils on site
<i>Likelihood of Occurrence</i>	<i>Low Likelihood, due to no historical evidence of development the site.</i>
Potential Pathway	P1: Direct contact
<i>Details</i>	<i>Soil pore water chemistry inducing chemical degradation/fouling.</i>
Potential Receptor	R5: Construction materials
<i>Consequence (Potential Severity)</i>	<i>Mild due to reduced performance of construction materials and human health affects (water supply contamination).</i>
Risk	Low
<i>Recommendation</i>	<i>Environmental sampling of site shallow soils to confirm quality.</i>

3.2.6 Local Ecology

Assessment of Risk to Local Ecology from Made-Ground Soils On-Site	
Potential Source	S1: Made-ground soils on site
<i>Likelihood of Occurrence</i>	<i>Low Likelihood, due to the historic evidence of development on both sites, and industry within close proximity to the site boundary.</i>
Potential Pathway	P1 & P3: Direct contact, ingestion and inhalation & horizontal migration
<i>Details</i>	<i>Protected species within on-site and local habitats; e.g. woodland, hedgerow, grassland and water.</i>
Potential Receptor	R6: Local ecology
<i>Consequence (Potential Severity)</i>	<i>Minor (no known sensitive ecology on site).</i>
Risk	Negligible
<i>Recommendation</i>	<i>Advice of an ecologist obtained with respect to any requirements.</i>

3.2.7 Recommendations

The qualitative risk assessment determined an overall **Negligible to Moderate** level of risk from potential contaminants. The risk to the end user from ground gases is determined to be **High/Moderate**.

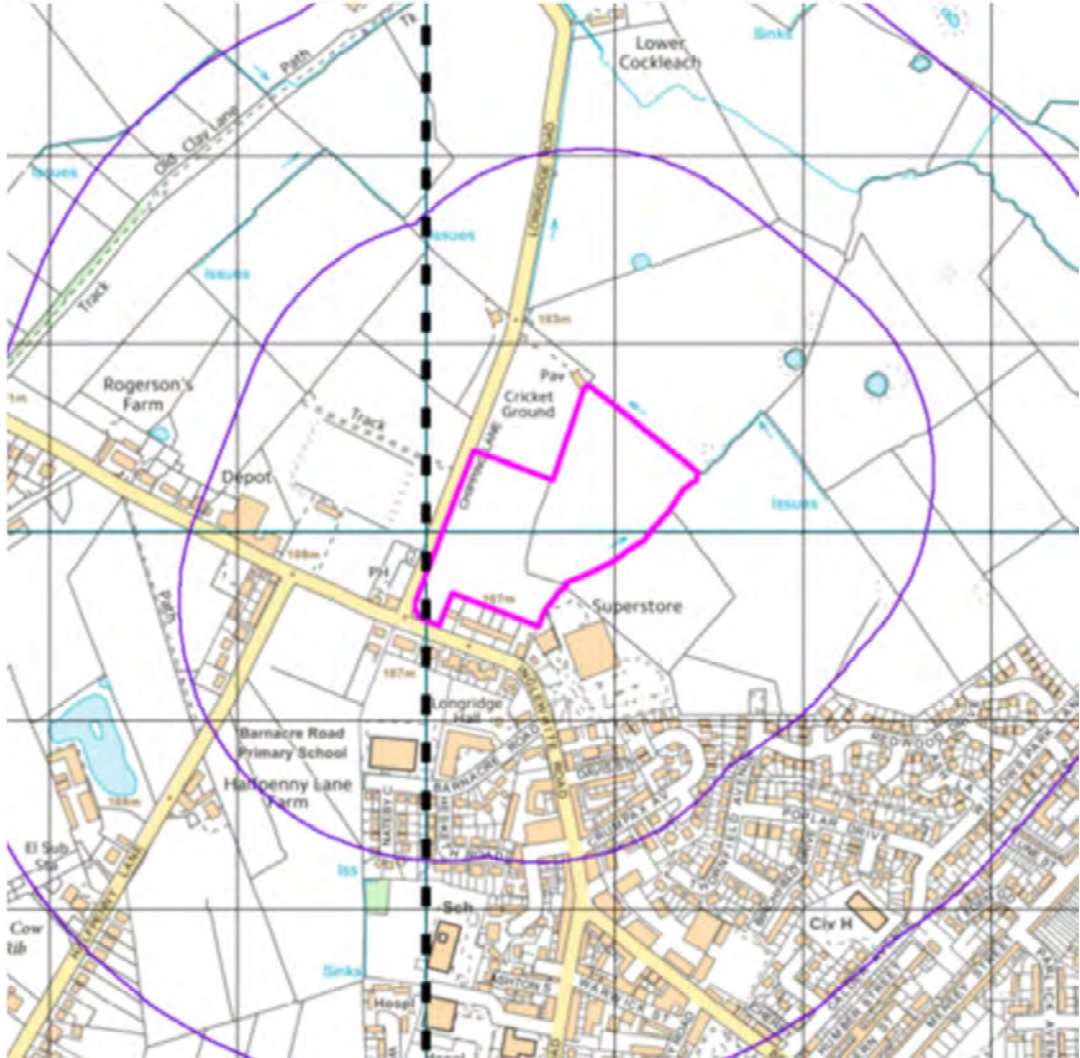
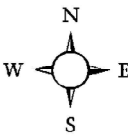
Consequently it is recommended that an intrusive investigation is undertaken to confirm the conceptual model or otherwise.

Environmental soil samples for chemical analysis should be obtained to determine if any contamination of the shallow soils and natural ground is present on site. Geotechnical samples should also be obtained in support of the design of foundations and roads.

In addition, the intrusive investigation will allow for the monitoring and sampling of groundwater / gas at the borehole locations.

Appendix A1 – Site Location Plan

Site Location Plan



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Key

 Approximate site boundary

Project
Boland Meadow, Higgin Brook

Drawing Title
Site Location Plan

Job Reference
EB1355

Date
28.03.2014

Author
GL

Checked
AW


10 Oxford Court,
Bishopgate,
Manchester
M2 3WQ

Tel: 0161 236 2394

Appendix A2 – Envirocheck Report

Envirocheck[®] Report:

Datasheet

Order Details:

Order Number:

55312619_1_1

Customer Reference:

EB1355

National Grid Reference:

360190, 438070

Slice:

A

Site Area (Ha):

7.22

Search Buffer (m):

1000

Site Details:

Site at 360130, 438020

Client Details:

Ms G Lownsbrough
Curtins Consulting Ltd
10 Oxford Court
Bishopsgate
Manchester
M2 3WQ

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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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Report Version v47.0

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 1			6	10
Enforcement and Prohibition Notices					
Integrated Pollution Controls					
Integrated Pollution Prevention And Control					
Local Authority Integrated Pollution Prevention And Control	pg 5				1
Local Authority Pollution Prevention and Controls	pg 5			3	3
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 5	Yes			
Pollution Incidents to Controlled Waters	pg 6	2	3	5	13
Prosecutions Relating to Authorised Processes					
Prosecutions Relating to Controlled Waters					
Registered Radioactive Substances					
River Quality	pg 9			1	
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register	pg 10				1
Water Abstractions	pg 10			1	2
Water Industry Act Referrals					
Groundwater Vulnerability	pg 10	Yes	n/a	n/a	n/a
Bedrock Aquifer Designations	pg 10	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 11	Yes	n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences				n/a	n/a
Flooding from Rivers or Sea without Defences				n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				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 14		Yes		n/a

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)	pg 15				2
Licensed Waste Management Facilities (Locations)	pg 15				1
Local Authority Recorded Landfill Sites					
Registered Landfill Sites	pg 15				4
Registered Waste Transfer Sites	pg 17				1
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					
Geological					
BGS 1:625,000 Solid Geology	pg 18	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 18	Yes	Yes	Yes	Yes
BGS Recorded Mineral Sites	pg 37			1	4
BGS Urban Soil Chemistry					
BGS Urban Soil Chemistry Averages					
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	pg 38	Yes		n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 38	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 39	Yes	Yes	n/a	n/a
Potential for Ground Dissolution Stability Hazards	pg 39	Yes	Yes	n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 39	Yes		n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 40	Yes	Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 40	Yes		n/a	n/a
Radon Potential - Radon Affected Areas	pg 40	Yes	n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
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Contemporary Trade Directory Entries	pg 41		6	20	26
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Sensitive Land Use					
Areas of Adopted Green Belt					
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones	pg 46		1		
Ramsar Sites					
Sites of Special Scientific Interest					
Special Areas of Conservation					
Special Protection Areas					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	<p>Discharge Consents</p> <p>Operator: Fred Wareing Property Type: Domestic Property (Single) Location: Norwood Inglewhite Road, Longridge, Near Preston, Lancashire, Pr3 2db Authority: Environment Agency, North West Region Catchment Area: Loud Reference: 01488 Permit Version: 1 Effective Date: 3rd October 1956 Issued Date: 3rd October 1956 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Trib Of Higgin Brook Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 10m</p>	A12NE (W)	439	1	359577 438077
2	<p>Discharge Consents</p> <p>Operator: United Utilities Water Plc Property Type: Water Treatment Works Location: Dilworth Wtp Dilworth, Longridge, Preston, Lancashire Authority: Environment Agency, North West Region Catchment Area: Loud Reference: 017190879 Permit Version: 2 Effective Date: 15th May 2008 Issued Date: 15th May 2008 Revocation Date: Not Supplied Discharge Type: Trade Discharges - Process Effluent - Water Company (Wtw) Discharge: Freshwater Stream/River Environment: Receiving Water: Higgin Brook, Trib River Loud Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m</p>	A14SW (E)	457	1	360830 438010
2	<p>Discharge Consents</p> <p>Operator: United Utilities Water Plc Property Type: Water Treatment Works Location: Dilworth Wtp Dilworth, Longridge, Preston, Lancashire Authority: Environment Agency, North West Region Catchment Area: Loud Reference: 017190879 Permit Version: 1 Effective Date: 15th August 2005 Issued Date: 15th August 2005 Revocation Date: 14th May 2008 Discharge Type: Trade Discharges - Process Effluent - Water Company (Wtw) Discharge: Freshwater Stream/River Environment: Receiving Water: Higgin Brook, Trib River Loud Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m</p>	A14SW (E)	457	1	360830 438010
3	<p>Discharge Consents</p> <p>Operator: Frank & Marion Judith Holden Property Type: Domestic Property (Single) Location: Copperfield 46 Halfpenny Lane, Longridge, Preston, Lancashire, Pr3 2ea Authority: Environment Agency, North West Region Catchment Area: Brock Reference: 017290607 Permit Version: 1 Effective Date: 9th June 2005 Issued Date: 9th June 2005 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Trib Of Blundell Brook Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m</p>	A7NE (SW)	491	1	359670 437540

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
4	<p>Discharge Consents</p> <p>Operator: Ridgmont Care Homes Ltd Property Type: Domestic Property (Multiple) Location: Belmont Residential Home Inglewhite Rd, Longridge, Preston, Lancashire Authority: Environment Agency, North West Region Catchment Area: Upper Ribble Reference: 017190181 Permit Version: 1 Effective Date: 22nd October 1985 Issued Date: Not Supplied Revocation Date: 30th April 1996 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Savick Brook Status: Lapsed (under Environment Act 1995, Schedule 23) Positional Accuracy: Located by supplier to within 100m</p>	A12SW (W)	495	1	359500 438000
4	<p>Discharge Consents</p> <p>Operator: Mr G Higson Property Type: Not Given Location: Belmont Residential Care Home , Inglewhite Road , Longridge, PRESTON , Lancashire Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 017290331-01 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Public Sewage: Tertiary Treatment Discharge: Freshwater Stream/River Environment: Receiving Water: Treated Sewage Effluent; Outlet To Watercourse; Tributary Blundel Brook Status: Not Supplied Positional Accuracy: Located by supplier to within 100m</p>	A12SW (W)	544	1	359450 438000
5	<p>Discharge Consents</p> <p>Operator: Mr William Whitwell And Mrs Margaret Pye Property Type: Domestic Property (Single) Location: Higher Cockleach Farm Chipping Road, Thornley, Longridge, Lancaster, Pr3 2nb Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: Npswqd005155 Permit Version: 1 Effective Date: 24th October 2008 Issued Date: 24th October 2008 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Land/Soakaway Environment: Receiving Water: Groundwaters Via Soakaway Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m</p>	A18NW (N)	496	1	360171 438770
6	<p>Discharge Consents</p> <p>Operator: Ridgmont Care Homes Ltd Property Type: Domestic Property (Multiple) Location: Belmont Residential Home Inglewhite Rd, Longridge, Preston, Lancashire Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 017290331 Permit Version: 1 Effective Date: 7th June 1996 Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Trib Blundel Brook Status: Post National Rivers Authority Legislation where issue date > 31/08/1989 Positional Accuracy: Located by supplier to within 100m</p>	A12SW (W)	543	1	359450 437995

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
7	<p>Discharge Consents</p> <p>Operator: J M Bruton Esquire Property Type: Domestic Property (Single) Location: Broadfield Inglewhite Road, Longridge, Preston, Lancashire Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 017190541 Permit Version: 1 Effective Date: 19th July 1995 Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Trib Blundell Brook Status: Post National Rivers Authority Legislation where issue date > 31/08/1989 Positional Accuracy: Located by supplier to within 100m</p>	A12SW (W)	592	1	359410 438050
8	<p>Discharge Consents</p> <p>Operator: G.S. Porter Property Type: Domestic Property (Single) Location: Bungalow, 37 Halfpenny La, Longridge, Preston, Lancashire, Pr3 2ea Authority: Environment Agency, North West Region Catchment Area: Brock Reference: 011224 Permit Version: 1 Effective Date: 29th November 1962 Issued Date: 29th November 1962 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Trib Of Blundell Brook Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 100m</p>	A7NW (SW)	595	1	359520 437550
9	<p>Discharge Consents</p> <p>Operator: Orchard Homes Ltd Property Type: Domestic Property (Single) Location: Plot Adjacent To Rydal House, Whittingham Road, Longridge, Near Preston, Pr3 2ab Authority: Environment Agency, North West Region Catchment Area: Savick Brook Reference: 017290600 Permit Version: 1 Effective Date: 3rd May 2005 Issued Date: 3rd May 2005 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Trib Of Blundell Brook Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m</p>	A7SE (SW)	722	1	359640 437280
10	<p>Discharge Consents</p> <p>Operator: David W Melling Property Type: Domestic Property (Single) Location: Copper Beeches, Whittingham Road, Longridge, Preston, Pr3 2ab Authority: Environment Agency, North West Region Catchment Area: Brock Reference: 017190918 Permit Version: 1 Effective Date: 18th September 2006 Issued Date: 18th September 2006 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Savick Brook Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 100m</p>	A8SW (S)	794	1	359900 437100

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
11	<p>Discharge Consents</p> <p>Operator: Mr A J Davies Property Type: Domestic Property (Single) Location: Land Adj To Rydal House Whittingham Road, Longridge, Preston, Lancashire, Pr3 2ab</p> <p>Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 017290393 Permit Version: 1 Effective Date: 6th May 1999 Issued Date: 6th May 1999 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Highway Drain To Blundel Brook Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 100m</p>	A7SE (SW)	810	1	359640 437180
12	<p>Discharge Consents</p> <p>Operator: Mr Anthony Jerome Dyson & Mrs Jaqueline Hines Property Type: Domestic Property (Single) Location: Whittingham Road, Longridge, Preston, Lancashire, Pr3 2ab Authority: Environment Agency, North West Region Catchment Area: Brock Reference: 017290569 Permit Version: 1 Effective Date: 21st March 2005 Issued Date: 21st March 2005 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Trib Of Blundel Brook Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 100m</p>	A7SW (SW)	864	1	359500 437200
13	<p>Discharge Consents</p> <p>Operator: United Utilities Water Plc Property Type: Water Treatment Works Location: Dilworth Wtp Dilworth, Longridge, Preston, Lancashire Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 017160050 Permit Version: 1 Effective Date: 19th October 1979 Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Trade Discharges - Process Effluent - Water Company (Wtw) Discharge: Freshwater Stream/River Environment: Receiving Water: Higgin Brook Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 100m</p>	A15NW (E)	939	1	361350 438140
14	<p>Discharge Consents</p> <p>Operator: Mr. David Newby Property Type: Domestic Property (Single) Location: Willow Tree Barn, Ashley Lane, Goosnargh, Preston, Pr3 2ee Authority: Environment Agency, North West Region Catchment Area: Brock Reference: 017290898 Permit Version: 1 Effective Date: 10th March 2006 Issued Date: 10th March 2006 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Un-Named Trib Blundell Brook Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m</p>	A11NE (W)	943	1	359090 438210

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
15	Local Authority Integrated Pollution Prevention And Control Name: Jones Stroud Insulations Ltd Location: Queens Street, Longridge, Preston, Lancashire, PR3 3BS Authority: Ribble Valley Borough Council, Environmental Health Department Permit Reference: RVBC/PPC/2/05 Dated: 1st April 2004 Process Type: Other Activities Description: SG6 Surface treatment using organic solvents Status: Permit Issued Positional Accuracy: Manually positioned to the address or location	A3NW (S)	935	2	360003 436939
16	Local Authority Pollution Prevention and Controls Name: Booths Service Station Location: Berry Lane, Longridge, PRESTON, Lancashire, PR3 3NH Authority: Ribble Valley Borough Council, Environmental Health Department Permit Reference: RVBC/PPC/23 Dated: 31st July 2000 Process Type: Local Authority Pollution Prevention and Control Description: PG1/14 Petrol filling station Status: Permitted Positional Accuracy: Manually positioned to the address or location	A8NE (S)	324	2	360266 437550
16	Local Authority Pollution Prevention and Controls Name: Syd Brown & Sons Location: Berry Lane, Longridge, PRESTON, Lancashire, PR3 3NH Authority: Ribble Valley Borough Council, Environmental Health Department Permit Reference: Rvbc/Epa/17/96 Dated: 29th February 1996 Process Type: Local Authority Air Pollution Control Description: PG1/1Waste oil burners, less than 0.4MW net rated thermal input Status: Authorisation revokedRevoked Positional Accuracy: Manually positioned to the address or location	A8NE (S)	324	2	360266 437550
17	Local Authority Pollution Prevention and Controls Name: Longridge Dry Cleaners Location: 6 Townley Parade, Longridge, Preston, Pr3 3hu Authority: Ribble Valley Borough Council, Environmental Health Department Permit Reference: RVBC/PPC/53 Dated: 5th December 2006 Process Type: Local Authority Pollution Prevention and Control Description: PG6/46 Dry cleaning Status: Permitted Positional Accuracy: Manually positioned to the address or location	A8NE (S)	429	2	360368 437466
18	Local Authority Pollution Prevention and Controls Name: Bonds Of Longridge Location: Kestor Lane, Longridge, PRESTON, Lancashire, PR3 3AE Authority: Ribble Valley Borough Council, Environmental Health Department Permit Reference: RVBC/PPC/21 Dated: 31st July 2000 Process Type: Local Authority Pollution Prevention and Control Description: PG1/14 Petrol filling station Status: Permitted Positional Accuracy: Automatically positioned to the address	A8SW (S)	716	2	360145 437155
19	Local Authority Pollution Prevention and Controls Name: T D G Ltd Location: Daniel Platt Garage, Whittingham Road, Longridge, PRESTON, Lancashire, PR3 2AD Authority: Preston City Council, Environmental Health Department Permit Reference: Pn 24 Dated: 18th June 1996 Process Type: Local Authority Air Pollution Control Description: PG1/1Waste oil burners, less than 0.4MW net rated thermal input Status: Authorised Positional Accuracy: Manually positioned to the address or location	A8SW (S)	752	3	359896 437144
20	Local Authority Pollution Prevention and Controls Name: Jones Stroud Insulations Plc Location: Queen Street, Longridge, PRESTON, Lancashire, PR3 3BS Authority: Ribble Valley Borough Council, Environmental Health Department Permit Reference: PPC/02/05 Dated: 31st January 1994 Process Type: Local Authority Pollution Prevention and Control Description: PG6/10 Coating manufacturing Status: Transferred to LAIPPC Positional Accuracy: Manually positioned to the address or location	A3NW (S)	965	2	359960 436914
	Nearest Surface Water Feature	A13SW (S)	0	-	360148 437943

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
21	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Higgins Bk Near , LONGRIDGE Authority: Environment Agency, North West Region Pollutant: Chemicals - Paints / Dyes Note: Higgin Bk; Poss Paint Incident Date: 18th June 1997 Incident Reference: 97340065 Catchment Area: Hodder Receiving Water: Freshwater Stream/River Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13SW (SW)	0	1	360100 437895
21	Pollution Incidents to Controlled Waters Property Type: Office Location: Higgin Brook Authority: Environment Agency, North West Region Pollutant: Miscellaneous - Inert Suspended Solids Note: Not Supplied Incident Date: Not Supplied Incident Reference: CE980843 Catchment Area: Hodder Receiving Water: Freshwater Stream/River Cause of Incident: Land Runoff Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13SW (SW)	0	1	360105 437895
21	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Lancashire Authority: Environment Agency, North West Region Pollutant: Oils - Unknown Note: Higgin Bk; Light Oil Incident Date: 10th May 1996 Incident Reference: 96340038 Catchment Area: Hodder Receiving Water: Not Given Cause of Incident: Other Incident/Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13SW (SW)	1	1	360100 437900
22	Pollution Incidents to Controlled Waters Property Type: Spillage; Accident - Static Site Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Organic Wastes: Milk Note: Higgin Brook Incident Date: 8th November 1993 Incident Reference: 93340102 Catchment Area: Hodder Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A13SW (S)	80	1	360200 437800
23	Pollution Incidents to Controlled Waters Property Type: Farm Drainage Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Organic Wastes: Silage Liquor Note: Higgin Brook Incident Date: 6th August 1994 Incident Reference: 94340119 Catchment Area: Hodder Receiving Water: Not Given Cause of Incident: Leaking Silo Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A18SW (N)	225	1	360200 438500
24	Pollution Incidents to Controlled Waters Property Type: Farm Drainage Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Organic Wastes: Pig Slurry Note: Higgin Brook Catchment Incident Date: 10th November 1991 Incident Reference: 91340110 Catchment Area: Hodder Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12SE (W)	289	1	359700 437900

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
25	Pollution Incidents to Controlled Waters Property Type: Construction: Construction Of Buildings Location: Lower Cockleach Farm Authority: Environment Agency, North West Region Pollutant: Organic Chemicals : Red Gas Oil Note: Not Supplied Incident Date: 30th January 1999 Incident Reference: 1921 Catchment Area: Higgin Brook Receiving Water: River Stretch (Freshwater) Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A18SW (N)	319	1	360200 438595
25	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Chipping Lane, LONGRIDGE Authority: Environment Agency, North West Region Pollutant: Miscellaneous - Urban Runoff Note: Not Supplied Incident Date: 14th July 1998 Incident Reference: CE980634 Catchment Area: Ribble - Non-Tidal Receiving Water: Freshwater Stream/River Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A18SW (N)	324	1	360200 438600
26	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Industrial Effluent Note: Higgin Brook; Milk Waste Incident Date: 17th September 1993 Incident Reference: 93340084 Catchment Area: Hodder Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A18SW (N)	345	1	360100 438600
27	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Animal Waste/Slurry Note: Not Supplied Incident Date: 21st November 1991 Incident Reference: 91310203 Catchment Area: Wyre Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12SE (W)	396	1	359600 438000
28	Pollution Incidents to Controlled Waters Property Type: Farm Drainage Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Organic Wastes: Pig Slurry Note: Tributary Blundells Bk Incident Date: 23rd June 1992 Incident Reference: 92310110 Catchment Area: Wyre Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A7NE (SW)	501	1	359600 437600
28	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Lancashire Authority: Environment Agency, North West Region Pollutant: Not Given Note: Not Supplied Incident Date: 22nd June 1992 Incident Reference: 92310106 Catchment Area: Wyre Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A7NE (SW)	504	1	359600 437595

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
29	<p>Pollution Incidents to Controlled Waters</p> <p>Property Type: Private Sewage: Sewage Works And Septic Tanks Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Sewage - Septic Tank Effluent Note: Tributary Blundell Brk Incident Date: 11th August 1993 Incident Reference: 93310109 Catchment Area: Wyre Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m</p>	A7NE (SW)	568	1	359600 437500
30	<p>Pollution Incidents to Controlled Waters</p> <p>Property Type: Private Sewage: Sewage Works And Septic Tanks Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Sewage - Septic Tank Effluent Note: Blundel Brook Incident Date: 30th January 1995 Incident Reference: 95310010 Catchment Area: Wyre Receiving Water: Not Given Cause of Incident: Deliberate Disposal To Drain Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m</p>	A7NW (SW)	710	1	359500 437400
31	<p>Pollution Incidents to Controlled Waters</p> <p>Property Type: Farm Drainage Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Organic Wastes: Cattle slurry Note: Savick Brook Incident Date: 18th February 1994 Incident Reference: 94410020 Catchment Area: Ribble - Tidal Receiving Water: Not Given Cause of Incident: Land Runoff Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m</p>	A12NW (W)	779	1	359300 438300
32	<p>Pollution Incidents to Controlled Waters</p> <p>Property Type: Private Sewage: Sewage Works And Septic Tanks Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Sewage - Septic Tank Effluent Note: Blundel Brook Incident Date: 25th October 1994 Incident Reference: 94310129 Catchment Area: Wyre Receiving Water: Not Given Cause of Incident: Deliberate Disposal To Drain Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m</p>	A7SW (SW)	851	1	359400 437300
32	<p>Pollution Incidents to Controlled Waters</p> <p>Property Type: Private Sewage: Sewage Works And Septic Tanks Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Sewage - Septic Tank Effluent Note: Blundel Brook Incident Date: 23rd March 1995 Incident Reference: 95310038 Catchment Area: Wyre Receiving Water: Not Given Cause of Incident: Deliberate Disposal To Drain Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m</p>	A7SW (SW)	855	1	359400 437295
33	<p>Pollution Incidents to Controlled Waters</p> <p>Property Type: Not Given Location: Lancashire Authority: Environment Agency, North West Region Pollutant: Unknown Note: None Affected; Petrol To Drains Incident Date: 7th November 1996 Incident Reference: 96340091 Catchment Area: Hodder Receiving Water: Not Given Cause of Incident: Road Traffic Accident Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m</p>	A3NW (S)	873	1	360001 437001

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
34	<p>Pollution Incidents to Controlled Waters</p> <p>Property Type: Connection To Surface Drains Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Crude Sewage Note: Savick Brook Incident Date: 8th March 1994 Incident Reference: 94410033 Catchment Area: Ribble - Tidal Receiving Water: Not Given Cause of Incident: Wrong Connection Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m</p>	A3NW (S)	891	1	359900 437000
35	<p>Pollution Incidents to Controlled Waters</p> <p>Property Type: Domestic & Residential: Private Dwellings Location: Longridge, LONGRIDGE, Lancashire Authority: Environment Agency, North West Region Pollutant: Sewage - Septic Tank Effluent Note: Not Supplied Incident Date: 12th August 1999 Incident Reference: 31556 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unauthorised Activity : Unconsented Discharge Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 10m</p>	A2NE (S)	918	1	359800 437000
36	<p>Pollution Incidents to Controlled Waters</p> <p>Property Type: Boats/Ships Location: Lancashire Authority: Environment Agency, North West Region Pollutant: Unknown Note: None Found Incident Date: 24th May 1994 Incident Reference: 94410079 Catchment Area: Ribble - Tidal Receiving Water: Canal Cause of Incident: Other Incident/Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m</p>	A2NE (SW)	954	1	359700 437000
37	<p>Pollution Incidents to Controlled Waters</p> <p>Property Type: Not Given Location: Lancashire Authority: Environment Agency, North West Region Pollutant: Miscellaneous - Inert Suspended Solids Note: Higgin Bk; Soil Incident Date: 17th December 1996 Incident Reference: 96340101 Catchment Area: Hodder Receiving Water: Not Given Cause of Incident: Land Runoff Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m</p>	A3NE (S)	975	1	360300 436900
38	<p>Pollution Incidents to Controlled Waters</p> <p>Property Type: Farm Drainage Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Organic Wastes: Poultry Manure (solid) Note: Tributary Savick Brook Incident Date: 11th December 1991 Incident Reference: 91320263 Catchment Area: Ribble - Tidal Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m</p>	A2NE (SW)	991	1	359600 437000
	<p>River Quality</p> <p>Name: Higgin Bk GQA Grade: River Quality D Reach: Qsl At Cockleach To Loud Estimated Distance (km): .9 Flow Rate: Flow less than 0.31 cumecs Flow Type: River Year: 2000</p>	A18SW (N)	393	1	360036 438627

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
39	Substantiated Pollution Incident Register Authority: Environment Agency - North West Region, North Area Incident Date: 3rd March 2008 Incident Reference: 568402 Water Impact: Category 2 - Significant Incident Air Impact: Category 4 - No Impact Land Impact: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 10m Pollutant: Inert : Construction / Demolition Material	A12NE (W)	521	1	359582 438309
40	Water Abstractions Operator: Martin Carefoot Licence Number: 2672409010 Permit Version: Not Supplied Location: Lyndhurst, LONGRIDGE Authority: Environment Agency, North West Region Abstraction: Not Supplied Abstraction Type: Not Supplied Source: Unknown Daily Rate (m3): 0 Yearly Rate (m3): 0 Details: Unnamed Watercourse (Field Drains) 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	A7NE (SW)	445	1	359600 437700
41	Water Abstractions Operator: Singletons Dairy Ltd Licence Number: Nw/071/0348/002 Permit Version: 1 Location: Mill Farm Borehole Authority: Environment Agency, North West Region Abstraction: Dairies: 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: Premises At Mill Farm, Preston Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 27th June 2013 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A3NW (S)	889	1	360176 436984
42	Water Abstractions Operator: Singletons Dairy Ltd Licence Number: 2671348013 Permit Version: 100 Location: Borehole At Mill Farm, Preston Road, Longridge Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 327 Yearly Rate (m3): 119469 Details: Land & Premises At Mill Farm Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 15th August 1989 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A3NW (S)	973	1	360200 436900
	Groundwater Vulnerability Soil Classification: Soils of Low Leaching Potential - Soils in which pollutants are unlikely to penetrate the soil layer because water movement is largely horizontal or they have large ability to attenuate diffuse pollutants. Lateral flow from these soils contribute to groundwater recharge elsewhere in the catchment Map Sheet: Sheet 10 Central Lancashire Scale: 1:100,000	A13SW (W)	0	1	360193 438069
	Drift Deposits Drift Deposit: Low permeability drift deposits occurring 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 10 Central Lancashire Scale: 1:100,000	A13SW (W)	0	1	360193 438069
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13SW (W)	0	4	360193 438069

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Bedrock Aquifer Designations Aquifer Desination: Secondary Aquifer - A	A13SW (W)	0	4	360001 438069
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13NW (N)	0	4	360179 438154
	Superficial Aquifer Designations Aquifer Designation: Unproductive Strata	A13SW (W)	0	4	360001 438069
	Superficial Aquifer Designations Aquifer Designation: Unproductive Strata	A13SW (W)	0	4	360193 438069
	Extreme Flooding from Rivers or Sea without Defences None				
	Flooding from Rivers or Sea without Defences None				
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				
43	Detailed River Network Lines River Type: Tertiary River River Name: Not Supplied Hydrographic Area: D011 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A13SE (E)	0	1	360289 438064
44	Detailed River Network Lines River Type: Extended Culvert (greater than 50m) River Name: Not Supplied Hydrographic Area: D011 River Flow Type: Primary Flow Path River Surface Level: Below Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A13NW (N)	0	1	360174 438159
45	Detailed River Network Lines River Type: Tertiary River River Name: Higgin Brook Hydrographic Area: D011 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A13SE (SE)	0	1	360254 438014

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
46	Detailed River Network Lines River Type: Tertiary River River Name: Not Supplied Hydrographic Area: D011 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A13NE (NE)	0	1	360233 438111
47	Detailed River Network Lines River Type: Tertiary River River Name: Higgin Brook Hydrographic Area: D011 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A13NW (NW)	0	1	360106 438235
48	Detailed River Network Lines River Type: Tertiary River River Name: Not Supplied Hydrographic Area: D011 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A13NE (NE)	153	1	360415 438384
49	Detailed River Network Lines River Type: Tertiary River River Name: Not Supplied Hydrographic Area: D011 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A18SE (N)	176	1	360232 438451
50	Detailed River Network Lines River Type: Extended Culvert (greater than 50m) River Name: Not Supplied Hydrographic Area: D011 River Flow Type: Primary Flow Path River Surface Level: Below Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A18SE (N)	201	1	360299 438460
51	Detailed River Network Lines River Type: Secondary River River Name: Not Supplied Hydrographic Area: D011 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A18SW (N)	235	1	360189 438509

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
52	Detailed River Network Lines River Type: Tertiary River River Name: Not Supplied Hydrographic Area: D011 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A14NW (NE)	250	1	360574 438392
53	Detailed River Network Lines River Type: Tertiary River River Name: Not Supplied Hydrographic Area: D011 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A14NW (NE)	250	1	360574 438392
54	Detailed River Network Lines River Type: Secondary River River Name: Not Supplied Hydrographic Area: D011 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A18SW (N)	272	1	360163 438543
55	Detailed River Network Lines River Type: Tertiary River River Name: Not Supplied Hydrographic Area: D011 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A18SE (NE)	305	1	360387 438536
56	Detailed River Network Lines River Type: Tertiary River River Name: Not Supplied Hydrographic Area: D011 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A19SW (NE)	327	1	360644 438432
57	Detailed River Network Lines River Type: Tertiary River River Name: Not Supplied Hydrographic Area: D011 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A19SW (NE)	327	1	360644 438432

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
58	Detailed River Network Lines River Type: Tertiary River River Name: Not Supplied Hydrographic Area: D011 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A18SW (NW)	333	1	359887 438489
59	Detailed River Network Lines River Type: Secondary River River Name: Not Supplied Hydrographic Area: D011 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A18SW (N)	390	1	360091 438644
60	Detailed River Network Offline Drainage River Type: Tertiary River Hydrographic Area: D011	A13NW (NW)	119	1	360006 438305
61	Detailed River Network Offline Drainage River Type: Tertiary River Hydrographic Area: D011	A13NW (NW)	159	1	359977 438333

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
62	Licensed Waste Management Facilities (Landfill Boundaries) Name: Lords Delph Licence Number: 54034 Location: Land/premises At, Forty Acre Lane, Longridge, Preston, Lancashire, PR3 2TY Licence Holder: William Pye Ltd Authority: Environment Agency - North West Region, North Area Site Category: Landfills Taking Non-biodegradeable Wastes (Not Construction) Max Input Rate: Not Supplied Licence Status: Issued Issued: Not Supplied Positional Accuracy: Positioned by the supplier Boundary Accuracy: As Supplied	A14NE (E)	748	1	361162 438202
63	Licensed Waste Management Facilities (Landfill Boundaries) Name: Chapel Hill Quarry Licence Number: 54011 Location: Chapel Hill Quarry, Longridge, Preston, Lancashire, PR3 Licence Holder: United Utilities Water Ltd Authority: Environment Agency - North West Region, North Area Site Category: Landfills Taking Non-biodegradeable Wastes (Not Construction) Max Input Rate: Not Supplied Licence Status: Issued Issued: Not Supplied Positional Accuracy: Positioned by the supplier Boundary Accuracy: As Supplied	A3NE (S)	957	1	360413 436933
64	Licensed Waste Management Facilities (Locations) Licence Number: 54034 Location: Land/premises At, Forty Acre Lane, Longridge, Preston, Lancashire, PR3 2TY Operator Name: William Pye Ltd Operator Location: Not Supplied Authority: Environment Agency - North West Region, North Area Site Category: Landfills Taking Non-biodegradeable Wastes (Not Construction) Licence Status: Issued Issued: 2nd June 1989 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 100m	A14NE (E)	694	1	361100 438100
	Local Authority Landfill Coverage Name: Ribble Valley Borough Council - Had landfill data but passed it to the relevant environment agency		0	2	360193 438069
	Local Authority Landfill Coverage Name: Lancashire County Council - Had landfill data but passed it to the relevant environment agency		0	8	360193 438069
	Local Authority Landfill Coverage Name: Preston Borough Council - Has no landfill data to supply		10	3	360054 438123
65	Registered Landfill Sites Licence Holder: William Pye Ltd Licence Reference: L 294 Site Location: Lords Quarry, Forty Acre Lane, Longridge, Preston, Lancashire, Pr3 2ty Licence Easting: 361250 Licence Northing: 438100 Operator Location: Shay Lane Industrial Estate, Longridge, PRESTON, Lancashire, PR3 3BT Authority: Environment Agency - North West Region, Central Area Site Category: Landfill Max Input Rate: Small (Equal to or greater than 10,000 and less than 25,000 tonnes per year) Waste Source: Some restriction on source of waste Restrictions: Status: Operational as far as is known Dated: 1st April 1990 Preceded By: L 294 Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Calc. Carb. Peaty Silt Ex Water Treat. Calcium Carbonate Beads And Max. Waste Permitted By Licence Uncontam. Soil, Rock, Clay, Nat. Sand Excav Prohibited Waste: Asbestos In Any Form Waste In Demountables Waste N.O.S. Whether/Not Pre-Trt/Pack'	A15NW (E)	843	1	361250 438100

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
65	<p>Registered Landfill Sites</p> <p>Licence Holder: William Pye Ltd Licence Reference: L 294 Site Location: Lords Quarry, Forty Acre Lane, Longridge, Preston, Lancashire, Pr3 2ty Licence Easting: 361250 Licence Northing: 438100 Operator Location: Shay Lane Ind Estate, Longridge, Preston, Lancashire Authority: Environment Agency - North West Region, Central Area Site Category: Landfill Max Input Rate: Undefined Waste Source: Some restriction on source of waste Restrictions: Status: Record supersededSuperseded Dated: 2nd June 1989 Preceded By: L 161 Licence: Superseded By: L 294 Licence: Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Calc.Carb.Peaty Silt Ex Water Treat. Calcium Carbonate Beads And Uncontam.Soil,Rock,Clay,Nat.Sand Excav Prohibited Waste: Clinical Waste As In Doe Wmp 25</p>	A15NW (E)	843	1	361250 438100
65	<p>Registered Landfill Sites</p> <p>Licence Holder: Bridgewater Estates Plc Licence Reference: L 161 Site Location: Lords Quarry At Forty Acre Lane, Thornton, Longridge, Preston, Lancashire Licence Easting: 361250 Licence Northing: 438100 Operator Location: Estate Office, Worsley, MANCHESTER, Greater Manchester, M28 4WJ Authority: Environment Agency - North West Region, Central Area Site Category: Landfill Max Input Rate: Undefined Waste Source: Some restriction on source of waste Restrictions: Status: Record supersededSuperseded Dated: 22nd September 1982 Preceded By: Not Given Licence: Superseded By: L 294 Licence: Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Ceramic Waste Constr'N/Demol. Inert/Non-Haz/Non-Tox Foundry Sand Glass/Cullet Industrial Wastes Metal Scrap Plastic/Polythene (Including Sacks) Wood Waste/Timber Prohibited Waste: Clinical Wastes As In Doe Wmp 25 Poisonous, Noxious, Polluting Wastes</p>	A15NW (E)	843	1	361250 438100
66	<p>Registered Landfill Sites</p> <p>Licence Holder: United Utilities Water Ltd Licence Reference: L 79 Site Location: Chapel Hill Quarry, Chapel Lane, Longridge, Preston, Lancashire Licence Easting: Not Supplied Licence Northing: Not Supplied Operator Location: Lingley Mere, Lingley Green Avenue, Great Sankey, Warrington, Cheshire, Wa5 3lp Authority: Environment Agency - North West Region, Central Area Site Category: Landfill Max Input Rate: Small (Equal to or greater than 10,000 and less than 25,000 tonnes per year) Waste Source: Some restriction on source of waste Restrictions: Status: Site dormant Dated: 1st October 1992 Preceded By: L 79 Licence: Superseded By: Not Given Licence: Positional Accuracy: Positioned by the supplier Boundary Accuracy: Moderate Authorised Waste: Concrete, Brick, Tarmac Fully Polymerised Mat'L Max.Waste Permitted By Licence Soil, Clay, Natural Sand, Rock Prohibited Waste: Clinical Wastes Liable To Cause Environmental Harm Waste N.O.S.</p>	A3NE (S)	960	1	360416 436930

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
67	<p>Registered Waste Transfer Sites</p> <p>Licence Holder: Walter Carefoot & Sons Ltd Licence Reference: L 523 Site Location: Blackpool Road, Longridge, Preston, Lancashire Operator Location: As Site Address Authority: Environment Agency - North West Region, Central Area Site Category: Transfer Max Input Rate: Very Small (Less than 10,000 tonnes per year) Waste Source: Some restriction on source of waste Restrictions: Licence Status: Licence has completion certificateSurrendered Dated: 1st July 1993 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Quality: Not Supplied Authorised Waste: Foliage,Shavings,Sawdust Or Their Prod Glass,Cement Max.Waste Permitted By Licence Non-Haz.Metals Plasterboard/Plaster Plastic Packaging & Paper Slate,Concrete,Brick,Ceramics,Stone Soil,Clay,Nat'L Sand, Rock Timber, Treated Or Untreated Prohibited Waste: Clinical Wastes Waste N.O.S. Whether Treated Or Not</p>	A8SW (S)	631	1	360050 437240

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Tournaisian and Visean (Carboniferous Limestone Series)	A13SW (W)	0	4	360193 438069
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SW (W)	0	5	360193 438069
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SW (W)	0	5	360000 438000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SE (SE)	0	5	360286 437976
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SW (S)	0	5	360193 438000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NW (N)	0	5	360179 438153
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NW (NW)	0	5	360120 438142

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: RuSoilExAs Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13NW (NW)	0	5	360137 438160
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13SW (W)	17	5	360000 438031
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13NW (NW)	23	5	360059 438226
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13SW (W)	29	5	360000 438069
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13NW (NW)	44	5	360047 438163
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13NW (NW)	44	5	360050 438217

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: RuSoilExAs Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13SW (W)	49	5	359966 438000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13SE (SE)	52	5	360310 438000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13NW (NW)	53	5	360046 438256
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13NE (N)	56	5	360250 438324
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13NW (NW)	60	5	360032 438243
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13NW (N)	76	5	360180 438343

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: RuSoilExAs Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13NW (N)	86	5	360198 438360
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13NE (N)	89	5	360263 438357
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13NW (NW)	92	5	360000 438162
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13NW (NW)	99	5	359995 438167
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13NW (NW)	100	5	360000 438171
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13SE (SE)	100	5	360377 438668

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: RuSoilExAs Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13NE (N)	101	5	360215 438377
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13NW (NW)	103	5	360000 438213
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13NW (N)	106	5	360169 438370
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13NW (NW)	115	5	359979 438193
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13NW (N)	119	5	360192 438393
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13NE (NE)	148	5	360421 438370