National Grid Property Holdings Ltd

Bradford Road NGP Land, Manchester

Ground Investigation Factual Report

(Location Code 0049)

Ground Investigation Factual Report (NGP Land) Final

August 2014

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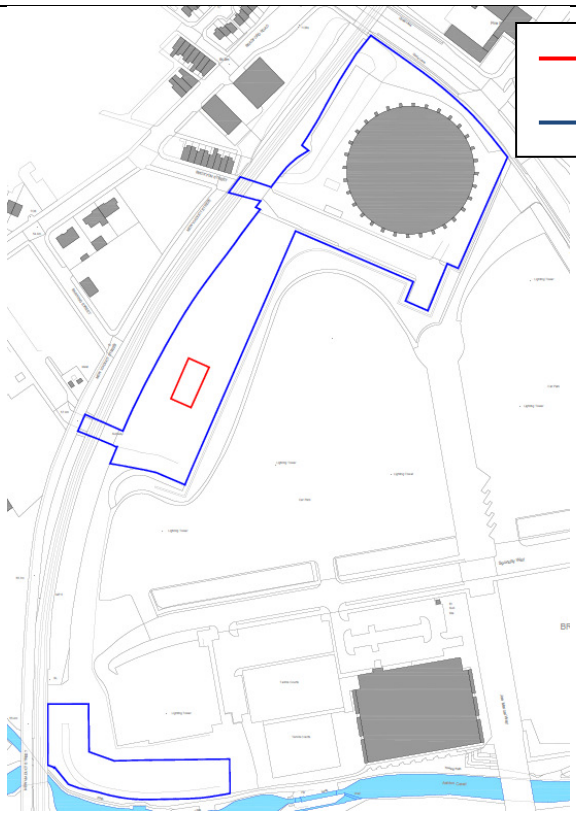
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Reporting Insert



NGP Document Tracking Code		**Site Address**	Bradford Road Gasholder Station, Broxton Street, Manchester, M40 7BN
Report Title	Environmental Assessment Ground Investigation Factual Report	**Reporting Type**	Contamination
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Brief Description of the Report Contents	Presentation of factual data arising from WYG Supplementary Ground Investigation		
Access Permitted	NGG/NGP Land Regeneration Team	**NGP Contact**	Keith Johnston

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Drawing No. A074754-142-LDS-N-0049-06	Visual and Olfactory Evidence of Contamination-Soils
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Archive Drawings

North Western Gas Board, Manchester Group. Bradford Road Works Plan. Drawing No. 3738/sl/1/A.1

North Western Gas Board, Technical and Planning Division. Bradford Road, Plan of Works. Drawing No. 12383

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0.0 Executive Summary

Introduction

WYG Environment (WYG) was commissioned by National Grid Property Holdings Ltd (NGP) to undertake a review of relevant factual information associated with their site off Bradford Road, Manchester. The site comprises a decommissioned gasholder and an operational gas transmission compound. [redacted]

Site Description Summary

The study area comprises [redacted] the Gasholder Station site is located approximately 2.5km east of Manchester City Centre at National Grid Reference 386580 399170 [redacted] For ease of reporting, the Gasholder Station is split into the north gasholder compound (NGP1) and the area to the south (NGP2) [redacted].

Site History

The site was formerly part of a larger coal gas manufacturing and storage facility. Original structures on NGP1 [redacted] were constructed in circa 1922, and largely demolished in the late 1970's and 1980's. Historical Ordnance Survey maps indicate that the River Medlock was culverted [redacted] around the turn of the 20th century. The main manufacture and processing plant were located to the south of NGP1, to the east of NGP2 [redacted], and are understood to have been demolished in the 70's and 80's, remediated, and redeveloped into car parks and recreational facilities in the 2000's. Remediation is reported to have included the placement of approximately 4m of inert fill above the original gasworks level, raising ground level adjacent to the site boundaries.

Ground Conditions (Summary of WYG 2013 data)

Made Ground: Underlying surface materials, Made Ground materials comprising predominantly of granular materials to maximum proven depths of 0.8m bgl in NGP1, deepening from 0.7m bgl to 5.75m bgl from north to southeast in NGP2, [redacted]

Superficial Deposits: Glacial Till was encountered across NGP1 and NGP2 (minimum depth 0.4 mbgl) [redacted]. The maximum encountered thickness of the Till diminished from north to south; being 18.3m thick in NGP1, 12.9m in NGP2 [redacted] A pocket / band of sand was noted within the Till in the southwest of NGP2, having a maximum thickness of 0.5m.

Solid Geology: [redacted] Variably weathered Mudstone and Siltstone of the Upper Coal Measures were encountered from [redacted] 18.8m bgl in NGP1. Coal beds (<0.32m thickness) were encountered in NGP1 and NGP2 at 21.26m bgl and 17.27m bgl respectively.

Hydrogeology

The Glacial Till is classified as Unproductive Stratum and the underlying bedrock (Coal Measures) is designated as a Secondary 'A' Aquifer with a High Vulnerability. Regional groundwater flow within the Coal Measures is recorded as to the west. The nearest groundwater abstraction is 524m north of the site, operated by Hansen Quarry Products for 'general purposes'.

Perched groundwater was encountered within Made Ground in the north of NGP1 and across NGP2 at the interface with the Glacial Till. [redacted] Within the underlying coal measures groundwater was recorded at approximately 38.55m AOD in the north of NGP1, at 36.36m to 3.15m AOD in NGP2 [redacted]

Hydrology

The nearest watercourse is the River Medlock, [redacted]

[redacted] During their most recent Quality Assessment (2000) the EA classified the River Medlock at a point 100m downstream of the site as 'E' – poor. Upstream of NGP3 is the former main gas production plant at the larger historical Bradford Road Gas Works.

Visual/Olfactory Evidence of Contamination

[redacted] Hydrocarbon sheen was encountered in shallow Made Ground in NGP2 (TP102 and TP105), [redacted] In addition to the previous mentioned locations, hydrocarbon odour without any visual evidence was also recorded in Made Ground in southeast and northeast NGP2 (TP6/BH03 and TP102)[redacted]. Visual and olfactory evidence of hydrocarbon contamination was observed within perched ground water in the southwest of NGP2, [redacted]

Ground Gas

[redacted] In NGP1 and 2 methane concentration did not exceed 0.2% v/v, and carbon dioxide was not recorded over 1.5 %v/v. Oxygen was recorded in the range 17.5 to 19.1 %v/v and flow rate was maximum at 0.5l/hr.

This sheet is intended as a summary of the assessment of the site in relation to ground contamination. It does not provide a definitive engineering analysis

1.0 Introduction

1.1 Instruction

WYG Environment (WYG) was commissioned by National Grid Property Holdings Ltd (NGP) to undertake a review of relevant factual information associated with their site off Bradford Road, Manchester. The site comprises a decommissioned gasholder and an operational gas transmission compound. The National Grid Gas (NGG) landholding has subsequently been split to form NGP and NGG provisions; this report documents the factual information pertinent to the land which has been retained by NGP, only.

1.2 Sources of Information

The following documents have been compiled within this report, in addition to sources of information included within the references, Section 9:-

- **WYG 2013** *Data Review, Bradford Road, Miles Platting, Manchester* Reference: A071420-DR-V1
- **WYG 2012** *Draft Data Review, Bradford Road Gasholder Station and Surplus Land, Manchester* Reference: A074754-28-DR-V1
- **WYG October 2012**, *Extended Phase 1 Habitat Survey Bradford Road Gasholder Station, Bradford, Manchester* Reference: Manchester32\A74754-28 Bradford\OUTPUTS
- **WSP 2003** *Interpretative Site Investigation Report Surplus Land and Holder Site Bradford Road,* Reference:13010222

1.3 Project Contact Details

The contact details for key members involved with the project are listed below in Table 1.1.

Table 1.1 Contact Details

Role	Organisation	Contact	Position/ Responsibility	Telephone
Client	NGP	Keith Johnston	Land Regeneration Manager	07831776286
Environmental Consultant	WYG	Jonathan Boyes	Project Manager	01132192552
CDMC	RSK	Alan Woods	CDMC	07787508767
Chemical Testing Laboratory	Jones	Janet Jones	Laboratory Manager	01244 833780

Role	Organisation	Contact	Position/ Responsibility	Telephone
Geotechnical Testing Laboratory	PSL	Antony Watkins	Laboratory Manager	0844 815 6641

1.4 Report Format

This report is presented in general accordance with NGP document '*Assessment and Remediation Core Specification'* (Version 2.0, January 2012) herein referred to as "the Core Specification" with specific reference to Appendix B9 (Site Investigation Reporting) and is presented in the following chapters.

- **Chapter 2** of the report presents a description of the subject site, the location, current status, topography, services, boundaries and adjacent land use.
- **Chapter 3** presents a summary of the environmental setting of the site including geology, hydrogeology, hydrology, local waste treatment and disposal facilities, regulatory permits and registers and sensitive land uses.
- **Chapter 4** of the report presents a summary of the historical development of the subject site and surrounding area.
- **Chapter 5** of the report presents a summary of the 3rd party site investigations carried out on the site.
- **Chapter 6** presents details of the ground investigation, including the scope of the ground investigation, monitoring and the scheduled analysis.
- **Chapter 7** of the report presents a summary of the ground conditions encountered including geology, the presence of visual or olfactory evidence of contamination encountered and groundwater and gas monitoring results.
- **Chapter 8** presents the QA/QC assessment for the soil and groundwater analysis undertaken during the ground investigation.
- **Chapter 9** presents the references used during the reporting of the ground investigation.

1.5 Terms and Conditions

This report has been prepared for NGPH in accordance with the terms and conditions of the current Term Contract agreement between NGP and WYG. This report is prepared in consideration of the proposed uses stated herein and should not be used in a different context without reference to WYG. Also in time, variations or amended legislation may necessitate re-assessment.

It should be noted that the scope of the assessment excludes issues relating to the buildings on site, especially the building fabric and any asbestos or other hazardous materials potentially contained therein. In addition, no checks have been carried out to ensure the accuracy of information obtained from third parties and no liability can be accepted for any errors or misinterpretation of the third party information where it has been incorporated in to this report.

2.0 Site Information

2.1 Site Details

The site, known as Bradford Road Gasholder Station [redacted] (herein referred to as *the site*) is owned by NGP [redacted] shown on the Promap drawing included in the initial Document Control table.

The Gasholder Station site is located approximately 2.5km east of Manchester City Centre and centred at approximate National Grid Reference 386580 399170. [redacted] A Site Location Plan is included as Drawing No. A074754-142-LDS-N-0049-01 included in Appendix A1.

Table 2.1 Site Contact Details

Site Address	Bradford Road Gasholder Station, (accessed from Broxton Street), Manchester, M40 7BN.
NGP Contact	Keith Johnston (07831 776286)
NGG Site Contact	John Appleby (07976 569877)
Site Telephone No.	N/A

2.2 Site Description and Current Use

For ease of reference, the site has been sub-divided into three separate areas referenced NGP1, NGP2 [redacted] based on geographical location and land-use as shown on the Site Layout Plan, A074754-142-LDS-N-0049-02 and summarised below. For ease of reference, the site is described in three areas as summarised below.

- **Area NGP1** - The gasholder compound is accessed from Broxton Street and comprises a roughly square shaped area of land covering a total area of approximately 2.5 hectares (Ha). The northern area of the site accommodates a gasholder compound including a 90m diameter column guided gasholder and associated boiler house located to the south-west of the holder. The compound is accessed through gates located to the south-west and south of the fenced compound. The ground surface of the gasholder compound is located at approximately 55m AOD and is approximately 2m higher than the land extending to the south-west. The ground surface is essentially level with the exception of the western extent of the compound which forms part of a railway embankment. It is understood that the gasholder compound has been permanently decommissioned.

- **Area NGP2** - Two above ground, redundant gas mains are carried on metal stanchions from the gasholder compound to a predominantly unused L-shaped area of land which extends approximately 200m to the south-west and covers an area of approximately 1.1 Ha. The ground surface of this area of the site slopes gently down to the south from approximately 52.5m AOD to 51.7m at the southern boundary. A live NGG compound including a pig trap is located in the southerly end of this area associated with a high pressure gas main (NGG1).
- [redacted]

2.3 Surrounding Land Use

The surrounding land uses are summarised in Table 2.2 below.

Table 2.2 Surrounding Land Use

Boundary	Adjacent Land Use(s)	Nearby Land Use(s)
Gasholder Station (NGP1 and NGP2)		
North	Alan Turing Way (A6010 highway)	Fire Station, light industrial / commercial and Phillips Park Cemetery
South	Sports City Car Park	Surplus Land (NGP3), public sports venues, Ashton Canal
East	Sports City Car Park	Phillips Park Cemetery
West	Railway and New Viaduct Street	Residential and commercial properties, and remainder of Bradford Road Gasholder Station
[redacted]		

2.4 Ground Surface Cover

A summary of the description and approximate surface area of ground surface cover observed across the site is summarised in Table 2.3 below.

Table 2.3 Ground Surface Cover

Site Area	Soft Ground/ Permeable Cover	Buildings & Hardstanding
	Description (% Cover)	Description (% Cover)
NGP1	- Grass/ scrub (10%) - Gravel (20%) - Woods & shrubs (railway embankment) (15%)	- Buildings (3%) - Asphalt (2%) - Gasholder (50%)
NGP2	- Rough vegetation (40%) - Gravel (10%)	- Concrete / asphalt (38%) - Plant / plant supports (2%)
[redacted]		

2.5 Plant and Equipment

A summary of above ground gas plant and equipment on the site is summarised below in Table 2.4 and is also shown on the Site Layout Plan, A074754-142-LDS-N-0049-02 included within Appendix A1.

Table 2.4 Above Ground Plant and Equipment

Site Area	Plant/ Equipment	Description	Status
NGP1	Gasholder (decommissioned)	90m diameter, three tier, column guided gasholder with below ground tank.	Disconnected/ Purged
	Boiler house and associated chimney and water tanks	Boiler house of brick wall construction with corrugated steel cladding and roof with metal chimney and insulated metal above ground tanks.	Disused
	Medium Pressure Above Ground Gas Main	36inch diameter, orientated east – west exits to NGP2 from gasholder compound.	Purged and isolated.
NGP2	High Pressure Gas Main	16 inch diameter below ground, orientated north - south. Enters Saxon Street High Pressure Compound from north, exiting east and becoming above ground at the south. Exits site above ground at the subway.	Live/ Operational
	Medium Pressure Above Ground Gas Main	36inch diameter, orientated north – south from NGP1, exits site west through subway.	Purged and isolated.
[redacted]			

2.6 Site Services

The location of all known site services as determined by reference to statutory service providers drawings and supplemented by geophysical and intrusive tracing are shown on the Summary Services Plan, A074754-142-LDS-N-0049-03, copies of statuary drawings are provided in Appendix B. A summary of services on the site is presented below in Table 2.5.

Table 2.5 Site Services

Site Area	Service Type/ Classification*	Location/ Orientation
NGP1	High Pressure (HP) Gas Main	16 inch diameter, orientated north / south, passing into NGP2
	Medium Pressure (MP) Gas Main	15 inch diameter, orientated north / south, passing into NGP2
	Intermediate Pressure (IP) Gas Main	12 inch diameter, orientated north / south, passing into NGP2
	Low Voltage (LV) Electrical Cable	From Alan Turing Way to the boiler house, around the gasholder. Also to cameras / lighting around the gasholder.
	Water Main	From Alan Turing Way, entering northeast of site, terminating east of the gasholder.
	CCTV data cable	From camera post in north of site, running southwest. Trace lost at railway viaduct.
NGP2	HP Gas Main	16 inch diameter, orientated north - south. Enters Saxon Street High Pressure Compound from north, exiting east and becoming above ground at the south. Exits site above ground at the subway.
	MP Gas Main	15 inch diameter from NGP1 proceeds east-west to gravel track and runs north-south to east of track. Exits site through subway.
	IP Gas Main	12 inch diameter, orientated east - west from NGP1, exiting site via Broxton Street viaduct bridge.
	LV Electrical Cable	From anecdotal evidence, to east of gravel track in ducting below concrete blocks.
	MP Gas Main (unconfirmed)	Located (traced) along the gravel track.
	Combined Sewer	Drains east into Broxon Street Sewer, orientated east – west on northern access road.
[redacted]		

3.0 Geology and Environmental Setting

The following sources have been referenced for the identification of the geology, hydrogeology and general environmental setting of the site:-

- British Geological Survey (BGS) Sheet 85 (Manchester) Solid and Drift Edition, 1:50,000;
- Envirocheck Report (presented in Appendix D); and
- Environment Agency website (www.environment-agency.gov.uk).

3.1 Published Geology

Published information from the British Geological Survey (BGS) along with previous third party fieldwork has been used to determine the ground conditions beneath the site as summarised in Table 3.1 below.

Table 3.1 Geological Summary

Site Area	BGS Published Records	Third Party Fieldwork Summary
Made Ground		
NGP1	None recorded	The previous phases of fieldwork typically encountered less than 1m of Made Ground, which typically comprised a gravelly fine to coarse sand with brick and ash/clinker.
NGP2	None recorded	Typically less than 1m of Made Ground with deeper areas in the south and east of the site. The deepest area of Made Ground was encountered in BH3 adjacent to the southern site boundary (5.75m). Made Ground typically comprised a gravelly fine to coarse sand with brick and ash/clinker.
[redacted]		
Superficial Strata		
NGP1	Glacial Till	BH1 adjacent to the northern site boundary recorded a thickness of Glacial Till of 9.22m, from 1.0m bgl to termination. Glacial Till was encountered typically in the form of a firm to very stiff slightly sandy slightly gravelly clay.
NGP2	Glacial Till	BH2 in the north of NGP2 recorded a thickness of Glacial Till of 7.4m, from 1.1 m bgl to termination. BH3 located adjacent to the southern site boundary encountered a 1.55m thick deposit of sand and gravel overlying a proven thickness of 1.1m of Glacial Till, from 6.75m bgl. Glacial Till was encountered typically in the form of a firm to very stiff slightly sandy slightly gravelly clay.
[redacted]		

Solid Geology		
NGP1	Upper Coal Measures	Not encountered.
NGP2	Upper Coal Measures	BH3 in the south of the Gasholder Station was the only exploratory hole to encounter Coal Measures; a weak, dark grey, sandy very, clayey shale from 8.5mbgl to 9.8mbgl (42.66-41.36mAOD), at which point the borehole terminated.
[redacted]		
Upper Coal Measures (sandstones, mudstones, siltstones and coal) are indicated by the BGS to dip at approximately 18 degrees to the southwest. The Bradford Fault (extensional faulting) is conjectured to subcrop approximately 1km to the northeast of the site and the Ardwick Fault is conjectured to subcrop 1.5km to the southwest.		

3.2 Mining and Mineral Extraction

A Coal Authority Report issued in 2003 listed fourteen mine entries within 20m of the site although none of which are located on the site. Coal Authority Reports have been acquired for both site areas are held in Appendix C and are summarised below.

Gasholder Station Site (NGP1 and NGP2)

The Yard Mine coal seam (0.5 - 1.2m thick) is indicated to subcrop close to the northern boundary of the site. The Bradford Four Foot Mine coal seam (1.4m thick) and the Bradford Three-Quarters Mine coal seam (0.5m thick) are indicated to subcrop beneath the centre of the site.

The Coal Authority Report for the Gasholder Station site indicates that the site is in the likely zone of influence from workings in seven coal seams at 40m to 900m depth. The seams were last worked in 1961 and therefore any ground movement from these workings should have now stopped. Coal may have been worked at or close to the surface in the past.

The Coal Authority Report suggests that appropriate technical advice should be sought prior to undertaking development works.

[redacted]

[redacted]

3.3 Hydrogeology

A summary of the hydrogeological setting of the site is presented below:

- The **BGS Groundwater Vulnerability Map** indicates that the Glacial Till is likely to be an Unproductive Stratum and the underlying bedrock (Coal Measures) is a Secondary Aquifer (fractured or potentially fractured rocks that do not have high primary permeability) with a High Vulnerability. As an Unproductive Stratum, the Glacial Till may contain groundwater locally in subordinate granular features although the lateral and vertical connectivity is likely to be limited.
- There are no groundwater **Source Protection Zones** within 1km of the site.
- The nearest **groundwater abstraction** is located 524m to the north of the site and is operated by Hansen Quarry Products presumably for industrial purposes; the permit end date is not supplied. There are no other groundwater abstractions listed within 1km of the site.
- It is understood that **regional groundwater flow** trends to the west within the Coal Measures.

Groundwater information obtained during the previous phase of fieldwork undertaken by WSP is summarised in the following table.

Table 3.2 WSP 2003 Groundwater Record Summary

Site Area	Fieldwork Observations	Post Fieldwork Monitoring Observations
Made Ground and Glacial Till		
NGP1	None recorded.	BH1, screened within the Glacial Till, recorded a groundwater elevation of 47.97mAOD (6.4mbgl) during the first groundwater monitoring round and was dry during the second.
NGP2	Groundwater was struck in the sand and gravel horizon encountered in BH3. A slight groundwater seepage was recorded above the Glacial Till in TP2 (0.7mbgl), TP3 (0.4mbgl) and TP7 (0.3mbgl). Groundwater was also noted to be perched above a concrete	BH2, screened within the Glacial Till, recorded a mean groundwater elevation of 48.41mAOD (3.84mbgl) and was noted to be slow to recharge during sampling. BH3, screened across the Made Ground and underlying sand and gravel horizon on the southern site boundary recorded a mean groundwater elevation of 46.47mAOD (4.69mbgl).

Site Area	Fieldwork Observations	Post Fieldwork Monitoring Observations
	substructure encountered in TP8 at 0.4mbgl.	
[redacted]		
Coal Measures		
No groundwater monitoring was undertaken in the Coal Measures in either the Gasholder Station (NGP1 and 2) [redacted].		

3.4 Hydrology

For ease of reference, distances to the closest significant water courses are tabulated below.

Table 3.3 Hydrology Summary

Site Area	Watercourse Direction and distance from site (m)	Historical Environment Agency General Quality Assessment (2000)
NGP1	- River Medlock, 100m South	- Quality E (poor)
	- Ashton Canal, 440m South	- GQA Quality C (fairly good)
	- Rochdale Canal, 400m north	- GQA Quality B (good)
NGP2	- River Medlock, 200m South	- Quality E (poor)
	- Ashton Canal, 220m South	- GQA Quality C (fairly good)
[redacted]		

A summary of the local hydrology is presented below:

- The nearest **surface water abstraction** is from the Ashton Canal located approximately 370m east of the site and is operated by British Waterways. No details such as permit end date are listed. There are no active abstractions from the River Medlock listed within 1km of the site.
- The nearest **active Discharge Consent** for discharge of Storm Sewage Overflow by United Utilities at a location listed as 191m north of the site discharging into Shooters Beck.
- The nearest **Pollution Incident** was located 12m east of the site, a minor incident in 1996 relating to fire water/foam, no pollution was found. No other pollution incidents are listed within 500m of the site.

3.5 Waste Treatment and Disposal

A summary of information on local Waste Treatment and Disposal facilities is presented below:

- **Historical Landfill Sites** operated by North West Gas are recorded located immediately east and south of NGP1 and NGP2 [redacted] It is understood approximately 4m of material was placed following decommissioning of the former coal gasworks located in these areas. Deposition occurred between 1979 and 1983 and the waste is listed to include Inert, Industrial and Special Waste. An area adjacent to the southeast corner of the Gasholder Station site was registered to receive asbestos and Construction and Demolition Wastes in 1983.
- Between 1965 and 1968, the Central Electricity Generating Board was depositing Special Waste and Liquid Sludge in another **Historical Landfill** located approximately 731m east of the site.
- The nearest **Waste Management Facility** was located approximately 300m west of the Surplus Land site and was categorised as a Metal Recycling Site. The license was surrendered in 1999.
- A **Waste Treatment or Disposal Site** registered as a scrapyard is situated approximately 200m west of the Surplus Land site.

3.6 Regulatory Permits and Registered Processes

A summary of information on local Regulatory Permits and Registered Processes is presented below:

- A **Control of Major Accident Hazards (COMAH)** designation is attributed to the gasholder in Area NGP1. The gasholder also has a **Planning Hazardous Substance Consent (PHSC)** and a 'ceased' **Notification of Installations Handling Hazardous Substances (NIHHS)** attributed to it. Another gasholder, approximately 200m to the west of the site, has a COMAH and PHSC designation.
- Three **Integrated Pollution Controls** are located within 1km of the site, the nearest of which is 437m northwest of the site and is attributed to Degussa Ltd (metallurgists).
- Three **Integrated Pollution Prevention and Control** activities are located within 1km of the site, the nearest of which is 466m north of the site and is held by Princes Ltd for Animal, Vegetable and Food Treating.

- Seventeen **Local Authority Pollution Prevention and Controls** activities are located within 1km of the site. The nearest permitted activity is approximately 50m south of the Surplus Land site, is held by J & F Brooks and relates to air pollution although the license is listed as revoked. The nearest licensed Local Authority Pollution Prevention and Control is located approximately 250m southwest of the Surplus Land site and is held by Forrest and Syms, pertaining to iron, steel and non ferrous metal foundry processes. There are a total of 11No. Local Authority Pollution Prevention and Controls have been issued within 1km of the site. The nearest "permitted" process is located 271m west of the site and is licensed to Stockport Dry Cleaners for dry cleaning.

3.7 Ecology

A Phase 1 Habitat Survey was undertaken on 4th September 2012 by WYG. The full Report, Ref. Extended Phase 1 Habitat Survey, WYG October 2012, is included at Appendix H, and findings are summarised below:

- Potential habitats on site included: broadleaved woodland, scattered trees, scrub, tall rudereal, poor semi-improved grassland, ephemeral / short perennial, brick wall (including the viaducts) and included invasive species, namely Himalayan Balsam, the location of which is presented on Figure 1 of the attached report.
- The above habitats potentially offer support to common reptile species, common birds, and hedgehogs. Common blue butterflies were noted during the survey.
- The railway viaduct has a low potential for housing bats.
- Ashton Canal is recorded as a Site of Biological Interest by GMEU for aquatic flora, located immediately south of the Surplus Land (NGP3).
- Protected and Notable Species within up to 0.3km of the site are recorded to include 5No. bat species, Slow Worm (Anguis fragilis), Water Vole (Arvicola terrestris), Badger (Mele mele), Common Toad (Bufo bufo) and Little Plover (Charadrius dubius).

4.0 Summary Historical Development

Information relating to the historical development of the site has been obtained from the following information sources:-

1. Historical Ordnance Survey Maps (1:1056, 1:500, 1:1,250, 1:10,560, 1:10,000) provided with the Envirocheck Report (presented in Appendix E);

2. National Gas Archives (presented in Appendix A2).

A Historical Layout Plan, summarising identified historical structures across and immediately adjacent to the site, is provided as Drawing A074754-142-LDS-N-0049-04 contained within the Appendix A1.

4.1 Site Development Overview

The site previously formed part of a much larger coal gas manufacturing and storage facility known as Bradford Road Gasworks. Construction of the gasworks began in the late 19th century and the first gasworks structures on the Gasholder Station (NGP1 and NGP2) [redacted] had been built by 1922 and included the extant gasholder in NGP1. The primary gas manufacture and processing plant were located to the south of NGP1, to the east of NGP2 [redacted]. Historical Ordnance Survey maps indicate that the River Medlock was culverted around the turn of the 20th century.

The gasworks continued to expand until production ceased in the 1970's after which time the majority of structures and plant were demolished.

The portion of Bradford Road Gasworks to the south of NGP1, to the east of NGP2 [redacted] were remediated in the 2000's and redeveloped to create car parks and sports facilities. The works are understood to have included the placement of approximately 4m of fill material above the original gasworks level, raising ground level adjacent to the site boundaries. These activities are understood to be the licensed landfill operations that are indicated to have taken place in the early 1980's.

Historical on site and cross-boundary structures are shown on the Historical Layout Plan, A074754-142-LDS-N-0049-04 contained within the Drawings Section and known structures are summarised by reference number in Table 4.1 below.

Table 4.1 Historical On Site and Cross-boundary Structures

Ref	NGP1	Map Date	Ref	NGP2	Map Date	Ref	[redacted]
C1	Gasholder	1922	A3	Railway	1893	A5	
C2	Siphon Pit	1922	D1	Coke Office	1948	D10	
E1	Railway	1951	D2	Railway	1948	D11	
H5	Boiler House	1974	F1	Retort House D	1956	D12	
			F3	Retort House C	1956	D13	
			F10	Mess Room	1956	F6	
			F12	Mess Room	1956	F9	
			G1	Coal Bunkers	1958	G2	
			I1	Saxon Street	1992	G4	
						H2	
						H3	

4.2 Previous Remediation

There are no records available of any remediation works taking place on the site although remediation is understood to have taken place on the site to the south of NGP1, east of NGP2 [redacted]. This remediation is understood to have included raising the former site level by placement of up to approximately 4m of fill although no details have been obtained.

5.0 Previous 3rd Party Site Investigations

5.1 WSP Surplus Land and Holder Site, Bradford Road, Site Investigation (2003)

The scope of works for the NGP1 and NGP 2 was as follows:

- Three boreholes drilled to depths between 8.5mbgl and 10.22mbgl, all completed with groundwater monitoring installations in either the Glacial Till or Made Ground;
- Eight trial pits were excavated to depths between 1.5mbgl and 3.2mbgl;
- Two hand pits located adjacent to the operational gasholder, no logs are supplied;
- Only disturbed soil samples were obtained from exploratory holes, no U100s or Standard Penetration Tests (SPTs) were undertaken;
- Twenty one Standard NG Soil Suites comprising phenols, PAHs, inorganics, metals. Five TPH, one BTEX and four asbestos analyses. Five Standard NG Leachate Suites comprising phenols, PAHs, inorganics, metals and eight Standard NG Water Suites comprising phenols, PAHs, inorganics, metals.



Ground Conditions

A summary of the ground conditions encountered during the investigation is present below.

Made Ground was generally recorded at thicknesses of less than 1m in NGP1 and NGP2. The Made Ground encountered was generally concrete and brick footings. BH3 located in the south of NGP2 found Made Ground to 5.75m bgl comprising 4.7m of ash fill with fragments of pottery, ceramic and fabric over clay fill. In NGP3 Made Ground typically comprised mixtures of clay, sand and gravel sized soil fractions with varying amounts of ash, clinker, wood brick and cobble sized masonry.

Superficial deposits comprised Glacial Till (stiff to very stiff, slightly sandy, slightly gravelly clay). Clay was proven to a depth of 10m.

Coal Measures were encountered beneath NGP1 and NGP2 to a depth of 9.8m bgl.

Visual/Olfactory Contamination

Table 5.1 summarises the following visual/olfactory evidence was noted during the site works:-

Table 5.1 WSP 2003 Visual and Olfactory Evidence of Contamination

Exploratory Hole	Depth (mbgl)	Description	Strata
[redacted]			
BH03	3.8 - 4.0	Hydrocarbon odours	Made Ground
	4.7 – 5.75	Strong hydrocarbon odours	
TP06	3.0-3.2	Moderate odours of petrol	Made Ground
[redacted]			

Groundwater

During the site investigation groundwater was encountered as slight seepages or seepages within the Made Ground and superficial strata. The following was identified:-

- Seepage / slight seepage between 0.3 and 0.7m bgl at the top of the natural clay horizon in TP02, TP03 and TP07.
- Perched water was encountered at 0.4m bgl in TP08 in concrete.

Gas /Groundwater

No gas / groundwater monitoring was undertaken during the WSP 2003 ground investigation works.

6.0 Ground Investigation

6.1 Scope of Investigation Works

The ground investigation was undertaken between the 9th and 23rd January 2013 with advance tree and vegetation clearance undertaken on 19th November to 4th December 2012 and advance service clearance survey undertaken on the 6th and 7th December 2012.

Two groundwater monitoring events were undertaken on the 11th and 12th February and the 6th and 7th March 2013.

The site works comprised the key elements summarised in Table 6.1 below.

Table 6.1 Scope of Penetrative Ground investigation by Area

Excavation Method	Bradford Road Gasholder Station		[redacted]	Total
	NGP1	NGP2		
	Number of Exploratory Hole			h (m bgl)
Trial Pits – Vacuum Excavation	0	6 (0.7)		6 (0.7)
Trial Pits – Hand Excavation	3 (1.5)	1 (1.3)		6 (1.5)
Trial Pits – Machine excavation	1 (2.5)	2 (1)		10 (3.5)
Dynamic Sampling Boreholes	1 (18.5)	2 (14.5)		9 (18.5)
Rotary Follow-On Drillholes	1 (30)	1 (25)		4 (30)
Groundwater Monitoring	1	3		11
Variable Head Permeability Tests	0	0		2

Vacuum excavation techniques were utilised along the line of the active below ground medium pressure gas main in NGP2 because of request by NGG Low Pressure Plant Protection, due to the unknown depth and fragility of the ductile main.

The exploratory holes were logged in accordance with BS5930:1999+A2:2010 by suitably qualified WYG Engineers. The locations of the exploratory holes are shown the Exploratory Hole Location Plan, A074754-142-LDS-N-0049-05. Records of the fieldwork including site diary, exploratory hole logs, gas and groundwater monitoring records and Variable Head Tests records are held for reference, respectively, in Appendix G.

6.1.1 Limitations

The following limitations/ deviations were required in variance to the original proposed scope:-

- It was not possible to complete BH101 in the vicinity of the former retort houses due to the presence of numerous obstructions. Due to service presence, including the necessary clearance required from the Medium and High pressure mains, a further alternative to the six attempted locations was not available.
- [redacted]

6.2 Sub-Contractors Details

Table 6.2 below presents details of the Subcontractors used during the ground investigation.

Table 6.2 Ground investigation Contractor Details

Ground Investigation Activity	Contractor	Contact Details
Vacuum Excavation	Earth Engineering Limited	Unit 7 Fishwick Industrial Estate, Kilbuck Lane, Haydock, St. Helens, WA11 9SZ 01942 725590
Hand Pit Excavation		
Dynamic Sampling Boreholes	Dynamic Sampling Limited	Unit 8, Victory Way, Victory Park, Derby, DE24 8ZF Tel: 01332 771104
Rotary Boreholes		
Machine Excavated Trial Pits	Clive Hurt Plant Hire Limited	Sandham House, Red Rose Drive, Lancashire Business Park, Leyland, Lancashire, PR26 6TJ Tel: 01772 432475

6.3 Laboratory Analysis

6.3.1 Chemical Laboratory Testing

The scope of laboratory testing undertaken as part of the investigation is summarised below in Table 6.3. All chemical testing was carried out by Jones Environmental Laboratories, a UKAS and MCERTS accredited laboratory. Copies of the test certificates are included in Appendix G.

Table 6.3 Chemical Analysis Summary Table

Analysis	Total No. Samples
SOILS	
NG Soil Suite	59
TPH CWG	41
Fraction Organic Carbon	20
Asbestos Screen	30
WAC Analysis (Full)**	4
SOIL-LEACHATE	
NG Leachate Suite with BS EN 12467-1 Preparation	22
Leachable TPH CWG	15
GROUNDWATER*	
NG Water Suite	27
Hardness ($CaCO_3$)	17
TPH CWG	16
MNA Suite	16
SVOC	5
VOC	5
PRODUCT	
Whole oil characterisation (Forensic fingerprinting)	1

Key:
* Includes 4No. trip blanks and 4No. duplicate samples, analysed for NG suite only
** Preliminary WAC testing was completed on selected soils anticipated to potentially require excavation and disposal off site. For full waste acceptance classification, consultation and agreement with an appropriate landfill is required. Analytical certificates are included in Appendix G of the WYG 2013 Factual Report for later reference at potential remediation stage.

6.3.2 Geotechnical Laboratory Testing

Table 6.4 summarises the geotechnical laboratory tests undertaken on soil samples obtained from the site. These tests were undertaken by Professional Soils Laboratory Ltd to the requirements of BS1377, 1990.

Table 6.4 Geotechnical Analysis Summary Table

Analysis	Total No. Tests
Moisture Content	18
Atterberg Limits	9
Particle Size Distribution / Sedimentation	9
Bulk / Dry density by linear measurement	9
Permeability in Triaxial Cell	3

Geotechnical analysis results are presented in Appendix G.

6.4 Health & Safety

The works were undertaken in accordance with NGP procedures and the WYG Site Specific Health and Safety Plan, approved prior to commencement of works by Alan Woods from RSK, the CDM Co-ordinator. Works were completed in accordance with the principles of the CDM Regulations.

All works were undertaken in accordance with a Permit to Work or Form of Authority as appropriate, issued by National Grid Gas (NGG) Authorising Engineer. Permits were issued by John Appleby and accepted by Competent Person Rebecca Pool of WYG. Chris Dunning (NGG Maintenance/ Low Pressure Gas Mains Team) visited the site on 6th December 2012 to discuss and approve the excavation methods in regard to on site low pressure gas mains, no marking out was undertaken. Karl Royales (NGG High Pressure Pipelines Engineer) visited the site on the 2nd October 2012 to discuss and approve the excavation methods in regard to on site high pressure gas mains. Karl Royales revisited the site on the 6th December 2012 to mark out the route of the high pressure main in the area cleared of trees in NGP2.

[redacted]

6.5 Waste Management

All non-hazardous waste (general waste) and contaminated soil arisings generated by the site works were segregated and stored in appropriately labelled skips. All waste water generated from rotary drilling and purging groundwater prior to sampling from the monitoring wells was stored in IBCs (3No. 1000l sized). Table 6.5 below contains a summary of waste disposal contractors used during the ground investigation.

The skips were collected from site by Circle Liverpool on 11th February 2013. The IBCs were collected by Acumen Waste Services Ltd on 2nd and 12th July 2013.

Table 6.5 Waste Disposal Contractor Details

Waste	Contractor	Contact Details
Non-hazardous Solid Waste Disposal	Nationwide Skip Hire Ltd, subcontracted to Circle Liverpool Ltd.	Circle Liverpool Ltd., Seddon Building, Plodder Lane, Edge Fold, Bolton, Lancashire, NL4 0NN Telephone: 0151 2079030 Duty of Care: Controlled Waste Transfer Note: 26475) Registered Waste Carrier Registration No. CB/BE5895RN Registered Waste Management License: EA WML 50068
Potentially Hazardous Solid Waste Disposal	Nationwide Skip Hire Ltd, subcontracted to Circle Liverpool Ltd.	Circle Liverpool Ltd., Seddon Building, Plodder Lane, Edge Fold, Bolton, Lancashire, NL4 0NN Telephone: 0151 2079030 Duty of Care: Controlled Waste Transfer Note: 26474 Registered Waste Carrier Registration No. CB/BE5895RN Registered Waste Management License: EA WML 50068
Non Hazardous Waste Water Disposal	Acumen Waste Services Ltd subcontracted to WasteCare / Silver Lining Industries Ltd	WasteCare Group, Richmond house, Garforth, Leeds, LS25 1NB / Silver Lining Industries Ltd, Unit 1, Garaleena Park, Gorsey Lane, Widnes, WA8 0RP Waste Transfer Note 1108023-1, Trip ID: 171947. Registered Waste Carrier Registration No. : CB/ZN5079VS Waste Disposal License No.: WML 50500

7.0 Ground Investigation Findings

7.1 Ground Conditions

A description of the ground conditions encountered is summarised below in Table 7.1. The Exploratory Hole Location Plan is included as Drawing No. A074754-142-LDS-N-0049-05 in the Drawings Section.

Table 7.1 Ground Conditions Summary

Strata	Description	Lateral Distribution	Vertical Distribution
Surface Materials	**Asphalt** – black asphalt overlying sub-base materials	NGP2 north access road only	Not proven
	Concrete – locally reinforced concrete overlying sub-base materials	NGP2 within north access road, in south at bunkers / bays and between the bays.	At surface, 0.3m thickness at TP105
	Gravel – angular limestone / sandstone and locally concrete	NGP1 around gasholder, NGP2 to access track in east, NGP3 evident to ramp only	0.05m to 0.4m thickness
	Reworked Natural Strata – soft-firm clay with variable sand and gravel components	NGP2 in west, roughly vegetated area	0.0m to 0.4m bgl, 0.4m thickness
Made Ground Materials	**Ash Made Ground** - a sandy fine to coarse Gravel with brick, concrete and ash/clinker	NGP1 – to northwest and southwest of gasholder	From a minimum of 0.05m bgl to a maximum of 0.8m bgl, maximum thickness 0.7m
		NGP2 – in HP103 and TP104	0.25m to 0.5m bgl and 0.6m to 0.7m bgl respectively
		[redacted]	
	[redacted]		
	General Made Ground – Grey brown to black **GRAVEL** with variable clay, sand and cobble content comprising predominantly concrete, brick and sandstone.	NGP2 - west of access track and underlying tarmac slab adjacent to bays	From a minimum of 0.0m to a base depth of 0.5m to 0.6m bgl, and underlying concrete to a maximum proven depth of 0.8m bgl Maximum thickness 0.6m
		[redacted]	
	Reworked Natural Strata – Silty, sandy clay with variable gravel fraction	[redacted]	
Superficial Natural Strata	**Alluvium –** dark grey sandy or silty **CLAY**		
	Alluvium – Yellow Brown **SAND**		

Strata	Description	Lateral Distribution	Vertical Distribution
	Glacial Till – stiff sandy, gravelly **CLAY** with rare cobbles or boulders of sandstone and subordinate sand pockets	NGP1 - whole area	From minimum of 0.4m bgl to 18.8m bgl, proven thickness of 18.3m
		NGP2 – whole area	From encounter at 0.4m to 0.8m bgl, to 14.0m bgl base depth. Proven thickness of 12.9m
		[redacted]	
		NGP2 – sand pocket at TP105 within Glacial Till	2.5 – 3.0m bgl, thickness of 0.5m
Solid Geology	Red brown and light grey **SANDSTONE** – medium strong to strong (locally weathered)	[redacted]	
	Grey **MUDSTONE and SILTSTONE**	NGP1	From 18.8m to 30.0m bgl mudstone, bnp. With a 1.07m band of siltstone from 22.63m bgl
		NGP2	14.5 – 25m bgl bnp
		[redacted]	
	COAL – bands within mudstone or siltstone	NGP1	Band within Mudstone from 21.26m to 21.49m bgl, thickness 0.23m
		NGP2	17.27 m to 17.59m bgl, thickness 0.32m

Notes
bnp = Base not proved

7.2 Below Ground Structures and Obstructions

Table 7.2 below presents a summary of the below ground structures and observations encountered within the exploratory holes.

Table 7.2 Below Ground Structures and Observations

Exploratory Hole	Site Area	Description	Depth (m bgl)
BH101A	NGP2	Borehole terminated on concrete obstruction	0.45
BH101B	NGP2	Borehole terminated on concrete obstruction	0.45
[redacted]			
TP102	NGP2	Trial pit terminated on concrete boulders	0.6
TP103	NGP2	Trial pit terminated on concrete walls with loose brick fill	0.7
TP103A	NGP2	Trial pit terminated on concrete boulder or slab	0.5

Exploratory Hole	Site Area	Description	Depth (m bgl)
TP104	NGP2	Concrete encountered and broken through	0.4 – 0.6

7.3 Visual and Olfactory Evidence of Contamination

Visual and olfactory observations of contamination, including tar, were recorded in Made Ground, natural strata and groundwater during the ground investigation. In addition, visual and olfactory evidence of contamination was noted in groundwater and to groundwater samples obtained during the three monitoring rounds. A summary of the key observations is provided in Tables 7.3, 7.4 and 7.5 below and illustrated on Drawing Nos. A074754-142-LDS-N-0049-06 and A074754-142-LDS-N-0049-07.

Table 7.3 Visual and Olfactory Observations of Contamination in Soils

Exploratory Hole	Site Area	Description of Observed Contamination*	Depth (m bgl)	
			Top	Base
Made Ground				
[redacted]				
TP102	NGP2	Moderate hydrocarbon odour and sheen	0.3	0.6
[redacted]				
TP105	NGP2	Strong hydrocarbon odour and sheen to water	0.5	0.8
[redacted]				
Alluvium				
[redacted]				
Glacial Till				
TP101	NGP1	Black staining	0.4	0.45
TP105	NGP2	Hydrocarbon odour and sheen	0.8	0.85

* Excludes observations of ash and other industrial and demolition/ construction materials

Table 7.4 Observations of Contamination in Groundwater during Drilling

Exploratory Hole	Site Area	Strata	Description of Observed Contamination	Depth (mbgl)	
				Top	Base
[redacted]					
TP105	NGP2	Made Ground	Strong HC odour and sheen to water	0.5	0.8

Table 7.5 Observations of Contamination in Groundwater during Monitoring

Exploratory Hole	Site Area	Strata	Description of Observed Contamination	Response Zone (m bgl)	
				Top	Base
Groundwater Monitoring Round 1 - 12/02/2013					
[redacted]					
Groundwater Monitoring Round 2 - 07/03/2013					
[redacted]					

7.4 Groundwater Observations

7.4.1 Depth to Groundwater

A summary of groundwater observations recorded during the investigation is presented within Table 7.6 below and the information is included within the appended borehole logs.

Table 7.6 Groundwater Observations during Investigation

Exploratory Hole	Area	Strata top	Strata base	Water strike		Inflow Rate
		m bgl	m bgl	m bgl	m AOD	
Made Ground						
HP102	NGP1	0.05	0.4	0.05	54.3	Steady
TP102	NGP2	0.0	0.6	0.2	51.7	Fast / steady
TP104	NGP2	0.0	0.4	0.2	51.9	Fast
TP105	NGP2	0.5	0.8	0.5	51.6	Fast - from SE
[redacted]						

Exploratory Hole	Area	Strata top	Strata base	Water strike		Inflow Rate
		m bgl	m bgl	m bgl	m AOD	
Alluvium						
[redacted]						
Glacial Till						
BH102	NGP2	1.0	2.5	0.60	51.66	Seepage
BH102	NGP2	2.5	3.0	3.00	49.26	Seepage
RBH102	NGP2	0.6	14.5	0.60	52.14	Moderate
RBH102	NGP2	0.6	14.5	1.10	51.64	Moderate
Coal Measures						
[redacted]						

A summary of groundwater levels recorded during the monitoring phase of the investigation, undertaken between July and September 2012, along with details of the installation and response zone are provided in Table 7.7 below. Full details of the groundwater monitoring rounds are contained on the groundwater monitoring data sheets held in Appendix G.

Table 7.7 Recorded Depth to Groundwater in Monitoring Wells

Site Area	Strata	Boreholes	Groundwater Depth	Groundwater Level
			(m bgl)	(m AOD)
NGP1	Glacial Till	BH1 - Destroyed	No installations available	
	Coal Measures	RBH101	16.29 - 16.32	38.54 - 38.57
NGP2	Made Ground	BH3 - Destroyed	No installations available	
	Glacial Till	BH2	4.34 - 4.41	47.82 - 47.89
	Glacial Till	BH102	1.24 - 1.25	51.01 - 51.02
	Coal Measures	RBH102	15.59 - 16.35	36.36 - 37.15
[redacted]				

7.4.2 Falling Head Permeability Testing

[redacted]

Table 7.8 Falling Head Test Summary

Exploratory Hole	Response Zone (mbgl)	General Strata Summary	Calculated Permeability (m/s)
Area – NGP3			
[redacted]			

7.5 Ground Gas Observations

A summary of gas readings recorded during the two monitoring rounds is presented in Table 7.9 below with full details presented on the gas monitoring data sheets held in Appendix G.

Table 7.9 Ground Gas Monitoring Summary

Exploratory Hole	Response Zone (mbgl)	Strata Monitored	%/vol			Max. Flow (l/hr)
			CH_4 (max)	CO_2 (max)	O_2 (min)	
NGP1						
RBH101	19.0 - 30.0	Coal Measures	0.1	0.1	19.1	0.4
NGP2						
BH2	3.0 - 6.9	Glacial Till	0.1	0.2	18.5	0.2
BH102	2.5 - 3.0	Sand pocket in Glacial Till	0.2	1.5	17.5	-0.5
RBH102	18.0 - 24.5	Coal Measures	0.0	0.2	18.3	-0.2
[redacted]						

8.0 Analytical Results

8.1 Soil, Soil Leachate and Groundwater Analysis

Summary tables containing soil, soil-leachate and water laboratory analysis results are presented in Appendix G.

8.2 QA/QC Analysis

The Shewhart charts provided within the QA/QC documentation for the investigation indicates that the laboratory analytical operating parameters were normal over the period of laboratory analysis.

Further QA/QC measures were undertaken in the form of laboratory analysis of 3No. water trip blanks and 4No. duplicate groundwater samples collected during the subsequent groundwater monitoring rounds as summarised below.

8.2.1 Duplicate Sample Analysis

Analysis of the duplicate groundwater sample data shows that, for all determinands that can be directly compared with the original sample (*i.e.*, recorded above detection limits in both samples). More than 67% were found to be within the set margins of precision. Table 8.1 contains a summary of the duplicate groundwater data.

Table 8.1 Duplicate Sample Analysis and Precision Data - Groundwater

Duplicate Sample	Sample No.	Description of Sample	No. of Comparable Parameters	No. of Results Outside ±30%	Percentage of Results Outside ±30%
[redacted]					
060313	BH2	Brown very silty, no odour/ no sheen	13	3	23
[redacted]					

On review of the above mentioned Shewhart Charts, and in light of the QA and QC the laboratory undertakes in order to maintain UKAS and MCERTS accreditation, it is considered unlikely that the concentrations beyond +30% of each other are indicative of laboratory error. The original and (blind) duplicate samples are by necessity different samples, and in spite of attempts made to produce similar samples, have differing silt / sand content, and where present NAPL content. Differing proportion of soils

or NAPL within the groundwater is likely to effect the concentrations of metals and hydrocarbons in the relative samples, such that the difference may be greater than 30%. In addition, for those determinands with very low detection limits (in the order of 50ppm to 0.01ppm) a slight difference in value between samples may mathematically produce a large proportional difference while the actual concentration may only differ by a few units within.

8.2.2 Trip Blank Analysis

Three trip blank samples were analysed during groundwater monitoring rounds, the fourth was broken in transit. No elevated concentrations were recorded within the trip blank samples, and the majority of determinands were recorded below levels of detection in one or both monitoring rounds.

9.0 References

The following reports and documents are referenced:

1. **WYG 2013** *Data Review, Bradford Road, Miles Platting, Manchester* Reference: A071420-DR-V1
2. **WYG 2012** *Draft Data Review, Bradford Road Gasholder Station and Surplus Land, Manchester* Reference: A074754-28-DR-V1
3. **WYG October 2012**, *Extended Phase 1 Habitat Survey Bradford Road Gasholder Station, Bradford, Manchester* Reference: Manchester32\A74754-28 Bradford\OUTPUTS
4. **WSP 2003** *Interpretative Site Investigation Report Surplus Land and Holder Site Bradford Road,* Reference:13010222
5. **Coal Authority May and August 2012** *Non Residential Mining Reports for Gasholder Station and Surplus Land,* Reference: 51000095101008 and 51000151137001 (obtained and included as part of item 2)
6. **Envirocheck Report , Issued May 2012** 39314891_1_1 / A74754-28 (obtained and included as part of item 2);
7. **National Grid Archive Information** (obtained and included as part of item 2);
8. **British Geological Survey (BGS)** Sheet 85 Solid Edition (1:50,000) and SJ89NE (1:10,560);
9. Environment Agency website (www.environment-agency.gov.uk);
10. **NGP document** '*Assessment and Remediation Core Specification'* (Version 2.0, January 2012) with specific reference to Appendix B9 (Site Investigation Reporting).
11. **BSi** *BS5930:1999+A2:2010 Code of Practice for Site Investigations*
12. **BSi** *BS10175: 2011 Investigation of Potentially Contaminated Sites – Code of Practice*

APPENDICES

Appendix A1 – WYG Drawings

DO NOT SCALE: CONTRACTOR TO CHECK ALL DIMENSIONS AND REPORT ANY OMISSIONS OR ERRORS



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REV	DESCRIPTION	BY	CHK	APP	DATE

ARNDALE COURT
HEADINGLEY
LEEDS
LS6 2UJ

TEL: +44 (0)113 278 7111
FAX: +44 (0)113 275 0623
e-mail: enviro@wyg.com

Client:
NATIONAL GRID PROPERTY HOLDINGS LTD

Project: A074754-142
BRADFORD ROAD
MANCHESTER
LOCATION CODE: 0049

Drawing Title:
SITE LOCATION PLAN

Scale @ A4	Drawn	Date	Checked	Date	Approved	Date
1:20,000	PMC	12.08.14	SN	12.08.14	RG	12.08.14

Project No.	Office	Type	Drawing No.	Revision
A074754-142	LDS	N	0049-01	

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DO NOT SCALE: CONTRACTOR TO CHECK ALL DIMENSIONS AND REPORT ANY OMISSIONS OR ERRORS

KEY

- NATIONAL GRID PROPERTY HOLDINGS BOUNDARY
- NATIONAL GRID GAS BOUNDARY
- AREA BOUNDARY
- ABOVE GROUND MP GAS MAIN
- CONCRETE
- WOODED AREA

THE MEWS
BRADFORD ROAD
TCBs
54.9m
Cycle Lane
Cycle Lane
Fire S
SD
Lodge
VIADUCT
GRASS/MOSS
GRAVEL
GASHOLDER
NGP 1
GRAVEL
GRAVEL
FORMER BOILER
FORMER CHIMNEY
BROXTON STREET
TCB
54.3m
NEW VIADUCT STREET
VIADUCT
GRAVEL
TARMAC
ROUGH VEGETATION & UNEVEN GROUND
BOGGY
NGP 2
BARKING STREET
51.2
STORAGE BAYS
SAXON STREET HIGH PRESSURE COMPOUND
MANCHESTER CITY ESTATES (FOOTBALL CLUB) CAR PARKS
Mast
NEW VIADUCT STREET
VIADUCT
GRAVEL
GRAVELLY CONCRETE
57.0m
STORAGE BAYS
Subway
Lighting Tower
Cycle Lane
ALAN TURING WAY
Lighting Tower
Car Park
Lighting Tower
Lighting Tower
Car Park
Lighting Tower
Sportcity Way
55.7m
MP.5
El Sub Sta
BRADFORD
SL
Tennis Courts
Tennis Courts
5.4m
NEW VIADUCT STREET
Towing Path
Ashton Canal
FB
Lock
Weir
Overflow
[redacted]
Scale (metres)
0 20 40 60 80 100

REV	DESCRIPTION	BY	CHK	APP	DATE

Client:

NATIONAL GRID PROPERTY HOLDINGS LTD

ARNDALE COURT
HEADINGLEY
LEEDS
LS6 2UJ

TEL: +44 (0)113 278 7111
FAX: +44 (0)113 275 0623
e-mail: enviro@wyg.com

Project: A074754-142

BRADFORD ROAD
MANCHESTER
LOCATION CODE: 0049

Drawing Title:

SITE LAYOUT PLAN

Scale @ A1	Drawn	Date	Checked	Date	Approved	Date
1:625	PMC	12.08.14	SN	12.08.14	RG	12.08.14

Project No.	Office	Type	Drawing No.	Revision
A074754-142	LDS	N	0049-02	

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N

KEY

- NATIONAL GRID PROPERTY HOLDINGS BOUNDARY
- NATIONAL GRID GAS BOUNDARY
- APPROXIMATE LINE OF CULVERT
- RSK SERVICE CLEARANCE AREA

SERVICES (OVERLAIN FROM PLANS)

- LPB — LP GAS BELOW GROUND
- IPB — IP GAS BELOW GROUND
- FS — FOUL SEWER
- CS — COMBINED SEWER
- SW — SURFACE WATER SEWER
- WM — WATER MAINS
- HVB — ELECTRICITY HV BELOW GROUND
- BTA — BT ABOVE GROUND
- BTB — BT BELOW GROUND
- CAB — CABLE / FIBRE OPTIC BELOW GROUND

SERVICES (SURVEYED ON SITE RSK UTILITY CLEARANCE DRAWING 293489-Fig-01 01.01.2012)

- SW — SURFACE WATER DRAIN
- RT — RADAR TRACE
- UB — UNKNOWN (METALLIC)

SERVICES (SURVEYED ON SITE LANDSCOPE SURVEY DRAWING 1633_200_9 JULY 2014)

- MPB — MP GAS BELOW GROUND
- MPA — MP GAS ABOVE GROUND
- IPB — IP GAS BELOW GROUND
- IPA — IP GAS ABOVE GROUND
- HPB — HP GAS BELOW GROUND
- HPA — HP GAS ABOVE GROUND
- LVB — LV ELECTRIC BELOW GROUND

NOTE
APPROXIMATE LINE OF CULVERT TAKEN FROM HISTORICAL PLAN - LANCASHIRE AND FURNESS, 1893 1:2,500 SCALE.

[redacted]

0 20 40 60 80 100

REV	DESCRIPTION	BY	CHK	APP	DATE

Client:
NATIONAL GRID PROPERTY HOLDINGS LTD

ARNDALE COURT
HEADINGLEY
LEEDS
LS6 2UJ

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FAX: +44 (0)113 275 0623
e-mail: enviro@wyg.com

Project: A074754-142

BRADFORD ROAD
MANCHESTER
LOCATION CODE: 0049

Drawing Title:
SERVICE LOCATION PLAN

Scale @ A1	Drawn	Date	Checked	Date	Approved	Date
1:750	PMC	26.03.13	RP	04.04.13	JB	04.04.13

Project No.	Office	Type	Drawing No.	Revision
A074754-142	LDS	N	0049-03	

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KEY

NATIONAL GRID PROPERTY HOLDINGS BOUNDARY

NATIONAL GRID GAS BOUNDARY

HISTORICAL LAYOUT

1893
1908
1922
1948
1951
1956
1958
1974
1992

HISTORICAL STRUCTURES

1893
A1. UNKNOWN STRUCTURE
A2. UNKNOWN STRUCTURE
A3. RAILWAY
A4. UNKNOWN STRUCTURE
A5. APPROXIMATE LINE OF CULVERTED RIVER MEDLOCK

1908
B1. UNKNOWN STRUCTURE

1922
C1. GASHOLDER (OPERATIONAL)
C2. AREA OF UNDERGROUND INLET TO GASHOLDER

1948
D1. COKE OFFICE
D2. RAILWAY
D3. UNKNOWN STRUCTURE
D4. UNKNOWN STRUCTURE
D5. UNKNOWN STRUCTURE
D6. HORIZONTAL RETORT HOUSE
D7. RAILWAY EXTENSION
D8 HORIZONTAL RETORT HOUSE
D9. UNKNOWN STRUCTURE
D10. OVERHEAD TANKS
D11. TANK
D12. RAILWAY
D13. CANTEEN & MESS ROOM

1951
E1. RAILWAY

1956
F1. RETORT HOUSE D
F2. UNKNOWN STRUCTURE
F3. RETORT HOUSE C
F4. COOLING TOWER & PUMP HOUSE
F5. VERTICAL RETORT HOUSE
F6. CAL PLANT
F7. UNKNOWN STRUCTURE
F8. UNKNOWN STRUCTURE
F9. POTENTIAL EFFLUENT TREATMENT/STORAGE
F10. MESS ROOM
F11. BOILER HOUSE
F12. MESS ROOM
F13. UNKNOWN STRUCTURE
F14. UNKNOWN STRUCTURE

1958
G1. COAL BUNKER
G2. TAR & LIQUOR STORAGE WELL (1878-81)
G3. UNKNOWN STRUCTURE
G4. POTENTIAL EFFLUENT TREATMENT/STORAGE

1974
H1. SERVICES TO PLANT
H2. SERVICES TO PLANT
H3. EFFLUENT TANK
H4. INTERCEPTORS
H5. BOILER HOUSE

1992
I1. SAXON STREET HIGH PRESSURE PRS COMPOUND

NOTES:
1. THE MAJORITY OF HISTORICAL OFF SITE STRUCTURES ARE NOT INCLUDED ON THIS DRAWING. ONLY THOSE ADJACENT TO OR CROSSING THE SITE BOUNDARY
2. THE LOCATION OF HISTORICAL STRUCTURES VARIES BETWEEN NATIONAL GRID ARCHIVE DRAWINGS & ORDNANCE SURVEY MAPS

Scale (metres)
0 20 40 60 80 100

REV	DESCRIPTION	BY	CHK	APP	DATE

Client:
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ARNDALE COURT
HEADINGLEY
LEEDS
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FAX: +44 (0)113 275 0623
e-mail: enviro@wyg.com

Project: A074754-142

BRADFORD ROAD
MANCHESTER
LOCATION CODE: 0049

Drawing Title:
HISTORICAL LAYOUT PLAN

Scale @ A1	Drawn	Date	Checked	Date	Approved	Date
1:750	PMC	12.08.14	SN	12.08.14	RG	12.08.14

Project No.	Office	Type	Drawing No.	Revision
A074754-142	LDS	N	0049-04	

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N

DO NOT SCALE: CONTRACTOR TO CHECK ALL DIMENSIONS AND REPORT ANY OMISSIONS OR ERRORS

KEY

NATIONAL GRID PROPERTY HOLDINGS BOUNDARY

NATIONAL GRID GAS BOUNDARY

WYG SITE INVESTIGATION 2012

TRIAL PIT

CABLE PERCUSSION BOREHOLE

CABLE PERCUSSION BOREHOLE WITH ROTARY FOLLOW-ON

WSP SITE INVESTIGATION 2003

TRIAL PIT

BOREHOLE

HAND DUG PIT

NOTE:
BH102S NOT INSTALLED

THE MEWS
BRADFORD ROAD
TCBs
Cycle Lane
Cycle Lane
Fire Station
Warehouse
54.9m
BROXTON STREET
NEW VIADUCT STREET
BARKING STREET
NEW VIADUCT STREET
Mast
4.3m
57.0m
Subway
Gas Holder
Lodge
Cycle Lane
ALAN TURING WAY
Lighting Tower
Car Park
Lighting Tower
Lighting Tower
Car Park
Lighting Tower
Sportcity Way
El Sub Sta
BRADFORD
Tennis Courts
Tennis Courts
Tennis Centre
Joe Mercer Way
Towing Path
Ashton Canal
FB
Lock
Weir
Overflow
MP.5

RBH101
HP1
BH1
HP102
GH1
HP101
GH2
TP101
TP1
TP2
BH2
TP8
HP103
TP102
TP104
RBH102
TP4
BH101B
TP103
TP103A
BH101A
BH101
TP7
TP105
BH102
TP5
TP6
BH3

Scale (metres)
0 20 40 60 80 100

[redacted]

REV	DESCRIPTION	BY	CHK	APP	DATE

Client:

NATIONAL GRID PROPERTY HOLDINGS LTD

ARNDALE COURT
HEADINGLEY
LEEDS
LS6 2UJ

TEL: +44 (0)113 278 7111
FAX: +44 (0)113 275 0623
e-mail: enviro@wyg.com

Project: A074754-142

BRADFORD ROAD
MANCHESTER
LOCATION CODE: 0049

Drawing Title:

EXPLORATORY HOLE LOCATION PLAN

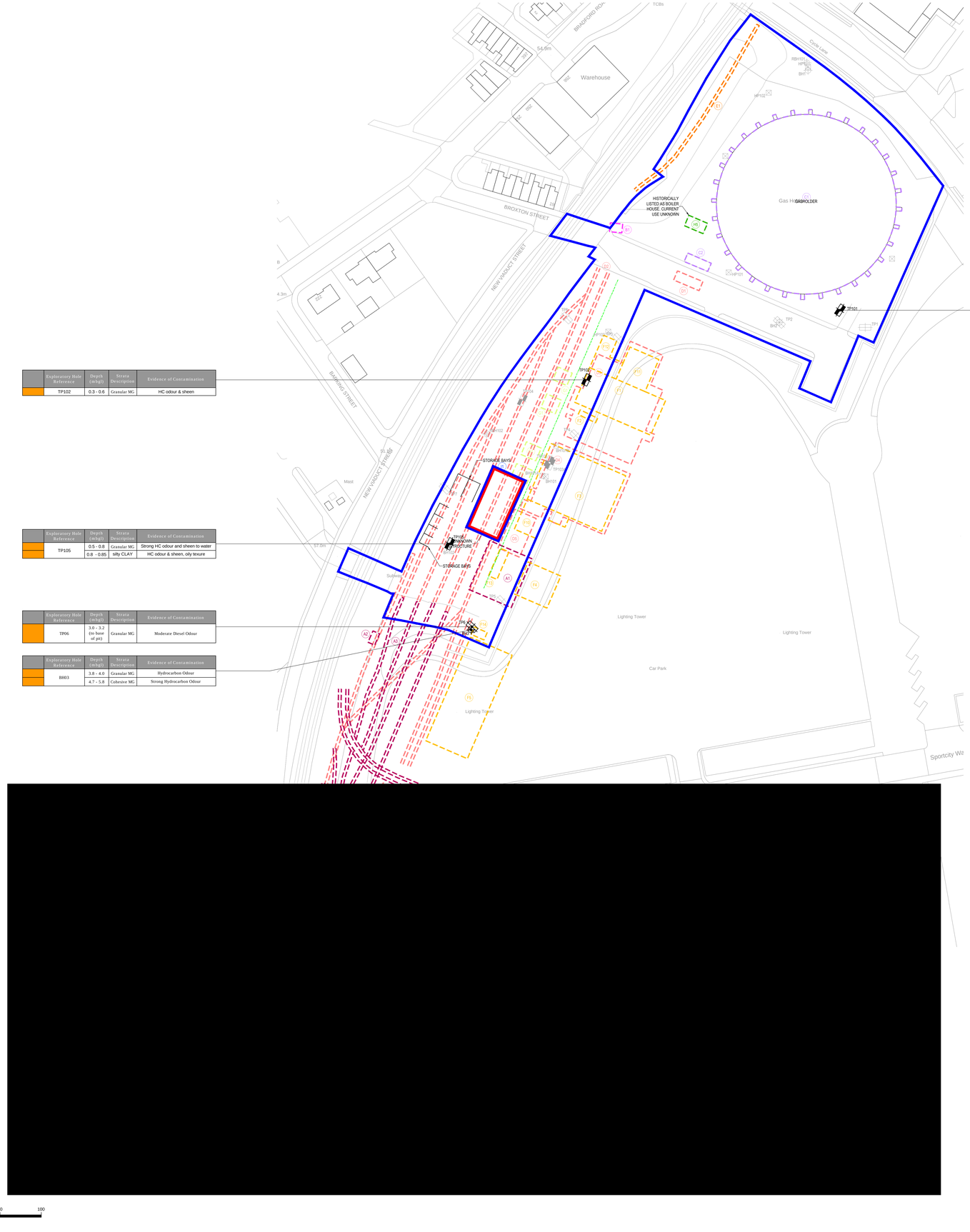
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Project No.	Office	Type	Drawing No.	Revision
A074754-142	LDS	N	1424-05	

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	Exploratory Hole Reference	Depth (mbgl)	Strata Description	Evidence of Contamination
	TP101	0.4 - 0.45	GT	Black staining

	Exploratory Hole Reference	Depth (mbgl)	Strata Description	Evidence of Contamination
	TP102	0.3 - 0.6	Granular MG.	HC odour & sheen

	Exploratory Hole Reference	Depth (mbgl)	Strata Description	Evidence of Contamination
	TP105	0.5 - 0.8	Granular MG.	Strong HC odour and sheen to water
		0.8 - 0.85	silty CLAY	HC odour & sheen, oily texure

	Exploratory Hole Reference	Depth (mbgl)	Strata Description	Evidence of Contamination
	TP06	3.0 - 3.2 (to base of pit)	Granular MG	Moderate Diesel Odour

	Exploratory Hole Reference	Depth (mbgl)	Strata Description	Evidence of Contamination
	BH03	3.8 - 4.0	Granular MG	Hydrocarbon Odour
		4.7 - 5.8	Cohesive MG	Strong Hydrocarbon Odour

[redacted]

Scale (metres)
0 20 40 60 80 100

KEY

- NATIONAL GRID PROPERTY HOLDINGS BOUNDARY
- NATIONAL GRID GAS BOUNDARY
- OVERHEAD MP GAS MAIN

WYG SITE INVESTIGATION 2012

- TRIAL PIT
- CABLE PERCUSSION BOREHOLE
- CABLE PERCUSSION BOREHOLE WITH ROTARY FOLLOW ON

WSP SITE INVESTIGATION 2003

- TRIAL PIT
- BOREHOLE
- HAND DUG PIT

HISTORICAL LAYOUT

- 1893
- 1908
- 1922
- 1948
- 1951
- 1956
- 1958
- 1974
- 1992

HISTORICAL STRUCTURES

1893
A1. UNKNOWN STRUCTURE
A2. UNKNOWN STRUCTURE
A3. RAILWAY
A4. UNKNOWN STRUCTURE
A5. APPROXIMATE LINE OF CULVERTED RIVER MEDLOCK

1908
B1. UNKNOWN STRUCTURE

1922
C1. GASHOLDER (OPERATIONAL)
C2. UNKNOWN STRUCTURE

1948
D1. COKE OFFICE
D2. RAILWAY
D3. UNKNOWN STRUCTURE
D4. UNKNOWN STRUCTURE
D5. UNKNOWN STRUCTURE
D6. HORIZONTAL RETORT HOUSE
D7. RAILWAY EXTENSION
D8 HORIZONTAL RETORT HOUSE
D9. UNKNOWN STRUCTURE
D10. OVERHEAD TANKS
D11. TANK
D12 RAILWAY
D13. CANTEEN & MESS ROOM

1951
E1. RAILWAY

1956
F1. RETORT HOUSE D
F2. UNKNOWN STRUCTURE
F3. RETORT HOUSE C
F4. COOLING TOWER & PUMP HOUSE
F5. VERTICAL RETORT HOUSE
F6. CAL PLANT
F7. UNKNOWN STRUCTURE
F8. UNKNOWN STRUCTURE
F9. UNKNOWN STRUCTURE
F10. MESS ROOM
F11. BOILER HOUSE
F12. MESS ROOM
F13. UNKNOWN STRUCTURE
F14. UNKNOWN STRUCTURE

1958
G1. COAL BUNKER
G2. TAR & LIQUOR STORAGE WELL
G3. UNKNOWN STRUCTURE
G4. UNKNOWN STRUCTURE

1974
H1. SERVICES TO PLANT
H2. SERVICES TO PLANT
H3. EFFLUENT TANK
H4. UNKNOWN STRUCTURE
H5. BOILER HOUSE

1992
I1. UNKNOWN STRUCTURE

NOTES:
1. THE MAJORITY OF HISTORICAL OFF SITE STRUCTURES ARE NOT INCLUDED ON THIS DRAWING. ONLY THOSE ADJACENT TO OR CROSSING THE SITE BOUNDARY
2. THE LOCATION OF HISTORICAL STRUCTURES VARIES BETWEEN NATIONAL GRID ARCHIVE DRAWINGS & ORDNANCE SURVEY MAPS

VISUAL & OLFACTORY EVIDENCE OF CONTAMINATION

- FREE PRODUCT OBSERVED
- MODERATE TO STRONG ODOUR / RESIDUAL STAINING
- SLIGHT ODOURS
- SPENT LIME
- ORGANIC ODOUR

REV	DESCRIPTION	BY	CHK	APP	DATE

Client:
NATIONAL GRID PROPERTY HOLDINGS LTD

ARNDALE COURT
HEADINGLEY
LEEDS
LS6 2UJ

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FAX: +44 (0)113 275 0623
e-mail: enviro@wyg.com

Project: A074754-142

GASHOLDER STATION AND SURPLUS LAND
BRADFOR ROAD, GREATER MANCHESTER
LOCATION CODE: 0049

Drawing Title:
VISUAL & OLFACTORY EVIDENCE OF CONTAMINATION - SOILS

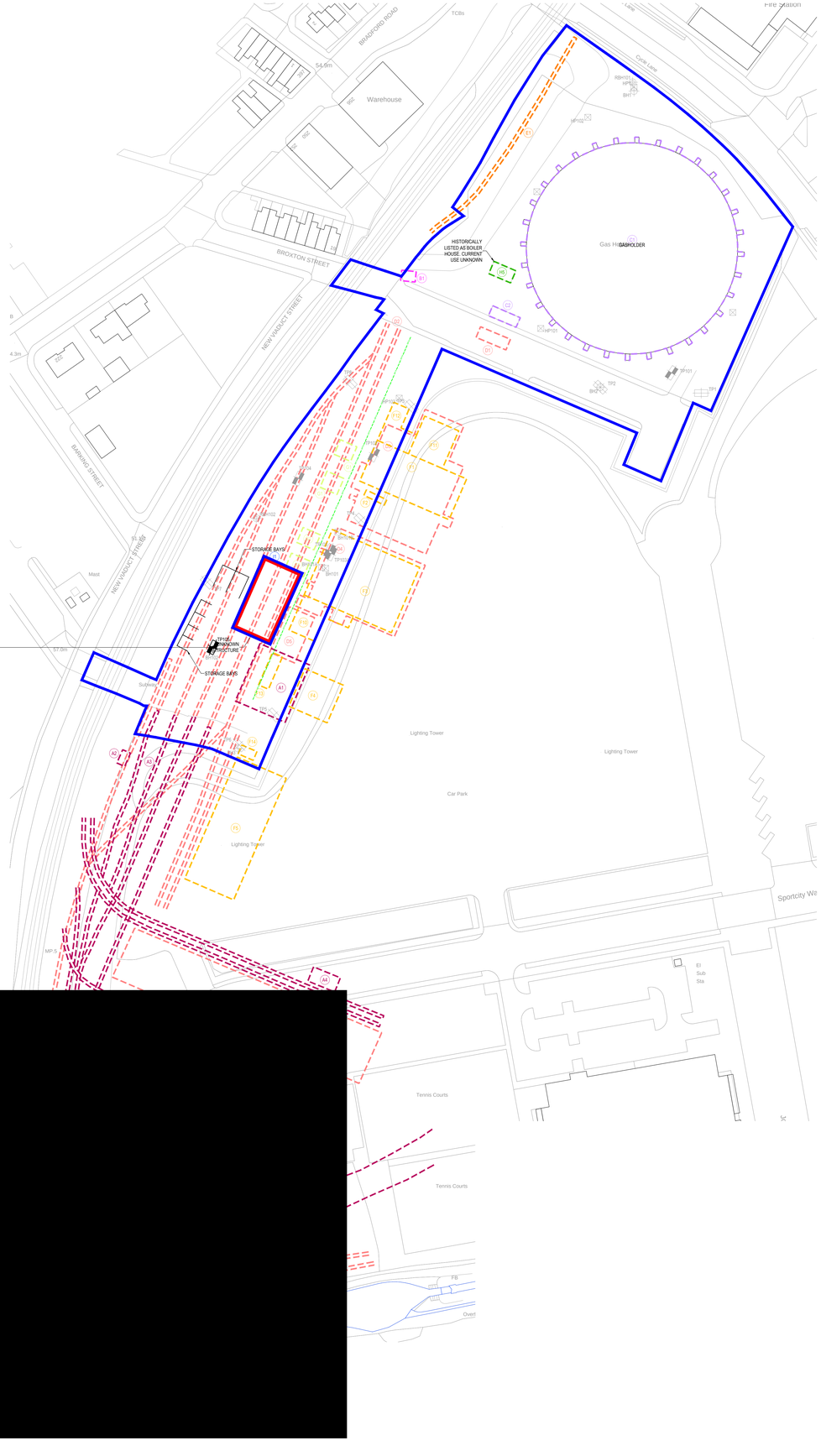
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Project No.	Office	Type	Drawing No.	Revision
A074754-142	LDS	N	1424-06	

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N



	Exploratory Hole	Strata	Description of Observed Contamination	Depth (mbgl)	
				Top	Base
	TP105	MG - G	Strong hydrocarbon odour and sheen to water	0.5	0.8

[redacted]

0 20 4

KEY

- NATIONAL GRID PROPERTY HOLDINGS BOUNDARY
- NATIONAL GRID GAS BOUNDARY
- OVERHEAD MP GAS MAIN

WYG SITE INVESTIGATION 2012

- TRIAL PIT
- CABLE PERCUSSION BOREHOLE
- CABLE PERCUSSION BOREHOLE WITH ROTARY FOLLOW-ON

WSP SITE INVESTIGATION 2003

- TRIAL PIT
- BOREHOLE
- HAND DUG PIT

HISTORICAL LAYOUT

- 1893
- 1908
- 1922
- 1948
- 1951
- 1956
- 1958
- 1974
- 1992

HISTORICAL STRUCTURES

1893
A1. UNKNOWN STRUCTURE
A2. UNKNOWN STRUCTURE
A3. RAILWAY
A4. UNKNOWN STRUCTURE
A5. APPROXIMATE LINE OF CULVERTED RIVER MEDLOCK

1908
B1. UNKNOWN STRUCTURE

1922
C1. GASHOLDER (OPERATIONAL)
C2. UNKNOWN STRUCTURE

1948
D1. COKE OFFICE
D2. RAILWAY
D3. UNKNOWN STRUCTURE
D4. UNKNOWN STRUCTURE
D5. UNKNOWN STRUCTURE
D6. HORIZONTAL RETORT HOUSE
D7. RAILWAY EXTENSION
D8. HORIZONTAL RETORT HOUSE
D9. UNKNOWN STRUCTURE
D10. OVERHEAD TANKS
D11. TANK
D12. RAILWAY
D13. CANTEEN & MESS ROOM

1951
E1. RAILWAY

1956
F1. RETORT HOUSE D
F2. UNKNOWN STRUCTURE
F3. RETORT HOUSE C
F4. COOLING TOWER & PUMP HOUSE
F5. VERTICAL RETORT HOUSE
F6. CAL PLANT
F7. UNKNOWN STRUCTURE
F8. UNKNOWN STRUCTURE
F9. UNKNOWN STRUCTURE
F10. MESS ROOM
F11. BOILER HOUSE
F12. MESS ROOM
F13. UNKNOWN STRUCTURE
F14. UNKNOWN STRUCTURE

1958
G1. COAL BUNKER
G2. TAR & LIQUOR STORAGE WELL
G3. UNKNOWN STRUCTURE
G4. UNKNOWN STRUCTURE

1974
H1. SERVICES TO PLANT
H2. SERVICES TO PLANT
H3. EFFLUENT TANK
H4. UNKNOWN STRUCTURE
H5. BOILER HOUSE

1992
I1. UNKNOWN STRUCTURE

NOTES:
1. THE MAJORITY OF HISTORICAL OFF SITE STRUCTURES ARE NOT INCLUDED ON THIS DRAWING, ONLY THOSE ADJACENT TO OR CROSSING THE SITE BOUNDARY
2. THE LOCATION OF HISTORICAL STRUCTURES VARIES BETWEEN NATIONAL GRID ARCHIVE DRAWINGS & ORDNANCE SURVEY MAPS

VISUAL & OLFACTORY EVIDENCE OF CONTAMINATION

- FREE PRODUCT OBSERVED
- MODERATE TO STRONG ODOUR / RESIDUAL STAINING
- SLIGHT ODOURS
- SPENT LIME
- ORGANIC ODOUR
- DURING EXCAVATION
- DURING WATER MONITORING

REV	DESCRIPTION	BY	CHK	APP	DATE

Client:
NATIONAL GRID PROPERTY HOLDINGS LTD

ARNDALE COURT
HEADINGLEY
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e-mail: enviro@wyg.com

Project: A074754-142

BRADFORD ROAD
MANCHESTER
LOCATION CODE: 0049

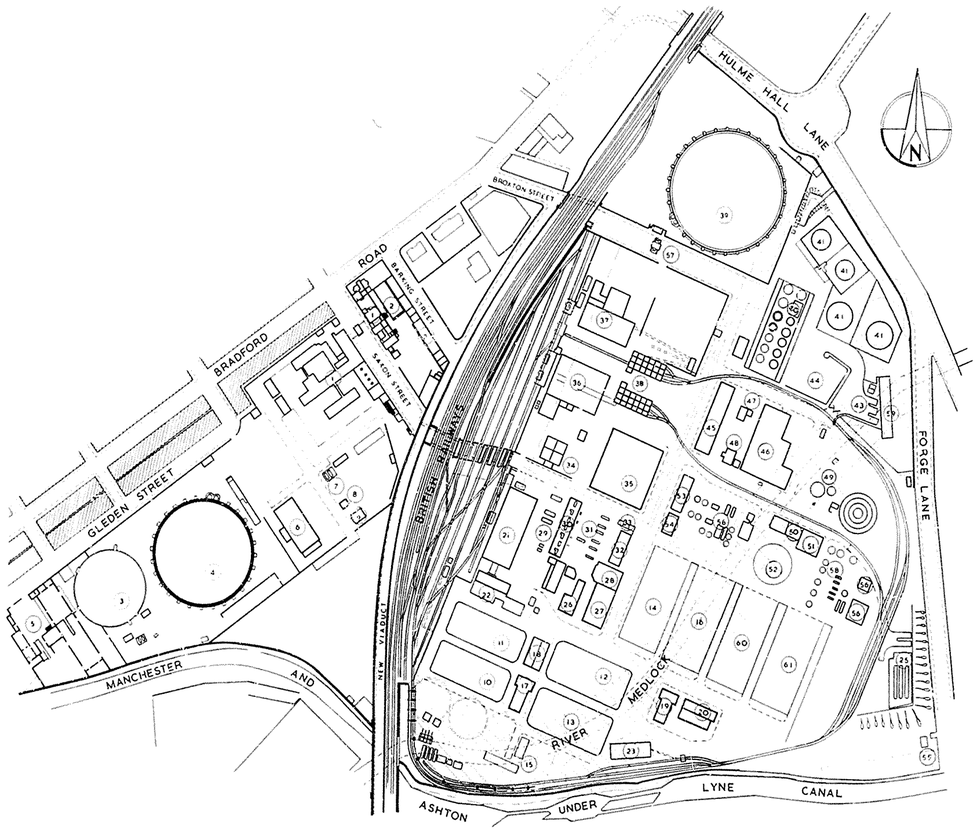
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VISUAL & OLFACTORY EVIDENCE OF CONTAMINATION - GROUNDWATER

Scale @ A0	Drawn	Date	Checked	Date	Approved	Date
1:750	PMC	12.08.14	SN	12.08.14	RG	12.08.14

Project No.	Office	Type	Drawing No.	Revision
A074754-142	LDS	N	0049-07	

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Appendix A2 – Third Party Drawings



1 ADMINISTRATION
2 TRANSPORT DEPT
3 5 MILL GASHOLDER
4 7 MILL GASHOLDER
5 SALES & SERVICE DEPOT
6 COMPRESSOR HOUSE
7 OIL TANKS
8 COOLING TOWER
9 SUB-STATION
10 H.P. PLANT 1
11 " " 2
12 " " 3
13 " " 4
14 " " 5
15 SERVICES TO PLANTS 1 2 3 & 4
15 SERVICES TO PLANT 5
17 CONTROL ROOM 1 2 3 & 4
18 SWITCH ROOM 1 2 3 & 4
19 CONTROL ROOM 5
20 SWITCH ROOM 5
21 'E' RETORT HOUSE
22 COKE BAGGING PLATFORM
23 'A' HOUSE COKE HOPPERS
24
25 LPG STORAGE TANKS
26 SWITCH GEAR & CONTROL ROOM
27 ALTERNATOR HOUSE
28 BOILER HOUSE
29 CONDENSERS
30 EXHAUSTERS
31 SCRUBBERS
32 JOINERS SHOP
33 AMBULANCE ROOM
34 COOLING TOWERS
35 STORES & FITTING SHOP
36 'C' RETORT HOUSE
37 'D' RETORT HOUSE
38 COKE SCREENS
39 10 MILL GASHOLDER
40 TOWER PURIFIERS
41 NAPHTHA STORAGE TANKS
42
43 NAPHTHA OFF LOAD
44 OXIDE
45 STORES
46 C.W.G. PLANT
47 C.W.G. COOLER & PUMP HOUSE
48 CALORIMETER
49 TAR WELLS
50 SUB-STATION
51 BOILER HOUSE
52 230,000 CU.FT. GASHOLDER
53 CONTROL ROOM
54 OFFICIAL TEST ROOM
55 SUB-STATION
56 COOLING TOWERS
57 WEIGHBRIDGE
58 U.C.I. PLANT
59 NAPHTHA RECEPTION
60 H.P. PLANT 6
61 " " 7

NORTH WESTERN GAS BOARD
Technical & Planning Division

BRADFORD ROAD

PLAN OF WORKS

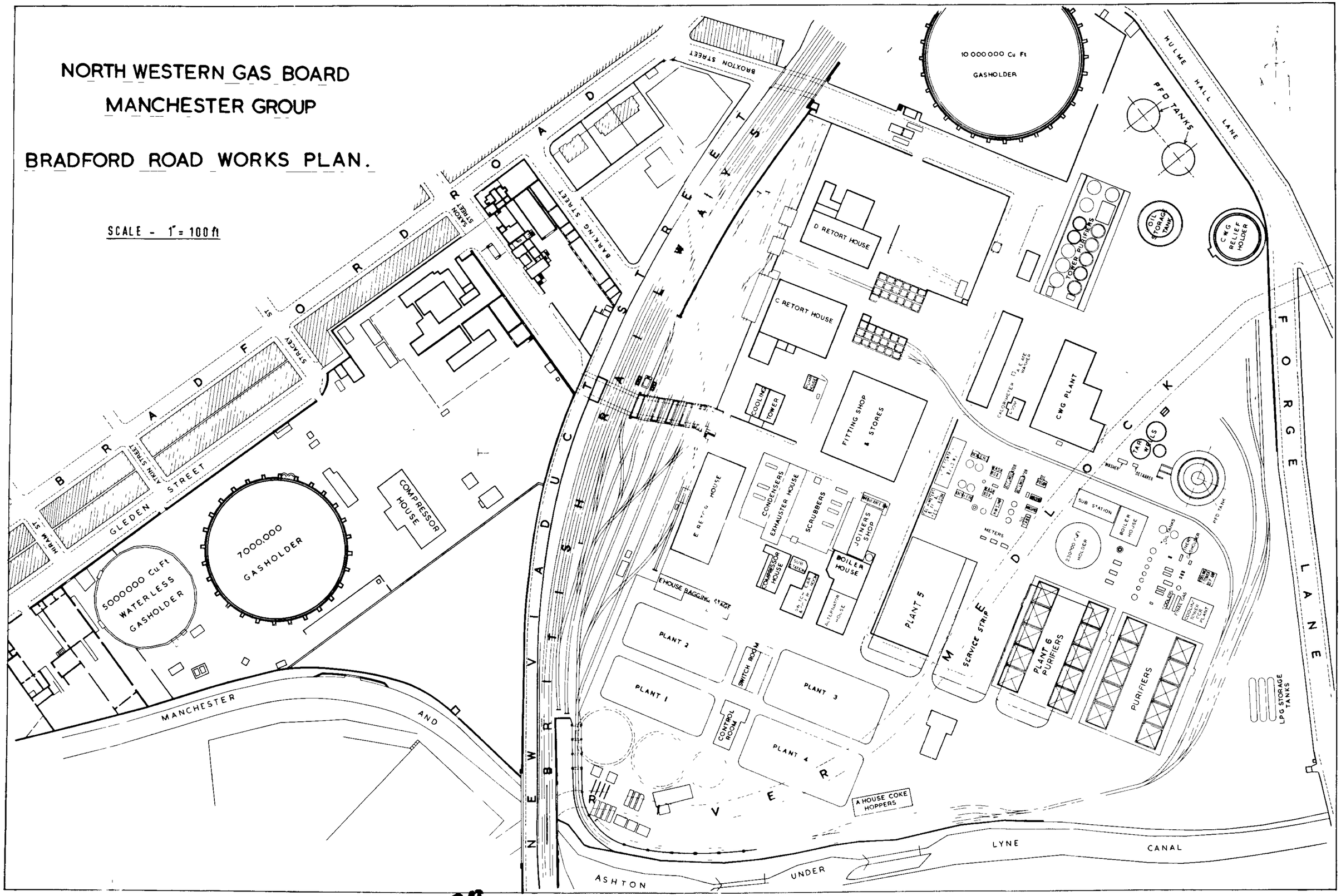
PHOTOCOPY

DRAWING No 12383

NORTH WESTERN GAS BOARD
MANCHESTER GROUP

BRADFORD ROAD WORKS PLAN.

SCALE - 1" = 100 ft



3738

3738/SL/1/A.1

411/GS/001 MANCHESTER

30/09/96 CAD/3738_1 A3

411/gs/001

NOTE.
THIS DRAWING HAS BEEN PREPARED FROM MANCHESTER AREA - WORKS PLAN, DRAWING No. DMA 997, H.Q. WORKS PLAN & DRAWING No. 12383. (NEITHER WORKS PLAN HAS A No.)

N

BRADFORD ROAD

BROXTON STREET

SPACEY STREET

GLEDEN STREET

ATHOLL ST.

BARLING STREET

STANLEY STREET

STANLEY ROAD

MANCHESTER AND SALFORD JUNCTION AND NEWTON BRIDGE CANAL

ASHTON UNDER LYNE CANAL

HULME HALL LANE

FORGE LANE

4 GASHOLDER TANKS EACH 140 FT. DIA. X 30 FT. DEEP FILLED IN 1930.

L.P. MAIN TO DISTRICT GOVERNOR

L.P. MAIN TO DISTRICT GOVERNOR

TRANSFER TO DISTRICT

30" M.P. MAIN TO ROCHDALE RD. HOLDER STATION

24" M.P. MAIN TO ROCHDALE RD.

24" M.P. MAIN TO SOUTH M/C

30" I.P. MAIN TO GAYTHORN TOWN GAS

24" M.P. FROM PARTINGTON

16" M.P. TO GAYTHORN

18" M.P. RING MAIN

12" M.P. MAIN TO FAILSWORTH

30" I.P. TO GAYTHORN TOWN GAS.

16" M.P. MAIN TO DENTON

36" M.P. MAIN TO GAYTHORN

36" I.P. MAIN TO GAYTHORN

24" M.P. MAIN TO SOUTH M/C TOWN'S GAS

24" M.P. MAIN TO ROCHDALE RD.

30" I.P. MAIN TO ROCHDALE RD. HOLDER STATION

16" M.P. MAIN TO DENTON / STOCKPORT

16" I.P. MAIN TO HOLLINWOOD, MORTON, BLACKLEY NAT. GAS.

12" NAT. GAS SHP MAIN FROM FAILSWORTH.

UNDERGROUND INLET & OUTLETS ISOLATED JULY 1973.

50 FT. DIA. X 20 FT. DEEP FILLED IN 1951

50 FT. SQ. X 12 FT. DEEP FILLED IN 1972.

20 FT. DIA. X 16 FT. DEEP FILLED IN 1971.

20 FT. DIA. X 16 FT. DEEP

35 FT. DIA. X 20 FT. DEEP FILLED IN 1972.

20 FT. DIA. X 20 FT. DEEP FILLED IN 1972.

105 FT. DIA. X 17 FT. DEEP.

102 FT. DIA. X 20 FT. DEEP.

73 FT. DIA. X 20 FT. DEEP.

CONCRETED 20" M.P. MAIN

12" NAT. GAS TO USE (BOUNDARY LIGHT UNIT)

UP MAIN TO HOLDER

BOUNDARY LINE

THIS LAND OWNED BY RICHARD JOHNSONS & NEPHEW

N°2. PLANT.

N° 1 PLANT.

N°3. PLANT.

N°4 PLANT.

N°5. PLANT.

LEGEND

	ABOVE GROUND	BELOW GROUND
24" M.P. MAIN TO SOUTH M/C		
15" M.P. MAINS TO DENTON, DROYLSDEN & HOLLINWOOD		
36" I.P. MAIN TO GAYTHORN & 30" I.P. MAIN TO ROCHDALE RD.		
HOLDER OUTLET MAINS		
HOLDER INLET MAINS		
L.P. DISTRICT MAINS		
S.H.P. MAINS TO GAYTHORN & DENTON		
S.H.P. MAINS FROM PARTINGTON & FAILSWORTH, & TO MIDDLETON & ROCHDALE RD.		
6" NAPHTHA FEEDSTOCK		
18" H.P. RING MAINS		

SCALE IN METRES 5 0 10 20 30 40 50 60 70 80 90 100

SCALE IN FEET 10 0 50 100 150 200 250 300

LEGEND

1. ADMINISTRATION
2. No 3 STORE
3. No 4 HOLDER (5 MILL. CU.FT.)
4. No 1 HOLDER (7 MILL. CU.FT.)
5. C.W.G. RELIEF HOLDER
6. COMPRESSOR HOUSE
7. OIL TANKS
8. COOLING TOWERS
9. SUB STATIONS
10. H.P. PLANT 1
11. " " 2
12. " " 3
13. " " 4
14. " " 5
15. SERVICES TO PLANTS 1,2,3 & 4.
16. SERVICES TO PLANT 5
17. CONTROL ROOM 1,2,3 & 4.
18. SWITCH ROOM
19. CONTROL ROOM 5
20. SWITCH ROOM 5
21. BOILER HOUSES FOR HOLDER ANTI-FREEZE 1 & 2.
22. H.P. GOVERNOR FARM
23. 'A' HOUSE COKE HOPPERS
24. NAPHTHA RECEPTION
25. L.P.G. STORAGE TANKS
26. TAR WELLS 1,2 & 3. (FILLED 1977-78)
27. ALTERNATOR HOUSE
28. BOILER HOUSE
29. MIRRLEES - BLACKSTONE ENGINE
30. BOOSTER HOUSE
31. METHANE RECEPTION
32. JOINERS SHOP
33. AMBULANCE ROOM
34. PROPOSED INCINERATOR
35. STORES & FITTING SHOP
36. PURIFIERS (EMPTY)
37. PURIFIERS (IN USE)
38. U.G.I. PLANT
39. No. 2 HOLDER (10 MILL. CU.FT.) N.G.
40. WEIGHBRIDGE
41. NAPHTHA STORAGE TANKS 1,2 & 3.
42. OFFICIAL TEST ROOM
43. NAPHTHA OFF LOAD
44. OXIDE STORAGE AREA
45. No. 2 STORE
46. C.W.G. PLANT
47. CONTROL ROOM (U.G.I.)
48. HOLDER (230,000 CU.FT.) U.G.I.
49. TAR WELLS (FILLED IN)
50. GARAGES
51. WATER WELL (USED BY DIST'N. DEPT. FOR SYPHON WATER)
52. FOUR GASHOLDER TANKS (FILLED IN)
53. GAS TESTING HOLDER TANK (FILLED IN)
54. COOLING TOWER RESERVOIR (FILLED IN)
55. SPORTS & SOCIAL CLUB & BOWLING GREEN
56. INTERCEPTORS
57. CANTEEN
58. ASH HOPPER
59. EFFLUENT TANK

B	NOTE ADDED.	F.L.H.	5.2.74.
A	AMENDED TO SUIT COMMENTS FROM AREA PRODUCTION DEPARTMENT.	F.L.H.	28.1.74
	AMENDMENT	INITIALS	DATE

SITE: BRADFORD ROAD MANCHESTER

PROJECT:

DRAWING TITLE: SITE PLAN

SCALE: AS SHOWN
DRAWN: F.L.H.
CHECKED:
SECTION:
DATE: 6.4.73.

CONSTRUCTIONAL & MAINTENANCE DEPT. WELMAN HOUSE, ALTRINCHAM, CHESHIRE. TEL. 061 928 6311

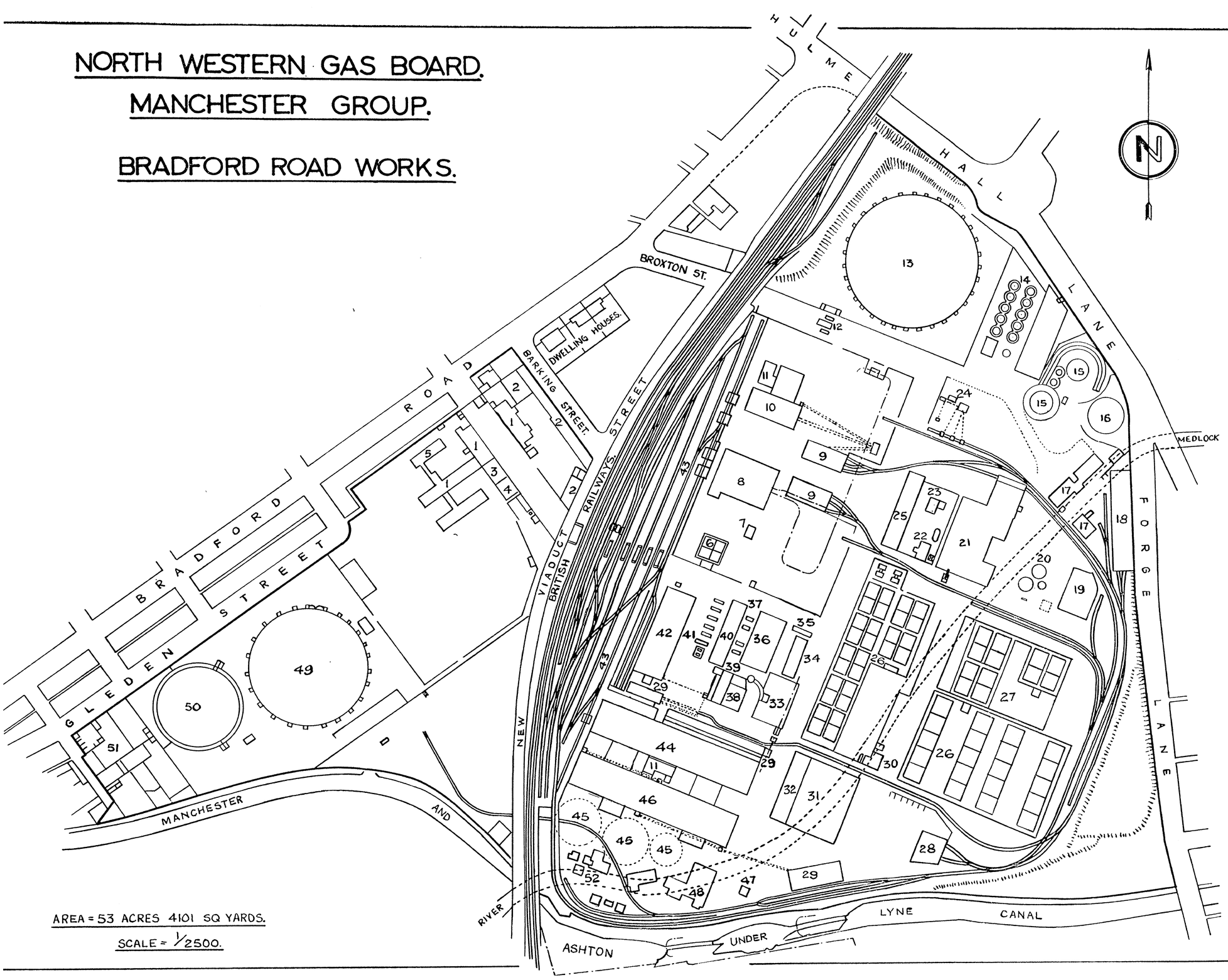
DRAWING No. 24659

MANCHE

NORTH WESTERN GAS BOARD.

MANCHESTER GROUP.

BRADFORD ROAD WORKS.



Nº	DESCRIPTION
1	OFFICES.
2	GARAGE.
3	GOVERNOR HOUSE.
4	RESEARCH LABORATORY & TEST ROOM.
5	STAFF CANTEEN.
6	COOLING TOWER.
7	TAR & LIQUOR PUMP HOUSE.
8	WOODALL DUCKHAM RETORT HOUSE. "C."
9	COKE SCREENING PLANT.
10	WESTS RETORT HOUSE. "D."
11	MESS ROOM.
12	COKE OFFICE.
13	10 MILLION GAS HOLDER.
14	TOWER PURIFIERS. (PROPOSED.)
15	OIL STORAGE TANKS.
16	C.W.G. RELIEF HOLDER.
17	BUILDERS STORES.
18	STORE SHED.
19	BENZOLE PLANT.
20	TAR WELLS.
21	C.W.G PLANT.
22	CALORIMETER ROOM.
23	COOLER & PUMP HOUSE. C.W.G.
24	COKE RECOVERY PLANT.
25	METER HOUSE.
26	COAL GAS PURIFIERS.
27	C.W.G. PURIFIERS.
28	ENGINE SHED.
29	COKE STORAGE BUNKERS.
30	MECHANICAL SUPERINTENDANT'S OFFICE.
31	MECHANICS SHOPS.
32	GENERAL STORES.
33	BOILERS.
34	JOINERS SHOP.
35	AMBULANCE ROOM.
36	SCRUBBER HOUSE.
37	ELECTROSTATIC DETARRERS.
38	POWER HOUSE.
39	COMPRESSOR HOUSE.
40	EXHAUSTER HOUSE.
41	CONDENSERS.
42	DRAKES VERTICAL RETORT HOUSE. E.
43	COAL BUNKERS.
44	DRAKES HORIZONTAL RETORT HOUSE. B.
45	TAR & LIQUOR STORAGE TANKS.
46	HORIZONTAL RETORT HOUSE. A.
47	OIL STORE.
48	CANTEEN & MESS ROOM.
49	7 MILLION GAS HOLDER
50	5 MILLION GAS HOLDER.
51	SALES & SERVICE DEPOT.
52	C.A.L. PLANT.

AREA = 53 ACRES 4101 SQ YARDS.

SCALE = 1/2500.

NORTH WESTERN GAS BOARD.		
MANCHESTER GROUP.		
GAYTHORN DRAWING OFFICE.		
LOCATION. BRADFORD ROAD WORKS.		
SUBJECT. GENERAL WORKS PLAN.		
DRAWN BY	TRACED BY	APPROVED
	D.S.	C.R.W.
OFFICE REF.	DATE NOVEMBER 5TH 54	
SCALE.	DRG. Nº B11/5	

MANCHE
01

Appendix B – Service Information

United Utilites Water PLC
Property Searches
Ground Floor Grasmere House
Lingley Mere Business Park
Great Sankey
Warrington
WA5 3LP
DX 715568 Warrington
Telephone 0870 751 0101
Fax Number 0870 7510102
Property.searches@uuplc.co.uk

White Young Green

Arndale Court
Headingley
Leeds
LS6 2UJ

Your Ref: A74754-28
Our Ref: 12/ 890519
Date: 03/09/2012

FAO: Rebecca Pool

Dear Sirs

Location: Surplus Land off Bradford Rd Gasholder Station Manchester

I acknowledge with thanks your request dated 30/08/12 for information on the location of our services.

Please find enclosed plans showing the approximate position of our apparatus known to be in the vicinity of this site.
I attach General Condition Information sheets, which details contact numbers for additional services (i.e. new supplies, connections, diversions) which we are unable to deal with at this office. In addition you should ensure they are made available to anyone carrying out any works which may affect our apparatus.

I trust the above meets with you requirements and look forward to hearing from you should you need anything further.

If you have any queries regarding this matter please telephone us on 0870 7510101.

Yours Faithfully,

S McManus.

Sue McManus
Operations Manager
Property Searches

United Utilities Water PLC
Registered in England & Wales No. 2366678
Registered Office: Haweswater House,
Lingley Mere Business Park, Lingley Green Avenue,
Great Sankey, Warrington, WA5 3LP

TERMS AND CONDITIONS - WASTERWATER & WATER DISTRIBUTION PLANS

These provisions apply to the public sewerage, water distribution and telemetry systems (including sewers which are the subject of an agreement under Section 104 of the Water Industry Act 1991 and mains installed in accordance with the agreement for the self construction of water mains) (UUW apparatus) of United Utilities Water PLC ("UUW").

TERMS AND CONDITIONS:

1. This Map and any information supplied with it is issued subject to the provisions contained below, to the exclusion of all others and no party relies upon any representation, warranty, collateral contract or other assurance of any person (whether party to this agreement or not) that is not set out in this agreement or the documents referred to in it.

2. This Map and any information supplied with it is provided for general guidance only and no representation, undertaking or warranty as to its accuracy, completeness or being up to date is given or implied.

3. In particular, the position and depth of any UUW apparatus shown on the Map are approximate only. UUW strongly recommends that a comprehensive survey is undertaken in addition to reviewing this Map to determine and ensure the precise location of any UUW apparatus. The exact location, positions and depths should be obtained by excavation trial holes.

4. The location and position of private drains, private sewers and service pipes to properties are not normally shown on this Map but their presence must be anticipated and accounted for and you are strongly advised to carry out your own further enquiries and investigations in order to locate the same.

5. The position and depth of UUW apparatus is subject to change and therefore this Map is issued subject to any removal or change in location of the same. The onus is entirely upon you to confirm whether any changes to the Map have been made subsequent to issue and prior to any works being carried out.

6. This Map and any information shown on it or provided with it must not be relied upon in the event of any development, construction or other works (including but not limited to any excavations) in the vicinity of UUW apparatus or for the purpose of determining the suitability of a point of connection to the sewerage or other distribution systems.

7. No person or legal entity, including any company shall be relieved from any liability howsoever and whensoever arising for any damage caused to UUW apparatus by reason of the actual position and/or depths of UUW apparatus being different from those shown on the Map and any information supplied with it.

8. If any provision contained herein is or becomes legally invalid or unenforceable, it will be taken to be severed from the remaining provisions which shall be unaffected and continue in full force and affect.

9. This agreement shall be governed by English law and all parties submit to the exclusive jurisdiction of the English courts, save that nothing will prevent UUW from bringing proceedings in any other competent jurisdiction, whether concurrently or otherwise.

Copyright © United Utilities Water PLC 2011-08-02

Conditions and information regarding wastewater network

These general conditions and precautions apply to the wastewater network of United Utilities.

Please ensure that a copy of these conditions is passed to your representative and contractor on site.

1. United Utilities provides the approximate locations of its sewers according to its records. These records are not necessarily accurate or complete nor do they normally show the positions of every sewer culvert or drain, private connections from properties to the public sewers or the particulars of any private system. No person or company shall be relieved from liability for any damage caused by reason of the actual positions and/or depths being different from those indicated. The records do indicate the position of the nearest known public sewer from which the likely length of private connections can be estimated together with the need for any off site drainage rights or easements.

2. Special requirements relative to our sewers may be indicated. United Utilities employees or its contractors will visit any site at reasonable notice to assist in the location of its underground sewers and advise any precautions that may be required to obviate any damage. To arrange a visit or for further information regarding new supplies, connections, diversions, costing, or any notification required under these General Conditions, please call us on **0845 746 2200**.

3. Where public sewers are within a site which is to be developed and do not take any drainage from outside the area, they are from an operational viewpoint redundant. The developer must identify all redundant sewers affected by the development and apply to United Utilities in writing for these sewers to be formally closed. The developer shall bear all related costs of the physical abandonment work.

4. Public sewers within the site that are still live outside the area, will be subject to a "Restricted Building zone". This would normally be a surface area equivalent to the depth of the sewer measured from the centre line of the sewer on either side. No construction will be permitted within that zone. The developer should also note that deep and wide rooted trees must not be planted in close proximity to live sewers. Access to public sewers must be maintained at all times and no interference to manholes will be permitted during construction work.

5. Where there is a public sewer along the line of a proposed development/building, arrangements shall be made by the developer at his cost to divert the sewer around the development. Where this is not possible and as a last resort, a "Building Over Agreement" will need to be completed under section 18 of the Building Act 1984. The developer shall design building foundations to ensure that no additional loading is transferred to the sewer and submit such details both to the Local Authority's Building Control Officer and to United Utilities for approval/acceptance. United Utilities on a rechargeable basis would normally undertake all aspects of design work associated with the diversion of any part of the operational wastewater network.

6. Where there is a non-main river watercourse/culvert passing through the site, the landowner has the responsibility of a riparian owner for the watercourse/culvert and is responsible for the maintenance of the fabric of the culvert and for all works involved in maintaining the unrestricted flow through it. Building over the watercourse/culvert is not recommended. The developer must contact the local authority before any works are carried out on the watercourse/culvert. Where it is necessary to discharge surface water from the site into the watercourse/culvert the developer shall make an assessment of the available capacity of the watercourse/culvert (based on a 1 in 50 year event) and ensure that the additional flow to be discharged into the watercourse/culvert will not cause any flooding. In appropriate cases, flooding may be prevented by on-site storage. The developer shall submit the relevant details required to substantiate his development proposals. Details of any outfall proposed shall also be submitted to the Environment Agency, PO Box 12, Richard Fairclough House, Knutsford Road, Warrington, Cheshire, WA4 1HT for their approval.

7. Where there is a main river watercourse/culvert passing through the site, the developer shall submit all proposals affecting the river to the Environment Agency at the address stated in paragraph 6 for approval/acceptance.

8. Your attention is drawn also to the following:

- **Private drains or sewers which may be within the site.** United Utilities has no duty to keep records of private drains and sewers, and there are no comprehensive records kept elsewhere. Local Authority Building Control Officers may have records of recent developments and they or the developer may be able to provide information in this respect.

- **Applications to make connections to the public sewer.** The developer must write to United Utilities requesting an application form that must be duly completed and returned. No works on the public sewer shall be carried out until a letter of consent is received from United Utilities.

- **Sewers for adoption.** If an agreement for the adoption of sewers under Section 104 of the Water Industry Act 1991 is being contemplated, a submission in accordance with "Sewers for Adoption", Fifth Edition, published by the Water Research Centre (2001) Plc, Henley Road, Medmenham, PO Box 16, Marlow, Buckinghamshire, SL7 2HD will be required, taking into consideration any departures from the general guide stipulated by United Utilities.

- **Further consultation with United Utilities.** Developers wishing to seek advice or clarification regarding sewer record information provided should contact United Utilities to arrange an appointment. A consultation fee may be charged, details of which will be made available at the time of making an appointment.

9. Combined sewers, foul sewers, surface water sewers, and pumped mains. These are shown separately in a range of colours or markings to distinguish them on our drawings, which are extracts from the statutory regional sewer map. A legend and key is provided on each extract for general use, although not all types of sewer will be shown on every extract.

   Combined sewers shown coloured red carry both surface water and foul sewage, especially in areas where there is no separate surface water sewerage system.

   Foul sewers coloured brown may also carry surface water and there may be no separate surface water system indicated in the immediate area. Both combined and foul sewers carry wastewater to our treatment works before it can safely be returned to the environment.

   Surface water sewers coloured blue on our drawings are intended only to carry uncontaminated surface water (e.g. rainfall from roofs, etc) and they usually discharge into local watercourses. It is important for the protection of the environment and water quality that only uncontaminated surface water is connected to the surface water sewers. Improper connections to surface water sewers from sink wastes, washing machines and other domestic use of water can cause significant pollution of watercourses.

   Pumped mains, rising mains and sludge mains will all be subject to pumping pressures and are neither suitable nor available for making new connections.

   Highway drains, when included, show as blue and black dashed lines. Highway drains are not assets belonging to United Utilities and are the responsibility of local authorities.

10. For information regarding future proposals for construction of company apparatus please write to United Utilities, PO Box 453, Warrington, WA5 3QN.

11. For information regarding easements, deeds, grants or wayleaves please write to United Utilities Property Solutions, Coniston Buildings, Lingley Mere Business Park, Lingley Green Avenue, Great Sankey, Warrington WA5 3UU (**Tel: 01925 463 654**).

United Utilities Water PLC
Haweswater House, Lingley Mere Business Park,
Lingley Green Avenue, Great Sankey, Warrington WA5 3LP
www.unitedutilities.com

Registered in England and Wales Registered Number 2366678

Conditions and information regarding water distribution apparatus

These general conditions and precautions apply to the water distribution system of United Utilities.

Please ensure that a copy of these conditions is passed to your representative and contractor on site.

1. United Utilities provides approximate locations of its water mains or apparatus according to its records. These records are not necessarily accurate or complete nor do they normally show the positions of private service pipes from the mains to properties. Where service pipes are shown, a blue broken line indicates their approximate position. No person or company shall be relieved from liability for any damage caused by reason of the actual positions and/or depths being different from those indicated.

2. Special requirements relative to our apparatus may be indicated. United Utilities employees will visit any site at reasonable notice to assist in the location of its underground water apparatus and advise any precautions that may be required to obviate any damage. To arrange a visit or for further information regarding new supplies, connections, diversions, costing, future proposals for construction of company apparatus or any notification required under these General Conditions, please telephone us on **0845 746 2200** or write to United Utilities, PO Box 453, Warrington, WA5 3QN.

3. In order to achieve safe working conditions adjacent to any water apparatus the following should be observed;

   (a) All water apparatus should be located by hand digging prior to the use of mechanical excavation.

   (b) During construction work where heavy plant may have to cross the line of a water main, and the main is not under a carriageway of adequate standard of construction, crossing points should be suitably reinforced with sleepers, steel plates or a specially constructed reinforced concrete raft as necessary. These crossing points should be clearly indicated and crossing the line of the water main at other places should be prevented. United Utilities employees will advise on the type of reinforcement necessary. This is particularly important on agricultural or open land, where tilling or erosion may have significantly reduced the original cover.

   (c) No explosive should be used within 32 metres of any United Utilities apparatus without prior consultation with United Utilities.

   (d) Where it is proposed to carry out piling within 15 metres of any water main United Utilities should be consulted so that the affected main may be surveyed.

4. During any excavation, it is important that measures should be taken to ensure continued support for any water main:

   (a) Where excavation of trenches adjacent to any water main is likely to affect its support, the main must be supported to the satisfaction of United Utilities.

   (b) Where a trench is excavated crossing or parallel to the line of a water main, the backfill should be adequately compacted to prevent any settlement which could subsequently cause damage to the main. In special cases it may be necessary to provide permanent support to a main which has been exposed over the length of the excavation before back-filling and reinstatement is carried out. No back-filled concrete should contact the main.

5. No other apparatus should be laid over and along the line of a water main irrespective of clearance. A minimum clearance of 450 millimetres should be allowed between any plant being installed and an existing main, to facilitate maintenance and repair, whether the adjacent plant is parallel to or crossing the main. No manhole, chamber, or other obstruction should be built over or around a water main.

6. Where a water main is coated with special wrapping and the wrapping is damaged, even to a minor extent, United Utilities must be notified, and the excavation must be left open for ready access so that repairs can be made. In case of any material damage to the main itself causing leakage, or weakening of the mechanical strength of the pipe, the person or body responsible should immediately notify United Utilities in order that the necessary remedial work can be carried out. The full cost of the necessary remedial work will be charged to the person or body responsible for the damage.

7. If you propose to change existing levels over water mains you will need to inform us. We will need specific locations to be identified together with precise details as to the scale of the proposed changes to existing ground levels. Changes to existing levels may require the diversion of our apparatus at your cost. However, in certain circumstances we may wish to leave our apparatus where it is. On these occasions you will usually be required to protect our apparatus by means of a concrete raft and either raise or lower any surface boxes affected.

8. Under no circumstances should our surface boxes be either buried or left in a situation where they are raised above finished ground levels. You should re-use and re-set any surface boxes affected by your works into the new surface so that they align over the water apparatus below. You will be responsible for the cost of repairing any damage to our apparatus as a result of your works.

9. Where proposals involve resurfacing, you must notify United Utilities if your excavation will be greater than 750mm in the highway and 300mm in a footpath, verge or other location.

10. For information regarding easements, deeds, grants, licences or wayleaves, please write to United Utilities Property Solutions, Coniston Buildings, Lingley Mere Business Park, Lingley Green Avenue, Great Sankey, Warrington WA5 3UU (**Tel: 01925 463 654**).

Tree planting restrictions over water mains

a) Poplar and willow trees have extensive root systems and should not be planted within 10 metres of any water main.

b) The following trees and those of a similar size, whether they are deciduous or evergreen, should not be be planted within six metres of any water main:

- Ash, beech, birch, elm, horse chestnut, lime, oak, sycamore;
- Apple trees and pear trees;
- Most conifers.

c) United Utilities requires access to the route of its mains at all times to inspect for leaks and carry out surveys. We recommend that no shrubs or bushes which might obstruct or interfere with our access should be planted within one metre of the centre line of any water main.

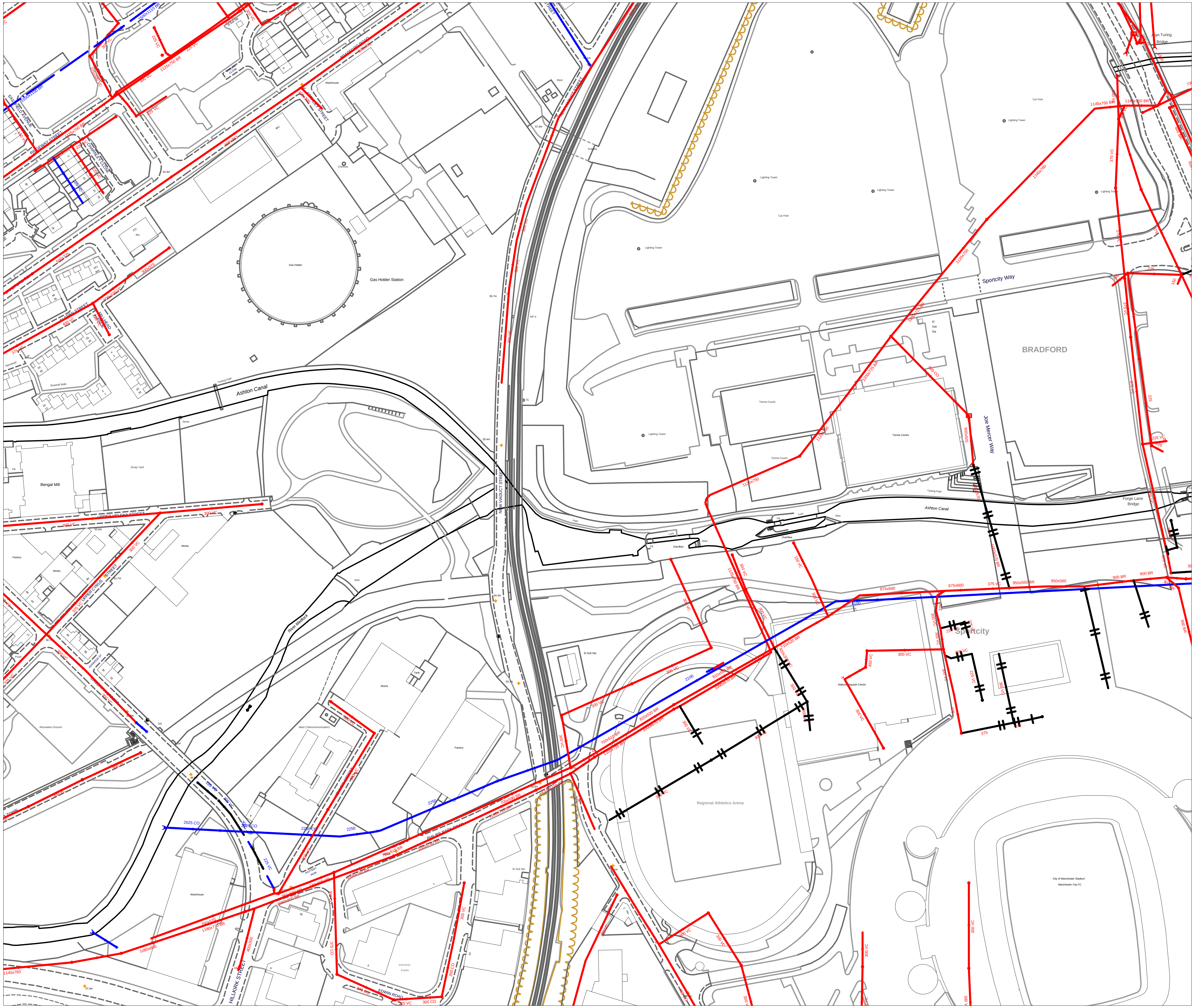
d) There may be instances when both United Utilities and the landowner will wish to plant shrubs or bushes close to the water main for screening or other purposes. The following shallow rooting shrubs would be suitable for this purpose:

- Blackthorn, broom, cotoneaster, elder;
- Hazel, laurel, privet, quickthorn, snowberry;
- Most ornamental flowering shrubs.

e) In areas where soft fruit is grown, blackcurrant, raspberries and gooseberries may be planted close to the main, provided that a path is left clear for inspection access and surveys. United Utilities can give additional advice where required in particular circumstances.

United Utilities Water PLC
Haweswater House, Lingley Mere Business Park,
Lingley Green Avenue, Great Sankey, Warrington WA5 3LP
www.unitedutilities.com

Registered in England and Wales Registered Number 2366678



Extract From Map of Public Sewers

The position of underground apparatus shown on this plan is approximate only and is given in accordance with the best information currently available.

The actual positions may be different from those shown on the plan and private pipes, sewers or drains may not be recorded.

United Utilities will not accept any liability for any damage caused by the actual positions being different from those shown.

© United Utilities 2001
The plan is based upon the Ordnance Survey Map with the sanction of the Controller of H.M. Stationery Office. Crown and United Utilities copyrights are reserved. Unauthorised reproduction will infringe these copyrights.

Legend

Public Sewer

Highway Drain

Private Sewer

Pumping Main

Section 104 Sewers

Abandoned Sewer

Refer to colour guide for content of pipe

Red or Brown - Foul Sewers
Blue - Surface Water Sewers

LAND OFF,
BRADFORD ROAD,
MANCHESTER

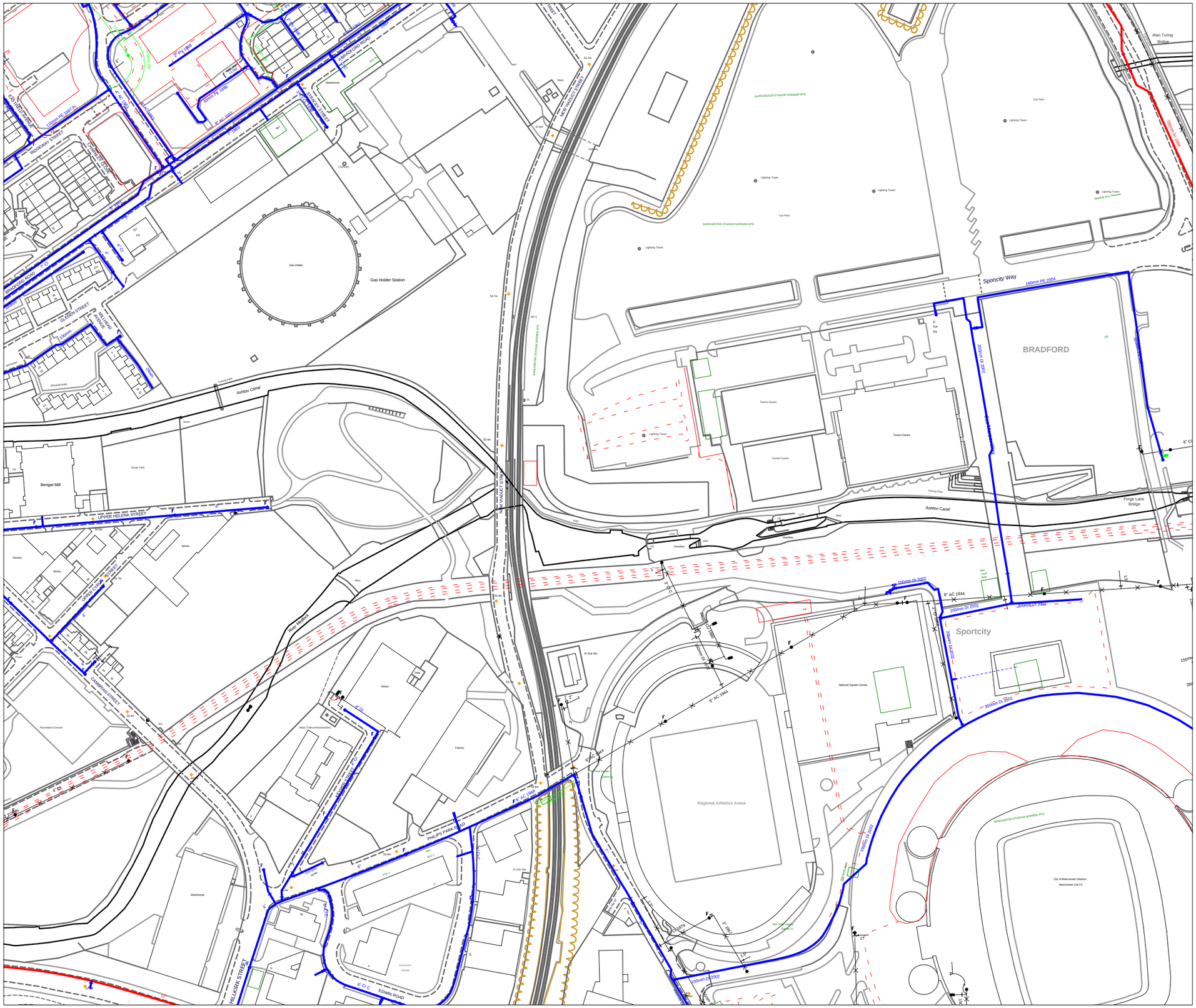
Printed By: AG

Date 03/09/2012

DO NOT SCALE

Approximate Scale 1:2500

United Utilities



Extract From Map of Water Mains

The position of underground apparatus shown on this plan is approximate only and is given in accordance with the best information currently available.

The actual positions may be different from those shown on the plan and private pipes, sewers or drains are not recorded.

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Blue - Distribution Mains
Red or Mauve - Trunk Mains
Dark Green - Non Potable Mains
----x----x----x----x----Disused Mains
(These may still be live)

LAND OFF,
BRADFORD ROAD,
MANCHESTER

Printed By: AG Date: 03/09/2012

DO NOT SCALE

Approximate Scale 1:2500

United Utilities

United Utilites Water PLC
Property Searches
Ground Floor Grasmere House
Lingley Mere Business Park
Great Sankey
Warrington
WA5 3LP
DX 715568 Warrington
Telephone 0870 751 0101
Fax Number 0870 7510102
Property.searches@uuplc.co.uk

White Young Green

Arndale Court
Headingley
Leeds
LS6 2UJ

Your Ref: A74754-28
Our Ref: 12/ 890523
Date: 03/09/2012

FAO:

Dear Sirs

Location: Gasholder Station Off Bradford Road (Broxton Street) Manchester M40 7BN

I acknowledge with thanks your request dated 30/08/12 for information on the location of our services.

Please find enclosed plans showing the approximate position of our apparatus known to be in the vicinity of this site.
I attach General Condition Information sheets, which details contact numbers for additional services (i.e. new supplies, connections, diversions) which we are unable to deal with at this office. In addition you should ensure they are made available to anyone carrying out any works which may affect our apparatus.

I trust the above meets with you requirements and look forward to hearing from you should you need anything further.

If you have any queries regarding this matter please telephone us on 0870 7510101.

Yours Faithfully,

S McManus.

Sue McManus
Operations Manager
Property Searches

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9. This agreement shall be governed by English law and all parties submit to the exclusive jurisdiction of the English courts, save that nothing will prevent UUW from bringing proceedings in any other competent jurisdiction, whether concurrently or otherwise.

Copyright © United Utilities Water PLC 2011-08-02

Conditions and information regarding wastewater network

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1. United Utilities provides the approximate locations of its sewers according to its records. These records are not necessarily accurate or complete nor do they normally show the positions of every sewer culvert or drain, private connections from properties to the public sewers or the particulars of any private system. No person or company shall be relieved from liability for any damage caused by reason of the actual positions and/or depths being different from those indicated. The records do indicate the position of the nearest known public sewer from which the likely length of private connections can be estimated together with the need for any off site drainage rights or easements.

2. Special requirements relative to our sewers may be indicated. United Utilities employees or its contractors will visit any site at reasonable notice to assist in the location of its underground sewers and advise any precautions that may be required to obviate any damage. To arrange a visit or for further information regarding new supplies, connections, diversions, costing, or any notification required under these General Conditions, please call us on **0845 746 2200**.

3. Where public sewers are within a site which is to be developed and do not take any drainage from outside the area, they are from an operational viewpoint redundant. The developer must identify all redundant sewers affected by the development and apply to United Utilities in writing for these sewers to be formally closed. The developer shall bear all related costs of the physical abandonment work.

4. Public sewers within the site that are still live outside the area, will be subject to a "Restricted Building zone". This would normally be a surface area equivalent to the depth of the sewer measured from the centre line of the sewer on either side. No construction will be permitted within that zone. The developer should also note that deep and wide rooted trees must not be planted in close proximity to live sewers. Access to public sewers must be maintained at all times and no interference to manholes will be permitted during construction work.

5. Where there is a public sewer along the line of a proposed development/building, arrangements shall be made by the developer at his cost to divert the sewer around the development. Where this is not possible and as a last resort, a "Building Over Agreement" will need to be completed under section 18 of the Building Act 1984. The developer shall design building foundations to ensure that no additional loading is transferred to the sewer and submit such details both to the Local Authority's Building Control Officer and to United Utilities for approval/acceptance. United Utilities on a rechargeable basis would normally undertake all aspects of design work associated with the diversion of any part of the operational wastewater network.

6. Where there is a non-main river watercourse/culvert passing through the site, the landowner has the responsibility of a riparian owner for the watercourse/culvert and is responsible for the maintenance of the fabric of the culvert and for all works involved in maintaining the unrestricted flow through it. Building over the watercourse/culvert is not recommended. The developer must contact the local authority before any works are carried out on the watercourse/culvert. Where it is necessary to discharge surface water from the site into the watercourse/culvert the developer shall make an assessment of the available capacity of the watercourse/culvert (based on a 1 in 50 year event) and ensure that the additional flow to be discharged into the watercourse/culvert will not cause any flooding. In appropriate cases, flooding may be prevented by on-site storage. The developer shall submit the relevant details required to substantiate his development proposals. Details of any outfall proposed shall also be submitted to the Environment Agency, PO Box 12, Richard Fairclough House, Knutsford Road, Warrington, Cheshire, WA4 1HT for their approval.

7. Where there is a main river watercourse/culvert passing through the site, the developer shall submit all proposals affecting the river to the Environment Agency at the address stated in paragraph 6 for approval/acceptance.

8. Your attention is drawn also to the following:

- **Private drains or sewers which may be within the site.** United Utilities has no duty to keep records of private drains and sewers, and there are no comprehensive records kept elsewhere. Local Authority Building Control Officers may have records of recent developments and they or the developer may be able to provide information in this respect.

- **Applications to make connections to the public sewer.** The developer must write to United Utilities requesting an application form that must be duly completed and returned. No works on the public sewer shall be carried out until a letter of consent is received from United Utilities.

- **Sewers for adoption.** If an agreement for the adoption of sewers under Section 104 of the Water Industry Act 1991 is being contemplated, a submission in accordance with "Sewers for Adoption", Fifth Edition, published by the Water Research Centre (2001) Plc, Henley Road, Medmenham, PO Box 16, Marlow, Buckinghamshire, SL7 2HD will be required, taking into consideration any departures from the general guide stipulated by United Utilities.

- **Further consultation with United Utilities.** Developers wishing to seek advice or clarification regarding sewer record information provided should contact United Utilities to arrange an appointment. A consultation fee may be charged, details of which will be made available at the time of making an appointment.

9. Combined sewers, foul sewers, surface water sewers, and pumped mains. These are shown separately in a range of colours or markings to distinguish them on our drawings, which are extracts from the statutory regional sewer map. A legend and key is provided on each extract for general use, although not all types of sewer will be shown on every extract.

   Combined sewers shown coloured red carry both surface water and foul sewage, especially in areas where there is no separate surface water sewerage system.

   Foul sewers coloured brown may also carry surface water and there may be no separate surface water system indicated in the immediate area. Both combined and foul sewers carry wastewater to our treatment works before it can safely be returned to the environment.

   Surface water sewers coloured blue on our drawings are intended only to carry uncontaminated surface water (e.g. rainfall from roofs, etc) and they usually discharge into local watercourses. It is important for the protection of the environment and water quality that only uncontaminated surface water is connected to the surface water sewers. Improper connections to surface water sewers from sink wastes, washing machines and other domestic use of water can cause significant pollution of watercourses.

   Pumped mains, rising mains and sludge mains will all be subject to pumping pressures and are neither suitable nor available for making new connections.

   Highway drains, when included, show as blue and black dashed lines. Highway drains are not assets belonging to United Utilities and are the responsibility of local authorities.

10. For information regarding future proposals for construction of company apparatus please write to United Utilities, PO Box 453, Warrington, WA5 3QN.

11. For information regarding easements, deeds, grants or wayleaves please write to United Utilities Property Solutions, Coniston Buildings, Lingley Mere Business Park, Lingley Green Avenue, Great Sankey, Warrington WA5 3UU (**Tel: 01925 463 654**).

United Utilities Water PLC
Haweswater House, Lingley Mere Business Park,
Lingley Green Avenue, Great Sankey, Warrington WA5 3LP
www.unitedutilities.com

Registered in England and Wales Registered Number 2366678

Conditions and information regarding water distribution apparatus

These general conditions and precautions apply to the water distribution system of United Utilities.

Please ensure that a copy of these conditions is passed to your representative and contractor on site.

1. United Utilities provides approximate locations of its water mains or apparatus according to its records. These records are not necessarily accurate or complete nor do they normally show the positions of private service pipes from the mains to properties. Where service pipes are shown, a blue broken line indicates their approximate position. No person or company shall be relieved from liability for any damage caused by reason of the actual positions and/or depths being different from those indicated.

2. Special requirements relative to our apparatus may be indicated. United Utilities employees will visit any site at reasonable notice to assist in the location of its underground water apparatus and advise any precautions that may be required to obviate any damage. To arrange a visit or for further information regarding new supplies, connections, diversions, costing, future proposals for construction of company apparatus or any notification required under these General Conditions, please telephone us on **0845 746 2200** or write to United Utilities, PO Box 453, Warrington, WA5 3QN.

3. In order to achieve safe working conditions adjacent to any water apparatus the following should be observed;

   (a) All water apparatus should be located by hand digging prior to the use of mechanical excavation.

   (b) During construction work where heavy plant may have to cross the line of a water main, and the main is not under a carriageway of adequate standard of construction, crossing points should be suitably reinforced with sleepers, steel plates or a specially constructed reinforced concrete raft as necessary. These crossing points should be clearly indicated and crossing the line of the water main at other places should be prevented. United Utilities employees will advise on the type of reinforcement necessary. This is particularly important on agricultural or open land, where tilling or erosion may have significantly reduced the original cover.

   (c) No explosive should be used within 32 metres of any United Utilities apparatus without prior consultation with United Utilities.

   (d) Where it is proposed to carry out piling within 15 metres of any water main United Utilities should be consulted so that the affected main may be surveyed.

4. During any excavation, it is important that measures should be taken to ensure continued support for any water main:

   (a) Where excavation of trenches adjacent to any water main is likely to affect its support, the main must be supported to the satisfaction of United Utilities.

   (b) Where a trench is excavated crossing or parallel to the line of a water main, the backfill should be adequately compacted to prevent any settlement which could subsequently cause damage to the main. In special cases it may be necessary to provide permanent support to a main which has been exposed over the length of the excavation before back-filling and reinstatement is carried out. No back-filled concrete should contact the main.

5. No other apparatus should be laid over and along the line of a water main irrespective of clearance. A minimum clearance of 450 millimetres should be allowed between any plant being installed and an existing main, to facilitate maintenance and repair, whether the adjacent plant is parallel to or crossing the main. No manhole, chamber, or other obstruction should be built over or around a water main.

6. Where a water main is coated with special wrapping and the wrapping is damaged, even to a minor extent, United Utilities must be notified, and the excavation must be left open for ready access so that repairs can be made. In case of any material damage to the main itself causing leakage, or weakening of the mechanical strength of the pipe, the person or body responsible should immediately notify United Utilities in order that the necessary remedial work can be carried out. The full cost of the necessary remedial work will be charged to the person or body responsible for the damage.

7. If you propose to change existing levels over water mains you will need to inform us. We will need specific locations to be identified together with precise details as to the scale of the proposed changes to existing ground levels. Changes to existing levels may require the diversion of our apparatus at your cost. However, in certain circumstances we may wish to leave our apparatus where it is. On these occasions you will usually be required to protect our apparatus by means of a concrete raft and either raise or lower any surface boxes affected.

8. Under no circumstances should our surface boxes be either buried or left in a situation where they are raised above finished ground levels. You should re-use and re-set any surface boxes affected by your works into the new surface so that they align over the water apparatus below. You will be responsible for the cost of repairing any damage to our apparatus as a result of your works.

9. Where proposals involve resurfacing, you must notify United Utilities if your excavation will be greater than 750mm in the highway and 300mm in a footpath, verge or other location.

10. For information regarding easements, deeds, grants, licences or wayleaves, please write to United Utilities Property Solutions, Coniston Buildings, Lingley Mere Business Park, Lingley Green Avenue, Great Sankey, Warrington WA5 3UU (**Tel: 01925 463 654**).

Tree planting restrictions over water mains

a) Poplar and willow trees have extensive root systems and should not be planted within 10 metres of any water main.

b) The following trees and those of a similar size, whether they are deciduous or evergreen, should not be be planted within six metres of any water main:

- Ash, beech, birch, elm, horse chestnut, lime, oak, sycamore;
- Apple trees and pear trees;
- Most conifers.

c) United Utilities requires access to the route of its mains at all times to inspect for leaks and carry out surveys. We recommend that no shrubs or bushes which might obstruct or interfere with our access should be planted within one metre of the centre line of any water main.

d) There may be instances when both United Utilities and the landowner will wish to plant shrubs or bushes close to the water main for screening or other purposes. The following shallow rooting shrubs would be suitable for this purpose:

- Blackthorn, broom, cotoneaster, elder;
- Hazel, laurel, privet, quickthorn, snowberry;
- Most ornamental flowering shrubs.

e) In areas where soft fruit is grown, blackcurrant, raspberries and gooseberries may be planted close to the main, provided that a path is left clear for inspection access and surveys. United Utilities can give additional advice where required in particular circumstances.

United Utilities Water PLC
Haweswater House, Lingley Mere Business Park,
Lingley Green Avenue, Great Sankey, Warrington WA5 3LP
www.unitedutilities.com

Registered in England and Wales Registered Number 2366678

Extract From Map of Public Sewers

The position of underground apparatus shown on this plan is approximate only and is given in accordance with the best information currently available.

The actual positions may be different from those shown on the plan and private pipes, sewers or drains may not be recorded.

United Utilities will not accept any liability for any damage caused by the actual positions being different from those shown.

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Legend

- Public Sewer
- Highway Drain
- Private Sewer
- Pumping Main
- Section 104 Sewers
- Abandoned Sewer

Refer to colour guide for content of pipe

Red or Brown - Foul Sewers
Blue - Surface Water Sewers

BRADFORD ROAD,
MANCHESTER

Printed By: AG

Date: 03/09/2012

DO NOT SCALE

Approximate Scale 1:2500

United Utilities

Extract From Map of Water Mains

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Blue - Distribution Mains
Red or Mauve - Trunk Mains
Dark Green - Non Potable Mains
----x----x----x----x----Disused Mains
(These may still be live)

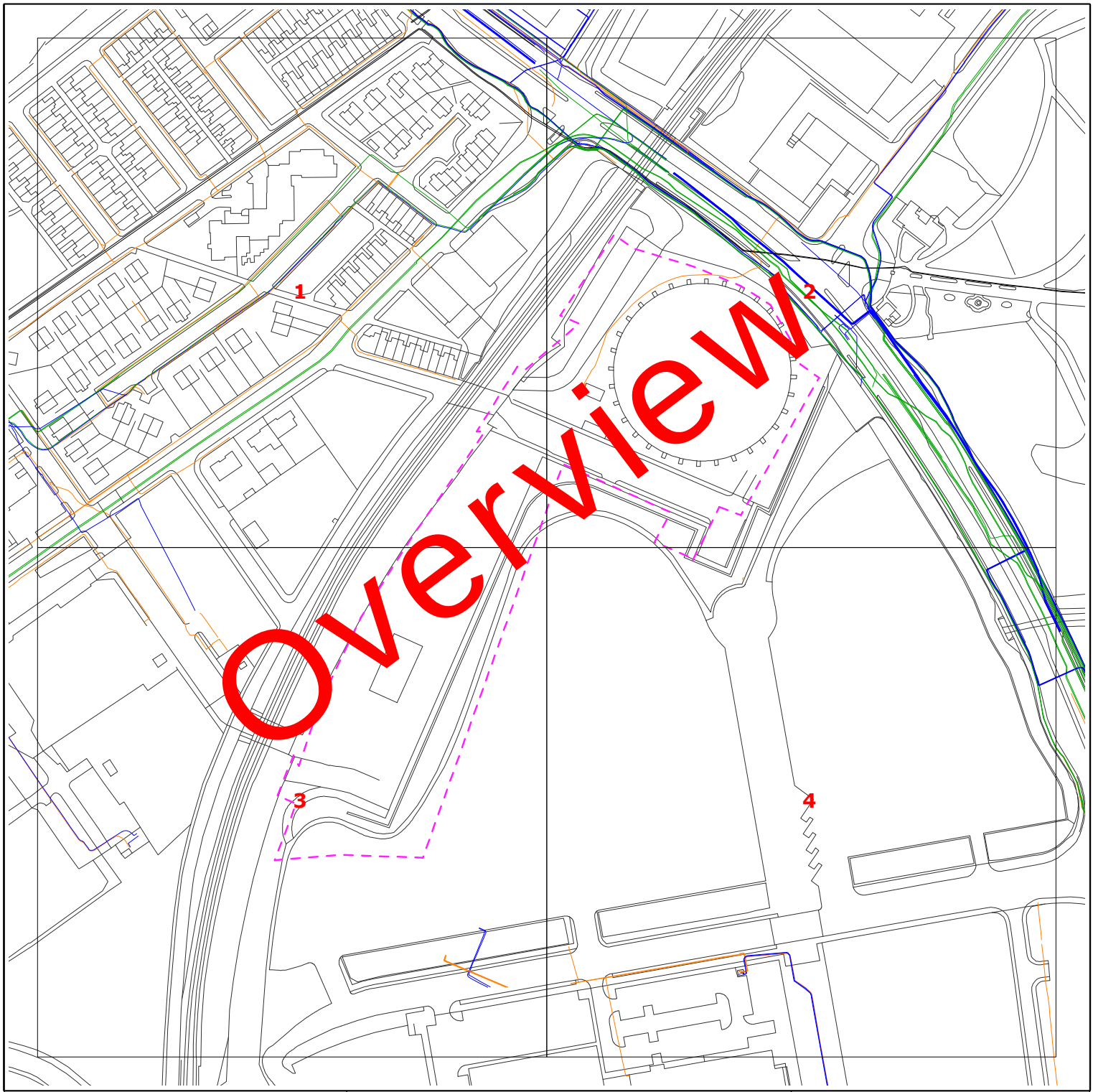
BRADFORD ROAD,
MANCHESTER

Printed By: AG Date: 03/09/2012

DO NOT SCALE

Approximate Scale 1:2500

United Utilities



Requested by: Andrew Priestley

Company: WYG Environment

Date Requested: 30/08/2012

Job Reference: 566803

Your Scheme/Reference: A74754-28 Bradfor

Dig Sites:

Area Line Point

Operating Voltage	Colour Code	Line Colour
132kV	Black	
33kV	Green	
22kV-25kV	Yellow	
11kV	Red	
6kV-6.6kV	Blue	
1kV-6kV	Violet	
LV	Orange	
Unknown Voltage	Brown	

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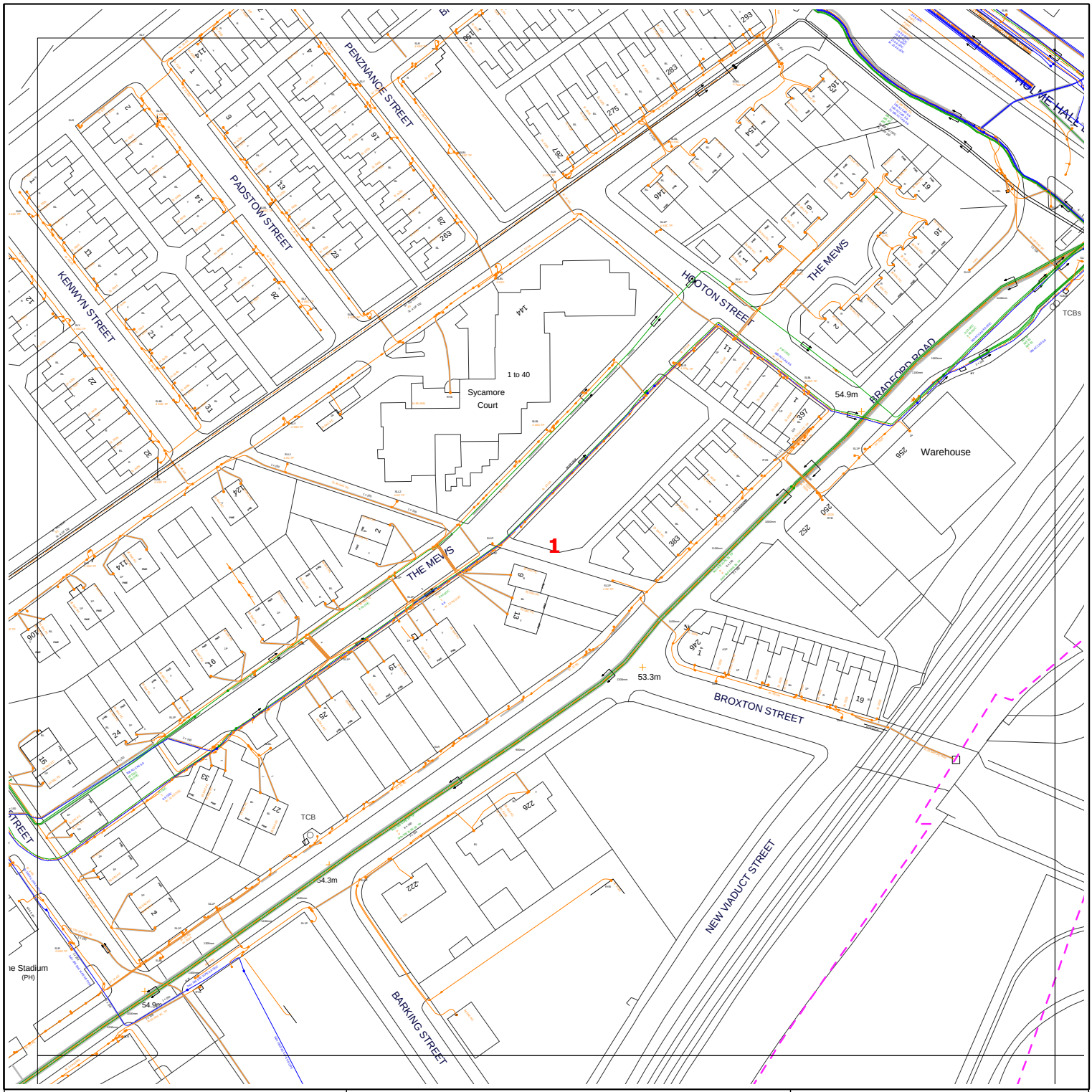
Scales on A4 paper:
1:1250 Area dig site
1:500 Line dig site
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Reference should be made to HSE Guidance, HS(G)47 "Avoiding Danger from Underground Services" and GS6 "Avoidance of Danger from Overhead Power Lines".

Electricity North West Limited 304 Bridgewater Place, Birchwood Park, Warrington WA3 6XG. Registered in England and Wales. Registered No 02366949



Requested by: Andrew Priestley

Company: WYG Environment

Date Requested: 30/08/2012

Job Reference: 566803

Your Scheme/Reference: A74754-28 Bradfor

Dig Sites:

Area Line Point

Operating Voltage	Colour Code	Line Colour
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11kV	Red	
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1kV-6kV	Violet	
LV	Orange	
Unknown Voltage	Brown	

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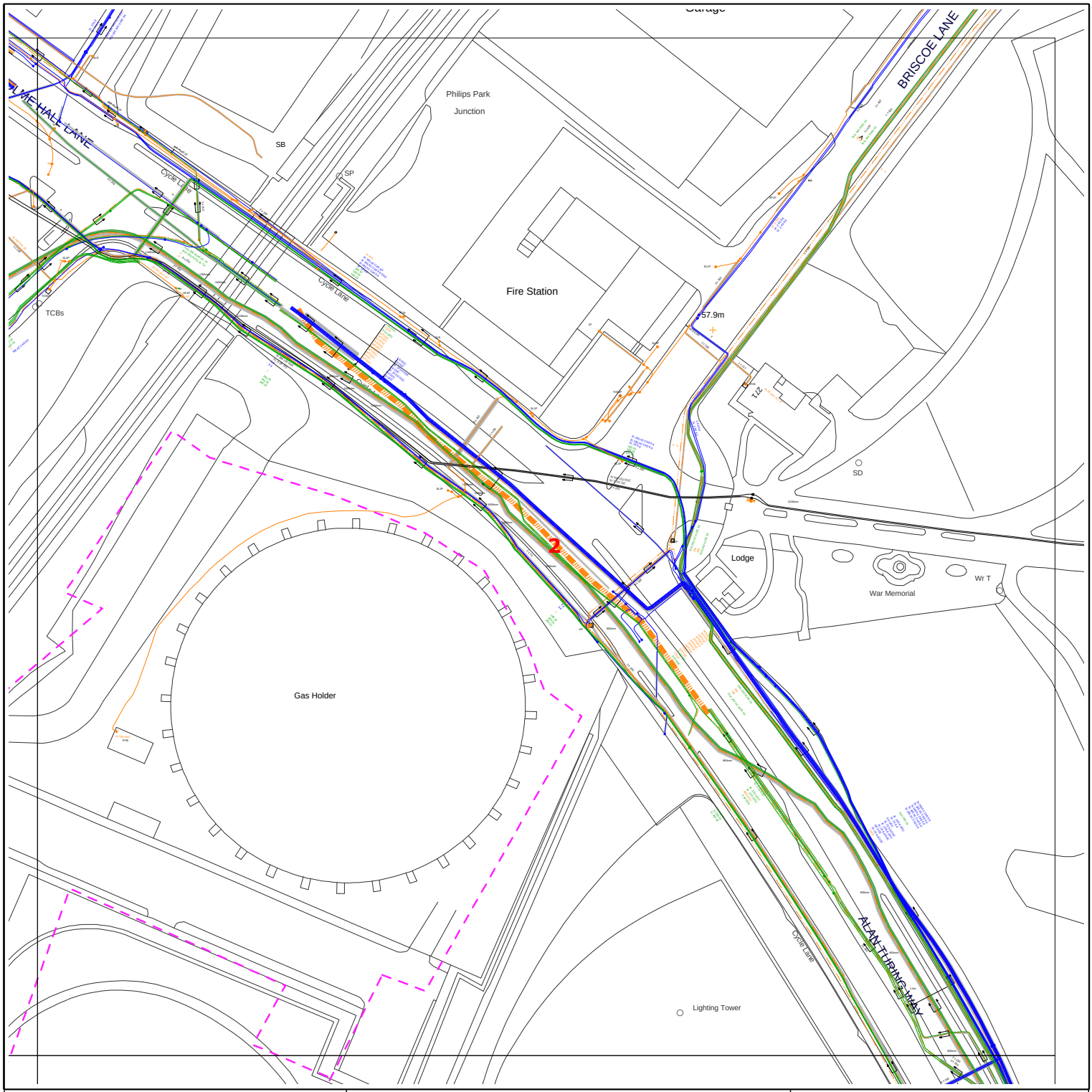
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Job Reference: 566803

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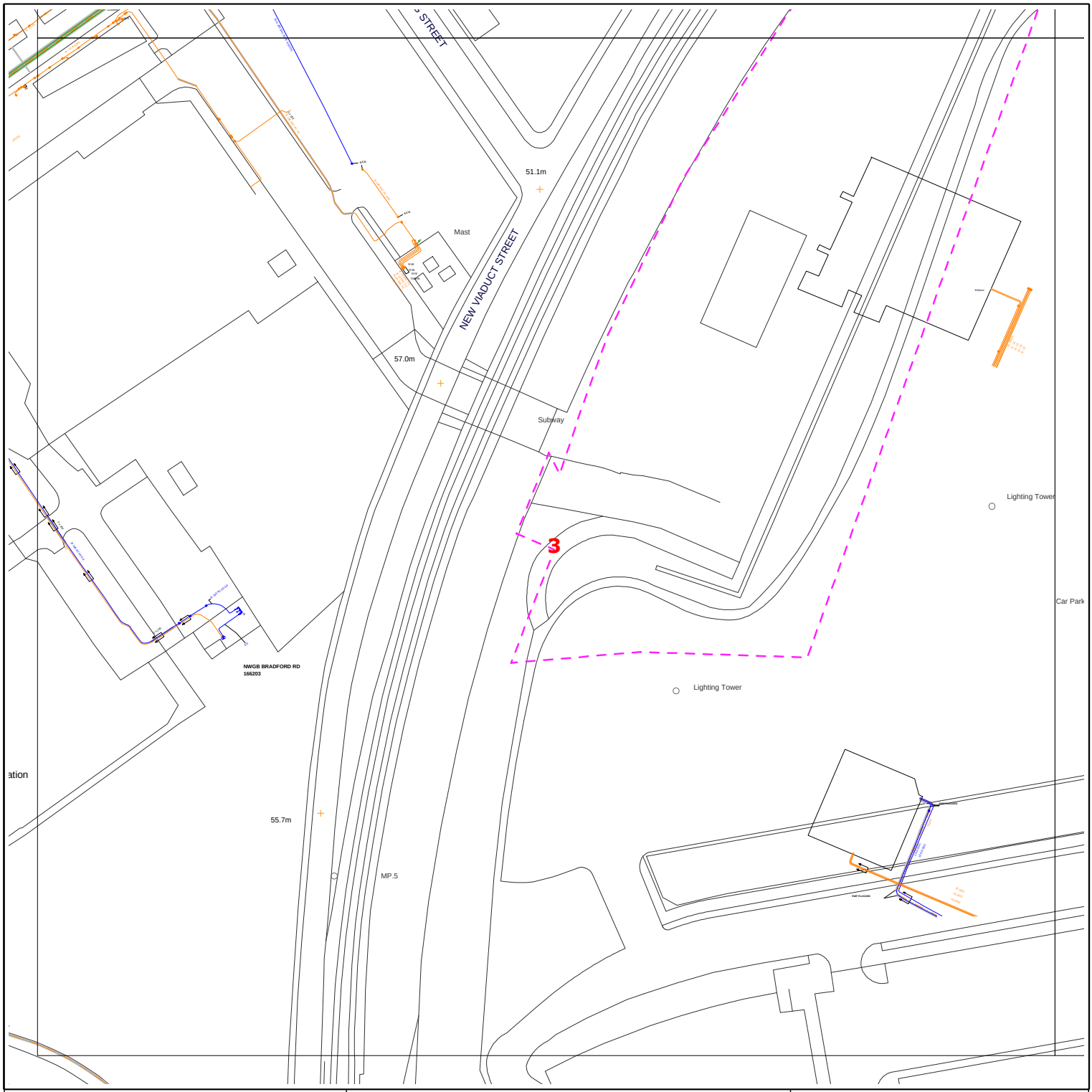
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Requested by: Andrew Priestley
Company: WYG Environment
Date Requested: 30/08/2012
Job Reference: 566803
Your Scheme/Reference: A74754-28 Bradfor

Dig Sites:

Area Line Point

Operating Voltage	Colour Code	Line Colour
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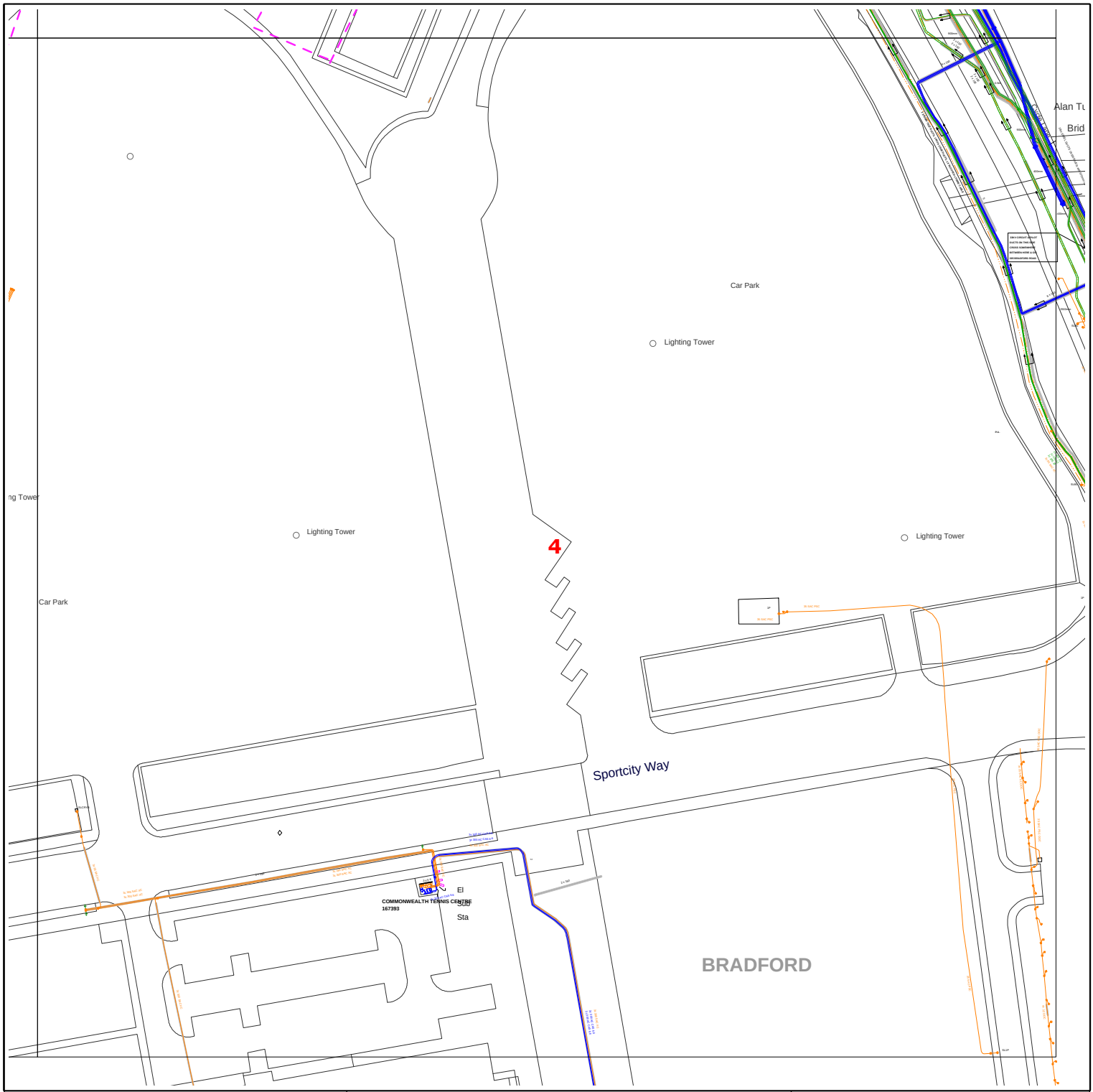
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Requested by: Andrew Priestley
Company: WYG Environment
Date Requested: 30/08/2012
Job Reference: 566803
Your Scheme/Reference: A74754-28 Bradfor

Dig Sites:

Area Line Point

Operating Voltage	Colour Code	Line Colour
132kV	Black	
33kV	Green	
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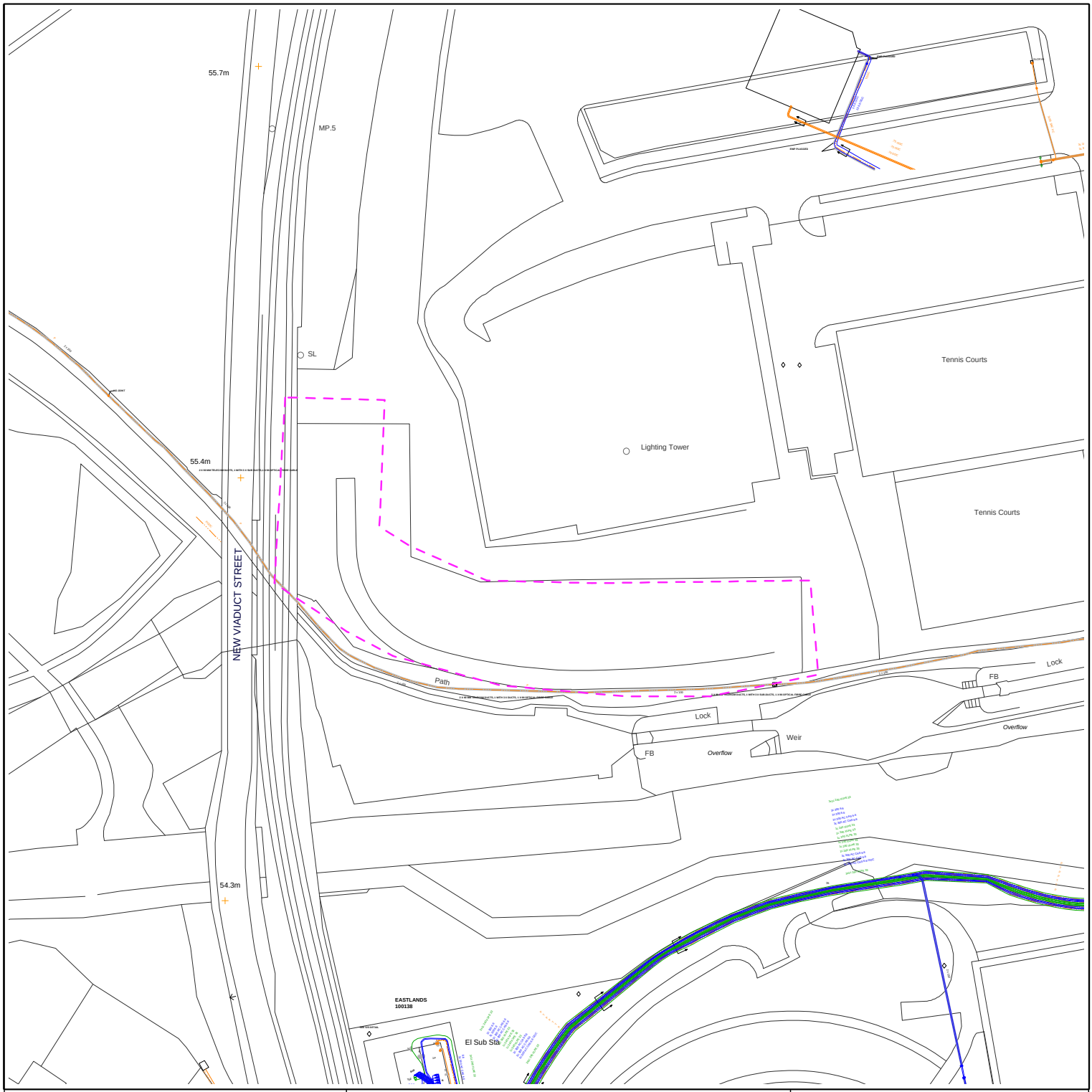
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Requested by: Andrew Priestley

Company: WYG Environment

Date Requested: 30/08/2012

Job Reference: 566843

Your Scheme/Reference: A74754-28 Surplus

Dig Sites:

Area Line Point

Operating Voltage	Colour Code	Line Colour
132kV	Black	
33kV	Green	
22kV-25kV	Yellow	
11kV	Red	
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Electricity North West Limited 304 Bridgewater Place, Birchwood Park, Warrington WA3 6XG. Registered in England and Wales. Registered No 02366949

Search Results

Thank you for your enquiry: LS-120829-KT-492-ZZD

Subject always to our standard terms and conditions, this enquiry result is valid for 28 days only from the date of enquiry and is based on the confirmed information you entered. If the location of the work changes then a further enquiry must be made. Should the work not be undertaken within 28 days of the enquiry then a further enquiry must be made.

ENQUIRER DETAILS
Name: Miss Rebecca Pool
Company: WYG - White Young Green Environmental
Email: rebecca.pool@wyg.com
Tel: 0113 278 7111

ENQUIRY DETAILS
Your reference: Bradford Road Gasholder Station and Surplus Land, Manchester A74754-28
Your location: 386600 399030
Confirmed location: OS grid reference (386600 399030)
Estimated start date: 10th October 2012
Planned works: Yes
Emergency: No
Type of work: Excavations Non Utility - Multiple excavations site
Distance covered: 300 metres

NOT IN THE ZONE OF INTEREST

BOC Limited (A Member of the Linde Group)
BPA
Centrica Energy
ConocoPhillips UK Ltd
Coryton Energy Co Ltd (Gas Pipeline)
E-on UK Plc (Gas Pipelines Only)
ESSAR
Esso Petroleum Company Limited
FibreSpeed Limited
Geo Networks Limited
Government Pipelines & Storage System
HV Cables
INEOS Manufacturing (Scotland and TSEP)
Ineos Enterprises Limited
Mainline Pipelines Limited
Manchester Jetline Limited
Marchwood Power Ltd (Gas Pipeline)
NPower CHP Pipelines
National Grid Gas and Electricity Transmission
Oikos Storage Limited
Perenco UK Limited (Purbeck Southampton Pipeline)
Phillips 66
Premier Transmission Ltd (SNIP)
RWEnpower (Little Barford and South Haven)
SABIC UK Petrochemicals
Scottish Power Generation
Shell Pipelines
Star Energy
Total UK (Finaline, Colnbrook & Colwick Pipelines)
Wingas Storage UK Ltd

Thank you for your enquiry, there is no further action necessary.

Please note
The Linesearch.org system only contains information on National Grid's Transmission assets. All other National Grid or other local high pressure (above 7 bar) gas pipelines and lower pressure gas mains are not included.

For all other energy network operators' information and contact details see http://www.energynetworks.org/

Please quote the Linesearch enquiry reference number in *all* correspondence

Please print this screen for your records.

This service is brought to you by Fisher German ©2012
System by byte9

Plant Protection
National Grid
Block 1; Floor 1
Brick Kiln Street
Hinckley
LE10 0NA
E-mail: plantprotection@nationalgrid.com
Telephone: +44 (0)800 688588

National Grid Electricity Emergency Number:
0800 40 40 90*

National Gas Emergency Number:
0800 111 999*
* Available 24 hours, 7 days/week.
Calls may be recorded and monitored.

www.nationalgrid.com

Ms Rebecca Pool
WYG Environment Planning Transport Ltd
Arndale Court
Otley Road
Headingley
Leeds
West Yorkshire
LS6 2UJ

Date: 06/09/2012
Our Ref: NW_TW_Z3_2W_12386
Your Ref: NC083

RE: Scheduled Works, M40 7BN Bradford Road Gasholder Station, Broxton Street, Manchester,

Thank you for your enquiry which was received on 30/08/2012.

Please note this response and any attached map(s) are valid for 28 days.

An assessment has been carried out with respect to National Grid Electricity Transmission plc's and National Grid Gas plc's apparatus. Please note it does not cover the items listed in the section "Your Responsibilities and Obligations", including gas service pipes and related apparatus.

For details of National Grid's network areas please see the National Grid website (http://www.nationalgrid.com/uk/Gas/Safety/work/) or the enclosed documentation.

Are My Works Affected?

Your proposal **is in proximity to the National Grid apparatus** specified within the "Assessment" section, which may impact, and possibly prevent, your proposed activities for safety and/or legal reasons.

As set out in the table in the "Assessment" section of this response; in respect of **all** the apparatus listed you must read and follow all the guidance provided when planning or undertaking any activities at this location. Additionally, for apparatus assessed as having a high potential to be affected, a member of the respective National Grid team will contact you within **7** working days.

You must not commence any work until you have complied with all of the guidance provided and been contacted by all of the National Grid teams (if any) listed in the Contact Requirements section.

National Grid is a trading name for:
National Grid Electricity Transmission plc
Registered Office: 1-3 Strand, London WC2N 5EH
Registered in England and Wales, No 2366977

National Grid is a trading name for:
National Grid Gas plc
Registered Office: 1-3 Strand, London WC2N 5EH
Registered in England and Wales, No 2006000

The details contained within this enquiry are valid for 28 days. If the scheduled work is not completed within this time, or should the location, date or nature of your activities change, you must submit another enquiry.

Your Responsibilities and Obligations

The "Assessment" Section below outlines the detailed requirements that must be followed when planning or undertaking your scheduled activities at this location.

It is your responsibility to ensure that the information you have submitted is accurate and that all relevant documents including links are provided to all persons (either direct labour or contractors) working for you near National Grid's apparatus, e.g. as contained within the Construction (Design and Management) Regulations.

This assessment solely relates to National Grid Electricity Transmission plc (NGET) and National Grid Gas plc (NGG) apparatus. This assessment does **NOT** include:

- National Grid's legal interest (easements or wayleaves) in the land which restricts activity in proximity to National Grid's assets in private land. You must obtain details of any such restrictions from the landowner in the first instance and if in doubt contact National Grid.
- Gas service pipes and related apparatus
- Recently installed apparatus
- Apparatus owned by other organisations, e.g. other gas distribution operators, local electricity companies, other utilities, etc.

It is **YOUR** responsibility to take into account whether the items listed above may be present and if they could be affected by your proposed activities. Further "Essential Guidance" in respect of these items can be found on the National Grid Website (http://www.nationalgrid.com/NR/rdonlyres/6D6525F9-59EB-4825-BA89-DBD7E68882C7/51319/EssentialGuidance.pdf).

This communication does not constitute any formal agreement or consent for any proposed development work; either generally or with regard to National Grid's easements or wayleaves nor any planning or building regulations applications.

NGG and NGET or their agents, servants or contractors do not accept any liability for any losses arising under or in connection with this information. This limit on liability applies to all and any claims in contract, tort (including negligence), misrepresentation (excluding fraudulent misrepresentation), breach of statutory duty or otherwise. This limit on liability does not exclude or restrict liability where prohibited by the law nor does it supersede the express terms of any related agreements.

If you require further assistance please contact the National Grid Plant Protection team via e-mail (click here) or via the contact details at the top of this response.

Yours faithfully

National Grid Plant Protection Team

ASSESSMENT

Affected Apparatus
The National Grid apparatus that has been identified as being in the vicinity of your proposed works is:

- High or Intermediate pressure (above 2 bar) Gas Pipelines and associated equipment
- Low or Medium pressure (below 2 bar) gas pipes and associated equipment. (As a result it is highly likely that there are gas services and associated apparatus in the vicinity)

Requirements

BEFORE carrying out any work you must:
(N.B. Works only to be undertaken when contact has been made as per the Contact Requirements section)

- **Ensure that no works are undertaken in the vicinity of our gas pipelines and that no heavy plant, machinery or vehicles cross the route of the pipeline until detailed consultation has taken place.**
- Carefully read these requirements including the attached guidance documents and maps showing the location of National Grid apparatus.
- Contact the landowner and ensure any proposed works in private land do not infringe National Grid's legal rights (i.e. easements or wayleaves). If the works are in the road or footpath the relevant local authority should be contacted.
- Ensure that all persons, including direct labour and contractors, working for you on or near National Grid's apparatus follow the requirements of the HSE Guidance Notes HSG47 - 'Avoiding Danger from Underground Services' and GS6 – 'Avoidance of danger from overhead electric power lines'. This guidance can be downloaded free of charge at http://www.hse.gov.uk
- In line with the above guidance, verify and establish the actual position of mains, pipes, cables, services and other apparatus on site before any activities are undertaken.
- Ensure that you have been in contact with **all** of the teams listed in the **Contact Requirements** section and complied with any additional guidance provided.

DURING any work you must:

- Ensure that the National Grid requirements are followed for work in the vicinity of High or Intermediate (above 2 bar) pressure pipelines including the supervision of the digging of trial holes.
- Ensure that no mechanical excavation takes place above or within 0.5m of the National Grid buried medium and low pressure gas pipes and associated equipment.
- Comply with all guidance relating to general activities and any specific guidance for each asset type as specified in the Guidance Section below.
- Ensure that access to National Grid apparatus is maintained at all times.
- Prevent the placing of heavy construction plant, equipment, materials or the passage of heavy vehicles over National Grid apparatus unless specifically agreed with National Grid in advance.
- Exercise extreme caution if slab (mass) concrete is encountered during excavation works as this may be protecting or supporting National Grid apparatus.
- Maintain appropriate clearances between gas apparatus and the position of other buried plant.

Please refer to the "General Guidance" or contact the National Grid Plant Protection Team for further information regarding the above.

Contact Requirements

National Grid has identified that the following apparatus types may be affected by your enquiry and further consultation may be required. Please use the boxes provided to record the details of the consultation (where applicable).

National Grid Apparatus	National Grid Team or Guidance	National Grid Contact Details and Ref	Date of Contact
High or Intermediate Pressure (above 2 bar) Gas Pipelines and associated equipment	Gas Distribution Pipelines Team	>	>
Low or Medium pressure gas pipes	Gas Distribution Maintenance Team	>	>

Each team will endeavour to contact you directly within **7** working days from the date of this response to undertake a more detailed assessment. Please contact National Grid if you have not had a response within this period. This may also have an impact on any preparatory works.

GUIDANCE

High Pressure Gas Pipelines Guidance:
If working in the vicinity of a high pressure gas pipeline the following document must be followed: 'Specification for Safe Working in the Vicinity of National Grid High Pressure Gas Pipelines and Associated Installations - Requirements for Third Parties' (SSW22). This can be obtained from:
http://www.nationalgrid.com/NR/rdonlyres/50ACAC0A-ED26-41A7-91FA-83163A98270F/23790/TSPSSW22_J537_Rev0807.pdf

Excavating Safely - Avoiding injury when working near gas pipes:
http://www.nationalgrid.com/NR/rdonlyres/2D2EEA97-B213-459C-9A26-18361C6E0B0D/25249/Digsafe_leaflet3e2finalamends061207.pdf

Standard Guidance

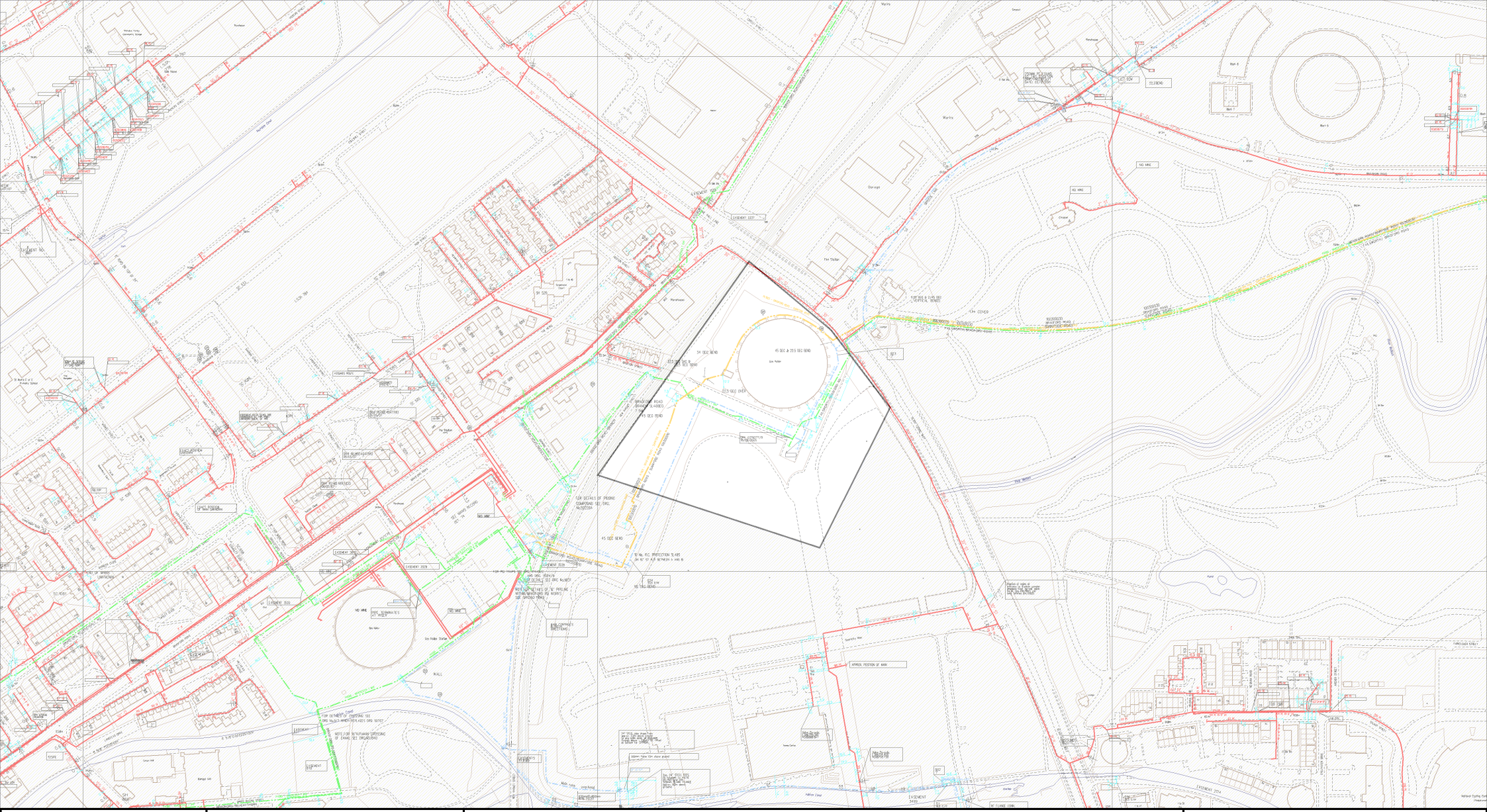
Essential Guidance document:
http://www.nationalgrid.com/NR/rdonlyres/6D6525F9-59EB-4825-BA89-DBD7E68882C7/51319/EssentialGuidance.pdf

General Guidance document:
http://www.nationalgrid.com/NR/rdonlyres/55C13C4D-A1AA-4B13-BFDA-1CF59F88B326/51318/GeneralGuidance.pdf

Excavating Safely in the vicinity of gas pipes guidance (Credit card):
http://www.nationalgrid.com/NR/rdonlyres/A3D37677-6641-476C-9DDA-E89949052829/44257/ExcavatingSafelyCreditCard.pdf

Excavating Safely in the vicinity of electricity cables guidance (Credit card):
http://www.nationalgrid.com/NR/rdonlyres/35DDEC6D-D754-4BA5-AF3C-D607D05A25C2/44858/ExcavatingSafelyCreditCardelectricitycables.pdf

Copies of all the Guidance Documents can also be downloaded from the National Grid Website:
http://www.nationalgrid.com/uk/Gas/Safety/work/downloads/



ID: NW_TW_Z3_2W_12386

USER: nicola.clamp

DATE: 06/09/2012

DATA DATE: 24/08/2012

REF: NC083

MAP REF: SJ8699
CENTRE: 386642, 399162

View extent: 1445m, 785m

LP MAINS
MP MAINS
IP MAINS
LHP MAINS
NHP MAINS

0m — 100m

Approximate scale 1:5000
on A4 Colour Landscape

Valve | Depth of Cover | Syphon | Diameter Change | Material Change

Do not proceed without further consultation

This plan shows those pipes owned by National Grid Gas plc in its role as a Licensed Gas Transporter (GT). Gas pipes owned by other GTs, or otherwise privately owned, may be present in this area. Information with regard to such pipes should be obtained from the relevant owners. The information shown on this plan is given without warranty, the accuracy thereof cannot be guaranteed. Service pipes, valves, syphons, stub connections, etc., are not shown but their presence should be anticipated. No liability of any kind whatsoever is accepted by National Grid Gas plc or their agents, servants or contractors for any error or omission. Safe digging practices, in accordance with HS(G)47, must be used to verify and establish the actual position of mains, pipes, services and other apparatus on site before any mechanical plant is used. It is your responsibility to ensure that this information is provided to all persons (either direct labour or contractors) working for you on or near gas apparatus. The information included on this plan should not be referred to beyond a period of 28 days from the date of issue.

Map 1 of 1 (GAS)

MAPS Plot Server Version 1.7.4

nationalgrid

Requested by: WYG Environment Planning Transport Ltd

This plan is reproduced from or based on the OS map by National Grid Gas plc, with the sanction of the controller of HM Stationery Office. Crown Copyright Reserved. Ordnance Survey Licence number 100024886

ENQUIRY SUMMARY

Received Date
30/08/2012

Your Reference
NC083

Location
Centre Point: 386642, 399162
X Extent: 286
Y Extent: 280
Postcode: M40 7BN
Location Description: M40 7BN Bradford Road Gasholder Station, Broxton Street, Manchester,

Map Options
Paper Size: A4
Orientation: LANDSCAPE
Requested Scale: 2500
Actual Scale: 1:5000 (GAS)
Real World Extents: 1445m x 785m (GAS)

Start Date
19/09/2012

Recipients
pprsteam@uk.ngrid.com

Enquirer Details
Organisation Name: WYG Environment Planning Transport Ltd
Contact Name: Ms Rebecca Pool
Email Address: rebecca.pool@wyg.com
Telephone: (0)113 2787111 ((0)7879 608585)
Address: Arndale Court, Otley Road, Headingley, Leeds, West Yorkshire, LS6 2UJ

Description of Works
Gasholder Station 2 no. cable percussive holes to 6m deep 2 no. cable percussive with rotary follow on to 30m deep 7 no. machine excavated trial pits Surplus Land 3 no. cable percussive holes to 6m deep 2 no. cable percussive with rotary follow on to 30m deep 6 no. machine excavated trial pits (db)

Enquiry Type
Scheduled Works

Activity Type
General Excavation

Work Types
Work Type: Deep Excavation (greater than or equal to 0.3m)
Work Type: Boring/Moling/Horizontal Drilling greater than 300mm

18 Frogmore Road
Hemel Hempstead
Hertfordshire
HP3 9RT
UK

Telephone: +44 (0)1442 437500
Fax: +44 (0)1442 437550
www.rsk.co.uk

Your ref: N/A

Our ref: 293489/JM/01

13th December 2012

WYG
Arndale Court
Headingly
Leeds
LS6 2UJ

For the attention of Rebecca Pool (by Email only)

Dear Rebecca

GEOPHYSICAL INVESTIGATION at Bradford Road, Manchester.

Further to the site works undertaken, we have pleasure in enclosing our results for the above work.

1. INTRODUCTION

The site is located within the Bradford Road Gasholder Station, Broxton Street Manchester, M40 7BN. The investigation is required to determine the location of services within specific areas where intrusive investigations will be taking place, alongside a recorded ground penetrating radar survey to seek to determine the presence of a former tar tank and the River Medlock culvert.

The geophysical technique employed was that of Radiodetection and Ground Penetrating Radar (GPR).

The geophysical fieldwork was conducted on the 6th and 7th of December 2012.

2. THE GEOPHYSICAL SURVEY

Ground Penetrating Radar

The GPR technique operates by directing a pulse of electromagnetic radiation into the subsurface, which is reflected back to the instrument at boundaries between materials with contrasting electrical properties. The cover (depth) of a feature in the radar data is calculated using the recorded time of arrival of the reflection at the instrument, and the velocity of the EM pulse in the cover material. We would normally expect that assumed values for velocity will provide depth estimates accurate to within 20%. The velocity of the EM pulse through the ground is directly related to the dielectric constant, ξ of the medium. A dielectric constant of 6.25 was used for this survey, (typical for concrete).

The presence of a culvert or structural features relating to a tar tank should generate anomalous reflections within the radargrams. The nature and strength of these reflections will be dictated by the size/orientation of the feature, and to some extent, its respective contrast in dielectric properties with the surrounding ground.

The GPR survey was undertaken by traversing the areas in two perpendicular directions for the purpose of locating the tar tank and in perpendicular to the direction of the culvert from historical drawings, survey lines were spaced at 1m intervals across the area with the 400MHz antennae and 2m intervals with the 200MHz antennae.

For this survey, the GPR equipment used was a SIR 3000 system with a 400MHz and 200MHz antenna. GPR data were processed and interpreted off-site in order to identify the reflections indicative of the culvert and tank. The depth into the ground to which the radar can image is approximately 2.5m for the 400MHz antenna and 4m for the 200MHz antenna, dependent on ground conditions and the presence of reinforcement. Metal reinforcement in the concrete slab can act to mask signals from utilities with regard GPR equipment.

3. GEOPHYSICAL SURVEY RESULTS

In some locations of the site there were obstructions due to vegetation and boulders on the surface, which limited the accessibility with ground penetrating radar. Alongside this there was a significant amount of standing water, which caused strong attenuations in the GPR survey results masking any potential targets.

Several utilities were located throughout the clearance areas and are marked in **Figure 1** there were also GPR linear features located within the areas.

GPR data was collected and analysed on site with regard to locating the possible culvert and tar tank shown on historical drawings, there were no features indicative of these buried features within the GPR data. Collected GPR data was then post-processed and interrogated in order to locate buried features indicative of a culvert and tar tank structure, again no features could be found in either the 400MHz or 200MHz GPR data. Example GPR is shown in **Figure 3**

Limitations of the GPR

Non-intrusive geophysical techniques seek to locate boundaries across which there is a marked contrast in physical properties. Such a contrast may be detected remotely because it gives rise to a geophysical anomaly, which is indicative of variation in a physical property relative to some background value. Insufficient contrast (including high levels of cultural noise) can result in masking of the sought anomaly. Therefore, there may be other conditions prevailing at the site which have not been revealed by this investigation and which have therefore not been taken into account in this report.

The response of the subsurface to different physical forces can be highly variable. Interpretation of the responses contained in this report is based on experience in similar environments and site conditions.
The materials encountered and samples obtained during on-site intrusive investigations represent only a small proportion of the materials present on-site. It should be accepted, therefore, that the interpretation from remotely sensed geophysical data might be inconsistent with that arising from direct methods of investigation.

4. SUMMARY AND RECOMMENDATIONS

The Radiodetection and GPR clearance located services, GPR linear features and anomalies. It is recommended that the location of the services and features be confirmed with hand dug pits within 0.5m to expose buried obstructions and services prior to the commencement of works. It is also recommended that vacuum excavation or hand pitting be undertaken prior to drilling.

The GPR survey to detect the presence of a culvert and tar pit was inconclusive. We recommend the culvert entry points to be located and traced using man entry and/or sonde depending on access. Based on historical drawings, the tar tank would require targeted intrusive investigation.

We hope that the information supplied meets with your approval but should you have any queries, please do not hesitate to contact the writer.

Yours sincerely

For RSK Environment Limited



Joseph Milner *BSc FGS*
Graduate Geophysical Engineer

Please find attached with this document the following figures:

Figure 1 – Utility Clearance
Figure 2 – GPR Technique
Figure 3 – Example GPR Data

NOTES

The specific risks associated with the content of this drawing are considered to be:-

(1) The topographical baseplan has been supplied by the client and has not been checked for accuracy.
(2) Service routes have been identified by visual site inspection, lifting of inspection covers, and visual inspection from the surface together, and traced with Radiodetection tracing techniques.
(3) Thin utility lines represent assumed positions/routes.
(4) Depth to top of pipes/features shown in metres.
(5) A single line may represent multiple services in the same location.
(6) It is recommended that the Client should confirm the location of the geophysical anomalies with hand dug pits within 0.5m to expose buried obstructions and services prior to the commencement of works.
(7) Although every reasonable effort has been made to locate the buried obstructions using electromagnetic and radar techniques, RSK Environment Ltd cannot guarantee that every obstruction has been located.
(8) A Level 4 Survey is a Limited Detection survey with a full radiodetection survey of the site, and unrecorded GPR in stake-out mode. Taken from The Survey Association (TSA) Utility Survey Guidelines.
(9) Users should be aware that with Level 4 surveys GPR responses have been identified and marked on site, no additional processing of GPR data has been undertaken to isolate weaker or more subtle signals from targets.
(10) Users should be aware that a Level 4 clearance survey does not include depth information on utilities.

N
NORTH
INDICATIVE

Security Camera
Signal Lost
Signal Lost
Signal Lost
GPR detected disturbed ground

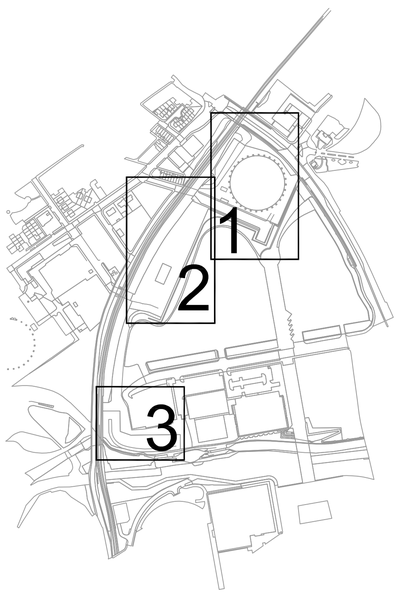
KEY

- BANK
- BUILDING
- CHANGE OF SURFACE
- FENCE
- KERB / DROP KERB
- VEGETATION / FOLIAGE
- GULLY
- IC
- ER SERVICES
- LP STREET FURNITURE
- WALL
- ->CW-> DRAINAGE COMBINED WATER WITH FLOW DIRECTION
- ->FW-> DRAINAGE FOUL WATER WITH FLOW DIRECTION
- ->SW-> DRAINAGE SURFACE WATER WITH FLOW DIRECTION
- E ELECTRIC
- GAS GAS
- MET METALLIC
- TCSU TRAFFIC CONTROLS
- TELECOMS (BT)
- FBR TELECOMS MISCELLANEOUS
- W WATER
- GPR GPR LINEAR FEATURE
- POSSIBLE/UNCERTAIN GPR LINEAR FEATURE
- GPR SCAN AREA EXTENTS
- RECORDED GPR SCAN AREA EXTENTS
- ELEC(OR) ELECTRIC RECORDS
- GAS(OR) GAS RECORDS
- BT(OR) TELECOM BT RECORDS
- WTR(OR) WATER RECORDS
- CHAMBER/REINFORCED SERVICE DUCT
- REINFORCING IN CONCRETE SLAB
- GPR DETECTED ANOMALY/DISTURBED GROUND

ABBREVIATIONS

A	APPROXIMATE
BT	BRITISH TELECOM
CL	COVER LEVEL
CD	CHAMBER DEPTH
d	DEPTH (metres)
DBC	DIRECTLY BURIED CABLE
DP	DRAIN PIPE
ER	EARTHING ROD
Ext.Ø	EXTERNAL DIAMETER (mm)
FH	FIRE HYDRANT
G	GULLY
GV	GAS VALVE
ICcw	COMBINED WATER INSPECTION COVER
ICe	ELECTRICITY INSPECTION COVER
ICfw	FOUL WATER INSPECTION COVER
ICsw	SURFACE WATER INSPECTION COVER
ICtcsu	TRAFFIC CONTROLS INSPECTION COVER
ICtel	TELECOMMUNICATIONS INSPECTION COVER
ICu	UNKNOWN INSPECTION COVER
ICw	WATER INSPECTION COVER
ID	INVERT DEPTH
IL	INVERT LEVEL
JB	JUNCTION BOX
LP	LAMP POST
NFI	NO FURTHER INFORMATION
OD	OUTLET DEPTH
RE	RODDING EYE
RWP	RAINWATER PIPE
SF	SOFFIT DEPTH
UTR	UNABLE TO RAISE
UTT	UNABLE TO TRACE
WL	WATER LEVEL
WM	WATER METER
WSV	WATER STOP VALVE
Ø	DIAMETER (mm)

SHEET.LAYOUT



Rev.	Date	Amendment	Drawn	Chkd.	Appd.

RSK safeground
18 Frogmore Road
Hemel Hempstead
Hertfordshire
HP3 9RT
United Kingdom
Tel: +44 1442 437500
Fax: +44 1442 437550
Email: safeground@rsk.co.uk
Web: www.rsk.co.uk

Client: WYG

Project Title: BRADFORD ROAD MANCHESTER

Drawing Title: LEVEL 4 UTILITY CLEARANCE

*TSA reference, see note (8)

Drawn	Date	Checked	Date	Approved	Date
JM	13/12/12	GL	14/12/12	##	01/01/12

Scale	Orig Size	Dimensions
1:200	A0	

Project No.	Drawing File
293489	293489 Fig. 1

Drawing No.	Rev.
293489 Fig.1 Sheet 1 of 3	

Scale
0 2 4 6 8 10m

NOTES

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(10) Users should be aware that a Level 4 clearance survey does not include depth information on utilities.

N
NORTH
INDICATIVE

Poor GPR coverage in this region poor due to vegetation and uneven ground

Poor GPR coverage in this region poor due to vegetation and uneven ground

Poor GPR coverage in this region poor due to vegetation and uneven ground

Poor GPR coverage in this region poor due to vegetation and uneven ground

Signal Lost

KEY

- BANK
- BUILDING
- CHANGE OF SURFACE
- FENCE
- KERB / DROP KERB
- VEGETATION / FOLIAGE
- GULLY
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- ->FV-> — DRAINAGE FOUL WATER WITH FLOW DIRECTION
- ->SV-> — DRAINAGE SURFACE WATER WITH FLOW DIRECTION
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- GAS — GAS
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- BT — TELECOMS (BT)
- FBR — TELECOMS MISCELLANEOUS
- W — WATER
- GPR — GPR LINEAR FEATURE
- POSSIBLE/UNCERTAIN GPR LINEAR FEATURE
- GPR SCAN AREA EXTENTS
- RECORDED GPR SCAN AREA EXTENTS
- ELECGRD — ELECTRIC RECORDS
- GAS(R) — GAS RECORDS
- BT(R) — TELECOM BT RECORDS
- WTR(R) — WATER RECORDS
- CHAMBER/REINFORCED SERVICE DUCT
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ICtel	TELECOMMUNICATIONS INSPECTION COVER
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UTR	UNABLE TO RAISE
UTT	UNABLE TO TRACE
WL	WATER LEVEL
WM	WATER METER
WSV	WATER STOP VALVE
Ø	DIAMETER (mm)

SHEET.LAYOUT



Rev.	Date	Amendment	Drawn	Chkd.	Appd.

RSK safeground
18 Frogmore Road
Hemel Hempstead
Hertfordshire
HP3 9RT
United Kingdom
Tel: +44 1442 437500
Fax: +44 1442 437550
Email: safeground@rsk.co.uk
Web: www.rsk.co.uk

Client: WYG

Project Title: BRADFORD ROAD

Drawing Title: LEVEL 4 UTILITY CLEARANCE

*TSA reference, see note (8)

Drawn	Date	Checked	Date	Approved	Date
JM	13/12/12	GL	14/12/12	GL	14/12/12

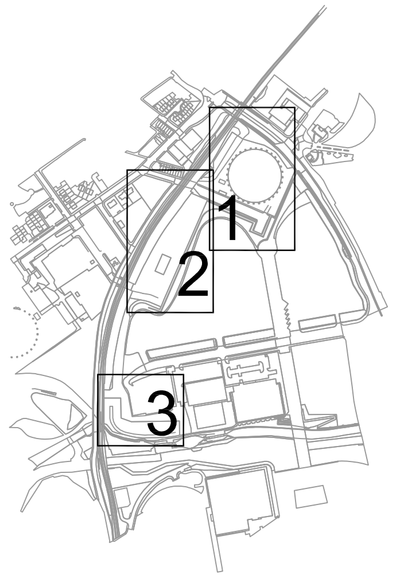
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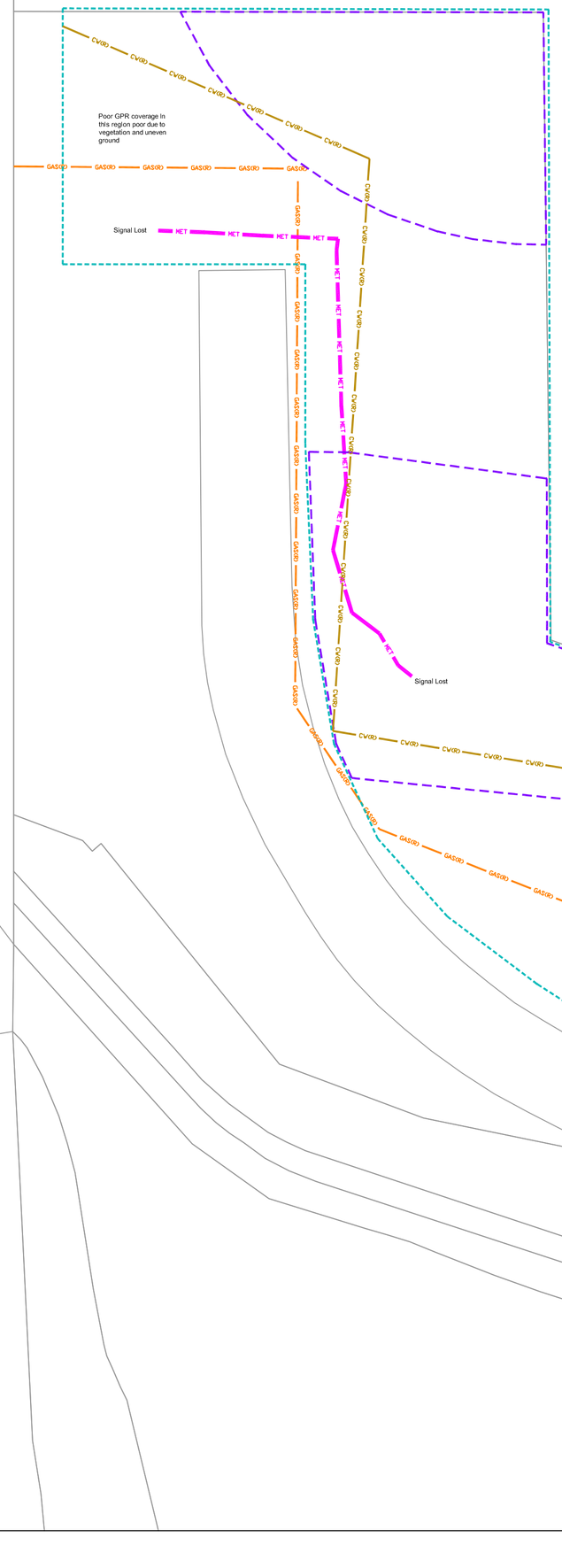
Project No.	Drawing File
293489	293489 Fig. 1

Drawing No.	Rev.
293489 Fig.1 Sheet 2 of 3	

Scale
0 2 4 6 8 10m

SHEET.LAYOUT





N
NORTH
INDICATIVE

NOTES

The specific risks associated with the content of this drawing are considered to be:-

(1) The topographical baseplan has been supplied by the client and has not been checked for accuracy.
(2) Service routes have been identified by visual site inspection, lifting of inspection covers, and visual inspection from the surface together, and traced with Radiodetection tracing techniques.
(3) Thin utility lines represent assumed positions/routes.
(4) Depth to top of pipes/features shown in metres.
(5) A single line may represent multiple services in the same location.
(6) It is recommended that the Client should confirm the location of the geophysical anomalies with hand dug pits within 0.5m to expose buried obstructions and services prior to the commencement of works.
(7) Although every reasonable effort has been made to locate the buried obstructions using electromagnetic and radar techniques, RSK Environment Ltd cannot guarantee that every obstruction has been located.
(8) A Level 4 Survey is a Limited Detection survey with a full radiodetection survey of the site, and unrecorded GPR in stake-out mode, Taken from The Survey Association (TSA) Utility Survey Guidelines.
(9) Users should be aware that with Level 4 surveys GPR responses have been identified and marked on site, no additional processing of GPR data has been undertaken to isolate weaker or more subtle signals from targets.
(10) Users should be aware that a Level 4 clearance survey does not include depth information on utilities.

KEY

- BANK
- BUILDING
- CHANGE OF SURFACE
- FENCE
- KERB / DROP KERB
- VEGETATION / FOLIAGE
- GULLY
- IC
- SERVICES
- STREET FURNITURE
- WALL
- DRAINAGE COMBINED WATER WITH FLOW DIRECTION
- DRAINAGE FOUL WATER WITH FLOW DIRECTION
- DRAINAGE SURFACE WATER WITH FLOW DIRECTION
- E ELECTRIC
- GAS GAS
- MET METALLIC
- TRAFFIC CONTROLS
- BT TELECOMS (BT)
- FBR TELECOMS MISCELLANEOUS
- W WATER
- GPR GPR LINEAR FEATURE
- POSSIBLE/UNCERTAIN GPR LINEAR FEATURE
- GPR SCAN AREA EXTENTS
- RECORDED GPR SCAN AREA EXTENTS
- ELECTRIC RECORDS
- GAS RECORDS
- TELECOM BT RECORDS
- VTB00 WATER RECORDS
- CHAMBER/REINFORCED SERVICE DUCT
- REINFORCING IN CONCRETE SLAB
- GPR DETECTED ANOMALY/DISTURBED GROUND

ABBREVIATIONS

A	APPROXIMATE
BT	BRITISH TELECOM
CL	COVER LEVEL
CD	CHAMBER DEPTH
d	DEPTH (metres)
DBC	DIRECTLY BURIED CABLE
DP	DRAIN PIPE
ER	EARTHING ROD
Ext.Ø	EXTERNAL DIAMETER (mm)
FH	FIRE HYDRANT
G	GULLY
GV	GAS VALVE
ICcw	COMBINED WATER INSPECTION COVER
ICe	ELECTRICITY INSPECTION COVER
ICfw	FOUL WATER INSPECTION COVER
ICsw	SURFACE WATER INSPECTION COVER
ICtcsu	TRAFFIC CONTROLS INSPECTION COVER
ICtel	TELECOMMUNICATIONS INSPECTION COVER
ICu	UNKNOWN INSPECTION COVER
ICw	WATER INSPECTION COVER
ID	INVERT DEPTH
IL	INVERT LEVEL
JB	JUNCTION BOX
LP	LAMP POST
NFI	NO FURTHER INFORMATION
OD	OUTLET DEPTH
RE	RODDING EYE
RWP	RAINWATER PIPE
SF	SOFFIT DEPTH
UTR	UNABLE TO RAISE
UTT	UNABLE TO TRACE
WL	WATER LEVEL
WM	WATER METER
WSV	WATER STOP VALVE
Ø	DIAMETER (mm)

Rev.	Date	Amendment	Drawn	Chkd.	Appd.

RSK safeground
18 Frogmore Road
Hemel Hempstead
Hertfordshire
HP3 9RT
United Kingdom
Tel: +44 1442 437500
Fax: +44 1442 437550
Email: safeground@rsk.co.uk
Web: www.rsk.co.uk

Client: WYG

Project Title: BRADFORD ROAD MANCHESTER

Drawing Title: LEVEL 4 UTILITY CLEARANCE

*TSA reference, see note (8)

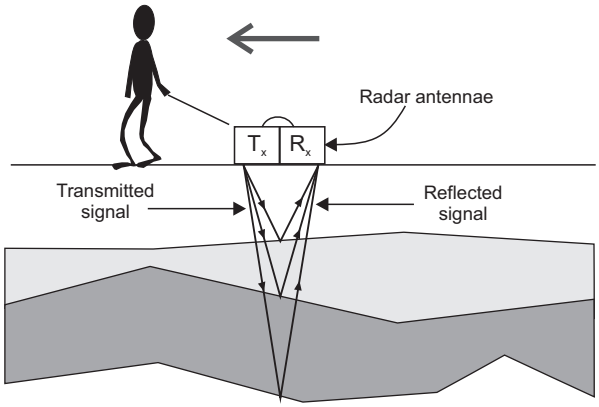
Drawn	Date	Checked	Date	Approved	Date
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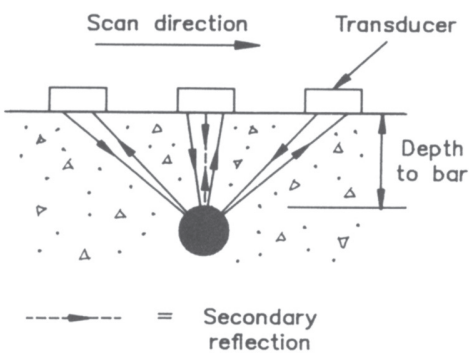
Project No.	Drawing File
293489	293489 Fig. 1

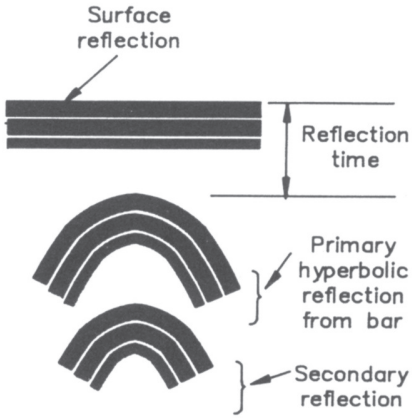
Drawing No.: 293489 Fig.1 Sheet 3 of 3 | Rev.:

Scale: 0 2 4 6 8 10m



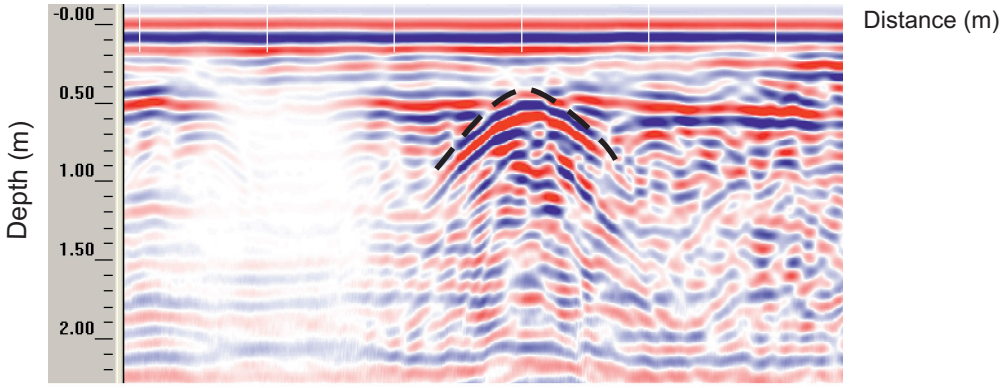
A The principle of ground penetrating radar





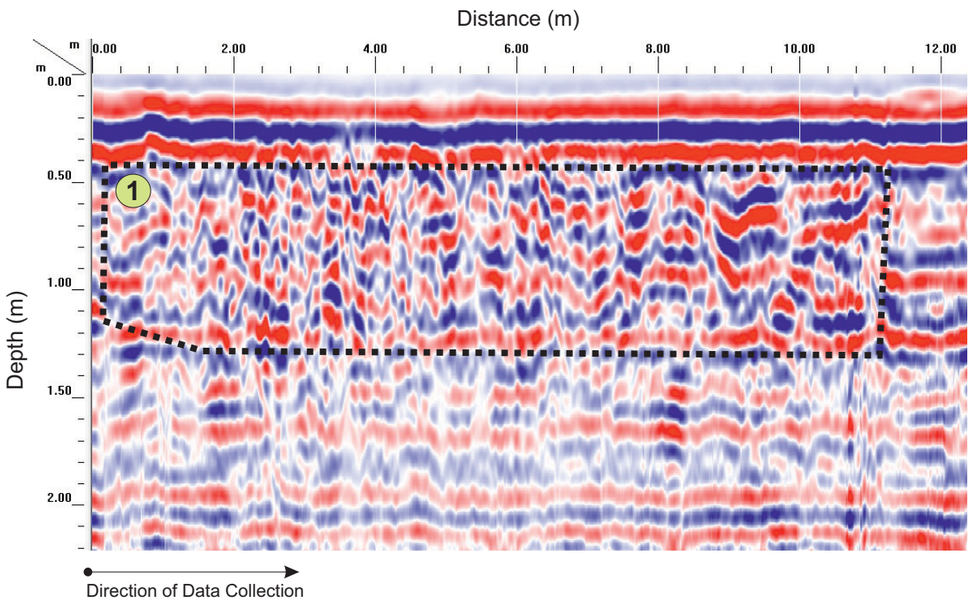
B GPR response to rebar or service

C An example of radar data collected over a typical utility service

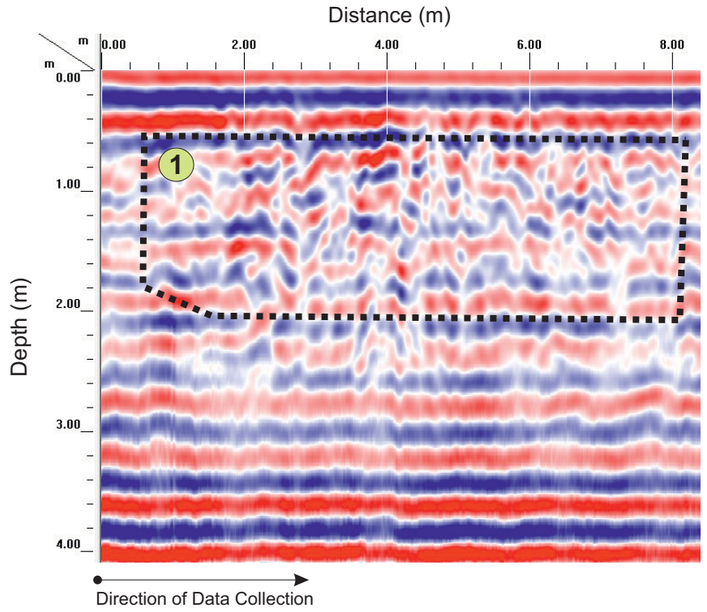


RSK	**THE GROUND PENETRATING RADAR TECHNIQUE**	
Client: WYG	Figure: 2	Job: 293489
Site/Project: Bradford Road, Manchester	SCALE N/A	DATE December 2012

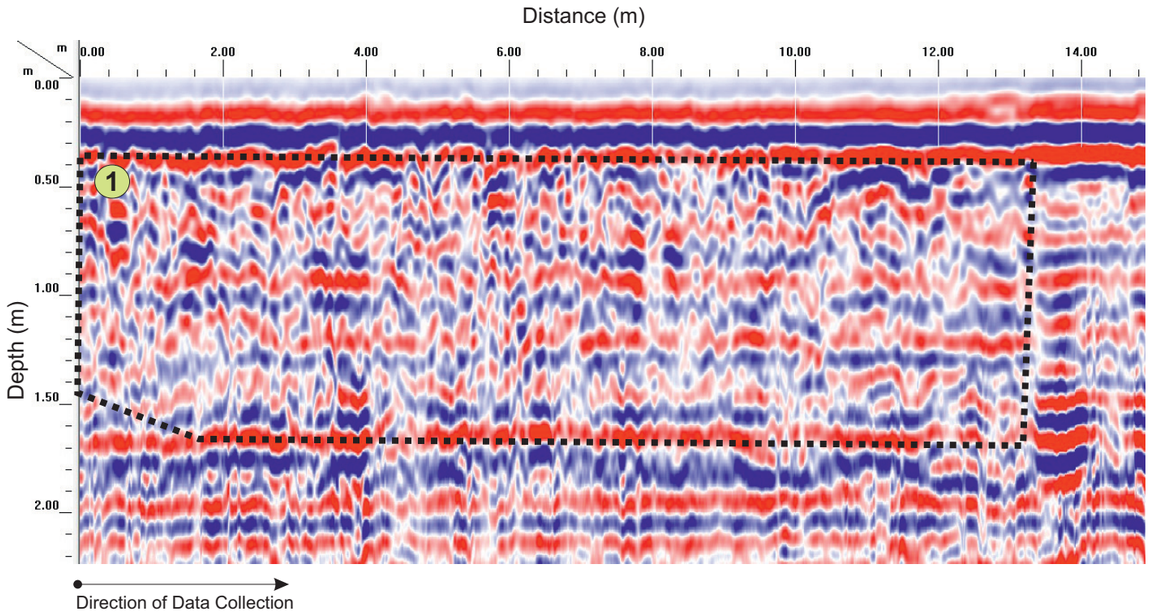
A Example 400MHz radar data targeting the culvert from historical drawings



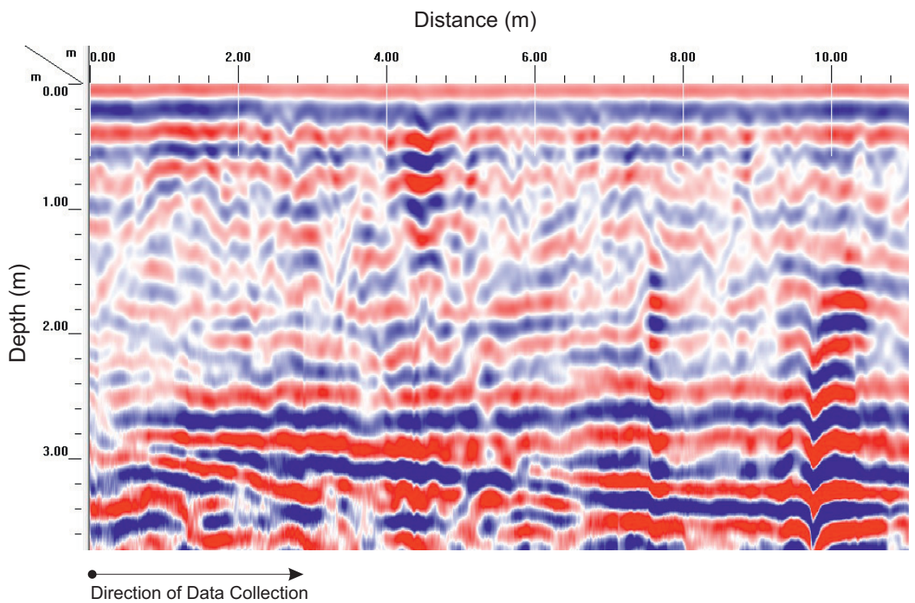
B Example 200MHz radar data targeting the culvert from historical drawings



C Example 400MHz radar data targeting the tar tank from historical drawings



D Example 200MHz radar data targeting the tar tank from historical drawings



Key Features

1 Made Ground

Strong positive reflection — Strong negative reflection

Notes

There is no evidence to suggest the presence of a culvert or tank in both sets of data.

RSK

Client: WYG

Site: Bradford Road Manchester

EXAMPLE RADAR DATA

Figure: 3 | Job: 293489

Scale: As Shown | Date: December 2012

Appendix C – Coal Authority Report

The COAL AUTHORITY

Issued by:
The Coal Authority, Property Search Services, 200 Lichfield Lane, Berry Hill, Mansfield, Nottinghamshire, NG18 4RG
Website: www.groundstability.com Phone: 0845 762 6848 DX 716176 MANSFIELD 5

LANDMARK INFORMATION GROUP LIMITED
SOWTON INDUSTRIAL ESTATE
ABBEY COURT
UNIT 5/7 EAGLE WAY
EXETER
DEVON
EX2 7HY

Our reference:	**51000095101008**
Your reference:	**39314891**
Date of your enquiry:	**25 May 2012**
Date we received your enquiry:	**25 May 2012**
Date of issue:	**28 May 2012**

This report is for the property described in the address below and the attached plan.

Non-Residential Coal Authority Mining Report

SITE AT NEW VIADUCT STREET, BRADFORD, WEST YORKSHIRE,

This report is based on and limited to the records held by, the Coal Authority, and the Cheshire Brine Subsidence Compensation Board's records, at the time we answer the search.

Coal mining	See comments below
Brine Compensation District	No

Information from the Coal Authority

Underground coal mining

Past

The property is in the likely zone of influence from workings in 7 seams of coal at 40m to 900m depth, and last worked in 1961.

Any ground movement from these coal workings should have stopped by now.

In addition the property is in an area where the Coal Authority believe there is coal at or close to the surface. This coal may have been worked at some time in the past.

Present

The property is not in the likely zone of influence of any present underground coal workings.

Future

The property is not in an area for which the Coal Authority is determining whether to grant a licence to remove coal using underground methods.

The property is not in an area for which a licence has been granted to remove or otherwise work coal using underground methods.

The property is not in an area that is likely to be affected at the surface from any planned future workings.

However, reserves of coal exist in the local area which could be worked at some time in the future.

No notice of the risk of the land being affected by subsidence has been given under section 46 of the Coal Mining Subsidence Act 1991.

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Mine entries

There are no known coal mine entries within, or within 20 metres of, the boundary of the property.

Records may be incomplete. Consequently, there may exist in the local area mine entries of which the Coal Authority has no knowledge.

Coal mining geology

The Authority is not aware of any evidence of damage arising due to geological faults or other lines of weakness that have been affected by coal mining.

Opencast coal mining

Past

The property is not within the boundary of an opencast site from which coal has been removed by opencast methods.

Present

The property does not lie within 200 metres of the boundary of an opencast site from which coal is being removed by opencast methods.

Future

The property is not within 800 metres of the boundary of an opencast site for which the Coal Authority is determining whether to grant a licence to remove coal by opencast methods.

The property is not within 800 metres of the boundary of an opencast site for which a licence to remove coal by opencast methods has been granted.

Coal mining subsidence

The Coal Authority has not received a damage notice or claim for the subject property, or any property within 50 metres, since 31st October 1994.

There is no current Stop Notice delaying the start of remedial works or repairs to the property.

The Authority is not aware of any request having been made to carry out preventive works before coal is worked under section 33 of the Coal Mining Subsidence Act 1991.

Mine gas

There is no record of a mine gas emission requiring action by the Coal Authority within the boundary of the property.

Hazards related to coal mining

The property has not been subject to remedial works, by or on behalf of the Authority, under its Emergency Surface Hazard Call Out procedures.

Withdrawal of support

The property is in an area for which a notice of entitlement to withdraw support was published in 1955.

The property is not in an area for which a notice has been given under section 41 of the Coal Industry Act 1994, revoking the entitlement to withdraw support.

Working facilities orders

The property is not in an area for which an Order has been made under the provisions of the Mines (Working Facilities and Support) Acts 1923 and 1966 or any statutory modification or amendment thereof.

Payments to owners of former copyhold land

The property is not in an area for which a relevant notice has been published under the Coal Industry Act 1975/Coal Industry Act 1994.

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Comments on Coal Authority information

In view of the mining circumstances a prudent developer would seek appropriate technical advice before any works are undertaken.

Therefore if development proposals are being considered, technical advice relating to both the investigation of coal and former coal mines and their treatment should be obtained before beginning work on site. All proposals should apply good engineering practice developed for mining areas. No development should be undertaken that intersects, disturbs or interferes with any coal or mines of coal without the permission of the Coal Authority. Developers should be aware that the investigation of coal seams/former mines of coal may have the potential to generate and/or displace underground gases and these risks both under and adjacent to the development should be fully considered in developing any proposals. The need for effective measures to prevent gases entering into public properties either during investigation or after development also needs to be assessed and properly addressed. This is necessary due to the public safety implications of any development in these circumstances.

Information from the Cheshire Brine Subsidence Compensation Board

The property lies outside the Cheshire Brine Compensation District.

Additional Remarks

This report is prepared in accordance with the Law Society's Guidance Notes 2006, the User Guide 2006 and the Coal Authority and Cheshire Brine Board's Terms and Conditions 2006.

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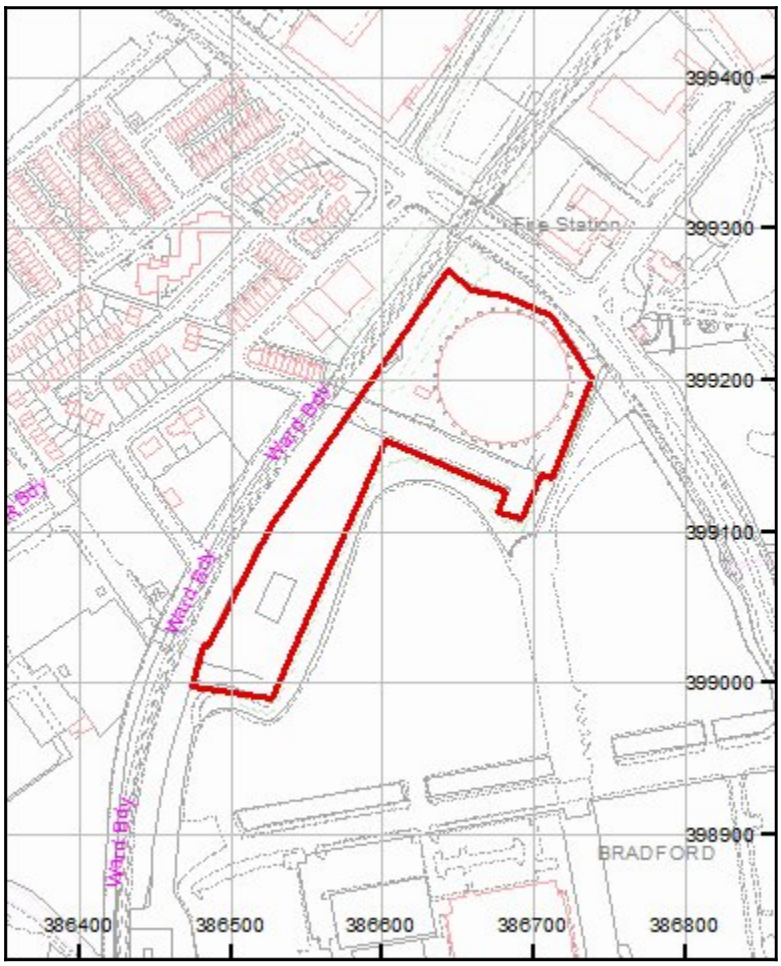
Location map

Approximate position of property



Enquiry boundary

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Key

Approximate position of enquiry boundary shown

Mapping sourced from Ordnance Survey

The COAL AUTHORITY

Issued by:
The Coal Authority, Property Search Services, 200 Lichfield Lane, Berry Hill, Mansfield, Nottinghamshire, NG18 4RG
Website: www.groundstability.com Phone: 0845 762 6848 DX 716176 MANSFIELD 5

WYG ENVIRONMENT PLANNING TRANSPORT LTD
ARNDALE CENTRE
ARNDALE COURT
OTLEY ROAD
LEEDS
WEST YORKSHIRE
LS6 2UJ

Our reference:	**51000151137001**
Your reference:	**A74754-28 SurplusLand**
Date of your enquiry:	**30 August 2012**
Date we received your enquiry:	**30 August 2012**
Date of issue:	**30 August 2012**

This report is for the property described in the address below and the attached plan.

Non-Residential Coal Authority Mining Report

SURPLUS LAND OFF BRADFORD ROAD GASHOLDER STATION, MANCHESTER, BRADFORD, MACHESTER, GREATER MANCHESTER,

This report is based on and limited to the records held by, the Coal Authority, and the Cheshire Brine Subsidence Compensation Board's records, at the time we answer the search.

Coal mining	See comments below
Brine Compensation District	No

Information from the Coal Authority

Underground coal mining

Past

The property is in the likely zone of influence from workings in 6 seams of coal at 90m to 970m depth, and last worked in 1961.

Any ground movement from these coal workings should have stopped by now.

In addition the property is in an area where the Coal Authority believe there is coal at or close to the surface. This coal may have been worked at some time in the past.

Present

The property is not in the likely zone of influence of any present underground coal workings.

Future

The property is not in an area for which the Coal Authority is determining whether to grant a licence to remove coal using underground methods.

The property is not in an area for which a licence has been granted to remove or otherwise work coal using underground methods.

The property is not in an area that is likely to be affected at the surface from any planned future workings.

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However, reserves of coal exist in the local area which could be worked at some time in the future.

No notice of the risk of the land being affected by subsidence has been given under section 46 of the Coal Mining Subsidence Act 1991.

Mine entries

There are no known coal mine entries within, or within 20 metres of, the boundary of the property.

Records may be incomplete. Consequently, there may exist in the local area mine entries of which the Coal Authority has no knowledge.

Coal mining geology

The Authority is not aware of any evidence of damage arising due to geological faults or other lines of weakness that have been affected by coal mining.

Opencast coal mining

Past

The property is not within the boundary of an opencast site from which coal has been removed by opencast methods.

Present

The property does not lie within 200 metres of the boundary of an opencast site from which coal is being removed by opencast methods.

Future

The property is not within 800 metres of the boundary of an opencast site for which the Coal Authority is determining whether to grant a licence to remove coal by opencast methods.

The property is not within 800 metres of the boundary of an opencast site for which a licence to remove coal by opencast methods has been granted.

Coal mining subsidence

The Coal Authority has not received a damage notice or claim for the subject property, or any property within 50 metres, since 31st October 1994.

There is no current Stop Notice delaying the start of remedial works or repairs to the property.

The Authority is not aware of any request having been made to carry out preventive works before coal is worked under section 33 of the Coal Mining Subsidence Act 1991.

Mine gas

There is no record of a mine gas emission requiring action by the Coal Authority within the boundary of the property.

Hazards related to coal mining

The property has not been subject to remedial works, by or on behalf of the Authority, under its Emergency Surface Hazard Call Out procedures.

Withdrawal of support

The property is in an area for which a notice of entitlement to withdraw support was published in 1955.

The property is not in an area for which a notice has been given under section 41 of the Coal Industry Act 1994, revoking the entitlement to withdraw support.

Working facilities orders

The property is not in an area for which an Order has been made under the provisions of the Mines (Working Facilities and Support) Acts 1923 and 1966 or any statutory modification or amendment thereof.

Payments to owners of former copyhold land

The property is not in an area for which a relevant notice has been published under the Coal Industry Act 1975/Coal Industry Act 1994.

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Comments on Coal Authority information

In view of the mining circumstances a prudent developer would seek appropriate technical advice before any works are undertaken.

Therefore if development proposals are being considered, technical advice relating to both the investigation of coal and former coal mines and their treatment should be obtained before beginning work on site. All proposals should apply good engineering practice developed for mining areas. No development should be undertaken that intersects, disturbs or interferes with any coal or mines of coal without the permission of the Coal Authority. Developers should be aware that the investigation of coal seams/former mines of coal may have the potential to generate and/or displace underground gases and these risks both under and adjacent to the development should be fully considered in developing any proposals. The need for effective measures to prevent gases entering into public properties either during investigation or after development also needs to be assessed and properly addressed. This is necessary due to the public safety implications of any development in these circumstances.

Information from the Cheshire Brine Subsidence Compensation Board

The property lies outside the Cheshire Brine Compensation District.

Additional Remarks

This report is prepared in accordance with the Law Society's Guidance Notes 2006, the User Guide 2006 and the Coal Authority and Cheshire Brine Board's Terms and Conditions 2006.

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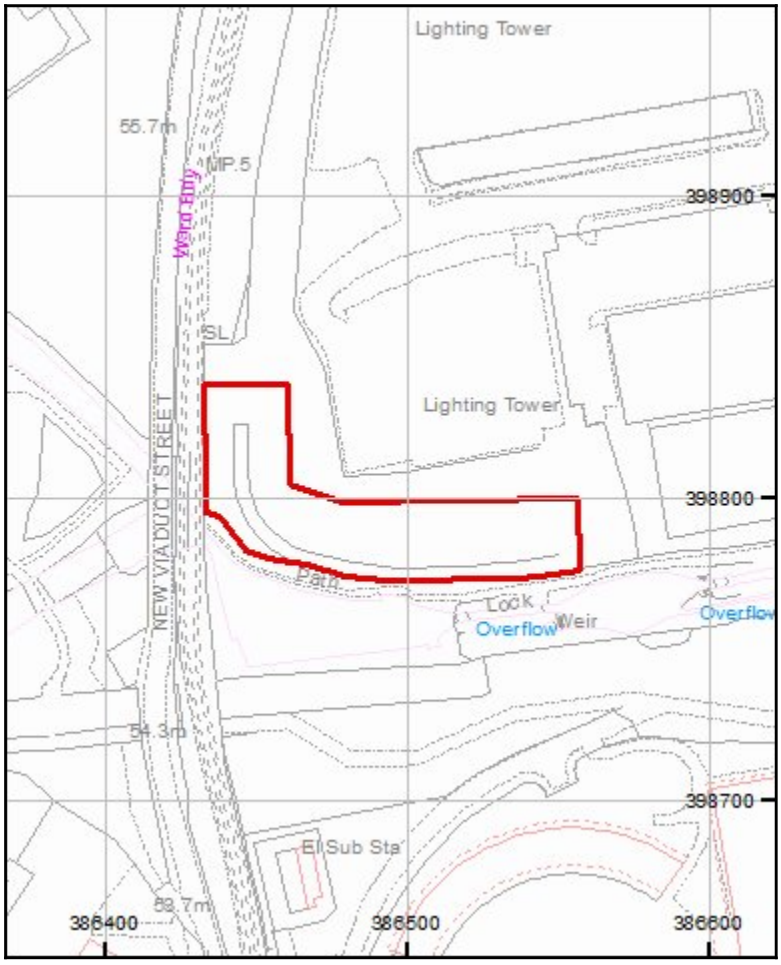
Location map

Approximate position of property



Enquiry boundary

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Key

Approximate position of enquiry boundary shown

Mapping sourced from Ordnance Survey

Appendix D – Envirocheck Report

Envirocheck® Report:

BGS Boreholes Datasheet

Order Details:

Order Number:
39314891_1_1

Customer Reference:
A074754-28

National Grid Reference:
386600, 399130

Slice:
A

Site Area (Ha):
2.38

Borehole Search Buffer (m):
1000

Site Details:

Site at 386580, 399170

Client Details:

Mr C Grose
WYG Environment Planning Transport Ltd
Arndale Court
Headingley
Leeds
LS6 2UJ

Prepared For:

Gasholder Compound
Bradford Road
Greater Manchester

BGS Boreholes Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m
BGS Boreholes	pg 1	5	92	265	595

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

Report Version v47.0

BGS Boreholes Detail

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
192	**BGS Boreholes** BGS Reference: Sj89ne88 Drilled Length (m): 12.19 Borehole Name: Manchester Corp. Gas Works Bradford Road 4	A11SW (NE)	0	3	386659 399238
192	**BGS Boreholes** BGS Reference: Sj89ne517 Drilled Length (m): 21.1 Borehole Name: Intermediate Ring Road Gw1	A11SW (NE)	13	3	386680 399270
193	**BGS Boreholes** BGS Reference: Sj89ne89 Drilled Length (m): 18.29 Borehole Name: Manchester Corp. Gas Works Bradford Road 3	A11SW (NE)	0	3	386636 399181
194	**BGS Boreholes** BGS Reference: Sj89ne91 Drilled Length (m): 19.81 Borehole Name: Manchester Corp. Gas Works Bradford Road 1	A11SW (NE)	0	3	386719 399210
194	**BGS Boreholes** BGS Reference: Sj89ne92 Drilled Length (m): 22.86 Borehole Name: Manchester Corp. Gas Works Bradford Road 5	A11SW (NE)	0	3	386675 399198
194	**BGS Boreholes** BGS Reference: Sj89ne518 Drilled Length (m): 29.65 Borehole Name: Intermediate Ring Road Gw2	A11SW (NE)	7	3	386730 399230
195	**BGS Boreholes** BGS Reference: Sj89ne90 Drilled Length (m): 19.81 Borehole Name: Manchester Corp. Gas Works Bradford Road 2	A11SW (E)	0	3	386694 399162
196	**BGS Boreholes** BGS Reference: Sj89ne58 Drilled Length (m): 9.14 Borehole Name: Manchester Corp. Hulme Hall Lane	A11SW (NE)	28	3	386768 399206
197	**BGS Boreholes** BGS Reference: Sj89ne57 Drilled Length (m): 9.75 Borehole Name: Manchester Corp. Hulme Hall Lane	A11SW (NE)	29	3	386741 399253
198	**BGS Boreholes** BGS Reference: Sj89ne56 Drilled Length (m): 6.1 Borehole Name: Manchester Corp. Hulme Hall Lane	A11SW (N)	41	3	386670 399305
199	**BGS Boreholes** BGS Reference: Sj89ne632 Drilled Length (m): 20.1 Borehole Name: Lower Medlock Ucso 401	A11SW (E)	54	3	386790 399180
200	**BGS Boreholes** BGS Reference: Sj89ne55 Drilled Length (m): 6.1 Borehole Name: Manchester Corp. Clifton Street	A11SW (N)	78	3	386610 399345
200	**BGS Boreholes** BGS Reference: Sj89ne2331 Drilled Length (m): 10 Borehole Name: Alan Turing Way Miles Platting Manchester 12	A10SE (N)	105	3	386600 399370
200	**BGS Boreholes** BGS Reference: Sj89ne2347 Drilled Length (m): 3.8 Borehole Name: Alan Turing Way Miles Platting Manchester Tp16	A10SE (N)	120	3	386570 399370
201	**BGS Boreholes** BGS Reference: Sj89ne383 Drilled Length (m): Not Supplied Borehole Name: Clifton Street 1	A11SW (N)	83	3	386610 399350
202	**BGS Boreholes** BGS Reference: Sj89ne633 Drilled Length (m): 30.1 Borehole Name: Lower Medlock Ucso 402	A11SW (E)	84	3	386810 399150

BGS Boreholes Detail

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
203	**BGS Boreholes** BGS Reference: Sj89ne59 Drilled Length (m): 7.62 Borehole Name: Manchester Corp. Hulme Hall Lane	A11SW (E)	88	3	386811 399142
204	**BGS Boreholes** BGS Reference: Sj89ne516 Drilled Length (m): 12 Borehole Name: Intermediate Ring Road Mr4/4a	A7NW (E)	107	3	386790 399060
204	**BGS Boreholes** BGS Reference: Sj89ne519 Drilled Length (m): 25 Borehole Name: Intermediate Ring Road Mr3	A7NW (E)	151	3	386830 399040
204	**BGS Boreholes** BGS Reference: Sj89ne85 Drilled Length (m): 17.07 Borehole Name: Manchester Corp. Mill Street	A7NW (E)	199	3	386872 399016
205	**BGS Boreholes** BGS Reference: Sj89ne346 Drilled Length (m): 12 Borehole Name: Bradford Road Gasworks S2/9 Ab1	A7NW (S)	110	3	386650 399000
205	**BGS Boreholes** BGS Reference: Sj89ne347 Drilled Length (m): 16 Borehole Name: Bradford Road Gasworks S2/9 Ab2	A7NW (S)	110	3	386650 399000
205	**BGS Boreholes** BGS Reference: Sj89ne348 Drilled Length (m): 12 Borehole Name: Bradford Road Gasworks S2/9 Ab3	A7NW (S)	110	3	386650 399000
205	**BGS Boreholes** BGS Reference: Sj89ne350 Drilled Length (m): 12 Borehole Name: Bradford Road Gasworks S10 Ab2	A7NW (S)	110	3	386650 399000
205	**BGS Boreholes** BGS Reference: Sj89ne351 Drilled Length (m): 11 Borehole Name: Bradford Road Gasworks S10 Ab3	A7NW (S)	110	3	386650 399000
205	**BGS Boreholes** BGS Reference: Sj89ne353 Drilled Length (m): 14 Borehole Name: Bradford Road Gasworks S4 Ab1	A7NW (S)	110	3	386650 399000
205	**BGS Boreholes** BGS Reference: Sj89ne354 Drilled Length (m): 11 Borehole Name: Bradford Road Gasworks S4 Ab2	A7NW (S)	110	3	386650 399000
205	**BGS Boreholes** BGS Reference: Sj89ne357 Drilled Length (m): 14 Borehole Name: Bradford Road Gasworks S5 Ab1	A7NW (S)	110	3	386650 399000
205	**BGS Boreholes** BGS Reference: Sj89ne358 Drilled Length (m): 12 Borehole Name: Bradford Road Gasworks S5 Ab2	A7NW (S)	110	3	386650 399000
205	**BGS Boreholes** BGS Reference: Sj89ne360 Drilled Length (m): 13 Borehole Name: Bradford Road Gasworks S7 Ab1	A7NW (S)	110	3	386650 399000
205	**BGS Boreholes** BGS Reference: Sj89ne361 Drilled Length (m): 12 Borehole Name: Bradford Road Gasworks S7 Ab2	A7NW (S)	110	3	386650 399000
205	**BGS Boreholes** BGS Reference: Sj89ne362 Drilled Length (m): 12 Borehole Name: Bradford Road Gasworks S8 Ab1	A7NW (S)	110	3	386650 399000

BGS Boreholes Detail

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
205	**BGS Boreholes** BGS Reference: Sj89ne368 Drilled Length (m): 11 Borehole Name: Bradford Road Gasworks S13 Ab2	A7NW (S)	110	3	386650 399000
205	**BGS Boreholes** BGS Reference: Sj89ne369 Drilled Length (m): 12 Borehole Name: Bradford Road Gasworks Cp1	A7NW (S)	110	3	386650 399000
205	**BGS Boreholes** BGS Reference: Sj89ne375 Drilled Length (m): 30 Borehole Name: Bradford Road Gasworks Cp4	A7NW (S)	110	3	386650 399000
205	**BGS Boreholes** BGS Reference: Sj89ne376 Drilled Length (m): 30 Borehole Name: Bradford Road Gasworks Cp5	A7NW (S)	110	3	386650 399000
205	**BGS Boreholes** BGS Reference: Sj89ne377 Drilled Length (m): 30 Borehole Name: Bradford Road Gasworks Cp6	A7NW (S)	110	3	386650 399000
205	**BGS Boreholes** BGS Reference: Sj89ne379 Drilled Length (m): 25 Borehole Name: Bradford Road Gasworks Cp7/2	A7NW (S)	110	3	386650 399000
205	**BGS Boreholes** BGS Reference: Sj89ne382 Drilled Length (m): 18 Borehole Name: Bradford Road Gasworks Rc3	A7NW (S)	110	3	386650 399000
205	**BGS Boreholes** BGS Reference: Sj89ne367 Drilled Length (m): 11 Borehole Name: Bradford Road Gasworks S13 Ab1	A7NW (S)	110	3	386650 399000
205	**BGS Boreholes** BGS Reference: Sj89ne372 Drilled Length (m): 26 Borehole Name: Bradford Road Gasworks Cp2/3	A7NW (S)	110	3	386650 399000
206	**BGS Boreholes** BGS Reference: Sj89ne349 Drilled Length (m): 120 Borehole Name: Bradford Road Gasworks S2/9 Kb2	A7NW (S)	110	3	386650 399000
206	**BGS Boreholes** BGS Reference: Sj89ne352 Drilled Length (m): 110 Borehole Name: Bradford Road Gasworks S10 Kb1	A7NW (S)	110	3	386650 399000
206	**BGS Boreholes** BGS Reference: Sj89ne356 Drilled Length (m): 58 Borehole Name: Bradford Road Gasworks S4 Kb2	A7NW (S)	110	3	386650 399000
206	**BGS Boreholes** BGS Reference: Sj89ne359 Drilled Length (m): 51 Borehole Name: Bradford Road Gasworks S5 Kb1	A7NW (S)	110	3	386650 399000
206	**BGS Boreholes** BGS Reference: Sj89ne366 Drilled Length (m): 57 Borehole Name: Bradford Road Gasworks S12 Kb1	A7NW (S)	110	3	386650 399000
206	**BGS Boreholes** BGS Reference: Sj89ne380 Drilled Length (m): 69 Borehole Name: Bradford Road Gasworks Rc1/4	A7NW (S)	110	3	386650 399000
206	**BGS Boreholes** BGS Reference: Sj89ne381 Drilled Length (m): 60 Borehole Name: Bradford Road Gasworks Rc2	A7NW (S)	110	3	386650 399000

BGS Boreholes Detail

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
207	**BGS Boreholes** BGS Reference: Sj89ne355 Drilled Length (m): 7 Borehole Name: Bradford Road Gasworks S4 Kb1	A7NW (S)	110	3	386650 399000
207	**BGS Boreholes** BGS Reference: Sj89ne364 Drilled Length (m): 9 Borehole Name: Bradford Road Gasworks S12 Ab1	A7NW (S)	110	3	386650 399000
207	**BGS Boreholes** BGS Reference: Sj89ne365 Drilled Length (m): 9 Borehole Name: Bradford Road Gasworks S12 Ab2	A7NW (S)	110	3	386650 399000
207	**BGS Boreholes** BGS Reference: Sj89ne370 Drilled Length (m): 1 Borehole Name: Bradford Road Gasworks Cp2/1	A7NW (S)	110	3	386650 399000
207	**BGS Boreholes** BGS Reference: Sj89ne371 Drilled Length (m): 2 Borehole Name: Bradford Road Gasworks Cp2/2	A7NW (S)	110	3	386650 399000
207	**BGS Boreholes** BGS Reference: Sj89ne374 Drilled Length (m): 9 Borehole Name: Bradford Road Gasworks Cp3/2	A7NW (S)	110	3	386650 399000
208	**BGS Boreholes** BGS Reference: Sj89ne363 Drilled Length (m): Not Supplied Borehole Name: Bradford Road Gasworks S10 Ab1	A7NW (S)	110	3	386650 399000
208	**BGS Boreholes** BGS Reference: Sj89ne373 Drilled Length (m): Not Supplied Borehole Name: Bradford Road Gasworks Cp3/1	A7NW (S)	110	3	386650 399000
208	**BGS Boreholes** BGS Reference: Sj89ne378 Drilled Length (m): Not Supplied Borehole Name: Bradford Road Gasworks Cp7/1	A7NW (S)	110	3	386650 399000
209	**BGS Boreholes** BGS Reference: Sj89ne515 Drilled Length (m): 10 Borehole Name: Intermediate Ring Road Mr2	A7NW (E)	125	3	386830 399090
209	**BGS Boreholes** BGS Reference: Sj89ne60 Drilled Length (m): 5.49 Borehole Name: Manchester Corp. Hulme Hall Lane	A7NW (E)	138	3	386839 399078
209	**BGS Boreholes** BGS Reference: Sj89ne514 Drilled Length (m): 7.2 Borehole Name: Intermediate Ring Road Mr1	A7NW (E)	156	3	386850 399060
210	**BGS Boreholes** BGS Reference: Sj89ne80 Drilled Length (m): 7.32 Borehole Name: Manchester Corp. Bradford Gas Works	A7NW (SE)	144	3	386809 399026
211	**BGS Boreholes** BGS Reference: Sj89ne2327 Drilled Length (m): 9 Borehole Name: Alan Turing Way Miles Platting Manchester 8	A11SW (N)	146	3	386640 399420
212	**BGS Boreholes** BGS Reference: Sj89ne384 Drilled Length (m): Not Supplied Borehole Name: Clifton Street 2	A11SW (N)	156	3	386650 399430
213	**BGS Boreholes** BGS Reference: Sj89ne79 Drilled Length (m): 4.57 Borehole Name: Manchester Corp. Bradford Gas Works	A7NW (SE)	160	3	386755 398961

BGS Boreholes Detail

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
214	**BGS Boreholes** BGS Reference: Sj89ne2345 Drilled Length (m): 4 Borehole Name: Alan Turing Way Miles Platting Manchester Tp14	A11SW (N)	169	3	386610 399440
214	**BGS Boreholes** BGS Reference: Sj89ne2326 Drilled Length (m): 10 Borehole Name: Alan Turing Way Miles Platting Manchester 7	A10SE (N)	187	3	386580 399450
214	**BGS Boreholes** BGS Reference: Sj89ne2339 Drilled Length (m): 4 Borehole Name: Alan Turing Way Miles Platting Manchester Tp8	A11NW (N)	197	3	386620 399470
214	**BGS Boreholes** BGS Reference: Sj89ne2344 Drilled Length (m): 4 Borehole Name: Alan Turing Way Miles Platting Manchester Tp13	A10NE (N)	206	3	386580 399470
214	**BGS Boreholes** BGS Reference: Sj89ne2334 Drilled Length (m): 4.05 Borehole Name: Alan Turing Way Miles Platting Manchester Tp3	A11NW (N)	216	3	386650 399490
214	**BGS Boreholes** BGS Reference: Sj89ne2338 Drilled Length (m): 3.95 Borehole Name: Alan Turing Way Miles Platting Manchester Tp7	A10NE (N)	222	3	386590 399490
214	**BGS Boreholes** BGS Reference: Sj89ne2322 Drilled Length (m): 10 Borehole Name: Alan Turing Way Miles Platting Manchester 3	A11NW (N)	228	3	386610 399500
215	**BGS Boreholes** BGS Reference: Sj89ne624 Drilled Length (m): 30.14 Borehole Name: Lower Medlock Ucso 517	A7NW (S)	187	3	386690 398900
216	**BGS Boreholes** BGS Reference: Sj89ne2311 Drilled Length (m): Not Supplied Borehole Name: Sandal Court And Sandal Street Ancoats Manchester 202	A10SE (W)	188	3	386340 399160
216	**BGS Boreholes** BGS Reference: Sj89ne2318 Drilled Length (m): Not Supplied Borehole Name: Sandal Court And Sandal Street Ancoats Manchester Tp 204	A10SE (W)	206	3	386310 399140
216	**BGS Boreholes** BGS Reference: Sj89ne2314 Drilled Length (m): Not Supplied Borehole Name: Sandal Court And Sandal Street Ancoats Manchester 205	A10SE (W)	220	3	386320 399190
216	**BGS Boreholes** BGS Reference: Sj89ne2313 Drilled Length (m): Not Supplied Borehole Name: Sandal Court And Sandal Street Ancoats Manchester 204	A6NE (W)	227	3	386280 399130
216	**BGS Boreholes** BGS Reference: Sj89ne2319 Drilled Length (m): Not Supplied Borehole Name: Sandal Court And Sandal Street Ancoats Manchester Tp 205	A6NE (W)	227	3	386280 399130
216	**BGS Boreholes** BGS Reference: Sj89ne2310 Drilled Length (m): Not Supplied Borehole Name: Sandal Court And Sandal Street Ancoats Manchester 201	A10SE (W)	229	3	386300 399170
216	**BGS Boreholes** BGS Reference: Sj89ne2316 Drilled Length (m): Not Supplied Borehole Name: Sandal Court And Sandal Street Ancoats Manchester Tp 202	A10SE (W)	229	3	386300 399170
216	**BGS Boreholes** BGS Reference: Sj89ne2312 Drilled Length (m): Not Supplied Borehole Name: Sandal Court And Sandal Street Ancoats Manchester 203	A10SW (W)	255	3	386260 399150

BGS Boreholes Detail

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
216	**BGS Boreholes** BGS Reference: Sj89ne2315 Drilled Length (m): Not Supplied Borehole Name: Sandal Court And Sandal Street Ancoats Manchester Tp 201	A10SW (W)	255	3	386260 399150
216	**BGS Boreholes** BGS Reference: Sj89ne2317 Drilled Length (m): Not Supplied Borehole Name: Sandal Court And Sandal Street Ancoats Manchester Tp 203	A10SW (W)	255	3	386260 399150
217	**BGS Boreholes** BGS Reference: Sj89ne77 Drilled Length (m): 11.58 Borehole Name: Manchester Corp. Bradford Gas Works	A7NW (S)	191	3	386613 398818
218	**BGS Boreholes** BGS Reference: Sj89ne2330 Drilled Length (m): 9 Borehole Name: Alan Turing Way Miles Platting Manchester 11	A10SE (N)	191	3	386520 399420
219	**BGS Boreholes** BGS Reference: Sj89ne2084 Drilled Length (m): Not Supplied Borehole Name: Ashton Canal Corridor Transco Pipeline Bht 2	A6SE (S)	208	3	386530 398780
219	**BGS Boreholes** BGS Reference: Sj89ne1631 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 15 2/15	A6SE (S)	247	3	386520 398740
219	**BGS Boreholes** BGS Reference: Sj89ne2083 Drilled Length (m): Not Supplied Borehole Name: Ashton Canal Corridor Transco Pipeline Bht 1	A6SE (S)	247	3	386520 398740
219	**BGS Boreholes** BGS Reference: Sj89ne1638 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 15 Th 3/15	A6SE (S)	257	3	386520 398730
219	**BGS Boreholes** BGS Reference: Sj89ne1648 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plots 16 & 17 Tp 1/16	A6SE (S)	260	3	386560 398730
219	**BGS Boreholes** BGS Reference: Sj89ne1643 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 15 Th 8/15	A6SE (S)	261	3	386480 398730
219	**BGS Boreholes** BGS Reference: Sj89ne1647 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plots 16 & 17 1/16	A6SE (S)	269	3	386550 398720
219	**BGS Boreholes** BGS Reference: Sj89ne2177 Drilled Length (m): Not Supplied Borehole Name: Manchester Metrolink-East Of Ardwick Vol 1 Bhz1	A6SE (S)	271	3	386480 398720
219	**BGS Boreholes** BGS Reference: Sj89ne1640 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 15 Th 5/15	A6SE (S)	278	3	386510 398710
219	**BGS Boreholes** BGS Reference: Sj89ne1632 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 15 3/15	A6SE (S)	280	3	386490 398710
219	**BGS Boreholes** BGS Reference: Sj89ne1637 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 15 Th 2/15	A6SE (S)	287	3	386530 398700
220	**BGS Boreholes** BGS Reference: Sj89ne2323 Drilled Length (m): 10 Borehole Name: Alan Turing Way Miles Platting Manchester 4	A11NW (N)	208	3	386670 399480

BGS Boreholes Detail

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
221	**BGS Boreholes** BGS Reference: Sj89ne2346 Drilled Length (m): 3.1 Borehole Name: Alan Turing Way Miles Platting Manchester Tp15	A10SE (N)	211	3	386500 399430
221	**BGS Boreholes** BGS Reference: Sj89ne2329 Drilled Length (m): 9 Borehole Name: Alan Turing Way Miles Platting Manchester 10	A10SE (N)	214	3	386520 399450
221	**BGS Boreholes** BGS Reference: Sj89ne2325 Drilled Length (m): 10 Borehole Name: Alan Turing Way Miles Platting Manchester 6	A10NE (N)	230	3	386540 399480
221	**BGS Boreholes** BGS Reference: Sj89ne2328 Drilled Length (m): 10 Borehole Name: Alan Turing Way Miles Platting Manchester 9	A10NE (N)	242	3	386500 399470
222	**BGS Boreholes** BGS Reference: Sj89ne78 Drilled Length (m): 6.1 Borehole Name: Manchester Corp. Bradford Gas Works	A7NW (S)	216	3	386708 398874
223	**BGS Boreholes** BGS Reference: Sj89ne625 Drilled Length (m): 20.27 Borehole Name: Lower Medlock Ucso 518	A7NW (SE)	223	3	386720 398880
223	**BGS Boreholes** BGS Reference: Sj89ne627 Drilled Length (m): 15 Borehole Name: Lower Medlock Ucso 519a	A7NW (SE)	250	3	386740 398860
224	**BGS Boreholes** BGS Reference: Sj89ne83 Drilled Length (m): 17.98 Borehole Name: Manchester Corp. Near Haven Street	A6SE (S)	229	3	386595 398769
224	**BGS Boreholes** BGS Reference: Sj89ne76 Drilled Length (m): 17.83 Borehole Name: Manchester Corp. Bradford Gas Works	A6SE (S)	252	3	386580 398742
224	**BGS Boreholes** BGS Reference: Sj89ne1449 Drilled Length (m): 13.1 Borehole Name: Manchester Stadium Phase1 A37	A7SW (S)	276	3	386611 398725
225	**BGS Boreholes** BGS Reference: Sj89ne2042 Drilled Length (m): Not Supplied Borehole Name: Alan Turing Way Phase 2 Miles Platting Manchester 10a	A11NW (N)	229	3	386680 399500
225	**BGS Boreholes** BGS Reference: Sj89ne2055 Drilled Length (m): Not Supplied Borehole Name: Alan Turing Way Phase 2 Miles Platting Manchester Tp13a	A11NW (N)	246	3	386650 399520
225	**BGS Boreholes** BGS Reference: Sj89ne385 Drilled Length (m): Not Supplied Borehole Name: Clifton Street 3	A11NW (N)	270	3	386730 399530
225	**BGS Boreholes** BGS Reference: Sj89ne2052 Drilled Length (m): Not Supplied Borehole Name: Alan Turing Way Phase 2 Miles Platting Manchester Tp10a	A11NW (N)	270	3	386690 399540
225	**BGS Boreholes** BGS Reference: Sj89ne2051 Drilled Length (m): Not Supplied Borehole Name: Alan Turing Way Phase 2 Miles Platting Manchester Tp9a	A11NW (N)	296	3	386650 399570
225	**BGS Boreholes** BGS Reference: Sj89ne2037 Drilled Length (m): Not Supplied Borehole Name: Alan Turing Way Phase 2 Miles Platting Manchester 5a	A11NW (N)	298	3	386680 399570

BGS Boreholes Detail

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
225	**BGS Boreholes** BGS Reference: Sj89ne2038 Drilled Length (m): Not Supplied Borehole Name: Alan Turing Way Phase 2 Miles Platting Manchester 6a	A11NW (N)	299	3	386730 399560
225	**BGS Boreholes** BGS Reference: Sj89ne2048 Drilled Length (m): Not Supplied Borehole Name: Alan Turing Way Phase 2 Miles Platting Manchester Tp6a	A11NW (N)	301	3	386700 399570
226	**BGS Boreholes** BGS Reference: Sj89ne2333 Drilled Length (m): 4 Borehole Name: Alan Turing Way Miles Platting Manchester Tp2	A11NW (N)	248	3	386610 399520
227	**BGS Boreholes** BGS Reference: Sj89ne1653 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 18 Th 3/18	A6SE (S)	249	3	386600 398750
227	**BGS Boreholes** BGS Reference: Sj89ne1654 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 19 R1/19	A7SW (S)	260	3	386650 398760
227	**BGS Boreholes** BGS Reference: Sj89ne2178 Drilled Length (m): Not Supplied Borehole Name: Manchester Metrolink-East Of Ardwick Vol 1 Bhz2	A7SW (S)	262	3	386610 398740
227	**BGS Boreholes** BGS Reference: Sj89ne1658 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 19 1/19	A7SW (S)	264	3	386640 398750
227	**BGS Boreholes** BGS Reference: Sj89ne1652 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 18 Th 2/18	A6SE (S)	266	3	386590 398730
227	**BGS Boreholes** BGS Reference: Sj89ne1657 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 19 Th 3/19	A7SW (S)	269	3	386630 398740
227	**BGS Boreholes** BGS Reference: Sj89ne1656 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 19 Th 2/19	A7SW (S)	282	3	386660 398740
227	**BGS Boreholes** BGS Reference: Sj89ne1651 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 18 Th 1/18	A7SW (S)	293	3	386620 398710
227	**BGS Boreholes** BGS Reference: Sj89ne1650 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 18 1/18	A6SE (S)	297	3	386600 398700
228	**BGS Boreholes** BGS Reference: Sj89ne2337 Drilled Length (m): 4 Borehole Name: Alan Turing Way Miles Platting Manchester Tp6	A10NE (N)	254	3	386580 399520
228	**BGS Boreholes** BGS Reference: Sj89ne2321 Drilled Length (m): 10 Borehole Name: Alan Turing Way Miles Platting Manchester 2	A10NE (N)	261	3	386590 399530
228	**BGS Boreholes** BGS Reference: Sj89ne2342 Drilled Length (m): 4 Borehole Name: Alan Turing Way Miles Platting Manchester Tp11	A10NE (N)	261	3	386530 399510
228	**BGS Boreholes** BGS Reference: Sj89ne2341 Drilled Length (m): 3.9 Borehole Name: Alan Turing Way Miles Platting Manchester Tp10	A10NE (N)	279	3	386510 399520

BGS Boreholes Detail

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
228	**BGS Boreholes** BGS Reference: Sj89ne2336 Drilled Length (m): 3.8 Borehole Name: Alan Turing Way Miles Platting Manchester Tp5	A10NE (N)	291	3	386550 399550
228	**BGS Boreholes** BGS Reference: Sj89ne2332 Drilled Length (m): 4 Borehole Name: Alan Turing Way Miles Platting Manchester Tp1	A10NE (N)	295	3	386570 399560
228	**BGS Boreholes** BGS Reference: Sj89ne2335 Drilled Length (m): 4 Borehole Name: Alan Turing Way Miles Platting Manchester Tp4	A10NE (N)	307	3	386530 399560
228	**BGS Boreholes** BGS Reference: Sj89ne2320 Drilled Length (m): 9 Borehole Name: Alan Turing Way Miles Platting Manchester 1	A10NE (N)	310	3	386550 399570
229	**BGS Boreholes** BGS Reference: Sj89ne2041 Drilled Length (m): Not Supplied Borehole Name: Alan Turing Way Phase 2 Miles Platting Manchester 9a	A11NW (N)	256	3	386640 399530
230	**BGS Boreholes** BGS Reference: Sj89ne2271 Drilled Length (m): Not Supplied Borehole Name: Saxon Street Manchester A	A6NW (SW)	259	3	386220 398960
231	**BGS Boreholes** BGS Reference: Sj89ne211 Drilled Length (m): 65 Borehole Name: Eastlands R5	A7NW (SE)	260	3	386870 398920
232	**BGS Boreholes** BGS Reference: Sj89ne243 Drilled Length (m): Not Supplied Borehole Name: Holt Town B	A6NW (SW)	261	3	386261 398853
232	**BGS Boreholes** BGS Reference: Sj89ne242 Drilled Length (m): Not Supplied Borehole Name: Holt Town A	A6NW (SW)	306	3	386225 398825
233	**BGS Boreholes** BGS Reference: Sj89ne626 Drilled Length (m): 30.05 Borehole Name: Lower Medlock Ucso 519	A7NW (SE)	261	3	386740 398840
234	**BGS Boreholes** BGS Reference: Sj89ne2324 Drilled Length (m): 11 Borehole Name: Alan Turing Way Miles Platting Manchester 5	A10NE (N)	262	3	386510 399500
235	**BGS Boreholes** BGS Reference: Sj89ne1668 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 26 Th7/26	A7NW (SE)	267	3	386870 398910
235	**BGS Boreholes** BGS Reference: Sj89ne1667 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 26 Th6/26	A7NW (SE)	276	3	386860 398890
235	**BGS Boreholes** BGS Reference: Sj89ne1666 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 26 Th5/26	A7NW (SE)	296	3	386880 398880
236	**BGS Boreholes** BGS Reference: Sj89ne2054 Drilled Length (m): Not Supplied Borehole Name: Alan Turing Way Phase 2 Miles Platting Manchester Tp12a	A11NW (N)	267	3	386620 399540
236	**BGS Boreholes** BGS Reference: Sj89ne2040 Drilled Length (m): Not Supplied Borehole Name: Alan Turing Way Phase 2 Miles Platting Manchester 8a	A10NE (N)	291	3	386590 399560

BGS Boreholes Detail

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
236	**BGS Boreholes** BGS Reference: Sj89ne2053 Drilled Length (m): Not Supplied Borehole Name: Alan Turing Way Phase 2 Miles Platting Manchester Tp11a	A10NE (N)	314	3	386570 399580
236	**BGS Boreholes** BGS Reference: Sj89ne2050 Drilled Length (m): Not Supplied Borehole Name: Alan Turing Way Phase 2 Miles Platting Manchester Tp8a	A11NW (N)	317	3	386620 399590
236	**BGS Boreholes** BGS Reference: Sj89ne2039 Drilled Length (m): Not Supplied Borehole Name: Alan Turing Way Phase 2 Miles Platting Manchester 7a	A10NE (N)	336	3	386560 399600
237	**BGS Boreholes** BGS Reference: Sj89ne1479 Drilled Length (m): 4.5 Borehole Name: Manchester Stadium Phase1 Tpa13	A6SE (S)	273	3	386578 398720
238	**BGS Boreholes** BGS Reference: Sj89ne54 Drilled Length (m): 7.62 Borehole Name: Manchester Corp. Clifton Street	A11NW (N)	275	3	386724 399537
239	**BGS Boreholes** BGS Reference: Sj89ne1420 Drilled Length (m): 38 Borehole Name: Manchester Stadium Phase1 A11	A6SE (S)	278	3	386499 398711
240	**BGS Boreholes** BGS Reference: Sj89ne1634 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 15 5/15	A6SE (S)	278	3	386450 398720
240	**BGS Boreholes** BGS Reference: Sj89ne1645 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 15 Th 10/15	A6SE (S)	295	3	386460 398700
241	**BGS Boreholes** BGS Reference: Sj89ne1478 Drilled Length (m): 4.5 Borehole Name: Manchester Stadium Phase1 Tpa12	A7SW (S)	279	3	386643 398735
242	**BGS Boreholes** BGS Reference: Sj89ne1655 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 19 Th 1/19	A7SW (S)	281	3	386690 398760
243	**BGS Boreholes** BGS Reference: Sj89ne2306 Drilled Length (m): Not Supplied Borehole Name: Sandal Court And Sandal Street Ancoats Manchester 102	A6NW (W)	286	3	386200 399090
243	**BGS Boreholes** BGS Reference: Sj89ne2307 Drilled Length (m): Not Supplied Borehole Name: Sandal Court And Sandal Street Ancoats Manchester Tp 101	A6NW (W)	290	3	386190 399060
243	**BGS Boreholes** BGS Reference: Sj89ne2305 Drilled Length (m): Not Supplied Borehole Name: Sandal Court And Sandal Street Ancoats Manchester 101	A6NW (W)	299	3	386180 399050
243	**BGS Boreholes** BGS Reference: Sj89ne2309 Drilled Length (m): Not Supplied Borehole Name: Sandal Court And Sandal Street Ancoats Manchester Tp 102a	A6NW (W)	310	3	386170 399060
243	**BGS Boreholes** BGS Reference: Sj89ne2308 Drilled Length (m): Not Supplied Borehole Name: Sandal Court And Sandal Street Ancoats Manchester Tp 102	A6NW (W)	311	3	386170 399070
244	**BGS Boreholes** BGS Reference: Sj89ne245 Drilled Length (m): Not Supplied Borehole Name: Holt Town D	A6SE (SW)	290	3	386275 398791

BGS Boreholes Detail

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
244	**BGS Boreholes** BGS Reference: Sj89ne244 Drilled Length (m): Not Supplied Borehole Name: Holt Town C	A6SW (SW)	325	3	386231 398787
244	**BGS Boreholes** BGS Reference: Sj89ne246 Drilled Length (m): Not Supplied Borehole Name: Holt Town E	A6SW (SW)	329	3	386249 398763
245	**BGS Boreholes** BGS Reference: Sj89ne1649 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plots 16 & 17 Tp 2/16	A6SE (S)	291	3	386570 398700
245	**BGS Boreholes** BGS Reference: Sj89ne1646 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plots 16 & 17 R/16	A6SE (S)	301	3	386570 398690
246	**BGS Boreholes** BGS Reference: Sj89ne2273 Drilled Length (m): Not Supplied Borehole Name: Saxon Street Manchester C	A6NW (SW)	292	3	386210 398880
246	**BGS Boreholes** BGS Reference: Sj89ne2272 Drilled Length (m): Not Supplied Borehole Name: Saxon Street Manchester B	A6NW (SW)	306	3	386180 398920
247	**BGS Boreholes** BGS Reference: Sj89ne1480 Drilled Length (m): 4.5 Borehole Name: Manchester Stadium Phase1 Tpa14	A6SE (S)	294	3	386465 398700
248	**BGS Boreholes** BGS Reference: Sj89ne1473 Drilled Length (m): 21 Borehole Name: Manchester Stadium Phase1 Pha05	A7SW (S)	295	3	386689 398743
249	**BGS Boreholes** BGS Reference: Sj89ne1642 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 15 Th 7/15	A6SE (S)	299	3	386490 398690
249	**BGS Boreholes** BGS Reference: Sj89ne1630 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 15 1/15	A6SE (S)	307	3	386530 398680
249	**BGS Boreholes** BGS Reference: Sj89ne1639 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 15 Th 4/15	A6SE (S)	307	3	386520 398680
249	**BGS Boreholes** BGS Reference: Sj89ne1636 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 15 Th 1/15	A6SE (S)	318	3	386550 398670
249	**BGS Boreholes** BGS Reference: Sj89ne1635 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 15 R1/15	A6SE (S)	327	3	386520 398660
249	**BGS Boreholes** BGS Reference: Sj89ne1644 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 15 Th 9/15	A6SE (S)	331	3	386480 398660
249	**BGS Boreholes** BGS Reference: Sj89ne1633 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 15 4/15	A6SE (S)	332	3	386470 398660
249	**BGS Boreholes** BGS Reference: Sj89ne1641 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 15 Th 6/15	A6SE (S)	338	3	386500 398650

BGS Boreholes Detail

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
250	**BGS Boreholes** BGS Reference: Sj89ne1665 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 26 Th4/26	A7NW (SE)	300	3	386860 398860
250	**BGS Boreholes** BGS Reference: Sj89ne1660 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 26 Bh1/26	A7NW (SE)	304	3	386880 398870
250	**BGS Boreholes** BGS Reference: Sj89ne1663 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 26 Th2/26	A7NW (SE)	325	3	386860 398830
250	**BGS Boreholes** BGS Reference: Sj89ne1664 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 26 Th3/26	A7NW (SE)	326	3	386890 398850
250	**BGS Boreholes** BGS Reference: Sj89ne1661 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 26 Bh2/26	A7NW (SE)	334	3	386860 398820
250	**BGS Boreholes** BGS Reference: Sj89ne1662 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 26 Th1/26	A7NW (SE)	350	3	386890 398820
250	**BGS Boreholes** BGS Reference: Sj89ne1670 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 29 Th1/29	A7NW (SE)	356	3	386870 398800
250	**BGS Boreholes** BGS Reference: Sj89ne1671 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 29 Th2/29	A7NW (SE)	372	3	386900 398800
251	**BGS Boreholes** BGS Reference: Sj89ne2187 Drilled Length (m): Not Supplied Borehole Name: Manchester Metrolink-Additional Works Tpa1	A7SW (S)	300	3	386720 398760
251	**BGS Boreholes** BGS Reference: Sj89ne1624 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 14 Th 1/14	A7SW (S)	313	3	386670 398710
251	**BGS Boreholes** BGS Reference: Sj89ne1622 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 14 1/14	A7SW (S)	327	3	386680 398700
251	**BGS Boreholes** BGS Reference: Sj89ne1413 Drilled Length (m): Not Supplied Borehole Name: Manchester Stadium Phase 1 A04	A7SW (S)	333	3	386713 398713
251	**BGS Boreholes** BGS Reference: Sj89ne1625 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 14 Th 2/14	A7SW (S)	340	3	386690 398690
252	**BGS Boreholes** BGS Reference: Sj89ne2199 Drilled Length (m): Not Supplied Borehole Name: Manchester Metrolink-Additional Works Vol 2 Bhz3	A6SE (SW)	300	3	386370 398720
252	**BGS Boreholes** BGS Reference: Sj89ne2204 Drilled Length (m): Not Supplied Borehole Name: Manchester Metrolink-Additional Works Vol 2 Tpz10	A6SE (SW)	307	3	386380 398710
252	**BGS Boreholes** BGS Reference: Sj89ne2202 Drilled Length (m): Not Supplied Borehole Name: Manchester Metrolink-Additional Works Vol 2 Tpz8	A6SE (SW)	308	3	386350 398720

BGS Boreholes Detail

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
252	**BGS Boreholes** BGS Reference: Sj89ne2200 Drilled Length (m): Not Supplied Borehole Name: Manchester Metrolink-Additional Works Vol 2 Bhz5	A6SE (SW)	310	3	386370 398710
252	**BGS Boreholes** BGS Reference: Sj89ne2203 Drilled Length (m): Not Supplied Borehole Name: Manchester Metrolink-Additional Works Vol 2 Tpz9	A6SE (SW)	319	3	386370 398700
252	**BGS Boreholes** BGS Reference: Sj89ne2206 Drilled Length (m): Not Supplied Borehole Name: Manchester Metrolink-Additional Works Vol 2 Tpz13	A6SE (SW)	333	3	386390 398680
252	**BGS Boreholes** BGS Reference: Sj89ne2205 Drilled Length (m): Not Supplied Borehole Name: Manchester Metrolink-Additional Works Vol 2 Tpz12	A6SE (SW)	341	3	386360 398680
253	**BGS Boreholes** BGS Reference: Sj89ne2472 Drilled Length (m): 6.9 Borehole Name: Briscoe Lane, Newton Heath, Manchester 5	A11SW (NE)	300	3	386926 399453
253	**BGS Boreholes** BGS Reference: Sj89ne2468 Drilled Length (m): 5 Borehole Name: Briscoe Lane, Newton Heath, Manchester 1	A11NW (NE)	307	3	386911 399476
253	**BGS Boreholes** BGS Reference: Sj89ne2469 Drilled Length (m): 5 Borehole Name: Briscoe Lane, Newton Heath, Manchester 2	A11SW (NE)	316	3	386939 399463
253	**BGS Boreholes** BGS Reference: Sj89ne2470 Drilled Length (m): 6 Borehole Name: Briscoe Lane, Newton Heath, Manchester 3	A11NW (NE)	316	3	386928 399473
253	**BGS Boreholes** BGS Reference: Sj89ne2471 Drilled Length (m): 8.3 Borehole Name: Briscoe Lane, Newton Heath, Manchester 4	A11NW (NE)	323	3	386925 399485
254	**BGS Boreholes** BGS Reference: Sj89ne2340 Drilled Length (m): 3.9 Borehole Name: Alan Turing Way Miles Platting Manchester Tp9	A10NE (N)	302	3	386500 399540
255	**BGS Boreholes** BGS Reference: Sj89ne1477 Drilled Length (m): 4.5 Borehole Name: Manchester Stadium Phase1 Tpa11	A7SW (S)	309	3	386652 398706
255	**BGS Boreholes** BGS Reference: Sj89ne1476 Drilled Length (m): 4.5 Borehole Name: Manchester Stadium Phase1 Tpa10	A7SW (S)	325	3	386694 398710
256	**BGS Boreholes** BGS Reference: Sj89ne2082 Drilled Length (m): Not Supplied Borehole Name: Ashton Canal Corridor Medlock Structures Bhz 4	A6SE (SW)	312	3	386340 398720
256	**BGS Boreholes** BGS Reference: Sj89ne2207 Drilled Length (m): Not Supplied Borehole Name: Manchester Metrolink-Additional Works Vol 3 Bhz4	A6SE (SW)	312	3	386340 398720
256	**BGS Boreholes** BGS Reference: Sj89ne247 Drilled Length (m): Not Supplied Borehole Name: Holt Town F	A6SE (SW)	314	3	386302 398740
256	**BGS Boreholes** BGS Reference: Sj89ne2081 Drilled Length (m): Not Supplied Borehole Name: Ashton Canal Corridor Medlock Structures Bhx 2	A6SE (SW)	321	3	386340 398710

BGS Boreholes Detail

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
256	**BGS Boreholes** BGS Reference: Sj89ne2080 Drilled Length (m): Not Supplied Borehole Name: Ashton Canal Corridor Medlock Structures Bhx 1	A6SE (SW)	335	3	386330 398700
256	**BGS Boreholes** BGS Reference: Sj89ne2201 Drilled Length (m): Not Supplied Borehole Name: Manchester Metrolink-Additional Works Vol 2 Tpz7	A6SE (SW)	335	3	386310 398710
257	**BGS Boreholes** BGS Reference: Sj89ne1481 Drilled Length (m): 4.5 Borehole Name: Manchester Stadium Phase1 Tpa15	A6SE (S)	315	3	386503 398673
257	**BGS Boreholes** BGS Reference: Sj89ne1482 Drilled Length (m): 4.5 Borehole Name: Manchester Stadium Phase1 Tpa16	A6SE (S)	324	3	386536 398664
258	**BGS Boreholes** BGS Reference: Sj89ne1483 Drilled Length (m): 4.5 Borehole Name: Manchester Stadium Phase1 Tpa17	A6SE (S)	327	3	386595 398668
258	**BGS Boreholes** BGS Reference: Sj89ne1484 Drilled Length (m): 4.2 Borehole Name: Manchester Stadium Phase1 Tpa18	A7SW (S)	347	3	386647 398663
258	**BGS Boreholes** BGS Reference: Sj89ne1486 Drilled Length (m): 4.5 Borehole Name: Manchester Stadium Phase1 Tpa20	A7SW (S)	370	3	386623 398631
259	**BGS Boreholes** BGS Reference: Sj89ne2047 Drilled Length (m): Not Supplied Borehole Name: Alan Turing Way Phase 2 Miles Platting Manchester Tp5a	A11NW (N)	327	3	386670 399600
260	**BGS Boreholes** BGS Reference: Sj89ne2189 Drilled Length (m): Not Supplied Borehole Name: Manchester Metrolink-Additional Works Tpa3	A7SW (SE)	328	3	386770 398770
260	**BGS Boreholes** BGS Reference: Sj89ne2190 Drilled Length (m): Not Supplied Borehole Name: Manchester Metrolink-Additional Works Tpa4	A7SW (SE)	328	3	386770 398770
260	**BGS Boreholes** BGS Reference: Sj89ne2188 Drilled Length (m): Not Supplied Borehole Name: Manchester Metrolink-Additional Works Tpa2	A7SW (SE)	335	3	386770 398760
260	**BGS Boreholes** BGS Reference: Sj89ne2191 Drilled Length (m): Not Supplied Borehole Name: Manchester Metrolink-Additional Works Tpa5	A7SW (SE)	335	3	386780 398770
260	**BGS Boreholes** BGS Reference: Sj89ne2192 Drilled Length (m): Not Supplied Borehole Name: Manchester Metrolink-Additional Works Tpa6	A7SW (SE)	342	3	386780 398760
260	**BGS Boreholes** BGS Reference: Sj89ne2193 Drilled Length (m): Not Supplied Borehole Name: Manchester Metrolink-Additional Works Tpa7	A7SW (SE)	343	3	386790 398770
261	**BGS Boreholes** BGS Reference: Sj89ne75 Drilled Length (m): 19.2 Borehole Name: Manchester Corp. Phillips Park Road	A6SE (S)	345	3	386531 398643
261	**BGS Boreholes** BGS Reference: Sj89ne1448 Drilled Length (m): 11.8 Borehole Name: Manchester Stadium Phase1 A36	A6SE (S)	357	3	386483 398633

BGS Boreholes Detail

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
262	**BGS Boreholes** BGS Reference: Sj89ne1554 Drilled Length (m): 4.5 Borehole Name: Manchester Stadium Phase1 Tpa104	A6SE (S)	345	3	386470 398647
263	**BGS Boreholes** BGS Reference: Sj89ne2036 Drilled Length (m): Not Supplied Borehole Name: Alan Turing Way Phase 2 Miles Platting Manchester 4a	A11NW (N)	346	3	386650 399620
263	**BGS Boreholes** BGS Reference: Sj89ne2035 Drilled Length (m): Not Supplied Borehole Name: Alan Turing Way Phase 2 Miles Platting Manchester 3a	A11NW (N)	357	3	386610 399630
263	**BGS Boreholes** BGS Reference: Sj89ne2046 Drilled Length (m): Not Supplied Borehole Name: Alan Turing Way Phase 2 Miles Platting Manchester Tp4a	A11NW (N)	367	3	386670 399640
263	**BGS Boreholes** BGS Reference: Sj89ne2034 Drilled Length (m): Not Supplied Borehole Name: Alan Turing Way Phase 2 Miles Platting Manchester 2a	A11NW (N)	386	3	386660 399660
263	**BGS Boreholes** BGS Reference: Sj89ne2045 Drilled Length (m): Not Supplied Borehole Name: Alan Turing Way Phase 2 Miles Platting Manchester Tp3a	A11NW (N)	386	3	386640 399660
264	**BGS Boreholes** BGS Reference: Sj89ne2049 Drilled Length (m): Not Supplied Borehole Name: Alan Turing Way Phase 2 Miles Platting Manchester Tp7a	A10NE (N)	350	3	386590 399620
265	**BGS Boreholes** BGS Reference: Sj89ne1591 Drilled Length (m): 85 Borehole Name: Manchester Stadium Phase1 Shf1	A7SW (SE)	353	3	386794 398759
266	**BGS Boreholes** BGS Reference: Sj89ne1592 Drilled Length (m): 18 Borehole Name: Manchester Stadium Phase1 Shf2	A7SW (SE)	356	3	386793 398754
266	**BGS Boreholes** BGS Reference: Sj89ne1450 Drilled Length (m): 14.9 Borehole Name: Manchester Stadium Phase1 A38	A7SW (SE)	386	3	386828 398747
267	**BGS Boreholes** BGS Reference: Sj89ne386 Drilled Length (m): Not Supplied Borehole Name: Clifton Street 4	A11NW (N)	359	3	386770 399610
268	**BGS Boreholes** BGS Reference: Sj89ne1626 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 14 Th 3/14	A7SW (S)	364	3	386660 398650
268	**BGS Boreholes** BGS Reference: Sj89ne1627 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 14 Th 4/14	A7SW (S)	367	3	386690 398660
268	**BGS Boreholes** BGS Reference: Sj89ne1623 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 14 2/14	A7SW (S)	385	3	386690 398640
268	**BGS Boreholes** BGS Reference: Sj89ne1628 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 14 Th 5/14	A7SW (S)	386	3	386670 398630
268	**BGS Boreholes** BGS Reference: Sj89ne1629 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 14 Th 6/14	A7SW (S)	389	3	386700 398640

BGS Boreholes Detail

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
269	**BGS Boreholes** BGS Reference: Sj89ne674 Drilled Length (m): 15.2 Borehole Name: I. R. R. Access Ramp 2	A10NE (NW)	367	3	386370 399520
269	**BGS Boreholes** BGS Reference: Sj89ne509 Drilled Length (m): 13 Borehole Name: Intermediate Ring Road Hc2	A10NE (NW)	402	3	386370 399570
269	**BGS Boreholes** BGS Reference: Sj89ne510 Drilled Length (m): 25 Borehole Name: Intermediate Ring Road Hc4	A10NE (NW)	410	3	386340 399550
269	**BGS Boreholes** BGS Reference: Sj89ne508 Drilled Length (m): 12.2 Borehole Name: Intermediate Ring Road Hc1	A10NE (NW)	424	3	386360 399590
270	**BGS Boreholes** BGS Reference: Sj89ne141 Drilled Length (m): Not Supplied Borehole Name: Boring At Benson Street	A7SW (S)	368	3	386761 398705
271	**BGS Boreholes** BGS Reference: Sj89ne1485 Drilled Length (m): 4.5 Borehole Name: Manchester Stadium Phase1 Tpa19	A7SW (S)	368	3	386652 398642
271	**BGS Boreholes** BGS Reference: Sj89ne1487 Drilled Length (m): 4.5 Borehole Name: Manchester Stadium Phase1 Tpa21	A7SW (S)	375	3	386700 398656
271	**BGS Boreholes** BGS Reference: Sj89ne1498 Drilled Length (m): 4.5 Borehole Name: Manchester Stadium Phase1 Tpa34	A7SW (S)	398	3	386685 398623
271	**BGS Boreholes** BGS Reference: Sj89ne1499 Drilled Length (m): 4.5 Borehole Name: Manchester Stadium Phase1 Tpa35	A7SW (S)	425	3	386671 398588
272	**BGS Boreholes** BGS Reference: Sj89ne1672 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 29 Th3/29	A7NW (SE)	368	3	386920 398820
272	**BGS Boreholes** BGS Reference: Sj89ne1669 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 29 Bh1/29	A7NW (SE)	378	3	386910 398800
273	**BGS Boreholes** BGS Reference: Sj89ne1422 Drilled Length (m): 30.95 Borehole Name: Manchester Stadium Phase1 A12	A6SE (S)	371	3	386596 398623
274	**BGS Boreholes** BGS Reference: Sj89ne1475 Drilled Length (m): 3.3 Borehole Name: Manchester Stadium Phase1 Tpa09	A7SW (S)	372	3	386763 398702
274	**BGS Boreholes** BGS Reference: Sj89ne1474 Drilled Length (m): 3.3 Borehole Name: Manchester Stadium Phase1 Tpa08	A7SW (SE)	385	3	386792 398710
274	**BGS Boreholes** BGS Reference: Sj89ne1570 Drilled Length (m): 3 Borehole Name: Manchester Stadium Phase1 Tpa120	A7SW (SE)	403	3	386800 398693
275	**BGS Boreholes** BGS Reference: Sj89ne1574 Drilled Length (m): 3 Borehole Name: Manchester Stadium Phase1 Tpa124	A7SW (S)	376	3	386730 398672

BGS Boreholes Detail

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
275	**BGS Boreholes** BGS Reference: Sj89ne1573 Drilled Length (m): 3 Borehole Name: Manchester Stadium Phase1 Tpa123	A7SW (S)	377	3	386757 398691
275	**BGS Boreholes** BGS Reference: Sj89ne1489 Drilled Length (m): 3.2 Borehole Name: Manchester Stadium Phase1 Tpa22a	A7SW (S)	394	3	386760 398672
275	**BGS Boreholes** BGS Reference: Sj89ne1571 Drilled Length (m): 3.3 Borehole Name: Manchester Stadium Phase1 Tpa121	A7SW (SE)	394	3	386788 398695
275	**BGS Boreholes** BGS Reference: Sj89ne1572 Drilled Length (m): 3 Borehole Name: Manchester Stadium Phase1 Tpa122	A7SW (S)	395	3	386755 398666
275	**BGS Boreholes** BGS Reference: Sj89ne1488 Drilled Length (m): 2.4 Borehole Name: Manchester Stadium Phase1 Tpa22	A7SW (S)	405	3	386760 398658
275	**BGS Boreholes** BGS Reference: Sj89ne1569 Drilled Length (m): 3.3 Borehole Name: Manchester Stadium Phase1 Tpa119	A7SW (SE)	417	3	386799 398673
275	**BGS Boreholes** BGS Reference: Sj89ne1566 Drilled Length (m): 3 Borehole Name: Manchester Stadium Phase1 Tpa116	A7SW (S)	421	3	386773 398648
275	**BGS Boreholes** BGS Reference: Sj89ne1568 Drilled Length (m): 3 Borehole Name: Manchester Stadium Phase1 Tpa118	A7SW (S)	430	3	386793 398652
275	**BGS Boreholes** BGS Reference: Sj89ne1490 Drilled Length (m): 1.8 Borehole Name: Manchester Stadium Phase1 Tpa23	A7SW (SE)	434	3	386816 398666
275	**BGS Boreholes** BGS Reference: Sj89ne1497 Drilled Length (m): 4.5 Borehole Name: Manchester Stadium Phase1 Tpa33	A7SW (S)	434	3	386769 398629
275	**BGS Boreholes** BGS Reference: Sj89ne1567 Drilled Length (m): 3 Borehole Name: Manchester Stadium Phase1 Tpa117	A7SW (S)	440	3	386789 398636
275	**BGS Boreholes** BGS Reference: Sj89ne1444 Drilled Length (m): 2 Borehole Name: Manchester Stadium Phase1 A33b	A7SW (S)	449	3	386782 398620
275	**BGS Boreholes** BGS Reference: Sj89ne1442 Drilled Length (m): 1.4 Borehole Name: Manchester Stadium Phase1 A33	A7SW (S)	451	3	386787 398620
275	**BGS Boreholes** BGS Reference: Sj89ne1443 Drilled Length (m): 2 Borehole Name: Manchester Stadium Phase1 A33a	A7SW (S)	457	3	386792 398617
275	**BGS Boreholes** BGS Reference: Sj89ne1561 Drilled Length (m): 2 Borehole Name: Manchester Stadium Phase1 Tpa111a	A7SW (S)	460	3	386797 398617
276	**BGS Boreholes** BGS Reference: Sj89ne1501 Drilled Length (m): 4.5 Borehole Name: Manchester Stadium Phase1 Tpa37	A6SE (S)	377	3	386561 398612

BGS Boreholes Detail

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
276	**BGS Boreholes** BGS Reference: Sj89ne1557 Drilled Length (m): 3.6 Borehole Name: Manchester Stadium Phase1 Tpa108	A6SE (S)	385	3	386522 398602
276	**BGS Boreholes** BGS Reference: Sj89ne1558 Drilled Length (m): 1.5 Borehole Name: Manchester Stadium Phase1 Tpa109	A6SE (S)	411	3	386578 398580
277	**BGS Boreholes** BGS Reference: Sj89ne2056 Drilled Length (m): Not Supplied Borehole Name: Ashton Canal Corridor Holt Town Industrial Estate Vol 1 Bhw 1	A6SW (SW)	378	3	386260 398690
277	**BGS Boreholes** BGS Reference: Sj89ne2061 Drilled Length (m): Not Supplied Borehole Name: Ashton Canal Corridor Holt Town Industrial Estate Vol 1 Bhw 5	A6SW (SW)	381	3	386230 398710
277	**BGS Boreholes** BGS Reference: Sj89ne248 Drilled Length (m): Not Supplied Borehole Name: Holt Town H	A6SW (SW)	395	3	386219 398701
277	**BGS Boreholes** BGS Reference: Sj89ne2057 Drilled Length (m): Not Supplied Borehole Name: Ashton Canal Corridor Holt Town Industrial Estate Vol 1 Bhw 2	A6SW (SW)	406	3	386240 398670
277	**BGS Boreholes** BGS Reference: Sj89ne2058 Drilled Length (m): Not Supplied Borehole Name: Ashton Canal Corridor Holt Town Industrial Estate Vol 1 Bhw 3	A6SW (SW)	409	3	386210 398690
277	**BGS Boreholes** BGS Reference: Sj89ne2059 Drilled Length (m): Not Supplied Borehole Name: Ashton Canal Corridor Holt Town Industrial Estate Vol 1 Bhw 3a	A6SW (SW)	409	3	386210 398690
277	**BGS Boreholes** BGS Reference: Sj89ne249 Drilled Length (m): Not Supplied Borehole Name: Holt Town J	A6SW (SW)	423	3	386170 398709
277	**BGS Boreholes** BGS Reference: Sj89ne2060 Drilled Length (m): Not Supplied Borehole Name: Ashton Canal Corridor Holt Town Industrial Estate Vol 1 Bhw 4	A6SW (SW)	434	3	386220 398650
277	**BGS Boreholes** BGS Reference: Sj89ne250 Drilled Length (m): Not Supplied Borehole Name: Holt Town K	A6SW (SW)	437	3	386188 398672
278	**BGS Boreholes** BGS Reference: Sj89ne1104 Drilled Length (m): Not Supplied Borehole Name: Briscoe Lane/Riverpark Road 5	A11SE (NE)	387	3	387060 399420
279	**BGS Boreholes** BGS Reference: Sj89ne212 Drilled Length (m): 64 Borehole Name: Eastlands R6	A6SE (S)	388	3	386510 398600
280	**BGS Boreholes** BGS Reference: Sj89ne673 Drilled Length (m): 31 Borehole Name: I. R. R. Access Ramp 1	A10NE (NW)	395	3	386350 399540
281	**BGS Boreholes** BGS Reference: Sj89ne252 Drilled Length (m): Not Supplied Borehole Name: Holt Town M	A6SW (SW)	398	3	386260 398667
282	**BGS Boreholes** BGS Reference: Sj89ne1447 Drilled Length (m): 12.2 Borehole Name: Manchester Stadium Phase1 A35	A6SE (S)	398	3	386540 398590

BGS Boreholes Detail

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
283	**BGS Boreholes** BGS Reference: Sj89ne2044 Drilled Length (m): Not Supplied Borehole Name: Alan Turing Way Phase 2 Miles Platting Manchester Tp2a	A11NW (N)	399	3	386690 399670
283	**BGS Boreholes** BGS Reference: Sj89ne387 Drilled Length (m): Not Supplied Borehole Name: Clifton Street 5	A11NW (N)	405	3	386730 399670
283	**BGS Boreholes** BGS Reference: Sj89ne2033 Drilled Length (m): Not Supplied Borehole Name: Alan Turing Way Phase 2 Miles Platting Manchester 1a	A11NW (N)	421	3	386710 399690
283	**BGS Boreholes** BGS Reference: Sj89ne2043 Drilled Length (m): Not Supplied Borehole Name: Alan Turing Way Phase 2 Miles Platting Manchester Tp1a	A11NW (N)	429	3	386690 399700
283	**BGS Boreholes** BGS Reference: Sj89ne388 Drilled Length (m): Not Supplied Borehole Name: Clifton Street 6	A11NW (N)	461	3	386710 399730
284	**BGS Boreholes** BGS Reference: Sj89ne1502 Drilled Length (m): 4.5 Borehole Name: Manchester Stadium Phase1 Tpa38	A6SE (S)	400	3	386482 398590
285	**BGS Boreholes** BGS Reference: Sj89ne1937 Drilled Length (m): 10 Borehole Name: Coleshill Street Manchester 2	A10SW (NW)	400	3	386190 399321
285	**BGS Boreholes** BGS Reference: Sj89ne1938 Drilled Length (m): 6.2 Borehole Name: Coleshill Street Manchester 3	A10SW (NW)	414	3	386175 399323
285	**BGS Boreholes** BGS Reference: Sj89ne1936 Drilled Length (m): 6.1 Borehole Name: Coleshill Street Manchester 1	A10SW (NW)	419	3	386181 399340
285	**BGS Boreholes** BGS Reference: Sj89ne1941 Drilled Length (m): 6 Borehole Name: Coleshill Street Manchester 6	A10SW (W)	425	3	386137 399282
285	**BGS Boreholes** BGS Reference: Sj89ne1940 Drilled Length (m): 10 Borehole Name: Coleshill Street Manchester 5	A10SW (W)	426	3	386145 399300
285	**BGS Boreholes** BGS Reference: Sj89ne1939 Drilled Length (m): 6 Borehole Name: Coleshill Street Manchester 4	A10SW (NW)	429	3	386154 399320
286	**BGS Boreholes** BGS Reference: Sj89ne74 Drilled Length (m): 19.81 Borehole Name: Manchester Corp. Phillips Park Road	A6SE (S)	404	3	386431 398595
287	**BGS Boreholes** BGS Reference: Sj89ne513 Drilled Length (m): 13.4 Borehole Name: Intermediate Ring Road Mc3	A7NE (SE)	409	3	386960 398800
287	**BGS Boreholes** BGS Reference: Sj89ne511 Drilled Length (m): 16.1 Borehole Name: Intermediate Ring Road Mc1	A7NE (SE)	429	3	386990 398800
288	**BGS Boreholes** BGS Reference: Sj89ne1113 Drilled Length (m): Not Supplied Borehole Name: Briscoe Lane 5	A11SE (NE)	411	3	387100 399400

BGS Boreholes Detail

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
288	**BGS Boreholes** BGS Reference: Sj89ne1105 Drilled Length (m): Not Supplied Borehole Name: Briscoe Lane/Riverpark Road 6	A11SE (NE)	437	3	387140 399380
289	**BGS Boreholes** BGS Reference: Sj89ne1414 Drilled Length (m): 35.1 Borehole Name: Manchester Stadium Phase 1 A05	A7SW (S)	413	3	386780 398663
290	**BGS Boreholes** BGS Reference: Sj89ne215 Drilled Length (m): 65 Borehole Name: Eastlands R9	A7SW (S)	417	3	386740 398630
291	**BGS Boreholes** BGS Reference: Sj89ne1597 Drilled Length (m): 54 Borehole Name: Manchester Stadium Phase1 Sh1	A7SW (SE)	418	3	386920 398758
291	**BGS Boreholes** BGS Reference: Sj89ne216 Drilled Length (m): 65.25 Borehole Name: Eastlands R10	A7SW (SE)	420	3	386940 398770
292	**BGS Boreholes** BGS Reference: Sj89ne1659 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 23 R1/23	A7SW (SE)	419	3	386850 398720
293	**BGS Boreholes** BGS Reference: Sj89ne1500 Drilled Length (m): 4.5 Borehole Name: Manchester Stadium Phase1 Tpa36	A7SW (S)	420	3	386632 398581
294	**BGS Boreholes** BGS Reference: Sj89ne512 Drilled Length (m): 30.36 Borehole Name: Intermediate Ring Road Mc2	A7NE (SE)	422	3	386990 398810
295	**BGS Boreholes** BGS Reference: Sj89ne1503 Drilled Length (m): 4.5 Borehole Name: Manchester Stadium Phase1 Tpa39	A6SE (S)	433	3	386539 398555
295	**BGS Boreholes** BGS Reference: Sj89ne1504 Drilled Length (m): 2 Borehole Name: Manchester Stadium Phase1 Tpa40	A6SE (S)	441	3	386595 398552
295	**BGS Boreholes** BGS Reference: Sj89ne1435 Drilled Length (m): 9.2 Borehole Name: Manchester Stadium Phase1 A29	A6SE (S)	459	3	386567 398530
295	**BGS Boreholes** BGS Reference: Sj89ne1506 Drilled Length (m): 4.5 Borehole Name: Manchester Stadium Phase1 Tpa42	A6SE (S)	477	3	386578 398513
295	**BGS Boreholes** BGS Reference: Sj89ne1505 Drilled Length (m): 4.5 Borehole Name: Manchester Stadium Phase1 Tpa41	A6SE (S)	479	3	386529 398508
295	**BGS Boreholes** BGS Reference: Sj89ne1587 Drilled Length (m): 2.4 Borehole Name: Manchester Stadium Phase1 Tpst4	A6SE (S)	498	3	386601 398495
296	**BGS Boreholes** BGS Reference: Sj89ne1942 Drilled Length (m): 6 Borehole Name: Coleshill Street Manchester 7	A10SW (W)	438	3	386122 399281
296	**BGS Boreholes** BGS Reference: Sj89ne1944 Drilled Length (m): 10 Borehole Name: Coleshill Street Manchester 9	A10SW (W)	445	3	386099 399253

BGS Boreholes Detail

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
296	**BGS Boreholes** BGS Reference: Sj89ne1943 Drilled Length (m): 6 Borehole Name: Coleshill Street Manchester 8	A10SW (W)	455	3	386102 399281
296	**BGS Boreholes** BGS Reference: Sj89ne1945 Drilled Length (m): 6 Borehole Name: Coleshill Street Manchester 10	A10SW (W)	472	3	386071 399258
297	**BGS Boreholes** BGS Reference: Sj89ne1491 Drilled Length (m): 4.5 Borehole Name: Manchester Stadium Phase1 Tpa24	A7SW (SE)	440	3	386835 398676
298	**BGS Boreholes** BGS Reference: Sj89ne1436 Drilled Length (m): 1.5 Borehole Name: Manchester Stadium Phase1 A30	A7SW (S)	450	3	386718 398581
298	**BGS Boreholes** BGS Reference: Sj89ne1509 Drilled Length (m): 4.5 Borehole Name: Manchester Stadium Phase1 Tpa45	A7SW (S)	473	3	386704 398550
298	**BGS Boreholes** BGS Reference: Sj89ne1585 Drilled Length (m): 2 Borehole Name: Manchester Stadium Phase1 Tpst2	A7SW (S)	481	3	386698 398539
298	**BGS Boreholes** BGS Reference: Sj89ne1584 Drilled Length (m): 1.3 Borehole Name: Manchester Stadium Phase1 Tpst1	A7SW (S)	492	3	386732 398541
298	**BGS Boreholes** BGS Reference: Sj89ne1520 Drilled Length (m): 4.5 Borehole Name: Manchester Stadium Phase1 Tpa63	A7SW (S)	504	3	386689 398511
298	**BGS Boreholes** BGS Reference: Sj89ne1519 Drilled Length (m): 2.5 Borehole Name: Manchester Stadium Phase1 Tpa62	A7SW (S)	509	3	386743 398528
298	**BGS Boreholes** BGS Reference: Sj89ne1527 Drilled Length (m): 4.5 Borehole Name: Manchester Stadium Phase1 Tpa71	A7SW (S)	517	3	386704 398502
299	**BGS Boreholes** BGS Reference: Sj89ne1446 Drilled Length (m): 12.56 Borehole Name: Manchester Stadium Phase1 A34	A7SW (S)	450	3	386718 398581
299	**BGS Boreholes** BGS Reference: Sj89ne1451 Drilled Length (m): 19 Borehole Name: Manchester Stadium Phase1 Pha01	A7SW (S)	460	3	386679 398554
300	**BGS Boreholes** BGS Reference: Sj89ne140 Drilled Length (m): Not Supplied Borehole Name: Boring At Keynes Street	A6SW (SW)	453	3	386264 398601
301	**BGS Boreholes** BGS Reference: Sj89ne1510 Drilled Length (m): 3.1 Borehole Name: Manchester Stadium Phase1 Tpa46	A7SW (S)	455	3	386753 398594
301	**BGS Boreholes** BGS Reference: Sj89ne1511 Drilled Length (m): 4.5 Borehole Name: Manchester Stadium Phase1 Tpa47	A7SW (S)	480	3	386784 398583
301	**BGS Boreholes** BGS Reference: Sj89ne1556 Drilled Length (m): 3.5 Borehole Name: Manchester Stadium Phase1 Tpa107	A7SW (S)	487	3	386761 398562

BGS Boreholes Detail

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
302	**BGS Boreholes** BGS Reference: Sj89ne251 Drilled Length (m): Not Supplied Borehole Name: Holt Town L	A6SW (SW)	457	3	386232 398614
303	**BGS Boreholes** BGS Reference: Sj89ne1493 Drilled Length (m): 4.5 Borehole Name: Manchester Stadium Phase1 Tpa29	A7SW (SE)	458	3	386900 398700
303	**BGS Boreholes** BGS Reference: Sj89ne1492 Drilled Length (m): 4.5 Borehole Name: Manchester Stadium Phase1 Tpa25	A7SW (SE)	465	3	386876 398681
304	**BGS Boreholes** BGS Reference: Sj89ne73 Drilled Length (m): 17.37 Borehole Name: Manchester Corp. Devon Street	A6SE (SW)	460	3	386345 398560
305	**BGS Boreholes** BGS Reference: Sj89ne1600 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 1 - 10 R2/1	A7SW (S)	461	3	386670 398550
305	**BGS Boreholes** BGS Reference: Sj89ne1608 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 1 - 10 Th 9/1	A7SW (S)	496	3	386660 398510
305	**BGS Boreholes** BGS Reference: Sj89ne1617 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 1 - 10 3/1	A7SW (S)	527	3	386700 398490
305	**BGS Boreholes** BGS Reference: Sj89ne1609 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 1 - 10 Th 10/1	A7SW (S)	531	3	386680 398480
306	**BGS Boreholes** BGS Reference: Sj89ne53 Drilled Length (m): 5.49 Borehole Name: Manchester Corp. Clifton Street	A11NW (N)	464	3	386715 399732
307	**BGS Boreholes** BGS Reference: Sj89ne1454 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 38 Th 1/38	A7SE (SE)	465	3	387010 398770
307	**BGS Boreholes** BGS Reference: Sj89ne1466 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 38 1/38	A7SE (SE)	486	3	387040 398770
307	**BGS Boreholes** BGS Reference: Sj89ne1457 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 38 Th 4/38	A7SE (SE)	500	3	387060 398770
307	**BGS Boreholes** BGS Reference: Sj89ne1458 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 38 Th 5/38	A7SE (SE)	535	3	387070 398730
307	**BGS Boreholes** BGS Reference: Sj89ne1459 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 38 Th 6/38	A7SE (SE)	543	3	387090 398740
308	**BGS Boreholes** BGS Reference: Sj89ne1508 Drilled Length (m): 4.5 Borehole Name: Manchester Stadium Phase1 Tpa44	A7SW (S)	467	3	386641 398535
308	**BGS Boreholes** BGS Reference: Sj89ne1507 Drilled Length (m): 4.5 Borehole Name: Manchester Stadium Phase1 Tpa43	A7SW (S)	479	3	386616 398517

BGS Boreholes Detail

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
308	**BGS Boreholes** BGS Reference: Sj89ne1586 Drilled Length (m): 2.5 Borehole Name: Manchester Stadium Phase1 Tpst3	A7SW (S)	485	3	386657 398521
309	**BGS Boreholes** BGS Reference: Sj89ne1496 Drilled Length (m): 3 Borehole Name: Manchester Stadium Phase1 Tpa32	A7SW (SE)	471	3	386833 398631
309	**BGS Boreholes** BGS Reference: Sj89ne1494 Drilled Length (m): 3 Borehole Name: Manchester Stadium Phase1 Tpa31	A7SW (SE)	490	3	386860 398630
309	**BGS Boreholes** BGS Reference: Sj89ne1495 Drilled Length (m): 3 Borehole Name: Manchester Stadium Phase1 Tpa31	A7SW (SE)	490	3	386860 398630
309	**BGS Boreholes** BGS Reference: Sj89ne1513 Drilled Length (m): 4.5 Borehole Name: Manchester Stadium Phase1 Tpa49	A7SW (SE)	527	3	386875 398594
310	**BGS Boreholes** BGS Reference: Sj89ne1445 Drilled Length (m): 15.52 Borehole Name: Manchester Stadium Phase1 A33c	A7SW (S)	475	3	386810 398608
311	**BGS Boreholes** BGS Reference: Sj89ne1110 Drilled Length (m): Not Supplied Borehole Name: Briscoe Lane 2	A11NE (NE)	480	3	387090 399540
311	**BGS Boreholes** BGS Reference: Sj89ne1109 Drilled Length (m): Not Supplied Borehole Name: Briscoe Lane 1	A11NE (NE)	520	3	387140 399540
312	**BGS Boreholes** BGS Reference: Sj89ne1512 Drilled Length (m): 1.2 Borehole Name: Manchester Stadium Phase1 Tpa48	A7SW (S)	481	3	386813 398603
313	**BGS Boreholes** BGS Reference: Sj89ne1695 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plots 35c,35d & 36 Th5/35	A7SW (S)	483	3	386750 398560
313	**BGS Boreholes** BGS Reference: Sj89ne1611 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 1 - 10 Th 12/1	A7SW (S)	486	3	386690 398530
313	**BGS Boreholes** BGS Reference: Sj89ne1612 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 1 - 10 Th 13/1	A7SW (S)	492	3	386730 398540
313	**BGS Boreholes** BGS Reference: Sj89ne1696 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plots 35c,35d & 36 Th6/35	A7SW (S)	519	3	386770 398530
314	**BGS Boreholes** BGS Reference: Sj89ne1606 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 1 - 10 Th 6/1	A7SW (S)	487	3	386620 398510
314	**BGS Boreholes** BGS Reference: Sj89ne1603 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 1 - 10 Th 3/1	A6SE (S)	491	3	386580 398500
314	**BGS Boreholes** BGS Reference: Sj89ne1601 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 1 - 10 Th 1/1	A6SE (S)	498	3	386550 398490

BGS Boreholes Detail

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
314	**BGS Boreholes** BGS Reference: Sj89ne1616 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 1 - 10 2/1	A7SW (S)	518	3	386630 398480
314	**BGS Boreholes** BGS Reference: Sj89ne1618 Drilled Length (m): Not Supplied Borehole Name: Number Not Used	A7SW (S)	518	3	386630 398480
314	**BGS Boreholes** BGS Reference: Sj89ne1619 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 6 Th 1	A7SW (S)	518	3	386630 398480
314	**BGS Boreholes** BGS Reference: Sj89ne1604 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 1 - 10 Th 4/1	A6SE (S)	522	3	386590 398470
314	**BGS Boreholes** BGS Reference: Sj89ne1615 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 1 - 10 1/1	A6SE (S)	528	3	386550 398460
314	**BGS Boreholes** BGS Reference: Sj89ne1599 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 1 - 10 R1/1	A2NE (S)	539	3	386560 398450
314	**BGS Boreholes** BGS Reference: Sj89ne1602 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 1 - 10 Th 2/1	A2NE (S)	539	3	386570 398450
314	**BGS Boreholes** BGS Reference: Sj89ne1605 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 1 - 10 Th 5/1	A3NW (S)	566	3	386620 398430
314	**BGS Boreholes** BGS Reference: Sj89ne1621 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 6 Th 3	A3NW (S)	566	3	386620 398430
315	**BGS Boreholes** BGS Reference: Sj89ne2194 Drilled Length (m): Not Supplied Borehole Name: Manchester Metrolink-Additional Works Tpa8	A7SE (SE)	487	3	387010 398740
315	**BGS Boreholes** BGS Reference: Sj89ne1456 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 38 Th 3/38	A7SE (SE)	500	3	387040 398750
315	**BGS Boreholes** BGS Reference: Sj89ne1405 Drilled Length (m): Not Supplied Borehole Name: Manchester Stadium Phase1 A02	A7SE (SE)	505	3	386978 398693
315	**BGS Boreholes** BGS Reference: Sj89ne1455 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 38 Th 2/38	A7SE (SE)	509	3	387020 398720
315	**BGS Boreholes** BGS Reference: Sj89ne2195 Drilled Length (m): Not Supplied Borehole Name: Manchester Metrolink-Additional Works Tpa9	A7SE (SE)	515	3	387030 398720
315	**BGS Boreholes** BGS Reference: Sj89ne1467 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 38 2/38	A7SE (SE)	529	3	387050 398720
315	**BGS Boreholes** BGS Reference: Sj89ne2196 Drilled Length (m): Not Supplied Borehole Name: Manchester Metrolink-Additional Works Tpa10	A7SE (SE)	559	3	387050 398680

BGS Boreholes Detail

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
316	**BGS Boreholes** BGS Reference: Sj89ne1694 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plots 35c,35d & 36 Th4/35	A7SW (S)	498	3	386780 398560
316	**BGS Boreholes** BGS Reference: Sj89ne1693 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plots 35c,35d & 36 Th3/35	A7SW (S)	506	3	386810 398570
316	**BGS Boreholes** BGS Reference: Sj89ne1718 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plots 35c,35d & 36 Bh3/35	A7SW (S)	537	3	386790 398520
316	**BGS Boreholes** BGS Reference: Sj89ne1697 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plots 35c,35d & 36 Th7/35	A7SW (S)	539	3	386810 398530
317	**BGS Boreholes** BGS Reference: Sj89ne2063 Drilled Length (m): Not Supplied Borehole Name: Ashton Canal Corridor Holt Town Industrial Estate Vol 2 Bhv 2	A6SW (SW)	498	3	386180 398600
317	**BGS Boreholes** BGS Reference: Sj89ne2079 Drilled Length (m): Not Supplied Borehole Name: Ashton Canal Corridor Holt Town Industrial Estate Vol 2 Wsv 3	A6SW (SW)	528	3	386170 398570
317	**BGS Boreholes** BGS Reference: Sj89ne2062 Drilled Length (m): Not Supplied Borehole Name: Ashton Canal Corridor Holt Town Industrial Estate Vol 2 Bhv 1	A6SW (SW)	537	3	386170 398560
318	**BGS Boreholes** BGS Reference: Sj89ne1796 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 69 Th1/69	A7NE (SE)	501	3	387110 398830
318	**BGS Boreholes** BGS Reference: Sj89ne1800 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 69 Bh1/69	A7NE (SE)	515	3	387120 398820
318	**BGS Boreholes** BGS Reference: Sj89ne1795 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 69 Bhr1/69	A7NE (SE)	519	3	387110 398800
318	**BGS Boreholes** BGS Reference: Sj89ne1798 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 69 Th3/69	A7NE (SE)	527	3	387120 398800
318	**BGS Boreholes** BGS Reference: Sj89ne1797 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 69 Th2/69	A7NE (SE)	531	3	387140 398820
319	**BGS Boreholes** BGS Reference: Sj89ne1111 Drilled Length (m): Not Supplied Borehole Name: Briscoe Lane 3	A11SE (NE)	502	3	387210 399380
319	**BGS Boreholes** BGS Reference: Sj89ne1106 Drilled Length (m): Not Supplied Borehole Name: Briscoe Lane/Riverpark Road 7	A11SE (E)	540	3	387250 399380
320	**BGS Boreholes** BGS Reference: Sj89ne1588 Drilled Length (m): 2.2 Borehole Name: Manchester Stadium Phase1 Tpst5	A6SE (S)	510	3	386594 398482
320	**BGS Boreholes** BGS Reference: Sj89ne1522 Drilled Length (m): 4.5 Borehole Name: Manchester Stadium Phase1 Tpa65	A6SE (S)	515	3	386605 398479

BGS Boreholes Detail

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
320	**BGS Boreholes** BGS Reference: Sj89ne1524 Drilled Length (m): 3.5 Borehole Name: Manchester Stadium Phase1 Tpa67	A2NE (S)	549	3	386581 398441
320	**BGS Boreholes** BGS Reference: Sj89ne1581 Drilled Length (m): .5 Borehole Name: Manchester Stadium Phase1 Tpsl7	A3NW (S)	556	3	386612 398438
321	**BGS Boreholes** BGS Reference: Sj89ne1232 Drilled Length (m): Not Supplied Borehole Name: Norton Street Miles Platting 9	A10NE (NW)	511	3	386360 399700
321	**BGS Boreholes** BGS Reference: Sj89ne1234 Drilled Length (m): Not Supplied Borehole Name: Norton Street Miles Platting 11	A10NE (NW)	511	3	386320 399670
321	**BGS Boreholes** BGS Reference: Sj89ne1233 Drilled Length (m): Not Supplied Borehole Name: Norton Street Miles Platting 10	A10NE (NW)	534	3	386320 399700
321	**BGS Boreholes** BGS Reference: Sj89ne1231 Drilled Length (m): Not Supplied Borehole Name: Norton Street Miles Platting 8	A10NE (NW)	547	3	386340 399730
322	**BGS Boreholes** BGS Reference: Sj89ne1521 Drilled Length (m): 4.2 Borehole Name: Manchester Stadium Phase1 Tpa64	A7SW (S)	514	3	386644 398487
322	**BGS Boreholes** BGS Reference: Sj89ne1525 Drilled Length (m): 4.1 Borehole Name: Manchester Stadium Phase1 Tpa69	A3NW (S)	557	3	386644 398443
322	**BGS Boreholes** BGS Reference: Sj89ne1582 Drilled Length (m): .5 Borehole Name: Manchester Stadium Phase1 Tpsl8	A3NW (S)	559	3	386676 398449
322	**BGS Boreholes** BGS Reference: Sj89ne1583 Drilled Length (m): .7 Borehole Name: Manchester Stadium Phase1 Tpsl9	A3NW (S)	569	3	386697 398445
322	**BGS Boreholes** BGS Reference: Sj89ne1538 Drilled Length (m): 3 Borehole Name: Manchester Stadium Phase1 Tpa87	A3NW (S)	603	3	386692 398408
323	**BGS Boreholes** BGS Reference: Sj89ne142 Drilled Length (m): Not Supplied Borehole Name: Boring At Africa Mills	A7SE (SE)	515	3	387016 398708
324	**BGS Boreholes** BGS Reference: Sj89ne1416 Drilled Length (m): 37.1 Borehole Name: Manchester Stadium Phase 1 A06	A7SW (SE)	515	3	386854 398592
325	**BGS Boreholes** BGS Reference: Sj89ne1419 Drilled Length (m): 53.7 Borehole Name: Manchester Stadium Phase1 A10	A7SW (S)	515	3	386794 398548
326	**BGS Boreholes** BGS Reference: Sj89ne1692 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plots 35c,35d & 36 Th2/35	A7SW (SE)	515	3	386840 398580
326	**BGS Boreholes** BGS Reference: Sj89ne1691 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plots 35c,35d & 36 Th1/35	A7SW (SE)	547	3	386890 398580

BGS Boreholes Detail

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
326	**BGS Boreholes** BGS Reference: Sj89ne1716 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plots 35c,35d & 36 Bh1/35	A7SW (SE)	547	3	386890 398580
327	**BGS Boreholes** BGS Reference: Sj89ne1523 Drilled Length (m): 4.1 Borehole Name: Manchester Stadium Phase1 Tpa66	A6SE (S)	516	3	386559 398473
328	**BGS Boreholes** BGS Reference: Sj89ne1228 Drilled Length (m): Not Supplied Borehole Name: Norton Street Miles Platting 5	A10NE (N)	517	3	386440 399750
328	**BGS Boreholes** BGS Reference: Sj89ne1229 Drilled Length (m): Not Supplied Borehole Name: Norton Street Miles Platting 6	A10NE (N)	521	3	386410 399740
328	**BGS Boreholes** BGS Reference: Sj89ne1230 Drilled Length (m): Not Supplied Borehole Name: Norton Street Miles Platting 7	A10NE (N)	526	3	386380 399730
329	**BGS Boreholes** BGS Reference: Sj89ne241 Drilled Length (m): 65 Borehole Name: Eastlands R1/69	A7NE (SE)	519	3	387110 398800
330	**BGS Boreholes** BGS Reference: Sj89ne469 Drilled Length (m): 60 Borehole Name: Norton Street Miles Platting	A10NE (N)	524	3	386550 399790
331	**BGS Boreholes** BGS Reference: Sj89ne2298 Drilled Length (m): Not Supplied Borehole Name: Mercedes Benz Manchester Tp 4	A6SE (S)	528	3	386500 398460
331	**BGS Boreholes** BGS Reference: Sj89ne2299 Drilled Length (m): Not Supplied Borehole Name: Mercedes Benz Manchester Tp 5	A2NE (S)	558	3	386510 398430
331	**BGS Boreholes** BGS Reference: Sj89ne2297 Drilled Length (m): Not Supplied Borehole Name: Mercedes Benz Manchester Tp 1	A2NE (S)	559	3	386490 398430
332	**BGS Boreholes** BGS Reference: Sj89ne72 Drilled Length (m): 14.78 Borehole Name: Manchester Corp. Phillips Park Road	A6SW (SW)	529	3	386253 398521
333	**BGS Boreholes** BGS Reference: Sj89ne1516 Drilled Length (m): 3.5 Borehole Name: Manchester Stadium Phase1 Tpa59	A7SW (SE)	530	3	386849 398568
333	**BGS Boreholes** BGS Reference: Sj89ne1517 Drilled Length (m): 1.7 Borehole Name: Manchester Stadium Phase1 Tpa60	A7SW (S)	555	3	386845 398534
333	**BGS Boreholes** BGS Reference: Sj89ne1438 Drilled Length (m): 1.4 Borehole Name: Manchester Stadium Phase1 A31	A7SW (SE)	559	3	386867 398546
333	**BGS Boreholes** BGS Reference: Sj89ne1439 Drilled Length (m): 1.4 Borehole Name: Manchester Stadium Phase1 A31	A7SW (SE)	559	3	386867 398546
333	**BGS Boreholes** BGS Reference: Sj89ne1440 Drilled Length (m): 1.5 Borehole Name: Manchester Stadium Phase1 A31a	A7SW (SE)	568	3	386875 398541

BGS Boreholes Detail

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
333	**BGS Boreholes** BGS Reference: Sj89ne1531 Drilled Length (m): 4.5 Borehole Name: Manchester Stadium Phase1 Tpa75	A7SW (SE)	592	3	386867 398504
334	**BGS Boreholes** BGS Reference: Sj89ne1613 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 1 - 10 Th 14/1	A7SW (S)	534	3	386720 398490
334	**BGS Boreholes** BGS Reference: Sj89ne1701 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plots 35c,35d & 36 Th11/35	A7SW (S)	546	3	386750 398490
334	**BGS Boreholes** BGS Reference: Sj89ne1702 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plots 35c,35d & 36 Th12/35	A7SW (S)	568	3	386760 398470
334	**BGS Boreholes** BGS Reference: Sj89ne1719 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plots 35c,35d & 36 Bh4/35	A7SW (S)	582	3	386790 398470
334	**BGS Boreholes** BGS Reference: Sj89ne1703 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plots 35c,35d & 36 Th13/35	A7SW (S)	590	3	386790 398460
335	**BGS Boreholes** BGS Reference: Sj89ne1425 Drilled Length (m): 41.2 Borehole Name: Manchester Stadium Phase1 A14	A7SW (S)	535	3	386748 398501
336	**BGS Boreholes** BGS Reference: Sj89ne1518 Drilled Length (m): 4.5 Borehole Name: Manchester Stadium Phase1 Tpa61	A7SW (S)	535	3	386793 398525
336	**BGS Boreholes** BGS Reference: Sj89ne1529 Drilled Length (m): 4.5 Borehole Name: Manchester Stadium Phase1 Tpa73	A7SW (S)	572	3	386788 398480
336	**BGS Boreholes** BGS Reference: Sj89ne1530 Drilled Length (m): 3.2 Borehole Name: Manchester Stadium Phase1 Tpa74	A7SW (S)	576	3	386814 398489
336	**BGS Boreholes** BGS Reference: Sj89ne1555 Drilled Length (m): 4.5 Borehole Name: Manchester Stadium Phase1 Tpa106	A7SW (S)	594	3	386835 398481
336	**BGS Boreholes** BGS Reference: Sj89ne1536 Drilled Length (m): 2.4 Borehole Name: Manchester Stadium Phase1 Tpa85	A3NW (S)	608	3	386813 398452
336	**BGS Boreholes** BGS Reference: Sj89ne1535 Drilled Length (m): 2.2 Borehole Name: Manchester Stadium Phase1 Tpa84	A3NW (S)	622	3	386842 398452
337	**BGS Boreholes** BGS Reference: Sj89ne1225 Drilled Length (m): Not Supplied Borehole Name: Norton Street Miles Platting 2	A10NE (N)	538	3	386460 399780
337	**BGS Boreholes** BGS Reference: Sj89ne1226 Drilled Length (m): Not Supplied Borehole Name: Norton Street Miles Platting 3	A10NE (N)	553	3	386420 399780
337	**BGS Boreholes** BGS Reference: Sj89ne1237 Drilled Length (m): Not Supplied Borehole Name: Norton Street Miles Platting Tp2	A10NE (N)	554	3	386440 399790

BGS Boreholes Detail

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
337	**BGS Boreholes** BGS Reference: Sj89ne1224 Drilled Length (m): Not Supplied Borehole Name: Norton Street Miles Platting 1	A14SE (N)	582	3	386440 399820
337	**BGS Boreholes** BGS Reference: Sj89ne1236 Drilled Length (m): Not Supplied Borehole Name: Norton Street Miles Platting Tp1	A14SE (N)	590	3	386420 399820
338	**BGS Boreholes** BGS Reference: Sj89ne1717 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plots 35c,35d & 36 Bh2/35	A7SW (S)	539	3	386840 398550
338	**BGS Boreholes** BGS Reference: Sj89ne1698 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plots 35c,35d & 36 Th8/35	A7SW (SE)	551	3	386860 398550
338	**BGS Boreholes** BGS Reference: Sj89ne1700 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plots 35c,35d & 36 Th10/35	A7SW (S)	570	3	386850 398520
338	**BGS Boreholes** BGS Reference: Sj89ne1699 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plots 35c,35d & 36 Th9/35	A7SW (SE)	587	3	386880 398520
339	**BGS Boreholes** BGS Reference: Sj89ne1607 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 1 - 10 Th 8/1	A7SW (S)	540	3	386640 398460
339	**BGS Boreholes** BGS Reference: Sj89ne1620 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 6 Th 2	A7SW (S)	540	3	386640 398460
340	**BGS Boreholes** BGS Reference: Sj89ne1468 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 38 3/38	A7SE (SE)	545	3	387110 398760
340	**BGS Boreholes** BGS Reference: Sj89ne1799 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 69 Th4/69	A7SE (SE)	557	3	387150 398790
340	**BGS Boreholes** BGS Reference: Sj89ne1460 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 38 Th 7/38	A7SE (SE)	567	3	387130 398750
340	**BGS Boreholes** BGS Reference: Sj89ne1461 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 38 Th 8/38	A7SE (SE)	585	3	387120 398710
340	**BGS Boreholes** BGS Reference: Sj89ne1469 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 38 4/38	A7SE (SE)	601	3	387150 398720
340	**BGS Boreholes** BGS Reference: Sj89ne1462 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 38 Th 9/38	A7SE (SE)	609	3	387160 398720
341	**BGS Boreholes** BGS Reference: Sj89ne1426 Drilled Length (m): 68.35 Borehole Name: Manchester Stadium Phase1 A15	A3NW (S)	558	3	386692 398455
342	**BGS Boreholes** BGS Reference: Sj89ne1437 Drilled Length (m): 18.18 Borehole Name: Manchester Stadium Phase1 A30a	A7SW (S)	559	3	386809 398506

BGS Boreholes Detail

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
343	**BGS Boreholes** BGS Reference: Sj89ne1452 Drilled Length (m): 20 Borehole Name: Manchester Stadium Phase1 Pha02	A7SW (S)	559	3	386700 398457
344	**BGS Boreholes** BGS Reference: Sj89ne1441 Drilled Length (m): 17.3 Borehole Name: Manchester Stadium Phase1 A31b	A7SW (SE)	560	3	386871 398547
344	**BGS Boreholes** BGS Reference: Sj89ne1471 Drilled Length (m): 24 Borehole Name: Manchester Stadium Phase1 Pha03	A7SW (SE)	562	3	386886 398557
345	**BGS Boreholes** BGS Reference: Sj89ne2078 Drilled Length (m): Not Supplied Borehole Name: Ashton Canal Corridor Holt Town Industrial Estate Vol 2 Wsv 1	A6SW (SW)	560	3	386130 398560
345	**BGS Boreholes** BGS Reference: Sj89ne2066 Drilled Length (m): Not Supplied Borehole Name: Ashton Canal Corridor Holt Town Industrial Estate Vol 2 Bhv 5	A6SW (SW)	565	3	386110 398570
345	**BGS Boreholes** BGS Reference: Sj89ne2064 Drilled Length (m): Not Supplied Borehole Name: Ashton Canal Corridor Holt Town Industrial Estate Vol 2 Bhv 3	A6SW (SW)	578	3	386140 398530
345	**BGS Boreholes** BGS Reference: Sj89ne2073 Drilled Length (m): Not Supplied Borehole Name: Ashton Canal Corridor Holt Town Industrial Estate Vol 2 Tpv 1	A6SW (SW)	587	3	386100 398550
345	**BGS Boreholes** BGS Reference: Sj89ne2068 Drilled Length (m): Not Supplied Borehole Name: Ashton Canal Corridor Holt Town Industrial Estate Vol 2 Bhv 7	A6SW (SW)	595	3	386100 398540
346	**BGS Boreholes** BGS Reference: Sj89ne217 Drilled Length (m): 65 Borehole Name: Eastlands R11	A7SW (SE)	561	3	386920 398590
347	**BGS Boreholes** BGS Reference: Sj89ne1235 Drilled Length (m): Not Supplied Borehole Name: Norton Street Miles Platting 12	A10NE (NW)	561	3	386290 399710
348	**BGS Boreholes** BGS Reference: Sj89ne1526 Drilled Length (m): 2.2 Borehole Name: Manchester Stadium Phase1 Tpa70	A7SW (S)	564	3	386726 398461
348	**BGS Boreholes** BGS Reference: Sj89ne1528 Drilled Length (m): 3.3 Borehole Name: Manchester Stadium Phase1 Tpa72	A7SW (S)	566	3	386762 398474
349	**BGS Boreholes** BGS Reference: Sj89ne1776 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 59 Bh3	A7NE (SE)	567	3	387170 398800
349	**BGS Boreholes** BGS Reference: Sj89ne1759 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 59 Th1	A7NE (SE)	575	3	387180 398800
349	**BGS Boreholes** BGS Reference: Sj89ne1779 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 59 Bhr1	A7SE (SE)	587	3	387180 398780
349	**BGS Boreholes** BGS Reference: Sj89ne1760 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 59 Th2	A7SE (SE)	593	3	387180 398770

BGS Boreholes Detail

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
349	**BGS Boreholes** BGS Reference: Sj89ne1777 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 59 Bh4	A7SE (SE)	593	3	387180 398770
349	**BGS Boreholes** BGS Reference: Sj89ne1762 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 59 Th4	A7SE (SE)	597	3	387200 398790
349	**BGS Boreholes** BGS Reference: Sj89ne1763 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 59 Th5	A7NE (SE)	599	3	387210 398800
349	**BGS Boreholes** BGS Reference: Sj89ne1775 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 59 Bh2	A7SE (SE)	613	3	387220 398790
349	**BGS Boreholes** BGS Reference: Sj89ne1761 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 59 Th3	A7SE (SE)	615	3	387200 398760
349	**BGS Boreholes** BGS Reference: Sj89ne1764 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 59 Th6	A7SE (SE)	617	3	387210 398770
349	**BGS Boreholes** BGS Reference: Sj89ne1771 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 59 Th13	A7SE (SE)	622	3	387230 398790
349	**BGS Boreholes** BGS Reference: Sj89ne1765 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 59 Th7	A7SE (SE)	629	3	387210 398750
349	**BGS Boreholes** BGS Reference: Sj89ne1464 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 38 Th 11/38	A7SE (SE)	632	3	387190 398720
349	**BGS Boreholes** BGS Reference: Sj89ne1768 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 59 Th10	A7SE (SE)	639	3	387230 398760
349	**BGS Boreholes** BGS Reference: Sj89ne1769 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 59 Th11	A7SE (SE)	641	3	387240 398770
349	**BGS Boreholes** BGS Reference: Sj89ne1766 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 59 Th8	A7SE (SE)	651	3	387230 398740
349	**BGS Boreholes** BGS Reference: Sj89ne1767 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 59 Th9	A7SE (SE)	659	3	387240 398740
349	**BGS Boreholes** BGS Reference: Sj89ne1774 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 59 Bh1	A7SE (SE)	665	3	387240 398730
350	**BGS Boreholes** BGS Reference: Sj89ne1610 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 1 - 10 Th 11/1	A3NW (S)	572	3	386690 398440
351	**BGS Boreholes** BGS Reference: Sj89ne1579 Drilled Length (m): .5 Borehole Name: Manchester Stadium Phase1 Tpsl5	A2NE (S)	576	3	386607 398417

BGS Boreholes Detail

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
351	**BGS Boreholes** BGS Reference: Sj89ne1580 Drilled Length (m): .7 Borehole Name: Manchester Stadium Phase1 Tpsl6	A2NE (S)	588	3	386593 398403
351	**BGS Boreholes** BGS Reference: Sj89ne1539 Drilled Length (m): 2.8 Borehole Name: Manchester Stadium Phase1 Tpa88	A3NW (S)	597	3	386641 398402
351	**BGS Boreholes** BGS Reference: Sj89ne1578 Drilled Length (m): .5 Borehole Name: Manchester Stadium Phase1 Tpsl4	A3NW (S)	605	3	386630 398392
351	**BGS Boreholes** BGS Reference: Sj89ne1540 Drilled Length (m): 4.5 Borehole Name: Manchester Stadium Phase1 Tpa89	A2NE (S)	606	3	386605 398387
352	**BGS Boreholes** BGS Reference: Sj89ne1227 Drilled Length (m): Not Supplied Borehole Name: Norton Street Miles Platting 4	A10NE (N)	579	3	386380 399790
353	**BGS Boreholes** BGS Reference: Sj89ne1515 Drilled Length (m): 2.6 Borehole Name: Manchester Stadium Phase1 Tpa58	A7SW (SE)	581	3	386933 398574
354	**BGS Boreholes** BGS Reference: Sj89ne1614 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 1 - 10 Th 15/1	A3NW (S)	581	3	386720 398440
354	**BGS Boreholes** BGS Reference: Sj89ne1704 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plots 35c,35d & 36 Th14/35	A3NW (S)	605	3	386760 398430
355	**BGS Boreholes** BGS Reference: Sj89ne1434 Drilled Length (m): 12.4 Borehole Name: Manchester Stadium Phase1 A28	A2NE (S)	582	3	386592 398409
355	**BGS Boreholes** BGS Reference: Sj89ne1433 Drilled Length (m): 15.4 Borehole Name: Manchester Stadium Phase1 A27	A3NW (S)	622	3	386623 398373
356	**BGS Boreholes** BGS Reference: Sj89ne52 Drilled Length (m): 7.01 Borehole Name: Manchester Corp. Grimshaw Lane	A15SW (N)	585	3	386838 399825
357	**BGS Boreholes** BGS Reference: Sj89ne1778 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 59 Bh5	A7NE (SE)	590	3	387230 398850
357	**BGS Boreholes** BGS Reference: Sj89ne1780 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 59 Bhr2	A7NE (SE)	590	3	387230 398850
358	**BGS Boreholes** BGS Reference: Sj89ne614 Drilled Length (m): 29.68 Borehole Name: Lower Medlock Ucso 526	A6SW (SW)	596	3	386170 398490
358	**BGS Boreholes** BGS Reference: Sj89ne71 Drilled Length (m): 12.04 Borehole Name: Manchester Corp. Phillips Park Road	A6SW (SW)	609	3	386151 398486
358	**BGS Boreholes** BGS Reference: Sj89ne978 Drilled Length (m): 10.28 Borehole Name: Carlisle Street Cpo Area 1	A6SW (SW)	620	3	386140 398480

BGS Boreholes Detail

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
359	**BGS Boreholes** BGS Reference: Sj89ne1706 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plots 35c,35d & 36 Th16/35	A7SW (S)	596	3	386820 398470
359	**BGS Boreholes** BGS Reference: Sj89ne1710 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plots 35c,35d & 36 Th20/35	A7SW (SE)	606	3	386870 398490
359	**BGS Boreholes** BGS Reference: Sj89ne1720 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plots 35c,35d & 36 Bh5/35	A3NW (S)	623	3	386840 398450
359	**BGS Boreholes** BGS Reference: Sj89ne1705 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plots 35c,35d & 36 Th15/35	A3NW (S)	631	3	386800 398420
359	**BGS Boreholes** BGS Reference: Sj89ne1707 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plots 35c,35d & 36 Th17/35	A3NW (S)	631	3	386820 398430
359	**BGS Boreholes** BGS Reference: Sj89ne1711 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plots 35c,35d & 36 Th21/35	A7SW (S)	636	3	386880 398460
359	**BGS Boreholes** BGS Reference: Sj89ne1708 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plots 35c,35d & 36 Th18/35	A3NW (S)	637	3	386850 398440
359	**BGS Boreholes** BGS Reference: Sj89ne1709 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plots 35c,35d & 36 Th19/35	A3NW (S)	668	3	386860 398410
360	**BGS Boreholes** BGS Reference: Sj89ne2300 Drilled Length (m): Not Supplied Borehole Name: Holland Street Ancoats Manchester Vol 1 1	A9SE (W)	602	3	385890 399150
360	**BGS Boreholes** BGS Reference: Sj89ne2303 Drilled Length (m): Not Supplied Borehole Name: Holland Street Ancoats Manchester Vol 1 4	A5NE (W)	606	3	385880 399120
360	**BGS Boreholes** BGS Reference: Sj89ne2304 Drilled Length (m): Not Supplied Borehole Name: Holland Street Ancoats Manchester Vol 1 5	A9SE (W)	609	3	385880 399140
360	**BGS Boreholes** BGS Reference: Sj89ne2302 Drilled Length (m): Not Supplied Borehole Name: Holland Street Ancoats Manchester Vol 1 3	A9SE (W)	631	3	385860 399150
361	**BGS Boreholes** BGS Reference: Sj89ne1537 Drilled Length (m): 1.8 Borehole Name: Manchester Stadium Phase1 Tpa86	A3NW (S)	606	3	386774 398435
362	**BGS Boreholes** BGS Reference: Sj89ne1713 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plots 35c,35d & 36 Th23/35	A7SW (SE)	607	3	386900 398510
362	**BGS Boreholes** BGS Reference: Sj89ne1721 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plots 35c,35d & 36 Bh6/35	A7SW (SE)	625	3	386890 398480
362	**BGS Boreholes** BGS Reference: Sj89ne1714 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plots 35c,35d & 36 Th24/35	A7SW (SE)	645	3	386910 398470

BGS Boreholes Detail

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
362	**BGS Boreholes** BGS Reference: Sj89ne1685 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 35b Th10	A7SE (SE)	655	3	386950 398490
362	**BGS Boreholes** BGS Reference: Sj89ne1673 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 35b Bh1	A7SW (SE)	656	3	386940 398480
362	**BGS Boreholes** BGS Reference: Sj89ne1684 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 35b Th9	A7SE (SE)	683	3	386970 398470
362	**BGS Boreholes** BGS Reference: Sj89ne1678 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 35b Th3	A3NE (SE)	699	3	386960 398440
363	**BGS Boreholes** BGS Reference: Sj89ne1593 Drilled Length (m): 3.2 Borehole Name: Manchester Stadium Phase1 Tpgg	A7SW (SE)	608	3	386927 398532
363	**BGS Boreholes** BGS Reference: Sj89ne1532 Drilled Length (m): 3.2 Borehole Name: Manchester Stadium Phase1 Tpa76	A7SW (SE)	614	3	386909 398509
363	**BGS Boreholes** BGS Reference: Sj89ne1514 Drilled Length (m): 3.7 Borehole Name: Manchester Stadium Phase1 Tpa56	A7SW (SE)	622	3	386941 398526
363	**BGS Boreholes** BGS Reference: Sj89ne1533 Drilled Length (m): 2.5 Borehole Name: Manchester Stadium Phase1 Tpa82	A7SW (SE)	634	3	386902 398478
364	**BGS Boreholes** BGS Reference: Sj89ne1773 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 59 Th15	A7NE (SE)	609	3	387240 398830
364	**BGS Boreholes** BGS Reference: Sj89ne1772 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 59 Th14	A7NE (SE)	625	3	387240 398800
364	**BGS Boreholes** BGS Reference: Sj89ne1770 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 59 Th12	A7SE (SE)	647	3	387260 398790
365	**BGS Boreholes** BGS Reference: Sj89ne1577 Drilled Length (m): .7 Borehole Name: Manchester Stadium Phase1 Tpsl3	A3NW (S)	610	3	386667 398394
365	**BGS Boreholes** BGS Reference: Sj89ne1541 Drilled Length (m): 3.3 Borehole Name: Manchester Stadium Phase1 Tpa90	A3NW (S)	637	3	386690 398372
366	**BGS Boreholes** BGS Reference: Sj89ne218 Drilled Length (m): 65 Borehole Name: Eastlands R12	A3NW (S)	611	3	386750 398420
367	**BGS Boreholes** BGS Reference: Sj89ne1429 Drilled Length (m): 15.3 Borehole Name: Manchester Stadium Phase1 A23	A7SW (S)	614	3	386858 398472
367	**BGS Boreholes** BGS Reference: Sj89ne1472 Drilled Length (m): 18 Borehole Name: Manchester Stadium Phase1 Pha04	A7SW (S)	630	3	386870 398461

BGS Boreholes Detail

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
368	**BGS Boreholes** BGS Reference: Sj89ne2512 Drilled Length (m): Not Supplied Borehole Name: Weir Pumps Manchester Tp12	A11NE (NE)	617	3	387058 399753
369	**BGS Boreholes** BGS Reference: Sj89ne1430 Drilled Length (m): 15.6 Borehole Name: Manchester Stadium Phase1 A24	A3NW (S)	618	3	386798 398433
370	**BGS Boreholes** BGS Reference: Sj89ne1417 Drilled Length (m): 30.4 Borehole Name: Manchester Stadium Phase1 A07	A7SW (SE)	622	3	386917 398505
371	**BGS Boreholes** BGS Reference: Sj89ne2069 Drilled Length (m): Not Supplied Borehole Name: Ashton Canal Corridor Holt Town Industrial Estate Vol 2 Bhv 8	A6SW (SW)	622	3	386070 398530
371	**BGS Boreholes** BGS Reference: Sj89ne2076 Drilled Length (m): Not Supplied Borehole Name: Ashton Canal Corridor Holt Town Industrial Estate Vol 2 Tpv 4	A6SW (SW)	622	3	386070 398530
371	**BGS Boreholes** BGS Reference: Sj89ne2075 Drilled Length (m): Not Supplied Borehole Name: Ashton Canal Corridor Holt Town Industrial Estate Vol 2 Tpv 3	A6SW (SW)	623	3	386080 398520
371	**BGS Boreholes** BGS Reference: Sj89ne2077 Drilled Length (m): Not Supplied Borehole Name: Ashton Canal Corridor Holt Town Industrial Estate Vol 2 Tpv 5	A6SW (SW)	628	3	386060 398530
371	**BGS Boreholes** BGS Reference: Sj89ne2065 Drilled Length (m): Not Supplied Borehole Name: Ashton Canal Corridor Holt Town Industrial Estate Vol 2 Bhv 4	A6SW (SW)	635	3	386050 398530
371	**BGS Boreholes** BGS Reference: Sj89ne1983 Drilled Length (m): Not Supplied Borehole Name: Manchester Metro Phase 3 Extension To Commonwealth Wealth Games Stadium Tp E6	A6SW (SW)	642	3	386040 398530
371	**BGS Boreholes** BGS Reference: Sj89ne2022 Drilled Length (m): Not Supplied Borehole Name: Manchester Metro Phase 3 Extension To Commonwealth Wealth Games Stadium Bhe3	A6SW (SW)	642	3	386040 398530
371	**BGS Boreholes** BGS Reference: Sj89ne2072 Drilled Length (m): Not Supplied Borehole Name: Ashton Canal Corridor Holt Town Industrial Estate Vol 2 Bhv 10	A6SW (SW)	650	3	386050 398510
371	**BGS Boreholes** BGS Reference: Sj89ne1982 Drilled Length (m): Not Supplied Borehole Name: Manchester Metro Phase 3 Extension To Commonwealth Wealth Games Stadium Tp E5	A6SW (SW)	656	3	386030 398520
371	**BGS Boreholes** BGS Reference: Sj89ne1981 Drilled Length (m): Not Supplied Borehole Name: Manchester Metro Phase 3 Extension To Commonwealth Wealth Games Stadium Tp E4	A6SW (SW)	662	3	386020 398520
371	**BGS Boreholes** BGS Reference: Sj89ne1980 Drilled Length (m): Not Supplied Borehole Name: Manchester Metro Phase 3 Extension To Commonwealth Wealth Games Stadium Tp E3	A6SW (SW)	677	3	386010 398510
371	**BGS Boreholes** BGS Reference: Sj89ne2024 Drilled Length (m): Not Supplied Borehole Name: Manchester Metro Phase 3 Extension To Commonwealth Wealth Games Stadium Bhe5	A6SW (SW)	677	3	386020 398500

BGS Boreholes Detail

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
371	**BGS Boreholes** BGS Reference: Sj89ne2021 Drilled Length (m): Not Supplied Borehole Name: Manchester Metro Phase 3 Extension To Commonwealth Wealth Games Stadium Bhe2	A6SW (SW)	684	3	386010 398500
371	**BGS Boreholes** BGS Reference: Sj89ne1979 Drilled Length (m): Not Supplied Borehole Name: Manchester Metro Phase 3 Extension To Commonwealth Wealth Games Stadium Tp E2	A6SW (SW)	691	3	386000 398500
371	**BGS Boreholes** BGS Reference: Sj89ne2071 Drilled Length (m): Not Supplied Borehole Name: Ashton Canal Corridor Holt Town Industrial Estate Vol 2 Bhv 9b	A6SW (SW)	691	3	386000 398500
371	**BGS Boreholes** BGS Reference: Sj89ne1978 Drilled Length (m): Not Supplied Borehole Name: Manchester Metro Phase 3 Extension To Commonwealth Wealth Games Stadium Tp E1	A6SW (SW)	698	3	385990 398500
371	**BGS Boreholes** BGS Reference: Sj89ne2020 Drilled Length (m): Not Supplied Borehole Name: Manchester Metro Phase 3 Extension To Commonwealth Wealth Games Stadium Bhe1	A6SW (SW)	698	3	386000 398490
372	**BGS Boreholes** BGS Reference: Sj89ne2067 Drilled Length (m): Not Supplied Borehole Name: Ashton Canal Corridor Holt Town Industrial Estate Vol 2 Bhv 6	A6SW (SW)	624	3	386090 398510
372	**BGS Boreholes** BGS Reference: Sj89ne2074 Drilled Length (m): Not Supplied Borehole Name: Ashton Canal Corridor Holt Town Industrial Estate Vol 2 Tpv 2	A6SW (SW)	624	3	386090 398510
373	**BGS Boreholes** BGS Reference: Sj89ne1423 Drilled Length (m): 41 Borehole Name: Manchester Stadium Phase1 A13	A3NW (S)	627	3	386809 398429
373	**BGS Boreholes** BGS Reference: Sj89ne1424 Drilled Length (m): 41 Borehole Name: Manchester Stadium Phase1 A13	A3NW (S)	627	3	386809 398429
374	**BGS Boreholes** BGS Reference: Sj89ne1432 Drilled Length (m): 15.3 Borehole Name: Manchester Stadium Phase1 A26	A3NW (S)	627	3	386692 398383
375	**BGS Boreholes** BGS Reference: Sj89ne1463 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 38 Th 10/38	A7SE (SE)	628	3	387160 398690
375	**BGS Boreholes** BGS Reference: Sj89ne1453 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 38 R1/38	A7SE (SE)	652	3	387200 398700
375	**BGS Boreholes** BGS Reference: Sj89ne1470 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 38 5/38	A7SE (SE)	657	3	387180 398670
375	**BGS Boreholes** BGS Reference: Sj89ne1465 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 38 Th 12/38	A7SE (SE)	659	3	387200 398690
376	**BGS Boreholes** BGS Reference: Sj89ne195 Drilled Length (m): 36.58 Borehole Name: Nelson Street Primary School 3 Manchester	A10NW (NW)	629	3	386060 399537
376	**BGS Boreholes** BGS Reference: Sj89ne194 Drilled Length (m): 30.48 Borehole Name: Nelson Street Primary School 1 Manchester	A10NW (NW)	659	3	386029 399544

BGS Boreholes Detail

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
377	**BGS Boreholes** BGS Reference: Sj89ne1098 Drilled Length (m): Not Supplied Borehole Name: Holland Mill Tpq	A10SW (W)	631	3	385940 399350
377	**BGS Boreholes** BGS Reference: Sj89ne1097 Drilled Length (m): Not Supplied Borehole Name: Holland Mill Tpp	A9SE (W)	635	3	385930 399340
377	**BGS Boreholes** BGS Reference: Sj89ne1085 Drilled Length (m): Not Supplied Borehole Name: Holland Mill 3	A10SW (W)	636	3	385940 399360
377	**BGS Boreholes** BGS Reference: Sj89ne1090 Drilled Length (m): Not Supplied Borehole Name: Holland Mill Tpf	A10SW (W)	645	3	385940 399380
377	**BGS Boreholes** BGS Reference: Sj89ne1093 Drilled Length (m): Not Supplied Borehole Name: Holland Mill Tpj	A9SE (W)	649	3	385920 399350
377	**BGS Boreholes** BGS Reference: Sj89ne1089 Drilled Length (m): Not Supplied Borehole Name: Holland Mill Tpe	A9SE (W)	658	3	385920 399370
377	**BGS Boreholes** BGS Reference: Sj89ne1092 Drilled Length (m): Not Supplied Borehole Name: Holland Mill Tph	A9SE (W)	661	3	385900 399340
377	**BGS Boreholes** BGS Reference: Sj89ne1083 Drilled Length (m): Not Supplied Borehole Name: Holland Mill 1	A9SE (W)	666	3	385900 399350
378	**BGS Boreholes** BGS Reference: Sj89ne1431 Drilled Length (m): 15.3 Borehole Name: Manchester Stadium Phase1 A25	A3NW (S)	632	3	386744 398395
379	**BGS Boreholes** BGS Reference: Sj89ne1542 Drilled Length (m): 4.5 Borehole Name: Manchester Stadium Phase1 Tpa91	A3NW (S)	632	3	386734 398391
379	**BGS Boreholes** BGS Reference: Sj89ne1576 Drilled Length (m): .5 Borehole Name: Manchester Stadium Phase1 Tpsl2	A3NW (S)	637	3	386709 398378
379	**BGS Boreholes** BGS Reference: Sj89ne1575 Drilled Length (m): .5 Borehole Name: Manchester Stadium Phase1 Tpsl1	A3NW (S)	648	3	386744 398378
379	**BGS Boreholes** BGS Reference: Sj89ne1543 Drilled Length (m): 4.5 Borehole Name: Manchester Stadium Phase1 Tpa92	A3NW (S)	650	3	386732 398371
380	**BGS Boreholes** BGS Reference: Sj89ne1107 Drilled Length (m): Not Supplied Borehole Name: Briscoe Lane/Riverpark Road 8	A12SW (E)	635	3	387350 399380
381	**BGS Boreholes** BGS Reference: Sj89ne2513 Drilled Length (m): Not Supplied Borehole Name: Weir Pumps Manchester Tp13	A11NE (NE)	638	3	387107 399744
381	**BGS Boreholes** BGS Reference: Sj89ne2501 Drilled Length (m): Not Supplied Borehole Name: Weir Pumps Manchester 6	A11NE (NE)	656	3	387115 399760

BGS Boreholes Detail

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
381	**BGS Boreholes** BGS Reference: Sj89ne2511 Drilled Length (m): Not Supplied Borehole Name: Weir Pumps Manchester Tp11	A11NE (NE)	669	3	387091 399794
381	**BGS Boreholes** BGS Reference: Sj89ne2419 Drilled Length (m): Not Supplied Borehole Name: Weir Pumps Additional Works Nov 2004 Tt I	A11NE (NE)	673	3	387137 399765
381	**BGS Boreholes** BGS Reference: Sj89ne2514 Drilled Length (m): Not Supplied Borehole Name: Weir Pumps Manchester Tp14	A11NE (NE)	683	3	387156 399762
381	**BGS Boreholes** BGS Reference: Sj89ne2533 Drilled Length (m): Not Supplied Borehole Name: Weir Pumps Manchester Tp57	A11NE (NE)	691	3	387119 399801
382	**BGS Boreholes** BGS Reference: Sj89ne2425 Drilled Length (m): Not Supplied Borehole Name: Weir Pumps Additional Works Nov 2004 Tp O	A11NE (NE)	639	3	387146 399712
382	**BGS Boreholes** BGS Reference: Sj89ne2515 Drilled Length (m): Not Supplied Borehole Name: Weir Pumps Manchester Tp15	A11NE (NE)	653	3	387174 399705
382	**BGS Boreholes** BGS Reference: Sj89ne2502 Drilled Length (m): Not Supplied Borehole Name: Weir Pumps Manchester 7	A11NE (NE)	667	3	387165 399733
383	**BGS Boreholes** BGS Reference: Sj89ne2197 Drilled Length (m): Not Supplied Borehole Name: Manchester Metrolink-Additional Works Tpa11	A7SE (SE)	640	3	387080 398600
383	**BGS Boreholes** BGS Reference: Sj89ne2001 Drilled Length (m): Not Supplied Borehole Name: Manchester Metro Phase 3 Extension To Commonwealth Wealth Games Stadium Tp J23	A7SE (SE)	640	3	387080 398600
383	**BGS Boreholes** BGS Reference: Sj89ne2028 Drilled Length (m): Not Supplied Borehole Name: Manchester Metro Phase 3 Extension To Commonwealth Wealth Games Stadium Bhj8	A7SE (SE)	656	3	387080 398580
383	**BGS Boreholes** BGS Reference: Sj89ne2000 Drilled Length (m): Not Supplied Borehole Name: Manchester Metro Phase 3 Extension To Commonwealth Wealth Games Stadium Tp J22	A7SE (SE)	662	3	387090 398580
383	**BGS Boreholes** BGS Reference: Sj89ne2029 Drilled Length (m): Not Supplied Borehole Name: Manchester Metro Phase 3 Extension To Commonwealth Wealth Games Stadium Bhj8t1	A7SE (SE)	678	3	387090 398560
383	**BGS Boreholes** BGS Reference: Sj89ne1999 Drilled Length (m): Not Supplied Borehole Name: Manchester Metro Phase 3 Extension To Commonwealth Wealth Games Stadium Tp J21	A7SE (SE)	684	3	387100 398560
383	**BGS Boreholes** BGS Reference: Sj89ne2030 Drilled Length (m): Not Supplied Borehole Name: Manchester Metro Phase 3 Extension To Commonwealth Wealth Games Stadium Bhj8t2	A7SE (SE)	684	3	387100 398560
383	**BGS Boreholes** BGS Reference: Sj89ne2031 Drilled Length (m): Not Supplied Borehole Name: Manchester Metro Phase 3 Extension To Commonwealth Wealth Games Stadium Bhj8t3	A7SE (SE)	684	3	387100 398560

BGS Boreholes Detail

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
383	**BGS Boreholes** BGS Reference: Sj89ne1722 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plots 41 - 44 Th1/41	A7SE (SE)	686	3	387090 398550
383	**BGS Boreholes** BGS Reference: Sj89ne2032 Drilled Length (m): Not Supplied Borehole Name: Manchester Metro Phase 3 Extension To Commonwealth Wealth Games Stadium Bhj8t4	A7SE (SE)	692	3	387100 398550
384	**BGS Boreholes** BGS Reference: Sj89ne1559 Drilled Length (m): 3.4 Borehole Name: Manchester Stadium Phase1 Tpa110	A3NW (S)	642	3	386842 398429
384	**BGS Boreholes** BGS Reference: Sj89ne1547 Drilled Length (m): 4.5 Borehole Name: Manchester Stadium Phase1 Tpa95	A3NW (S)	665	3	386879 398425
385	**BGS Boreholes** BGS Reference: Sj89ne980 Drilled Length (m): 10.28 Borehole Name: Carlisle Street Cpo Area 3	A6SW (SW)	648	3	386090 398480
386	**BGS Boreholes** BGS Reference: Sj89ne1096 Drilled Length (m): Not Supplied Borehole Name: Holland Mill Tpn	A9SE (W)	652	3	385900 399320
386	**BGS Boreholes** BGS Reference: Sj89ne1084 Drilled Length (m): Not Supplied Borehole Name: Holland Mill 2	A9SE (W)	661	3	385890 399320
386	**BGS Boreholes** BGS Reference: Sj89ne1095 Drilled Length (m): Not Supplied Borehole Name: Holland Mill Tpm	A9SE (W)	665	3	385880 399310
386	**BGS Boreholes** BGS Reference: Sj89ne1088 Drilled Length (m): Not Supplied Borehole Name: Holland Mill Tpc	A9SE (W)	670	3	385890 399340
386	**BGS Boreholes** BGS Reference: Sj89ne1094 Drilled Length (m): Not Supplied Borehole Name: Holland Mill Tpl	A9SE (W)	670	3	385870 399300
386	**BGS Boreholes** BGS Reference: Sj89ne1091 Drilled Length (m): Not Supplied Borehole Name: Holland Mill Tpg	A9SE (W)	674	3	385870 399310
386	**BGS Boreholes** BGS Reference: Sj89ne1087 Drilled Length (m): Not Supplied Borehole Name: Holland Mill Tpb	A9SE (W)	683	3	385870 399330
387	**BGS Boreholes** BGS Reference: Sj89ne1019 Drilled Length (m): Not Supplied Borehole Name: Childrens Centre Varley Street Tp6	A10SW (NW)	654	3	385970 399450
387	**BGS Boreholes** BGS Reference: Sj89ne1020 Drilled Length (m): Not Supplied Borehole Name: Childrens Centre Varley Street Tp7	A10SW (NW)	657	3	385960 399440
387	**BGS Boreholes** BGS Reference: Sj89ne1018 Drilled Length (m): Not Supplied Borehole Name: Childrens Centre Varley Street Tp5a	A10NW (NW)	658	3	385980 399470
387	**BGS Boreholes** BGS Reference: Sj89ne1017 Drilled Length (m): Not Supplied Borehole Name: Childrens Centre Varley Street Tp5	A10NW (NW)	663	3	385980 399480

BGS Boreholes Detail

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
387	**BGS Boreholes** BGS Reference: Sj89ne1013 Drilled Length (m): Not Supplied Borehole Name: Childrens Centre Varley Street 4	A10NW (NW)	666	3	385970 399470
387	**BGS Boreholes** BGS Reference: Sj89ne1015 Drilled Length (m): Not Supplied Borehole Name: Childrens Centre Varley Street Tp2	A10NW (NW)	669	3	385980 399490
387	**BGS Boreholes** BGS Reference: Sj89ne1016 Drilled Length (m): Not Supplied Borehole Name: Childrens Centre Varley Street Tp3	A10SW (NW)	671	3	385950 399450
387	**BGS Boreholes** BGS Reference: Sj89ne1021 Drilled Length (m): Not Supplied Borehole Name: Childrens Centre Varley Street Tp8	A10NW (NW)	672	3	385970 399480
387	**BGS Boreholes** BGS Reference: Sj89ne1014 Drilled Length (m): Not Supplied Borehole Name: Childrens Centre Varley Street Tp1a	A10NW (NW)	680	3	385960 399480
388	**BGS Boreholes** BGS Reference: Sj89ne207 Drilled Length (m): 65 Borehole Name: Eastlands R1	A7SE (SE)	656	3	387160 398650
389	**BGS Boreholes** BGS Reference: Sj89ne979 Drilled Length (m): 5.03 Borehole Name: Carlisle Street Cpo Area 2	A6SW (SW)	656	3	386090 398470
389	**BGS Boreholes** BGS Reference: Sj89ne70 Drilled Length (m): 9.75 Borehole Name: Manchester Corp. Purslow Street	A6SW (SW)	690	3	386047 398460
390	**BGS Boreholes** BGS Reference: Sj89ne1544 Drilled Length (m): 4.5 Borehole Name: Manchester Stadium Phase1 Tpa93	A3NW (S)	657	3	386797 398390
390	**BGS Boreholes** BGS Reference: Sj89ne1546 Drilled Length (m): 4.5 Borehole Name: Manchester Stadium Phase1 Tpa94	A3NW (S)	691	3	386837 398371
391	**BGS Boreholes** BGS Reference: Sj89ne544 Drilled Length (m): 21 Borehole Name: Bradford Mill Bridge Bm1	A7SE (SE)	659	3	387240 398740
391	**BGS Boreholes** BGS Reference: Sj89ne576 Drilled Length (m): 19.7 Borehole Name: Bradford Mill Bridge Bm4	A7SE (SE)	677	3	387240 398710
391	**BGS Boreholes** BGS Reference: Sj89ne574 Drilled Length (m): 20.2 Borehole Name: Bradford Mill Bridge Bm2	A7SE (SE)	681	3	387260 398730
391	**BGS Boreholes** BGS Reference: Sj89ne575 Drilled Length (m): 18 Borehole Name: Bradford Mill Bridge Bm3	A7SE (SE)	691	3	387250 398700
392	**BGS Boreholes** BGS Reference: Sj89ne240 Drilled Length (m): 65.7 Borehole Name: Eastlands Plot 38 R1/38	A7SE (SE)	660	3	387210 398700
393	**BGS Boreholes** BGS Reference: Sj89ne1534 Drilled Length (m): 4.8 Borehole Name: Manchester Stadium Phase1 Tpa83	A3NW (SE)	660	3	386902 398446

BGS Boreholes Detail

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
394	**BGS Boreholes** BGS Reference: Sj89ne1689 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 35b Th14	A7SE (SE)	660	3	387010 398530
394	**BGS Boreholes** BGS Reference: Sj89ne1690 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 35b Th15	A7SE (SE)	667	3	387040 398540
394	**BGS Boreholes** BGS Reference: Sj89ne1686 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 35b Th11	A7SE (SE)	687	3	387010 398500
394	**BGS Boreholes** BGS Reference: Sj89ne1687 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 35b Th12	A7SE (SE)	710	3	387040 398490
394	**BGS Boreholes** BGS Reference: Sj89ne1683 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 35b Th8	A7SE (SE)	717	3	387010 398460
395	**BGS Boreholes** BGS Reference: Sj89ne1813 Drilled Length (m): 30 Borehole Name: Holland Mill, Miles Platting B	A9SE (W)	661	3	385900 399340
395	**BGS Boreholes** BGS Reference: Sj89ne1812 Drilled Length (m): 30 Borehole Name: Holland Mill, Miles Platting A	A9SE (W)	674	3	385870 399310
396	**BGS Boreholes** BGS Reference: Sj89ne2500 Drilled Length (m): Not Supplied Borehole Name: Weir Pumps Manchester 5	A11NE (NE)	663	3	387062 399805
397	**BGS Boreholes** BGS Reference: Sj89ne208 Drilled Length (m): 65 Borehole Name: Eastlands R2	A7SE (SE)	665	3	387120 398600
398	**BGS Boreholes** BGS Reference: Sj89ne214 Drilled Length (m): 63 Borehole Name: Eastlands R8	A7SE (SE)	666	3	387070 398560
399	**BGS Boreholes** BGS Reference: Sj89ne210 Drilled Length (m): 65 Borehole Name: Eastlands R4	A7SE (SE)	668	3	386970 398490
400	**BGS Boreholes** BGS Reference: Sj89ne1427 Drilled Length (m): 33.75 Borehole Name: Manchester Stadium Phase1 A15	A3NW (S)	673	3	386861 398404
401	**BGS Boreholes** BGS Reference: Sj89ne2301 Drilled Length (m): Not Supplied Borehole Name: Holland Street Ancoats Manchester Vol 1 2	A5NE (W)	673	3	385810 399110
402	**BGS Boreholes** BGS Reference: Sj89ne1712 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plots 35c,35d & 36 Th22/35	A3NW (S)	675	3	386890 398420
403	**BGS Boreholes** BGS Reference: Sj89ne2516 Drilled Length (m): Not Supplied Borehole Name: Weir Pumps Manchester Tp16	A11NE (NE)	675	3	387215 399693
403	**BGS Boreholes** BGS Reference: Sj89ne2434 Drilled Length (m): Not Supplied Borehole Name: Weir Pumps Additional Works Nov 2004 Tp Y	A11NE (NE)	679	3	387239 399672

BGS Boreholes Detail

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
403	**BGS Boreholes** BGS Reference: Sj89ne2530 Drilled Length (m): Not Supplied Borehole Name: Weir Pumps Manchester Tp52	A11NE (NE)	693	3	387249 399682
403	**BGS Boreholes** BGS Reference: Sj89ne1114 Drilled Length (m): Not Supplied Borehole Name: Briscoe Lane 6	A11NE (NE)	710	3	387280 399670
404	**BGS Boreholes** BGS Reference: Sj89ne1112 Drilled Length (m): Not Supplied Borehole Name: Briscoe Lane 4	A12SW (E)	678	3	387400 399360
404	**BGS Boreholes** BGS Reference: Sj89ne1108 Drilled Length (m): Not Supplied Borehole Name: Briscoe Lane/Riverpark Road 9	A12SW (E)	712	3	387430 399380
405	**BGS Boreholes** BGS Reference: Sj89ne1715 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plots 35c,35d & 36 Th25/35	A3NW (SE)	683	3	386920 398430
405	**BGS Boreholes** BGS Reference: Sj89ne1679 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 35b Th4	A3NE (SE)	726	3	386990 398430
405	**BGS Boreholes** BGS Reference: Sj89ne1677 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 35b Th2	A3NE (SE)	731	3	386960 398400
405	**BGS Boreholes** BGS Reference: Sj89ne1676 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 35b Th1	A3NE (SE)	757	3	386990 398390
406	**BGS Boreholes** BGS Reference: Sj89ne1794 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 63 Th2/63	A3NW (S)	689	3	386850 398380
406	**BGS Boreholes** BGS Reference: Sj89ne1792 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 63 Bh1/63	A3NW (S)	698	3	386850 398370
406	**BGS Boreholes** BGS Reference: Sj89ne1793 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 63 Th1/63	A3NW (S)	717	3	386890 398370
407	**BGS Boreholes** BGS Reference: Sj89ne1086 Drilled Length (m): Not Supplied Borehole Name: Holland Mill Tpa	A9SE (W)	692	3	385850 399310
408	**BGS Boreholes** BGS Reference: Sj89ne577 Drilled Length (m): 34.25 Borehole Name: Bradford Mill Bridge Bm5	A7SE (SE)	695	3	387270 398720
409	**BGS Boreholes** BGS Reference: Sj89ne209 Drilled Length (m): 65 Borehole Name: Eastlands R3	A3NW (SE)	697	3	386930 398420
410	**BGS Boreholes** BGS Reference: Sj89ne2528 Drilled Length (m): Not Supplied Borehole Name: Weir Pumps Manchester Tp50	A11NE (NE)	699	3	387199 399744
410	**BGS Boreholes** BGS Reference: Sj89ne2506 Drilled Length (m): Not Supplied Borehole Name: Weir Pumps Manchester 10	A11NE (NE)	701	3	387224 399722

BGS Boreholes Detail

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
410	**BGS Boreholes** BGS Reference: Sj89ne2529 Drilled Length (m): Not Supplied Borehole Name: Weir Pumps Manchester Tp51	A11NE (NE)	717	3	387247 399721
410	**BGS Boreholes** BGS Reference: Sj89ne2421 Drilled Length (m): Not Supplied Borehole Name: Weir Pumps Additional Works Nov 2004 Tp K	A11NE (NE)	734	3	387236 399757
410	**BGS Boreholes** BGS Reference: Sj89ne2420 Drilled Length (m): Not Supplied Borehole Name: Weir Pumps Additional Works Nov 2004 Tp J	A11NE (NE)	738	3	387247 399751
410	**BGS Boreholes** BGS Reference: Sj89ne2422 Drilled Length (m): Not Supplied Borehole Name: Weir Pumps Additional Works Nov 2004 Tt L	A11NE (NE)	740	3	387235 399766
410	**BGS Boreholes** BGS Reference: Sj89ne2508 Drilled Length (m): Not Supplied Borehole Name: Weir Pumps Manchester 13	A11NE (NE)	748	3	387269 399743
410	**BGS Boreholes** BGS Reference: Sj89ne2522 Drilled Length (m): Not Supplied Borehole Name: Weir Pumps Manchester Tp40	A11NE (NE)	786	3	387279 399788
411	**BGS Boreholes** BGS Reference: Sj89ne51 Drilled Length (m): 5.94 Borehole Name: Manchester Corp. Grimshaw Lane	A15SW (N)	706	3	386751 399972
412	**BGS Boreholes** BGS Reference: Sj89ne628 Drilled Length (m): 25.33 Borehole Name: Lower Medlock Ucso 501	A2NW (SW)	706	3	386140 398380
413	**BGS Boreholes** BGS Reference: Sj89ne1998 Drilled Length (m): Not Supplied Borehole Name: Manchester Metro Phase 3 Extension To Commonwealth Wealth Games Stadium Tp J20	A7SE (SE)	706	3	387110 398540
413	**BGS Boreholes** BGS Reference: Sj89ne1723 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plots 41 - 44 Th2/41	A7SE (SE)	716	3	387100 398520
413	**BGS Boreholes** BGS Reference: Sj89ne1727 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plots 41 - 44 Bh1/41	A7SE (SE)	738	3	387110 398500
413	**BGS Boreholes** BGS Reference: Sj89ne1997 Drilled Length (m): Not Supplied Borehole Name: Manchester Metro Phase 3 Extension To Commonwealth Wealth Games Stadium Tp J19	A7SE (SE)	744	3	387120 398500
413	**BGS Boreholes** BGS Reference: Sj89ne2198 Drilled Length (m): Not Supplied Borehole Name: Manchester Metrolink-Additional Works Tpa12	A7SE (SE)	744	3	387120 398500
413	**BGS Boreholes** BGS Reference: Sj89ne1724 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plots 41 - 44 Th3/41	A7SE (SE)	755	3	387110 398480
413	**BGS Boreholes** BGS Reference: Sj89ne2027 Drilled Length (m): Not Supplied Borehole Name: Manchester Metro Phase 3 Extension To Commonwealth Wealth Games Stadium Bhj7	A7SE (SE)	766	3	387130 398480
413	**BGS Boreholes** BGS Reference: Sj89ne1996 Drilled Length (m): Not Supplied Borehole Name: Manchester Metro Phase 3 Extension To Commonwealth Wealth Games Stadium Tp J18	A7SE (SE)	769	3	387120 398470

BGS Boreholes Detail

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
413	**BGS Boreholes** BGS Reference: Sj89ne1725 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plots 41 - 44 Th4/41	A7SE (SE)	777	3	387120 398460
413	**BGS Boreholes** BGS Reference: Sj89ne1726 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plots 41 - 44 Th5/41	A7SE (SE)	786	3	387150 398470
414	**BGS Boreholes** BGS Reference: Sj89ne82 Drilled Length (m): 8.23 Borehole Name: Manchester Corp. Hutchings Street	A2NW (SW)	711	3	386091 398403
415	**BGS Boreholes** BGS Reference: Sj89ne139 Drilled Length (m): Not Supplied Borehole Name: Boring At W. Of Bank Street, Phillips Park	A12SW (E)	711	3	387446 399293
416	**BGS Boreholes** BGS Reference: Sj89ne2510 Drilled Length (m): Not Supplied Borehole Name: Weir Pumps Manchester Tp10	A15SE (NE)	711	3	387103 399836
416	**BGS Boreholes** BGS Reference: Sj89ne2524 Drilled Length (m): Not Supplied Borehole Name: Weir Pumps Manchester Tp46	A15SE (NE)	712	3	387140 399811
416	**BGS Boreholes** BGS Reference: Sj89ne2534 Drilled Length (m): Not Supplied Borehole Name: Weir Pumps Manchester Tp58	A15SE (NE)	724	3	387127 399835
416	**BGS Boreholes** BGS Reference: Sj89ne2503 Drilled Length (m): Not Supplied Borehole Name: Weir Pumps Manchester 8	A15SE (NE)	727	3	387091 399862
416	**BGS Boreholes** BGS Reference: Sj89ne2504 Drilled Length (m): Not Supplied Borehole Name: Weir Pumps Manchester 8a	A15SE (NE)	731	3	387086 399870
416	**BGS Boreholes** BGS Reference: Sj89ne2536 Drilled Length (m): Not Supplied Borehole Name: Weir Pumps Manchester Tp73	A15SE (NE)	746	3	387119 399867
417	**BGS Boreholes** BGS Reference: Sj89ne2505 Drilled Length (m): Not Supplied Borehole Name: Weir Pumps Manchester 9	A11NE (NE)	712	3	387158 399797
417	**BGS Boreholes** BGS Reference: Sj89ne2532 Drilled Length (m): Not Supplied Borehole Name: Weir Pumps Manchester Tp56	A15SE (NE)	731	3	387161 399819
418	**BGS Boreholes** BGS Reference: Sj89ne1548 Drilled Length (m): 3.7 Borehole Name: Manchester Stadium Phase1 Tpa96	A3NE (SE)	718	3	386963 398419
419	**BGS Boreholes** BGS Reference: Sj89ne2023 Drilled Length (m): Not Supplied Borehole Name: Manchester Metro Phase 3 Extension To Commonwealth Wealth Games Stadium Bhe4	A6SW (SW)	719	3	385980 398480
419	**BGS Boreholes** BGS Reference: Sj89ne2070 Drilled Length (m): Not Supplied Borehole Name: Ashton Canal Corridor Holt Town Industrial Estate Vol 2 Bhv 9	A6SW (SW)	726	3	385970 398480
419	**BGS Boreholes** BGS Reference: Sj89ne1977 Drilled Length (m): Not Supplied Borehole Name: Manchester Metro Phase 3 Extension To Commonwealth Wealth Games Stadium Tp D4	A5SE (SW)	754	3	385930 398480

BGS Boreholes Detail

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
420	**BGS Boreholes** BGS Reference: Sj89ne1428 Drilled Length (m): 13.42 Borehole Name: Manchester Stadium Phase1 A17	A3NW (SE)	729	3	386927 398380
421	**BGS Boreholes** BGS Reference: Sj89ne1674 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 35b Bh2	A3NE (SE)	731	3	387020 398450
421	**BGS Boreholes** BGS Reference: Sj89ne1680 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 35b Th5	A3NE (SE)	761	3	387020 398410
422	**BGS Boreholes** BGS Reference: Sj89ne6 Drilled Length (m): 7.32 Borehole Name: Manchester Corp. Off Oldham Road	A9SE (W)	732	3	385761 399169
423	**BGS Boreholes** BGS Reference: Sj89ne1549 Drilled Length (m): 4.5 Borehole Name: Manchester Stadium Phase1 Tpa97	A3NW (S)	732	3	386909 398364
424	**BGS Boreholes** BGS Reference: Sj89ne1688 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 35b Th13	A7SE (SE)	733	3	387070 398480
425	**BGS Boreholes** BGS Reference: Sj89ne1728 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plots 48 & 51 Bh1/48	A7SE (SE)	733	3	387200 398580
425	**BGS Boreholes** BGS Reference: Sj89ne1732 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plots 48 & 51 Th1/48	A7SE (SE)	740	3	387220 398590
425	**BGS Boreholes** BGS Reference: Sj89ne1729 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plots 48 & 51 Bh2/48	A7SE (SE)	769	3	387250 398580
425	**BGS Boreholes** BGS Reference: Sj89ne1733 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plots 48 & 51 Th2/48	A7SE (SE)	769	3	387230 398560
425	**BGS Boreholes** BGS Reference: Sj89ne1735 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plots 48 & 51 Th4/48	A7SE (SE)	783	3	387230 398540
425	**BGS Boreholes** BGS Reference: Sj89ne1734 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plots 48 & 51 Th3/48	A7SE (SE)	790	3	387260 398560
425	**BGS Boreholes** BGS Reference: Sj89ne1736 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plots 48 & 51 Th5/48	A7SE (SE)	804	3	387260 398540
425	**BGS Boreholes** BGS Reference: Sj89ne1737 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plots 48 & 51 Th6/48	A7SE (SE)	811	3	387280 398550
426	**BGS Boreholes** BGS Reference: Sj89ne65 Drilled Length (m): 9.45 Borehole Name: Manchester Corp. Beswick Street	A6SW (SW)	734	3	385941 398498
426	**BGS Boreholes** BGS Reference: Sj89ne66 Drilled Length (m): 7.62 Borehole Name: Manchester Corp. Beswick Street	A6SW (SW)	735	3	385970 398468

BGS Boreholes Detail

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
426	**BGS Boreholes** BGS Reference: Sj89ne629 Drilled Length (m): 7.4 Borehole Name: Lower Medlock Ucso 511	A6SW (SW)	740	3	385950 398480
426	**BGS Boreholes** BGS Reference: Sj89ne61 Drilled Length (m): 9.14 Borehole Name: Manchester Corp. Beswick Street	A5SE (SW)	744	3	385914 398513
427	**BGS Boreholes** BGS Reference: Sj89ne2525 Drilled Length (m): Not Supplied Borehole Name: Weir Pumps Manchester Tp47	A11NE (NE)	735	3	387189 399802
427	**BGS Boreholes** BGS Reference: Sj89ne2527 Drilled Length (m): Not Supplied Borehole Name: Weir Pumps Manchester Tp49	A11NE (NE)	739	3	387230 399770
427	**BGS Boreholes** BGS Reference: Sj89ne2417 Drilled Length (m): Not Supplied Borehole Name: Weir Pumps Additional Works Nov 2004 Tp G	A15SE (NE)	750	3	387202 399811
427	**BGS Boreholes** BGS Reference: Sj89ne2507 Drilled Length (m): Not Supplied Borehole Name: Weir Pumps Manchester 12	A15SE (NE)	754	3	387199 399818
427	**BGS Boreholes** BGS Reference: Sj89ne2418 Drilled Length (m): Not Supplied Borehole Name: Weir Pumps Additional Works Nov 2004 Tp H	A15SE (NE)	757	3	387207 399816
427	**BGS Boreholes** BGS Reference: Sj89ne2416 Drilled Length (m): Not Supplied Borehole Name: Weir Pumps Additional Works Nov 2004 Tt F	A15SE (NE)	766	3	387219 399817
427	**BGS Boreholes** BGS Reference: Sj89ne2414 Drilled Length (m): Not Supplied Borehole Name: Weir Pumps Additional Works Nov 2004 Tp D	A15SE (NE)	769	3	387232 399809
427	**BGS Boreholes** BGS Reference: Sj89ne2415 Drilled Length (m): Not Supplied Borehole Name: Weir Pumps Additional Works Nov 2004 Tp E	A15SE (NE)	771	3	387231 399813
427	**BGS Boreholes** BGS Reference: Sj89ne2526 Drilled Length (m): Not Supplied Borehole Name: Weir Pumps Manchester Tp48	A15SE (NE)	781	3	387238 399820
428	**BGS Boreholes** BGS Reference: Sj89ne7 Drilled Length (m): 7.62 Borehole Name: Manchester Corp. Off Oldham Road	A9SE (W)	737	3	385773 399235
429	**BGS Boreholes** BGS Reference: Sj89ne64 Drilled Length (m): 10.97 Borehole Name: Manchester Corp. Beswick Street	A5SE (SW)	739	3	385895 398543
430	**BGS Boreholes** BGS Reference: Sj89ne101 Drilled Length (m): 312 Borehole Name: Parker Shaft Bradford Colliery	A3NE (SE)	742	3	387017 398432
430	**BGS Boreholes** BGS Reference: Sj89ne102 Drilled Length (m): 646.61 Borehole Name: Parker Shaft Bradford Colliery	A3NE (SE)	766	3	387049 398429
430	**BGS Boreholes** BGS Reference: Sj89ne103 Drilled Length (m): 102.79 Borehole Name: Top Of Deep Shaft Bradford Colliery	A3NE (SE)	770	3	387039 398415

BGS Boreholes Detail

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
430	**BGS Boreholes** BGS Reference: Sj89ne1418 Drilled Length (m): 50.85 Borehole Name: Manchester Stadium Phase1 A09	A3NE (SE)	816	3	387061 398372
431	**BGS Boreholes** BGS Reference: Sj89ne2531 Drilled Length (m): Not Supplied Borehole Name: Weir Pumps Manchester Tp53	A12NW (NE)	743	3	387290 399711
431	**BGS Boreholes** BGS Reference: Sj89ne2426 Drilled Length (m): Not Supplied Borehole Name: Weir Pumps Additional Works Nov 2004 Tp P	A12NW (NE)	759	3	387306 399717
431	**BGS Boreholes** BGS Reference: Sj89ne2520 Drilled Length (m): Not Supplied Borehole Name: Weir Pumps Manchester Tp38	A12NW (NE)	765	3	387296 399738
431	**BGS Boreholes** BGS Reference: Sj89ne2519 Drilled Length (m): Not Supplied Borehole Name: Weir Pumps Manchester Tp37	A12NW (NE)	793	3	387330 399741
432	**BGS Boreholes** BGS Reference: Sj89ne1212 Drilled Length (m): Not Supplied Borehole Name: Gwelo Street Manchester Tpa	A8NW (E)	748	3	387430 398910
432	**BGS Boreholes** BGS Reference: Sj89ne1209 Drilled Length (m): Not Supplied Borehole Name: Gwelo Street Manchester 1	A8NW (E)	748	3	387430 398910
433	**BGS Boreholes** BGS Reference: Sj89ne1682 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 35b Th7	A3NE (SE)	752	3	387040 398440
433	**BGS Boreholes** BGS Reference: Sj89ne1681 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 35b Th6	A3NE (SE)	782	3	387080 398430
433	**BGS Boreholes** BGS Reference: Sj89ne1675 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 35b Bh3	A3NE (SE)	800	3	387100 398420
433	**BGS Boreholes** BGS Reference: Sj89ne1783 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 60 Bh2	A3NE (SE)	809	3	387070 398390
433	**BGS Boreholes** BGS Reference: Sj89ne1785 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 60 Th1	A3NE (SE)	809	3	387100 398410
434	**BGS Boreholes** BGS Reference: Sj89ne2517 Drilled Length (m): Not Supplied Borehole Name: Weir Pumps Manchester Tp17	A15SE (NE)	754	3	387092 399894
434	**BGS Boreholes** BGS Reference: Sj89ne2411 Drilled Length (m): Not Supplied Borehole Name: Weir Pumps Additional Works Nov 2004 Tp A	A15SE (NE)	786	3	387135 399905
435	**BGS Boreholes** BGS Reference: Sj89ne630 Drilled Length (m): 30 Borehole Name: Lower Medlock Ucso 512	A2NW (SW)	755	3	385960 398450
436	**BGS Boreholes** BGS Reference: Sj89ne1210 Drilled Length (m): Not Supplied Borehole Name: Gwelo Street Manchester 2	A8NW (E)	756	3	387430 398890

BGS Boreholes Detail

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
436	**BGS Boreholes** BGS Reference: Sj89ne1213 Drilled Length (m): Not Supplied Borehole Name: Gwelo Street Manchester Tpb	A8NW (E)	761	3	387440 398900
436	**BGS Boreholes** BGS Reference: Sj89ne1214 Drilled Length (m): Not Supplied Borehole Name: Gwelo Street Manchester Tpc	A8NW (E)	765	3	387440 398890
436	**BGS Boreholes** BGS Reference: Sj89ne1215 Drilled Length (m): Not Supplied Borehole Name: Gwelo Street Manchester Tpd	A8NW (E)	767	3	387450 398910
436	**BGS Boreholes** BGS Reference: Sj89ne1216 Drilled Length (m): Not Supplied Borehole Name: Gwelo Street Manchester Tpe	A8NW (E)	771	3	387450 398900
436	**BGS Boreholes** BGS Reference: Sj89ne1217 Drilled Length (m): Not Supplied Borehole Name: Gwelo Street Manchester Tpf	A8NW (E)	775	3	387450 398890
436	**BGS Boreholes** BGS Reference: Sj89ne1211 Drilled Length (m): Not Supplied Borehole Name: Gwelo Street Manchester 3	A8NW (E)	780	3	387460 398900
436	**BGS Boreholes** BGS Reference: Sj89ne1218 Drilled Length (m): Not Supplied Borehole Name: Gwelo Street Manchester Tpg	A8NW (E)	782	3	387470 398920
436	**BGS Boreholes** BGS Reference: Sj89ne1219 Drilled Length (m): Not Supplied Borehole Name: Gwelo Street Manchester Tph	A8NW (E)	789	3	387470 398900
436	**BGS Boreholes** BGS Reference: Sj89ne1221 Drilled Length (m): Not Supplied Borehole Name: Gwelo Street Manchester Tpk	A8NW (E)	791	3	387480 398920
436	**BGS Boreholes** BGS Reference: Sj89ne1220 Drilled Length (m): Not Supplied Borehole Name: Gwelo Street Manchester Tpj	A8NW (E)	793	3	387470 398890
436	**BGS Boreholes** BGS Reference: Sj89ne1222 Drilled Length (m): Not Supplied Borehole Name: Gwelo Street Manchester Tpl	A8NW (E)	798	3	387480 398900
436	**BGS Boreholes** BGS Reference: Sj89ne1223 Drilled Length (m): Not Supplied Borehole Name: Gwelo Street Manchester Tpm	A8NW (E)	802	3	387480 398890
437	**BGS Boreholes** BGS Reference: Sj89ne2343 Drilled Length (m): 4.4 Borehole Name: Alan Turing Way Miles Platting Manchester Tp12	A12NW (NE)	757	3	387440 399490
438	**BGS Boreholes** BGS Reference: Sj89ne63 Drilled Length (m): 13.72 Borehole Name: Manchester Corp. Beswick Street	A5SE (SW)	761	3	385848 398570
439	**BGS Boreholes** BGS Reference: Sj89ne81 Drilled Length (m): 8.23 Borehole Name: Manchester Corp. Holt Town & Beswick	A2NW (SW)	763	3	386118 398327
440	**BGS Boreholes** BGS Reference: Sj89ne2523 Drilled Length (m): Not Supplied Borehole Name: Weir Pumps Manchester Tp45	A15SE (NE)	764	3	387172 399852

BGS Boreholes Detail

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
440	**BGS Boreholes** BGS Reference: Sj89ne2535 Drilled Length (m): Not Supplied Borehole Name: Weir Pumps Manchester Tp72	A15SE (NE)	765	3	387161 399862
441	**BGS Boreholes** BGS Reference: Sj89ne8 Drilled Length (m): 6.4 Borehole Name: Manchester Corp. Off Oldham Road	A9SE (W)	765	3	385763 399291
442	**BGS Boreholes** BGS Reference: Sj89ne1550 Drilled Length (m): 4.5 Borehole Name: Manchester Stadium Phase1 Tpa98	A3NE (SE)	765	3	386953 398354
442	**BGS Boreholes** BGS Reference: Sj89ne1563 Drilled Length (m): 4.5 Borehole Name: Manchester Stadium Phase1 Tpa113	A3NE (SE)	797	3	386993 398342
443	**BGS Boreholes** BGS Reference: Sj89ne5 Drilled Length (m): 6.86 Borehole Name: Manchester Corp. Off Oldham Road	A5NE (W)	766	3	385714 399093
444	**BGS Boreholes** BGS Reference: Sj89ne918 Drilled Length (m): Not Supplied Borehole Name: Bradford Colliery	A3NE (SE)	766	3	387050 398430
445	**BGS Boreholes** BGS Reference: Sj89ne2019 Drilled Length (m): Not Supplied Borehole Name: Manchester Metro Phase 3 Extension To Commonwealth Wealth Games Stadium Bhd2	A5SE (SW)	768	3	385930 398460
445	**BGS Boreholes** BGS Reference: Sj89ne1976 Drilled Length (m): Not Supplied Borehole Name: Manchester Metro Phase 3 Extension To Commonwealth Wealth Games Stadium Tp D3	A1NE (SW)	797	3	385900 398450
446	**BGS Boreholes** BGS Reference: Sj89ne1562 Drilled Length (m): 4.5 Borehole Name: Manchester Stadium Phase1 Tpa112	A3NE (SE)	772	3	386987 398369
446	**BGS Boreholes** BGS Reference: Sj89ne1552 Drilled Length (m): 4 Borehole Name: Manchester Stadium Phase1 Tpa101	A3NE (SE)	774	3	387016 398389
446	**BGS Boreholes** BGS Reference: Sj89ne1594 Drilled Length (m): 4 Borehole Name: Manchester Stadium Phase1 Tpa101	A3NE (SE)	774	3	387016 398389
446	**BGS Boreholes** BGS Reference: Sj89ne1596 Drilled Length (m): 10 Borehole Name: Manchester Stadium Phase1 Sh Hh2	A3NE (SE)	774	3	387015 398389
446	**BGS Boreholes** BGS Reference: Sj89ne1553 Drilled Length (m): .3 Borehole Name: Manchester Stadium Phase1 Tpa101a	A3NE (SE)	782	3	387018 398381
446	**BGS Boreholes** BGS Reference: Sj89ne1564 Drilled Length (m): 4.5 Borehole Name: Manchester Stadium Phase1 Tpa114	A3NE (SE)	811	3	387028 398352
447	**BGS Boreholes** BGS Reference: Sj89ne1595 Drilled Length (m): 17.5 Borehole Name: Manchester Stadium Phase1 Sh Hh1	A3NE (SE)	773	3	387014 398389
448	**BGS Boreholes** BGS Reference: Sj89ne631 Drilled Length (m): 10 Borehole Name: Lower Medlock Ucso 513	A1NE (SW)	783	3	385930 398440

BGS Boreholes Detail

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
448	**BGS Boreholes** BGS Reference: Sj89ne67 Drilled Length (m): 8.53 Borehole Name: Manchester Corp. Mitchell Street	A1NE (SW)	786	3	385919 398446
449	**BGS Boreholes** BGS Reference: Sj89ne1787 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 60 Th4	A3NE (SE)	784	3	387020 398380
449	**BGS Boreholes** BGS Reference: Sj89ne1784 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 60 Bh3	A3NE (SE)	789	3	386990 398350
449	**BGS Boreholes** BGS Reference: Sj89ne1790 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 60 Th7	A3NE (SE)	789	3	386990 398350
449	**BGS Boreholes** BGS Reference: Sj89ne1791 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 60 Th8	A3NE (SE)	821	3	387030 398340
450	**BGS Boreholes** BGS Reference: Sj89ne2413 Drilled Length (m): Not Supplied Borehole Name: Weir Pumps Additional Works Nov 2004 Tp C	A15SE (NE)	791	3	387146 399904
450	**BGS Boreholes** BGS Reference: Sj89ne2412 Drilled Length (m): Not Supplied Borehole Name: Weir Pumps Additional Works Nov 2004 Tp B	A15SE (NE)	793	3	387155 399900
451	**BGS Boreholes** BGS Reference: Sj89ne10 Drilled Length (m): 7.92 Borehole Name: Manchester Corp. Off Oldham Road	A9SE (NW)	795	3	385814 399464
452	**BGS Boreholes** BGS Reference: Sj89ne1730 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plots 48 & 51 Bh3/48	A7SE (SE)	797	3	387240 398530
453	**BGS Boreholes** BGS Reference: Sj89ne1995 Drilled Length (m): Not Supplied Borehole Name: Manchester Metro Phase 3 Extension To Commonwealth Wealth Games Stadium Tp J17	A7SE (SE)	800	3	387160 398460
453	**BGS Boreholes** BGS Reference: Sj89ne1994 Drilled Length (m): Not Supplied Borehole Name: Manchester Metro Phase 3 Extension To Commonwealth Wealth Games Stadium Tp J16	A3NE (SE)	813	3	387140 398430
454	**BGS Boreholes** BGS Reference: Sj89ne9 Drilled Length (m): 7.16 Borehole Name: Manchester Corp. Off Oldham Road	A9SE (W)	801	3	385774 399401
454	**BGS Boreholes** BGS Reference: Sj89ne612 Drilled Length (m): 5.5 Borehole Name: Lower Medlock Ucso 510	A9SE (W)	805	3	385780 399420
455	**BGS Boreholes** BGS Reference: Sj89ne1747 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plots 56 & 57 Bh2/57	A8SW (E)	805	3	387440 398790
455	**BGS Boreholes** BGS Reference: Sj89ne1756 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plots 56 & 57 Th1/57	A8NW (E)	810	3	387450 398800
456	**BGS Boreholes** BGS Reference: Sj89ne613 Drilled Length (m): 15 Borehole Name: Lower Medlock Ucso 510a/B	A9SE (W)	813	3	385760 399400

BGS Boreholes Detail

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
457	**BGS Boreholes** BGS Reference: Sj89ne4 Drilled Length (m): 8.23 Borehole Name: Manchester Corp. Off Oldham Road	A5NE (W)	816	3	385659 399017
458	**BGS Boreholes** BGS Reference: Sj89ne2509 Drilled Length (m): Not Supplied Borehole Name: Weir Pumps Manchester 16	A12NW (NE)	816	3	387313 399795
458	**BGS Boreholes** BGS Reference: Sj89ne2521 Drilled Length (m): Not Supplied Borehole Name: Weir Pumps Manchester Tp39	A12NW (NE)	829	3	387328 399799
459	**BGS Boreholes** BGS Reference: Sj89ne2428 Drilled Length (m): Not Supplied Borehole Name: Weir Pumps Additional Works Nov 2004 Tp S	A12NW (NE)	817	3	387352 399751
459	**BGS Boreholes** BGS Reference: Sj89ne2518 Drilled Length (m): Not Supplied Borehole Name: Weir Pumps Manchester Tp36	A12NW (NE)	834	3	387364 399764
460	**BGS Boreholes** BGS Reference: Sj89ne521 Drilled Length (m): 10 Borehole Name: Roberts Cash & Carry 2	A3NE (SE)	818	3	387100 398400
460	**BGS Boreholes** BGS Reference: Sj89ne1589 Drilled Length (m): .4 Borehole Name: Manchester Stadium Phase1 Tph/1	A3NE (SE)	820	3	387061 398367
460	**BGS Boreholes** BGS Reference: Sj89ne1590 Drilled Length (m): .4 Borehole Name: Manchester Stadium Phase1 Tph/2	A3NE (SE)	823	3	387065 398367
460	**BGS Boreholes** BGS Reference: Sj89ne1565 Drilled Length (m): 3.5 Borehole Name: Manchester Stadium Phase1 Tpa115	A3NE (SE)	839	3	387091 398369
460	**BGS Boreholes** BGS Reference: Sj89ne520 Drilled Length (m): 10 Borehole Name: Roberts Cash & Carry 1	A3NE (SE)	849	3	387110 398370
461	**BGS Boreholes** BGS Reference: Sj89ne1788 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 60 Th5	A3NE (SE)	818	3	387050 398360
461	**BGS Boreholes** BGS Reference: Sj89ne1786 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 60 Th3	A3NE (SE)	835	3	387100 398380
461	**BGS Boreholes** BGS Reference: Sj89ne1789 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 60 Th6	A3NE (SE)	845	3	387080 398350
461	**BGS Boreholes** BGS Reference: Sj89ne1782 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 60 Bh1	A3NE (SE)	852	3	387090 398350
461	**BGS Boreholes** BGS Reference: Sj89ne1781 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plot 60 Bhr1/60	A3NE (SE)	865	3	387110 398350
462	**BGS Boreholes** BGS Reference: Sj89ne28 Drilled Length (m): 10.67 Borehole Name: Manchester Corp. Waugh Street	A2NW (SW)	821	3	386103 398270

BGS Boreholes Detail

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
463	**BGS Boreholes** BGS Reference: Sj89ne62 Drilled Length (m): 13.41 Borehole Name: Manchester Corp. Beswick Street	A5SE (SW)	825	3	385737 398632
464	**BGS Boreholes** BGS Reference: Sj89ne1738 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plots 48 & 51 Th7/48	A7SE (SE)	825	3	387260 398510
464	**BGS Boreholes** BGS Reference: Sj89ne1739 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plots 48 & 51 Th8/48	A8SW (SE)	839	3	387290 398520
464	**BGS Boreholes** BGS Reference: Sj89ne1731 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plots 48 & 51 Bh4/48	A8SW (SE)	840	3	387300 398530
465	**BGS Boreholes** BGS Reference: Sj89ne2393 Drilled Length (m): 6.5 Borehole Name: Every Street, Ancoats 5.	A2NW (SW)	830	3	385944 398364
466	**BGS Boreholes** BGS Reference: Sj89ne12 Drilled Length (m): 8.38 Borehole Name: Manchester Corp. Off Oldham Road	A9NE (NW)	831	3	385839 399570
467	**BGS Boreholes** BGS Reference: Sj89ne1115 Drilled Length (m): 20.72 Borehole Name: Manchester 1	A3NE (SE)	833	3	387130 398400
468	**BGS Boreholes** BGS Reference: Sj89ne1757 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plots 56 & 57 Th2/57	A8NW (E)	833	3	387480 398810
468	**BGS Boreholes** BGS Reference: Sj89ne1746 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plots 56 & 57 Bh1/57	A8NW (E)	852	3	387500 398810
468	**BGS Boreholes** BGS Reference: Sj89ne1754 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plots 56 & 57 Th8/56	A8SW (E)	864	3	387500 398780
468	**BGS Boreholes** BGS Reference: Sj89ne1741 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plots 56 & 57 Bhr1/57	A8NW (E)	866	3	387520 398820
468	**BGS Boreholes** BGS Reference: Sj89ne1758 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plots 56 & 57 Th3/57	A8NW (E)	866	3	387520 398820
468	**BGS Boreholes** BGS Reference: Sj89ne1753 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plots 56 & 57 Th7/56	A8SW (E)	900	3	387540 398780
469	**BGS Boreholes** BGS Reference: Sj89ne1551 Drilled Length (m): 4.5 Borehole Name: Manchester Stadium Phase1 Tpa99	A3NE (SE)	835	3	387050 398339
470	**BGS Boreholes** BGS Reference: Sj89ne3 Drilled Length (m): 6.4 Borehole Name: Manchester Corp. Off Oldham Road	A5NE (W)	836	3	385641 398950
470	**BGS Boreholes** BGS Reference: Sj89ne2 Drilled Length (m): 6.4 Borehole Name: Manchester Corp. Butler Street Ancoats	A5NE (W)	856	3	385619 398986

BGS Boreholes Detail

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
471	**BGS Boreholes** BGS Reference: Sj89ne95 Drilled Length (m): 43.59 Borehole Name: Bradford Colliery Main North Cross Cut	A8SW (SE)	839	3	387401 398655
472	**BGS Boreholes** BGS Reference: Sj89ne1755 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plots 56 & 57 Th9/56	A8SW (E)	841	3	387470 398770
472	**BGS Boreholes** BGS Reference: Sj89ne1743 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plots 56 & 57 Bh2/56	A8SW (SE)	854	3	387470 398740
473	**BGS Boreholes** BGS Reference: Sj89ne1041 Drilled Length (m): Not Supplied Borehole Name: Every Street Ths	A2NW (SW)	842	3	385980 398320
473	**BGS Boreholes** BGS Reference: Sj89ne1027 Drilled Length (m): Not Supplied Borehole Name: Every Street 6	A2NW (SW)	862	3	385960 398310
473	**BGS Boreholes** BGS Reference: Sj89ne1042 Drilled Length (m): Not Supplied Borehole Name: Every Street Tht	A1NE (SW)	873	3	385930 398320
474	**BGS Boreholes** BGS Reference: Sj89ne11 Drilled Length (m): 8.23 Borehole Name: Manchester Corp. Off Oldham Road	A9NE (NW)	847	3	385787 399520
475	**BGS Boreholes** BGS Reference: Sj89ne213 Drilled Length (m): 65 Borehole Name: Eastlands R7	A7SE (SE)	848	3	387250 398470
476	**BGS Boreholes** BGS Reference: Sj89ne1975 Drilled Length (m): Not Supplied Borehole Name: Manchester Metro Phase 3 Extension To Commonwealth Wealth Games Stadium Tp D2	A1NE (SW)	848	3	385840 398440
477	**BGS Boreholes** BGS Reference: Sj89ne1993 Drilled Length (m): Not Supplied Borehole Name: Manchester Metro Phase 3 Extension To Commonwealth Wealth Games Stadium Tp J15	A3NE (SE)	849	3	387160 398400
477	**BGS Boreholes** BGS Reference: Sj89ne2026 Drilled Length (m): Not Supplied Borehole Name: Manchester Metro Phase 3 Extension To Commonwealth Wealth Games Stadium Bhj6	A3NE (SE)	871	3	387170 398380
477	**BGS Boreholes** BGS Reference: Sj89ne1991 Drilled Length (m): Not Supplied Borehole Name: Manchester Metro Phase 3 Extension To Commonwealth Wealth Games Stadium Tp J13	A3NE (SE)	883	3	387190 398380
477	**BGS Boreholes** BGS Reference: Sj89ne1992 Drilled Length (m): Not Supplied Borehole Name: Manchester Metro Phase 3 Extension To Commonwealth Wealth Games Stadium Tp J14	A3NE (SE)	885	3	387180 398370
478	**BGS Boreholes** BGS Reference: Sj89ne2429 Drilled Length (m): Not Supplied Borehole Name: Weir Pumps Additional Works Nov 2004 Tp T	A12NW (NE)	858	3	387383 399779
478	**BGS Boreholes** BGS Reference: Sj89ne2430 Drilled Length (m): Not Supplied Borehole Name: Weir Pumps Additional Works Nov 2004 Tp U	A12NW (NE)	873	3	387395 399787

BGS Boreholes Detail

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
478	**BGS Boreholes** BGS Reference: Sj89ne2431 Drilled Length (m): Not Supplied Borehole Name: Weir Pumps Additional Works Nov 2004 Tp V	A12NW (NE)	886	3	387406 399794
478	**BGS Boreholes** BGS Reference: Sj89ne2432 Drilled Length (m): Not Supplied Borehole Name: Weir Pumps Additional Works Nov 2004 Tp W	A12NW (NE)	886	3	387398 399805
479	**BGS Boreholes** BGS Reference: Sj89ne1043 Drilled Length (m): Not Supplied Borehole Name: Every Street Thu	A1NE (SW)	863	3	385920 398340
479	**BGS Boreholes** BGS Reference: Sj89ne1024 Drilled Length (m): Not Supplied Borehole Name: Every Street 3	A1NE (SW)	869	3	385900 398350
479	**BGS Boreholes** BGS Reference: Sj89ne1298 Drilled Length (m): Not Supplied Borehole Name: Every Street 6	A1NE (SW)	875	3	385880 398360
479	**BGS Boreholes** BGS Reference: Sj89ne991 Drilled Length (m): Not Supplied Borehole Name: Every Street Sewer Replacement Tp6	A1NE (SW)	882	3	385880 398350
479	**BGS Boreholes** BGS Reference: Sj89ne992 Drilled Length (m): Not Supplied Borehole Name: Every Street Sewer Replacement 6a	A1NE (SW)	896	3	385870 398340
479	**BGS Boreholes** BGS Reference: Sj89ne1044 Drilled Length (m): Not Supplied Borehole Name: Every Street Thv	A1NE (SW)	897	3	385880 398330
480	**BGS Boreholes** BGS Reference: Sj89ne68 Drilled Length (m): 9.45 Borehole Name: Manchester Corp. Russel Street	A1NE (SW)	865	3	385881 398373
481	**BGS Boreholes** BGS Reference: Sd80se814 Drilled Length (m): Not Supplied Borehole Name: Newton Heath Manchester Tp3	A14SE (N)	868	3	386500 400130
481	**BGS Boreholes** BGS Reference: Sd80se813 Drilled Length (m): Not Supplied Borehole Name: Newton Heath Manchester Tp2	A14SE (N)	885	3	386460 400140
481	**BGS Boreholes** BGS Reference: Sd80se1475 Drilled Length (m): Not Supplied Borehole Name: Oldham Road/Monsall Road Manchester Tp7	A14NE (N)	895	3	386460 400150
481	**BGS Boreholes** BGS Reference: Sd80se1474 Drilled Length (m): Not Supplied Borehole Name: Oldham Road/Monsall Road Manchester Tp6	A14NE (N)	897	3	386500 400160
481	**BGS Boreholes** BGS Reference: Sd80se808 Drilled Length (m): Not Supplied Borehole Name: Newton Heath Manchester 5	A14NE (N)	906	3	386510 400170
481	**BGS Boreholes** BGS Reference: Sd80se1468 Drilled Length (m): Not Supplied Borehole Name: Oldham Road/Monsall Road Manchester 4	A14NE (N)	912	3	386470 400170
482	**BGS Boreholes** BGS Reference: Sj89ne1751 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plots 56 & 57 Th4/56	A8SW (SE)	877	3	387480 398710

BGS Boreholes Detail

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
482	**BGS Boreholes** BGS Reference: Sj89ne1745 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plots 56 & 57 Bh4/56	A8SW (SE)	894	3	387470 398660
482	**BGS Boreholes** BGS Reference: Sj89ne1752 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plots 56 & 57 Th5/56	A8SW (SE)	894	3	387510 398730
482	**BGS Boreholes** BGS Reference: Sj89ne1750 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plots 56 & 57 Th3/56	A8SW (SE)	896	3	387490 398690
482	**BGS Boreholes** BGS Reference: Sj89ne1740 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plots 56 & 57 Bhr1/56	A8SW (SE)	897	3	387480 398670
482	**BGS Boreholes** BGS Reference: Sj89ne1749 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plots 56 & 57 Th2/56	A8SW (SE)	926	3	387530 398700
483	**BGS Boreholes** BGS Reference: Sj89ne220 Drilled Length (m): 65 Borehole Name: Eastlands Plot 57bhr1/57	A8NW (E)	879	3	387530 398810
484	**BGS Boreholes** BGS Reference: Sj89ne532 Drilled Length (m): 5 Borehole Name: Grey Mare Lane - Bradford - Manchester 1	A3NE (S)	879	3	386970 398230
484	**BGS Boreholes** BGS Reference: Sj89ne533 Drilled Length (m): 5 Borehole Name: Grey Mare Lane - Bradford - Manchester 2	A3NE (S)	879	3	386970 398230
484	**BGS Boreholes** BGS Reference: Sj89ne2350 Drilled Length (m): 5 Borehole Name: Grey Mare Service Station, Bradford, Manchester. Bh2	A3NE (SE)	901	3	386986 398213
484	**BGS Boreholes** BGS Reference: Sj89ne2349 Drilled Length (m): 5 Borehole Name: Grey Mare Service Station, Bradford, Manchester. Bh1	A3NE (S)	908	3	386974 398198
485	**BGS Boreholes** BGS Reference: Sj89ne2424 Drilled Length (m): Not Supplied Borehole Name: Weir Pumps Additional Works Nov 2004 Tt N	A16SW (NE)	882	3	387361 399841
485	**BGS Boreholes** BGS Reference: Sj89ne2435 Drilled Length (m): Not Supplied Borehole Name: Weir Pumps Additional Works Nov 2004 Tp Z	A16SW (NE)	889	3	387392 399816
485	**BGS Boreholes** BGS Reference: Sj89ne2433 Drilled Length (m): Not Supplied Borehole Name: Weir Pumps Additional Works Nov 2004 Tp X	A16SW (NE)	890	3	387383 399828
485	**BGS Boreholes** BGS Reference: Sj89ne2423 Drilled Length (m): Not Supplied Borehole Name: Weir Pumps Additional Works Nov 2004 Tt M	A16SW (NE)	895	3	387365 399856
486	**BGS Boreholes** BGS Reference: Sj89ne2391 Drilled Length (m): 8.5 Borehole Name: Every Street, Ancoats 3.	A1NE (SW)	884	3	385927 398308
486	**BGS Boreholes** BGS Reference: Sj89ne69 Drilled Length (m): 7.16 Borehole Name: Manchester Corp. Russel Street	A1NE (SW)	901	3	385913 398297

BGS Boreholes Detail

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
487	**BGS Boreholes** BGS Reference: Sd80se804 Drilled Length (m): Not Supplied Borehole Name: Newton Heath Manchester 1	A14SE (N)	887	3	386410 400130
487	**BGS Boreholes** BGS Reference: Sd80se805 Drilled Length (m): Not Supplied Borehole Name: Newton Heath Manchester 2	A14NE (N)	919	3	386440 400170
487	**BGS Boreholes** BGS Reference: Sd80se1476 Drilled Length (m): Not Supplied Borehole Name: Oldham Road/Monsall Road Manchester Tp8	A14NE (N)	919	3	386440 400170
487	**BGS Boreholes** BGS Reference: Sd80se812 Drilled Length (m): Not Supplied Borehole Name: Newton Heath Manchester Tp1	A14NE (N)	921	3	386430 400170
487	**BGS Boreholes** BGS Reference: Sd80se1478 Drilled Length (m): Not Supplied Borehole Name: Oldham Road/Monsall Road Manchester Tp10	A14NE (N)	921	3	386390 400160
488	**BGS Boreholes** BGS Reference: Sj89ne1990 Drilled Length (m): Not Supplied Borehole Name: Manchester Metro Phase 3 Extension To Commonwealth Wealth Games Stadium Tp J12	A3NE (SE)	892	3	387220 398390
488	**BGS Boreholes** BGS Reference: Sj89ne2179 Drilled Length (m): Not Supplied Borehole Name: Manchester Metrolink-Additional Works Bha3	A3NE (SE)	902	3	387250 398400
488	**BGS Boreholes** BGS Reference: Sj89ne1989 Drilled Length (m): Not Supplied Borehole Name: Manchester Metro Phase 3 Extension To Commonwealth Wealth Games Stadium Tp J11	A3NE (SE)	908	3	387260 398400
488	**BGS Boreholes** BGS Reference: Sj89ne1988 Drilled Length (m): Not Supplied Borehole Name: Manchester Metro Phase 3 Extension To Commonwealth Wealth Games Stadium Tp J10	A3NE (SE)	913	3	387280 398410
488	**BGS Boreholes** BGS Reference: Sj89ne2180 Drilled Length (m): Not Supplied Borehole Name: Manchester Metrolink-Additional Works Bha4	A3NE (SE)	913	3	387280 398410
489	**BGS Boreholes** BGS Reference: Sj89ne13 Drilled Length (m): 8.69 Borehole Name: Manchester Corp. Off Oldham Road	A9NE (NW)	898	3	385821 399663
490	**BGS Boreholes** BGS Reference: Sj89ne990 Drilled Length (m): Not Supplied Borehole Name: Every Street Sewer Replacement 5	A1NE (SW)	902	3	385920 398290
490	**BGS Boreholes** BGS Reference: Sj89ne1040 Drilled Length (m): Not Supplied Borehole Name: Every Street Thr	A1NE (SW)	910	3	385920 398280
491	**BGS Boreholes** BGS Reference: Sj89ne1742 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plots 56 & 57 Bh1/56	A8SW (E)	903	3	387530 398750
491	**BGS Boreholes** BGS Reference: Sj89ne1748 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plots 56 & 57 Th1/56	A8SW (SE)	948	3	387560 398710
492	**BGS Boreholes** BGS Reference: Sj89ne27 Drilled Length (m): 10.67 Borehole Name: Manchester Corp. Palmerstone Street	A2NW (SW)	904	3	386056 398200

BGS Boreholes Detail

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
493	**BGS Boreholes** BGS Reference: Sj89ne1 Drilled Length (m): 7.32 Borehole Name: Manchester Corp. Woodward Street Ancoats	A5NW (W)	905	3	385577 398891
494	**BGS Boreholes** BGS Reference: Sj89ne2392 Drilled Length (m): 9 Borehole Name: Every Street, Ancoats 4.	A2NW (SW)	905	3	385961 398257
495	**BGS Boreholes** BGS Reference: Sj89ne219 Drilled Length (m): 45 Borehole Name: Eastlands R1/56	A8SW (SE)	906	3	387490 398670
496	**BGS Boreholes** BGS Reference: Sj89ne1026 Drilled Length (m): Not Supplied Borehole Name: Every Street 5	A1NE (SW)	907	3	385900 398300
496	**BGS Boreholes** BGS Reference: Sj89ne1045 Drilled Length (m): Not Supplied Borehole Name: Every Street Thw	A1NE (SW)	933	3	385860 398300
496	**BGS Boreholes** BGS Reference: Sj89ne1038 Drilled Length (m): Not Supplied Borehole Name: Every Street Thp	A1NE (SW)	937	3	385890 398270
496	**BGS Boreholes** BGS Reference: Sj89ne1039 Drilled Length (m): Not Supplied Borehole Name: Every Street Thq	A1NE (SW)	938	3	385900 398260
496	**BGS Boreholes** BGS Reference: Sj89ne1037 Drilled Length (m): Not Supplied Borehole Name: Every Street Thn	A1NE (SW)	957	3	385870 398260
496	**BGS Boreholes** BGS Reference: Sj89ne1025 Drilled Length (m): Not Supplied Borehole Name: Every Street 4	A1NE (SW)	968	3	385890 398230
496	**BGS Boreholes** BGS Reference: Sj89ne1036 Drilled Length (m): Not Supplied Borehole Name: Every Street Thm	A1NE (SW)	973	3	385870 398240
496	**BGS Boreholes** BGS Reference: Sj89ne1023 Drilled Length (m): Not Supplied Borehole Name: Every Street 2	A1NE (SW)	983	3	385830 398260
496	**BGS Boreholes** BGS Reference: Sj89ne1033 Drilled Length (m): Not Supplied Borehole Name: Every Street Thj	A1NE (SW)	985	3	385850 398240
496	**BGS Boreholes** BGS Reference: Sj89ne1034 Drilled Length (m): Not Supplied Borehole Name: Every Street Thk	A1NE (SW)	994	3	385860 398220
497	**BGS Boreholes** BGS Reference: Sd80se1479 Drilled Length (m): Not Supplied Borehole Name: Oldham Road/Monsall Road Manchester Tp11	A14NE (N)	908	3	386580 400180
497	**BGS Boreholes** BGS Reference: Sd80se1469 Drilled Length (m): Not Supplied Borehole Name: Oldham Road/Monsall Road Manchester Tp1	A14NE (N)	911	3	386550 400180
497	**BGS Boreholes** BGS Reference: Sd80se1465 Drilled Length (m): Not Supplied Borehole Name: Oldham Road/Monsall Road Manchester 1	A14NE (N)	914	3	386520 400180

BGS Boreholes Detail

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
497	**BGS Boreholes** BGS Reference: Sd80se815 Drilled Length (m): Not Supplied Borehole Name: Newton Heath Manchester Tp4	A14NE (N)	919	3	386570 400190
498	**BGS Boreholes** BGS Reference: Sj89ne171 Drilled Length (m): 45.11 Borehole Name: Butler Street Development 1	A5NW (W)	914	3	385570 399130
499	**BGS Boreholes** BGS Reference: Sj89ne2210 Drilled Length (m): Not Supplied Borehole Name: Beswick Housing Regeneration Tp F6/1	A3SW (S)	923	3	386613 398069
500	**BGS Boreholes** BGS Reference: Sd80se809 Drilled Length (m): Not Supplied Borehole Name: Newton Heath Manchester 6	A14NE (N)	927	3	386600 400200
500	**BGS Boreholes** BGS Reference: Sd80se819 Drilled Length (m): Not Supplied Borehole Name: Newton Heath Manchester Tp8	A15NW (N)	936	3	386610 400210
500	**BGS Boreholes** BGS Reference: Sd80se810 Drilled Length (m): Not Supplied Borehole Name: Newton Heath Manchester 7	A15NW (N)	946	3	386640 400220
500	**BGS Boreholes** BGS Reference: Sd80se817 Drilled Length (m): Not Supplied Borehole Name: Newton Heath Manchester Tp6	A15NW (N)	967	3	386680 400240
501	**BGS Boreholes** BGS Reference: Sj89ne1974 Drilled Length (m): Not Supplied Borehole Name: Manchester Metro Phase 3 Extension To Commonwealth Wealth Games Stadium Tp D1	A1NE (SW)	928	3	385760 398410
502	**BGS Boreholes** BGS Reference: Sd80se1473 Drilled Length (m): Not Supplied Borehole Name: Oldham Road/Monsall Road Manchester Tp5	A14NE (N)	930	3	386480 400190
502	**BGS Boreholes** BGS Reference: Sd80se1467 Drilled Length (m): Not Supplied Borehole Name: Oldham Road/Monsall Road Manchester 3	A14NE (N)	936	3	386450 400190
502	**BGS Boreholes** BGS Reference: Sd80se806 Drilled Length (m): Not Supplied Borehole Name: Newton Heath Manchester 3	A14NE (N)	937	3	386500 400200
502	**BGS Boreholes** BGS Reference: Sd80se1477 Drilled Length (m): Not Supplied Borehole Name: Oldham Road/Monsall Road Manchester Tp9	A14NE (N)	952	3	386420 400200
502	**BGS Boreholes** BGS Reference: Sd80se1466 Drilled Length (m): Not Supplied Borehole Name: Oldham Road/Monsall Road Manchester 2	A14NE (N)	957	3	386500 400220
502	**BGS Boreholes** BGS Reference: Sd80se816 Drilled Length (m): Not Supplied Borehole Name: Newton Heath Manchester Tp5	A14NE (N)	965	3	386510 400230
502	**BGS Boreholes** BGS Reference: Sd80se1472 Drilled Length (m): Not Supplied Borehole Name: Oldham Road/Monsall Road Manchester Tp4	A14NE (N)	973	3	386460 400230
502	**BGS Boreholes** BGS Reference: Sd80se1471 Drilled Length (m): Not Supplied Borehole Name: Oldham Road/Monsall Road Manchester Tp3	A14NE (N)	986	3	386500 400250

BGS Boreholes Detail

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
503	**BGS Boreholes** BGS Reference: Sj89ne1986 Drilled Length (m): Not Supplied Borehole Name: Manchester Metro Phase 3 Extension To Commonwealth Wealth Games Stadium Tp J8	A4NW (SE)	931	3	387340 398440
503	**BGS Boreholes** BGS Reference: Sj89ne2025 Drilled Length (m): Not Supplied Borehole Name: Manchester Metro Phase 3 Extension To Commonwealth Wealth Games Stadium Bhj5	A4NW (SE)	939	3	387340 398430
503	**BGS Boreholes** BGS Reference: Sj89ne2182 Drilled Length (m): Not Supplied Borehole Name: Manchester Metrolink-Additional Works Bha6a	A4NW (SE)	939	3	387330 398420
503	**BGS Boreholes** BGS Reference: Sj89ne1985 Drilled Length (m): Not Supplied Borehole Name: Manchester Metro Phase 3 Extension To Commonwealth Wealth Games Stadium Tp J7	A4NW (SE)	945	3	387360 398440
503	**BGS Boreholes** BGS Reference: Sj89ne1984 Drilled Length (m): Not Supplied Borehole Name: Manchester Metro Phase 3 Extension To Commonwealth Wealth Games Stadium Tp J6	A4NW (SE)	953	3	387370 398440
504	**BGS Boreholes** BGS Reference: Sj89ne1987 Drilled Length (m): Not Supplied Borehole Name: Manchester Metro Phase 3 Extension To Commonwealth Wealth Games Stadium Tp J9`	A4NW (SE)	933	3	387310 398410
504	**BGS Boreholes** BGS Reference: Sj89ne2181 Drilled Length (m): Not Supplied Borehole Name: Manchester Metrolink-Additional Works Bha5	A4NW (SE)	933	3	387310 398410
505	**BGS Boreholes** BGS Reference: Sj89ne956 Drilled Length (m): 8.5 Borehole Name: Briscoe Lane Stage Iii 1	A16SW (NE)	938	3	387460 399810
506	**BGS Boreholes** BGS Reference: Sd80se1480 Drilled Length (m): Not Supplied Borehole Name: Oldham Road/Monsall Road Manchester Tp12	A14NE (N)	940	3	386560 400210
506	**BGS Boreholes** BGS Reference: Sd80se1470 Drilled Length (m): Not Supplied Borehole Name: Oldham Road/Monsall Road Manchester Tp2	A14NE (N)	944	3	386520 400210
506	**BGS Boreholes** BGS Reference: Sd80se1481 Drilled Length (m): Not Supplied Borehole Name: Oldham Road/Monsall Road Manchester Tp13	A14NE (N)	981	3	386540 400250
506	**BGS Boreholes** BGS Reference: Sd80se807 Drilled Length (m): Not Supplied Borehole Name: Newton Heath Manchester 4	A14NE (N)	999	3	386570 400270
507	**BGS Boreholes** BGS Reference: Sj89ne2116 Drilled Length (m): Not Supplied Borehole Name: Beswick Housing Regeneration Wspe5/2	A2SE (S)	941	3	386546 398047
508	**BGS Boreholes** BGS Reference: Sj89ne1744 Drilled Length (m): Not Supplied Borehole Name: Eastlands Plots 56 & 57 Bh3/56	A8SW (SE)	952	3	387560 398700
509	**BGS Boreholes** BGS Reference: Sj89ne2091 Drilled Length (m): Not Supplied Borehole Name: Beswick Housing Regeneration D5/3	A2SE (S)	952	3	386462 398038

BGS Boreholes Detail

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
510	**BGS Boreholes** BGS Reference: Sj89ne84 Drilled Length (m): 21.64 Borehole Name: Manchester Corp. Mill Street	A3NE (SE)	956	3	387198 398298
511	**BGS Boreholes** BGS Reference: Sj89ne32 Drilled Length (m): 7.32 Borehole Name: Manchester Corp. Corner Of Kirk St & Junction St	A1NE (SW)	958	3	385877 398253
511	**BGS Boreholes** BGS Reference: Sj89ne2390 Drilled Length (m): 6.5 Borehole Name: Every Street, Ancoats 2.	A1NE (SW)	959	3	385891 398241
512	**BGS Boreholes** BGS Reference: Sj89ne1297 Drilled Length (m): Not Supplied Borehole Name: Every Street 5	A1NE (SW)	960	3	385820 398300
513	**BGS Boreholes** BGS Reference: Sj89ne14 Drilled Length (m): 7.62 Borehole Name: Manchester Corp. Off Oldham Road	A9NE (NW)	963	3	385789 399734
514	**BGS Boreholes** BGS Reference: Sj89ne2108 Drilled Length (m): Not Supplied Borehole Name: Beswick Housing Regeneration G5/1	A3SW (S)	963	3	386719 398044
515	**BGS Boreholes** BGS Reference: Sj89ne2270 Drilled Length (m): Not Supplied Borehole Name: Beswick Housing Regeneration Additional Works 6	A2SE (S)	964	3	386440 398027
515	**BGS Boreholes** BGS Reference: Sj89ne2112 Drilled Length (m): Not Supplied Borehole Name: Beswick Housing Regeneration Wspd5/1	A2SE (S)	998	3	386436 397993
516	**BGS Boreholes** BGS Reference: Sj89ne26 Drilled Length (m): 8.23 Borehole Name: Manchester Corp. Palmerstone Street	A2NW (SW)	970	3	385995 398159
517	**BGS Boreholes** BGS Reference: Sj89ne15 Drilled Length (m): 23.47 Borehole Name: Manchester Corp. Off Oldham Road	A9NE (NW)	971	3	385805 399770
518	**BGS Boreholes** BGS Reference: Sj89ne2184 Drilled Length (m): Not Supplied Borehole Name: Manchester Metrolink-Additional Works Bha8	A8SW (SE)	977	3	387440 398480
518	**BGS Boreholes** BGS Reference: Sj89ne2183 Drilled Length (m): Not Supplied Borehole Name: Manchester Metrolink-Additional Works Bha7	A8SW (SE)	990	3	387440 398460
519	**BGS Boreholes** BGS Reference: Sj89ne2018 Drilled Length (m): Not Supplied Borehole Name: Manchester Metro Phase 3 Extension To Commonwealth Wealth Games Stadium Bhd1	A1NE (SW)	979	3	385710 398390
520	**BGS Boreholes** BGS Reference: Sj89ne104 Drilled Length (m): 60.96 Borehole Name: Hugh Stevenson & Sons Ltd, Pollard Street	A1NE (SW)	997	3	385700 398374
521	**BGS Boreholes** BGS Reference: Sj89ne2115 Drilled Length (m): Not Supplied Borehole Name: Beswick Housing Regeneration Wspe5/1	A2SE (S)	997	3	386521 397990
522	**BGS Boreholes** BGS Reference: Sj89ne1035 Drilled Length (m): Not Supplied Borehole Name: Every Street Thl	A1NE (SW)	998	3	385880 398200

BGS Boreholes Detail

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
523	**BGS Boreholes** BGS Reference: Sd80se818 Drilled Length (m): Not Supplied Borehole Name: Newton Heath Manchester Tp7	A15NW (N)	1000	3	386730 400270

Data Currency and Contact Details

BGS Boreholes	Version	Update Cycle
BGS Boreholes British Geological Survey - National Geoscience Information Service	April 2012	Quarterly

Contact Details	Contact Logo
3 **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	 British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL
- **Landmark Information Group Limited** The Smith Centre, Henley On Thames, Oxfordshire, RG9 6AB Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk	

Envirocheck® Report:

Datasheet

Order Details:

Order Number:
39314891_1_1

Customer Reference:
A074754-28

National Grid Reference:
386600, 399130

Slice:
A

Site Area (Ha):
2.38

Search Buffer (m):
1000

Site Details:

Site at 386580, 399170

Client Details:

Mr C Grose
WYG Environment Planning Transport Ltd
Arndale Court
Headingley
Leeds
LS6 2UJ

Prepared For:

Gasholder Compound
Bradford Road
Greater Manchester

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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

Summary

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Agency & Hydrological					
Contaminated Land Register Entries and Notices					
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Enforcement and Prohibition Notices					
Integrated Pollution Controls	pg 11			2	16
Integrated Pollution Prevention And Control	pg 14			1	2
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls	pg 14		1	6	13
Local Authority Pollution Prevention and Control Enforcements	pg 17				1
Nearest Surface Water Feature	pg 17		Yes		
Pollution Incidents to Controlled Waters	pg 17		1	1	7
Prosecutions Relating to Authorised Processes					
Prosecutions Relating to Controlled Waters					
Registered Radioactive Substances					
River Quality	pg 19			3	
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points	pg 20			2	
Substantiated Pollution Incident Register	pg 21				3
Water Abstractions	pg 22		1	2	4 (*22)
Water Industry Act Referrals					
Groundwater Vulnerability	pg 29	Yes	n/a	n/a	n/a
Bedrock Aquifer Designations	pg 29	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 29	Yes	n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences	pg 29		Yes	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
Waste					
BGS Recorded Landfill Sites	pg 30				1
Historical Landfill Sites	pg 30	1	2		2
Integrated Pollution Control Registered Waste Sites	pg 31				1
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)	pg 31			4	8
Local Authority Recorded Landfill Sites					
Registered Landfill Sites	pg 34		2		
Registered Waste Transfer Sites	pg 35			2	4
Registered Waste Treatment or Disposal Sites	pg 38			3	4

Summary

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Control of Major Accident Hazards Sites (COMAH)	pg 43	1	1	1	1
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)	pg 43	1			
Planning Hazardous Substance Consents	pg 43	2	1		
Planning Hazardous Substance Enforcements					
Geological					
BGS 1:625,000 Solid Geology	pg 44	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 44	Yes	Yes	Yes	Yes
BGS Recorded Mineral Sites	pg 52		1	1	3
BGS Urban Soil Chemistry	pg 53		Yes	Yes	Yes
BGS Urban Soil Chemistry Averages	pg 56	Yes			
Brine Compensation Area			n/a	n/a	n/a
Coal Mining Affected Areas	pg 56	Yes	n/a	n/a	n/a
Mining Instability	pg 56	Yes	n/a	n/a	n/a
Man-Made Mining Cavities	pg 56				1
Natural Cavities					
Non Coal Mining Areas of Great Britain				n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 57	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards				n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 57	Yes		n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 57	Yes		n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 57	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 58		6	55	142
Fuel Station Entries	pg 75				2

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
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Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves	pg 76				1
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones	pg 76				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	**Discharge Consents** Operator: United Utilities Water Plc Property Type: Sewage Disposal Works - Water Company Location: Mill St/Forge Lane, Manchester, Greater Manchester Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 01man0099 Permit Version: 1 Effective Date: 1st January 1995 Issued Date: Not Supplied Revocation Date: 26th August 1999 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: River Medlock **Status: Post National Rivers Authority Legislation where issue date > 31/08/1989** Positional Accuracy: Located by supplier to within 100m	A7NW (E)	129	1	386830 399080
1	**Discharge Consents** Operator: United Utilities Water Plc Property Type: Sewage Disposal Works - Water Company Location: Mill St @ -Park Inn-, Manchester, Greater Manchester Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 01man0100 Permit Version: 1 Effective Date: 1st January 1995 Issued Date: Not Supplied Revocation Date: 18th July 1995 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: River Medlock **Status: Authorisation revokedRevoked** Positional Accuracy: Located by supplier to within 100m	A7NW (E)	152	1	386850 399070
2	**Discharge Consents** Operator: United Utilities Water Plc Property Type: Sewage Disposal Works - Water Company Location: Bradford Rd Gas Works Opposite Elm Street, Bradford, Manchester, Greater Manchester Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 016982626 Permit Version: 1 Effective Date: 30th September 1994 Issued Date: Not Supplied Revocation Date: 2nd October 1998 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: River Medlock **Status: Consent revoked: Discharge ceased (Water Resources Act 1991, Schedule 10 & 6)** Positional Accuracy: Manually corrected supplier location	A7NW (S)	170	1	386670 398900
2	**Discharge Consents** Operator: United Utilities Water Plc Property Type: Sewage Disposal Works - Water Company Location: Bradford Rd Gas Works Opposite Elm Street, Bradford, Manchester, Greater Manchester Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 01MAN0299 Permit Version: 1 Effective Date: 1st January 1995 Issued Date: Not Supplied Revocation Date: 30th September 1994 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: River Medlock **Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 100m	A7NW (S)	170	1	386670 398900

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
3	**Discharge Consents** Operator: United Utilities Water Plc Property Type: Sewerage Network - Sewers - Water Company Location: Hulme Hall Lane Opp Falmo, Manchester, Greater Manchester Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 01MAN0260 Permit Version: 1 Effective Date: 1st January 1995 Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: Shooters Brook **Status: Post National Rivers Authority Legislation where issue date > 31/08/1989** Positional Accuracy: Located by supplier to within 100m	A10SE (N)	191	1	386520 399420
4	**Discharge Consents** Operator: United Utilities Water Plc Property Type: Sewerage Network - Sewers - Water Company Location: Lord North/Clifton St, Manchester, Greater Manchester Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 01man0069 Permit Version: 3 Effective Date: 3rd September 2010 Issued Date: 3rd September 2010 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: Shooters Brook **Status: Varied under EPR 2010** Positional Accuracy: Located by supplier to within 10m	A11NW (N)	387	1	386620 399660
4	**Discharge Consents** Operator: United Utilities Water Plc Property Type: Sewerage Network - Sewers - Water Company Location: Lord North/Clifton St, Manchester, Greater Manchester Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 01man0069 Permit Version: 2 Effective Date: 14th April 2009 Issued Date: 14th April 2009 Revocation Date: 2nd September 2010 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: Shooters Brook **Status: Post National Rivers Authority Legislation where issue date > 31/08/1989** Positional Accuracy: Located by supplier to within 10m	A11NW (N)	387	1	386620 399660
4	**Discharge Consents** Operator: United Utilities Water Plc Property Type: Sewerage Network - Sewers - Water Company Location: Lord North/Clifton St, Manchester, Greater Manchester Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 01MAN0069 Permit Version: 1 Effective Date: 1st January 1995 Issued Date: Not Supplied Revocation Date: 13th April 2009 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: Shooters Brook **Status: Post National Rivers Authority Legislation where issue date > 31/08/1989** Positional Accuracy: Located by supplier to within 100m	A11NW (N)	387	1	386620 399660

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
5	**Discharge Consents** Operator: United Utilities Water Plc Property Type: Sewerage Network - Sewers - Water Company Location: Mill Street, Bradford, Manchester, Greater Manchester Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 01MAN0320 Permit Version: 1 Effective Date: 1st January 1995 Issued Date: Not Supplied Revocation Date: 1st January 1995 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: River Medlock **Status: Consent revoked or revised: New Consent issued (Section 37(1))** Positional Accuracy: Located by supplier to within 100m	A6SW (SW)	517	1	386190 398570
5	**Discharge Consents** Operator: United Utilities Water Plc Property Type: Sewerage Network - Sewers - Water Company Location: Mill Street, Bradford, Manchester, Greater Manchester Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 016982733 Permit Version: 1 Effective Date: 30th September 1994 Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: River Medlock **Status: Post National Rivers Authority Legislation where issue date > 31/08/1989** Positional Accuracy: Located by supplier to within 100m	A6SW (SW)	521	1	386190 398565
6	**Discharge Consents** Operator: United Utilities Water Plc Property Type: Sewerage Network - Sewers - Water Company Location: Off Hillkirk Street Cso, Bradford, Manchester, Greater Manchester Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 016982726 Permit Version: 2 Effective Date: 31st August 1999 Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: River Medlock **Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 100m	A6SW (SW)	598	1	386150 398500
6	**Discharge Consents** Operator: United Utilities Water Plc Property Type: Sewage Disposal Works - Water Company Location: Philip Park Rd, Rusholm, Manchester, Greater Manchester Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 01MAN0298 Permit Version: 1 Effective Date: 1st January 1995 Issued Date: Not Supplied Revocation Date: 31st August 1999 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: River Medlock **Status: Consent revoked or revised: New Consent issued (Section 37(1))** Positional Accuracy: Located by supplier to within 100m	A6SW (SW)	611	1	386140 398490

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
6	**Discharge Consents** Operator: United Utilities Water Plc Property Type: Sewage Disposal Works - Water Company Location: Philip Park Rd, Rusholm, Manchester, Greater Manchester Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 016982726 Permit Version: 1 Effective Date: 30th September 1994 Issued Date: Not Supplied Revocation Date: 30th August 1999 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: River Medlock **Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Manually corrected supplier location	A6SW (SW)	612	1	386139 398490
7	**Discharge Consents** Operator: Csa Industries Ltd Property Type: Sewage Disposal Works - Other Location: Roadway Swo Rear Building Unit 1, Holt Town, Ancoats, Greater Manchester Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 016991184 Permit Version: 1 Effective Date: 1st November 1994 Issued Date: Not Supplied Revocation Date: 1st November 1994 Discharge Type: Discharge Of Other Matter-Surface Water Discharge Environment: Freshwater Stream/River Receiving Water: River Medlock **Status: Authorisation revokedRevoked** Positional Accuracy: Located by supplier to within 100m	A6SW (SW)	626	1	386100 398500
7	**Discharge Consents** Operator: United Utilities Water Plc Property Type: Sewerage Network - Sewers - Water Company Location: Agar St, Holt Town, Manchester, Greater Manchester Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 01MAN0258 Permit Version: 1 Effective Date: 1st January 1995 Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: River Medlock **Status: Post National Rivers Authority Legislation where issue date > 31/08/1989** Positional Accuracy: Located by supplier to within 100m	A6SW (SW)	645	1	386070 398500
7	**Discharge Consents** Operator: United Utilities Water Plc Property Type: Sewage Disposal Works - Water Company Location: Ashton New Rd(M Sewer), Manchester, Greater Manchester Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 01man0195 Permit Version: 1 Effective Date: 1st January 1995 Issued Date: Not Supplied Revocation Date: 18th July 1995 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: River Medlock **Status: Authorisation revokedRevoked** Positional Accuracy: Located by supplier to within 100m	A6SW (SW)	679	1	386040 398480

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
8	**Discharge Consents** Operator: United Utilities Water Plc Property Type: Sewerage Network - Sewers - Water Company Location: Holt Town/Weston Street, Manchester, Greater Manchester Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 01MAN0373 Permit Version: 1 Effective Date: 1st January 1995 Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Unknown Receiving Water: Not Supplied **Status: Post National Rivers Authority Legislation where issue date > 31/08/1989** Positional Accuracy: Located by supplier to within 100m	A6SW (SW)	669	1	386000 398530
9	**Discharge Consents** Operator: United Utilities Water Plc Property Type: Sewage Disposal Works - Water Company Location: Ashford St/Brewin St, Manchester, Greater Manchester Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 01MAN0006 Permit Version: 2 Effective Date: 1st January 1995 Issued Date: Not Supplied Revocation Date: 31st August 1999 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Unknown Receiving Water: Unknown **Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 100m	A2NW (SW)	729	1	386110 398370
9	**Discharge Consents** Operator: United Utilities Water Plc Property Type: Sewage Disposal Works - Water Company Location: Ashford St/Brewin St, Manchester, Greater Manchester Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 01man0006 Permit Version: 1 Effective Date: 1st April 1991 Issued Date: Not Supplied Revocation Date: 31st December 1994 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Not Supplied Receiving Water: Not Supplied **Status: Authorisation revokedRevoked** Positional Accuracy: Located by supplier to within 10m	A2NW (SW)	729	1	386110 398370
10	**Discharge Consents** Operator: United Utilities Water Plc Property Type: Sewage Disposal Works - Water Company Location: Riverpark Road, Manchester, Greater Manchester Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 01MAN0337 Permit Version: 1 Effective Date: 1st January 1995 Issued Date: Not Supplied Revocation Date: 1st January 1995 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: River Medlock **Status: Consent revoked or revised: New Consent issued (Section 37(1))** Positional Accuracy: Located by supplier to within 100m	A12SW (E)	731	1	387460 399330

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
10	**Discharge Consents** Operator: United Utilities Water Plc Property Type: Sewage Disposal Works - Water Company Location: Riverpark Road, Manchester, Greater Manchester Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 016982735 Permit Version: 1 Effective Date: 30th September 1994 Issued Date: Not Supplied Revocation Date: 30th August 1999 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: River Medlock **Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Manually corrected supplier location	A12SW (E)	731	1	387460 399330
10	**Discharge Consents** Operator: United Utilities Water Plc Property Type: Sewerage Network - Sewers - Water Company Location: Briscoe Lane Cso, Philips Park, Manchester, Greater Manchester Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 016982735 Permit Version: 2 Effective Date: 31st August 1999 Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: River Medlock **Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 100m	A12SW (E)	742	1	387470 399340
10	**Discharge Consents** Operator: United Utilities Water Plc Property Type: Sewerage Network - Sewers - Water Company Location: Clayton Sso Bank Street, Urmston, Trafford, Greater Manchester Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 016940385 Permit Version: 1 Effective Date: 23rd November 1982 Issued Date: Not Supplied Revocation Date: 31st March 1998 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: River Medlock **Status: Consent revoked: Discharge ceased (Water Resources Act 1991, Schedule 10 & 6)** Positional Accuracy: Located by supplier to within 100m	A12SW (E)	749	1	387480 399320
10	**Discharge Consents** Operator: United Utilities Water Plc Property Type: Sewage Disposal Works - Water Company Location: River Park Road/Bank St, Manchester, Greater Manchester Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 01MAN0119 Permit Version: 2 Effective Date: 1st January 1995 Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Unknown Receiving Water: Not Supplied **Status: Post National Rivers Authority Legislation where issue date > 31/08/1989** Positional Accuracy: Located by supplier to within 100m	A12SW (E)	757	1	387490 399310

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
10	**Discharge Consents** Operator: United Utilities Water Plc Property Type: Sewage Disposal Works - Water Company Location: River Park Road/Bank St, Manchester, Greater Manchester Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 01man0119 Permit Version: 1 Effective Date: 1st April 1991 Issued Date: Not Supplied Revocation Date: 31st December 1994 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Not Supplied Receiving Water: Not Supplied **Status: Authorisation revokedRevoked** Positional Accuracy: Located by supplier to within 10m	A12SW (E)	757	1	387490 399310
11	**Discharge Consents** Operator: United Utilities Water Plc Property Type: Sewerage Network - Sewers - Water Company Location: Beswick St/Ashton New Rd Cso, Holt Town, Manchester, Greater Manchester Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 016982710 Permit Version: 2 Effective Date: 31st August 1999 Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: River Medlock **Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 100m	A6SW (SW)	740	1	385970 398460
12	**Discharge Consents** Operator: United Utilities Water Plc Property Type: Sewage Disposal Works - Water Company Location: Beswick St/Holt Town Bridge, Manchester, Greater Manchester Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 01MAN0256 Permit Version: 1 Effective Date: 1st January 1995 Issued Date: Not Supplied Revocation Date: 31st August 1999 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: River Medlock **Status: Consent revoked or revised: New Consent issued (Section 37(1))** Positional Accuracy: Located by supplier to within 100m	A2NW (SW)	748	1	385970 398450
12	**Discharge Consents** Operator: United Utilities Water Plc Property Type: Sewage Disposal Works - Water Company Location: Beswick St/Holt Town Bridge, Manchester, Greater Manchester Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 016982710 Permit Version: 1 Effective Date: 30th September 1994 Issued Date: Not Supplied Revocation Date: 30th August 1999 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: River Medlock **Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Manually corrected supplier location	A2NW (SW)	748	1	385970 398450

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
13	**Discharge Consents** Operator: United Utilities Water Plc Property Type: Sewerage Network - Sewers - Water Company Location: Bank Street Cso, Clayton, Greater Manchester Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 016982847 Permit Version: 2 Effective Date: 15th September 1996 Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: River Medlock **Status: Authorisation revokedRevoked** Positional Accuracy: Located by supplier to within 100m	A12SW (E)	750	1	387490 399230
13	**Discharge Consents** Operator: United Utilities Water Plc Property Type: Sewerage Network - Sewers - Water Company Location: Bank Street Cso, Clayton, Greater Manchester Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 016982847 Permit Version: 1 Effective Date: 3rd January 1995 Issued Date: Not Supplied Revocation Date: 14th September 1996 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: River Medlock **Status: Authorisation revokedRevoked** Positional Accuracy: Located by supplier to within 10m	A12SW (E)	750	1	387490 399230
14	**Discharge Consents** Operator: United Utilities Water Plc Property Type: Sewage Disposal Works - Water Company Location: Winstanley Rd Nursery, Manchester, Greater Manchester Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 01MAN0035 Permit Version: 1 Effective Date: 1st January 1995 Issued Date: Not Supplied Revocation Date: 14th November 1999 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: Newton Brook **Status: Post National Rivers Authority Legislation where issue date > 31/08/1989** Positional Accuracy: Located by supplier to within 100m	A9SE (W)	789	1	385730 399270
15	**Discharge Consents** Operator: United Utilities Water Plc Property Type: Sewerage Network - Pumping Station - Water Company Location: Royle Street, Sso, Manchester, Greater Manchester Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 01man0064 Permit Version: 1 Effective Date: 15th September 1993 Issued Date: Not Supplied Revocation Date: 15th September 1993 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Shooters Brook **Status: Authorisation revokedRevoked** Positional Accuracy: Located by supplier to within 100m	A5NE (W)	815	1	385660 399010

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
15	**Discharge Consents** Operator: United Utilities Water Plc Property Type: Sewerage Network - Pumping Station - Water Company Location: Lostock St/Royle St, Sso, Manchester, Greater Manchester Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 01man0034 Permit Version: 1 Effective Date: 15th September 1993 Issued Date: Not Supplied Revocation Date: 15th September 1993 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Shooters Brook **Status: Authorisation revokedRevoked** Positional Accuracy: Located by supplier to within 100m	A5NE (W)	826	1	385650 399040
16	**Discharge Consents** Operator: United Utilities Water Plc Property Type: Sewage Disposal Works - Water Company Location: Lewis St/Berkshire Rd, Manchester, Greater Manchester Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 01man0033 Permit Version: 1 Effective Date: 1st January 1995 Issued Date: Not Supplied Revocation Date: 14th October 1999 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: River Irk **Status: Post National Rivers Authority Legislation where issue date > 31/08/1989** Positional Accuracy: Located by supplier to within 100m	A9SE (W)	819	1	385770 399430
17	**Discharge Consents** Operator: United Utilities Water Plc Property Type: Sewerage Network - Sewers - Water Company Location: Butler St/Holland St, Manchester, Greater Manchester Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 01man0037 Permit Version: 2 Effective Date: 3rd September 2010 Issued Date: 3rd September 2010 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: River Medlock **Status: Varied under EPR 2010** Positional Accuracy: Located by supplier to within 10m	A5NW (W)	901	1	385580 398900
17	**Discharge Consents** Operator: United Utilities Water Plc Property Type: Sewerage Network - Sewers - Water Company Location: Rollesto Avenue/Butler St, Manchester, Greater Manchester Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 01man0032 Permit Version: 2 Effective Date: 3rd September 2010 Issued Date: 3rd September 2010 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: River Medlock **Status: Varied under EPR 2010** Positional Accuracy: Located by supplier to within 10m	A5NW (W)	901	1	385580 398900

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
17	**Discharge Consents** Operator: United Utilities Water Plc Property Type: Sewerage Network - Sewers - Water Company Location: Ridgeway St/Butler St, Manchester, Greater Manchester Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 01MAN0129 Permit Version: 1 Effective Date: 1st January 1995 Issued Date: Not Supplied Revocation Date: 18th October 1999 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: River Medlock **Status: Post National Rivers Authority Legislation where issue date > 31/08/1989** Positional Accuracy: Located by supplier to within 10m	A5NW (W)	901	1	385580 398900
17	**Discharge Consents** Operator: United Utilities Water Plc Property Type: Sewerage Network - Sewers - Water Company Location: Rollesto Avenue/Butler St, Manchester, Greater Manchester Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 01MAN0032 Permit Version: 1 Effective Date: 1st January 1995 Issued Date: Not Supplied Revocation Date: 2nd September 2010 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: River Medlock **Status: Post National Rivers Authority Legislation where issue date > 31/08/1989** Positional Accuracy: Located by supplier to within 10m	A5NW (W)	901	1	385580 398900
17	**Discharge Consents** Operator: United Utilities Water Plc Property Type: Sewerage Network - Sewers - Water Company Location: Butler St/Holland St, Manchester, Greater Manchester Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 01MAN0037 Permit Version: 1 Effective Date: 1st January 1995 Issued Date: Not Supplied Revocation Date: 2nd September 2010 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: River Medlock **Status: Post National Rivers Authority Legislation where issue date > 31/08/1989** Positional Accuracy: Located by supplier to within 100m	A5NW (W)	902	1	385580 398895
18	**Discharge Consents** Operator: United Utilities Water Plc Property Type: Sewerage Network - Sewers - Water Company Location: Russell St/ East Of Ragla, Manchester, Greater Manchester Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 01MAN0262 Permit Version: 1 Effective Date: 1st January 1995 Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: River Medlock **Status: Post National Rivers Authority Legislation where issue date > 31/08/1989** Positional Accuracy: Located by supplier to within 100m	A2NW (SW)	908	1	385980 398240

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
19	**Discharge Consents** Operator: United Utilities Water Plc Property Type: Sewerage Network - Sewers - Water Company Location: Work 6/Work 5 Sewer Const, Manchester, Greater Manchester Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 01MAN0321 Permit Version: 1 Effective Date: 1st January 1995 Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: River Irk **Status:** **Post National Rivers Authority Legislation where issue date > 31/08/1989** Positional Accuracy: Located by supplier to within 100m	A13SE (NW)	957	1	385910 399890
20	**Integrated Pollution Controls** Name: Degussa Ltd Location: Manox House, Coleshill Street, Manchester, Greater Manchester, M40 7aa Authority: Environment Agency, North West Region Permit Reference: BC9682 Dated: 24th November 1998 Process Type: IPC minor (non-substantial) variation to previous variation Description: 4.5 A (A) Inorganic Chemical processes within the Chemical Industry **Status:** **Authorisation revokedRevoked** Positional Accuracy: Manually positioned to the address or location	A10SW (NW)	437	1	386176 399365
20	**Integrated Pollution Controls** Name: Degussa Ltd Location: Manox House, Coleshill Street, Manchester, Greater Manchester, M40 7aa Authority: Environment Agency, North West Region Permit Reference: AO1292 Dated: 31st January 1995 Process Type: IPC new application Description: 4.5 A (A) Inorganic Chemical processes within the Chemical Industry **Status:** **Authorisation superseded by a substantial or non substantial variationSuperseded** Positional Accuracy: Manually positioned to the address or location	A10SW (NW)	437	1	386176 399365
21	**Integrated Pollution Controls** Name: Ciba Specialty Chemicals Plc Location: Ashton New Road,Clayton,, MANCHESTER, Greater Manchester, M11 4AT Authority: Environment Agency, North West Region Permit Reference: Ca3084 Dated: 13th March 2006 Process Type: IPC minor (non-substantial) variation to previous variation Description: 4.2 A (A) Manufacture and use of Organic Chemicals within the Chemical Industry **Status:** **Authorisation revokedRevoked** Positional Accuracy: Manually positioned to the road within the address or location	A3NE (SE)	917	1	387220 398359
22	**Integrated Pollution Controls** Name: Ciba Specialty Chemicals Plc Location: Ashton New Road, Clayton, Manchester, Greater Manchester, M11 4at Authority: Environment Agency, North West Region Permit Reference: Bt9062 Dated: 12th February 2003 Process Type: IPC minor (non-substantial) variation to previous variation Description: 4.2 A (A) Manufacture and use of Organic Chemicals within the Chemical Industry **Status:** **Authorisation superseded by a substantial or non substantial variationSuperseded** Positional Accuracy: Manually positioned to the road within the address or location	A4NW (SE)	939	1	387299 398392
22	**Integrated Pollution Controls** Name: Ciba Specialty Chemicals Plc Location: Ashton New Road, Clayton, Manchester, Greater Manchester, M11 4at Authority: Environment Agency, North West Region Permit Reference: Bt9054 Dated: 12th February 2003 Process Type: IPC minor (non-substantial) variation to previous variation Description: 4.2 A (A) Manufacture and use of Organic Chemicals within the Chemical Industry **Status:** **Authorisation superseded by a substantial or non substantial variationSuperseded** Positional Accuracy: Manually positioned to the road within the address or location	A4NW (SE)	939	1	387299 398392

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
22	**Integrated Pollution Controls** Name: Rhodia Ltd Location: Ashton New Road, Clayton, Manchester, Greater Manchester, M11 4at Authority: Environment Agency, North West Region Permit Reference: BD2152 Dated: 24th November 1998 Process Type: IPC minor (non-substantial) variation to previous variation Description: 4.2 A (D) Manufacture and use of Organic Chemicals within the Chemical Industry **Status: Revoked - Now IPPC** Positional Accuracy: Manually positioned to the road within the address or location	A4NW (SE)	939	1	387299 398392
22	**Integrated Pollution Controls** Name: Rhodia Ltd Location: Ashton New Road, Clayton, Manchester, Greater Manchester, M11 4at Authority: Environment Agency, North West Region Permit Reference: BD2144 Dated: 24th November 1998 Process Type: IPC minor (non-substantial) variation to previous variation Description: 4.2 A (J) Manufacture and use of Organic Chemicals within the Chemical Industry **Status: Revoked - Now IPPC** Positional Accuracy: Manually positioned to the road within the address or location	A4NW (SE)	939	1	387299 398392
22	**Integrated Pollution Controls** Name: Ciba Specialty Chemicals Plc Location: Ashton New Road, Clayton, Manchester, Greater Manchester, M11 4at Authority: Environment Agency, North West Region Permit Reference: BD1415 Dated: 24th November 1998 Process Type: IPC minor (non-substantial) variation to previous variation Description: 4.2 A (A) Manufacture and use of Organic Chemicals within the Chemical Industry **Status: Authorisation superseded by a substantial or non substantial variationSuperseded** Positional Accuracy: Manually positioned to the road within the address or location	A4NW (SE)	939	1	387299 398392
22	**Integrated Pollution Controls** Name: Ciba Specialty Chemicals Plc Location: Ashton New Road, Clayton, Manchester, Greater Manchester, M11 4at Authority: Environment Agency, North West Region Permit Reference: BD1407 Dated: 24th November 1998 Process Type: IPC minor (non-substantial) variation to previous variation Description: 4.2 A (A) Manufacture and use of Organic Chemicals within the Chemical Industry **Status: Authorisation superseded by a substantial or non substantial variationSuperseded** Positional Accuracy: Manually positioned to the road within the address or location	A4NW (SE)	939	1	387299 398392
22	**Integrated Pollution Controls** Name: Omg (Uk) Ltd Location: Ashton New Road, Clayton, Manchester, Greater Manchester, M11 4at Authority: Environment Agency, North West Region Permit Reference: BD7502 Dated: 24th November 1998 Process Type: IPC minor (non-substantial) variation to previous variation Description: 4.2 A (D) Manufacture and use of Organic Chemicals within the Chemical Industry **Status: Revoked - Now IPPC** Positional Accuracy: Manually positioned to the road within the address or location	A4NW (SE)	939	1	387299 398392
22	**Integrated Pollution Controls** Name: Omg (Uk) Ltd Location: Ashton New Road, Clayton, Manchester, Greater Manchester, M11 4at Authority: Environment Agency, North West Region Permit Reference: AX0488 Dated: 18th April 1997 Process Type: IPC minor (non-substantial) variation to previous variation Description: 4.2 A (D) Manufacture and use of Organic Chemicals within the Chemical Industry **Status: Authorisation superseded by a substantial or non substantial variationSuperseded** Positional Accuracy: Manually positioned to the road within the address or location	A4NW (SE)	939	1	387299 398392

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
22	**Integrated Pollution Controls** Name: Ciba Specialty Chemicals Plc Location: Ashton New Road, Clayton, MANCHESTER, M11 4AT Authority: Environment Agency, North West Region Permit Reference: AR1698 Dated: 3rd May 1996 Process Type: IPC minor (non-substantial) variation to previous variation Description: 4.2 A (A) Manufacture and use of Organic Chemicals within the Chemical Industry **Status: Authorisation superseded by a substantial or non substantial variationSuperseded** Positional Accuracy: Manually positioned to the road within the address or location	A4NW (SE)	939	1	387299 398392
22	**Integrated Pollution Controls** Name: Rhodia Ltd Location: Ashton New Road, Clayton, Manchester, Greater Manchester, M11 4at Authority: Environment Agency, North West Region Permit Reference: AS6209 Dated: 14th December 1995 Process Type: IPC new application Description: 4.2 A (D) Manufacture and use of Organic Chemicals within the Chemical Industry **Status: Authorisation superseded by a substantial or non substantial variationSuperseded** Positional Accuracy: Manually positioned to the road within the address or location	A4NW (SE)	939	1	387299 398392
22	**Integrated Pollution Controls** Name: Rhodia Ltd Location: Ashton New Road, Clayton, Manchester, Greater Manchester, M11 4at Authority: Environment Agency, North West Region Permit Reference: AS6195 Dated: 14th December 1995 Process Type: IPC new application Description: 4.2 A (J) Manufacture and use of Organic Chemicals within the Chemical Industry **Status: Authorisation superseded by a substantial or non substantial variationSuperseded** Positional Accuracy: Manually positioned to the road within the address or location	A4NW (SE)	939	1	387299 398392
22	**Integrated Pollution Controls** Name: Ciba Specialty Chemicals Plc Location: Ashton New Road, Clayton, MANCHESTER, M11 4AT Authority: Environment Agency, North West Region Permit Reference: AR1728 Dated: 1st August 1995 Process Type: IPC minor (non-substantial) variation to previous variation Description: 4.2 A (A) Manufacture and use of Organic Chemicals within the Chemical Industry **Status: Authorisation superseded by a substantial or non substantial variationSuperseded** Positional Accuracy: Manually positioned to the road within the address or location	A4NW (SE)	939	1	387299 398392
22	**Integrated Pollution Controls** Name: Ciba Specialty Chemicals Plc Location: Ashton New Road, Clayton, Manchester, Greater Manchester, M11 4at Authority: Environment Agency, North West Region Permit Reference: AK6063 Dated: 23rd February 1994 Process Type: IPC application for process that was regulated by HMIP for air releases under previous legislation Description: 4.2 A (A) Manufacture and use of Organic Chemicals within the Chemical Industry **Status: Authorisation superseded by a substantial or non substantial variationSuperseded** Positional Accuracy: Manually positioned to the road within the address or location	A4NW (SE)	939	1	387299 398392
22	**Integrated Pollution Controls** Name: Ciba Specialty Chemicals Plc Location: Ashton New Road, Clayton, Manchester, Greater Manchester, M11 4at Authority: Environment Agency, North West Region Permit Reference: AK6055 Dated: 23rd February 1994 Process Type: IPC application for process that was regulated by HMIP for air releases under previous legislation Description: 4.2 A (A) Manufacture and use of Organic Chemicals within the Chemical Industry **Status: Authorisation superseded by a substantial or non substantial variationSuperseded** Positional Accuracy: Manually positioned to the road within the address or location	A4NW (SE)	939	1	387299 398392

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
22	**Integrated Pollution Controls** Name: Omg (Uk) Ltd Location: Ashton New Road, Clayton, Manchester, Greater Manchester, M11 4at Authority: Environment Agency, North West Region Permit Reference: AK5334 Dated: 17th February 1994 Process Type: IPC new application Description: 4.2 A (D) Manufacture and use of Organic Chemicals within the Chemical Industry **Status: Authorisation superseded by a substantial or non substantial variationSuperseded** Positional Accuracy: Manually positioned to the road within the address or location	A4NW (SE)	939	1	387299 398392
23	**Integrated Pollution Prevention And Control** Name: Princes Ltd Location: Princes Soft Drinks Division (Uk), Lord North Street, Newton Heath,, Manchester, M40 2HJ Authority: Environment Agency, North West Region Permit Reference: Tp3832pn Original Permit Ref: Tp3832pn Effective Date: 13th October 2005 **Status: Effective** Application Type: Application App. Sub Type: New Positional Accuracy: Automatically positioned to the address Activity Code: 6.8 A(1) (D) (II) Activity Description: Animal, Vegetable & Food; Treating Etc. Vegetable Raw Materials For Food Greater Than 300T/Day Primary Activity: Y	A11NW (N)	466	1	386668 399739
24	**Integrated Pollution Prevention And Control** Name: Rhodia Uk Ltd Location: Latex Plant, Clayton, Ashton New Road, Clayton,,, MANCHESTER, Greater Manchester, M11 4AT Authority: Environment Agency, North West Region Permit Reference: Pp3131sy Original Permit Ref: Pp3131sy Effective Date: 5th July 2005 **Status: Superseded By Variation** Application Type: Transfer App. Sub Type: Whole without Fit and Proper Person Positional Accuracy: Manually positioned to the road within the address or location Activity Code: 0.0 Associated Process Activity Description: Associated Process Primary Activity: N Activity Code: 4.1 A(1) (A) (II) Activity Description: Organic Chemicals; Oxygen Containing Compounds Eg Alcohols Primary Activity: Y Activity Code: 4.1 A(1) (A) (VIII) Activity Description: Organic Chemicals; Plastic Materials Eg Polymers Primary Activity: N	A4NW (SE)	943	1	387320 398405
25	**Integrated Pollution Prevention And Control** Name: Hexion Specialty Chemicals Clayton Ltd Location: Rhodia Uk Ltd, Ashton New Road, Clayton, Manchester, Greater Manchester, M11 4AT Authority: Environment Agency, North West Region Permit Reference: UP3136LU Original Permit Ref: Up3136lu Effective Date: 1st June 2006 **Status: Superseded By Variation** Application Type: Transfer App. Sub Type: Whole without Fit and Proper Person Positional Accuracy: Manually positioned to the road within the address or location Activity Code: 0.0 Associated Process Activity Description: Associated Process Primary Activity: N Activity Code: 4.1 A(1) (A) (VIII) Activity Description: Organic Chemicals; Plastic Materials Eg Polymers Primary Activity: N Activity Code: 4.1 A(1) (A) (II) Activity Description: Organic Chemicals; Oxygen Containing Compounds Eg Alcohols Primary Activity: Y	A4NW (SE)	996	1	387434 398444
26	**Local Authority Pollution Prevention and Controls** Name: North Manchester Commercials Location: Briscoe Lane, Newton Heath, MANCHESTER, Lancashire, M40 2NL Authority: Manchester City Council, Environmental Health Department Permit Reference: PPC/78/95/03 Dated: 1st November 1995 Process Type: Local Authority Air Pollution Control Description: PG6/34 Respraying of road vehicles **Status: Authorisation revokedRevoked** Positional Accuracy: Manually positioned to the address or location	A11SW (NE)	142	2	386776 399369

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
27	**Local Authority Pollution Prevention and Controls** Name: Northern Butchers Hide Markets Ltd Location: 228 Briscoe Lane, Newton Heath, MANCHESTER, Lancashire, M40 2XG Authority: Manchester City Council, Environmental Health Department Permit Reference: PPC/52/93 Dated: 1st March 1995 Process Type: Local Authority Air Pollution Control Description: PG6/21 Hide and skin processes **Status: Authorisation revokedRevoked** Positional Accuracy: Manually positioned to the address or location	A11SW (NE)	254	2	386831 399468
28	**Local Authority Pollution Prevention and Controls** Name: J & F Brooks Location: Philips Park Road, Beswick, Manchester, Greater Manchester, M11 3ej Authority: Manchester City Council, Environmental Health Department Permit Reference: N/A Dated: 1st April 1992 Process Type: Local Authority Air Pollution Control Description: PG6/2 Manufacture of timber and wood-based products **Status: Authorisation revokedRevoked** Positional Accuracy: Located by supplier to within 10m	A6SE (S)	291	2	386496 398698
29	**Local Authority Pollution Prevention and Controls** Name: Trafford Rubber Products Location: North Manchester Sites, 55 Clifton Street, Miles Platting, Manchester, Greater Manchester, M10 8hf Authority: Manchester City Council, Environmental Health Department Permit Reference: PPC/63/93 Dated: 12th September 1994 Process Type: Local Authority Air Pollution Control Description: PG6/28 Rubber processes **Status: Authorisation revokedRevoked** Positional Accuracy: Located by supplier to within 10m	A11NW (N)	344	2	386737 399605
30	**Local Authority Pollution Prevention and Controls** Name: Forrest & Sym Ltd Location: Ashfield Street, Off Philips Park Road, Bradford, Manchester, Greater Manchester, M11 3fh Authority: Manchester City Council, Environmental Health Department Permit Reference: N/A Dated: 1st April 1993 Process Type: Local Authority Air Pollution Control Description: PG2/5 Hot and cold blast cupolas **Status: Authorisation revokedRevoked** Positional Accuracy: Manually positioned to the road within the address or location	A6SE (SW)	456	2	386361 398560
30	**Local Authority Pollution Prevention and Controls** Name: Forrest & Sym Ltd Location: Ashfield Street, Off Philips Park Road, Bradford, Manchester, Greater Manchester, M11 3fh Authority: Manchester City Council, Environmental Health Department Permit Reference: N/A Dated: 1st April 1993 Process Type: Local Authority Air Pollution Control Description: PG2/4 Iron, steel and non-ferrous metal foundry processes **Status: Permitted** Positional Accuracy: Manually positioned to the road within the address or location	A6SE (SW)	456	2	386361 398560
31	**Local Authority Pollution Prevention and Controls** Name: Asda Eastlands Location: Ashton New Road, Bradford, Manchester, Lancashire, M11 4bd Authority: Manchester City Council, Environmental Health Department Permit Reference: PPC/PFS/RM/004/06 Dated: 14th June 2002 Process Type: Local Authority Air Pollution Control Description: PG1/14 Petrol filling station **Status: Authorised** Positional Accuracy: Located by supplier to within 10m	A7SW (SE)	459	2	386914 398707
32	**Local Authority Pollution Prevention and Controls** Name: West & Musgrave Ltd Location: Edwin Road, MANCHESTER, Lancashire, M11 3ER Authority: Manchester City Council, Environmental Health Department Permit Reference: 32/92 Dated: 2nd December 1992 Process Type: Local Authority Air Pollution Control Description: PG2/4 Iron, steel and non-ferrous metal foundry processes **Status: Authorisation revokedRevoked** Positional Accuracy: Located by supplier to within 10m	A6SE (SW)	527	2	386315 398499

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
32	**Local Authority Pollution Prevention and Controls** Name: West & Musgrave Ltd Location: Edwin Road, MANCHESTER, Lancashire, M11 3ER Authority: Manchester City Council, Environmental Health Department Permit Reference: PPC/9/32/92-95 Dated: 2nd December 1992 Process Type: Local Authority Air Pollution Control Description: PG2/3 Electrical and rotary furnaces **Status: Authorisation revokedRevoked** Positional Accuracy: Located by supplier to within 10m	A6SE (SW)	527	2	386315 398499
33	**Local Authority Pollution Prevention and Controls** Name: Duo Plastics Ltd Location: Vickers Street, Manchester, Lancashire, M10 8fa Authority: Manchester City Council, Environmental Health Department Permit Reference: PPC/B/21/05/AW Dated: 21st June 1993 Process Type: Local Authority Air Pollution Control Description: PG6/17 Printing of flexible packaging **Status: Authorised** Positional Accuracy: Located by supplier to within 10m	A10NW (NW)	544	2	386171 399545
34	**Local Authority Pollution Prevention and Controls** Name: Hanson Aggregates Location: Norton Street, Miles Platting, MANCHESTER, Lancashire, M40 8HD Authority: Manchester City Council, Environmental Health Department Permit Reference: PPC/B/04/05/AW Dated: 5th August 1992 Process Type: Local Authority Air Pollution Control Description: PG3/1Blending, packing, loading and use of bulk cement **Status: Authorised** Positional Accuracy: Manually positioned to the address or location	A14SE (N)	584	2	386419 399814
35	**Local Authority Pollution Prevention and Controls** Name: Drummer Boy Trading Company Location: Bower Street, Newton Heath, Manchester, M12 6BL Authority: Manchester City Council, Environmental Health Department Permit Reference: PPC/96/97 Dated: 17th October 1997 Process Type: Local Authority Air Pollution Control Description: PG6/15 Coating in drum manufacturing and reconditioning processes **Status: Authorisation revokedRevoked** Positional Accuracy: Located by supplier to within 10m	A15SW (N)	790	2	386887 400025
36	**Local Authority Pollution Prevention and Controls** Name: Mathers Foundry Ltd Location: Park Works, Ten Acres Lane/Briscoe Lane, Newton Heath, M40 2BA Authority: Manchester City Council, Environmental Health Department Permit Reference: PPC/B/26/05/AW Dated: 15th December 1997 Process Type: Local Authority Pollution Prevention and Control Description: PG2/4 Iron, steel and non-ferrous metal foundry processes **Status: Permitted** Positional Accuracy: Manually positioned to the address or location	A15SE (NE)	847	2	386996 400044
36	**Local Authority Pollution Prevention and Controls** Name: Mathers Foundry Ltd Location: Park Works, Ten Acres Lane/Briscoe Lane, Newton Heath, M10 6ba Authority: Manchester City Council, Environmental Health Department Permit Reference: PPC/B/26/05/AW Dated: 15th December 1997 Process Type: Local Authority Pollution Prevention and Control Description: PG2/3 Electrical and rotary furnaces **Status: Permitted** Positional Accuracy: Manually positioned to the address or location	A15SE (NE)	847	2	386996 400044
37	**Local Authority Pollution Prevention and Controls** Name: Frances Shaw & Co Manchester Location: P O Box 12, Openshaw, Manchester, Lancashire, M11 4bb Authority: Manchester City Council, Environmental Health Department Permit Reference: PPC/53/93 Dated: 16th December 1993 Process Type: Local Authority Air Pollution Control Description: PG6/28 Rubber processes **Status: Authorisation revokedRevoked** Positional Accuracy: Located by supplier to within 10m	A8SW (SE)	868	2	387362 398558

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
38	**Local Authority Pollution Prevention and Controls** Name: Stormproofings Ltd Location: Corbett Street, MANCHESTER, Lancashire, M11 4BD Authority: Manchester City Council, Environmental Health Department Permit Reference: PPC/48/93 Dated: 29th October 1993 Process Type: Local Authority Air Pollution Control Description: PG6/8 Textile and fabric coating of finishing processes **Status: Authorisation revokedRevoked** Positional Accuracy: Manually positioned to the address or location	A8SW (SE)	880	2	387308 398480
39	**Local Authority Pollution Prevention and Controls** Name: Pst Concrete Fence Ltd Location: Bank Street, Clayton, Manchester, Greater Manchester, M11 4by Authority: Manchester City Council, Environmental Health Department Permit Reference: PPC/101/00 Dated: 1st December 1995 Process Type: Local Authority Air Pollution Control Description: PG3/10 China and ball clay **Status: Authorisation revokedRevoked** Positional Accuracy: Located by supplier to within 10m	A8SW (SE)	882	2	387499 398736
40	**Local Authority Pollution Prevention and Controls** Name: Tcs - Monsall Location: 571 Oldham Road, Newton Heath, MANCHESTER, Lancashire, M40 5AF Authority: Manchester City Council, Environmental Health Department Permit Reference: PPC/PFS/RM/023/06 Dated: 22nd December 1998 Process Type: Local Authority Air Pollution Control Description: PG1/14 Petrol filling station **Status: Authorised** Positional Accuracy: Automatically positioned to the address	A14NE (N)	883	2	386495 400145
41	**Local Authority Pollution Prevention and Controls** Name: Weir Pumps Location: Park Works, Newton Heath, MANCHESTER, Lancashire, M40 2BA Authority: Manchester City Council, Environmental Health Department Permit Reference: 37/93 Dated: 10th February 1993 Process Type: Local Authority Air Pollution Control Description: PG2/3 Electrical and rotary furnaces **Status: Authorised** Positional Accuracy: Manually positioned to the address or location	A15SE (NE)	887	2	387069 400057
42	**Local Authority Pollution Prevention and Controls** Name: Weir Pumps Location: Park Works, Newton Heath, Manchester, Lancashire, M40 2ba Authority: Manchester City Council, Environmental Health Department Permit Reference: 37/93 Dated: 10th February 1993 Process Type: Local Authority Pollution Prevention and Control Description: PG2/4 Iron, steel and non-ferrous metal foundry processes **Status: Permitted** Positional Accuracy: Manually positioned to the address or location	A15SE (NE)	935	2	387122 400084
43	**Local Authority Pollution Prevention and Control Enforcements** Location: Vickers Street, Manchester, Lancashire, M40 8pu Type: Air Pollution Control Enforcement Notice Reference: 42/93 Date Issued: 24th December 1996 Enforcement Date: Not Supplied Details: Empty Containers Often Stored Without Lids Positional Accuracy: Manually positioned to the road within the address or location	A10NW (NW)	521	2	386179 399519
	Nearest Surface Water Feature	A7NW (E)	128	-	386827 399076
44	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Greater Manchester Authority: Environment Agency, North West Region Pollutant: Miscellaneous - Fire water / Foam Note: None Pollution Found Incident Date: 17th April 1996 Incident Reference: 96610796 Catchment Area: Medlock Receiving Water: Not Given Cause of Incident: Fire Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A7NW (E)	12	1	386700 399100

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
45	**Pollution Incidents to Controlled Waters** Property Type: Agriculture: Manure Compound Location: M C R Abatoir, Riverpark Road Authority: Environment Agency, North West Region Pollutant: General Biodegradable : Solid Manure Note: Not Supplied Incident Date: 6th January 1999 Incident Reference: 362 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A11SE (NE)	500	1	387200 399400
46	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Greater Manchester Authority: Environment Agency, North West Region Pollutant: Rubble/Litter Or Solids Note: River Medlock; Silt Incident Date: 16th January 1996 Incident Reference: 96630091 Catchment Area: Medlock Receiving Water: Not Given Cause of Incident: In River Works Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A6SW (SW)	572	1	386200 398500
47	**Pollution Incidents to Controlled Waters** Property Type: Pollution Found Source Not Determined Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Miscellaneous - Foam Note: River Medlock Incident Date: 23rd January 1995 Incident Reference: 95630101 Catchment Area: Medlock Receiving Water: Not Given Cause of Incident: Other Incident/Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A6SW (SW)	626	1	386100 398500
48	**Pollution Incidents to Controlled Waters** Property Type: Pollution Found Source Not Determined Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Miscellaneous - Colour Note: Not Supplied Incident Date: 10th January 1995 Incident Reference: 95630037 Catchment Area: Medlock Receiving Water: Not Given Cause of Incident: Other Incident/Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A6SW (SW)	691	1	386000 398500
49	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Greater Manchester Authority: Environment Agency, North West Region Pollutant: Oils - Unknown Note: Ashton Canal; Green Based Oil Residue Incident Date: 7th April 1996 Incident Reference: 96630706 Catchment Area: Ashton Canal Receiving Water: Not Given Cause of Incident: Other Incident/Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A5SE (SW)	832	1	385700 398700
50	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Miscellaneous - Colour Note: River Medlock; Dye Incident Date: 17th January 1995 Incident Reference: 95630069 Catchment Area: Medlock Receiving Water: Not Given Cause of Incident: Other Incident/Unknown Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A2NW (SW)	932	1	386000 398200

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
51	**Pollution Incidents to Controlled Waters** Property Type: Manufacturing: Metal Fabrication Location: Nall St, Levenshulme, MANCHESTER, Greater Manchester Authority: Environment Agency, North West Region Pollutant: Organic Chemicals : Oils: Mixed / Unidentified / Waste Note: Not Supplied Incident Date: 10th May 1999 Incident Reference: 28748 Catchment Area: River Mersey (Etherow) Receiving Water: River Stretch (Freshwater) Cause of Incident: Un-Consented Works Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 10m	A12SE (E)	964	1	387700 399300
52	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Greater Manchester Authority: Environment Agency, North West Region Pollutant: Unknown Note: None Affected; None Pollution Found Incident Date: 20th September 1996 Incident Reference: 96612071 Catchment Area: Irk Receiving Water: Not Given Cause of Incident: Other Incident/Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14SW (NW)	970	1	386001 400001
	River Quality Name: Ashton Canal GQA Grade: River Quality C Reach: Robertsons To Rochdale Canal Estimated Distance (km): 6.4 Flow Rate: Flow greater than 80 cumecs Flow Type: Canal Year: 2000	A6SE (SW)	275	1	386390 398735
	River Quality Name: Medlock GQA Grade: River Quality E Reach: Lords Bk To Irwell Estimated Distance (km): 9.5 Flow Rate: Flow less than 0.31 cumecs Flow Type: River Year: 2000	A7NW (SE)	299	1	386910 398904
	River Quality Name: Rochdale Canal GQA Grade: River Quality B Reach: Qsl At Summit To Empress Processing Estimated Distance (km): 27.6 Flow Rate: Flow greater than 80 cumecs Flow Type: Canal Year: 2000	A10NE (NW)	356	1	386329 399482

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
53	**River Quality Chemistry Sampling Points** Name: Rochdale Canal Reach: Empress Processing To Ashton Canal Estimated Distance: 0.30 Objective: Not Supplied Positional Accuracy: Located by supplier to within 10m Year: 1990 GQA Grade: Not Supplied Compliance: Not Supplied Year: 1993 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1994 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1995 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1996 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1997 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1998 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1999 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2000 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2001 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2002 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2003 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2004 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2005 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2006 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2007 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2008 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2009 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied	A10NE (NW)	379	1	386363 399530

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
53	**River Quality Chemistry Sampling Points** Name: Rochdale Canal Reach: Qsl At Summit To Empress Processing Estimated Distance: 27.60 Objective: Not Supplied Positional Accuracy: Located by supplier to within 10m Year: 1990 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 1993 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1994 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1995 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1996 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1997 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1998 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1999 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2000 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2001 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2002 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2003 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2004 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2005 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2006 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2007 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2008 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2009 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied	A10NE (NW)	379	1	386363 399530
54	**Substantiated Pollution Incident Register** Authority: Environment Agency - North West Region, South Area Incident Date: 14th May 2004 Incident Reference: 237969 Water Impact: Category 4 - No Impact Air Impact: Category 3 - Minor Incident Land Impact: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 10m Pollutant: Organic Chemicals : Other Organic Wastes	A14SE (N)	719	1	386517 399982
55	**Substantiated Pollution Incident Register** Authority: Environment Agency - North West Region, South Area Incident Date: 19th March 2005 Incident Reference: 299985 Water Impact: Category 2 - Significant Incident Air Impact: Category 4 - No Impact Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Crude Sewage	A12SW (E)	760	1	387500 399223

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
56	**Substantiated Pollution Incident Register** Authority: Environment Agency - North West Region, South Area Incident Date: 25th December 2003 Incident Reference: 208157 Water Impact: Category 3 - Minor Incident Air Impact: Category 2 - Significant Incident Land Impact: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 10m Pollutant: Atmospheric Pollutants And Effects: Smoke Pollutant: Contaminated Water: Firefighting Run-Off	A12SW (E)	878	1	387592 399415
57	**Water Abstractions** Operator: V H E Construction Limited Licence Number: 2569006040 Permit Version: Not Supplied Location: The River, Medlock, MANCHESTER Authority: Environment Agency, North West Region Abstraction: Dust Suppression Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 20 Yearly Rate (m3): 2000 Details: Licence Status: Lapsed 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	A7NW (E)	94	1	386800 399100
58	**Water Abstractions** Operator: British Waterways Board Licence Number: 2569006030 Permit Version: Not Supplied Location: Location Description Not Available Authority: Environment Agency, North West Region Abstraction: Not Supplied Abstraction Type: Not Supplied Source: Canal Daily Rate (m3): 0 Yearly Rate (m3): 0 Details: Ashton Canal 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	A7NW (SE)	372	1	386900 398800
58	**Water Abstractions** Operator: British Waterways Board Licence Number: 2569006992 Permit Version: Not Supplied Location: Ashton Canal, MANCHESTER Authority: Environment Agency, North West Region Abstraction: Drinking; Cooking; Sanitary; Washing For Industrial Premises Abstraction Type: Not Supplied Source: Canal Daily Rate (m3): 0 Yearly Rate (m3): 1136500 Details: Licence Status: Revoked 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	A7NW (SE)	376	1	386900 398795
59	**Water Abstractions** Operator: Hanson Quarry Products Europe Ltd Licence Number: 2569005061 Permit Version: 2 Location: Borehole At Norton Street, Miles Platting, Manchester Authority: Environment Agency, North West Region Abstraction: Construction: 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: At Norton Street, Miles Platting Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st July 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A10NE (N)	524	1	386550 399790

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
60	**Water Abstractions** Operator: British Waterways Board Licence Number: 2569006030 Permit Version: Not Supplied Location: Manchester, MANCHESTER Authority: Environment Agency, North West Region Abstraction: Not Supplied Abstraction Type: Not Supplied Source: Canal Daily Rate (m3): 0 Yearly Rate (m3): 0 Details: Ashton Canal 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	A5NE (SW)	609	1	385900 398800
60	**Water Abstractions** Operator: British Waterways Licence Number: 2569006990 Permit Version: 100 Location: Ashton Canal, Manchester [Distillers, Ancoats] Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: General Cooling (Existing Licences Only) (Low Loss) Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): 0 Yearly Rate (m3): 750090 Details: (Lancashire Tar Distillers Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st April 1969 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A5NE (SW)	611	1	385900 398795
61	**Water Abstractions** Operator: Cochrane & Gibbs Ltd Licence Number: 2569006022 Permit Version: Not Supplied Location: Rochdale Canal, Bower Street, Newton Heath, MANCHESTER Authority: Environment Agency, North West Region Abstraction: Boiler Feed & Manufacturing Abstraction Type: Not Supplied Source: Canal Daily Rate (m3): 773 Yearly Rate (m3): 168202 Details: Additional Purpose: Boiler feed; Licence Status: Revoked 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	A15SW (N)	772	1	386901 400001
	Water Abstractions Operator: British Waterways Board Licence Number: 2569006030 Permit Version: Not Supplied Location: Manchester, MANCHESTER Authority: Environment Agency, North West Region Abstraction: Not Supplied Abstraction Type: Not Supplied Source: Canal Daily Rate (m3): 0 Yearly Rate (m3): 0 Details: Ashton Canal 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	A4NW (SE)	1152	1	387600 398400

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: British Waterways Licence Number: 2569006996 Permit Version: 100 Location: Ashton Canal, Manchester [Vitacom] Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: General Cooling (Existing Licences Only) (Low Loss) Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): 0 Yearly Rate (m3): 227300 Details: (British Vita Ltd) Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st April 1969 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A4NW (SE)	1155	1	387600 398395
	Water Abstractions Operator: British Waterways Board Licence Number: 2569006030 Permit Version: Not Supplied Location: Manchester, MANCHESTER Authority: Environment Agency, North West Region Abstraction: Not Supplied Abstraction Type: Not Supplied Source: Canal Daily Rate (m3): 0 Yearly Rate (m3): 0 Details: Ashton Canal 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	A4NE (SE)	1312	1	387800 398400
	Water Abstractions Operator: British Waterways Board Licence Number: 2569006997 Permit Version: 100 Location: Ashton Canal Manchester Clayton Analine Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): 0 Yearly Rate (m3): 3500420 Details: Land At Ciba Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st April 1969 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A4NE (SE)	1315	1	387800 398395
	Water Abstractions Operator: Air Products (Chemicals) Plc Licence Number: 2569006037 Permit Version: 101 Location: Borehole 1 On Premises At Croft Street, Clayton, Manchester Authority: Environment Agency, North West Region Abstraction: Chemicals: Non-Evaporative Cooling 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 Croft Street, Clayton, Manchester Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 10th September 2007 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A4NE (SE)	1374	1	387860 398379

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Air Products (Chemicals) Plc Licence Number: 2569006037 Permit Version: 101 Location: Borehole 2 On Premises At Croft Street, Clayton, Manchester Authority: Environment Agency, North West Region Abstraction: Chemicals: Non-Evaporative Cooling 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 Croft Street, Clayton, Manchester Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 10th September 2007 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A4NE (SE)	1375	1	387859 398375
	Water Abstractions Operator: Air Products Chemicals Ltd Licence Number: 2569006037 Permit Version: 100 Location: Boreholes X 2 On Premises At Croft Street Clayton Manchester Authority: Environment Agency, North West Region Abstraction: Chemicals: General Cooling (Existing Licences Only) (Low Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 655 Yearly Rate (m3): 111832 Details: Premises Croft St, Clayton, M/Cr Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st July 1996 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A4NE (SE)	1396	1	387900 398400
	Water Abstractions Operator: Victor Wolf Ltd Licence Number: 2569007020 Permit Version: Not Supplied Location: Two Boreholes, Croft Street, Clayton, MANCHESTER Authority: Environment Agency, North West Region Abstraction: Cooling Abstraction Type: Not Supplied Source: Groundwater Daily Rate (m3): 2182 Yearly Rate (m3): 372772 Details: Licence Status: Revoked 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	A4NE (SE)	1399	1	387900 398395
	Water Abstractions Operator: Ciba Specialty Chemicals Plc Licence Number: 2569006026 Permit Version: 101 Location: Borehole At Premises, Clayton, Manchester Authority: Environment Agency, North West Region Abstraction: Chemicals: General Cooling (Existing Licences Only) (Low Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 2837 Yearly Rate (m3): 633949 Details: Premises At Clayton Manchester Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 25th July 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A4SE (SE)	1426	1	387700 398100

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Ciba Specialty Chemicals Plc Licence Number: 2569006026 Permit Version: 101 Location: Borehole At Premises, Clayton, Manchester Authority: Environment Agency, North West Region Abstraction: Chemicals: 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: Premises At Clayton Manchester Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 25th July 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A4SE (SE)	1426	1	387700 398100
	Water Abstractions Operator: Watney Mann (North) Ltd Licence Number: 2569005004 Permit Version: Not Supplied Location: Two Boreholes, NEWTON HEATH Authority: Environment Agency, North West Region Abstraction: Cooling & Manufacturing Abstraction Type: Not Supplied Source: Groundwater Daily Rate (m3): 1364 Yearly Rate (m3): 478435 Details: Additional Purpose: Cooling; Licence Status: Revoked 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	(N)	1547	1	386900 400800
	Water Abstractions Operator: Air Products (Chemicals) Plc Licence Number: 2569006036 Permit Version: 101 Location: Borehole On Premises At Clayton, Manchester Authority: Environment Agency, North West Region Abstraction: Chemicals: Non-Evaporative Cooling 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 Clayton, Manchester Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 10th September 2007 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(SE)	1569	1	388027 398277
	Water Abstractions Operator: Air Products Chemicals Ltd Licence Number: 2569006036 Permit Version: 100 Location: Borehole On Premises At Clayton Manchester Authority: Environment Agency, North West Region Abstraction: Chemicals: General Cooling (Existing Licences Only) (Low Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 3600 Yearly Rate (m3): 372772 Details: Premises At Clayton, Manchester Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st July 1996 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(SE)	1591	1	388000 398200

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Air Products Chemicals Ltd Licence Number: 2569006036 Permit Version: 100 Location: Borehole On Premises At Clayton Manchester Authority: Environment Agency, North West Region Abstraction: Chemicals: 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: Premises At Clayton, Manchester Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st July 1996 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(SE)	1591	1	388000 398200
	Water Abstractions Operator: British Waterways Board Licence Number: 2569006030 Permit Version: Not Supplied Location: Manchester, MANCHESTER Authority: Environment Agency, North West Region Abstraction: Not Supplied Abstraction Type: Not Supplied Source: Canal Daily Rate (m3): 0 Yearly Rate (m3): 0 Details: Ashton Canal 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	(SE)	1619	1	388100 398300
	Water Abstractions Operator: British Waterways Board Licence Number: 2569006995 Permit Version: 100 Location: Ashton Canal, Manchester Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: General Cooling (Existing Licences Only) (Low Loss) Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): 0 Yearly Rate (m3): 68190 Details: Land At Air Products Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st April 1969 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(SE)	1622	1	388100 398295
	Water Abstractions Operator: Manchester City Council Licence Number: 2569006006 Permit Version: Not Supplied Location: Borehole, Openshaw, MANCHESTER Authority: Environment Agency, North West Region Abstraction: Manufacturing Abstraction Type: Not Supplied Source: Groundwater Daily Rate (m3): 2273 Yearly Rate (m3): 2273 Details: Licence Status: Revoked 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	A4SE (SE)	1715	1	387800 397800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Packaging Products (Coatings) Ltd Licence Number: 2569005015 Permit Version: 102 Location: B/Hole, Little Green Works, Collyhurst Rd, Manchester 10 Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: General Cooling (Existing Licences Only) (Low 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 Little Green Works Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 9th February 2011 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(NW)	1822	1	385000 400100
	Water Abstractions Operator: Packaging Products Ltd Licence Number: 2569005015 Permit Version: 101 Location: B/Hole, Little Green Works, Collyhurst Rd, Manchester 10 Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: General Cooling (Existing Licences Only) (Low 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 Little Green Works Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 28th October 2004 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(NW)	1822	1	385000 400100
	Water Abstractions Operator: Packaging Products Ltd Licence Number: 2569005015 Permit Version: 100 Location: B/Hole, Little Green Works, Collyhurst Rd, Manchester 10 Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: General Cooling (Existing Licences Only) (Low Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 1637 Yearly Rate (m3): 438689 Details: Premises At Little Green Works Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 21st February 1995 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(NW)	1822	1	385001 400101
	Water Abstractions Operator: City Of Manchester Licence Number: 2569005038 Permit Version: Not Supplied Location: River Irk, Collyhurst, MANCHESTER Authority: Environment Agency, North West Region Abstraction: Manufacturing Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 546 Yearly Rate (m3): 93557 Details: Licence Status: Revoked 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	(NW)	1887	1	385300 400600

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Moseley Rubber Co Ltd Licence Number: 2569006001 Permit Version: 100 Location: Borehole At Premises, Broadie St, Ardwick, Manchester Authority: Environment Agency, North West Region Abstraction: Rubber: General Cooling (Existing Licences Only) (Low Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 909 Yearly Rate (m3): 331858 Details: Premises At Broadie St., Ardwick Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 8th February 1966 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(SW)	1913	1	385240 397540
	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 17 Derbyshire & North Staffordshire Scale: 1:100,000	A6NE (NW)	0	1	386604 399126
	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 17 Derbyshire & North Staffordshire Scale: 1:100,000	A6NE (NW)	0	1	386604 399126
	Bedrock Aquifer Designations Aquifer Desination: Secondary Aquifer - A	A6NE (NW)	0	3	386604 399126
	Superficial Aquifer Designations Aquifer Designation: Unproductive Strata	A6NE (NW)	0	3	386604 399126
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A11SE (E)	250	1	386990 399181
	Flooding from Rivers or Sea without Defences None				
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
62	**BGS Recorded Landfill Sites** Site Name: Clayton Vale Location: Clayton, MANCHESTER, Gt Manchester, M11 Authority: British Geological Survey, National Geoscience Information Service Ground Water: Information not available Surface Water: Information not available Geology: N/A Positional Accuracy: Positioned by the supplier Boundary Accuracy: Moderate	A12NE (E)	989	3	387678 399515
63	**Historical Landfill Sites** Licence Holder: North West Gas Location: Bradeley Hall Road, Haslington, Crewe, Cheshire Name: Bradford Road Works Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD16491 First Input Date: 7th December 1979 Last Input Date: 1st December 1983 Specified Waste Type: Deposited Waste included Inert, Industrial and Special Waste EA Waste Ref: Not Supplied Regis Ref: Not Supplied WRC Ref: 4200/9286 BGS Ref: Not Supplied Other Ref: RD/LIC/180/79, GDO F058, 0381	A6NE (NW)	0	1	386604 399126
64	**Historical Landfill Sites** Licence Holder: Not Supplied Location: Greater Manchester Name: New Viaduct Street Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD16497 First Input Date: Not Supplied Last Input Date: Not Supplied Specified Waste Type: Not Supplied EA Waste Ref: Not Supplied Regis Ref: Not Supplied WRC Ref: Not Supplied BGS Ref: Not Supplied Other Ref: F045	A6NE (SW)	58	1	386423 398976
65	**Historical Landfill Sites** Licence Holder: Regional Surveyore (North West Gas) Location: Greater Manchester Name: Bradford Road - Cambrian Street Depot Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD16501 First Input Date: 31st December 1985 Last Input Date: 31st December 1990 Specified Waste Type: Deposited Waste included Inert Waste EA Waste Ref: Not Supplied Regis Ref: Not Supplied WRC Ref: 4200/9020 BGS Ref: Not Supplied Other Ref: F044, RD/LIC/381/84	A6NE (SW)	189	1	386380 398836
66	**Historical Landfill Sites** Licence Holder: Central Electricity Generating Board Location: Bank Bridge Road, Manchester Name: Clayton Vale Power Station Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD16480 First Input Date: 31st December 1965 Last Input Date: 31st December 1968 Specified Waste Type: Deposited Waste included Inert, Industrial, Commercial, Household and Special Waste, and Liquid Sludge EA Waste Ref: Not Supplied Regis Ref: Not Supplied WRC Ref: 4200/9729 BGS Ref: Not Supplied Other Ref: RD/LIC/045/76,GDO F001	A8NW (E)	731	1	387423 398936

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
67	**Historical Landfill Sites** Licence Holder: Not Supplied Location: Clayton, Manchester, Greater Manchester Name: Clayton Vale Operator Location: Stuart Street Power Station Boundary Accuracy: As Supplied Provider Reference: EAHLD32041 First Input Date: 31st December 1901 Last Input Date: Not Supplied Specified Waste Type: Deposited Waste included Inert and Industrial Waste EA Waste Ref: Not Supplied Regis Ref: Not Supplied WRC Ref: Not Supplied BGS Ref: 2777 Other Ref: Not Supplied	A12NE (E)	989	1	387678 399515
68	**Integrated Pollution Control Registered Waste Sites** Name: Evans Universal Ltd Location: The Abattoir, Riverpark Road, MANCHESTER, M10 2XP Authority: Environment Agency, North West Region Permit Reference: AW8467 Dated: 15th October 1996 Process Type: IPC new application Description: 5.1 A (C) Incineration within the Waste Disposal Industry **Status: Application has met the requirements for authorisation (but not yet authorised)Not Yet Authorised** Positional Accuracy: Automatically positioned to the address	A12SW (NE)	674	1	387365 399456
69	**Licensed Waste Management Facilities (Locations)** Licence Number: 53429 Location: Upper Helena Street, Manchester, M40 7EQ Operator Name: Race Dennis Operator Location: Not Supplied Authority: Environment Agency - North West Region, South Area Site Category: Metal Recycling Sites (Mixed) **Licence Status: Surrendered** Issued: 18th November 1999 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: 14th June 2004 IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A6NW (SW)	358	1	386180 398798
70	**Licensed Waste Management Facilities (Locations)** Licence Number: 53629 Location: Holt Town Ind Est, Holt Town, Manchester, M40 7FQ Operator Name: Mc Guinness & Co Ltd Operator Location: Not Supplied Authority: Environment Agency - North West Region, South Area Site Category: Special Waste Transfer Stations **Licence Status: Surrendered** Issued: 3rd November 1995 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: 26th June 2002 IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A6SW (SW)	382	1	386236 398704
71	**Licensed Waste Management Facilities (Locations)** Licence Number: 102576 Location: Yard 3, Arkady Ind Est, Brisco Lane, Newton Heath, Manchester, Lancs, M40 2XG Operator Name: M C R Central Skips Ltd Operator Location: Not Supplied Authority: Environment Agency - North West Region, South Area Site Category: HCI Waste TS + treatment **Licence Status: Issued** Issued: 8th September 2011 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 10m	A11NE (NE)	464	1	387020 399590

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
72	**Licensed Waste Management Facilities (Locations)** Licence Number: 50405 Location: 1 Cambrian Street, Ancoats, Manchester, M40 7EG Operator Name: Hurstfield Paul Operator Location: Not Supplied Authority: Environment Agency - North West Region, South Area Site Category: End of Life Vehicles **Licence Status: Issued** Issued: 7th June 2005 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 10m	A6SW (SW)	490	1	386084 398706
73	**Licensed Waste Management Facilities (Locations)** Licence Number: 50069 Location: Upper Helena Street, Manchester, M40 7EQ Operator Name: Murray Mills Conservation Ltd Operator Location: Not Supplied Authority: Environment Agency - North West Region, South Area Site Category: Household, Commercial And Industrial Transfer Stations **Licence Status: Expired** Issued: 16th May 2001 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: 29th January 2002 Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 100m	A6SW (SW)	622	1	386000 398600
74	**Licensed Waste Management Facilities (Locations)** Licence Number: 53767 Location: Land At The Junction Of, Cheetham Street & Goodier Street, Oldham Road, Manchester, M40 2BP Operator Name: European Metal Recycling Ltd Operator Location: Not Supplied Authority: Environment Agency - North West Region, South Area Site Category: Metal Recycling Sites (Mixed) **Licence Status: Transferred** Issued: 12th October 1993 Last Modified: 4th January 2005 Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A14SE (N)	730	1	386465 399982
74	**Licensed Waste Management Facilities (Locations)** Licence Number: 50355 Location: Land/premises At, Irlam Street, Off Irlam Road, Manchester, M40 2BP Operator Name: European Metal Recycling Ltd Operator Location: Not Supplied Authority: Environment Agency - North West Region, South Area Site Category: Metal Recycling Sites (Mixed) **Licence Status: Modified** Issued: 4th January 2005 Last Modified: 11th December 2009 Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A14SE (N)	747	1	386446 399995

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
75	**Licensed Waste Management Facilities (Locations)** Licence Number: 53559 Location: Navigation Trading Estate, Bower Street, Newton Heath, Manchester, M40 2AR Operator Name: Recon Packaging Ltd Operator Location: Not Supplied Authority: Environment Agency - North West Region, South Area Site Category: Material Recycling Treatment Facilities **Licence Status: Issued** Issued: 12th March 1997 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	A15SW (N)	743	1	386800 400000
76	**Licensed Waste Management Facilities (Locations)** Licence Number: 53488 Location: Land/premises At, Bower Street, Newton Heath, Manchester, M40 2AF Operator Name: Manchester Drums Ltd Operator Location: Not Supplied Authority: Environment Agency - North West Region, South Area Site Category: Material Recycling Treatment Facilities **Licence Status: Modified** Issued: 12th August 1998 Last Modified: 1st November 2001 Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A15SW (N)	859	1	386884 400098
77	**Licensed Waste Management Facilities (Locations)** Licence Number: 103632 Location: 498 Oldham Road, Miles Platting, Manchester, Lancs, M40 5AA Operator Name: Anthony O' Connor And Sons Ltd Operator Location: Not Supplied Authority: Environment Agency - North West Region, South Area Site Category: Inert & Excavation WTS with treatment **Licence Status: Issued** Issued: 23rd December 2011 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 10m	A14SW (NW)	910	1	386210 400075
78	**Licensed Waste Management Facilities (Locations)** Licence Number: 53518 Location: Old Leaches Yard, Beckford Street, Miles Platting, Manchester, M40 5AE Operator Name: Anthony & Darren James Benson Operator Location: Not Supplied Authority: Environment Agency - North West Region, South Area Site Category: Household, Commercial And Industrial Transfer Stations **Licence Status: Transferred** Issued: 9th February 1993 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 10m	A14SW (N)	938	1	386258 400130

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
79	**Licensed Waste Management Facilities (Locations)** Licence Number: 53467 Location: Land/premises At, Bank Street, Clayton, Manchester, M11 4BT Operator Name: Recon Packaging Ltd Operator Location: Not Supplied Authority: Environment Agency - North West Region, South Area Site Category: Material Recycling Treatment Facilities **Licence Status: Issued** Issued: 4th December 1998 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 10m	A8SW (SE)	977	1	387559 398646
	Local Authority Landfill Coverage Name: Manchester City Council - Has not been able to supply Landfill data		0	5	386604 399126
80	**Registered Landfill Sites** Licence Holder: North West Gas Licence Reference: 00180 Site Location: Bradford Road Gas Works, Manchester, Greater Manchester Licence Easting: 386700 Licence Northing: 399000 Operator Location: Welman House, Altrincham, Cheshire Authority: Environment Agency - North West Region, South 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: No known restriction on source of waste Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 22nd September 1983 Preceded By Licence: Not Given Superseded By Licence: Not Given Positional Accuracy: Manually positioned to the road within the address or location Boundary Accuracy: Not Applicable Authorised Waste: Asbestos Construction And Demolition Wastes Prohibited Waste: Liquid/Slurry/Sludge Wastes Notifiable Wastes N.O.S	A7NW (SE)	8	1	386639 399079
81	**Registered Landfill Sites** Licence Holder: North West Gas Licence Reference: 00381/84/M1 Site Location: Bradford Road, Gasworks Site, Manchester, Greater Manchester Licence Easting: 386700 Licence Northing: 399100 Operator Location: Welman House, Altrincham, Cheshire Authority: Environment Agency - North West Region, South Area Site Category: Landfill Max Input Rate: Very Large (Equal to or greater than 250,000 tonnes per year) Waste Source Restrictions: No known restriction on source of waste Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 10th October 1985 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: Constr'N/Demol. Inert/Non-Haz/Non-Tox Non Leachate Forming Waste Soil,Clay,Sand Stone,Brick,Concrete,Slate Prohibited Waste: Carcasses And Flesh Chemical Wastes Food Waste Liquid Wastes Metal Scrap Paper/Cardboard Waste Plasterboard/Plaster Plastic/Polythene (Including Sacks) Sawdust/Bark Sludge Wastes Textiles, Rag,Wool,Cloth,Hessian Etc Vegetable/Processing Waste Waste Forming Polluting Leachate Wood Waste/Timber	A7NW (E)	12	1	386700 399100

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
82	**Registered Waste Transfer Sites** Licence Holder: D Warrender Licence Reference: Eawml50069 Site Location: Upper Helena Street, Manchester, Greater Manchester, M40 7eq Operator Location: Upper Helena Street, Manchester, Greater Manchester, M40 7eq Authority: Environment Agency - North West Region, South Area Site Category: Transfer Max Input Rate: Undefined Waste Source Restrictions: No known restriction on source of waste Licence Status: Operational as far as is knownOperational Dated: 16th May 2001 Preceded By Licence: Not Given Superseded By Licence: Not Given Positional Accuracy: Manually positioned to the road within the address or location Boundary Quality: Not Supplied Authorised Waste: Household/Commercial/Industrial Waste (Inferred From Regis Listing) New Licence, Wastes Not To Hand	A6SW (SW)	399	1	386150 398770
83	**Registered Waste Transfer Sites** Licence Holder: P Mc Guiness & Co Ltd Licence Reference: 00775 Site Location: Holt Town, Manchester, Greater Manchester, M40 7fq Operator Location: As Site Address Authority: Environment Agency - North West Region, South Area Site Category: Transfer Max Input Rate: Very Small (Less than 10,000 tonnes per year) Waste Source Restrictions: No known restriction on source of waste Licence Status: Operational as far as is knownOperational Dated: 1st November 1995 Preceded By Licence: Not Given Superseded By Licence: Not Given Positional Accuracy: Manually positioned within the geographical locality Boundary Quality: Not Supplied Authorised Waste: Asbestos All Forms Max.Waste Permitted By Licence Prohibited Waste: Waste N.O.S.	A6SW (SW)	408	1	386200 398700

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
84	**Registered Waste Transfer Sites** Licence Holder: James Moores Ltd Licence Reference: 00727/91 Site Location: Oldham Road, Miles Platting, Manchester, Greater Manchester Operator Location: As Site Address Authority: Environment Agency - North West Region, South Area Site Category: Transfer Max Input Rate: Large (Equal to or greater than 75,000 and less than 250,000 tonnes per year) Waste Source Restrictions: No known restriction on source of waste Licence Status: Record supersededSuperseded Dated: 1st December 1991 Preceded By Licence: Not Given Superseded By Licence: 00727/M01/T01 Positional Accuracy: Manually positioned to the address or location Boundary Quality: Not Supplied Authorised Waste: Bonded Asbestos Sheet/Piping Contaminated Waste/Soils Gmwda Group 1 - Non/V.Slow Decomp.Wast Gmwda Group 2 - Slow Decomp./Slight So Gmwda Group 3 - Decomp./Sol.Waste = No Household Waste As Part Of Skip Waste Max.Storage Max.Storage Of Reclaimed Mat'L Max.Waste Permitted By Licence-Stated Plaster Prohibited Waste: Asbestos Ash, Clinker Boiler Scale, Slag Clinical Wastes Cosmetic Products Explosive Waste Foundry Sand Gas Under Pressure Incinerator Residues Liquid/Sludge Wastes Malodorous Waste Pretreated Waste Not Permit By Lic Sewage Soap, Detergents Special Wastes Veg. Food/Proc, Animal Carcass Violently Reactive Waste Waste In Drums Waste N.O.S.	A14SE (N)	739	1	386460 399990
85	**Registered Waste Transfer Sites** Licence Holder: Park Pit Landfill Ltd Licence Reference: 00973 Site Location: Queens Road / Oldham Road, Miles Platting, Manchester, Greater Manchester Operator Location: PO Box 54, Rydings Road, Wardle, ROCHDALE, Lancashire, OL12 9PS Authority: Environment Agency - North West Region, South Area Site Category: Transfer Max Input Rate: Large (Equal to or greater than 75,000 and less than 250,000 tonnes per year) Waste Source Restrictions: No known restriction on source of waste Licence Status: Licence has completion certificateSurrendered Dated: 1st October 1994 Preceded By Licence: Not Given Superseded By Licence: Not Given Positional Accuracy: Manually positioned to the road within the address or location Boundary Quality: Not Supplied Authorised Waste: Asbestos Sheet/Piping - Comp./Bonded Dyestuffs Waste Fats And Greases Gmwda Group 1 - Non/V.Slow Decomp.Wast Gmwda Group 2 - Slow Decomp./Slight So Gmwda Group 3 - Most Items Max.Waste Permitted By Licence Mineral Oils Paint/Varnish Polymeric Material, Products/Scrap Tar, Pitch, Bitumen, Asphalts Vegetable Oils Prohibited Waste: Waste N.O.S.	A14SW (NW)	855	1	386060 399900

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
86	**Registered Waste Transfer Sites** Licence Holder: B A Hibbert Licence Reference: 00774/M01/T01 Site Location: Old Leaches Yard, Beckford Street, Miles Platting, Manchester, Greater Manchester, M40 5ae Operator Location: As Site Address Authority: Environment Agency - North West Region, South Area Site Category: Transfer Max Input Rate: Very Small (Less than 10,000 tonnes per year) Waste Source Restrictions: No known restriction on source of waste Licence Status: Operational as far as is knownOperational Dated: 1st December 1997 Preceded By Licence: 00774 Superseded By Licence: Not Given Positional Accuracy: Manually positioned to the road within the address or location Boundary Quality: Not Supplied Authorised Waste: Gmwda Group 1 - Non/V.Slow Decomp.Wast Gmwda Group 2 - Slow Decomp./Slight So Gmwda Group 3 - Decomp./Sol.Waste = No Max.Storage In Licence Max.Waste Permitted By Licence Prohibited Waste: Asbestos Explosive Waste Liquid Wastes Pressurised Wastes Or Containers Sludge Wastes Spec.Waste (Epa'90:S62/1996 Regs) Waste In Drums Waste N.O.S. Waste React Violently With Water	A14SE (N)	883	1	386330 400100
86	**Registered Waste Transfer Sites** Licence Holder: T J Mc Ivor Licence Reference: 00774 Site Location: Old Leaches Yard, Beckford Street, Miles Platting, Manchester, Greater Manchester, M40 5ae Operator Location: 63 Brierley Avenue, FAILSWORTH, Greater Manchester, M35 0RF Authority: Environment Agency - North West Region, South Area Site Category: Transfer Max Input Rate: Very Small (Less than 10,000 tonnes per year) Waste Source Restrictions: No known restriction on source of waste Licence Status: Record supersededSuperseded Dated: 1st February 1993 Preceded By Licence: Not Given Superseded By Licence: 00774/M01/T01 Positional Accuracy: Manually positioned to the road within the address or location Boundary Quality: Not Supplied Authorised Waste: Gmwda Group 1 - Non/V.Slow Decomp.Wast Gmwda Group 2 - Slow Decomp./Slight So Gmwda Group 3 - Decomp./Sol.Waste = No High-Dens/Hard/Bonded/Cement Asbestos Max.Storage In Licence Max.Storage Of Reclaimed Waste Max.Waste Permitted By Licence Prohibited Waste: Explosive Waste Gmwda Group 5 - Chemical/Toxic Waste Liquid/Sludge Wastes Special Wastes Waste In Drums Waste In Pressurised Cont'Rs Waste N.O.S. - Pretreated Or Not Waste Violently Reactive With Water	A14SE (N)	883	1	386330 400100

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
87	**Registered Waste Treatment or Disposal Sites** Licence Holder: D Race t/a D Race & Sons Licence Reference: 80007 Site Location: Upper Helena Street, Ancoats, MANCHESTER, Greater Manchester, M40 7EQ Operator Location: 7A Boat Lane, Northenden, MANCHESTER, Greater Manchester, M22 4HR Authority: Environment Agency - North West Region, South Area Site Category: Scrapyard Max Input Rate: Very Small (Less than 10,000 tonnes per year) Waste Source Restrictions: No known restriction on source of waste Licence Status: Operational as far as is knownOperational Dated: 18th November 1999 Preceded By Licence: Not Given Superseded By Licence: Not Given Positional Accuracy: Positioned by the supplier Boundary Quality: Good Authorised Waste: Maximum Waste Permitted By Licence Scrap Electrical Plant/Machinery Scrap Vehicles Uncontaminated Transformers/Capacitors Prohibited Waste: Other Waste/Waste Not Otherwise Specified Refrigerant Gases Special Waste (As In Epa 1990:S62 Of 1996 Regs) Not Otherwise Specified	A6NW (SW)	316	1	386202 398843
88	**Registered Waste Treatment or Disposal Sites** Licence Holder: B Mitchell Licence Reference: 00873 Site Location: Upper Helena Street, Ancoats, Manchester, Greater Manchester Operator Location: 6 Mallard Close, HOLLINS, Greater Manchester, OL8 4LE Authority: Environment Agency - North West Region, South Area Site Category: Scrapyard - with Transfer Station Max Input Rate: Medium (Equal to or greater than 25,000 and less than 75,000 tonnes per year) Waste Source Restrictions: No known restriction on source of waste Licence Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st June 1994 Preceded By Licence: Not Given Superseded By Licence: Not Given Positional Accuracy: Manually positioned to the road within the address or location Boundary Quality: Not Supplied Authorised Waste: Asbestos Sheet/Piping - Comp./Bonded Gmwda Group 1 - Non/V.Slow Decomp.Wast Gmwda Group 2 - Slow Decomp./Slight So Gmwda Group 3 - Decomp./Sol.Waste = No Max.Waste Permitted By Licence Prohibited Waste: Explosive Waste Liquid Wastes Press'D Containers Or Waste Therein Sludge Wastes Special Wastes Waste In Drums Waste N.O.S Whether /Not Pack./Pre-Trt Waste Reacting Violently With Water	A6SW (SW)	353	1	386200 398780

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
89	**Registered Waste Treatment or Disposal Sites** Licence Holder: Degussa Ltd Manox Division Licence Reference: 00716/91 Site Location: Coleshill Street, Miles Platting, MANCHESTER, Greater Manchester, M10 7AA Operator Location: As Site Address Authority: Environment Agency - North West Region, South Area Site Category: Treatment Max Input Rate: Medium (Equal to or greater than 25,000 and less than 75,000 tonnes per year) Waste Source Restrictions: No known restriction on source of waste Licence Status: Site now IPC authorisedAuthorised Dated: 1st September 1992 Preceded By Licence: Not Given Superseded By Licence: Not Given Positional Accuracy: Manually positioned to the address or location Boundary Quality: Not Supplied Authorised Waste: Barium & Cpds; Calcium & Cpds; Cyanides - All Types; Inorganic Acids Ph < 4.0; Max.Waste Permitted By Licence; Potassium & Cpds; Sodium & Cpds Prohibited Waste: Explosive Waste; Malodorous Waste; Pressurised Waste; Violently Reactive Wastes; Waste N.O.S.	A10SW (NW)	450	1	386150 399350
90	**Registered Waste Treatment or Disposal Sites** Licence Holder: Manchester Cabins Ltd Licence Reference: 00863/92 Site Location: Albion Works, Drewett Street, Miles Platting, MANCHESTER, Greater Manchester, M10 8AR Operator Location: As Site Address Authority: Environment Agency - North West Region, South Area Site Category: Treatment Max Input Rate: Medium (Equal to or greater than 25,000 and less than 75,000 tonnes per year) Waste Source Restrictions: No known restriction on source of waste Licence Status: Site exempt from licenceExempt Dated: 1st July 1993 Preceded By Licence: Not Given Superseded By Licence: Not Given Positional Accuracy: Manually positioned to the road within the address or location Boundary Quality: Not Supplied Authorised Waste: Max.Storage Reclaimed Materials; Scrap Rubber (Including Tyres) Prohibited Waste: Explosive Waste; Liquid Wastes; Malodorous Waste; Pressurized Containers/Waste Therein; Sludge Wastes; Special Wastes; Violently Reactive Wastes; Waste In Drums; Waste N.O.S.	A10NE (NW)	564	1	386340 399750

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
91	**Registered Waste Treatment or Disposal Sites** Licence Holder: Recon Packaging Ltd Licence Reference: 00840 Site Location: Navigation Trading Estate, Bower Street, Newton Heath, MANCHESTER, Greater Manchester, M10 6BX Operator Location: As Site Address Authority: Environment Agency - North West Region, South Area Site Category: Recycling Drums Max Input Rate: Very Small (Less than 10,000 tonnes per year) Waste Source Restrictions: No known restriction on source of waste Licence Status: Operational as far as is knownOperational Dated: 1st March 1997 Preceded By Licence: Not Given Superseded By Licence: Not Given Positional Accuracy: Approximate location provided by supplier Boundary Quality: Not Supplied Authorised Waste: Cont'Rs With < 1% Of Permitted Residue; Cont'Rs With Waste Cosmetics; Cont'Rs With Waste Latex; Cont'Rs With Waste Soap/Detergent; Max.Waste Permitted By Licence; Max.Waste Permitted By Licence Plus; Pre-Cleaned Empty Drums Prohibited Waste: Drums Cont. Uk Red List Subs; Drums Cont.Subs In Eec Dir. 76/464; Drums Cont.Subs In Eec Dir. 80/68; Highly Malodorous Wastes; Pressurised Waste; Residues Of Haz.Chemicals; Residues Of Spec.Waste (Epa'90:S62); Sub'S Control. Radioactive Subs Act'60; Subs React Violently With Water; Waste N.O.S.	A15SW (N)	744	1	386801 400001

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
92	**Registered Waste Treatment or Disposal Sites** Licence Holder: The Sheppard Group Ltd Licence Reference: 00727/M01/T01 Site Location: E M R Moores Division, Irlam Street, Miles Platting, Manchester, Greater Manchester, M40 2bp Operator Location: Alexandra Building, Alexandra Dock, Bootle, Liverpool, Merseyside Authority: Environment Agency - North West Region, South Area Site Category: Scrapyard - with Transfer Station Max Input Rate: Medium (Equal to or greater than 25,000 and less than 75,000 tonnes per year) Waste Source Restrictions: No known restriction on source of waste Licence Status: Operational as far as is knownOperational Dated: 12th October 1993 Preceded By Licence: 00943 Superseded By Licence: Not Given Positional Accuracy: Manually positioned to the address or location Boundary Quality: Not Supplied Authorised Waste: Brake Fluid/Antifreeze Cadmium & Cpds Carbides And Acetylides Comp.Bonded Asbestos Sheet/Piping Contaminated Soil - Class C Copper & Cpds Electrical Goods/Tvs/Whiteware Fuel Oil Gmwda Group 1 - Non/V.Slow Decomp.Wast Gmwda Group 2 - Slow Decomp./Slight So Gmwda Group 3 - Only As Follows Gmwda Group 5 - Only As Follows Household Waste Inorganic Acids Iron & Cpds Kerosene And Derv. Lead & Cpds Max.Waste Permitted By Licence Mineral Oils Organic Acids + Related Cmpds Organo-Metallic Cmpds Phenols, Analogues/Derivatives Plaster Plasterboard Scrap Metal Scrap Rubber (Including Tyres) Silver & Cpds Tin & Cpds Titanium & Cpds Zinc & Cpds Prohibited Waste: Explosive Waste Liquid Wastes Mineral Processing Wastes Pressurised Cont'Rs/Waste Therein Slag, Boiler/Flue Cleanings Sludge Wastes Violently Reactive Wastes Waste In Drums Waste N.O.S.	A14SE (N)	749	1	386460 400000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
93	**Registered Waste Treatment or Disposal Sites** Licence Holder: Drummer Boy Trading Co Ltd Licence Reference: 00782 Site Location: Bower Street, Newton Heath, MANCHESTER, Greater Manchester, M10 6BX Operator Location: As Site Address Authority: Environment Agency - North West Region, South Area Site Category: Recycling Drums Max Input Rate: Very Small (Less than 10,000 tonnes per year) Waste Source Restrictions: No known restriction on source of waste Licence Status: Operational as far as is knownOperational Dated: 12th August 1998 Preceded By Licence: Not Given Superseded By Licence: Not Given Positional Accuracy: Located by supplier to within 100m Boundary Quality: Not Supplied Authorised Waste: Empty Used Ibcs With < 2 Litre Liq Or 10 Litre Solid Residues Which May Include Empty Used Packagescontainers With < 1%Vol Residues Which May Include Maximum Waste In Working Plan Maximum Waste Permitted By Licence Packagescontainers/Ibcs With < 10%Vol Non-Haz. Residues Which May Include Special Waste (As In Epa 1990:S62 Of 1996 Regs) Starch Based Polymers Surfactants Water Based Adhesive Wastes Prohibited Waste: Drums With Residues Of Subs In Prescribed Subs/Processes Regs 1989) Drums/Cont'Rs With Residues Of List I Subs In Eec Directive 80/68/Eec Material With Haz.Code H 1 - Explosive Material With Haz.Code H 2 - Oxidising Material With Haz.Code H 3a - Highly Flammable Material With Haz.Code H 6 - Toxic Material With Haz.Code H 7 - Carcinogenic Material With Haz.Code H 9 - Infectious Material With Haz.Code H10 - Teratogenic Material With Haz.Code H11 - Mutagenic Material With Haz.Code H12 - Can Release Toxic Gases Material With Haz.Code H14 - Ecotoxic Other Waste/Waste Not Otherwise Specified	A15SW (N)	859	1	386880 400100

Hazardous Substances

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
94	**Control of Major Accident Hazards Sites (COMAH)** Name: Transco Plc Location: Bradford Road Holder, Bradford Road, Miles Platting, MANCHESTER, Greater Manchester, M10 7BL Reference: 1029780 Type: Upper Tier **Status: Active** Positional Accuracy: Manually positioned to the address or location	A11SW (NE)	0	4	386676 399205
95	**Control of Major Accident Hazards Sites (COMAH)** Name: National Grid Gas Plc Location: Bradford Road Holder Station/Ngg Plc, Bradford Road, Miles Platting,Manchester, Greater Manchester, M10 7BL Reference: Not Supplied Type: Upper Tier **Status: Active** Positional Accuracy: Manually positioned to the address or location	A6NE (SW)	207	4	386276 398945
96	**Control of Major Accident Hazards Sites (COMAH)** Name: Degussa Limited Location: Manox House, Coleshill Street, Manchester, M40 7AA Reference: 17545 Type: Upper Tier **Status: Record Ceased To Be Supplied Under COMAH Regulations** Positional Accuracy: Automatically positioned to the address	A10SW (NW)	439	4	386181 399375
97	**Control of Major Accident Hazards Sites (COMAH)** Name: Rhodia Ltd Location: Clayton Site, Ashton New Road, MANCHESTER, Lancashire, M11 4AT Reference: Not Supplied Type: Lower Tier **Status: Record Ceased To Be Supplied Under COMAH Regulations** Positional Accuracy: Manually positioned to the road within the address or location	A3NE (SE)	918	4	387242 398374
98	**Notification of Installations Handling Hazardous Substances (NIHHS)** Name: British Gas (North West) PLC Location: Bradford Road Holder Station, Bradford Road, Miles Platting, MANCHESTER, Greater Manchester, M10 7BL **Status: Record Ceased To Be Supplied Under NIHHS Regulations (1982)** Positional Accuracy: Unknown	A11SW (NE)	0	4	386672 399183
99	**Planning Hazardous Substance Consents** Name: Bg Transco Plc Location: Alan Turing Way, New Viaduct Street, MANCHESTER, Greater Manchester, M40 7 Authority: Manchester City Council, Planning Department Application Ref: 059226/Hsc/North2/00 Hazardous Substance: Liquefied extremely flammable gas (including LPG) and natural gas (whether liquefied or not) Maximum Quantity: 0 Application date: 11th May 2000 **Decision: Deemed Consent GrantedGranted** Positional Accuracy: Manually positioned to the address or location	A11SW (NE)	0	5	386680 399203
99	**Planning Hazardous Substance Consents** Name: British Gas Location: Bradford Road Holder Station, Miles Platting, Manchester, Greater Manchester, M10 7bl Authority: Manchester City Council, Planning Department Application Ref: 000001/HSC/NORTH2/92 Hazardous Substance: Liquefied extremely flammable gas (including LPG) and natural gas (whether liquefied or not) Maximum Quantity: 453.2 Application date: 24th September 1992 **Decision: Deemed Consent GrantedGranted** Positional Accuracy: Manually positioned to the address or location	A11SW (NE)	0	5	386666 399189
100	**Planning Hazardous Substance Consents** Name: Bg Transco Plc Location: Gleden Street, Bradford Road, MANCHESTER, Greater Manchester, M40 7 Authority: Manchester City Council, Planning Department Application Ref: 059225/Hsc/North2/00 Hazardous Substance: Liquefied extremely flammable gas (including LPG) and natural gas (whether liquefied or not) Maximum Quantity: 0 Application date: 11th May 2000 **Decision: Deemed Consent GrantedGranted** Positional Accuracy: Manually positioned to the address or location	A6NE (SW)	199	5	386284 398945

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Upper Westphalian (including Pennant Measures)	A6NE (NW)	0	3	386604 399126
	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: 150 - 300 mg/kg Nickel Concentration: 15 - 30 mg/kg	A6NE (NW)	0	6	386604 399126
	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: 300 - 600 mg/kg Nickel Concentration: 30 - 45 mg/kg	A6NE (S)	0	6	386604 399000
	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: 300 - 600 mg/kg Nickel Concentration: 30 - 45 mg/kg	A6NE (SW)	131	6	386407 398887
	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: 300 - 600 mg/kg Nickel Concentration: 30 - 45 mg/kg	A6NW (W)	227	6	386249 399000
	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: 150 - 300 mg/kg Nickel Concentration: 15 - 30 mg/kg	A7NE (E)	259	6	387000 399126
	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: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A11NW (NE)	299	6	386856 399506

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 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A7NE (E)	317	6	387000 399000
	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: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A11SE (NE)	332	6	387000 399411
	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: 300 - 600 mg/kg Nickel Concentration: 30 - 45 mg/kg	A6SW (SW)	396	6	386249 398676
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: 15 - 30 mg/kg	A6NW (W)	475	6	386000 399126
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: 1.8 - 2.2 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 300 - 600 mg/kg Nickel Concentration: 30 - 45 mg/kg	A6NW (W)	475	6	386000 399000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: 1.8 - 2.2 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 300 - 600 mg/kg Nickel Concentration: 30 - 45 mg/kg	A6NW (SW)	496	6	386000 398860

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 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A11NE (NE)	640	6	387277 399550
	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: 150 - 300 mg/kg Nickel Concentration: 15 - 30 mg/kg	A15SE (NE)	694	6	387069 399838
	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: 300 - 600 mg/kg Nickel Concentration: 30 - 45 mg/kg	A6SW (SW)	696	6	386000 398492
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: 1.8 - 2.2 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 300 - 600 mg/kg Nickel Concentration: 30 - 45 mg/kg	A6SW (SW)	696	6	385994 398498
	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: 150 - 300 mg/kg Nickel Concentration: 15 - 30 mg/kg	A15SE (NE)	700	6	387000 399883
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 25 - 35 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	A5NE (W)	710	6	385765 399000

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 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 90 - 120 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A14SE (N)	726	6	386604 400000
	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: 150 - 300 mg/kg Nickel Concentration: 15 - 30 mg/kg	A15SW (N)	747	6	386820 400000
	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: 150 - 300 mg/kg Nickel Concentration: 30 - 45 mg/kg	A8NW (E)	753	6	387466 399000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: 1.8 - 2.2 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 300 - 600 mg/kg Nickel Concentration: 30 - 45 mg/kg	A5SE (SW)	763	6	385915 398484
	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: 300 - 600 mg/kg Nickel Concentration: 30 - 45 mg/kg	A2NW (SW)	771	6	386000 398394
	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: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A12SW (E)	781	6	387521 399239

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 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A15SE (NE)	785	6	387000 399976
	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: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A15SE (NE)	799	6	386978 400000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: 1.8 - 2.2 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 300 - 600 mg/kg Nickel Concentration: 30 - 45 mg/kg	A5SE (SW)	801	6	385856 398493
	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: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A15SE (NE)	807	6	387000 400000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: 30 - 45 mg/kg	A2NW (SW)	825	6	386000 398327
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: 1.8 - 2.2 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 300 - 600 mg/kg Nickel Concentration: 30 - 45 mg/kg	A5SE (SW)	832	6	385825 398482

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 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: 30 - 45 mg/kg	A12NW (NE)	849	6	387491 399598
	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: 300 - 600 mg/kg Nickel Concentration: 30 - 45 mg/kg	A2NW (SW)	870	6	386000 398272
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: 30 - 45 mg/kg	A12NW (E)	881	6	387566 399511
	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: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A12NW (NE)	883	6	387547 399563
	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: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A12SW (E)	894	6	387615 399390
	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: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A14SW (NW)	901	6	386109 400000

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 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 90 - 120 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A15NW (N)	902	6	386829 400157
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: 30 - 45 mg/kg	A12SE (E)	914	6	387653 399243
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: 30 - 45 mg/kg	A12NW (NE)	922	6	387513 399705
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: 30 - 45 mg/kg	A8NE (E)	968	6	387687 399000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 25 - 35 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	A14SW (NW)	970	6	386000 400000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: 30 - 45 mg/kg	A5NW (W)	973	6	385513 398825

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 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: 30 - 45 mg/kg	A16SW (NE)	975	6	387415 399919
	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: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A8NE (E)	976	6	387699 399000
	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: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A8NE (E)	978	6	387689 398963
	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: 30 - 45 mg/kg	A8NE (E)	978	6	387674 398905
	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: 300 - 600 mg/kg Nickel Concentration: 30 - 45 mg/kg	A2SE (S)	987	6	386515 398000
	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: 300 - 600 mg/kg Nickel Concentration: 30 - 45 mg/kg	A2SE (S)	987	6	386604 398000

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 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: 30 - 45 mg/kg	A16SW (NE)	997	6	387360 400000
101	**BGS Recorded Mineral Sites** Site Name: Miles Platting Brick Works Location: , Miles Platting, Manchester, Lancashire Source: British Geological Survey, National Geoscience Information Service Reference: 95121 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Quaternary Geology: Till, Devensian Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A10SE (N)	135	3	386605 399404
102	**BGS Recorded Mineral Sites** Site Name: Philips Park Brick Works Location: , Clayton, Manchester, Lancashire Source: British Geological Survey, National Geoscience Information Service Reference: 95125 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Quaternary Geology: Till, Devensian Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A11NW (NE)	340	3	386930 399504
103	**BGS Recorded Mineral Sites** Site Name: Philips Park Brick Works Location: , Clayton, Manchester, Lancashire Source: British Geological Survey, National Geoscience Information Service Reference: 95126 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Quaternary Geology: Till, Devensian Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A12NW (NE)	676	3	387359 399474
104	**BGS Recorded Mineral Sites** Site Name: Bradford Colliery Location: , Bradford, Manchester Source: British Geological Survey, National Geoscience Information Service Reference: 15069 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: Pennine Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A3NE (SE)	713	3	386975 398435
105	**BGS Recorded Mineral Sites** Site Name: Ardwick Lime Works Pit Location: , Ardwick, Manchester Source: British Geological Survey, National Geoscience Information Service Reference: 29581 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: Great Mine Limestone Commodity: Limestone Positional Accuracy: Located by supplier to within 10m	A2SE (S)	934	3	386480 398055

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: 386750, 399310 Soil Sample Type: Topsoil Sample Area: Manchester Arsenic Measured Concentration: 20.00 mg/kg Cadmium Measured Concentration: 1.10 mg/kg Chromium Measured Concentration: 68.00 mg/kg Lead Measured Concentration: 282.00 mg/kg Nickel Measured Concentration: 24.00 mg/kg	A11SW (NE)	78	3	386750 399310
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 386260, 399250 Soil Sample Type: Topsoil Sample Area: Manchester Arsenic Measured Concentration: 60.00 mg/kg Cadmium Measured Concentration: 1.20 mg/kg Chromium Measured Concentration: 94.00 mg/kg Lead Measured Concentration: 544.00 mg/kg Nickel Measured Concentration: 47.00 mg/kg	A10SW (W)	302	3	386260 399250
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 386870, 398730 Soil Sample Type: Topsoil Sample Area: Manchester Arsenic Measured Concentration: 20.00 mg/kg Cadmium Measured Concentration: 1.20 mg/kg Chromium Measured Concentration: 136.00 mg/kg Lead Measured Concentration: 308.00 mg/kg Nickel Measured Concentration: 41.00 mg/kg	A7SW (SE)	418	3	386870 398730
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 387220, 399210 Soil Sample Type: Topsoil Sample Area: Manchester Arsenic Measured Concentration: 40.00 mg/kg Cadmium Measured Concentration: 1.00 mg/kg Chromium Measured Concentration: 71.00 mg/kg Lead Measured Concentration: 412.00 mg/kg Nickel Measured Concentration: 31.00 mg/kg	A11SE (E)	479	3	387220 399210
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 386110, 398680 Soil Sample Type: Topsoil Sample Area: Manchester Arsenic Measured Concentration: 63.00 mg/kg Cadmium Measured Concentration: 4.40 mg/kg Chromium Measured Concentration: 720.00 mg/kg Lead Measured Concentration: 2362.00 mg/kg Nickel Measured Concentration: 53.00 mg/kg	A6SW (SW)	486	3	386110 398680

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: 386210, 399650 Soil Sample Type: Topsoil Sample Area: Manchester Arsenic Measured Concentration: 16.00 mg/kg Cadmium Measured Concentration: 0.30 mg/kg Chromium Measured Concentration: 70.00 mg/kg Lead Measured Concentration: 120.00 mg/kg Nickel Measured Concentration: 23.00 mg/kg	A10NW (NW)	573	3	386210 399650
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 386860, 399870 Soil Sample Type: Topsoil Sample Area: Manchester Arsenic Measured Concentration: 41.00 mg/kg Cadmium Measured Concentration: 1.80 mg/kg Chromium Measured Concentration: 96.00 mg/kg Lead Measured Concentration: 284.00 mg/kg Nickel Measured Concentration: 42.00 mg/kg	A15SW (N)	634	3	386860 399870
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 387070, 399770 Soil Sample Type: Topsoil Sample Area: Manchester Arsenic Measured Concentration: 47.00 mg/kg Cadmium Measured Concentration: 1.40 mg/kg Chromium Measured Concentration: 205.00 mg/kg Lead Measured Concentration: 302.00 mg/kg Nickel Measured Concentration: 52.00 mg/kg	A11NE (NE)	638	3	387070 399770
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 385810, 399190 Soil Sample Type: Topsoil Sample Area: Manchester Arsenic Measured Concentration: 28.00 mg/kg Cadmium Measured Concentration: 1.60 mg/kg Chromium Measured Concentration: 120.00 mg/kg Lead Measured Concentration: 353.00 mg/kg Nickel Measured Concentration: 36.00 mg/kg	A9SE (W)	689	3	385810 399190
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 387330, 398700 Soil Sample Type: Topsoil Sample Area: Manchester Arsenic Measured Concentration: 26.00 mg/kg Cadmium Measured Concentration: 1.20 mg/kg Chromium Measured Concentration: 80.00 mg/kg Lead Measured Concentration: 179.00 mg/kg Nickel Measured Concentration: 33.00 mg/kg	A8SW (SE)	755	3	387330 398700

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: 386190, 398280 Soil Sample Type: Topsoil Sample Area: Manchester Arsenic Measured Concentration: 25.00 mg/kg Cadmium Measured Concentration: 0.70 mg/kg Chromium Measured Concentration: 76.00 mg/kg Lead Measured Concentration: 123.00 mg/kg Nickel Measured Concentration: 34.00 mg/kg	A2NW (SW)	776	3	386190 398280
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 385740, 398700 Soil Sample Type: Topsoil Sample Area: Manchester Arsenic Measured Concentration: 20.00 mg/kg Cadmium Measured Concentration: 0.80 mg/kg Chromium Measured Concentration: 88.00 mg/kg Lead Measured Concentration: 253.00 mg/kg Nickel Measured Concentration: 27.00 mg/kg	A5SE (SW)	795	3	385740 398700
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 386720, 398180 Soil Sample Type: Topsoil Sample Area: Manchester Arsenic Measured Concentration: 13.00 mg/kg Cadmium Measured Concentration: 0.30 mg/kg Chromium Measured Concentration: 79.00 mg/kg Lead Measured Concentration: 71.00 mg/kg Nickel Measured Concentration: 19.00 mg/kg	A3NW (S)	831	3	386720 398180
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 385840, 399740 Soil Sample Type: Topsoil Sample Area: Manchester Arsenic Measured Concentration: 17.00 mg/kg Cadmium Measured Concentration: 3.60 mg/kg Chromium Measured Concentration: 77.00 mg/kg Lead Measured Concentration: 143.00 mg/kg Nickel Measured Concentration: 28.00 mg/kg	A9NE (NW)	925	3	385840 399740
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 387720, 399180 Soil Sample Type: Topsoil Sample Area: Manchester Arsenic Measured Concentration: 80.00 mg/kg Cadmium Measured Concentration: 1.00 mg/kg Chromium Measured Concentration: 87.00 mg/kg Lead Measured Concentration: 426.00 mg/kg Nickel Measured Concentration: 57.00 mg/kg	A12SE (E)	979	3	387720 399180

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: 385800, 398270 Soil Sample Type: Topsoil Sample Area: Manchester Arsenic Measured Concentration: 18.00 mg/kg Cadmium Measured Concentration: 0.80 mg/kg Chromium Measured Concentration: 110.00 mg/kg Lead Measured Concentration: 196.00 mg/kg Nickel Measured Concentration: 25.00 mg/kg	A1NE (SW)	995	3	385800 398270
	BGS Urban Soil Chemistry Averages Source: British Geological Survey, National Geoscience Information Service Sample Area: Manchester Count Id: 300 Arsenic Minimum Concentration: 3.00 mg/kg Arsenic Average Concentration: 28.00 mg/kg Arsenic Maximum Concentration: 1008.00 mg/kg Cadmium Minimum Concentration: 0.30 mg/kg Cadmium Average Concentration: 1.40 mg/kg Cadmium Maximum Concentration: 80.30 mg/kg Chromium Minimum Concentration: 29.00 mg/kg Chromium Average Concentration: 92.00 mg/kg Chromium Maximum Concentration: 1252.00 mg/kg Lead Minimum Concentration: 21.00 mg/kg Lead Average Concentration: 270.00 mg/kg Lead Maximum Concentration: 2687.00 mg/kg Nickel Minimum Concentration: 6.00 mg/kg Nickel Average Concentration: 32.00 mg/kg Nickel Maximum Concentration: 137.00 mg/kg	A6NE (NW)	0	3	386604 399126
	Coal Mining Affected Areas Description: In an area which may be affected by coal mining activity. It is recommended that a coal mining report is obtained from the Coal Authority. Contact details are included in the Useful Contacts section of this report.	A6NE (NW)	0	7	386604 399126
	Mining Instability Mining Evidence: Inconclusive Coal Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	A6NE (NW)	0	-	386604 399126
	Mining Instability Mining Evidence: Inconclusive Coal Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	A6NE (S)	0	-	386604 399000
	Mining Instability Mining Evidence: Conclusive Rock Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	A6NE (S)	0	-	386604 399000
	Man-Made Mining Cavities Easting: 387200 Northing: 398500 Distance: 793 Quadrant Reference: A7 Quadrant Reference: SE Bearing Ref: SE Cavity Type: Shaft Entry Fireclay Mine Commodity: Fireclay Solid Geology Detail: Carboniferous Coal Measures Superficial Geology Detail: Glacial Till	A7SE (SE)	793	8	387200 398500

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: Very Low Source: British Geological Survey, National Geoscience Information Service	A6NE (NW)	0	3	386604 399126
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A6NE (NW)	0	3	386604 399126
	Potential for Ground Dissolution Stability Hazards No Hazard				
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A6NE (NW)	0	3	386604 399126
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A6NE (NW)	0	3	386604 399126
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A6NE (NW)	0	3	386604 399126
	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	A6NE (NW)	0	3	386604 399126
	Radon Potential - Radon Affected Areas Affected Area: The property is in a lower probability radon area, as less than 1% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	A6NE (NW)	0	3	386604 399126

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
106	**Contemporary Trade Directory Entries** Name: D C D Co Ltd Location: 256, Bradford Road, Manchester, M40 7BT Classification: Meat - Wholesale **Status: Active** Positional Accuracy: Automatically positioned to the address	A10SE (N)	42	-	386577 399249
107	**Contemporary Trade Directory Entries** Name: F Dunn & Sons Location: 222, Bradford Road, Manchester, M40 7BT Classification: Garage Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A10SE (W)	94	-	386447 399153
108	**Contemporary Trade Directory Entries** Name: Doug Priestley Transport Location: Briscoe La, Manchester, Lancashire, M40 2XG Classification: Road Haulage Services **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A11SW (NE)	168	-	386826 399366
109	**Contemporary Trade Directory Entries** Name: J B S Balers Location: 267, Sandal Street, Manchester, M40 7BB Classification: Recycling Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A10SE (NW)	179	-	386477 399346
110	**Contemporary Trade Directory Entries** Name: Robin Mills Location: Amalex House,182 Bradford Rd, Manchester, M40 7BE Classification: Textile Manufacturing **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A6NE (W)	191	-	386294 399071
110	**Contemporary Trade Directory Entries** Name: Ktec Location: 146, Bradford Road, Manchester, M40 7AS Classification: Joinery Manufacturers **Status: Active** Positional Accuracy: Automatically positioned to the address	A6NE (W)	203	-	386274 399027
111	**Contemporary Trade Directory Entries** Name: Anglo European Ltd Location: 228, Briscoe Lane, Manchester, M40 2XG Classification: Steel Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A11SW (NE)	254	-	386831 399468
111	**Contemporary Trade Directory Entries** Name: Northern Butchers Hide Markets Ltd Location: 228, Briscoe Lane, Manchester, M40 2XG Classification: Leather Merchants & Wholesalers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A11SW (NE)	254	-	386831 399468
111	**Contemporary Trade Directory Entries** Name: Anglo European Location: 228 Briscoe La, Manchester, Lancashire, M40 2XG Classification: Steel Manufacturers **Status: Active** Positional Accuracy: Manually positioned to the address or location	A11SW (NE)	254	-	386831 399467
112	**Contemporary Trade Directory Entries** Name: Philips Park Cemetery Location: Hulme Hall La, Manchester, Lancashire, M40 8HE Classification: Cemeteries & Crematoria **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A11SE (NE)	255	-	386951 399346
113	**Contemporary Trade Directory Entries** Name: N N C Contracts Hire Ltd Location: Briscoe La, Manchester, Lancashire, M40 2NL Classification: Commercial Vehicle Bodybuilders & Repairers **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A11SE (NE)	320	-	386958 399448
113	**Contemporary Trade Directory Entries** Name: North Manchester Commercials Ltd Location: Briscoe Lane, Manchester, M40 2NL Classification: Commercial Vehicle Dealers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A11NE (NE)	345	-	386956 399488

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
113	**Contemporary Trade Directory Entries** Name: North Manchester Commercials Location: Briscoe Lane, Manchester, Lancashire, M40 2NL Classification: Commercial Vehicle Dealers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A11NE (NE)	345	-	386956 399488
114	**Contemporary Trade Directory Entries** Name: Plant & Automation Ltd Location: Lord North Street, Manchester, M40 8HT Classification: Tube Bending **Status: Active** Positional Accuracy: Automatically positioned in the proximity of the address	A10NE (N)	327	-	386479 399557
114	**Contemporary Trade Directory Entries** Name: Vintage Wings & Radiators Location: Lord North Street, Manchester, M40 8HT Classification: Classic Car Specialists **Status: Active** Positional Accuracy: Automatically positioned in the proximity of the address	A10NE (N)	327	-	386479 399557
114	**Contemporary Trade Directory Entries** Name: Eyres Forgings Ltd Location: Lord North Street, Manchester, M40 8HT Classification: Engineers - General **Status: Inactive** Positional Accuracy: Automatically positioned in the proximity of the address	A10NE (N)	327	-	386479 399557
115	**Contemporary Trade Directory Entries** Name: Monarch Cartons Ltd Location: Upper Cyrus Street, Manchester, M40 7FD Classification: Boxes & Cartons **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A6SW (SW)	356	-	386213 398760
115	**Contemporary Trade Directory Entries** Name: The Van Part Centre Location: Upper Helena Street, Manchester, M40 7EQ Classification: Car Breakers & Dismantlers **Status: Inactive** Positional Accuracy: Automatically positioned in the proximity of the address	A6SW (SW)	360	-	386187 398787
116	**Contemporary Trade Directory Entries** Name: Race Location: Upper Helena Street, Manchester, Lancashire, M40 7EQ Classification: Car Breakers & Dismantlers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A6NW (SW)	358	-	386180 398798
116	**Contemporary Trade Directory Entries** Name: Just Mercedes Parts Location: Upper Helena St, Manchester, M40 7EQ Classification: Commercial Vehicle Servicing, Repairs, Parts & Accessories **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A6SW (SW)	387	-	386161 398776
116	**Contemporary Trade Directory Entries** Name: Hyde & Partners Location: Upper Helena St, Manchester, M40 7EQ Classification: Waste Disposal Services **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A6SW (SW)	397	-	386150 398774
116	**Contemporary Trade Directory Entries** Name: Duha Knitwear Ltd Location: Bengal Mill,Upper Helena St, Manchester, Lancashire, M40 7EQ Classification: Knitwear Manufacturers & Wholesalers **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A6NW (SW)	406	-	386120 398804
116	**Contemporary Trade Directory Entries** Name: Duha Knitwear Ltd Location: Bengal Mill,Upper Helena St, Manchester, Lancashire, M40 7EQ Classification: Knitwear Manufacturers & Wholesalers **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A6NW (SW)	406	-	386120 398804
116	**Contemporary Trade Directory Entries** Name: Northwest Timber Product Location: Upper Cyrus St, Manchester, Lancashire, M40 7FD Classification: Joinery Manufacturers **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A6SW (SW)	415	-	386154 398738

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
117	**Contemporary Trade Directory Entries** Name: Blue Star Auto Salvage Location: Holt Town Ind Est, Manchester, M40 7FQ Classification: Salvage Dealers **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A6SW (SW)	381	-	386236 398705
118	**Contemporary Trade Directory Entries** Name: Permanoid Ltd Location: 107, Hulme Hall Lane, Manchester, M40 8HH Classification: Cable & Wire Equipment Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A10NE (N)	391	-	386443 399611
118	**Contemporary Trade Directory Entries** Name: Fixings North West Ltd Location: 107, Hulme Hall Lane, Manchester, M40 8HH Classification: Fasteners & Fixing Devices **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A10NE (N)	391	-	386443 399611
118	**Contemporary Trade Directory Entries** Name: Permanoid Ltd Location: 107, Hulme Hall Lane, Manchester, M40 8HH Classification: Cable & Wire Equipment Manufacturers **Status: Active** Positional Accuracy: Automatically positioned to the address	A10NE (N)	391	-	386443 399611
119	**Contemporary Trade Directory Entries** Name: Alloy Bodies Ltd Location: Jubilee Works, Clifton Street, Miles Platting, Manchester, M40 8HN Classification: Commercial Vehicle Bodybuilders & Repairers **Status: Active** Positional Accuracy: Automatically positioned to the address	A11NW (N)	433	-	386754 399692
120	**Contemporary Trade Directory Entries** Name: Degussa Ltd Location: Manox House, Coleshill Street, MANCHESTER, M40 7AA Classification: Chemicals & Allied Products **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A10SW (NW)	439	-	386181 399375
121	**Contemporary Trade Directory Entries** Name: Autodeutsch Location: Providence Works,Norton St, Miles Platting, Manchester, M40 8EH Classification: Garage Services **Status: Active** Positional Accuracy: Manually positioned to the address or location	A10NE (N)	445	-	386474 399686
121	**Contemporary Trade Directory Entries** Name: Audi Only Location: Providence Works, Norton Street, Miles Platting, Manchester, M40 8EH Classification: Garage Services **Status: Inactive** Positional Accuracy: Automatically positioned in the proximity of the address	A10NE (N)	458	-	386448 399689
122	**Contemporary Trade Directory Entries** Name: Saville Whittle Ltd Location: Vickers Street, Manchester, M40 8EF Classification: Chemicals - Distributors & Wholesalers **Status: Active** Positional Accuracy: Automatically positioned to the address	A10NE (NW)	446	-	386292 399549
122	**Contemporary Trade Directory Entries** Name: T Saville-Whittle Location: Vickers Street, Manchester, M40 8EF Classification: Chemicals - Distributors & Wholesalers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A10NE (NW)	446	-	386292 399549
122	**Contemporary Trade Directory Entries** Name: Heubach (Uk) Location: Vickers Street, Manchester, M40 8EF Classification: Chemicals - Distributors & Wholesalers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A10NE (NW)	446	-	386292 399549
123	**Contemporary Trade Directory Entries** Name: Karpelle Ltd Location: Bengal Mill, Upper Helena Street, Manchester, M40 7EQ Classification: Clothing & Fabrics - Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A6NW (SW)	454	-	386063 398809

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
123	**Contemporary Trade Directory Entries** Name: J Stirling & Son Location: Union Mill, Cambrian Street, Manchester, M40 7EG Classification: Engineers - General **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A6NW (SW)	454	-	386063 398809
123	**Contemporary Trade Directory Entries** Name: Sharif & Sons Location: Bengal Mill, Upper Helena Street, Manchester, M40 7EQ Classification: Knitwear Manufacturers & Wholesalers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A6NW (SW)	454	-	386063 398809
123	**Contemporary Trade Directory Entries** Name: Manchester Vehicle Recycling Location: Cambrian St, Manchester, Lancashire, M40 7EG Classification: Car Breakers & Dismantlers **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A6SW (SW)	498	-	386028 398782
124	**Contemporary Trade Directory Entries** Name: Cloran Asphalt Ltd Location: Adswood St, Manchester, M40 7EG Classification: Asphalt & Coated Macadam Laying Contractors **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A6SW (SW)	458	-	386148 398681
124	**Contemporary Trade Directory Entries** Name: Juds Autos Location: 30 Cambrian St, Manchester, M40 7EG Classification: Car Breakers & Dismantlers **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A6SW (SW)	469	-	386158 398656
124	**Contemporary Trade Directory Entries** Name: R T S Oils Location: Cambrian St, Manchester, M40 7EG Classification: Oil Fuel Distributors **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A6SW (SW)	469	-	386125 398689
125	**Contemporary Trade Directory Entries** Name: B T Precision Engineers Ltd Location: Rowsley Street, Manchester, M11 3FF Classification: Precision Engineers **Status: Inactive** Positional Accuracy: Automatically positioned in the proximity of the address	A6SE (S)	461	-	386524 398526
126	**Contemporary Trade Directory Entries** Name: Kurpas Meats Plc Location: Manchester Abattoir, Riverpark Road, Manchester, M40 2XS Classification: Meat - Wholesale **Status: Active** Positional Accuracy: Automatically positioned to the address	A11SE (NE)	464	-	387128 399455
126	**Contemporary Trade Directory Entries** Name: 151 Products Location: Block 1,Manchester Abattoir,Riverpark Rd, Manchester, Lancashire, M40 2XP Classification: Distribution Services **Status: Inactive** Positional Accuracy: Manually positioned within the geographical locality	A11SE (NE)	476	-	387139 399462
127	**Contemporary Trade Directory Entries** Name: Medic Bath Co Ltd Location: Ashfield Works, Briscoe Lane, Manchester, M40 2XG Classification: Disability Equipment - Manufacturers & Suppliers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A11NE (NE)	465	-	387057 399555
128	**Contemporary Trade Directory Entries** Name: Dorfell Textiles Location: 50, Cambrian Street, Manchester, M40 7EG Classification: Textile Manufacturing **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A6SW (SW)	466	-	386095 398733
129	**Contemporary Trade Directory Entries** Name: J C S Pallets Location: Lord North Street, Manchester, M40 8AD Classification: Pallets, Crates & Packing Cases **Status: Active** Positional Accuracy: Automatically positioned to the address	A11NW (N)	466	-	386668 399739

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
129	**Contemporary Trade Directory Entries** Name: Princes Soft Drinks Ltd Location: Lord North Street, Manchester, M40 2HJ Classification: Soft Drinks - Manufacturers **Status: Active** Positional Accuracy: Automatically positioned to the address	A11NW (N)	466	-	386668 399739
129	**Contemporary Trade Directory Entries** Name: Clynder Cables Ltd Location: 3, Lord North Street, MANCHESTER, M40 8AD Classification: Cable & Wire Equipment Manufacturers **Status: Active** Positional Accuracy: Automatically positioned to the address	A11NW (N)	466	-	386668 399739
130	**Contemporary Trade Directory Entries** Name: Central Hydraulics (Manchester) Ltd Location: Providence Works, Norton Street, Miles Platting, Manchester, M40 8EH Classification: Hydraulic Engineers **Status: Active** Positional Accuracy: Automatically positioned to the address	A10NE (N)	471	-	386423 399691
130	**Contemporary Trade Directory Entries** Name: Clad-It Eco Roofing Solutions Ltd Location: Providence Works,Norton St, Miles Platting, Manchester, Lancashire, M40 8EH Classification: Cladding Suppliers & Installers **Status: Active** Positional Accuracy: Manually positioned within the geographical locality	A10NE (N)	471	-	386423 399691
130	**Contemporary Trade Directory Entries** Name: Feltham Hydraulics Ltd Location: Unit 6,Providence Works,Norton St, Miles Platting, Manchester, Lancashire, M40 8EH Classification: Hydraulic Equipment & Accessories - Sales & Service **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A10NE (N)	493	-	386421 399714
130	**Contemporary Trade Directory Entries** Name: Hanson Aggregates Location: Norton St, Miles Platting, Manchester, M40 8HD Classification: Concrete & Mortar Ready Mixed **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A10NE (N)	494	-	386427 399718
130	**Contemporary Trade Directory Entries** Name: Hanson Aggregates Location: Norton St, Miles Platting, Manchester, M40 8HD Classification: Concrete Manufacturers & Distributors **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A10NE (N)	494	-	386427 399718
130	**Contemporary Trade Directory Entries** Name: B S Diesels Location: Norton St, Miles Platting, Manchester, M40 8HD Classification: Commercial Vehicle Servicing, Repairs, Parts & Accessories **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A10NE (N)	499	-	386444 399732
131	**Contemporary Trade Directory Entries** Name: Textino Location: Hulme Hall Lane, Manchester, M40 8YD Classification: Cleaning Materials & Equipment **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A10NE (NW)	478	-	386354 399654
131	**Contemporary Trade Directory Entries** Name: Withers & Bolton Location: Hulme Hall Lane, Manchester, M40 8YD Classification: Hardware **Status: Active** Positional Accuracy: Automatically positioned to the address	A10NE (NW)	478	-	386354 399654
132	**Contemporary Trade Directory Entries** Name: Connect Engineering Ltd Location: Unit 10, Edwin Road, Manchester, M11 3ER Classification: Engineers - General **Status: Active** Positional Accuracy: Automatically positioned to the address	A6SE (S)	482	-	386421 398517

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
133	**Contemporary Trade Directory Entries** Name: Northern Optical Co Ltd Location: 1, Edwin Road, Manchester, M11 3NQ Classification: Optical Goods - Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A6SE (SW)	489	-	386349 398529
133	**Contemporary Trade Directory Entries** Name: J M Clayton Location: 3, Edwin Road, Manchester, Lancashire, M11 3ER Classification: Textile Manufacturing **Status: Active** Positional Accuracy: Manually positioned to the address or location	A6SE (SW)	520	-	386334 398501
133	**Contemporary Trade Directory Entries** Name: Shulzer Pomps (Manchester) Location: Edwin Road, Manchester, M11 3ER Classification: Precision Engineers **Status: Inactive** Positional Accuracy: Automatically positioned in the proximity of the address	A6SE (S)	532	-	386371 398479
133	**Contemporary Trade Directory Entries** Name: I C A Distribution Ltd Location: Edwin Road, Manchester, M11 3ER Classification: Electrical Engineers **Status: Inactive** Positional Accuracy: Automatically positioned in the proximity of the address	A6SE (S)	532	-	386371 398479
134	**Contemporary Trade Directory Entries** Name: Manchester Crane Hire Location: Norton St, Miles Platting, Manchester, M40 8HD Classification: Crane Hire, Sales & Service **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A10NE (N)	500	-	386451 399736
134	**Contemporary Trade Directory Entries** Name: Nortons Hiab Services Ltd Location: Norton St, Miles Platting, Manchester, M40 8HD Classification: Road Haulage Services **Status: Active** Positional Accuracy: Manually positioned to the road within the address or location	A10NE (N)	505	-	386464 399746
135	**Contemporary Trade Directory Entries** Name: Helping Hands Group Plc Location: Media Playground, 19, Lind Street, Manchester, M40 7ES Classification: Recycling Centres **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A6SW (SW)	508	-	386081 398681
136	**Contemporary Trade Directory Entries** Name: Noone Motors Location: Holt Town Industrial Estate, Manchester, M40 7FQ Classification: Car Body Repairs **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A6SW (SW)	519	-	386161 398588
136	**Contemporary Trade Directory Entries** Name: P Noone Motors Location: Holt Town Industrial Estate, Manchester, M40 7FQ Classification: Car Body Repairs **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A6SW (SW)	519	-	386161 398588
137	**Contemporary Trade Directory Entries** Name: Pelican Press Location: 20, Pollard Street East, Manchester, M40 7ET Classification: Printers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A6SW (SW)	521	-	386030 398730
137	**Contemporary Trade Directory Entries** Name: Pelican Press Location: 20, Pollard Street East, Manchester, M40 7ET Classification: Printers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A6SW (SW)	521	-	386030 398730
137	**Contemporary Trade Directory Entries** Name: Pelican Press Location: 20, Pollard Street East, MANCHESTER, M40 7ET Classification: Printers **Status: Active** Positional Accuracy: Automatically positioned to the address	A6SW (SW)	521	-	386030 398730

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
138	**Contemporary Trade Directory Entries** Name: Grahams Location: Vickers St, Manchester, Lancashire, M40 8PU Classification: Packaging Materials Manufacturers & Suppliers **Status: Active** Positional Accuracy: Manually positioned within the geographical locality	A10NW (NW)	524	-	386225 399590
138	**Contemporary Trade Directory Entries** Name: Duo Plastics Ltd Location: Vickers Street, Manchester, M40 8PU Classification: Polythene & Plastic Sheeting Supplies **Status: Active** Positional Accuracy: Automatically positioned to the address	A10NW (NW)	524	-	386225 399590
139	**Contemporary Trade Directory Entries** Name: Hall & Rogers Ltd Location: Hillkirk Street, Manchester, M11 3EZ Classification: Builders' Merchants **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A6SW (SW)	545	-	386216 398522
140	**Contemporary Trade Directory Entries** Name: Coldchase Foods Ltd Location: Manchester Abattoir, Riverpark Road, Manchester, M40 2XT Classification: Meat - Wholesale **Status: Active** Positional Accuracy: Automatically positioned to the address	A11SE (NE)	552	-	387238 399442
140	**Contemporary Trade Directory Entries** Name: Riverpark Press Location: Manchester Abattoir,Riverpark Rd, Manchester, Lancashire, M40 2XP Classification: Printers **Status: Active** Positional Accuracy: Manually positioned within the geographical locality	A11SE (NE)	584	-	387281 399422
141	**Contemporary Trade Directory Entries** Name: K H C Location: Branson Court,Branson St, Manchester, Lancashire, M40 7FP Classification: Commercial Cleaning Services **Status: Inactive** Positional Accuracy: Manually positioned within the geographical locality	A6SW (SW)	557	-	386035 398660
141	**Contemporary Trade Directory Entries** Name: Benecare Medical Location: Unit 1, Branson Court, Branson Street, Manchester, M40 7FP Classification: Medical Equipment Maintenance & Repairs **Status: Active** Positional Accuracy: Automatically positioned to the address	A6SW (SW)	563	-	386022 398668
141	**Contemporary Trade Directory Entries** Name: Benefoot (Uk) Ltd Location: Unit 2/3, Branson Court, Branson Street, Manchester, M40 7FP Classification: Medical Equipment Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A6SW (SW)	563	-	386042 398642
141	**Contemporary Trade Directory Entries** Name: Benefoot Location: Unit 1, Branson Court, Branson Street, Manchester, M40 7FP Classification: Medical Equipment Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A6SW (SW)	563	-	386022 398668
141	**Contemporary Trade Directory Entries** Name: Benefoot Location: Unit 1, Branson Court, Branson Street, Manchester, M40 7FP Classification: Medical Equipment Maintenance & Repairs **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A6SW (SW)	563	-	386022 398668
142	**Contemporary Trade Directory Entries** Name: P C Northern Ltd Location: 6-8, Hillkirk Street, Manchester, Lancashire, M11 3EZ Classification: Hydraulic Engineers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A6SE (SW)	562	-	386274 398477
142	**Contemporary Trade Directory Entries** Name: Manchester Fluid Power Location: 6-8, Hillkirk Street, Manchester, Lancashire, M11 3EZ Classification: Hydraulic Systems & Equipment Manufacturers **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A6SE (SW)	562	-	386274 398477

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
143	**Contemporary Trade Directory Entries** Name: Evans Print Ltd Location: Unit 1, Dale House, Vickers Street, Manchester, M40 8EF Classification: T-Shirts **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A10NW (NW)	575	-	386097 399495
143	**Contemporary Trade Directory Entries** Name: Bitz & Pieces Location: Unit 24, Dale House, Vickers Street, Manchester, M40 8EF Classification: Textile Manufacturing **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A10NW (NW)	575	-	386097 399495
143	**Contemporary Trade Directory Entries** Name: G H Plastics Ltd Location: Unit 8, Vickers Street, Manchester, M40 8EF Classification: Polythene & Plastic Sheeting Supplies **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A10NW (NW)	575	-	386097 399495
143	**Contemporary Trade Directory Entries** Name: W T Matthews Location: Unit 3, Dale House, Vickers Street, Manchester, M40 8EF Classification: Clothing & Fabrics - Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A10NW (NW)	575	-	386097 399495
143	**Contemporary Trade Directory Entries** Name: S & A Motors Location: Unit 5, Dale House, Vickers Street, Manchester, M40 8EF Classification: Garage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A10NW (NW)	575	-	386097 399495
143	**Contemporary Trade Directory Entries** Name: S A S Recovery Location: Unit 2, Dale House, Vickers Street, Manchester, M40 8EF Classification: Car Breakdown & Recovery Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A10NW (NW)	575	-	386097 399495
144	**Contemporary Trade Directory Entries** Name: Mercedes-Benz Location: Ashton New Road, Manchester, M11 3RR Classification: Car Dealers **Status: Active** Positional Accuracy: Automatically positioned to the address	A2NE (S)	577	-	386510 398411
144	**Contemporary Trade Directory Entries** Name: Mercedes Benz Body Service Location: Ashton New Road, Manchester, M11 3RR Classification: Car Body Repairs **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A2NE (S)	577	-	386510 398411
145	**Contemporary Trade Directory Entries** Name: Northwest Auto Care Location: 12, Bradford Road, Manchester, M40 7EZ Classification: Garage Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A5NE (SW)	581	-	385929 398803
145	**Contemporary Trade Directory Entries** Name: Notorious Location: Bradford Rd, Manchester, Lancashire, M40 7EZ Classification: T-Shirts **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A5NE (SW)	586	-	385921 398812
145	**Contemporary Trade Directory Entries** Name: J J Plastics Location: 12a, Bradford Road, Manchester, M40 7EZ Classification: Recycling Centres **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A5SE (SW)	592	-	385925 398785
146	**Contemporary Trade Directory Entries** Name: Norton Services Ltd Location: Norton Street, Miles Platting, Manchester, M40 8HD Classification: Freight Forwarders **Status: Active** Positional Accuracy: Automatically positioned to the address	A14SE (N)	584	-	386419 399814

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
146	**Contemporary Trade Directory Entries** Name: K S L Crane Hire Location: Norton Street, Miles Platting, Manchester, Lancashire, M40 8HD Classification: Crane Hire, Sales & Service **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14SE (N)	584	-	386419 399814
147	**Contemporary Trade Directory Entries** Name: A Maffei & Sons Location: Pollard Street East, Manchester, M40 7FS Classification: Grinding Equipment & Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A6SW (SW)	595	-	385975 398679
147	**Contemporary Trade Directory Entries** Name: Air Liquide Uk Ltd Location: 15 Pollard St East, Manchester, Lancashire, M40 7FS Classification: Gas - Industrial & Medical Suppliers **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A6SW (SW)	624	-	385936 398687
147	**Contemporary Trade Directory Entries** Name: Air Liquide (Uk) Ltd Location: 15, Pollard Street East, Manchester, M40 7FT Classification: Gas - Industrial & Medical Suppliers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A6SW (SW)	627	-	385933 398686
147	**Contemporary Trade Directory Entries** Name: Air Liquide Uk Ltd Location: 15, Pollard Street East, Manchester, Lancashire, M40 7FT Classification: Gas - Industrial & Medical Suppliers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A6SW (SW)	627	-	385933 398686
148	**Contemporary Trade Directory Entries** Name: Project Set Ltd Location: Cyrus Street, Manchester, Lancashire, M40 7FG Classification: Precision Engineers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A6SW (SW)	603	-	386016 398610
148	**Contemporary Trade Directory Entries** Name: V J Tilbrook & Son Location: 4, Cavalier Street, Manchester, M40 7FE Classification: Car Body Repairs **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A6SW (SW)	629	-	386012 398576
148	**Contemporary Trade Directory Entries** Name: T Shaw & Son Ltd Location: Holt Town Industrial Estate, Manchester, Lancashire, M40 7FQ Classification: Sheet Metal Work **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A6SW (SW)	656	-	385997 398552
149	**Contemporary Trade Directory Entries** Name: Karpelle Ltd Location: Unit 1, Varley Business Centre, James Street, Manchester, M40 8EL Classification: Clothing & Fabrics - Manufacturers **Status: Active** Positional Accuracy: Automatically positioned to the address	A10SW (NW)	608	-	385986 399387
150	**Contemporary Trade Directory Entries** Name: Pennine Meats Location: Manchester Abattoir,Riverpark Ind Est,Riverpark Rd, Manchester, Lancashire, M40 2XP Classification: Meat - Wholesale **Status: Inactive** Positional Accuracy: Manually positioned within the geographical locality	A12SW (NE)	627	-	387318 399446
150	**Contemporary Trade Directory Entries** Name: Harvey Ashworth (Manchester) Ltd Location: Manchester Abattoir,Riverpark Rd, Manchester, M40 2XR Classification: Meat - Wholesale **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A12SW (NE)	673	-	387364 399456

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
150	**Contemporary Trade Directory Entries** Name: Robert Edward Location: Manchester Abattoir,Riverpark Rd, Manchester, Lancashire, M40 2XP Classification: Food Products - Manufacturers **Status: Inactive** Positional Accuracy: Manually positioned within the geographical locality	A12SW (NE)	673	-	387364 399456
150	**Contemporary Trade Directory Entries** Name: Anthony Burns Ltd Location: Manchester Abattoir, Riverpark Road, Manchester, Lancashire, M40 2XP Classification: Meat - Wholesale **Status: Active** Positional Accuracy: Automatically positioned to the address	A12SW (NE)	674	-	387365 399456
150	**Contemporary Trade Directory Entries** Name: Choice Game Ltd Location: Manchester Abattoir, Riverpark Road, Manchester, M40 2XR Classification: Meat - Wholesale **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12SW (NE)	674	-	387365 399456
150	**Contemporary Trade Directory Entries** Name: Samuel Howarth Location: Manchester Abattoir, Riverpark Road, Manchester, M40 2XP Classification: Meat - Wholesale **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12SW (NE)	674	-	387365 399456
150	**Contemporary Trade Directory Entries** Name: Choice Game Location: Manchester Abattoir, Riverpark Road, Manchester, M40 2XR Classification: Meat - Wholesale **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12SW (NE)	674	-	387365 399456
150	**Contemporary Trade Directory Entries** Name: Kurpas Meats Location: Manchester Abattoir, Riverpark Road, Manchester, M40 2XS Classification: Meat - Wholesale **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12SW (NE)	674	-	387365 399456
150	**Contemporary Trade Directory Entries** Name: T Ritchie C & E Ltd Location: Manchester Abattoir, Riverpark Road, Manchester, Lancashire, M40 2XS Classification: Meat - Wholesale **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12SW (NE)	674	-	387365 399456
150	**Contemporary Trade Directory Entries** Name: United Cattle Products Ltd Location: Manchester Abattoir, Riverpark Road, Manchester, Lancashire, M40 2XS Classification: Meat - Wholesale **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12SW (NE)	674	-	387365 399456
150	**Contemporary Trade Directory Entries** Name: Mont Blanc Location: Manchester Abattoir, Riverpark Road, Manchester, M40 2XP Classification: Road Haulage Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A12SW (NE)	674	-	387365 399456
150	**Contemporary Trade Directory Entries** Name: Hanson Business Support Uk Ltd Location: Manchester Abattoir,Riverpark Rd, Manchester, Lancashire, M40 2XP Classification: Commercial Cleaning Services **Status: Active** Positional Accuracy: Manually positioned within the geographical locality	A12SW (NE)	674	-	387365 399456
150	**Contemporary Trade Directory Entries** Name: Hanson Business Support Uk Ltd Location: Riverpark Rd, Manchester, Lancashire, M40 2XP Classification: Commercial Cleaning Services **Status: Inactive** Positional Accuracy: Manually positioned within the geographical locality	A12SW (NE)	674	-	387365 399456
150	**Contemporary Trade Directory Entries** Name: Northern Optical Location: Unit 8,9,Riverpark Rd, Manchester, Lancashire, M40 2XP Classification: Optical Goods - Manufacturers **Status: Active** Positional Accuracy: Manually positioned within the geographical locality	A12SW (NE)	674	-	387365 399456

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
150	**Contemporary Trade Directory Entries** Name: Kosmo Services Location: Manchester Abattoir,Riverpark Rd, Manchester, Lancashire, M40 2XP Classification: Commercial Cleaning Services **Status: Active** Positional Accuracy: Manually positioned within the geographical locality	A12SW (NE)	674	-	387365 399456
151	**Contemporary Trade Directory Entries** Name: Asaka Computer Systems Location: Riverpark Rd, Manchester, Lancashire, M40 2XP Classification: Computer Manufacturers **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A12SW (E)	638	-	387352 399384
151	**Contemporary Trade Directory Entries** Name: David Audley Ltd Location: Manchester Abattoir,Riverpark Rd, Manchester, M40 2XT Classification: Pet Foods & Animal Feeds **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A12SW (E)	654	-	387369 399384
152	**Contemporary Trade Directory Entries** Name: Mercedes Benz & Smart Location: Ashton New Rd, Manchester, Lancashire, M11 3RR Classification: Car Dealers **Status: Active** Positional Accuracy: Manually positioned to the road within the address or location	A2NE (S)	639	-	386527 398348
153	**Contemporary Trade Directory Entries** Name: Talal Location: Wallington Mill,Pollard St East, Manchester, M40 7FS Classification: Clothing & Fabrics - Manufacturers **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A5SE (SW)	640	-	385930 398666
154	**Contemporary Trade Directory Entries** Name: N S Medical Systems Location: Unit 96,Cariocca Business Pk,Sawley Rd, Miles Platting, Manchester, Lancashire, M40 8BB Classification: Medical Equipment Maintenance & Repairs **Status: Active** Positional Accuracy: Manually positioned within the geographical locality	A10SW (NW)	648	-	385979 399452
154	**Contemporary Trade Directory Entries** Name: G S F Contract Cleaning Location: Unit 4, Cariocca Business Park, Sawley Road, Miles Platting, Manchester, M40 8BB Classification: Commercial Cleaning Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A10SW (NW)	648	-	385979 399452
154	**Contemporary Trade Directory Entries** Name: Regional Electricity Advisory Centre Location: Unit 53, Cariocca Business Park, Sawley Road, Miles Platting, Manchester, M40 8BB Classification: Electricity Companies **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A10SW (NW)	648	-	385979 399452
154	**Contemporary Trade Directory Entries** Name: Global Electrical & Communications Ltd Location: Unit 45, Cariocca Business Park, Sawley Road, Miles Platting, Manchester, M40 8BB Classification: Telecommunications Equipment & Systems **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A10SW (NW)	648	-	385979 399452
154	**Contemporary Trade Directory Entries** Name: Model System Solutions Location: Cariocca Business Pk,Sawley Rd, Miles Platting, Manchester, Lancashire, M40 8BB Classification: Engineering Services **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A10SW (NW)	648	-	385979 399452
154	**Contemporary Trade Directory Entries** Name: C E N Botteling Co Ltd Location: Unit 65, Cariocca Business Park, Sawley Road, Miles Platting, Manchester, Lancashire, M40 8BB Classification: Soft Drinks - Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A10SW (NW)	648	-	385979 399452

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
154	**Contemporary Trade Directory Entries** Name: Classic Knitwear Ltd Location: Unit 31, Cariocca Business Park, Sawley Road, Miles Platting, Manchester, Lancashire, M40 8BB Classification: Knitwear Manufacturers & Wholesalers **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A10SW (NW)	648	-	385979 399452
154	**Contemporary Trade Directory Entries** Name: Vianlee Ltd Location: Unit 29, Cariocca Business Park, Sawley Road, Miles Platting, Manchester, M40 8BB Classification: Commercial Cleaning Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A10SW (NW)	648	-	385979 399452
154	**Contemporary Trade Directory Entries** Name: Apple Enterprise International Location: Unit 71, Cariocca Business Park, Sawley Road, Miles Platting, Manchester, M40 8BB Classification: Electrical Goods Sales, Manufacturers & Wholesalers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A10SW (NW)	648	-	385979 399452
154	**Contemporary Trade Directory Entries** Name: Smart Puls Location: Unit 39, Cariocca Business Park, Sawley Road, Miles Platting, Manchester, M40 8BB Classification: Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A10SW (NW)	648	-	385979 399452
154	**Contemporary Trade Directory Entries** Name: D S M Enterprise Location: Unit 28, Cariocca Business Park, Sawley Road, Miles Platting, Manchester, M40 8BB Classification: Electrical Goods Sales, Manufacturers & Wholesalers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A10SW (NW)	648	-	385979 399452
154	**Contemporary Trade Directory Entries** Name: Ultrade Location: Unit 39, Cariocca Business Park, Sawley Road, Miles Platting, Manchester, M40 8BB Classification: Electrolysis **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A10SW (NW)	648	-	385979 399452
154	**Contemporary Trade Directory Entries** Name: Jk Cars Location: Unit 34, Cariocca Business Park, Sawley Road, Miles Platting, Manchester, Lancashire, M40 8BB Classification: Car Dealers - Used **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A10SW (NW)	648	-	385979 399452
154	**Contemporary Trade Directory Entries** Name: Flirtatious Lingerie Location: Cariocca Business Pk,Sawley Rd, Miles Platting, Manchester, Lancashire, M40 8BB Classification: Lingerie & Hosiery Manufacturers & Wholesalers **Status: Inactive** Positional Accuracy: Manually positioned within the geographical locality	A10SW (NW)	648	-	385979 399452
154	**Contemporary Trade Directory Entries** Name: Klyvinnd Location: Unit 59, Cariocca Business Park, Sawley Road, Miles Platting, Manchester, M40 8BB Classification: Commercial Cleaning Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A10SW (NW)	648	-	385979 399452
154	**Contemporary Trade Directory Entries** Name: Castle Comfort Stairlifts Ltd Location: Unit 49, Cariocca Business Park, Sawley Road, Miles Platting, Manchester, M40 8BB Classification: Stairlifts - Manufacturers & Installers **Status: Active** Positional Accuracy: Automatically positioned to the address	A10SW (NW)	648	-	385979 399452

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
154	**Contemporary Trade Directory Entries** Name: Bioeurope Location: Unit 64, Cariocca Business Park, Sawley Road, Miles Platting, Manchester, M40 8BB Classification: Pharmaceutical Manufacturers & Distributors **Status: Active** Positional Accuracy: Automatically positioned to the address	A10SW (NW)	648	-	385979 399452
154	**Contemporary Trade Directory Entries** Name: A 2 Z Freight Services Location: Unit 77,Cariocca Business Pk,Sawley Rd, Miles Platting, Manchester, Lancashire, M40 8BB Classification: Freight Forwarders **Status: Active** Positional Accuracy: Manually positioned within the geographical locality	A10SW (NW)	648	-	385983 399458
154	**Contemporary Trade Directory Entries** Name: Oilpro Uk Ltd Location: Unit 105,Cariocca Business Pk,Sawley Rd, Miles Platting, Manchester, Lancashire, M40 8BB Classification: Garage Equipment **Status: Active** Positional Accuracy: Manually positioned to the address or location	A10SW (NW)	649	-	385981 399456
155	**Contemporary Trade Directory Entries** Name: Grace Motor Engineers Location: Chapter Street, Manchester, Lancashire, M40 2AY Classification: Commercial Vehicle Servicing, Repairs, Parts & Accessories **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14SE (N)	649	-	386573 399919
156	**Contemporary Trade Directory Entries** Name: Dreamtex Location: Brunswick Mill, Bradford Road, Manchester, Lancashire, M40 7EZ Classification: Textile Manufacturing **Status: Active** Positional Accuracy: Automatically positioned to the address	A5SE (SW)	683	-	385856 398714
156	**Contemporary Trade Directory Entries** Name: New Life Windows Location: Brunswick Mill, Bradford Road, Manchester, Lancashire, M40 7EZ Classification: PVC-U Products - Manufacturers & Suppliers **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A5SE (SW)	683	-	385856 398714
156	**Contemporary Trade Directory Entries** Name: J K Halpern Location: Brunswick Mill, Bradford Road, Manchester, Lancashire, M40 7EZ Classification: Textile Manufacturing **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A5SE (SW)	683	-	385856 398714
157	**Contemporary Trade Directory Entries** Name: Ace Cutting Services Location: Pollard St East, Manchester, Lancashire, M40 7FS Classification: Clothing & Fabrics - Manufacturers **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A5SE (SW)	691	-	385894 398628
157	**Contemporary Trade Directory Entries** Name: Fibre Glass Technology Location: Wellington House, Pollard Street East, Manchester, M40 7FS Classification: Glass Fibre Moulding, Materials & Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A5SE (SW)	695	-	385872 398656
157	**Contemporary Trade Directory Entries** Name: Castle Garments Location: Wellington House, Pollard Street East, Manchester, M40 7FS Classification: Clothing & Fabrics - Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A5SE (SW)	695	-	385872 398656
157	**Contemporary Trade Directory Entries** Name: Flying T-Shirts Location: Wellington House, Pollard Street East, Manchester, Lancashire, M40 7FS Classification: T-Shirts **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A5SE (SW)	695	-	385872 398656

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
157	**Contemporary Trade Directory Entries** Name: Bsh Transit Cases Location: Wellington House, Pollard Street East, Manchester, Lancashire, M40 7FS Classification: Case Manufacturers **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A5SE (SW)	695	-	385872 398656
157	**Contemporary Trade Directory Entries** Name: Bcm Services Ltd Location: Unit 4,Wellington House,Pollard St East, Manchester, Lancashire, M40 7FS Classification: Commercial Cleaning Services **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A5SE (SW)	695	-	385872 398656
157	**Contemporary Trade Directory Entries** Name: Adil Motor Body Repairs Location: Wellington House, Pollard Street East, Manchester, M40 7FS Classification: Car Body Repairs **Status: Active** Positional Accuracy: Automatically positioned to the address	A5SE (SW)	695	-	385872 398656
158	**Contemporary Trade Directory Entries** Name: Azura Location: Chapter St, Manchester, M40 2AY Classification: Soft Furnishings - Manufacturers **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A15SW (N)	711	-	386619 399985
159	**Contemporary Trade Directory Entries** Name: Modern Waste Recycling Ltd Location: Hillbit House, New Street, Manchester, M40 8AW Classification: Recycling Centres **Status: Active** Positional Accuracy: Automatically positioned to the address	A14SE (N)	726	-	386308 399919
159	**Contemporary Trade Directory Entries** Name: Boiler House Supplies Location: Hillbit House, New Street, Manchester, M40 8AW Classification: Boilers - Servicing, Replacements & Repairs **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14SE (N)	726	-	386308 399919
159	**Contemporary Trade Directory Entries** Name: Worldwide Waste Management Ltd Location: Unit 1,Hillbit House,New St, Manchester, Lancashire, M40 8AW Classification: Recycling Centres **Status: Active** Positional Accuracy: Manually positioned within the geographical locality	A14SE (N)	727	-	386308 399919
159	**Contemporary Trade Directory Entries** Name: Majid Bros Plant Location: Hillbit House, New Street, Manchester, Lancashire, M40 8AW Classification: Machinery - Industrial & Commercial **Status: Active** Positional Accuracy: Manually positioned to the address or location	A14SE (N)	727	-	386308 399919
160	**Contemporary Trade Directory Entries** Name: European Metal Recycling Location: Irlam Street, MANCHESTER, M40 2BP Classification: Recycling Centres **Status: Active** Positional Accuracy: Automatically positioned to the address	A14SE (N)	748	-	386471 400002
160	**Contemporary Trade Directory Entries** Name: Addax Products Location: 36, Irlam Street, Manchester, M40 2BW Classification: Stationery Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14SE (N)	758	-	386490 400017
161	**Contemporary Trade Directory Entries** Name: K M H Printers Location: Chapter Street, Manchester, Lancashire, M40 2AY Classification: Printers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A15SW (N)	752	-	386695 400024
162	**Contemporary Trade Directory Entries** Name: R Mobile Mechanic Location: 19, Lifton Avenue, Manchester, M40 8DD Classification: Garage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A10NW (NW)	755	-	386029 399713

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
163	**Contemporary Trade Directory Entries** Name: Marks Bros Location: Brunswick Mill, Bradford Road, Manchester, Lancashire, M40 7EZ Classification: Plastics - Welding **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A5SE (SW)	765	-	385783 398676
163	**Contemporary Trade Directory Entries** Name: New Venture Print Ltd Location: Brunswick Mill, Bradford Road, Manchester, Lancashire, M40 7EZ Classification: Printers **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A5SE (SW)	765	-	385783 398676
163	**Contemporary Trade Directory Entries** Name: Q & R Ladies Dressmakers Location: Brunswick Mill, Bradford Road, Manchester, Lancashire, M40 7EZ Classification: Clothing & Fabrics - Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A5SE (SW)	765	-	385783 398676
164	**Contemporary Trade Directory Entries** Name: Hadfields Ltd Location: Harden Works, Oldham Road, Manchester, M40 8AG Classification: Road Haulage Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A14SW (NW)	794	-	386186 399923
164	**Contemporary Trade Directory Entries** Name: T P Metcalfe Location: Harden Works, Oldham Road, Manchester, Lancashire, M40 8AG Classification: Commercial Vehicle Servicing, Repairs, Parts & Accessories **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A14SW (NW)	794	-	386186 399923
165	**Contemporary Trade Directory Entries** Name: Business & Office Machine Services Ltd Location: The Bank, 209, Every Street, Manchester, M4 7EX Classification: Photocopiers **Status: Active** Positional Accuracy: Automatically positioned to the address	A1NE (SW)	795	-	385911 398441
166	**Contemporary Trade Directory Entries** Name: Crawford Commercials Location: 497 A Oldham Rd, Manchester, Lancashire, M40 5AA Classification: Commercial Vehicle Breakdown & Recovery Services **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A14SE (N)	814	-	386282 400004
167	**Contemporary Trade Directory Entries** Name: Johnson & Scott Refrigeration Location: 497 Oldham Rd, Manchester, M40 5AA Classification: Refrigeration Equipment - Commercial **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A14SW (NW)	815	-	386235 399980
167	**Contemporary Trade Directory Entries** Name: Johnson & Scott Location: 497 Oldham Rd, Manchester, M40 5AA Classification: Air Conditioning & Refrigeration Contractors **Status: Active** Positional Accuracy: Manually positioned to the road within the address or location	A14SW (NW)	815	-	386236 399980
168	**Contemporary Trade Directory Entries** Name: Express Wholesale (Diy) Ltd Location: Pollard St, Manchester, M4 7JB Classification: Hardware **Status: Active** Positional Accuracy: Manually positioned to the road within the address or location	A5SE (SW)	818	-	385806 398530
169	**Contemporary Trade Directory Entries** Name: S B Motorbodies (Mc) Ltd Location: 2a Bower Street, Manchester, Lancashire, M40 2AF Classification: Garage Services **Status: Active** Positional Accuracy: Manually positioned to the address or location	A15SW (N)	846	-	386879 400086
169	**Contemporary Trade Directory Entries** Name: Maltech Location: 4, Riley Street, Stockton-on-Tees, Cleveland, TS18 4AD Classification: Garage Services **Status: Active** Positional Accuracy: Manually positioned to the address or location	A15SW (N)	846	-	386879 400086

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
169	**Contemporary Trade Directory Entries** Name: Manchester Drums Location: Bower Street, Newton Heath, Manchester, M40 2AF Classification: Drums, Kegs, Barrels & Casks **Status: Active** Positional Accuracy: Automatically positioned in the proximity of the address	A15SW (N)	893	-	386884 400133
169	**Contemporary Trade Directory Entries** Name: Drummer Boy Trading Co Ltd Location: Bower Street, Newton Heath, Manchester, M40 2AF Classification: Drums, Kegs, Barrels & Casks **Status: Inactive** Positional Accuracy: Automatically positioned in the proximity of the address	A15SW (N)	893	-	386884 400133
170	**Contemporary Trade Directory Entries** Name: Fine Castings Ltd Location: 800, Oldham Road, Manchester, M40 2AB Classification: Fireplaces & Mantelpieces **Status: Active** Positional Accuracy: Automatically positioned to the address	A14SE (N)	847	-	386540 400115
171	**Contemporary Trade Directory Entries** Name: Beckford Street Location: Unit 16,Beckford St, Manchester, M40 5AE Classification: Tyre Dealers **Status: Active** Positional Accuracy: Manually positioned to the road within the address or location	A14SE (N)	848	-	386346 400068
171	**Contemporary Trade Directory Entries** Name: Jewson Ltd Location: Beckford Street, Manchester, M40 5AJ Classification: Builders' Merchants **Status: Active** Positional Accuracy: Automatically positioned to the address	A14SE (N)	855	-	386373 400086
171	**Contemporary Trade Directory Entries** Name: Jewson Ltd Location: Beckford Street, MANCHESTER, M40 5AJ Classification: Builders' Merchants **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14SE (N)	855	-	386373 400086
171	**Contemporary Trade Directory Entries** Name: Unit 6 Auto Location: Unit 6,Beckford St, Manchester, M40 5AE Classification: Garage Services **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A14SE (N)	865	-	386338 400084
171	**Contemporary Trade Directory Entries** Name: Manchester Safety Towers Location: Beckford St, Manchester, M40 5AE Classification: Scaffolding & Work Platforms **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A14SE (N)	867	-	386337 400085
171	**Contemporary Trade Directory Entries** Name: Manchester Safety Tower Sales Location: 2 Beckford St, Manchester, M40 5AE Classification: Scaffolding & Work Platforms **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A14SE (N)	868	-	386336 400086
172	**Contemporary Trade Directory Entries** Name: R W Frames Location: 10, Piercy Street, Manchester, M4 6FB Classification: Furniture Manufacturers - Home & Office **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A5SE (SW)	859	-	385718 398596
172	**Contemporary Trade Directory Entries** Name: K J Goldstraw & Sons Location: 10, Piercy Street, Manchester, M4 6FB Classification: Road Haulage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A5SE (SW)	859	-	385718 398596
172	**Contemporary Trade Directory Entries** Name: Haji & Co Location: 10, Piercy Street, Manchester, M4 6FB Classification: Textile Manufacturing **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A5SE (SW)	859	-	385718 398596

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
172	**Contemporary Trade Directory Entries** Name: Frames R W Location: Stubbs Mill,Piercy St, Ancoates, Manchester, Lancs, SK4 1QE Classification: Furniture Manufacturers - Home & Office **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A5SE (SW)	860	-	385717 398596
173	**Contemporary Trade Directory Entries** Name: Manchester Steam Clean Location: Lloydfield Mill, Mellor Street, Manchester, M40 7JW Classification: Steam Cleaning Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A5NE (W)	875	-	385601 399034
174	**Contemporary Trade Directory Entries** Name: Monsal Service Station Location: 571, Oldham Road, Manchester, M40 5AF Classification: Petrol Filling Stations - 24 Hour **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14NE (N)	883	-	386495 400145
175	**Contemporary Trade Directory Entries** Name: Tyco Control Systems Ltd Location: Wormald Park, Grimshaw Lane, Manchester, M40 2WL Classification: Automation Systems & Equipment **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A15NW (N)	895	-	386679 400168
175	**Contemporary Trade Directory Entries** Name: Wormald Fire Systems Location: Wormald Park, Grimshaw Lane, Manchester, M40 2WL Classification: Firefighting Equipment **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A15NW (N)	895	-	386679 400168
176	**Contemporary Trade Directory Entries** Name: Multiblend Chemicals Ltd Location: 495, Oldham Road, Manchester, M40 5AA Classification: Chemicals & Allied Products **Status: Active** Positional Accuracy: Automatically positioned to the address	A14SW (N)	900	-	386242 400080
177	**Contemporary Trade Directory Entries** Name: Sheridan Knitwear Location: Ground Floor, 371, Oldham Road, Manchester, M40 8EA Classification: Clothing & Fabrics - Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14SW (NW)	901	-	385977 399882
178	**Contemporary Trade Directory Entries** Name: Crescent Motors Location: 17, Beckford Street, Manchester, M40 5AE Classification: Garage Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A14NE (N)	921	-	386342 400145
179	**Contemporary Trade Directory Entries** Name: Decorative Designs Location: 239-241, Briscoe Lane, Manchester, M40 2ST Classification: Stained Glass Designers & Producers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12NW (NE)	928	-	387468 399782
179	**Contemporary Trade Directory Entries** Name: James Lucas Ltd Location: 239-241, Briscoe Lane, Manchester, M40 2ST Classification: Bacon & Ham Curers & Merchants **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12NW (NE)	928	-	387468 399782
180	**Contemporary Trade Directory Entries** Name: Welding Engineers (Mersey) Ltd Location: Unit 2, Navigation Trading Estate, Bower Street, Newton Heath, Manchester, M40 2AR Classification: Door Manufacturers - Industrial **Status: Active** Positional Accuracy: Automatically positioned to the address	A15SE (N)	930	-	386977 400142

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
181	**Contemporary Trade Directory Entries** Name: Ob Truck Services Location: Quinn Street, Manchester, M11 4AE Classification: Commercial Vehicle Breakdown & Recovery Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A3NE (SE)	967	-	387264 398329
182	**Contemporary Trade Directory Entries** Name: Paramount Belts Location: Oldham Rd, Manchester, M40 7PS Classification: Bags, Belts & Accessories - Manufacturers & Suppliers **Status: Active** Positional Accuracy: Manually positioned to the road within the address or location	A9NE (NW)	968	-	385776 399722
183	**Contemporary Trade Directory Entries** Name: Tyreworld Location: 704, Oldham Road, Manchester, M40 2AA Classification: Tyre Dealers **Status: Inactive** Positional Accuracy: Automatically positioned in the proximity of the address	A15NW (N)	978	-	386676 400252
184	**Contemporary Trade Directory Entries** Name: Ensign Location: Ensign Garage, Robert Street, Manchester, M40 2DX Classification: Garage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A15NW (N)	979	-	386792 400242
185	**Contemporary Trade Directory Entries** Name: Weir Pumps Ltd Location: Park Works, Grimshaw Lane, Manchester, M40 2BA Classification: Engineers - General **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14NE (N)	982	-	386591 400254
186	**Contemporary Trade Directory Entries** Name: Eastland Compounding Location: Bank Street, Manchester, M11 4AS Classification: Rubber & Plastic Products - Manufacturers **Status: Active** Positional Accuracy: Automatically positioned to the address	A8SW (SE)	986	-	387580 398666
187	**Fuel Station Entries** Name: Asda Eastlands Location: Alan Turing Way, Bradford, Manchester, Lancashire, M11 4BD Brand: Asda Premises Type: Hypermarket **Status: Open** Positional Accuracy: Manually positioned to the address or location	A7SE (SE)	634	-	387132 398653
188	**Fuel Station Entries** Name: Tcs Monsall Location: 571, Oldham Road, Manchester, M40 5AF Brand: TOTAL Premises Type: Petrol Station **Status: Open** Positional Accuracy: Automatically positioned to the address	A14NE (N)	883	-	386495 400145

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
189	**Areas of Adopted Green Belt** Authority: Manchester City Council Plan Name: The Manchester Plan **Status: Adopted** Plan Date: 11th December 1998	A12NE (E)	988	9	387678 399514
190	**Local Nature Reserves** Name: Clayton Vale Multiple Area: N Area (m2): 525731.43 Source: Natural England Designation Date: 26th July 2006	A8NW (E)	754	10	387483 399067
191	**Nitrate Vulnerable Zones** Name: Not Supplied Description: NVZ Area Source: Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	A14SW (NW)	999	11	385951 400000

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices		
Salford City Council - Environmental Health Department	April 2011	Annual Rolling Update
Manchester City Council - Environmental Health Department	August 2011	Annual Rolling Update
Oldham Metropolitan Borough Council - Environmental Health Department	July 2011	Annual Rolling Update
Tameside Metropolitan Borough Council - Environmental Health Department	June 2011	Annual Rolling Update
Stockport Metropolitan Borough Council - Environment Team (Land & Water)	March 2012	Annual Rolling Update
Trafford Metropolitan Borough Council - Renewal and Environmental Protection	November 2011	Annual Rolling Update
Bury Metropolitan Borough Council - Environmental Health Department	September 2011	Annual Rolling Update
Rochdale Metropolitan Borough Council - Environmental Health Department	September 2011	Annual Rolling Update
Discharge Consents		
Environment Agency - North West Region	January 2012	Quarterly
Enforcement and Prohibition Notices		
Environment Agency - North West Region	April 2012	Quarterly
Integrated Pollution Controls		
Environment Agency - North West Region	October 2008	Not Applicable
Integrated Pollution Prevention And Control		
Environment Agency - North West Region	January 2012	Quarterly
Local Authority Integrated Pollution Prevention And Control		
Rochdale Metropolitan Borough Council - Environmental Health Department	April 2011	Annual Rolling Update
Bury Metropolitan Borough Council - Environmental Health Department	April 2012	Annual Rolling Update
Salford City Council - Environmental Health Department	August 2011	Annual Rolling Update
Manchester City Council - Environmental Health Department	February 2012	Annual Rolling Update
Tameside Metropolitan Borough Council - Environmental Health Department	February 2012	Annual Rolling Update
Oldham Metropolitan Borough Council - Environmental Health Department	June 2011	Annual Rolling Update
Stockport Metropolitan Borough Council - Environmental Health Department, EEDD	March 2012	Annual Rolling Update
Trafford Metropolitan Borough Council - Environmental Health Department	October 2011	Annual Rolling Update
Local Authority Pollution Prevention and Controls		
Rochdale Metropolitan Borough Council - Environmental Health Department	April 2011	Annual Rolling Update
Salford City Council - Environmental Health Department	August 2011	Annual Rolling Update
Manchester City Council - Environmental Health Department	February 2012	Annual Rolling Update
Tameside Metropolitan Borough Council - Environmental Health Department	February 2012	Annual Rolling Update
Oldham Metropolitan Borough Council - Environmental Health Department	June 2011	Annual Rolling Update
Stockport Metropolitan Borough Council - Environmental Health Department, EEDD	March 2012	Annual Rolling Update
Bury Metropolitan Borough Council - Environmental Health Department	May 2011	Annual Rolling Update
Trafford Metropolitan Borough Council - Environmental Health Department	October 2011	Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements		
Rochdale Metropolitan Borough Council - Environmental Health Department	April 2011	Annual Rolling Update
Bury Metropolitan Borough Council - Environmental Health Department	April 2012	Annual Rolling Update
Salford City Council - Environmental Health Department	August 2011	Annual Rolling Update
Manchester City Council - Environmental Health Department	February 2012	Annual Rolling Update
Tameside Metropolitan Borough Council - Environmental Health Department	February 2012	Annual Rolling Update
Oldham Metropolitan Borough Council - Environmental Health Department	June 2011	Annual Rolling Update
Stockport Metropolitan Borough Council - Environmental Health Department, EEDD	March 2012	Annual Rolling Update
Trafford Metropolitan Borough Council - Environmental Health Department	October 2011	Annual Rolling Update
Nearest Surface Water Feature		
Ordnance Survey	December 2011	Quarterly
Pollution Incidents to Controlled Waters		
Environment Agency - North West Region	January 2000	Not Applicable
Prosecutions Relating to Authorised Processes		
Environment Agency - North West Region	April 2012	Monthly
Prosecutions Relating to Controlled Waters		
Environment Agency - North West Region	April 2012	Monthly
Registered Radioactive Substances		
Environment Agency - North West Region	January 2012	Quarterly

Agency & Hydrological	Version	Update Cycle
River Quality Environment Agency - Head Office	November 2001	Not Applicable
River Quality Biology Sampling Points Environment Agency - Head Office	January 2011	Annually
River Quality Chemistry Sampling Points Environment Agency - Head Office	January 2011	Annually
Substantiated Pollution Incident Register Environment Agency - North West Region - South Area	January 2012	Quarterly
Water Abstractions Environment Agency - North West Region	January 2012	Quarterly
Water Industry Act Referrals Environment Agency - North West Region	January 2012	Quarterly
Groundwater Vulnerability Environment Agency - Head Office	January 2011	Not Applicable
Drift Deposits Environment Agency - Head Office	January 1999	Not Applicable
Bedrock Aquifer Designations British Geological Survey - National Geoscience Information Service	September 2011	Annually
Superficial Aquifer Designations British Geological Survey - National Geoscience Information Service	September 2011	Annually
Source Protection Zones Environment Agency - Head Office	December 2011	Quarterly
Extreme Flooding from Rivers or Sea without Defences Environment Agency - Head Office	May 2012	Quarterly
Flooding from Rivers or Sea without Defences Environment Agency - Head Office	May 2012	Quarterly
Areas Benefiting from Flood Defences Environment Agency - Head Office	May 2012	Quarterly
Flood Water Storage Areas Environment Agency - Head Office	May 2012	Quarterly
Flood Defences Environment Agency - Head Office	May 2012	Quarterly

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 - North West Region - South Area	January 2012	Quarterly
Integrated Pollution Control Registered Waste Sites		
Environment Agency - North West Region	October 2008	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries)		
Environment Agency - North West Region - South Area	January 2012	Quarterly
Licensed Waste Management Facilities (Locations)		
Environment Agency - North West Region - South Area	April 2012	Quarterly
Local Authority Landfill Coverage		
Bury Metropolitan Borough Council	May 2000	Not Applicable
Manchester City Council - Planning Department	May 2000	Not Applicable
Oldham Metropolitan Borough Council	May 2000	Not Applicable
Rochdale Metropolitan Borough Council - Environmental Health Department	May 2000	Not Applicable
Salford City Council - Environmental Health Department	May 2000	Not Applicable
Stockport Metropolitan Borough Council - Environmental Health Department, EEDD	May 2000	Not Applicable
Tameside Metropolitan Borough Council	May 2000	Not Applicable
Trafford Metropolitan Borough Council - Environmental Health Department	May 2000	Not Applicable
Local Authority Recorded Landfill Sites		
Bury Metropolitan Borough Council	May 2000	Not Applicable
Manchester City Council - Planning Department	May 2000	Not Applicable
Oldham Metropolitan Borough Council	May 2000	Not Applicable
Rochdale Metropolitan Borough Council - Environmental Health Department	May 2000	Not Applicable
Salford City Council - Environmental Health Department	May 2000	Not Applicable
Stockport Metropolitan Borough Council - Environmental Health Department, EEDD	May 2000	Not Applicable
Tameside Metropolitan Borough Council	May 2000	Not Applicable
Trafford Metropolitan Borough Council - Environmental Health Department	May 2000	Not Applicable
Registered Landfill Sites		
Environment Agency - North West Region - South Area	March 2003	Not Applicable
Registered Waste Transfer Sites		
Environment Agency - North West Region - South Area	March 2003	Not Applicable
Registered Waste Treatment or Disposal Sites		
Environment Agency - North West Region - South Area	March 2003	Not Applicable

Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH)		
Health and Safety Executive	December 2011	Bi-Annually
Explosive Sites		
Health and Safety Executive	December 2011	Bi-Annually
Notification of Installations Handling Hazardous Substances (NIHHS)		
Health and Safety Executive	November 2000	Not Applicable
Planning Hazardous Substance Enforcements		
Stockport Metropolitan Borough Council - Environment and Economic Development	April 2012	Annual Rolling Update
Trafford Metropolitan Borough Council	April 2012	Annual Rolling Update
Oldham Metropolitan Borough Council	August 2011	Annual Rolling Update
Tameside Metropolitan Borough Council - Planning and Building Control	December 2011	Annual Rolling Update
Manchester City Council - Planning Department	January 2012	Annual Rolling Update
Salford City Council	January 2012	Annual Rolling Update
Bury Metropolitan Borough Council	November 2011	Annual Rolling Update
Rochdale Metropolitan Borough Council	September 2011	Annual Rolling Update
Planning Hazardous Substance Consents		
Stockport Metropolitan Borough Council - Environment and Economic Development	April 2012	Annual Rolling Update
Trafford Metropolitan Borough Council	April 2012	Annual Rolling Update
Oldham Metropolitan Borough Council	August 2011	Annual Rolling Update
Tameside Metropolitan Borough Council - Planning and Building Control	December 2011	Annual Rolling Update
Manchester City Council - Planning Department	January 2012	Annual Rolling Update
Salford City Council	January 2012	Annual Rolling Update
Bury Metropolitan Borough Council	November 2011	Annual Rolling Update
Rochdale Metropolitan Borough Council	September 2011	Annual Rolling Update

Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	August 1996	Not Applicable
BGS Estimated Soil Chemistry British Geological Survey - National Geoscience Information Service	January 2010	Variable
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	April 2012	Bi-Annually
BGS Urban Soil Chemistry British Geological Survey - National Geoscience Information Service	June 2011	Variable
BGS Urban Soil Chemistry Averages British Geological Survey - National Geoscience Information Service	June 2011	Variable
Brine Compensation Area Cheshire Brine Subsidence Compensation Board	November 2002	Not Applicable
Coal Mining Affected Areas The Coal Authority - Mining Report Service	August 2011	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	February 2011	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	February 2011	Annually
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	February 2011	Annually
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	February 2011	Annually
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	February 2011	Annually
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	February 2011	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	February 2011	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	February 2012	Quarterly
Fuel Station Entries Catalist Ltd - Experian	November 2011	Quarterly

Sensitive Land Use	Version	Update Cycle
Areas of Adopted Green Belt		
Bury Metropolitan Borough Council	April 2012	As notified
Manchester City Council	April 2012	As notified
Oldham Metropolitan Borough Council	April 2012	As notified
Rochdale Metropolitan Borough Council	April 2012	As notified
Salford City Council	April 2012	As notified
Stockport Metropolitan Borough Council	April 2012	As notified
Tameside Metropolitan Borough Council	April 2012	As notified
Trafford Metropolitan Borough Council	April 2012	As notified
Areas of Unadopted Green Belt		
Bury Metropolitan Borough Council	April 2012	As notified
Manchester City Council	April 2012	As notified
Oldham Metropolitan Borough Council	April 2012	As notified
Rochdale Metropolitan Borough Council	April 2012	As notified
Salford City Council	April 2012	As notified
Stockport Metropolitan Borough Council	April 2012	As notified
Tameside Metropolitan Borough Council	April 2012	As notified
Trafford Metropolitan Borough Council	April 2012	As notified
Areas of Outstanding Natural Beauty		
Natural England	February 2012	Bi-Annually
Environmentally Sensitive Areas		
Natural England	February 2012	Annually
Forest Parks		
Forestry Commission	April 1997	Not Applicable
Local Nature Reserves		
Natural England	February 2012	Bi-Annually
Marine Nature Reserves		
Natural England	February 2012	Bi-Annually
National Nature Reserves		
Natural England	February 2012	Bi-Annually
National Parks		
Natural England	February 2012	Bi-Annually
Nitrate Sensitive Areas		
Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	February 2012	Not Applicable
Nitrate Vulnerable Zones		
Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	February 2012	Annually
Ramsar Sites		
Natural England	February 2012	Bi-Annually
Sites of Special Scientific Interest		
Natural England	February 2012	Bi-Annually
Special Areas of Conservation		
Natural England	February 2012	Bi-Annually
Special Protection Areas		
Natural England	February 2012	Bi-Annually

Data Suppliers

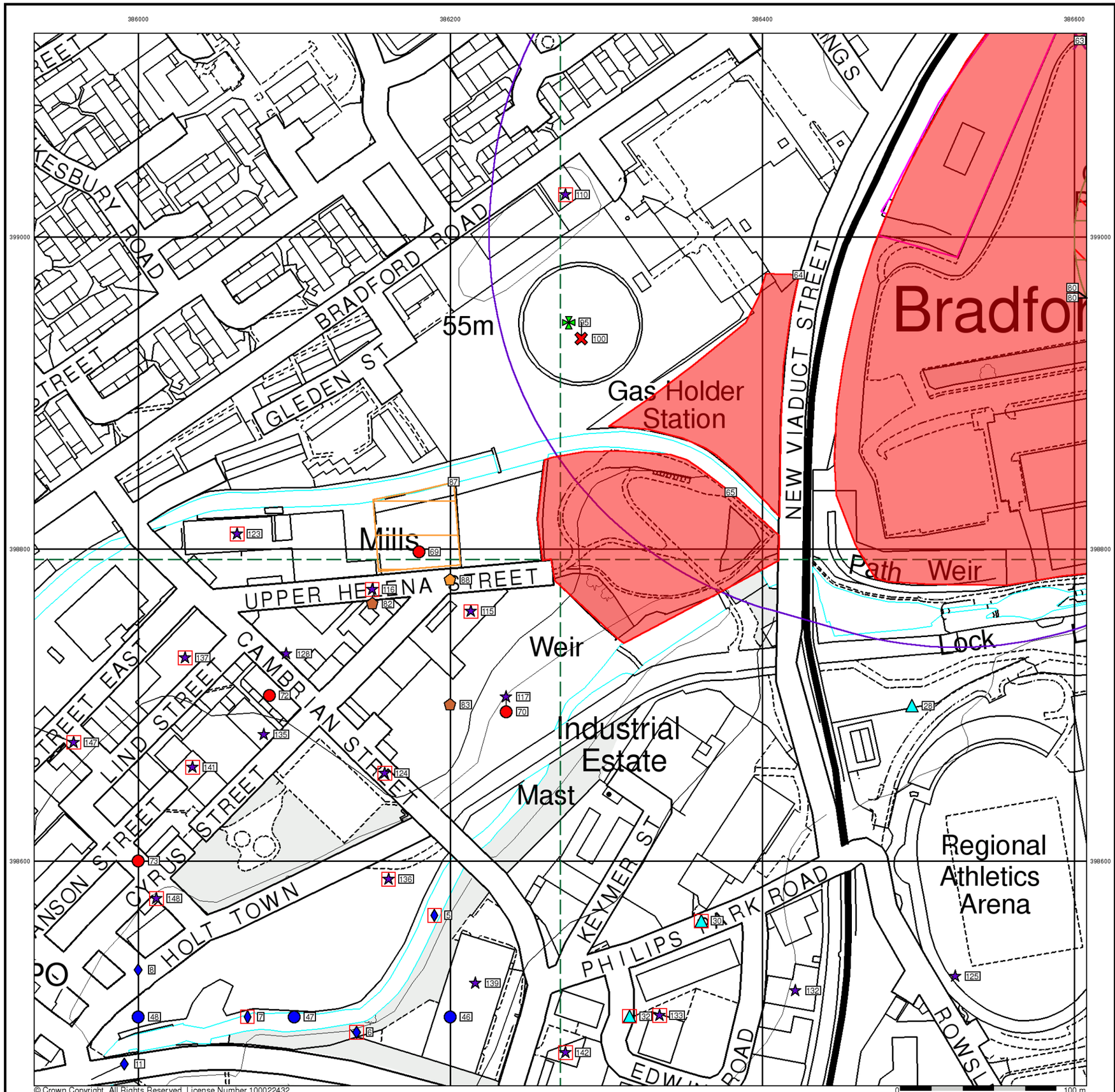
A selection of organisations who provide data within this report

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

Useful Contacts

Contact	Name and Address	Contact Details
1	**Environment Agency - National Customer Contact Centre (NCCC)** PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 08708 506 506 Email: enquiries@environment-agency.gov.uk
2	**Manchester City Council - Environmental Health Department** PO Box 463, Town Hall Extension, Albert Square, Manchester, Greater Manchester, M60 3NY	Telephone: 0161 234 4884 / 234 4873. Fax: 0161 234 4508 Website: www.manchester.gov.uk
3	**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
4	**Health and Safety Executive** Explosives Inspectorate, 1.2 Redgrave Court, Merton Road, Bootle, L20 7HS	Telephone: 0151 951 3092 Fax: 0151 951 3891 Email: victoria.holloway@hse.gsi.go.uk Website: www.hse.gov.uk
5	**Manchester City Council - Planning Department** Town Hall, Manchester, Greater Manchester, M60 2LA	Telephone: 0161 234 5000 Fax: 0161 234 4508 Website: www.manchester.gov.uk
6	**Landmark Information Group Limited** 5 - 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Telephone: 01392 441761 Fax: 01392 441709 Email: cssupport@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk
7	**The Coal Authority - Mining Report Service** 200 Lichfield Lane, Mansfield, Nottinghamshire, NG18 4RG	Telephone: 0845 7626848 Email: thecoalauthority@coal.gov.uk
8	**Peter Brett Associates** Caversham Bridge House, Waterman Place, Reading, Berkshire, RG1 8DN	Telephone: 0118 950 0761 Fax: 0118 959 7498 Email: reading@pba.co.uk Website: www.pba.co.uk
9	**Manchester City Council** Town Hall, Albert Square, Manchester, Greater Manchester, M60 2JT	Telephone: 0161 234 5000 Fax: 0161 234 4508 Website: www.manchester.gov.uk
10	**Natural England** Northminster House, Northminster Road, Peterborough, Cambridgeshire, PE1 1UA	Telephone: 0845 600 3078 Fax: 01733 455103 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.uk
11	**Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)** Government Buildings, Otley Road, Lawnswood, Leeds, West Yorkshire, LS16 5QT	Telephone: 0113 2613333 Fax: 0113 230 0879
-	**Health Protection Agency - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards** Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@hpa.org.uk Website: www.hpa.org.uk
-	**Landmark Information Group Limited** The Smith Centre, Henley On Thames, Oxfordshire, RG9 6AB	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

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



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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

Geological

- BGS Recorded Mineral Site

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry

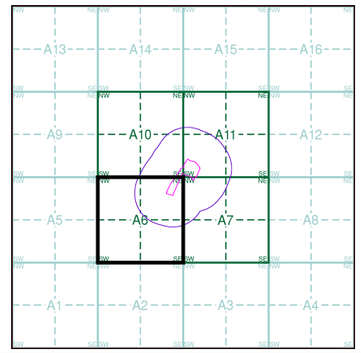
Waste

- 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
- 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

Hazardous Substances

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

Site Sensitivity Map - Segment A6



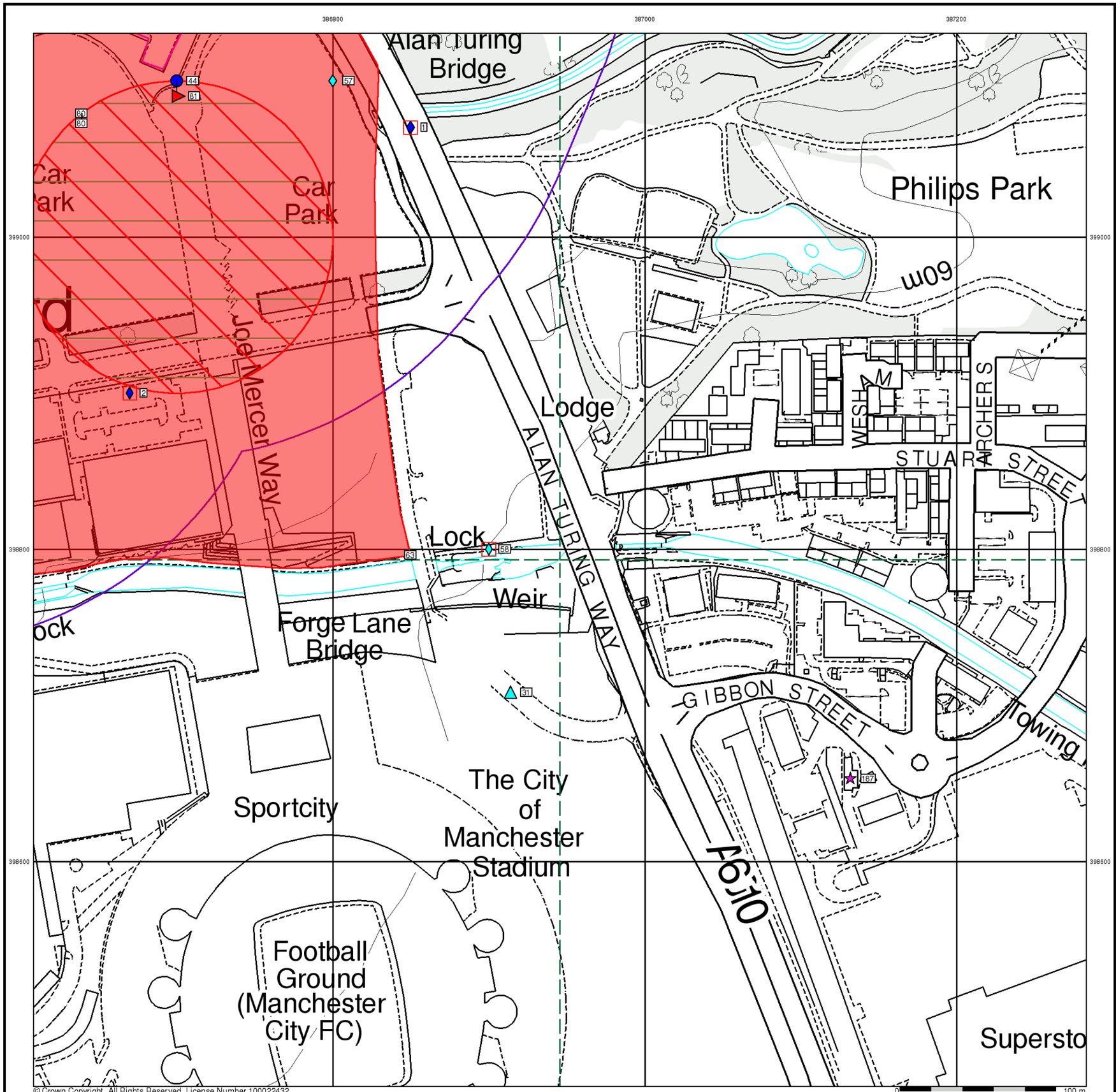
Order Details

Order Number:	39314891_1_1
Customer Ref:	A074754-28
National Grid Reference:	386600, 399130
Slice:	A
Site Area (Ha):	2.38

Site Details

Site at 386580, 399170

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



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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

Geological

- BGS Recorded Mineral Site

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry

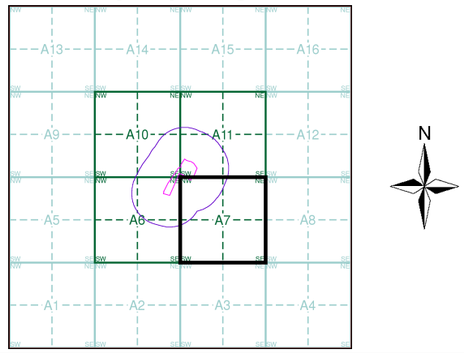
Waste

- 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
- 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

Hazardous Substances

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

Site Sensitivity Map - Segment A7



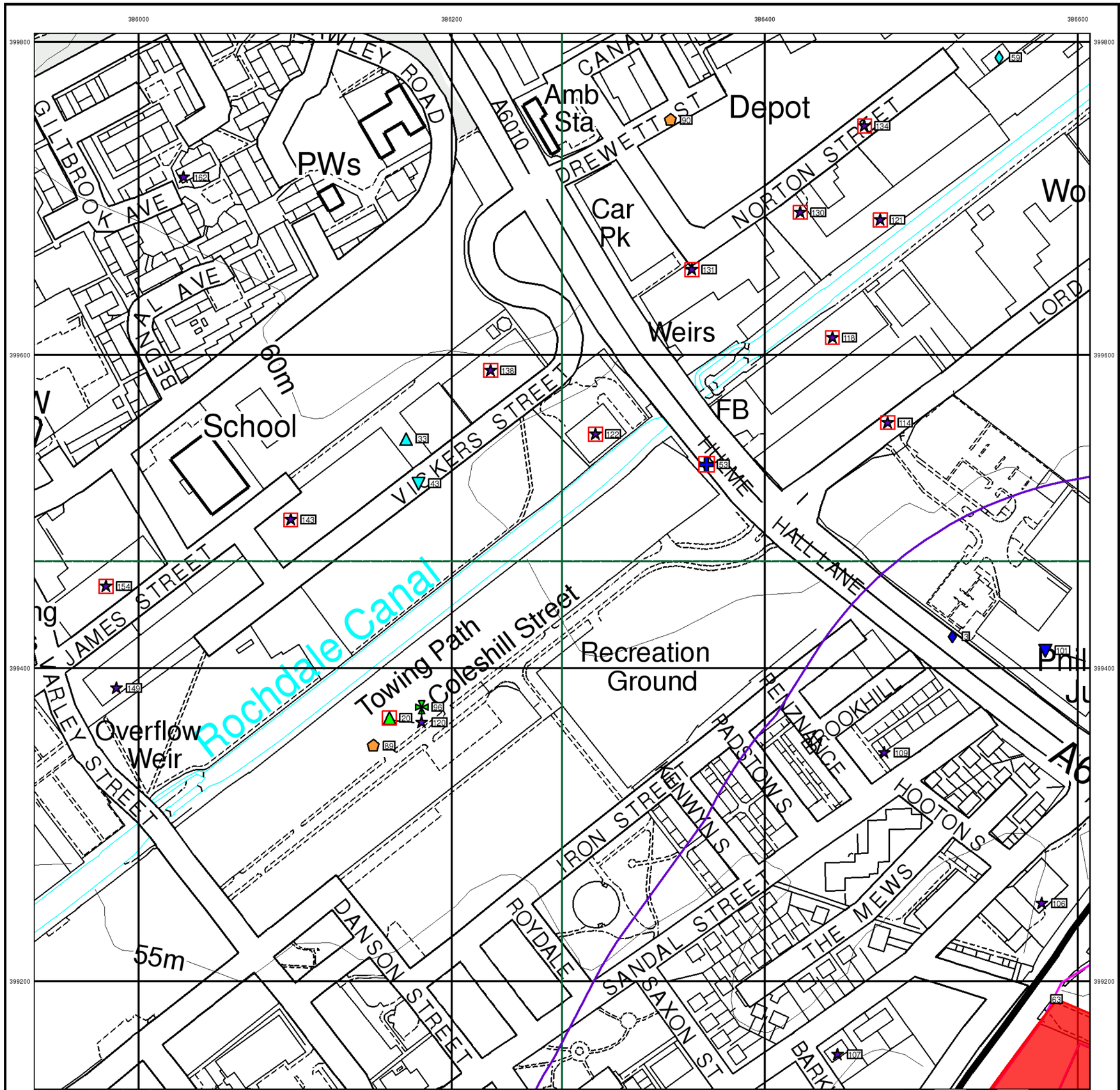
Order Details

Order Number:	39314891_1_1
Customer Ref:	A074754-28
National Grid Reference:	386600, 399130
Slice:	A
Site Area (Ha):	2.38

Site Details

Site at 386580, 399170

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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

Geological

- BGS Recorded Mineral Site

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry

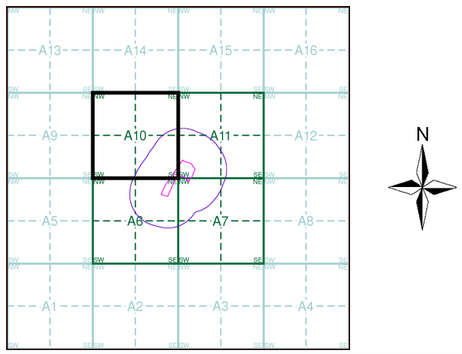
Waste

- 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
- 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

Hazardous Substances

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

Site Sensitivity Map - Segment A10



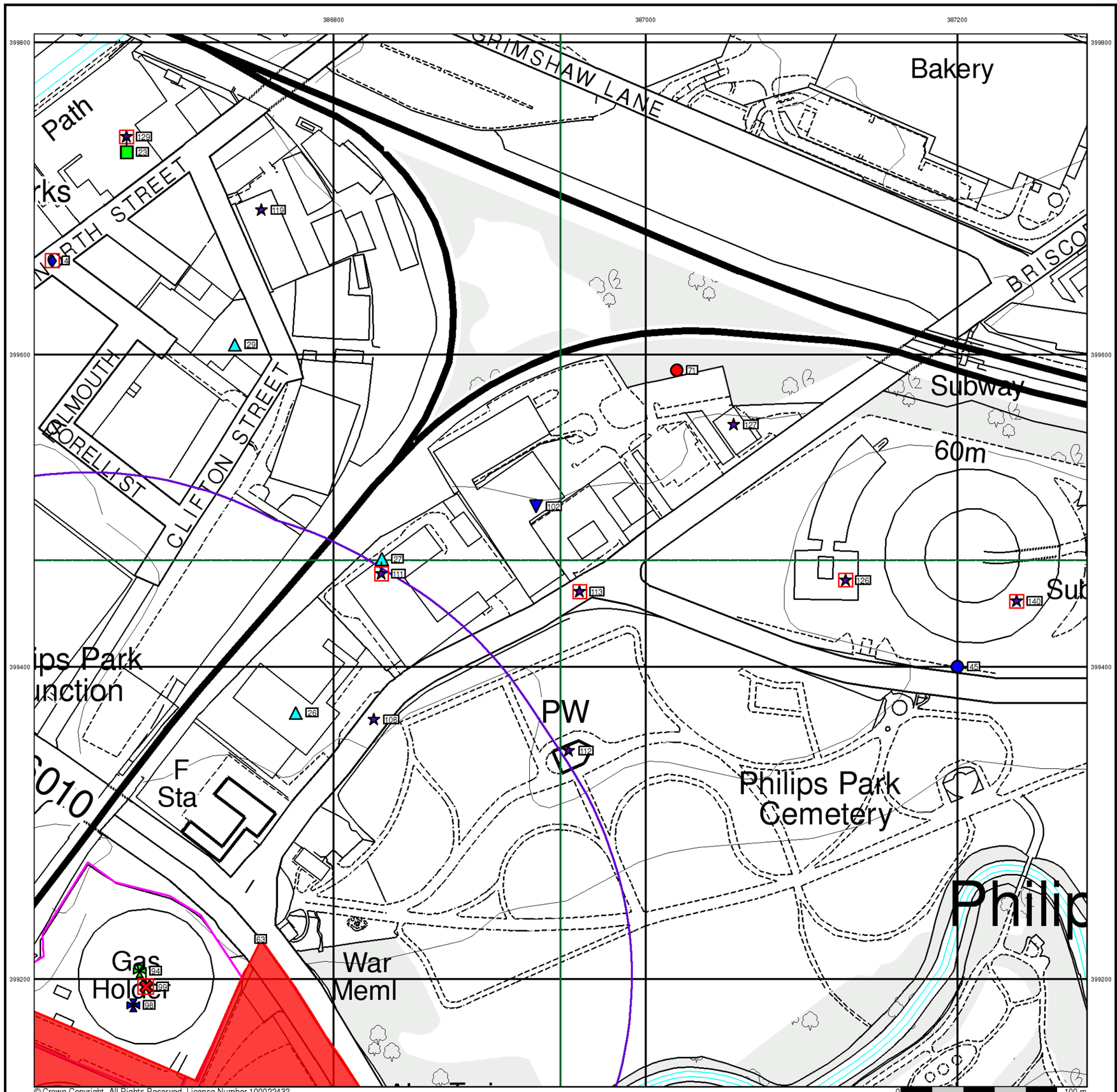
Order Details

Order Number:	39314891_1_1
Customer Ref:	A074754-28
National Grid Reference:	386600, 399130
Slice:	A
Site Area (Ha):	2.38

Site Details

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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

Geological

- BGS Recorded Mineral Site

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry

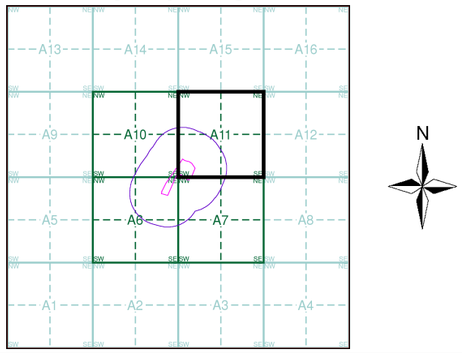
Waste

- 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
- 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

Hazardous Substances

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

Site Sensitivity Map - Segment A11



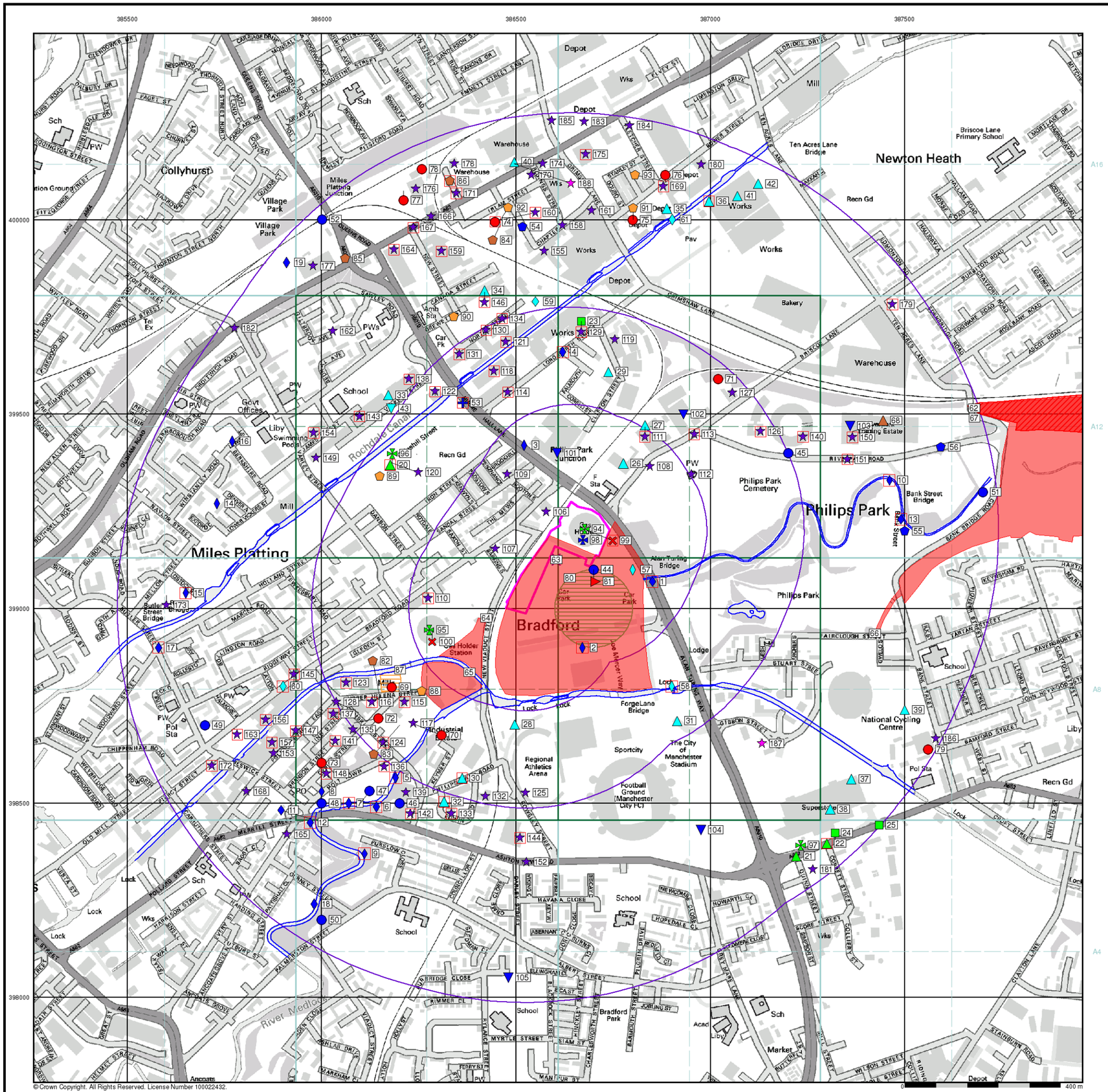
Order Details

Order Number:	39314891_1_1
Customer Ref:	A074754-28
National Grid Reference:	386600, 399130
Slice:	A
Site Area (Ha):	2.38

Site Details

Site at 386580, 399170

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



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

Geological

- BGS Recorded Mineral Site

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry

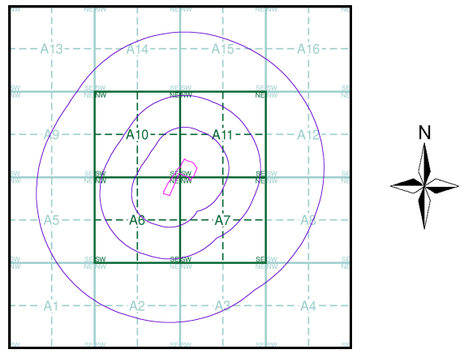
Waste

- 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)
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- Local Authority Recorded Landfill Site
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- 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

Hazardous Substances

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

Site Sensitivity Map - Slice A



Order Details

Order Number:	39314891_1_1
Customer Ref:	A074754-28
National Grid Reference:	386600, 399130
Slice:	A
Site Area (Ha):	2.38
Search Buffer (m):	1000

Site Details

Site at 386580, 399170

Landmark Information Group
Tel: 0844 844 9952
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Web: www.envirocheck.co.uk



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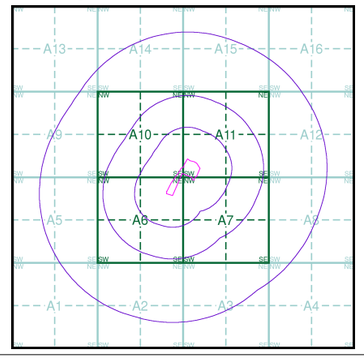
General

- 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 A



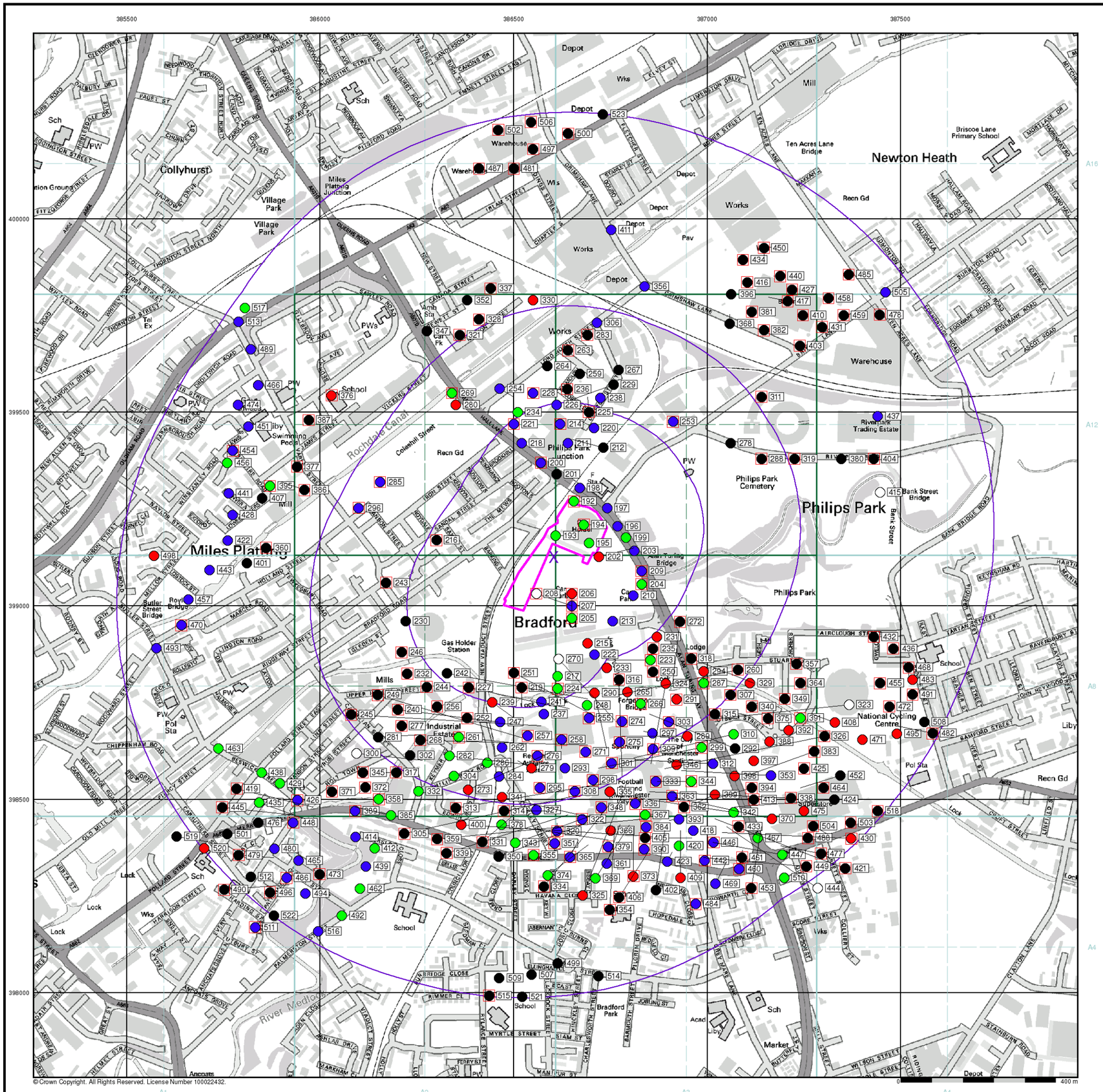
Order Details

Order Number:	39314891_1_1
Customer Ref:	A074754-28
National Grid Reference:	386600, 399130
Slice:	A
Site Area (Ha):	2.38
Search Buffer (m):	1000

Site Details

Site at 386580, 399170

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



General

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

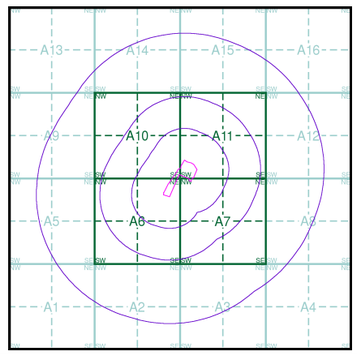
Agency and Hydrological (Boreholes)

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

For Borehole information please refer to the Borehole datasheet 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 A



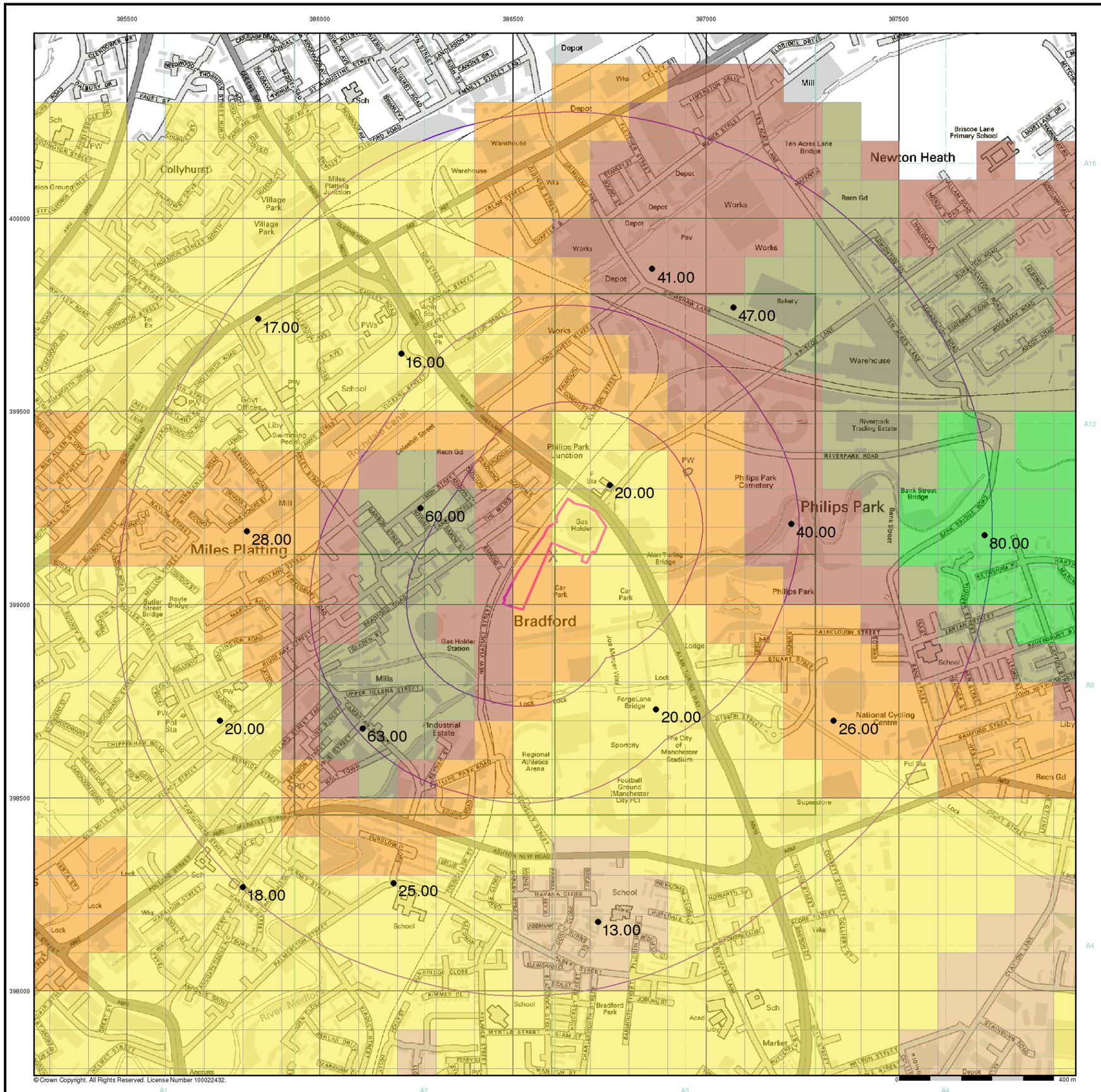
Order Details

Order Number:	39314891_1_1
Customer Ref:	A074754-28
National Grid Reference:	386600, 399130
Slice:	A
Site Area (Ha):	2.38
Search Buffer (m):	1000

Site Details

Site at 386580, 399170

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General

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

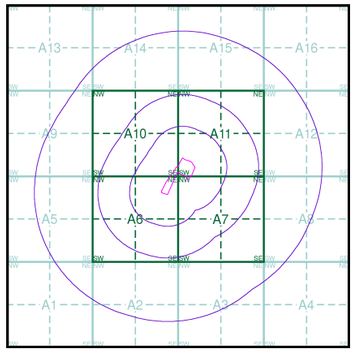
Urban Soil Chemistry Arsenic

● 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 A



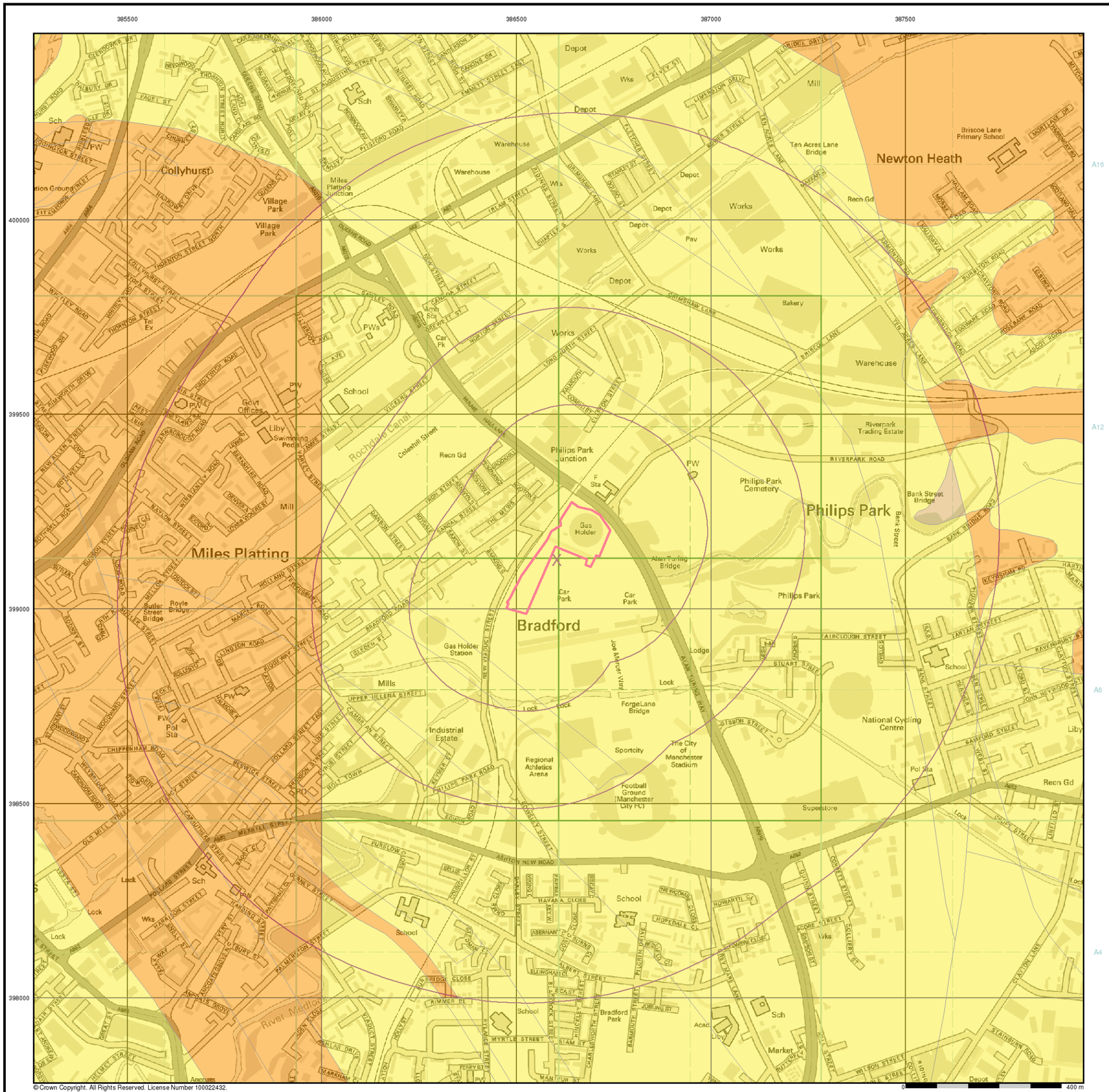
Order Details

Order Details:	39314891_1_1
Customer Ref:	A074754-28
National Grid Reference:	386600, 399130
Slice:	A
Site Area (Ha):	2.38
Search buffer (m):	1000

Site Details

Site at 386580, 399170

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General

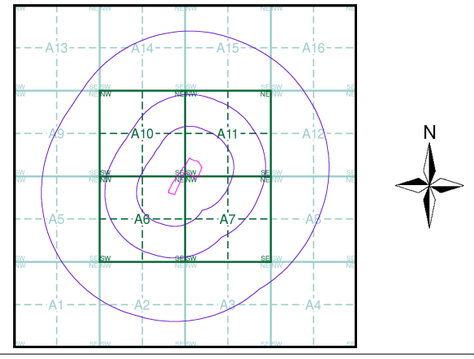
Specified Site | Specified Buffer(s) | X Bearing Reference Point

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 A



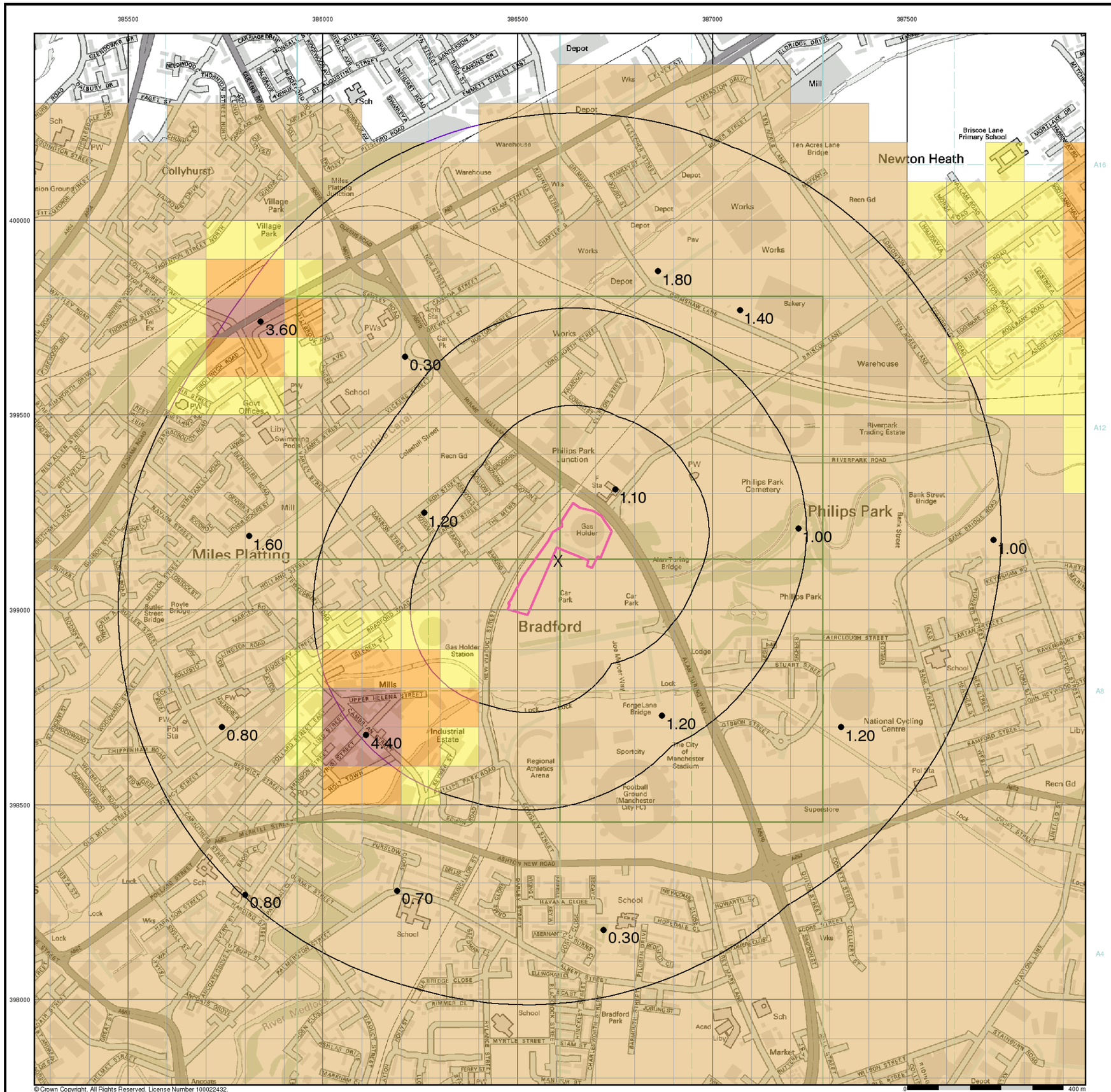
Order Details

Order Details:	39314891_1_1
Customer Ref:	A074754-28
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Slice:	A
Site Area (Ha):	2.38
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Site at 386580, 399170

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General

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

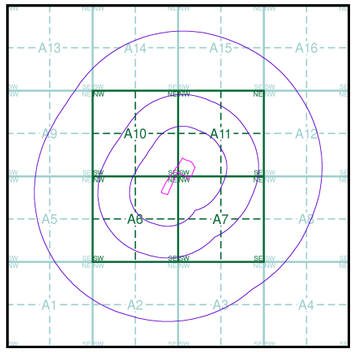
Urban Soil Chemistry Cadmium

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 A



Order Details

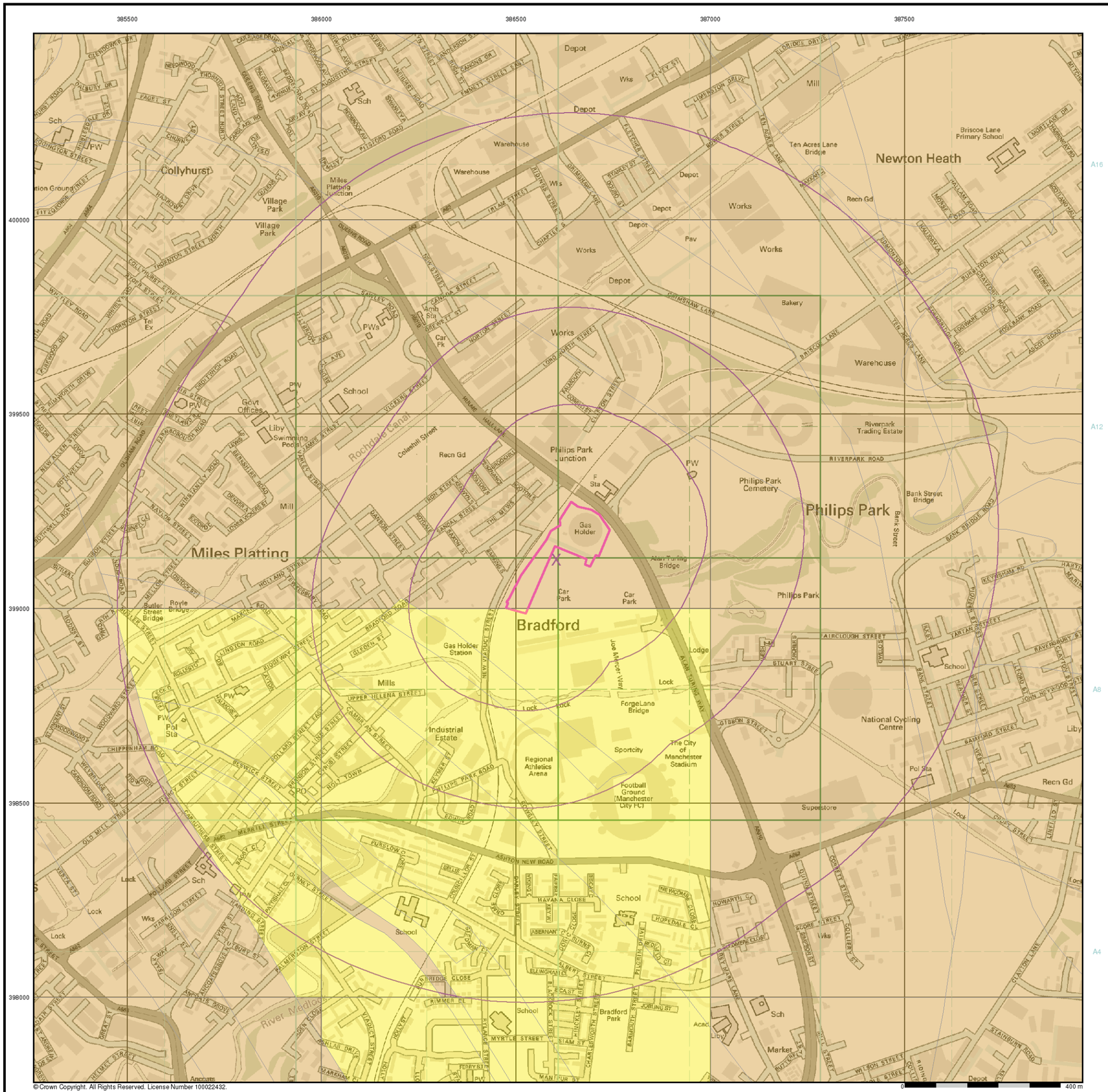
Order Details:	39314891_1_1
Customer Ref:	A074754-28
National Grid Reference:	386600, 399130
Slice:	A
Site Area (Ha):	2.38
Search buffer (m):	1000

Site Details

Site at 386580, 399170

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General

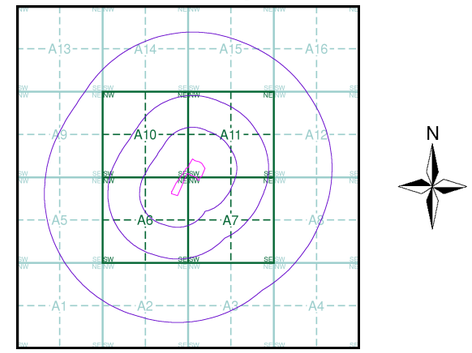
Specified Site | Specified Buffer(s) | X Bearing Reference Point

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 A



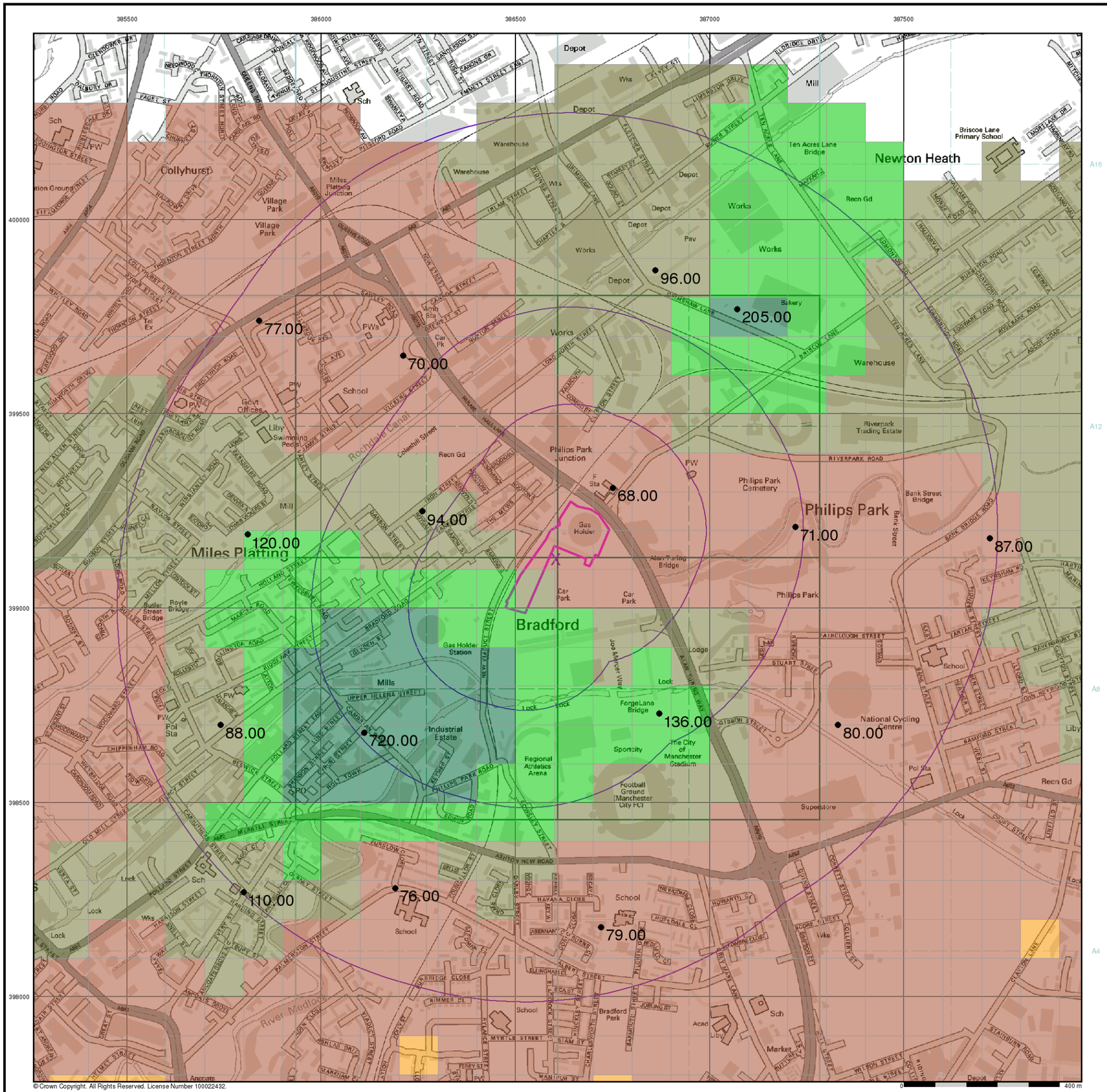
Order Details

Order Details:	39314891_1_1
Customer Ref:	A074754-28
National Grid Reference:	386600, 399130
Slice:	A
Site Area (Ha):	2.38
Search buffer (m):	1000

Site Details

Site at 386580, 399170

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Web: www.envirocheck.co.uk



General

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

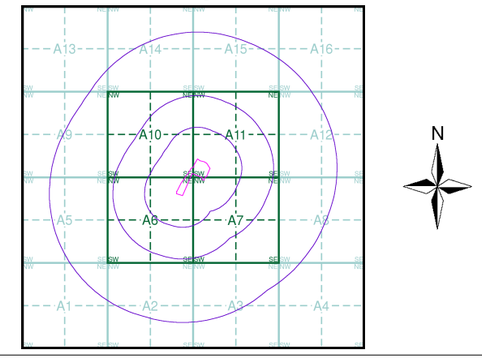
Urban Soil Chemistry Chromium

● 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 A



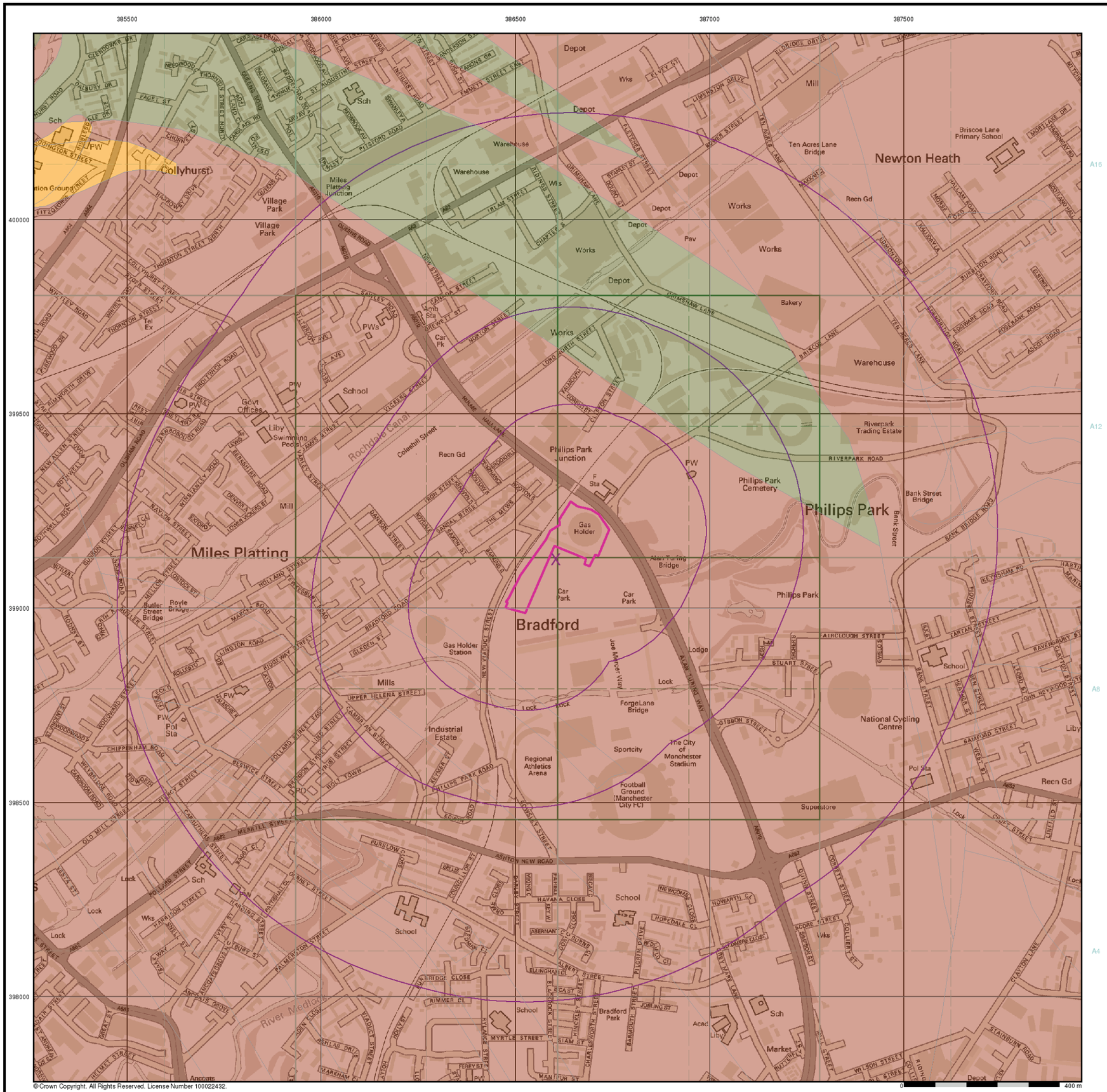
Order Details

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Site Area (Ha):	2.38
Search buffer (m):	1000

Site Details

Site at 386580, 399170

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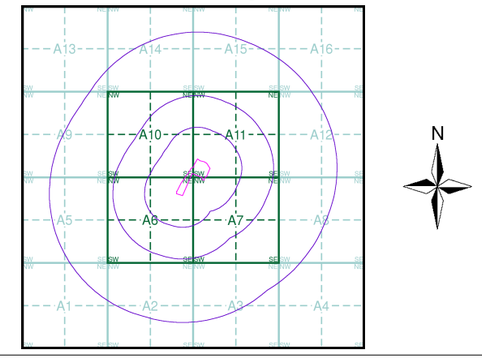
Specified Site | Specified Buffer(s) | X Bearing Reference Point

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 A



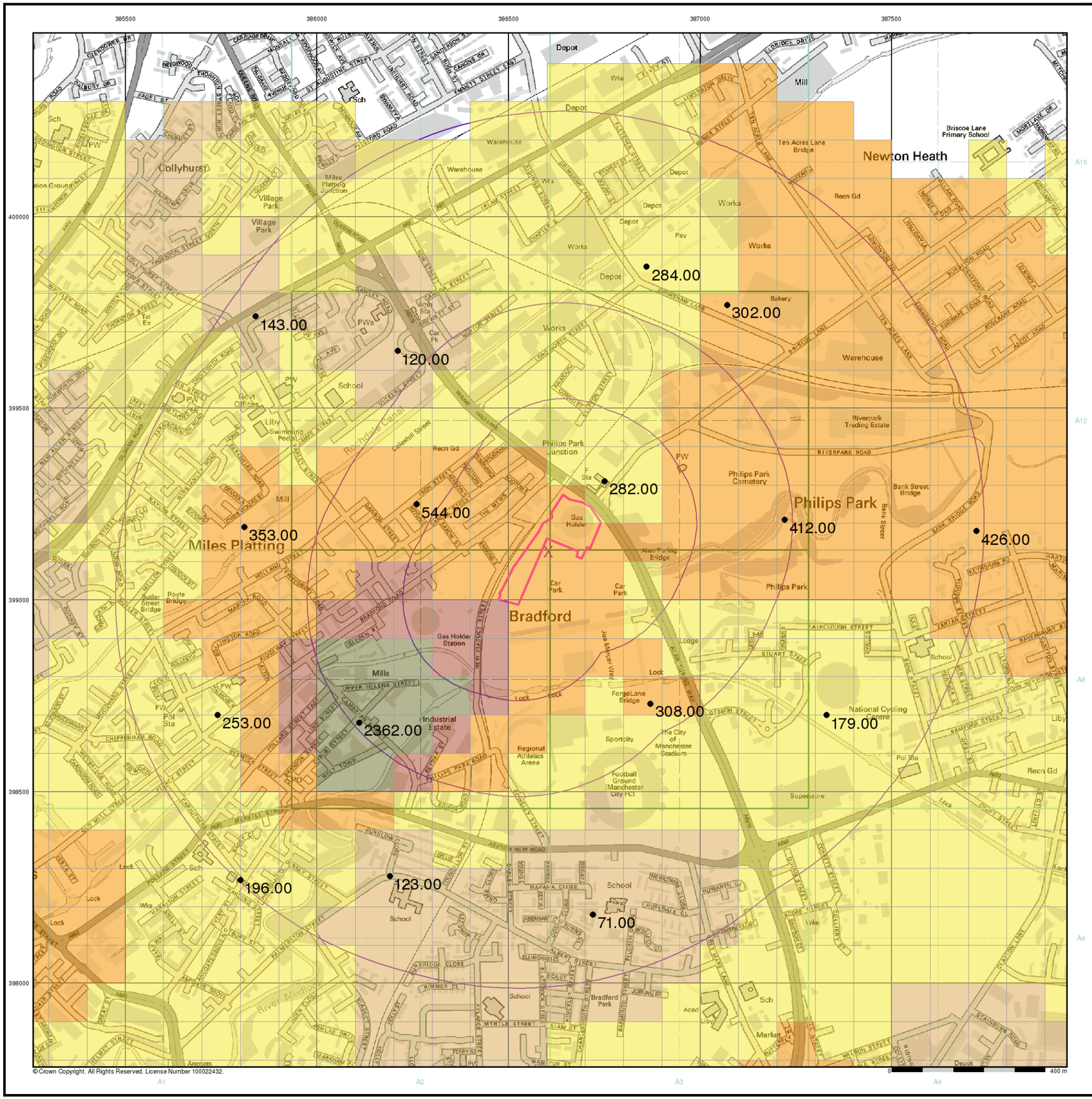
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Specified Site | Specified Buffer(s) | X Bearing Reference Point

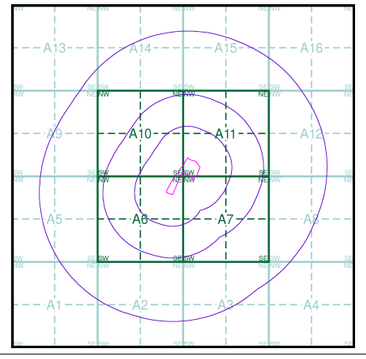
Urban Soil Chemistry Lead

● 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 A



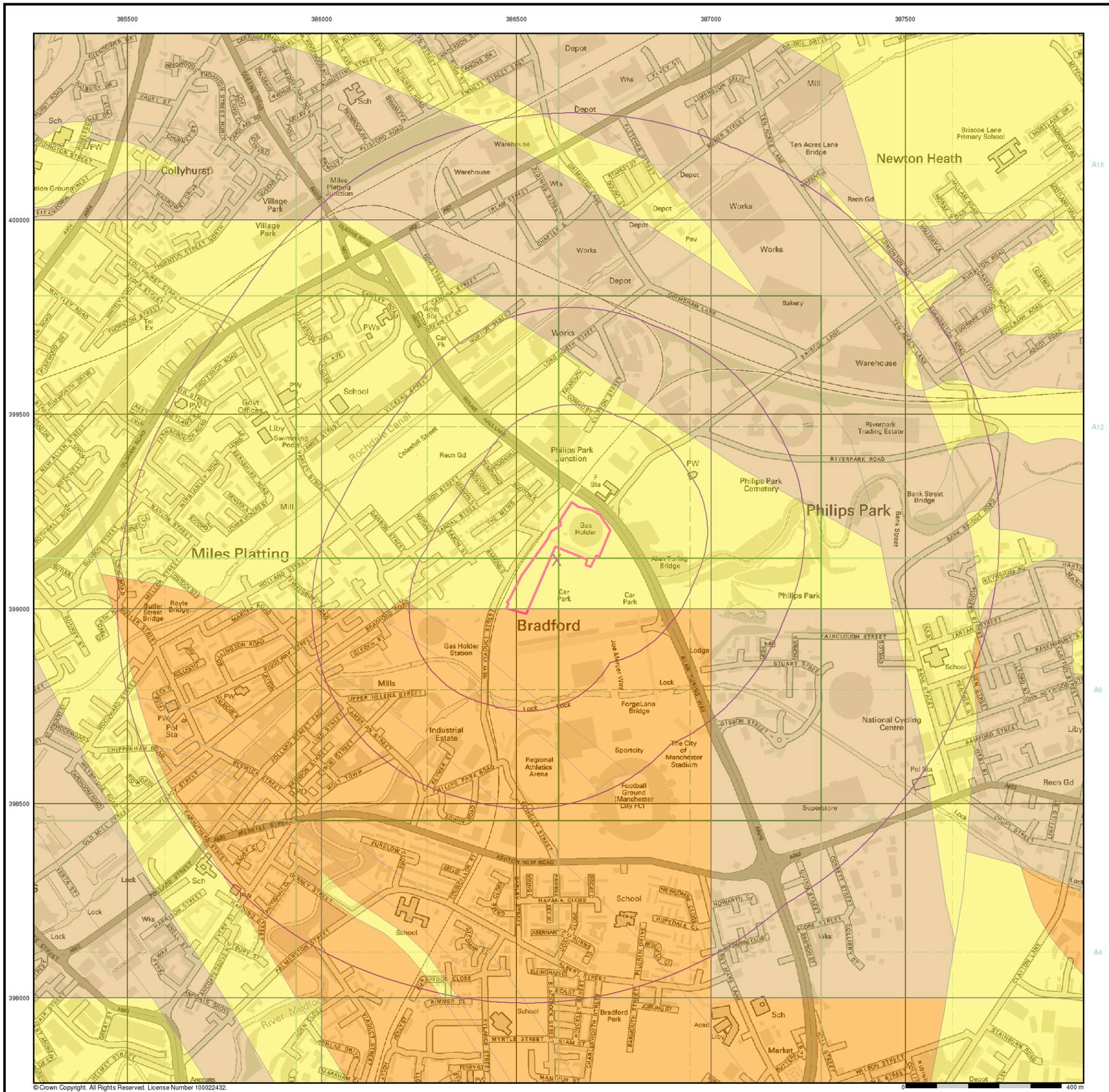
Order Details

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Site Details

Site at 386580, 399170

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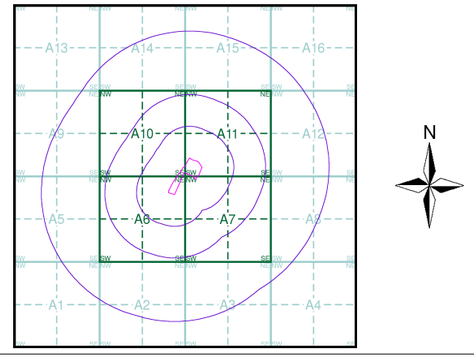
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Lead

Lead Concentrations mg/kg

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

Estimated Soil Chemistry Lead - Slice A



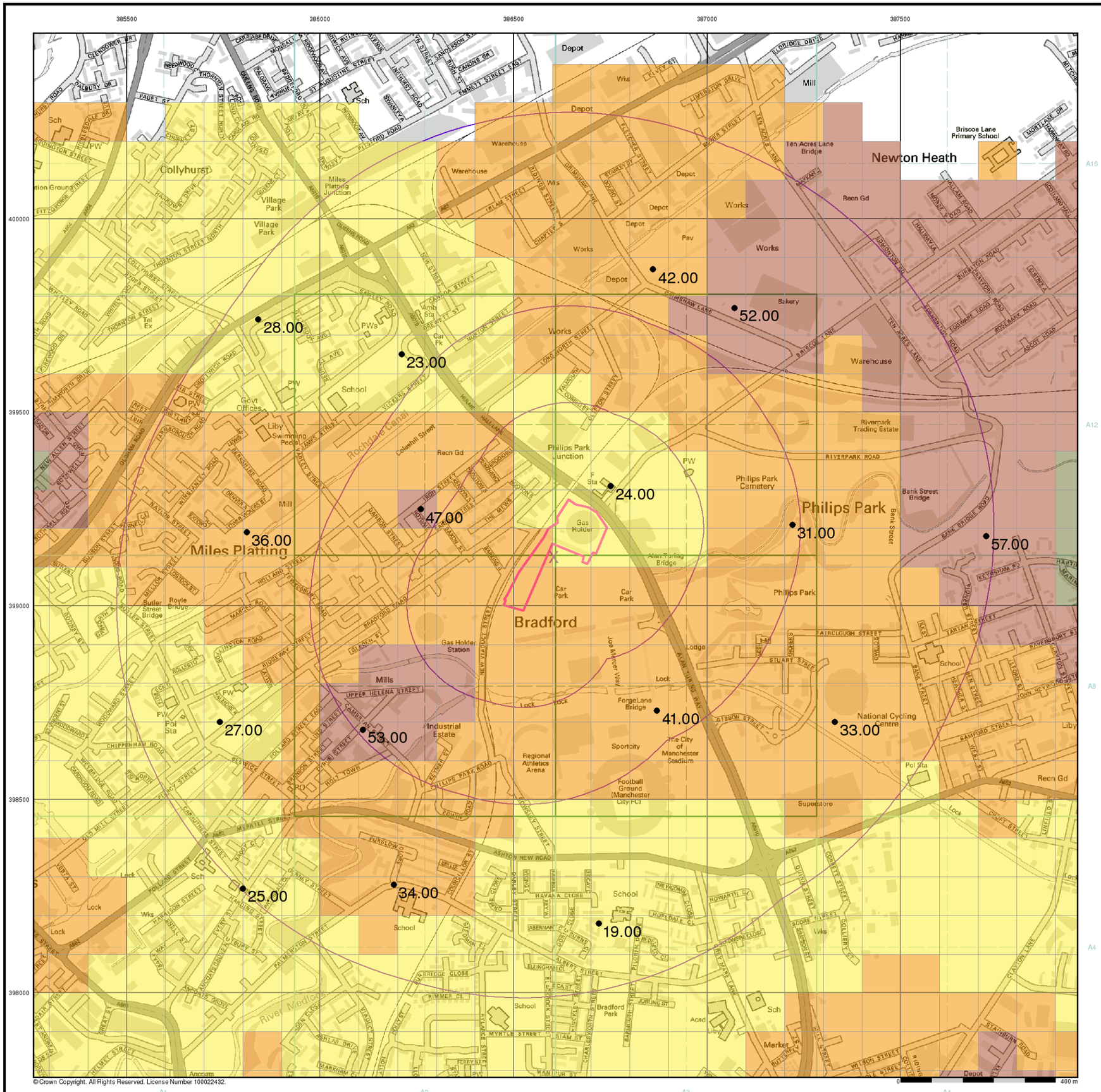
Order Details

Order Details:	39314891_1_1
Customer Ref:	A074754-28
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General

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

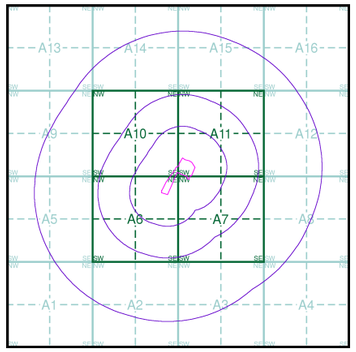
Urban Soil Chemistry Nickel

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 A



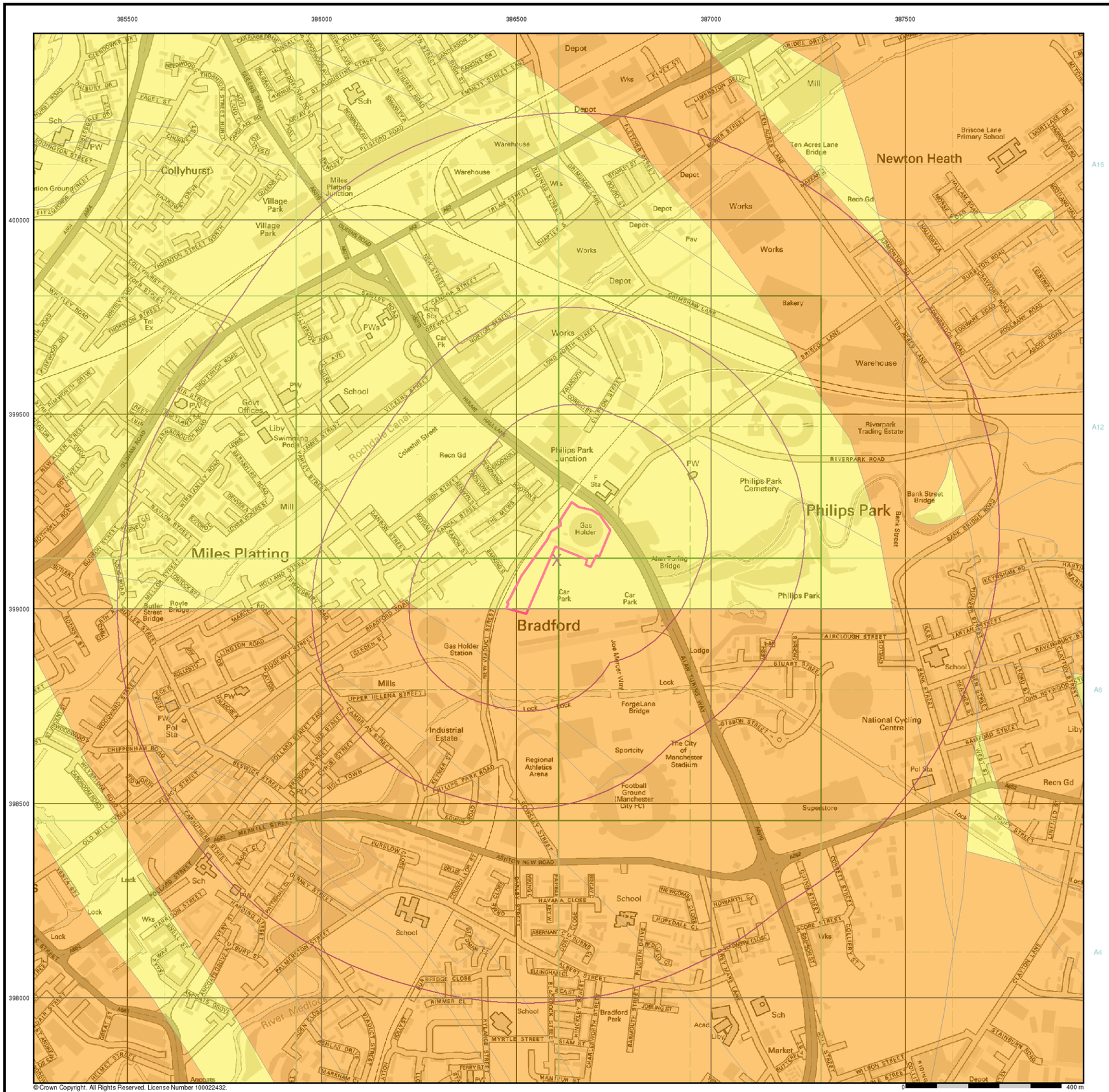
Order Details

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Site Details

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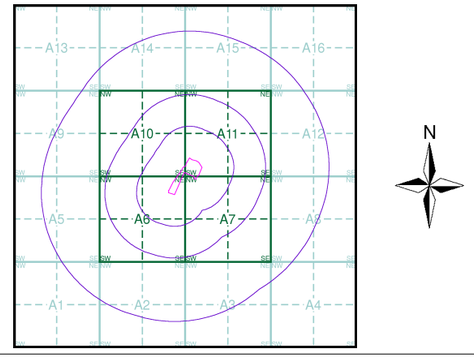
Specified Site | Specified Buffer(s) | X Bearing Reference Point

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 A



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Appendix E – Historical Plans

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
Electricity Transmission Line
Pole
Sloping Masonry
Cutting
Embankment
Standard Gauge Multiple Track
Standard Gauge Single Track
Road Under
Road Over
Level Crossing
Foot Bridge
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

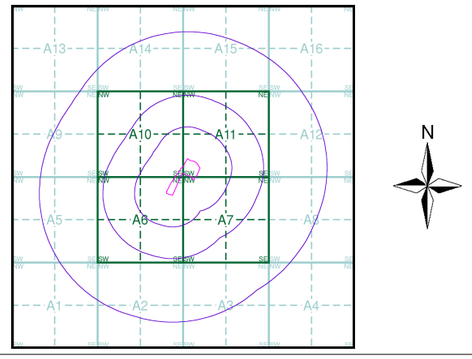
Gravel Pit
Refuse tip or slag heap
Rock
Rock (scattered)
Boulders
Boulders (scattered)
Shingle
Mud
Sand
Sand Pit
Slopes
Top of cliff
General detail
Underground detail
Overhead detail
Narrow gauge railway
Multi-track railway
Single track railway
County boundary (England only)
Civil, parish or community 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

wyg.

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Lancashire And Furness	1:10,560	1848	3
Cheshire	1:10,560	1882	4
Lancashire And Furness	1:10,560	1894	5
Lancashire And Furness	1:10,560	1909	6
Lancashire And Furness	1:10,560	1923	7
Lancashire And Furness	1:10,560	1932 - 1933	8
Lancashire And Furness	1:10,560	1938	9
Ordnance Survey Plan	1:10,000	1956	10
Ordnance Survey Plan	1:10,000	1966 - 1968	11
Manchester	1:25,000	1975	12
Ordnance Survey Plan	1:10,000	1978	13
Ordnance Survey Plan	1:10,000	1981 - 1982	14
Ordnance Survey Plan	1:10,000	1987	15
Ordnance Survey Plan	1:10,000	1990 - 1993	16
10K Raster Mapping	1:10,000	2006	17
10K Raster Mapping	1:10,000	2011	18

Historical Map - Slice A



Order Details

Order Number:	39314891_1_1
Customer Ref:	A074754-28
National Grid Reference:	386600, 399130
Slice:	A
Site Area (Ha):	2.38
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Site Details

Site at 386580, 399170

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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 (*бум.*)
- Factory or Mill without Chimney (*скип.*)
- Mine or Open Pit Mine (*медн.*)
- Operating Shaft or Mine (*кам. уг.*)
- Non-Operating Shaft or Mine
- Salt Mine (*сол.*)
- Tailings Pile
- Pit (– 1.7)
- Stone Quarry (*гл. пес. кам.*)
- Gas Pump or Service Station
- Fuel Storage or Natural Gas Tank
- Oil or Natural Gas Derrick
- Small Hydroelectric Power Station
- Power Station
- Transformer Station (*б.тр.*)
- Cemetery
- Burial Mound (height in metres) (+ 8.1)
- Triangulation Point on Burial Mound (95.7)
- Triangulation Point (92.6)
- Bench Mark (52.1)
- Bench Mark (monumented) (71.1)
- Telegraph Office
- Telephone Station
- Radio Station
- Radio Tower
- Airfield or Seaplane Base
- Landing Strip
- Main Highway (Cut, Fill, Km Post, Plantings, Telegraph/Telephone Lines)
- Highway under Construction
- Improved Dirt Road (former truck road) (Width of Road, Steep Grade)
- Double-track Railroad with First Class Station (Small Bridge, Pipe (Culvert), Tunnel)
- Dismantled Railroad
- Railroad Under Construction
- Shore Embankment
- River or Ditch with Embankment (+ 2.4)
- Water Level Mark (Water Gauge, Direction and velocity of current, 135.1)
- Well (К. 125.0 гл.8м (г.-сол.))
- Water Reservoir or Rain Water Pit (вдхр.)
- Spring (156.2 кл.)
- Isobath with value (20)
- Heavy (Index) Contour Line
- Contour Line and Value (20)
- Half Contour Line
- Spot Elevation Value (347.1)
- Coniferous
- Deciduous
- Mixed
- Scrub

Key to Numbers on Mapping

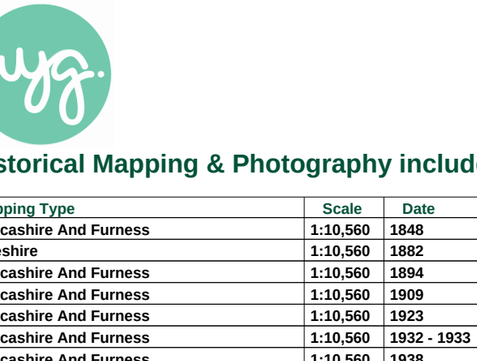
SJ89_Manchester

No.	Description
61	Factory (Gas)
64	Factory (Gas)
83	Factory (Machinery)
137	Foundry (Cast Iron)
252	Power Station (Electric)

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Lancashire And Furness	1:10,560	1848	3
Cheshire	1:10,560	1882	4
Lancashire And Furness	1:10,560	1894	5
Lancashire And Furness	1:10,560	1909	6
Lancashire And Furness	1:10,560	1923	7
Lancashire And Furness	1:10,560	1932 - 1933	8
Lancashire And Furness	1:10,560	1938	9
Ordnance Survey Plan	1:10,000	1956	10
Ordnance Survey Plan	1:10,000	1966 - 1968	11
Manchester	1:25,000	1975	12
Ordnance Survey Plan	1:10,000	1978	13
Ordnance Survey Plan	1:10,000	1981 - 1982	14
Ordnance Survey Plan	1:10,000	1987	15
Ordnance Survey Plan	1:10,000	1990 - 1993	16
10K Raster Mapping	1:10,000	2006	17
10K Raster Mapping	1:10,000	2011	18

Russian Map - Slice A



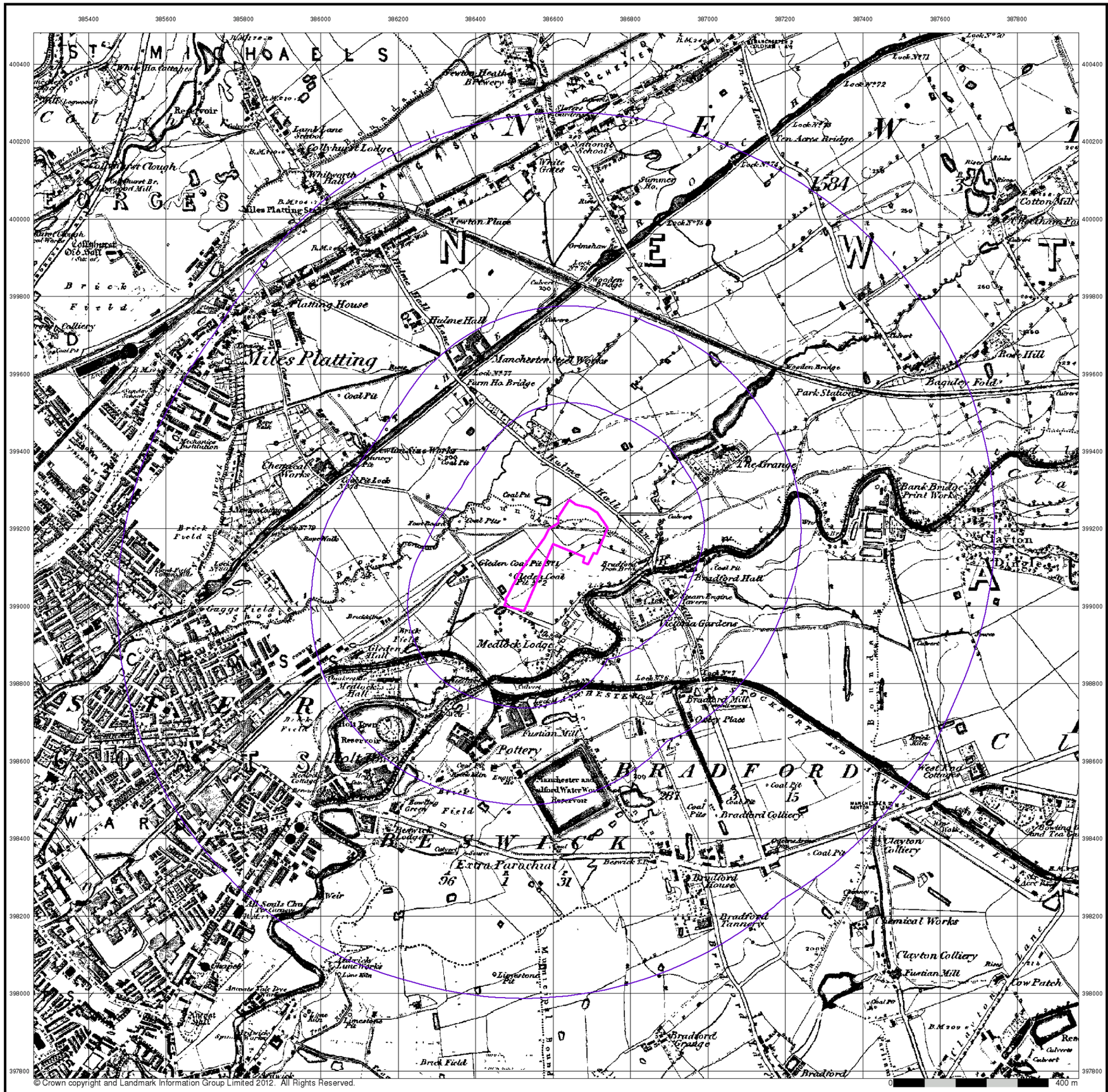
Order Details

Order Number: 39314891_1_1
Customer Ref: A074754-28
National Grid Reference: 386600, 399130
Slice: A
Site Area (Ha): 2.38
Search Buffer (m): 1000

Site Details

Site at 386580, 399170

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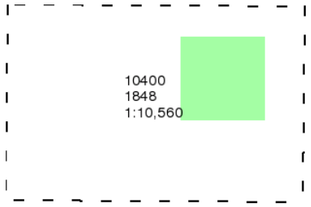
Lancashire And Furness

Published 1848

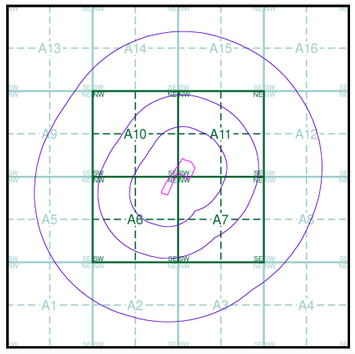
Source map scale - 1:10,560

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Map Name(s) and Date(s)



Historical Map - Slice A



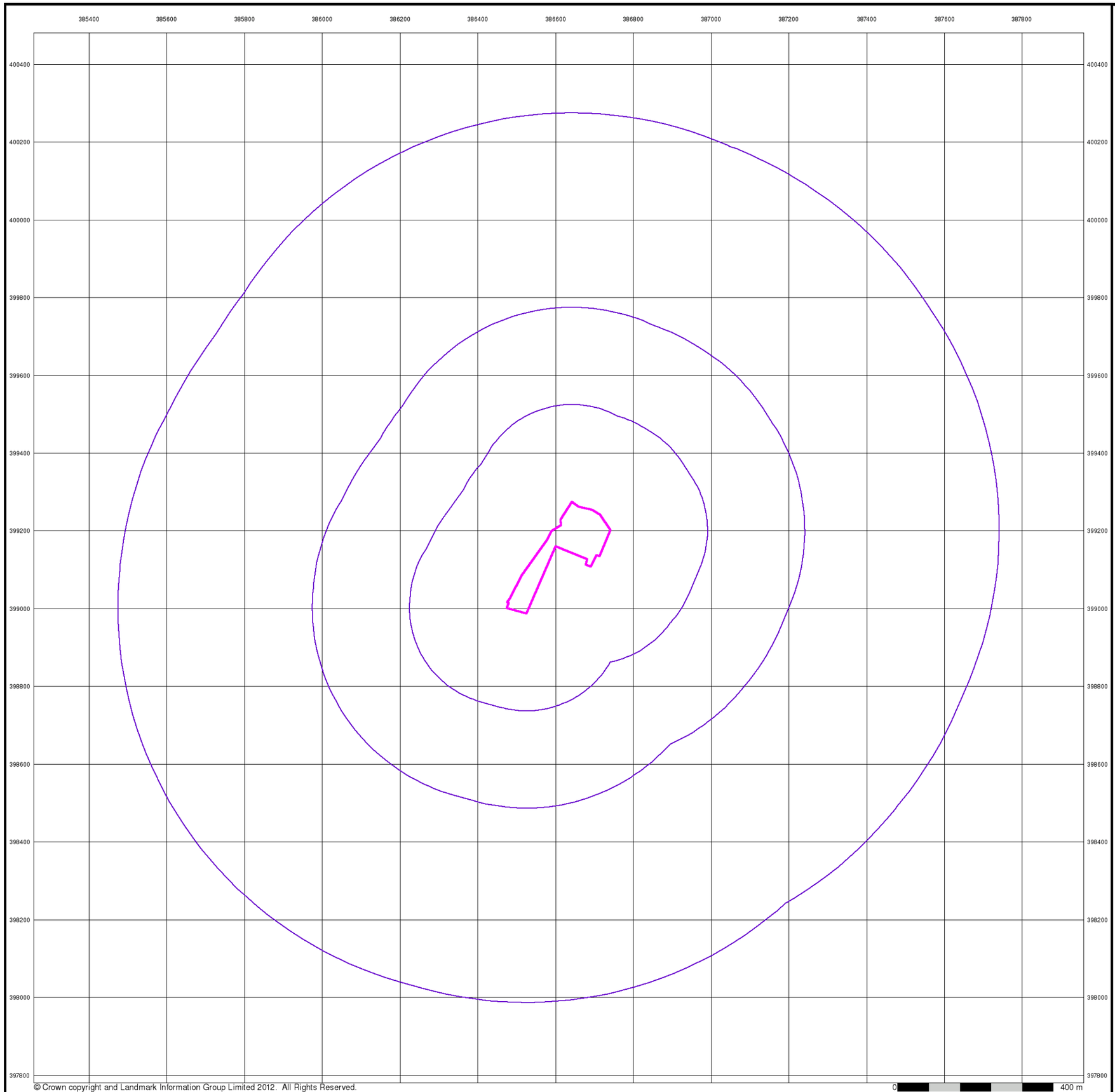
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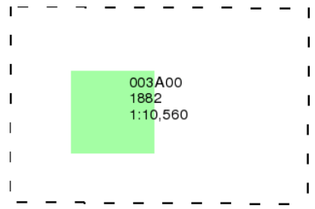
Cheshire

Published 1882

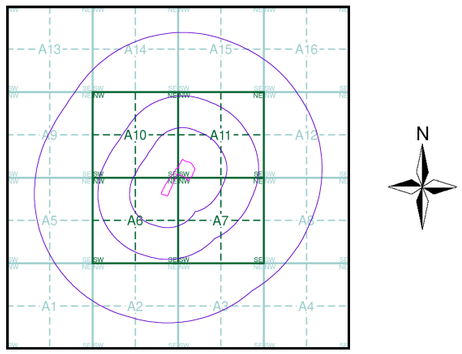
Source map scale - 1:10,560

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 A



Order Details

Order Number:	39314891_1_1
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Slice:	A
Site Area (Ha):	2.38
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Lancashire And Furness

Published 1894

Source map scale - 1:10,560

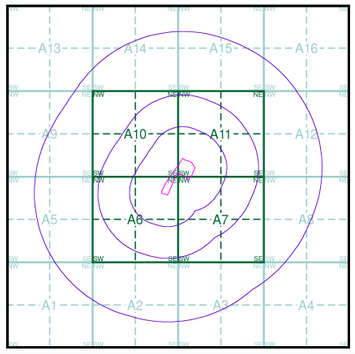
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some 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)

104NE
1894
1:10,560

104SE
1894
1:10,560

Historical Map - Slice A



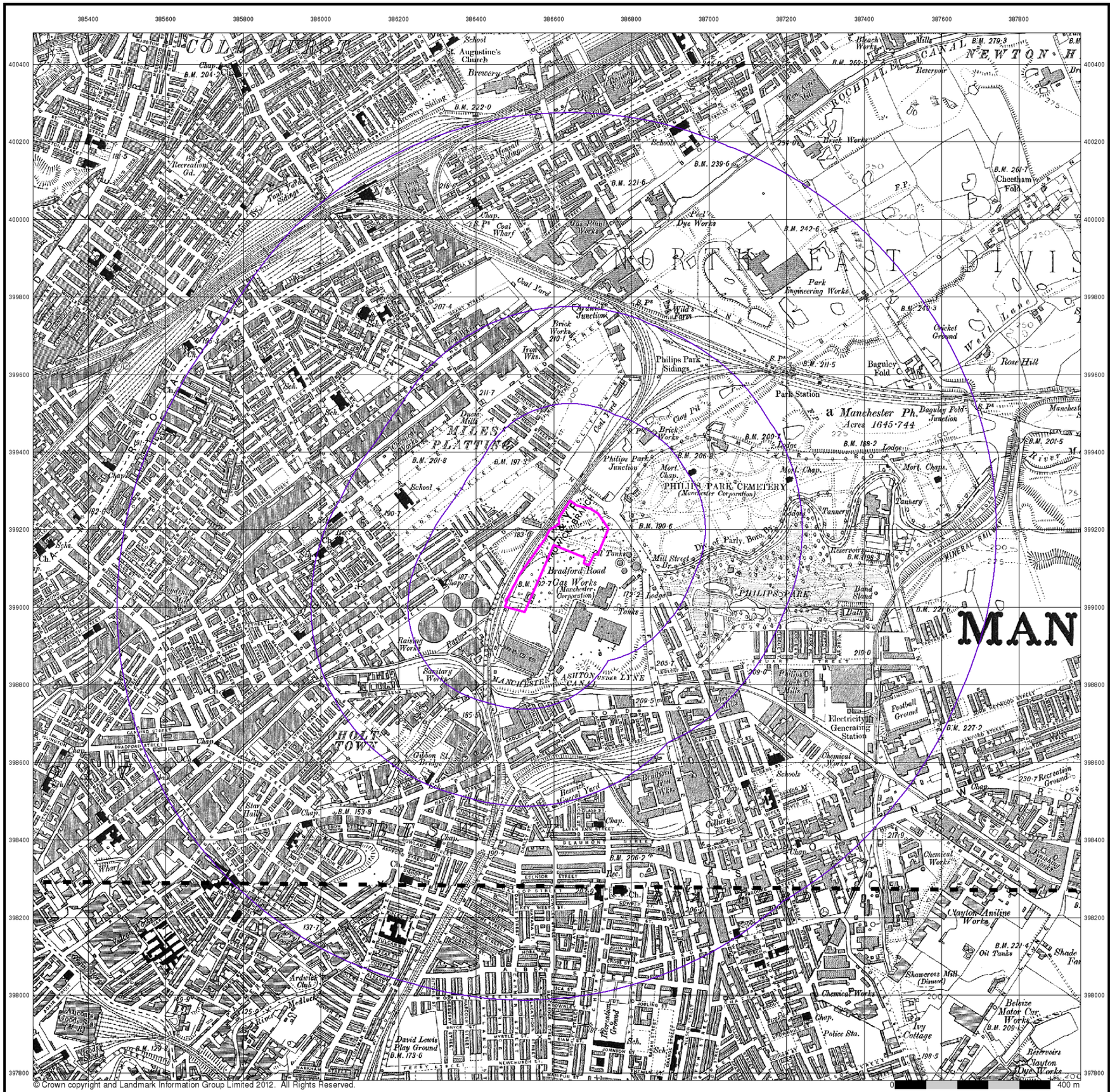
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Lancashire And Furness

Published 1909

Source map scale - 1:10,560

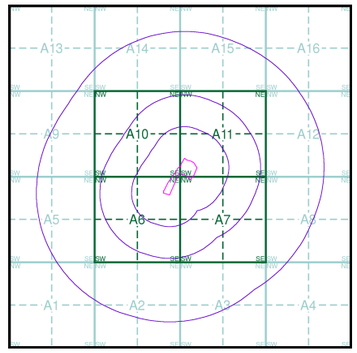
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some 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)

104NE
1909
1:10,560

104SE
1909
1:10,560

Historical Map - Slice A



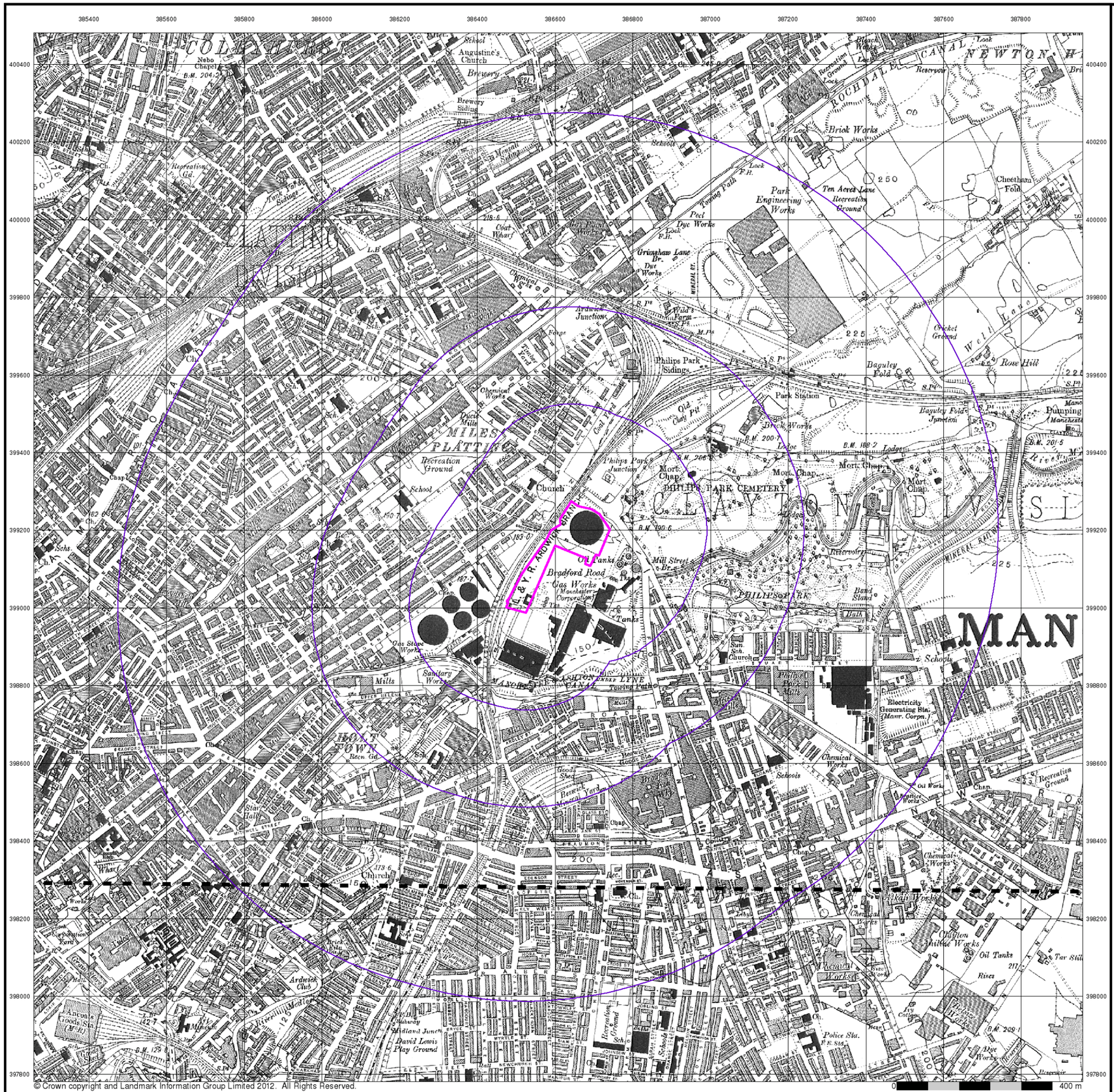
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Search Buffer (m):	1000

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Lancashire And Furness

Published 1923

Source map scale - 1:10,560

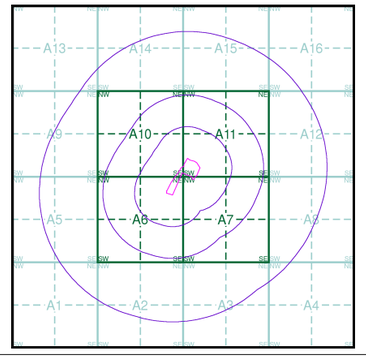
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some 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)

104NE
1923
1:10,560

104SE
1923
1:10,560

Historical Map - Slice A



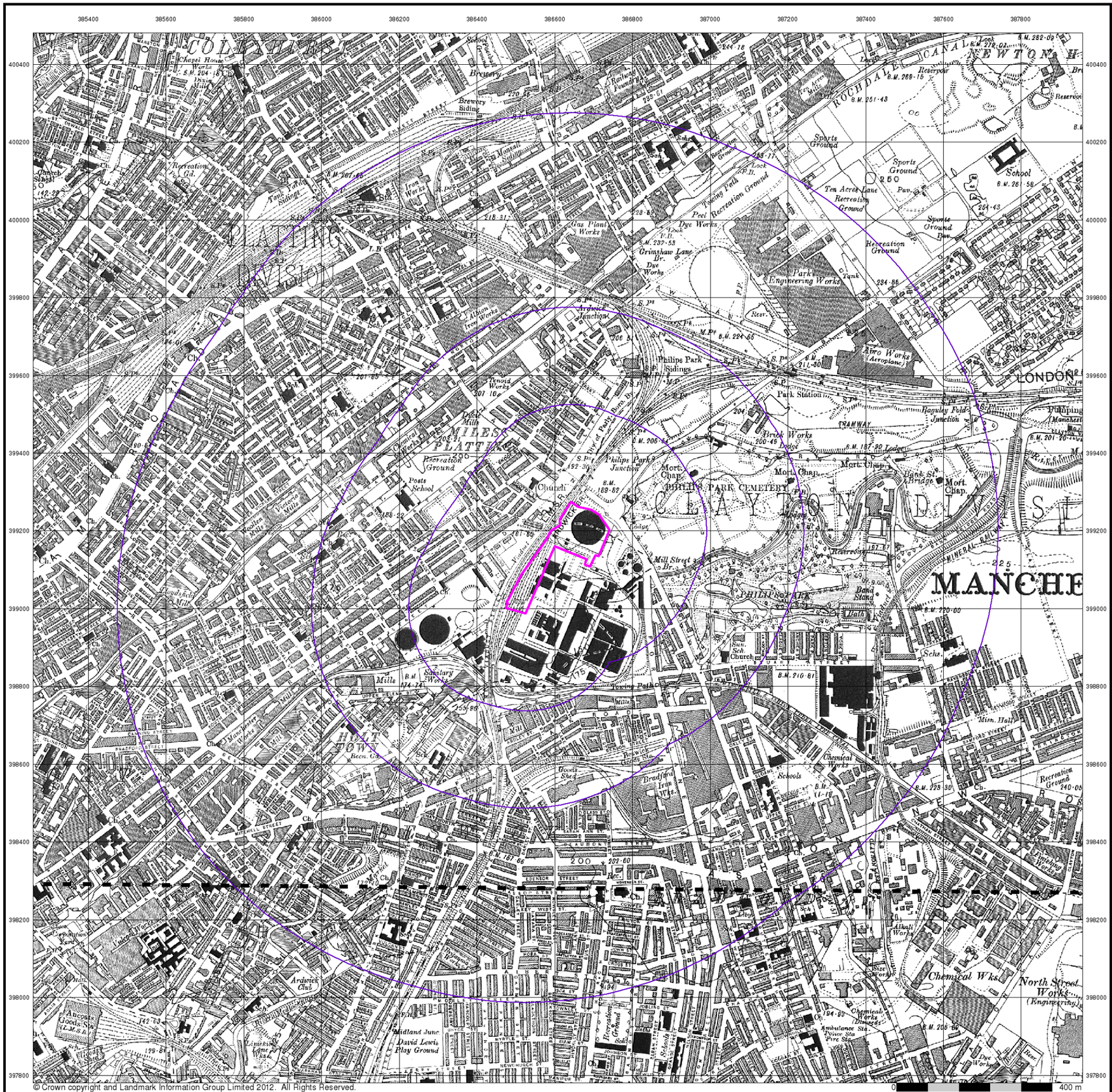
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Customer Ref:	A074754-28
National Grid Reference:	386600, 399130
Slice:	A
Site Area (Ha):	2.38
Search Buffer (m):	1000

Site Details

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Lancashire And Furness

Published 1932 - 1933

Source map scale - 1:10,560

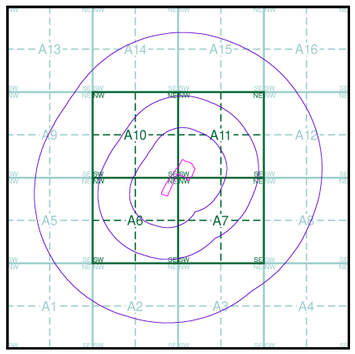
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Map Name(s) and Date(s)

104NE
1932
1:10,560

104SE
1933
1:10,560

Historical Map - Slice A



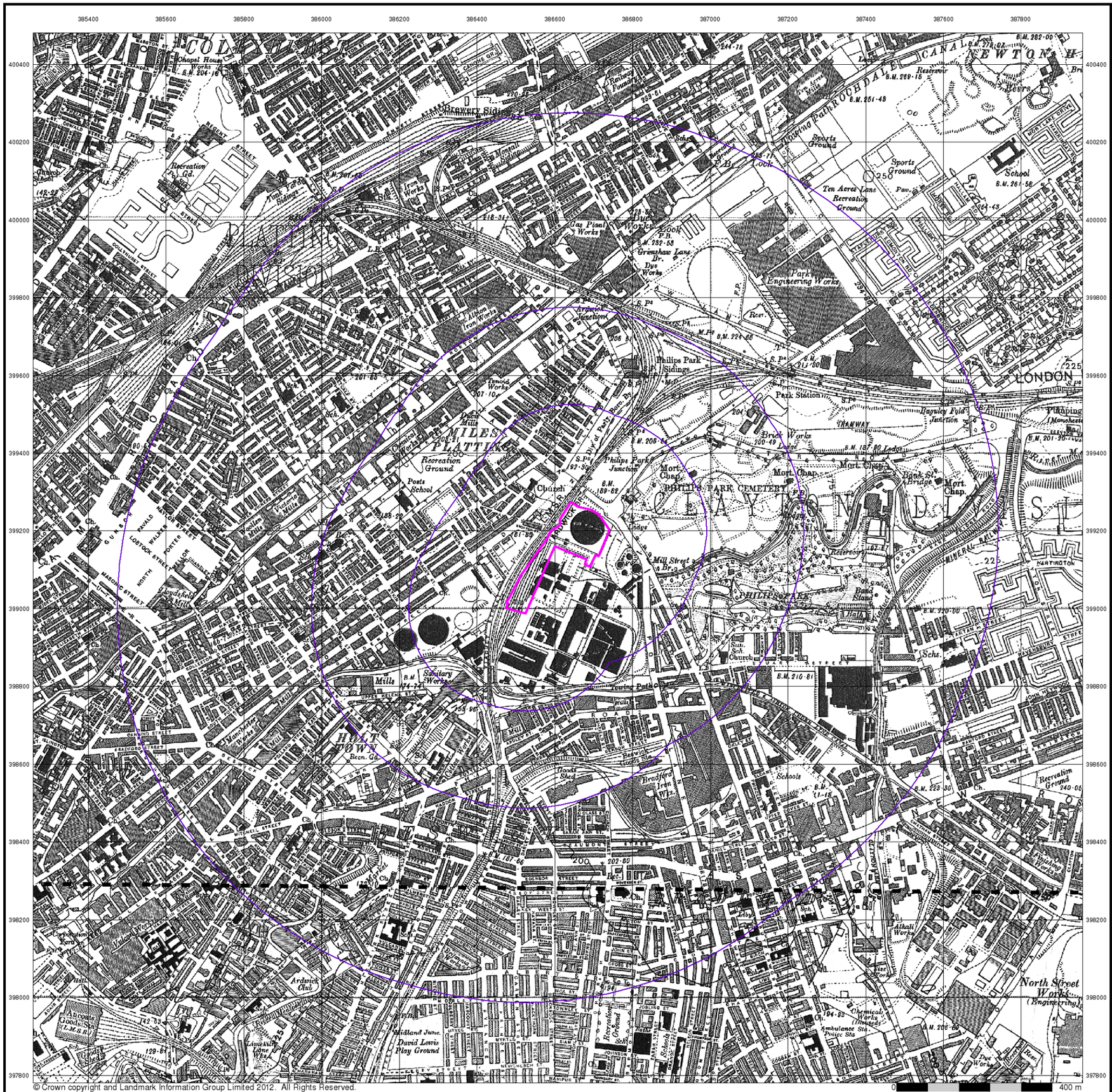
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Site Area (Ha):	2.38
Search Buffer (m):	1000

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Lancashire And Furness

Published 1938

Source map scale - 1:10,560

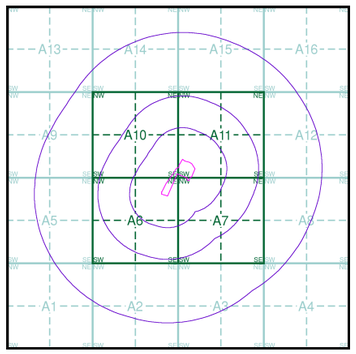
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Map Name(s) and Date(s)

104NE
1938
1:10,560

104SE
1938
1:10,560

Historical Map - Slice A



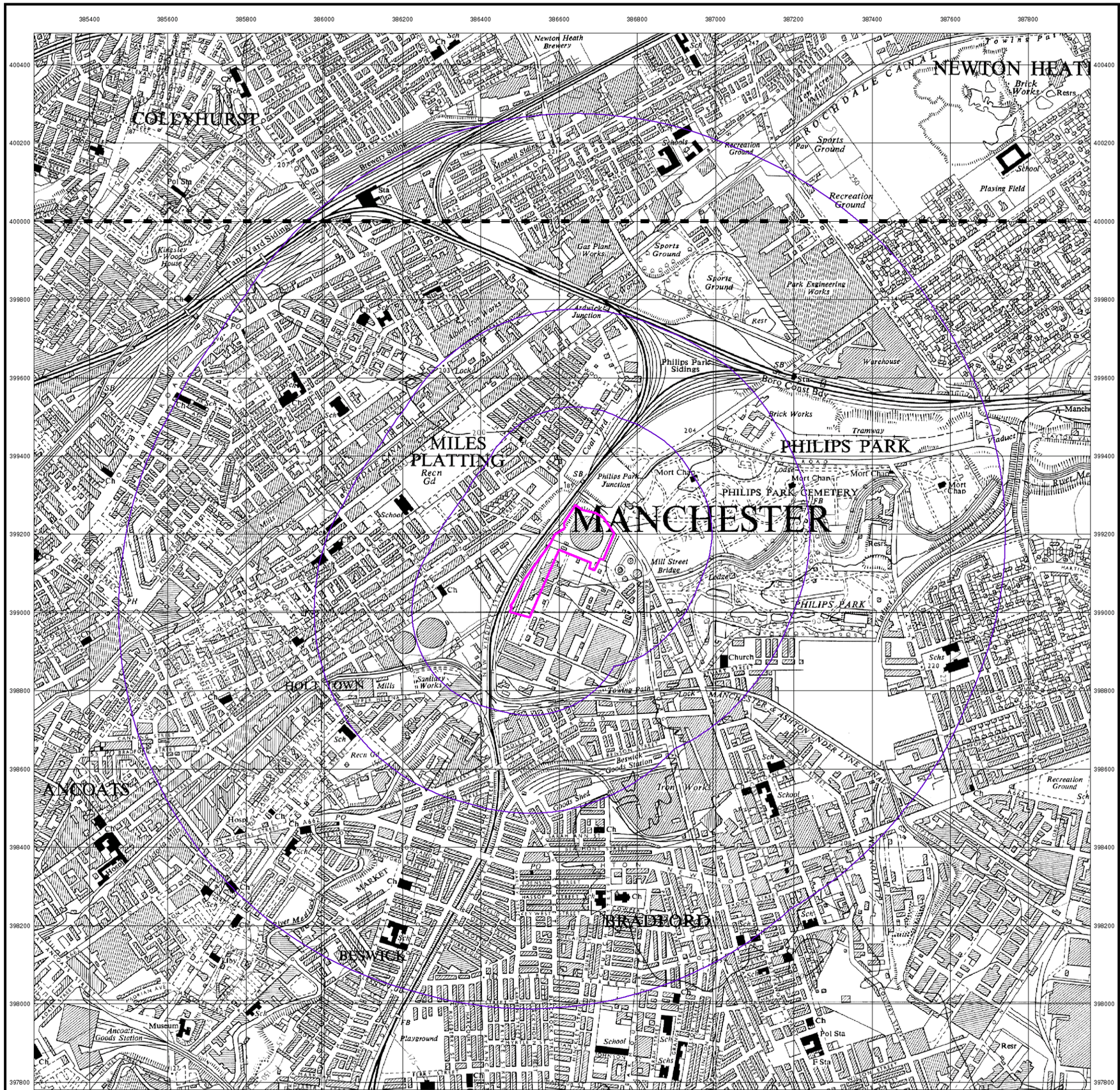
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Search Buffer (m):	1000

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0 400 m

Ordnance Survey Plan

Published 1956

Source map scale - 1:10,000

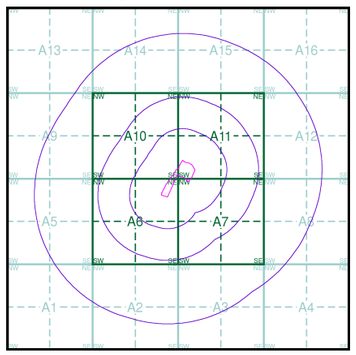
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Map Name(s) and Date(s)

SD80SE
1956
1:10,560

SJ89NE
1956
1:10,560

Historical Map - Slice A



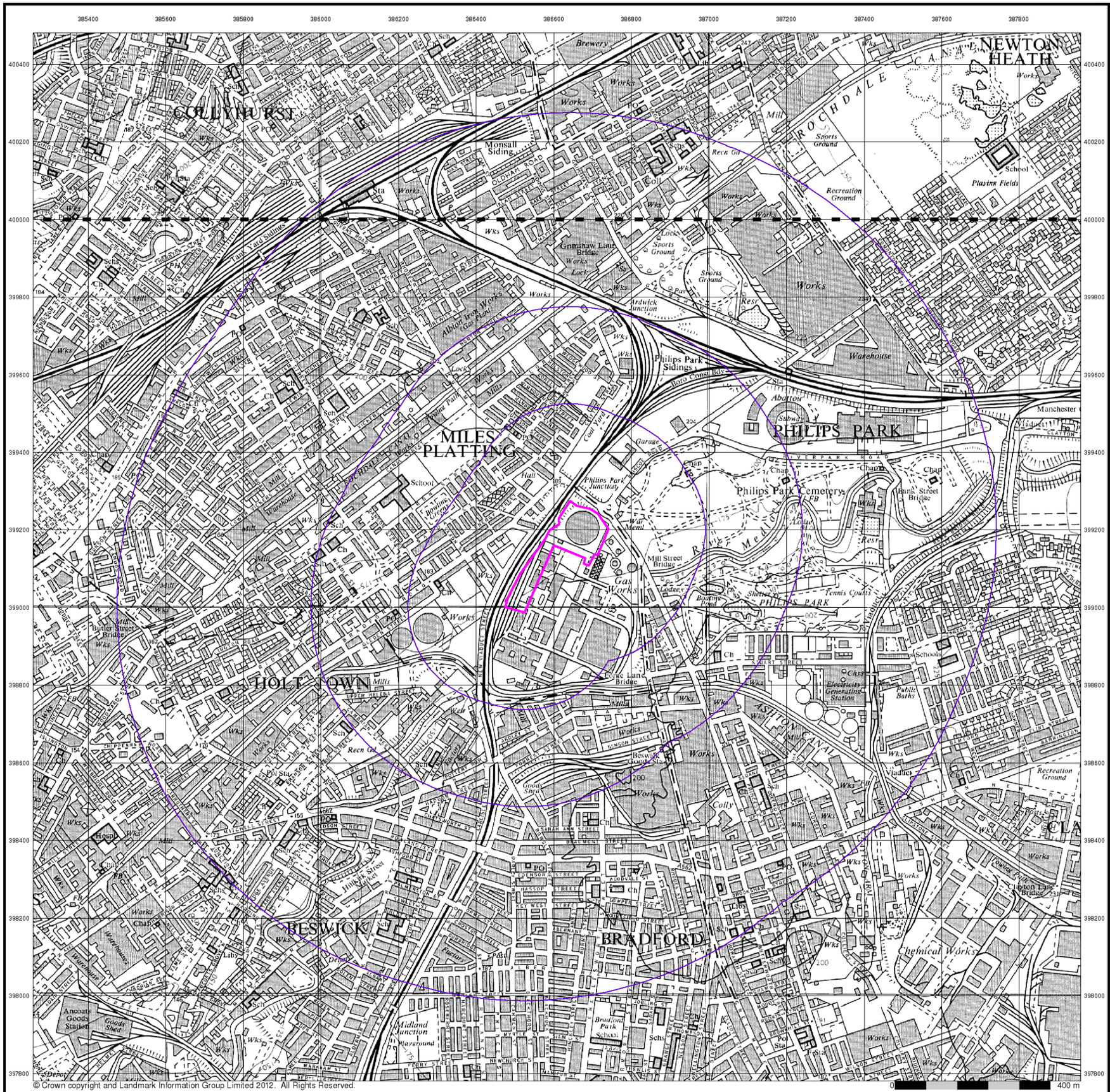
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Ordnance Survey Plan

Published 1966 - 1968

Source map scale - 1:10,000

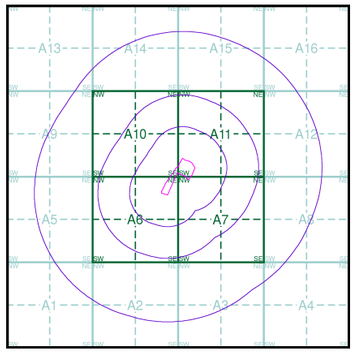
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Map Name(s) and Date(s)

SD80SE
1966
1:10,560

SJ89NE
1968
1:10,560

Historical Map - Slice A



Order Details

Order Number:	39314891_1_1
Customer Ref:	A074754-28
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Site Area (Ha):	2.38
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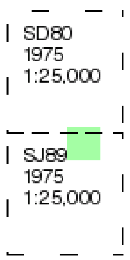
Manchester

Published 1975

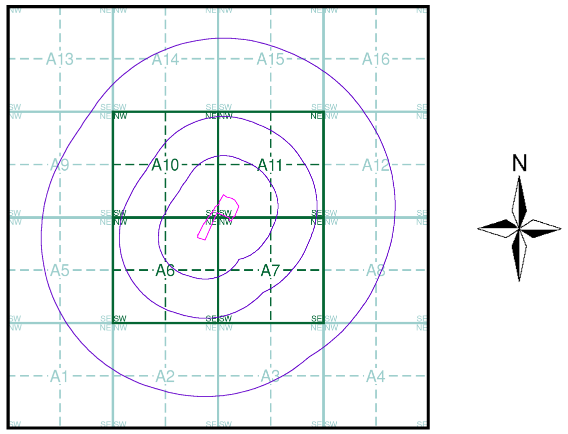
Source map scale - 1:25,000

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 A



Order Details

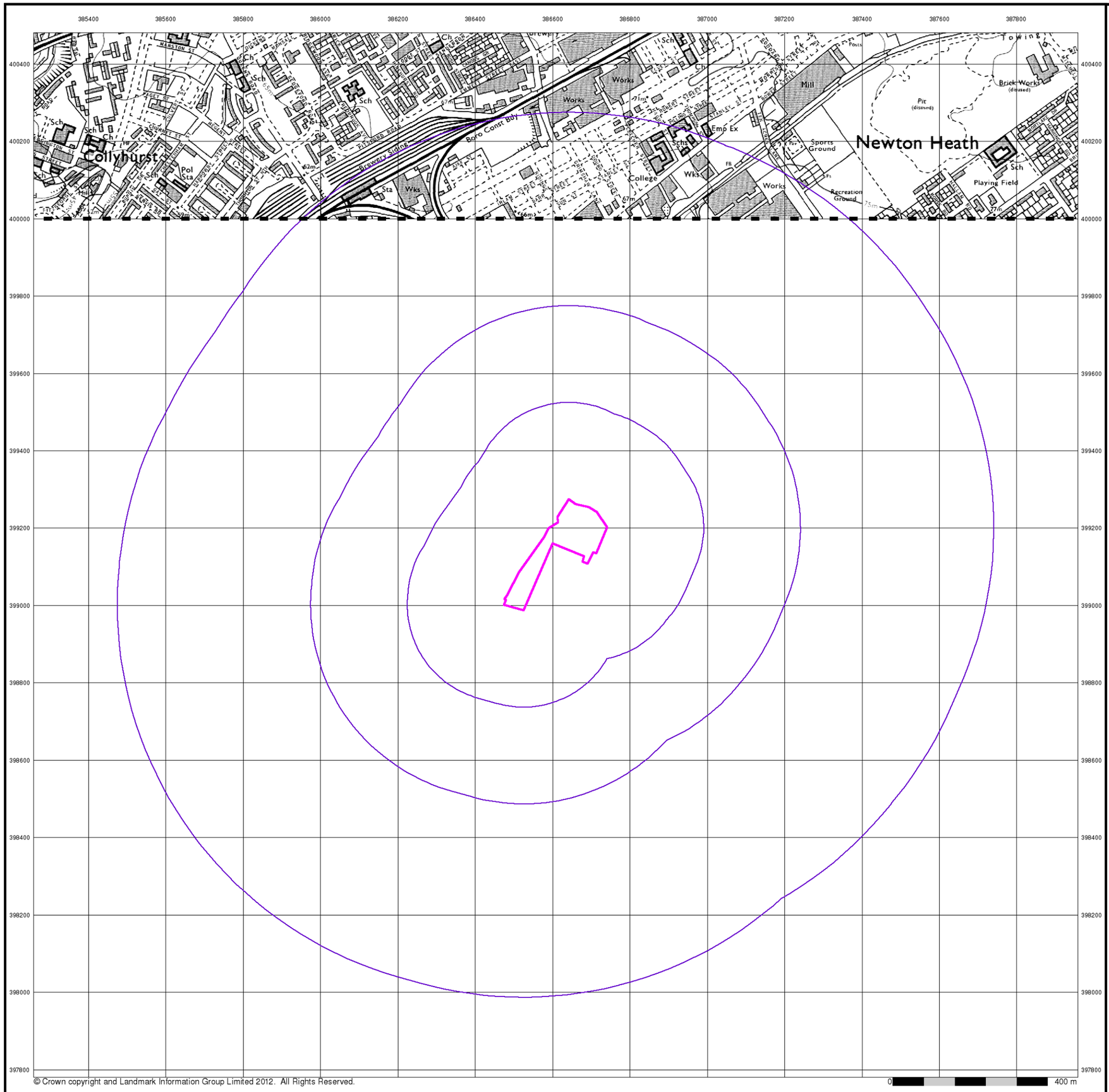
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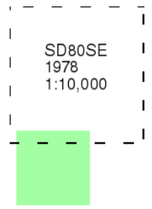
Ordnance Survey Plan

Published 1978

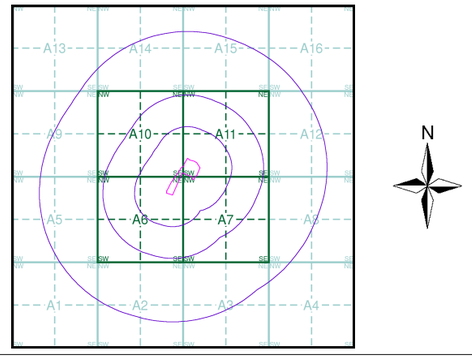
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The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. 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 A



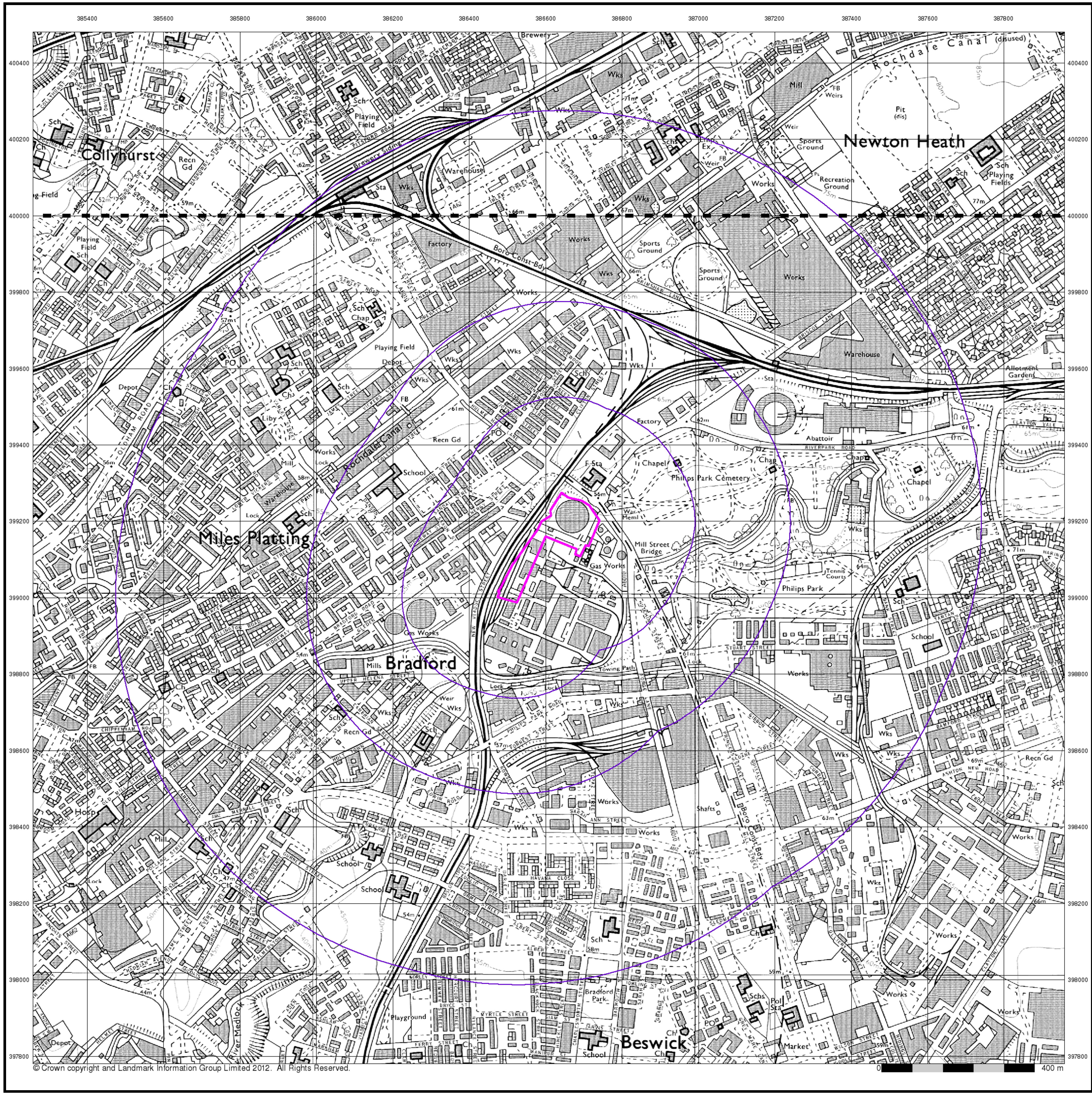
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National Grid Reference:	386600, 399130
Slice:	A
Site Area (Ha):	2.38
Search Buffer (m):	1000

Site Details

Site at 386580, 399170

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Ordnance Survey Plan

Published 1981 - 1982

Source map scale - 1:10,000

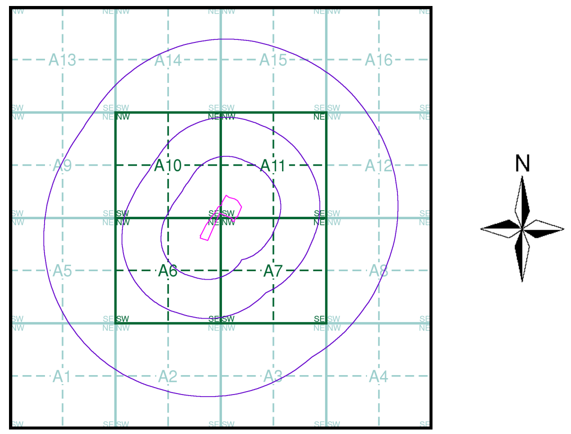
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Map Name(s) and Date(s)

SD80SE
1982
1:10,000

SJ89NE
1981
1:10,000

Historical Map - Slice A



Order Details

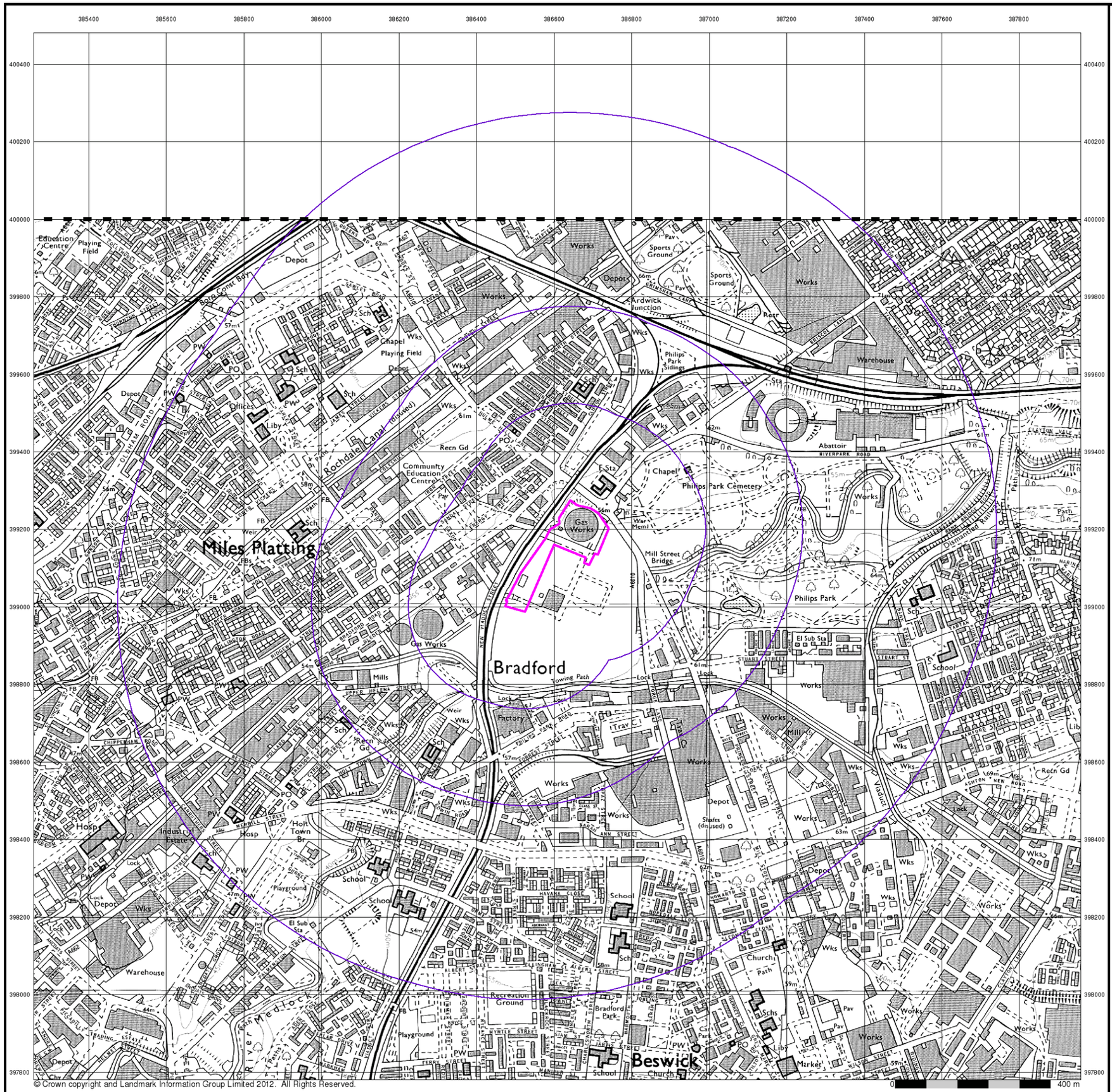
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National Grid Reference:	386600, 399130
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Site Area (Ha):	2.38
Search Buffer (m):	1000

Site Details

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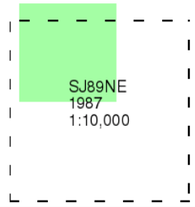
Ordnance Survey Plan

Published 1987

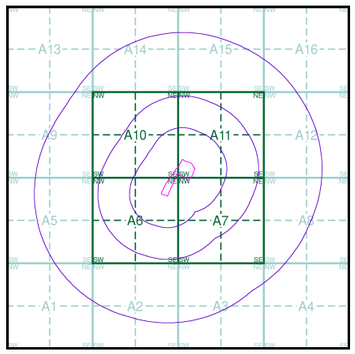
Source map scale - 1:10,000

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 A



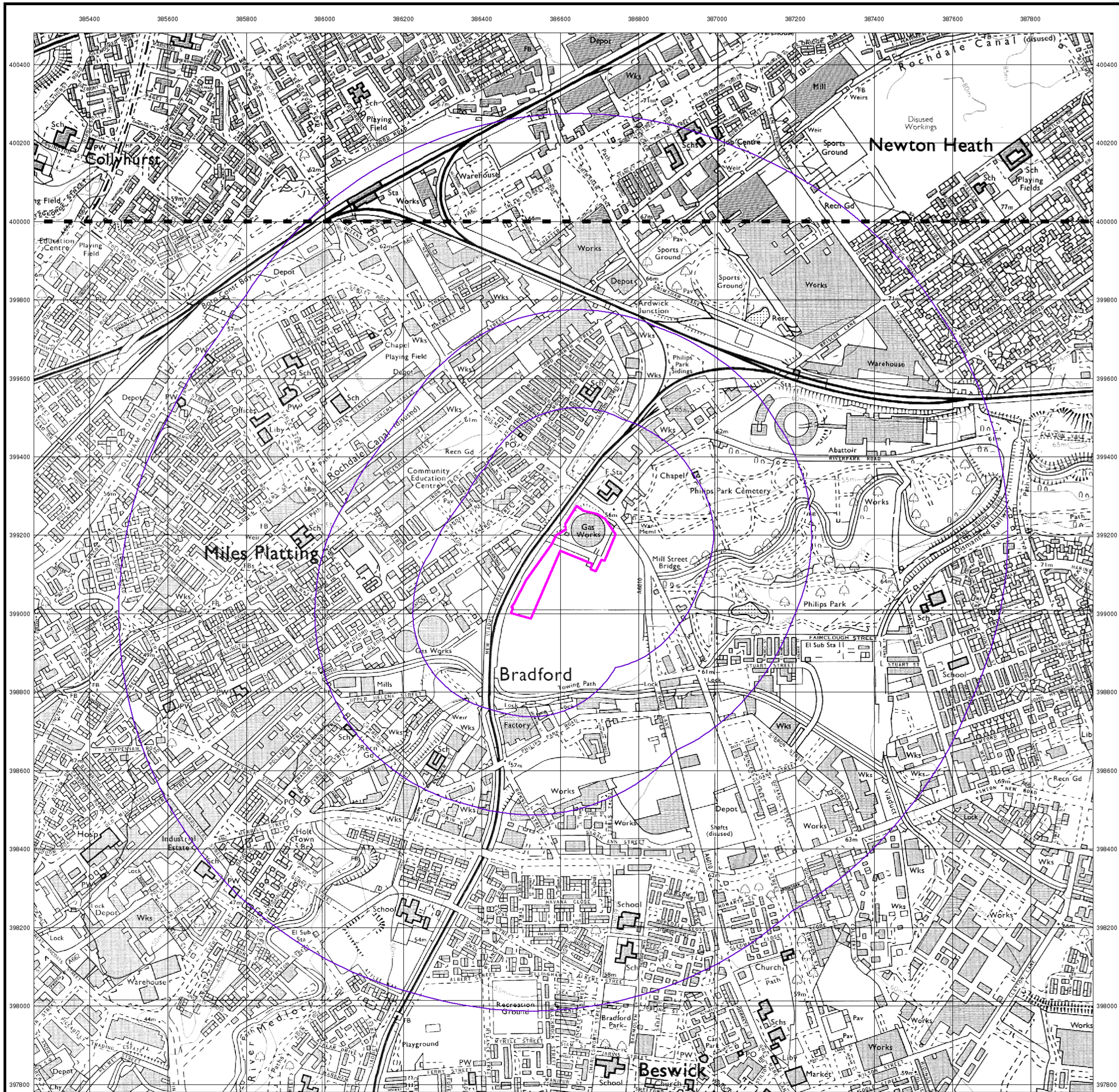
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Slice:	A
Site Area (Ha):	2.38
Search Buffer (m):	1000

Site Details

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Ordnance Survey Plan

Published 1990 - 1993

Source map scale - 1:10,000

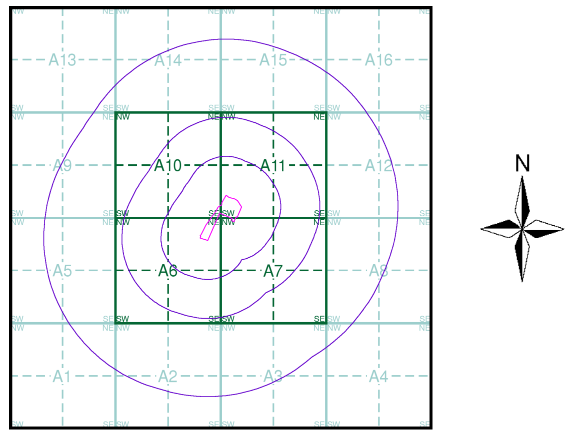
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some 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.

Map Name(s) and Date(s)

SD80SE
1990
1:10,000

SJ89NE
1993
1:10,000

Historical Map - Slice A



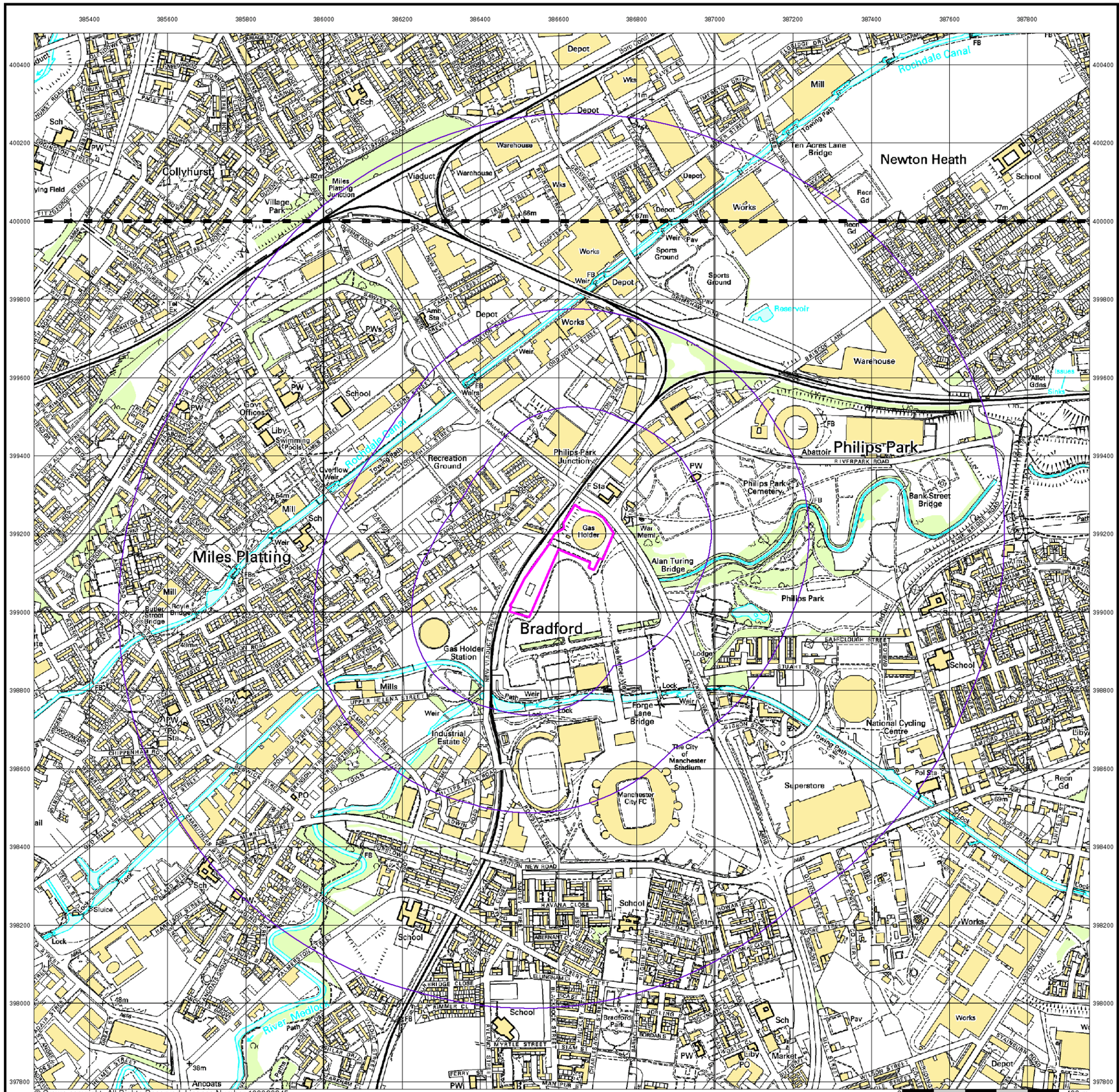
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Site Area (Ha): 2.38
Search Buffer (m): 1000

Site Details

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10k Raster Mapping

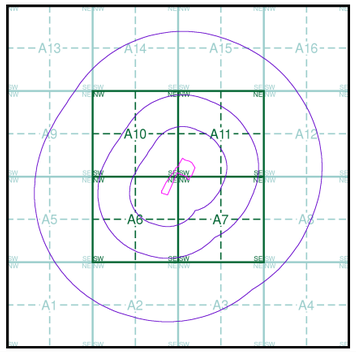
Published 2006

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 A



Order Details

Order Number:	39314891_1_1
Customer Ref:	A074754-28
National Grid Reference:	386600, 399130
Slice:	A
Site Area (Ha):	2.38
Search Buffer (m):	1000

Site Details

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10k Raster Mapping

Published 2011

Source map scale - 1:10,000

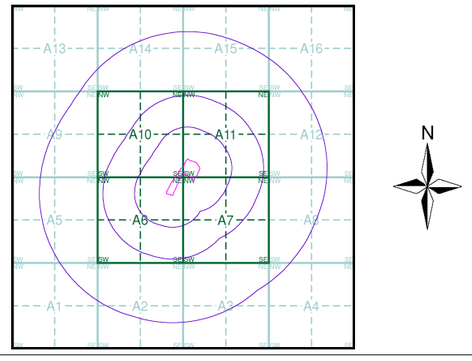
The historical maps shown were produced from the Ordnance Survey`s 1:10,000 colour raster mapping. These maps are derived from Landplan which replaced the old 1:10,000 maps originally published in 1970. The data is highly detailed showing buildings, fences and field boundaries as well as all roads, tracks 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)

SD80SE
2011
1:10,000

SJ89NE
2011
1:10,000

Historical Map - Slice A



Order Details

Order Number:	39314891_1_1
Customer Ref:	A074754-28
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Search Buffer (m):	1000

Site Details

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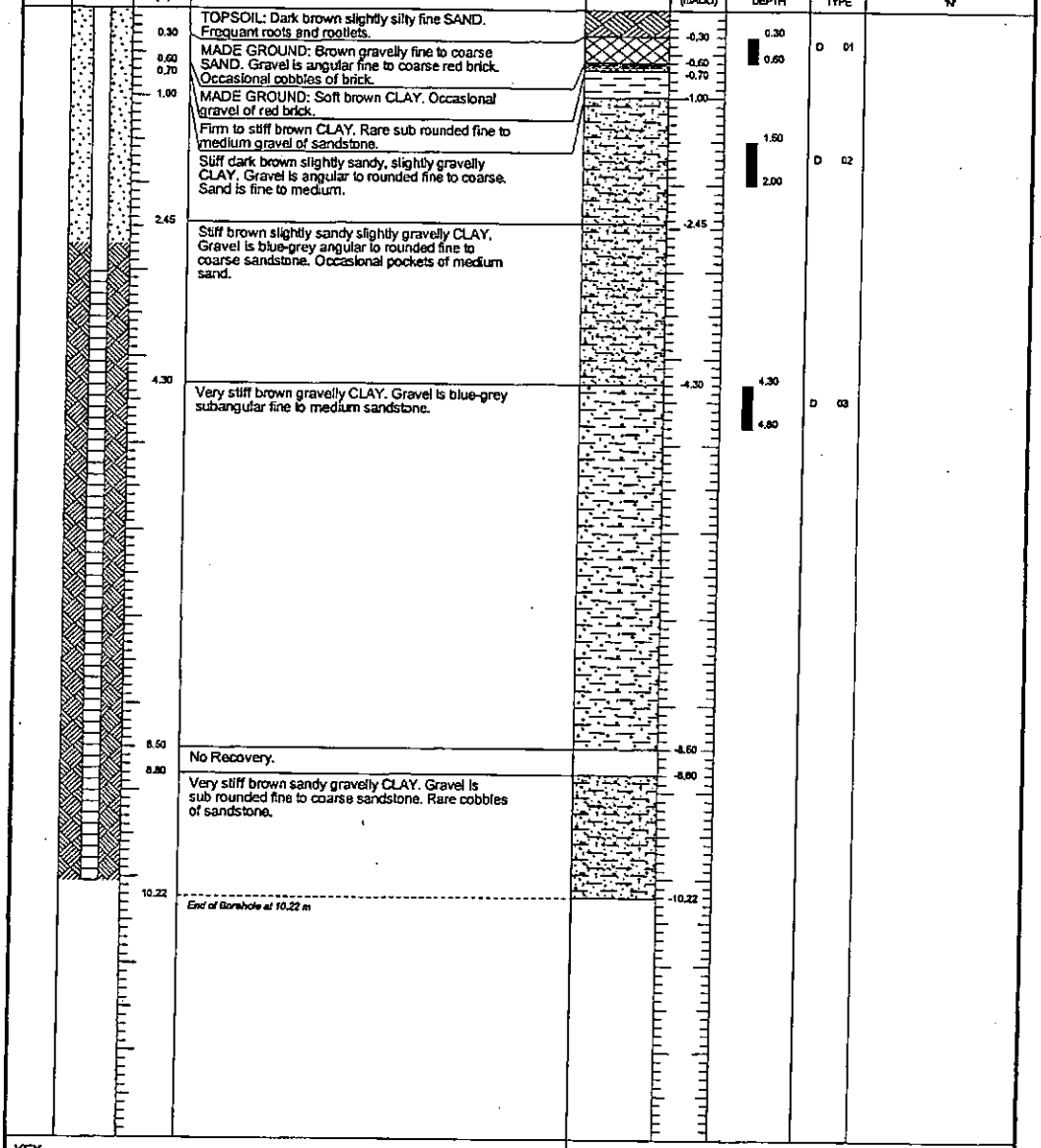
Appendix F – WSP 2003 Site Investigation

Appendix F1 – Exploratory Hole Logs

APPENDIX E

BOREHOLE AND TRIAL PIT LOGS – HOLDER SITE

PROJECT	Bradford Road Gasworks	**BOREHOLE No**	BH01
CLIENT	SecondSite Property Holdings Ltd	DATE	10 June 2003
METHOD	Dynamic sampling/rotary	PROJECT No	13010222



KEY

Sample Types :
U - Undisturbed
D - Disturbed
B - Bulk
W - Water
SPT - SPT Spoon

Water Levels :
Water Strike
Water Level

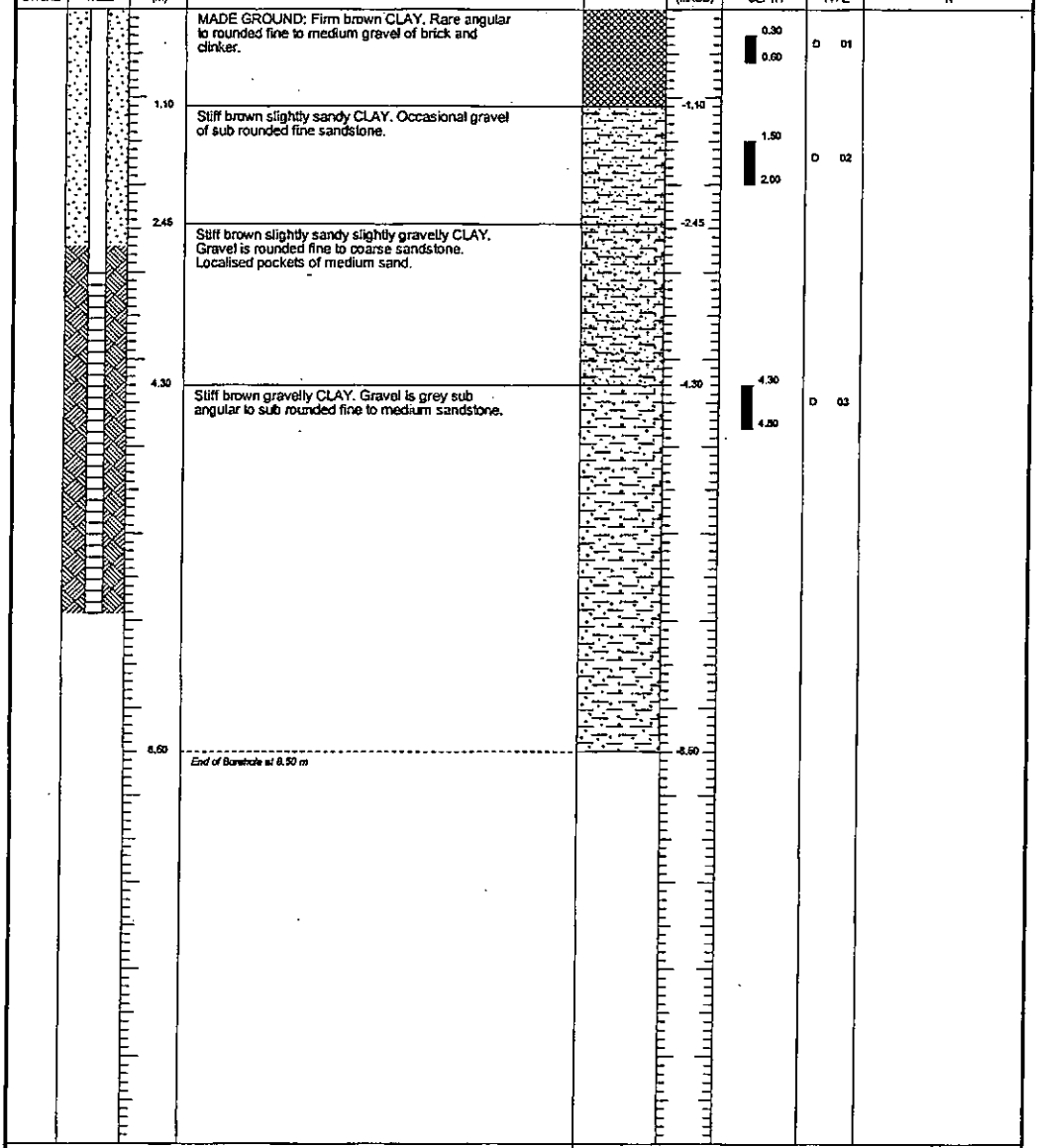
In Situ Tests :
S - Standard Penetration Test
C - Cone Penetration Test

REMARKS
No groundwater encountered No visual/olfactory evidence of contamination.

EASTING	NORTHING	GROUND LEVEL (mAOD)
0.00	0.00	
LOGGED BY	SCALE	
	1:65	Sheet 1 of 1

WSP ENVIRONMENTAL

PROJECT	Bradford Road Gasworks	BOREHOLE No	BH02
CLIENT	SecondSite Property Holdings Ltd	DATE	10 June 2003
METHOD	Dynamic sampling/rotary	PROJECT No	13010222



GROUNDWATER STRIKE	GROUNDWATER WELL	DEPTH (m)	DESCRIPTION	LEGEND	LEVEL (mAOD)	SAMPLES & TESTS DEPTH	SAMPLES & TESTS TYPE	SPT 'N'
			MADE GROUND: Firm brown CLAY. Rare angular to rounded fine to medium gravel of brick and clinker.			0.30	D 01	
		1.10			-1.10	0.60		
			Stiff brown slightly sandy CLAY. Occasional gravel of sub rounded fine sandstone.			1.50	D 02	
		2.45			-2.45	2.00		
			Stiff brown slightly sandy slightly gravelly CLAY. Gravel is rounded fine to coarse sandstone. Localised pockets of medium sand.					
		4.30			-4.30	4.30	D 03	
			Stiff brown gravelly CLAY. Gravel is grey sub angular to sub rounded fine to medium sandstone.			4.50		
		8.50	*End of Borehole at 8.50 m*		-8.50			

KEY

Sample Types :
U - Undisturbed
D - Disturbed
B - Bulk
W - Water
SPT - SPT Spoon

Water Levels :
▽ Water Strike
▼ Water Level

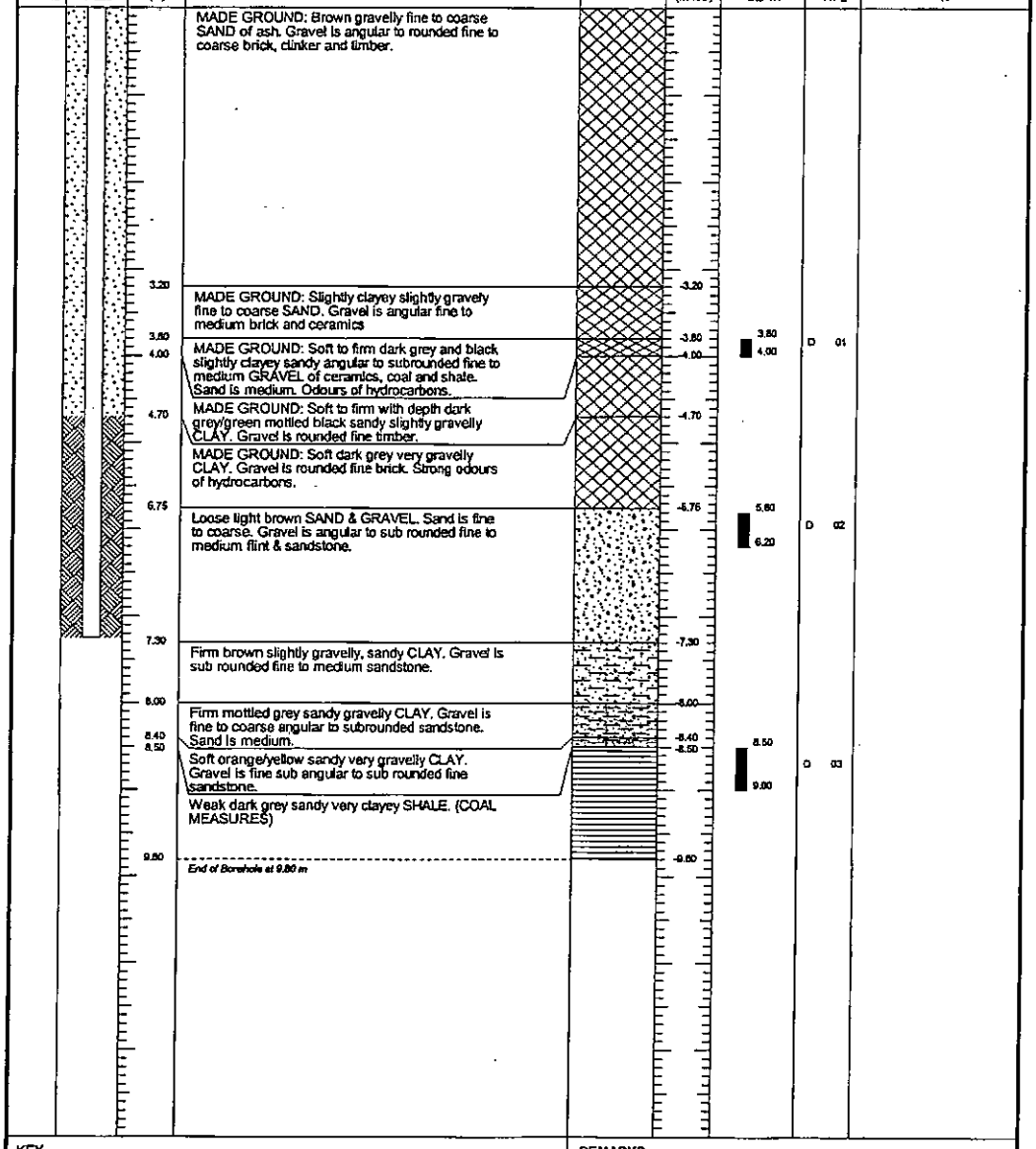
In Situ Tests :
S - Standard Penetration Test
C - Cone Penetration Test

REMARKS
No groundwater encountered. No visual or olfactory signs of contamination.

EASTING	NORTHING	GROUND LEVEL (mAOD)
0.00	0.00	
LOGGED BY	SCALE	
CR	1:65	Sheet 1 of 1

WSP ENVIRONMENTAL

PROJECT	Bradford Road Gasworks	**BOREHOLE No**	BH03
CLIENT	SecondSite Property Holdings Ltd	DATE	12 June 2003
METHOD	Dynamic sampling/rotary	PROJECT No	13010222



KEY

Sample Types :
U - Undisturbed
D - Disturbed
B - Bulk
W - Water
SPT - SPT Spoon

Water Levels :
Water Strike
Water Level

In Situ Tests :
S - Standard Penetration Test
C - Cone Penetration Test

REMARKS
No groundwater encountered.

EASTING	NORTHING	GROUND LEVEL (mAOD)
0.00	0.00	
LOGGED BY	SCALE	
CR	1:65	Sheet 1 of 1

WSP ENVIRONMENTAL

PROJECT	Bradford Road Gasworks	BOREHOLE No	TP01
CLIENT	SecondSite Property Holdings Ltd	DATE	10 June 2003
METHOD	Hole excavated to 2.5 m depth using JCB.	PROJECT No	13010222

GROUNDWATER STRIKE	GROUNDWATER WELL	DEPTH (m)	DESCRIPTION	LEGEND	LEVEL (mAOD)	SAMPLES & TESTS DEPTH	SAMPLES & TESTS TYPE	SPT 'N'
		0.10	MADE GROUND: Loose angular to rounded medium GRAVEL.		-0.10	0.10	D	
		0.30	MADE GROUND: Black gravelly slightly sandy slightly gravelly CLAY. Gravel is angular medium clinker. Sand is ash.		-0.30	0.30		
			Stiff dark brown slightly gravelly slightly sandy CLAY.			2.00	D	
		2.50	*End of Borehole at 2.50 m*		-2.50	2.50		

KEY

Sample Types :
U - Undisturbed
D - Disturbed
B - Bulk
W - Water
SPT - SPT Spoon

Water Levels :
Water Strike
Water Level

In Situ Tests :
S - Standard Penetration Test
C - Cone Penetration Test

REMARKS

EASTING	NORTHING	GROUND LEVEL (mAOD)
0.00	0.00	
LOGGED BY	SCALE	
CR	1:65	Sheet 1 of 1

WSP ENVIRONMENTAL

PROJECT	Bradford Road Gasworks	BOREHOLE No	TP02
CLIENT	SecondSite Property Holdings Ltd	DATE	10 June 2003
METHOD	Trial pit excavated to 1.5 m depth using JCB.	PROJECT No	13010222

GROUNDWATER STRIKE	GROUNDWATER WELL	DEPTH (m)	DESCRIPTION	LEGEND	LEVEL (mAOD)	SAMPLES & TESTS DEPTH	SAMPLES & TESTS TYPE	SPT 'N'
0.70 ▽ 0.70		0.01	MADE GROUND: Tarmacadam		-0.01	0.10	D 01	
		0.10	MADE GROUND: Square stone paving.		-0.10	0.50		
		0.50	MADE GROUND (Fill) - Black gravelly SAND of ash. Gravel is angular medium clinker.		-0.50			
		0.70	MADE GROUND: Brick fill		-0.70			
			Stiff dark brown slightly sandy, slightly gravelly CLAY.					
		1.50	*End of Borehole at 1.50 m*		-1.50			

KEY

Sample Types :
U - Undisturbed
D - Disturbed
B - Bulk
W - Water
SPT - SPT Spoon

Water Levels :
▽ Water Strike
▼ Water Level

In Situ Tests :
S - Standard Penetration Test
C - Cone Penetration Test

REMARKS
Trial pit Length: 1.5m Width: 0.5m Depth: 1.5m. Water present as slight seepage above Clay (0.7m).

EASTING	NORTHING	GROUND LEVEL (mAOD)
0.00	0.00	
LOGGED BY	SCALE	
CR	1:65	Sheet 1 of 1

WSP ENVIRONMENTAL

PROJECT	Bradford Road Gasworks	BOREHOLE No	TP03
CLIENT	SecondSite Property Holdings Ltd	DATE	10 June 2003
METHOD	Excavated using JCB to 2 m depth.	PROJECT No	13010222

GROUNDWATER STRIKE	GROUNDWATER WELL	DEPTH (m)	DESCRIPTION	LEGEND	LEVEL (mAOD)	SAMPLES & TESTS DEPTH	SAMPLES & TESTS TYPE	SPT 'N'
0.40 ▽ 0.40		0.40	MADE GROUND: Brick and concrete foundations		-0.40	0.50	D 01	
			Very stiff brown, slightly sandy, slightly gravelly CLAY.			1.00		
		2.00	*End of Borehole at 2.00 m*		-2.00			

KEY

Sample Types :
U - Undisturbed
D - Disturbed
B - Bulk
W - Water
SPT - SPT Spoon

Water Levels :
▽ Water Strike
▼ Water Level

In Situ Tests :
S - Standard Penetration Test
C - Cone Penetration Test

REMARKS
Very difficult to excavate due to stiffness of ground.
Slight seepage at 0.4m perched on clay.

EASTING	NORTHING	GROUND LEVEL (mAOD)
0.00	0.00	
LOGGED BY	SCALE	
SR	1:65	Sheet 1 of 1

WSP ENVIRONMENTAL

PROJECT	Bradford Road Gasworks	BOREHOLE No	TP04
CLIENT	SecondSite Property Holdings Ltd	DATE	10 June 2003
METHOD	Hole excavated using JCB to 3.0 m depth.	PROJECT No	13010222

GROUNDWATER STRIKE	GROUNDWATER WELL	DEPTH (m)	DESCRIPTION	LEGEND	LEVEL (mAOD)	SAMPLES & TESTS DEPTH	SAMPLES & TESTS TYPE	SPT 'N'
		0.30	MADE GROUND: Brick footing		-0.30	0.30	D 01	
		0.50	MADE GROUND: Black gravelly clayey fine to medium SAND of ash. Gravel is angular medium clinker		-0.50	0.50		
			Brown stiff to very stiff slightly sandy slightly gravelly CLAY			2.50	D 02	
		3.00	*End of Borehole at 3.00 m*		-3.00	3.00		

KEY

Sample Types :
U - Undisturbed
D - Disturbed
B - Bulk
W - Water
SPT - SPT Spoon

Water Levels :
Water Strike
Water Level

In Situ Tests :
S - Standard Penetration Test
C - Cone Penetration Test

REMARKS

EASTING	NORTHING	GROUND LEVEL (mAOD)
0.00	0.00	
LOGGED BY	SCALE	
SR	1:65	Sheet 1 of 1

WSP ENVIRONMENTAL

PROJECT	Bradford Road Gasworks	BOREHOLE No	TP05
CLIENT	SecondSite Property Holdings Ltd	DATE	10 June 2003
METHOD	Excavated using JCB to 3.2 m depth.	PROJECT No	13010222

GROUNDWATER STRIKE	GROUNDWATER WELL	DEPTH (m)	DESCRIPTION	LEGEND	LEVEL (mAOD)	SAMPLES & TESTS DEPTH	SAMPLES & TESTS TYPE	SPT 'N'
		0.40	MADE GROUND: Concrete		-0.40	0.50	D 01	
		2.30	MADE GROUND: Loose orange fine to medium SAND.		-2.30	1.00		
		2.80	MADE GROUND: Loose brown gravelly clayey fine to medium SAND		-2.80	2.80	D 02	
		3.20	Stiff brown slightly sandy, slightly gravelly CLAY		-3.20	3.20		
			End of Borehole at 3.20 m					

KEY

Sample Types :
U - Undisturbed
D - Disturbed
B - Bulk
W - Water
SPT - SPT Spoon

Water Levels :
Water Strike
Water Level

In Situ Tests :
S - Standard Penetration Test
C - Cone Penetration Test

REMARKS

EASTING	NORTHING	GROUND LEVEL (mAOD)
0.00	0.00	
LOGGED BY	SCALE	
SR	1:65	Sheet 1 of 1

WSP ENVIRONMENTAL

PROJECT	Bradford Road Gasworks	BOREHOLE No	TP06
CLIENT	SecondSite Property Holdings Ltd	DATE	10 June 2003
METHOD	Excavated using JCB to 3.2 m depth.	PROJECT No	13010222

GROUNDWATER STRIKE	GROUNDWATER WELL	DEPTH (m)	DESCRIPTION	LEGEND	LEVEL (mAOD)	SAMPLES & TESTS DEPTH	SAMPLES & TESTS TYPE	SPT 'N'
		0.50	MADE GROUND: Concrete		-0.50			
		0.80	MADE GROUND: Loose black fine to coarse SAND of ash.		-0.80			
			MADE GROUND: Brown to orange gravelly fine to coarse SAND of ash. Gravel is angular to sub rounded fine to coarse pottery, bottles, and rotten fabric. Moderate odours of diesel from 3.00 m to 3.20 m depth.			1.00 1.50	D 01	
						2.60 2.60	D 02	
		3.20	*End of Borehole at 3.20 m*		-3.20			

KEY

Sample Types :
U - Undisturbed
D - Disturbed
B - Bulk
W - Water
SPT - SPT Spoon

Water Levels :
▽ Water Strike
▼ Water Level

In Situ Tests :
S - Standard Penetration Test
C - Cone Penetration Test

REMARKS
Diesel odour from 3.00m to base of trial pit

EASTING	NORTHING	GROUND LEVEL (mAOD)
0.00	0.00	
LOGGED BY	SCALE	
SR	1:65	Sheet 1 of 1

WSP ENVIRONMENTAL

PROJECT	Bradford Road Gasworks	BOREHOLE No	TP07
CLIENT	SecondSite Property Holdings Ltd	DATE	10 June 2003
METHOD	Excavated using JCB to 2.5 m depth.	PROJECT No	13010222

GROUNDWATER STRIKE	GROUNDWATER WELL	DEPTH (m)	DESCRIPTION	LEGEND	LEVEL (mAOD)	SAMPLES & TESTS DEPTH	SAMPLES & TESTS TYPE	SPT 'N'
0.30		0.20	MADE GROUND: Concrete		-0.20			
		0.30	MADE GROUND: Loose brown SAND and GRAVEL. Sand is ash. Gravel is angular fine to medium clinker.		-0.30	0.30 0.60	D 01	
			Stiff to very stiff brown sandy gravelly CLAY			2.00 2.60	D 02	
		2.50	End of Borehole at 2.50 m		-2.50			

KEY

Sample Types :
U - Undisturbed
D - Disturbed
B - Bulk
W - Water
SPT - SPT Spoon

Water Levels :
Water Strike
Water Level

In Situ Tests :
S - Standard Penetration Test
C - Cone Penetration Test

REMARKS
Water seepage at 0.3m

EASTING	NORTHING	GROUND LEVEL (mAOD)
0.00	0.00	
LOGGED BY	SCALE	
SR	1:65	Sheet 1 of 1

WSP - ENVIRONMENTAL

PROJECT	Bradford Road Gasworks	BOREHOLE No	TP08
CLIENT	SecondSite Property Holdings Ltd	DATE	10 June 2003
METHOD	Excavated using JCB to 3.2 m depth.	PROJECT No	13010222

GROUNDWATER STRIKE	GROUNDWATER WELL	DEPTH (m)	DESCRIPTION	LEGEND	LEVEL (mAOD)	SAMPLES & TESTS DEPTH	SAMPLES & TESTS TYPE	SPT 'N'
0.40 ▽ 0.40		0.40	TOPSOIL: Soft to firm brown clayey sandy GRAVEL. Frequent roots and rootlets.		-0.40	0.10 0.30	D 01	
		0.60	MADE GROUND: Concrete		-0.60			
			Stiff to very stiff brown sandy gravelly CLAY					
		3.00	*End of Borehole at 3.20 m*		-3.00	2.80 3.00	D 02	

KEY

Sample Types :
U - Undisturbed
D - Disturbed
B - Bulk
W - Water
SPT - SPT Spoon

Water Levels :
▽ Water Strike
▼ Water Level

In Situ Tests :
S - Standard Penetration Test
C - Cone Penetration Test

REMARKS
Water perched on concrete at 0.4m. No visual/olfactory evidence of contamination.

EASTING	NORTHING	GROUND LEVEL (mAOD)
0.00	0.00	
LOGGED BY	SCALE	
SR	1:65	Sheet 1 of 1

WSP ENVIRONMENTAL



Trial Pit 1



Trial Pit 2



Trial Pit 3



Trial Pit 6



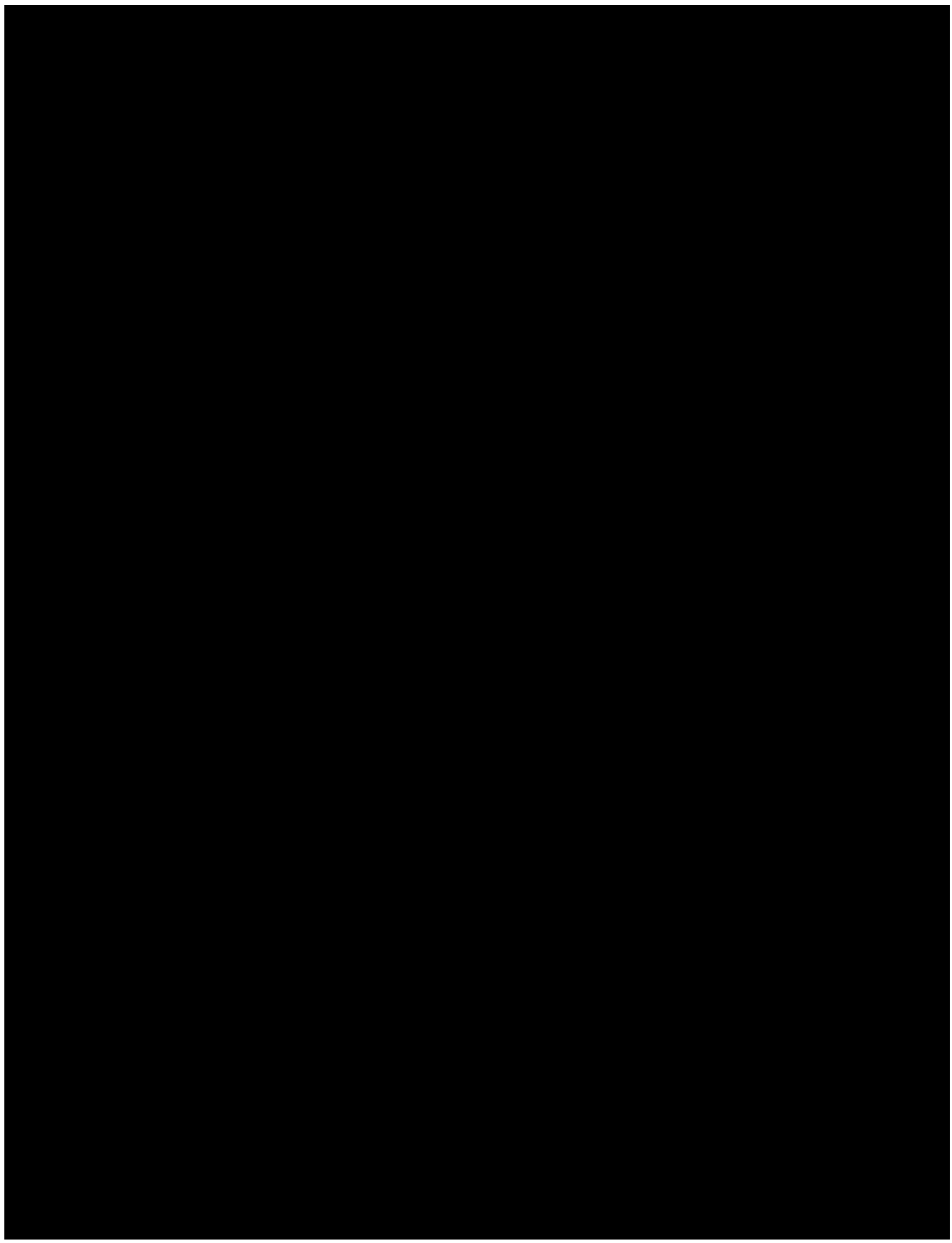
Trial Pit 7

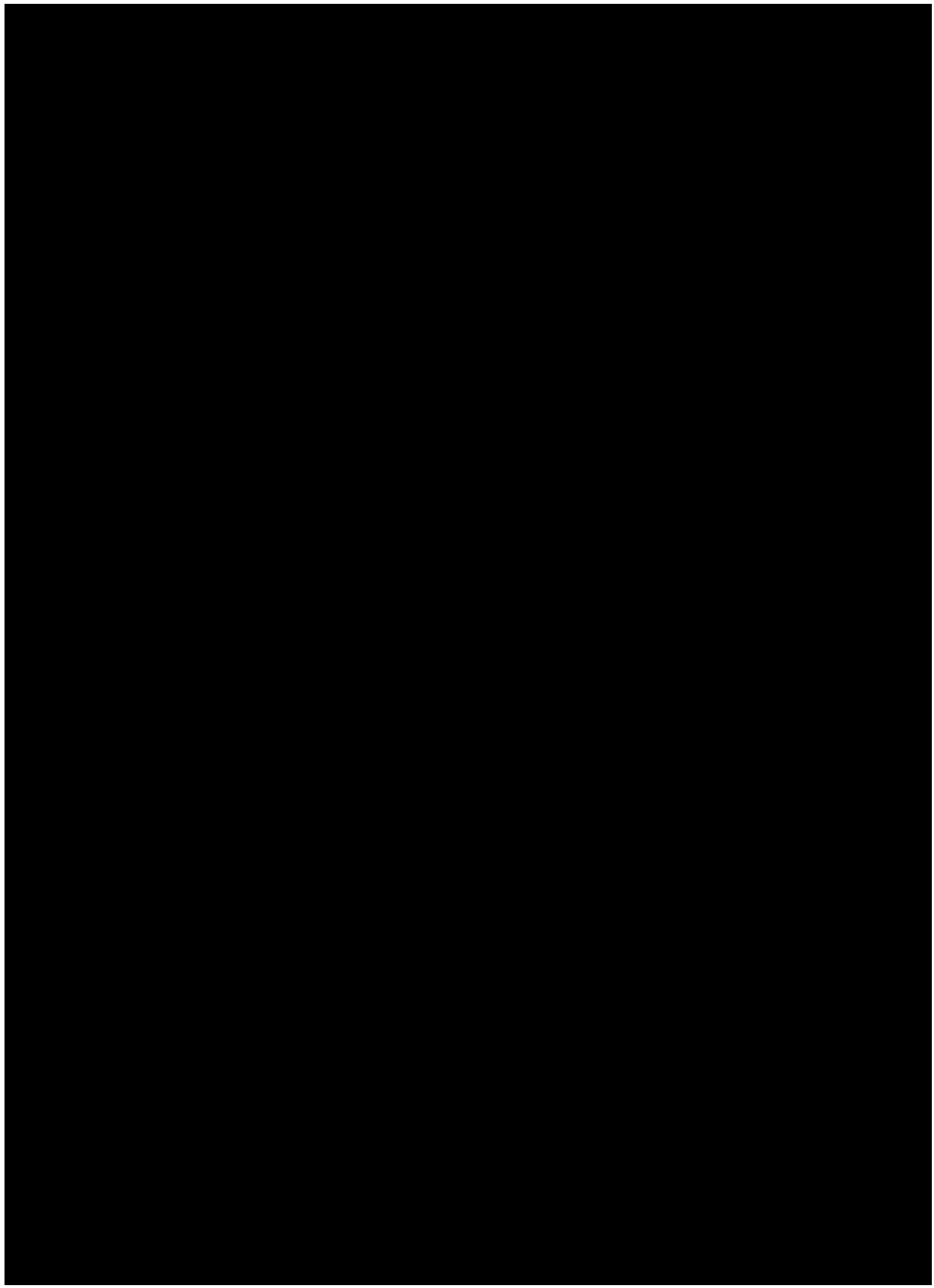


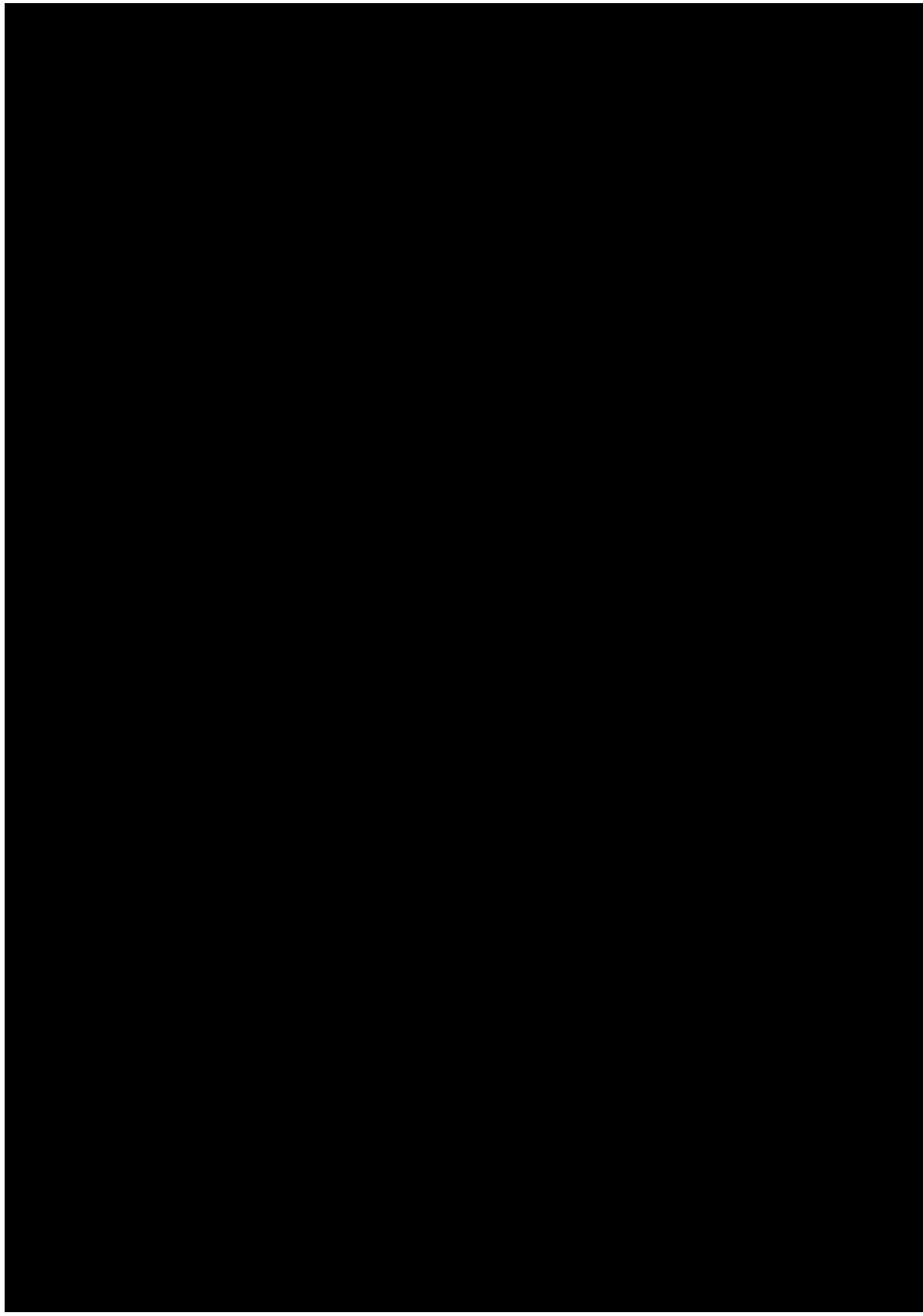
Trial Pit 8

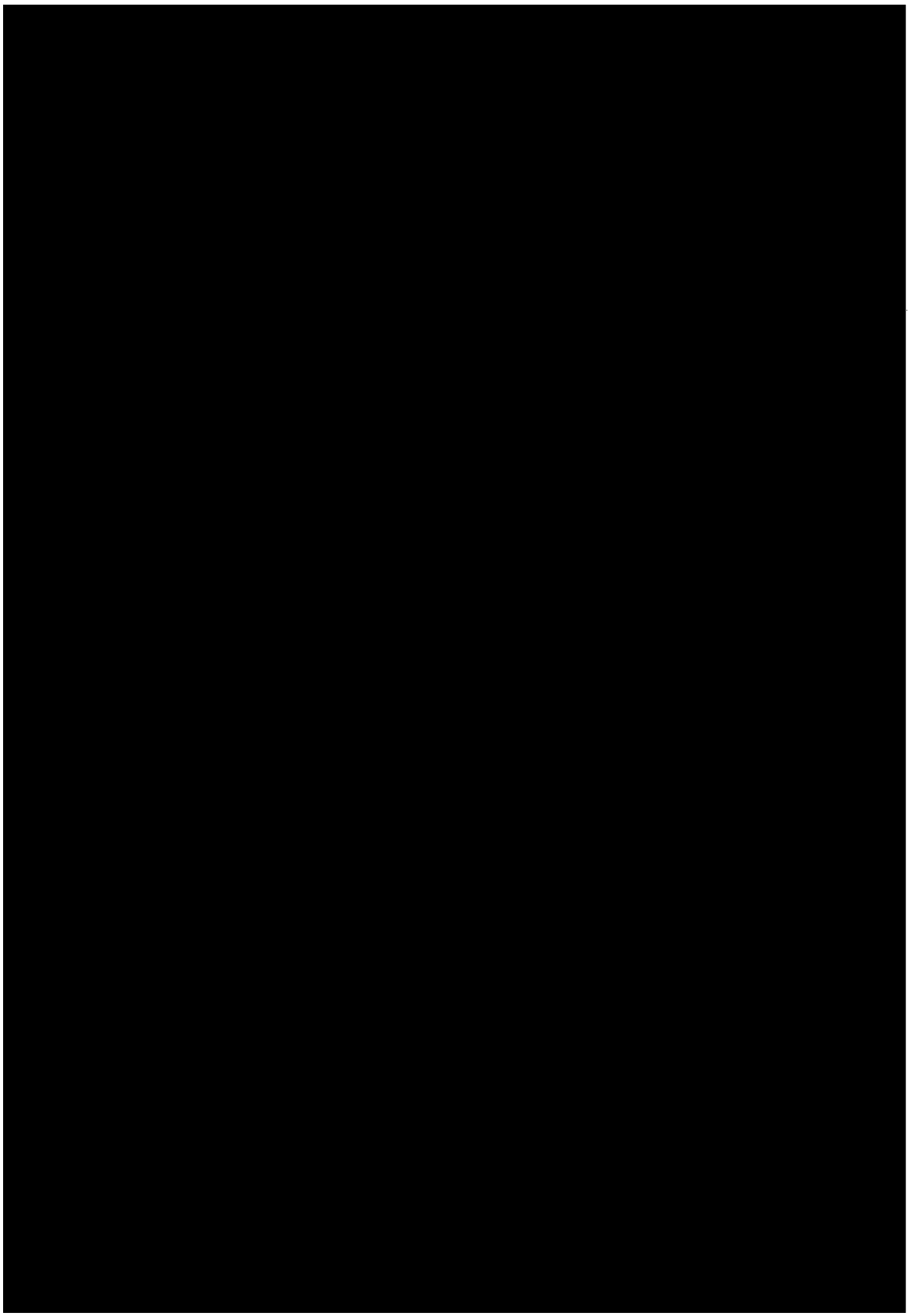
APPENDIX F

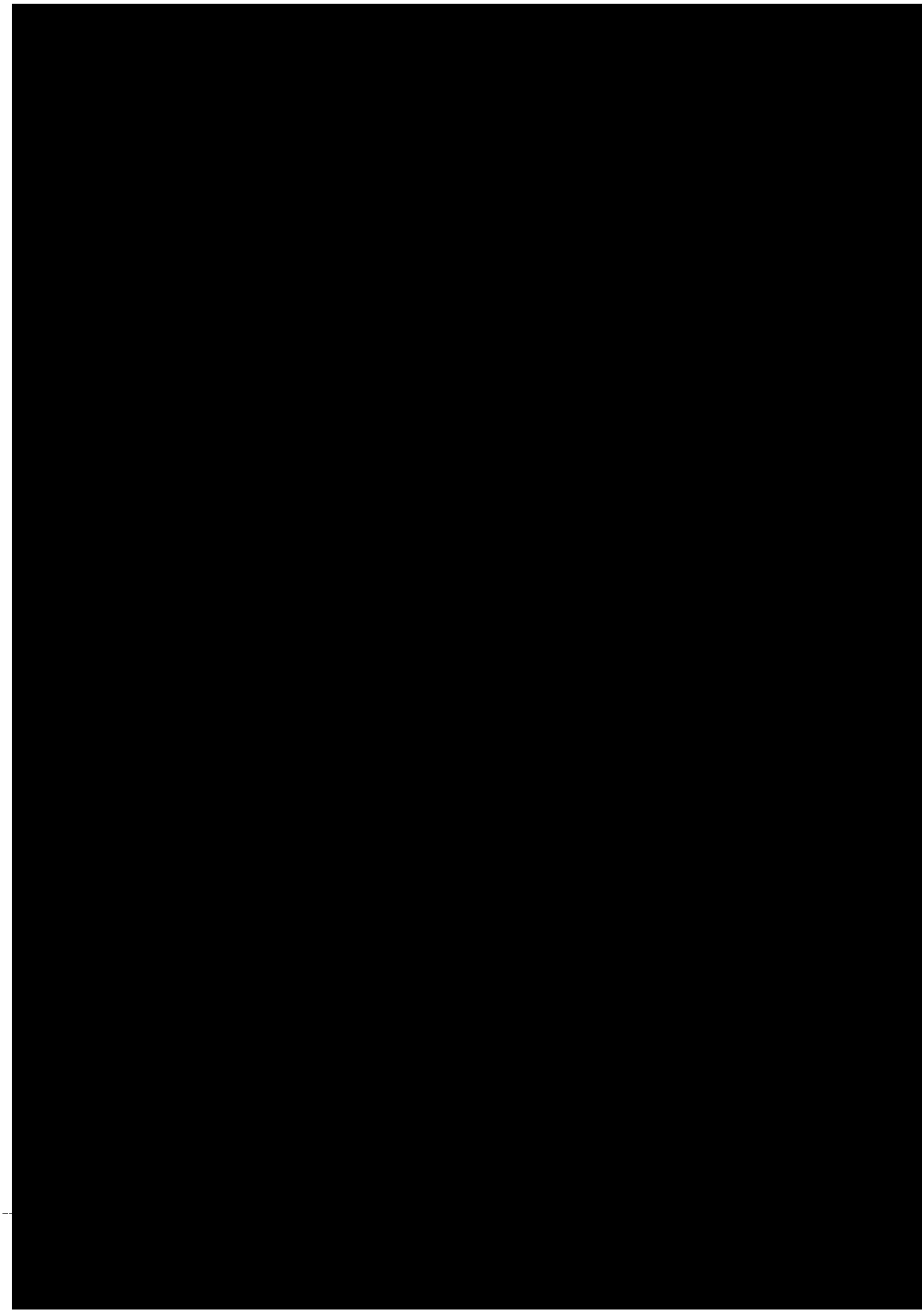
BOREHOLE AND TRIAL PIT LOGS – SURPLUS LAND

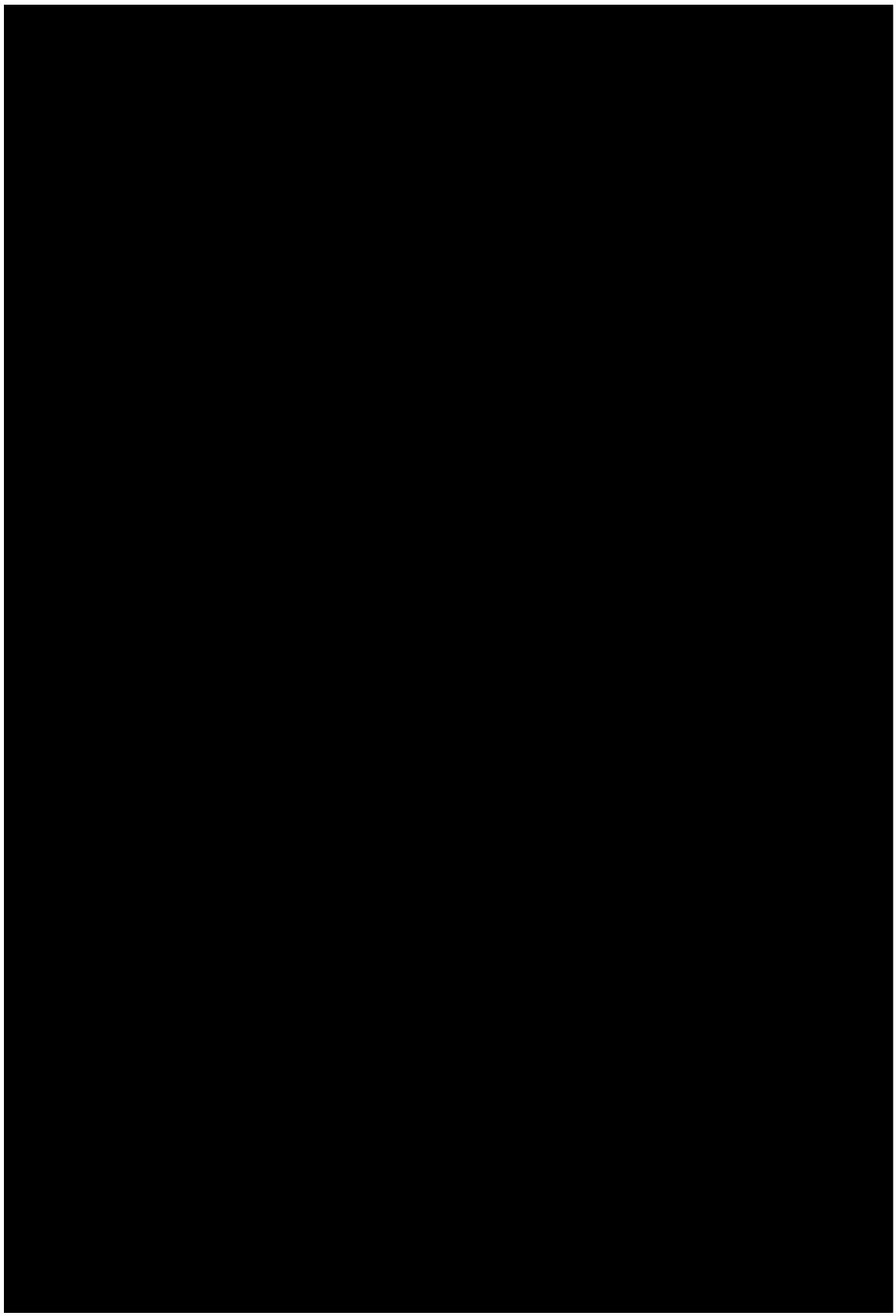


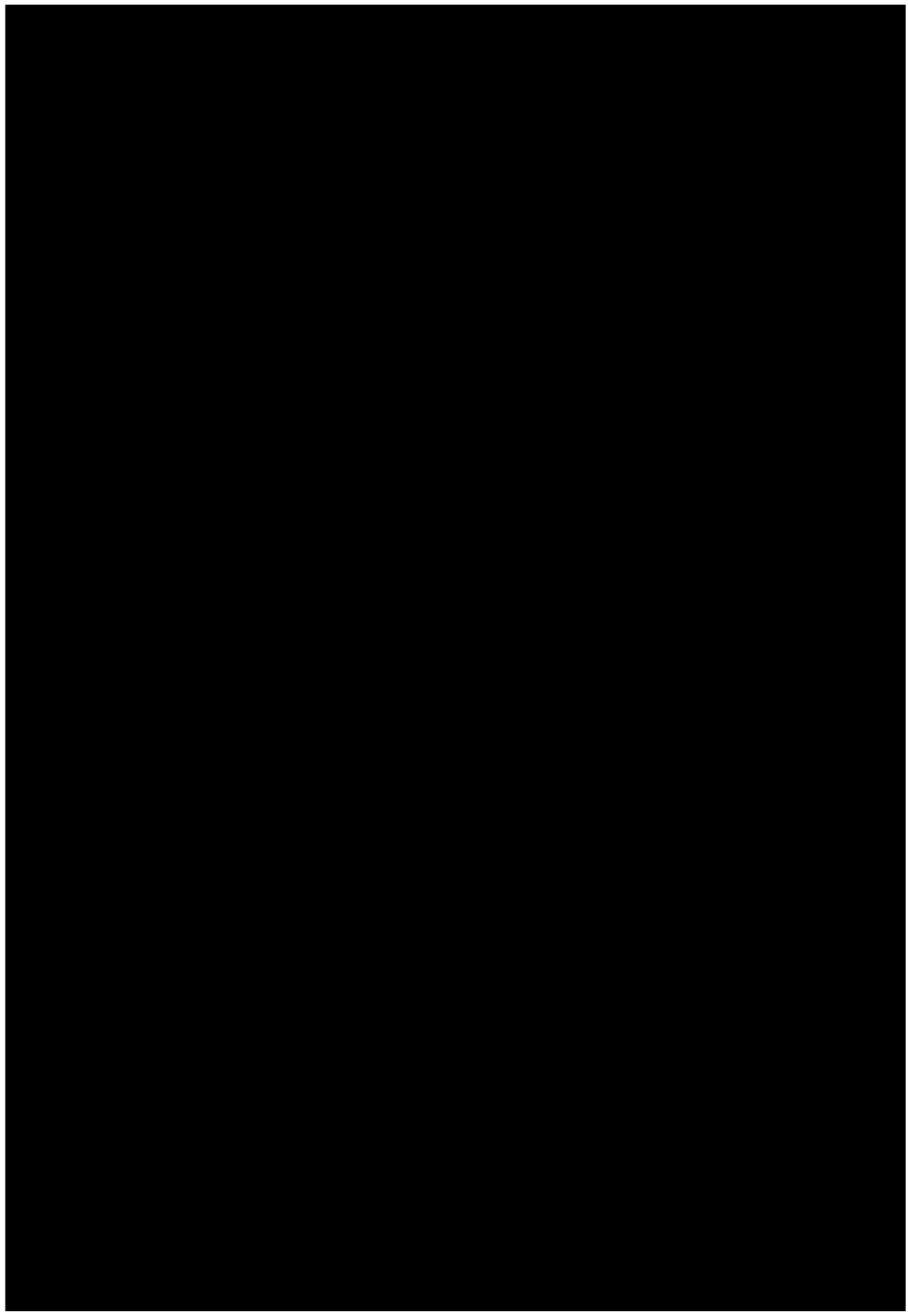


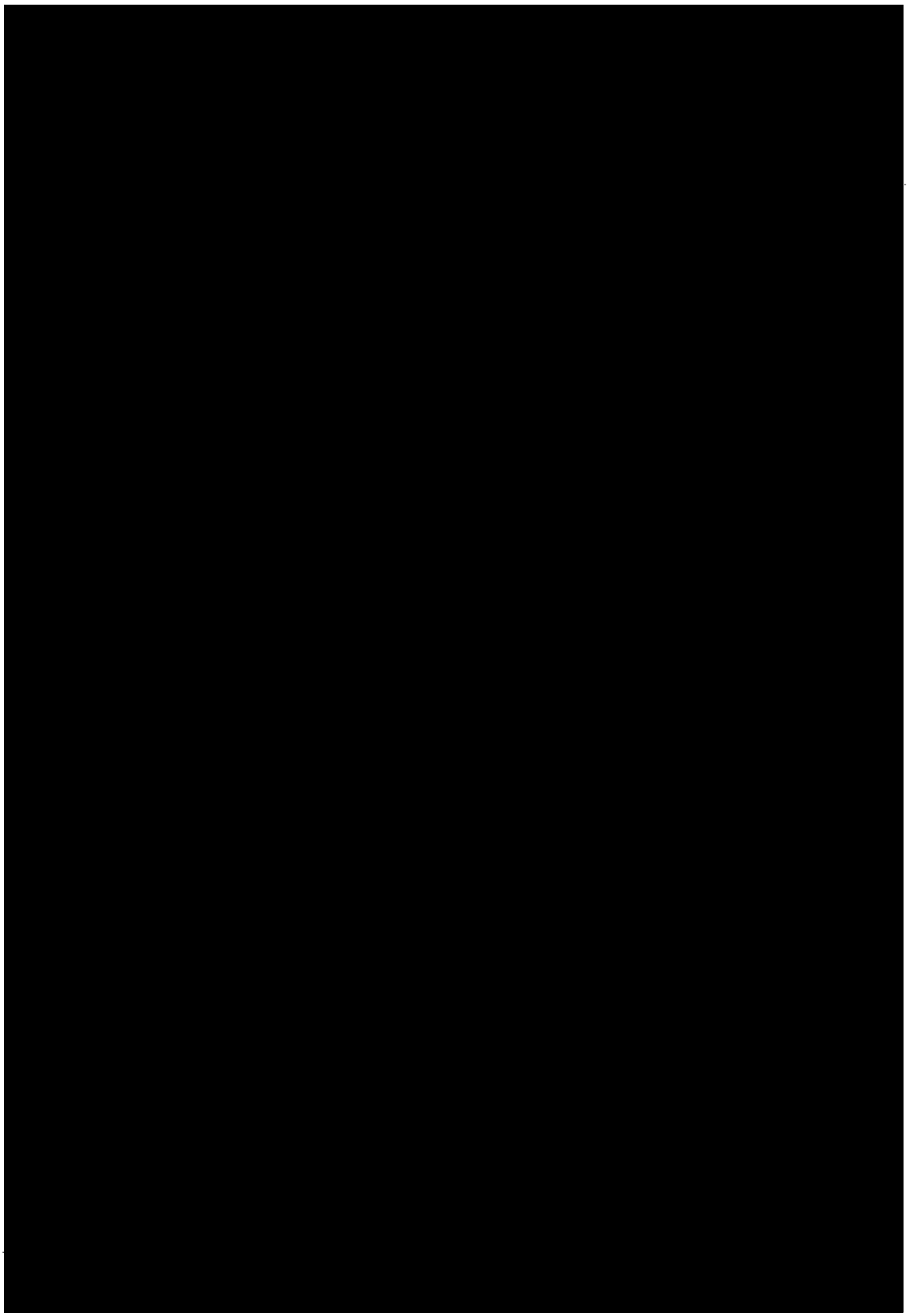




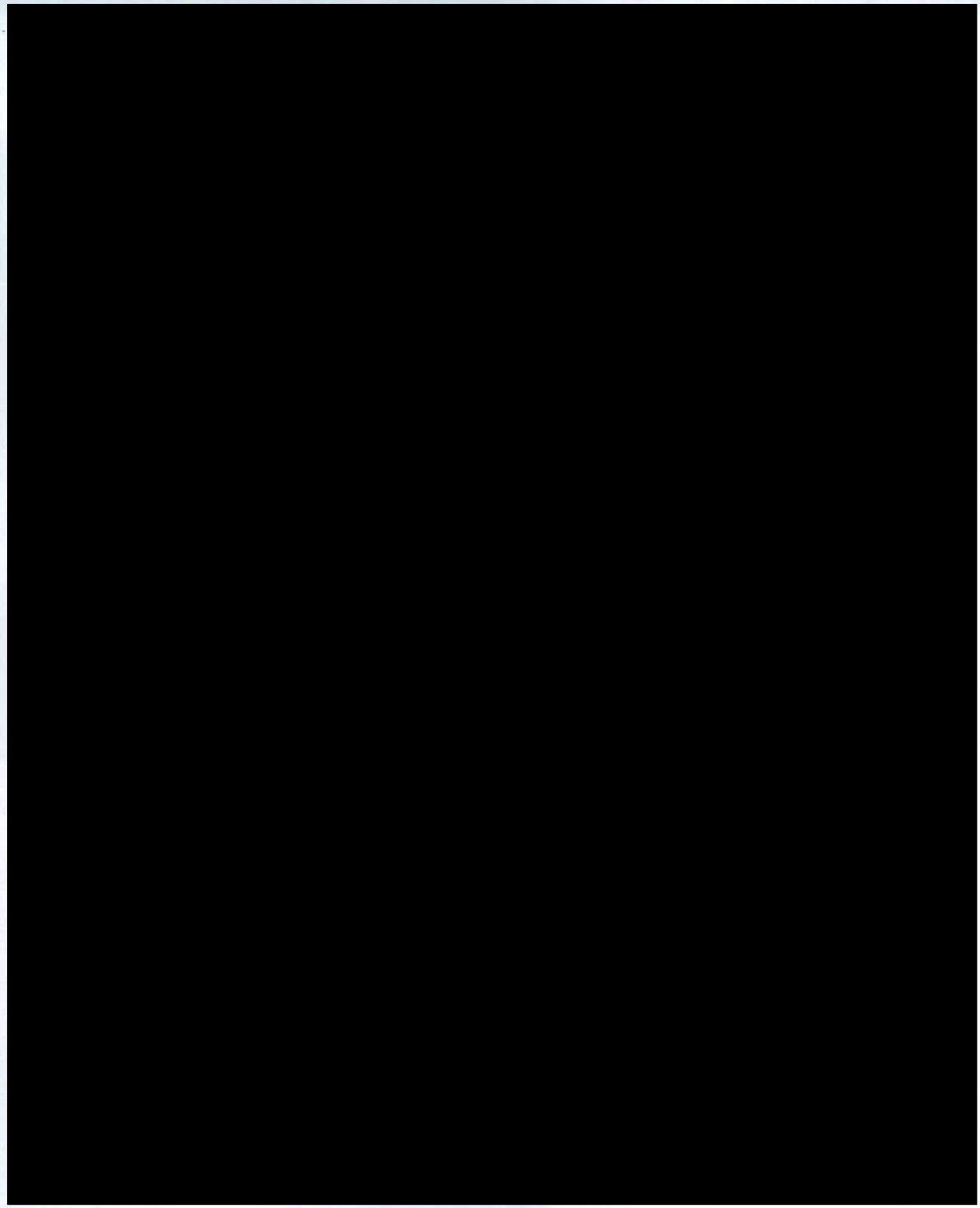


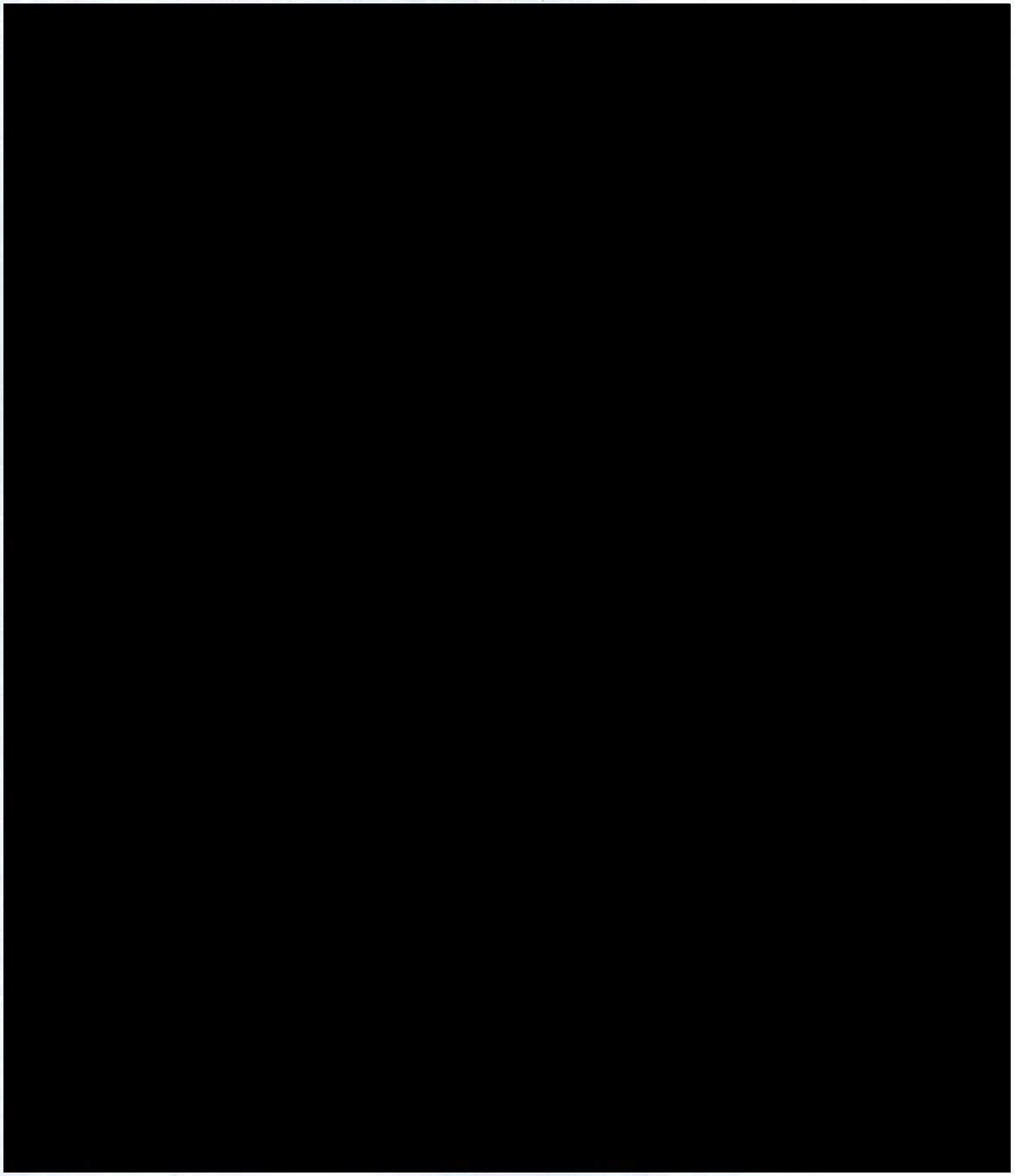


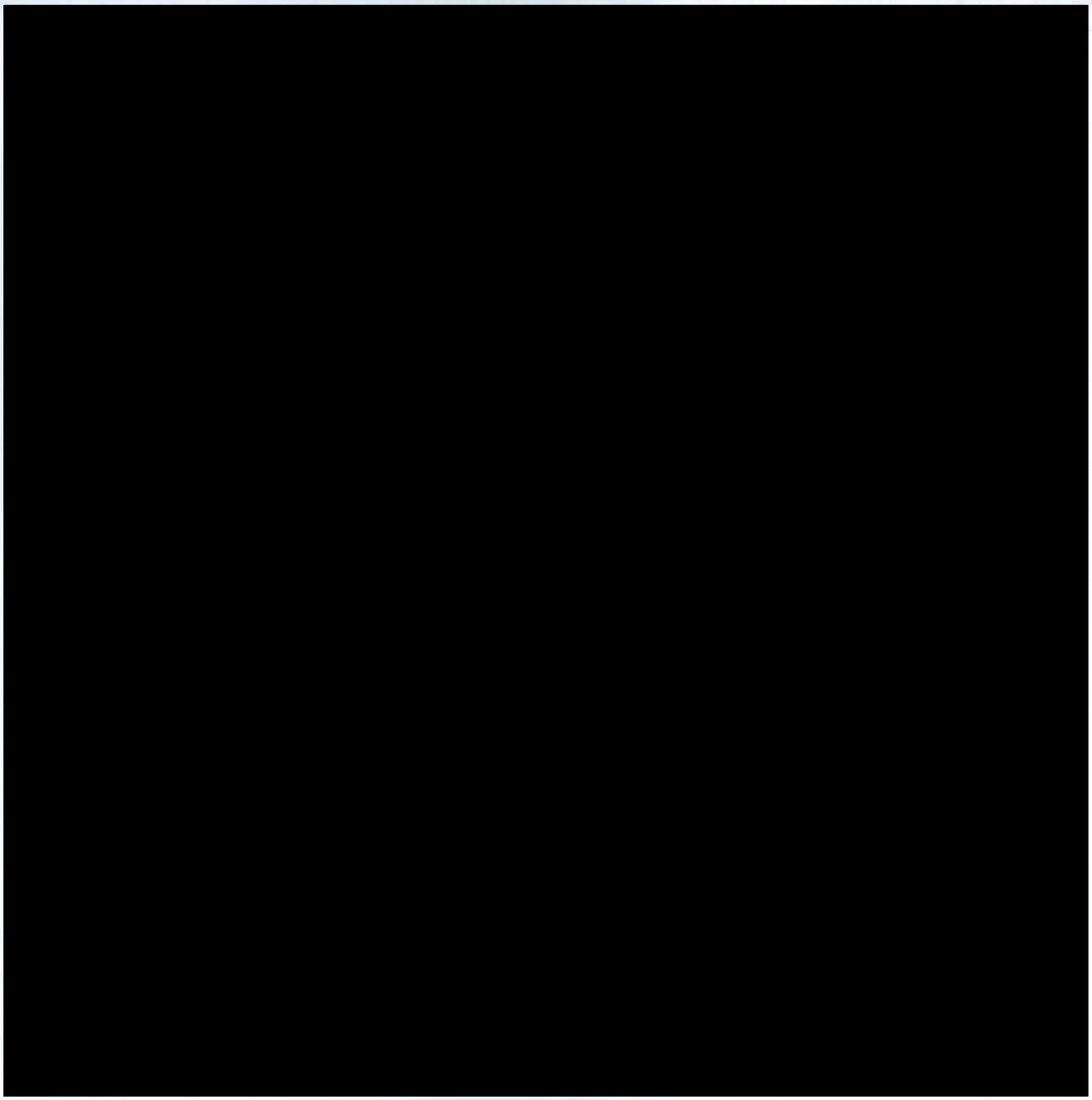




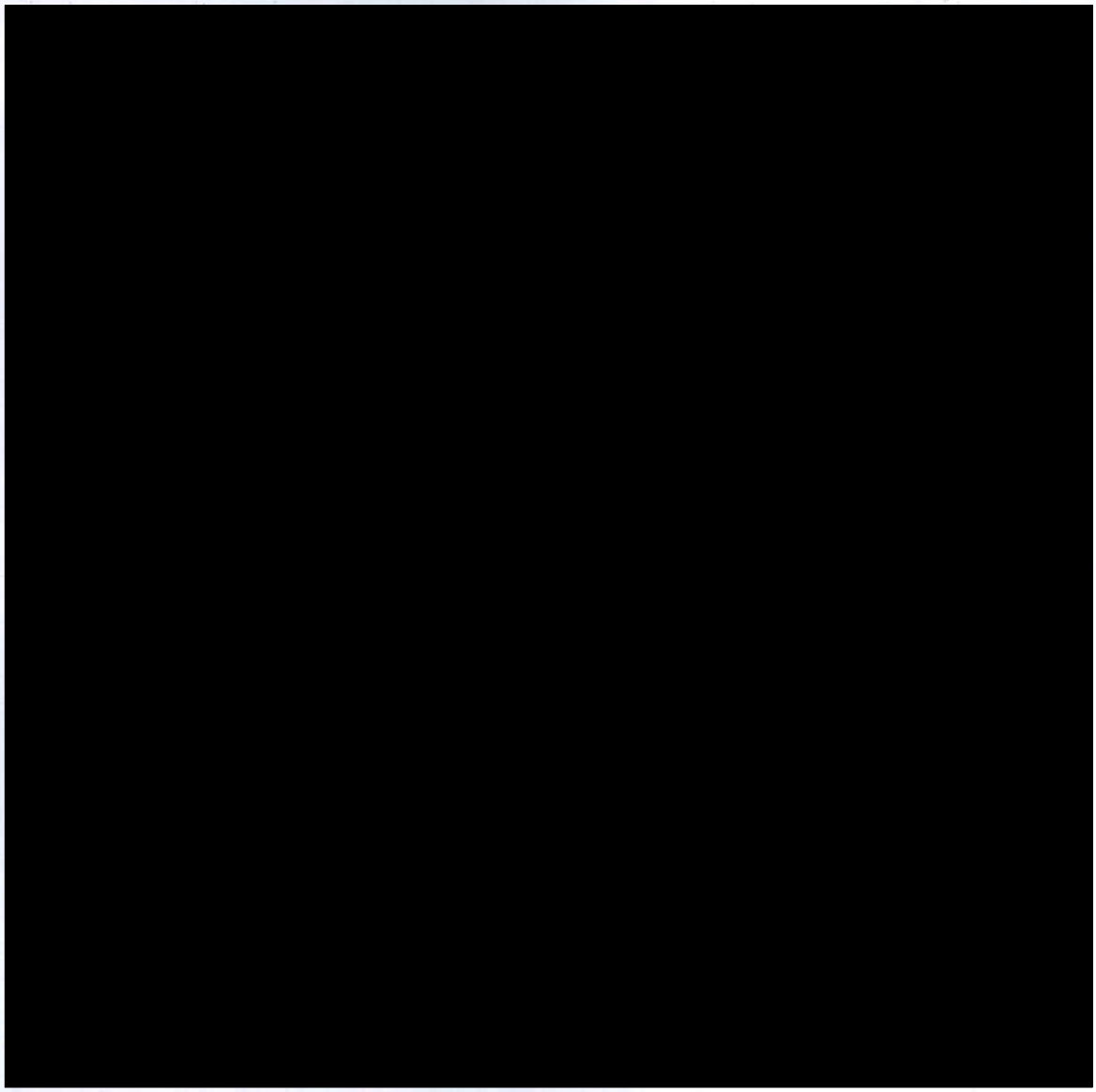












Appendix F2 – Soil Analysis

Soil Analysis

WSPC/80334
Bradford Road
Your Reference:- 13010
Your Order:-

CAS Number:			394606	394607
Sample Ref			GH1	GH2
Detname	Method	Units	0.60m	0.6
Wet Correction Factor	BG SPEC		0.89	0.78
Dry correction Factor	BG SPEC		0.57	0.49
Arsenic (Total Bgspec)	BG spec	mg/kg	80	41
Boron(Soluble Bgspec)	BG spec	mg/kg	0.22	0.27
Cadmium (Total Bgspec)	LPH30	mg/kg	1.6	0.86
Chromium (Total Bgspec)	LPH30	mg/kg	57	37.3
Copper (Total Bgspec)	LPH30	mg/kg	180	91
Lead (Total Bgspec)	LPH30	mg/kg	5800	2200
Mercury (Total Bgspec)	BG SPEC	mg/kg	0.8	0.47
Nickel (Total Bgspec)	LPH30	mg/kg	72	46
Selenium (Total Bgspec)	BG SPEC	mg/kg	2.3	1.4
Zinc (Total Bgspec)	LPH30	mg/kg	610	160
Ammonia as NH4	BG SPEC	mg/kg	<25	<25
Chloride (water Soluble)	335	mg/kg	22	21
Cyanide-Complex	BG SPEC	mg/kg	26	18
Cyanide-Easily Liberated	BG SPEC	mg/kg	1	<1
Cyanide-Total	BG SPEC	mg/kg	27	18
Loss on Ignition	BG SPEC	%	17	14
Sulphate (W/S) as SO4	335	mg/kg	170	230
pH(Total Bgspec)	LPH39	pH Units	7.8	7.6
Nitrite as NO3 (2:1 water extract)	63	g/l	0.012	0.017
TPH by GC (>C10 - C39)	LPH317	mg/kg	6900	3600
TPH by GC (>C10 - C20)	LPH317	mg/kg	680	250
TPH by GC (>C20 - C39)	LPH317	mg/kg	6200	3300
Sulphur (Elemental)	LPH154	mg/kg	150	110
Naphthalene	LPH307	mg/kg	11	6.7
acenaphthylene	LPH307	mg/kg	6.8	2.4
acenaphthene	LPH307	mg/kg	1	<1
fluorene	LPH307	mg/kg	3.1	3.1
phenanthrene	LPH307	mg/kg	20	13
anthracene	LPH307	mg/kg	2.9	3
fluoranthene	LPH307	mg/kg	37	15
pyrene	LPH307	mg/kg	36	12
benzo(a)anthracene	LPH307	mg/kg	11	4.8
chrysene	LPH307	mg/kg	19	17
cyclopenta(cd)pyrene	LPH307	mg/kg	<1	<1
benzo(b)fluranthene	LPH307	mg/kg	22	5.4
benzo(k)fluranthene	LPH307	mg/kg	24	8.2
benzo(e)pyrene	LPH307	mg/kg	23	6.4
benzo(a)pyrene	LPH307	mg/kg	17	4.1
dibenzo(ah)anthracene	LPH307	mg/kg	1.5	<1
benzo(ghi)perylene	LPH307	mg/kg	12	<1
indeno(123cd)pyrene	LPH307	mg/kg	11	<1
anthantherene	LPH307	mg/kg	8.3	<1
PAH (total)	LPH307	mg/kg	270	100
Catechol	322	mg/kg	<0.10	<0.10
cresols	322	mg/kg	<0.10	<0.10
xylenols	322	mg/kg	<0.10	<0.10
trimethyl[henol	322	mg/kg	<0.10	<0.10
Total Phenol	322	mg/kg	<0.50	<0.50
Moisture	BG SPEC	%	24	23
Stones %	BG SPEC	%	32	39

NEW PROFORMA FOR REPORTING ANALYTICAL RESULTS (SOIL)
All analytical results to be reported as mg/kg ONLY
Job No: WSPC/79032
Bradford Road
Site Project Reference: 13010222
Date: 27/06/2003
Laboratory: City Analytical Services Plc

Laboratory Sample Reference	384877	384878	384879	384880	384881	384882	384883	384884	384885	384886	384887	384888	384889	384890	384891	384892	384893	384894	384895
Sample ID	BH1	BH1	BH1	TP1	TP1	TP2	TP3	TP5	TP5	TP6	TP6	TP8	TP8	BH2	BH2	BH2	BH3	BH3	BH3
Other ID	1.5	0.3	4.3	0.1	2	0.1	0.5	0.5	2.8	1	2.5	0.1	2.8	2.5	4	7	3.8	5.8	8.5
Hardstanding at Surface (Y/N)																			
pH	8.4	8.1	8.4	7.6	8.2	7.7	7.9	8.1	8.1	7.3	6.7	9.1	8.3	8.2	8.3	8.3	6.2	7.7	7.6
% Loss on Ignition	3.3	4.3	3.2	4	3.9	11	2.5	7.6	2.38	18	10	2.7	1.8	2.7	2	3	11	2.2	4.5
% Moisture	12	12	11	15	14	13	11	12	15	33	31	22	8.6	11	11	10	37	16	13
% Stones	15	20	16	47	10	41	14	46	31	31	37	48	48	26	41	25	37	15	45
Cresols	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Xyenols & Ethylphenols	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Catechol	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Phenol	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Trimethylphenol	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Total Phenols	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Naphthalene	3.1	2.2	3.6	2.9	3.5	6.3	<1	2.6	<1	9	8.8	1.4	<1	1.4	<1	1.6	1.6	<1	<1
Acenaphthylene	<1	<1	<1	<1	<1	1.3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.2	<1	<1
Acenaphthene	<1	<1	<1	<1	<1	7.3	<1	<1	<1	1.6	<1	<1	<1	<1	<1	<1	<1	<1	<1
Flurorene	<1	<1	<1	<1	<1	7.3	<1	1.2	<1	3.2	1.2	<1	<1	<1	<1	<1	1.2	<1	<1
Phenanthrene	<1	1.2	1.2	2	<1	47	<1	3.9	<1	8.5	5.1	1.5	<1	<1	<1	<1	4.1	<1	<1
Anthracene	<1	<0.10	<0.1	<1	<1	12	<1	1.3	<1	2	4	<1	<1	<1	<1	<1	<1	<1	<1
Fluoranthene	<1	1.4	1.4	3.5	<1	89	<1	5.7	<1	5.8	5.1	1.8	<1	<1	<1	<1	14	<1	<1
Pyrene	<1	1.4	1.4	3.2	<1	89	<1	6.2	<1	7.4	6.4	2.1	<1	<1	<1	<1	14	<1	<1
Benzo(a)anthracene	<1	<0.10	<1	1.3	<1	47	<1	2.6	<1	3	1.8	<1	<1	<1	<1	<1	5.5	<1	<1
Chrysene	<1	<1	<1	2.4	<1	68	<1	3.6	<1	4.6	3.6	1.3	<1	<1	<1	<1	7.6	<1	<1
Benzo(b)fluoranthene	<1	<1	<1	2	<1	44	<1	3.3	<1	3	2.9	<1	<1	<1	<1	<1	6.3	<1	<1
Benzo(k)fluoranthene	<1	<1	<1	2.2	<1	63	<1	3.7	<1	<1	3.2	<1	<1	<1	<1	<1	5.9	<1	<1
Benzo(a)pyrene	<1	<1	<1	<1	<1	36	<1	2.3	<1	2.7	4.1	<1	<1	<1	<1	<1	7.2	<1	<1
Indeno(1,2,3-cd)pyrene	<1	<1	<1	<1	<1	34	<1	2.3	<1	2.1	2.1	<1	<1	<1	<1	<1	4.7	<1	<1
Di-benz(a,h)anthracene	<1	<1	<1	<1	<1	16	<1	<1	<1	<1	1.2	<1	<1	<1	<1	<1	1.7	<1	<1
Benzo(g,h,i)pyrene	<1	<1	<1	<1	<1	30	<1	2.4	<1	2.3	3.6	<1	<1	<1	<1	<1	5.5	<1	<1
Anthanthrene	<1	<1	<1	<1	<1	15	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Benzo(e)pyrene	<1	<1	<1	1.8	<1	36	<1	1.9	<1	2.4	3.2	<1	<1	<1	<1	<1	5.5	<1	<1
Cyclopenta(cd)pyrene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total PAH	<10	<10	<10	24	<10	630	<10	46	<10	58	60	13	<10	<10	<10	<10	89	<10	<10
Easily-liberatable Cyanide	<0.1	<1	<1	1.2	1	<1	<1	<1	<1	4.1	<1	1.3	<1	<1	<1	1.7	4	3	<1
Complex Cyanide	3.9	<1	<1	1.2	2.1	11	<1	1.2	4.88	10	7.3	5.4	<1	3.3	2.6	6.7	25	3	1.9
Total Cyanide	4.8	1.8	1.9	2.5	3.1	12	<1	1.8	4.8	14	8.2	6.7	1.1	4.2	3.3	8.3	29	6.1	2.5
Thiocyanate																			
Elemental Sulphur	<100	<100	<100	<100	<100	210	<100	<100	<100	110	1800	210	<100	<100	<100	<100	1700	<100	<100
Water Soluble Suplahte as SO4	91	200	83	<25	46	110	1300	32	41	370	640	160	62	85	65	70	590	98000	62
Water Soluble Chloride	18	12	9.1	7.1	9.7	6.3	13	4500	4.5	12	6	50	23	25	22	22	8.9	11	13
Exchangeable Arrimonium	50	71	49	80	27	18	38	48	42	54	<25	53	57	43	34	32	<25	390	32
Nitrate																			
Arsenic	6.9	9.3	12	24	11	26	11	39	18	96	160	19	5.2	7.8	7	5.9	55	5.1	4.8
Cadmium	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	1.1	1.6	0.5	<0.50	<0.50	<0.50	<0.50	0.89	<0.50	<0.50
Chromium	25	21	32	11	33	13	34	270	560	46	44	12	17	26	20	19	23	14	11
Lead	9.9	50	6.5	180	35	63	8.4	430	550	310	640	81	<5.0	9.2	14	6.1	370	18	16
Mercury	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	4.8	2.4	3.8	3.8	0.46	<0.10	<0.10	<0.10	<0.10	1.7	<0.10	<0.10
Selenium	<0.10	0.17	0.2	0.38	0.32	1.1	0.14	0.76	<0.10	<0.10	2.3	0.46	0.16	0.13	0.15	<0.10	2.1	<0.10	<0.10
Copper	17	28	23	39	27	73	24	110	48	450	240	85	16	22	18	19	150	16	24
Nickel	33	30	40	23	49	31	45	44	42	50	51	20	24	32	26	26	63	13	28
Zinc	41	59	50	76	64	34	58	130	70	120	130	100	38	47	45	46	350	21	48
Boron	0.45	0.58	0.37	0.12	0.19	0.14	0.47	0.2	0.13	0.58	0.51	0.38	0.13	0.19	0.14	0.14	<0.10	0.54	<0.10
Analytes below to be determined																			
if their presence on site is suspected																			
Cobalt																			
Vanadium																			
Molybdenum																			
Germanium																			
Hex Cr																			
Benzene																	<0.10		
Toluene																	<0.10		
Ethylbenzene																	<0.10		
Xylene's												ND					<0.10		
Asbestos																			
ADDITONAL ANALYTES																			
Coal Tar																			
Sulphide																			
Toluene Extractable Matter																			
TPH by GC (C10 to C20)				100						290		88					1600	<50	
TPH by GC (C20 to C39)				670						120		120					200	<50	
TPH by GC (C10 to C99)				760						410		200					1800	<50	
>>TPH RISK ASSESSMENT<<																			
>C6 to C8																			
>C8 to C10																			
>C10 to C12																			
>C12 to C16																			
>C16 to C21																			
>C21 to C40																			
Total Alipatic																			
>C5 to C7																			
>C7 to C8																			
>C8 to C10																			
>C10 to C12																			
>C12 to C16																			
>C16 to C21																			
>C21 to C40																			
Total Aromatic																			
Total TPH																			
Organic Matter																			
Total Sulphate as SO4																			
Calorific Value (kJ/kg)																			
Total Organic Carbon																			

[redacted]

Appendix F2 – Soil-Leachate Analysis

NEW PROFORMA FOR REPORTING ANALYTICAL RESULTS (leachates)
All analytical results to be reported as stated units
Job No: WSPC/
Bradford Road
Site Project Reference:
Date: 07/08/2003
Laboratory: City Analytical Services Plc

Laboratory Sample Reference		400387	400388	400389	400390	400391	
Sample ID		BH3	TP6	TP5	TP2	TP3	
Other ID		3.8m	2.50m	0.50m	0.10m	0.50m	
Hardstanding at Surface (Y/N)							
	Units						
pH	pH units	4.1	6.6	7.7	7.5	7.6	
Conductivity	µs/cm	430	320	160	77	200	
Cresols	µg/l	<0.50	<0.50	<0.50	<0.50	<0.50	
Xyenols & Ethylphenols	µg/l	<0.50	<0.50	<0.50	<0.50	<0.50	
Catechol	µg/l	<0.50	<0.50	<0.50	<0.50	<0.50	
Phenol	µg/l	<0.50	<0.50	<0.50	<0.50	1.2	
Trimethylphenol	µg/l	<0.50	<0.50	<0.50	<0.50	<0.50	
Total Phenols	µg/l	<2.50	<2.50	<2.50	<2.50	<2.5	
Naphthalene	ng/l	71	<20	290	<20	48	
Acenaphthylene	ng/l						
Acenaphthene	ng/l	60	<20	<20	<20	140	
Flurorene	ng/l	34	<20	<20	<20	63	
Phenanthrene	ng/l	79	<20	28	<20	120	
Anthracene	ng/l	82	<20	<20	<20	41	
Fluoranthene	ng/l	82	<20	<20	<20	160	
Pyrene	ng/l	440	<20	36	<20	260	
Benzo(a)anthracene	ng/l	73	<20	<20	<20	<20	
Chrysene	ng/l	99	<20	<20	<20	<20	
Benzo(b)fluoranthene	ng/l	<20	<20	<20	<20	<20	
Benzo(k)fluoranthene	ng/l	<20	<20	<20	<20	<20	
Benzo(a)pyrene	ng/l	<20	<20	<20	<20	<20	
Indeno(1,2,3-cd)pyrene	ng/l	<20	<20	<20	<20	<20	
Di-benz(a,h)anthracene	ng/l	<20	<20	<20	<20	<20	
Benzo(g,h,i)pyrene	ng/l	<20	<20	<20	<20	<20	
Anthanthrene	ng/l	<20	<20	<20	<20	<20	
Benzo(e)pyrene	ng/l	<20	<20	<20	<20	<20	
Cyclopenta(cd)pyrene	ng/l						
Total PAH	ng/l	1100	<200	420	<200	840	
Easily-liberatable Cyanide	mg/l	<0.10	<0.10	<0.10	<0.10	<0.10	
Complex Cyanide	mg/l	0.1	<0.10	<0.10	<0.10	0.9	
Total Cyanide	mg/l	0.1	<0.10	<0.10	<0.10	0.9	
Sulphate	mg/l						
Total Ammonium	mg/l	>0.64	>0.64	>0.64	>0.64	>0.64	
Arsenic	mg/l	<0.05	<0.05	<0.05	<0.05	<0.05	
Cadmium	mg/l	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	
Chromium	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01	
Lead	mg/l	0.04	<0.02	<0.02	<0.02	<0.02	
Mercury	mg/l	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	
Selenium	mg/l	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	
Copper	mg/l	<0.01	0.04	<0.01	<0.01	<0.01	
Nickel	mg/l	0.13	0.02	<0.01	<0.01	<0.01	
Zinc	mg/l	0.6	0.21	<0.01	<0.01	<0.01	
Iron	mg/l	6.6	0.02	<0.01	0.09	<0.01	
Analytes below to be determined if their presence on site is suspected							
Cobalt	mg/l						
Vanadium	mg/l						
Molybdenum	mg/l						
Germanium	mg/l						
Uranium	mg/l						
Benzene	µg/l						
Toluene	µg/l						
Ethylbenzene	µg/l						
Xylene's	µg/l						
TPH by GC (C10 to C20)	µg/l						
TPH by GC (C20 to C39)	µg/l						
TPH by GC (C10 to C99)	µg/l						
Additional Analyitiea							
BOD	mg/l						
COD filtered	mg/l						
Boron (B)	mg/l						
Total organic Carbon	mg/l	1.3	<0.50	<0.50	<0.50	<0.50	
Toluene Extractable Matter	mg/l						
Thiocyanate	mg/l						
Sulphide	µg/l						
Chloride	mg/l						

Appendix F3 – Water Analysis

NEW PROFORMA FOR REPORTING ANALYTICAL RESULTS (water)
All analytical results to be reported as stated units
Job No: WSPC/81966
Bradford Road
Site Project Reference:
Date: 26/08/2003
Laboratory: City Analytical Services Plc

Laboratory Sample Reference		406879	406880	406881	406882	406883
Sample ID		BH2	BH3	BH1	BH2	Bha
Other ID		5.1m	6.6m	6.7m	5.6m	Dup
Hardstanding at Surface (Y/N)						
	Units					
pH	pH units	7.9	7.3	7.7	8	8
Suspended Solids	mg/l	130000	550	6900	1700	1700
Conductivity	µs/cm	1200	1500	1400	2300	2300
Cresols	µg/l	<0.50	12	<0.50	67000	61000
Xyenols & Ethylphenols	µg/l	<0.50	47	17	62000	55000
Catechol	µg/l	<0.50	<0.50	<0.50	<0.50	<0.50
Phenol	µg/l	<0.50	3	0.66	34000	32000
Trimethylphenol	µg/l	<0.50	16	12	18000	14000
Total Phenols	µg/l	<2.5	79	30	180000	160000
Naphthalene	ng/l	<20	150	<20	32000	2300
Acenaphthylene	ng/l					
Acenaphthene	ng/l	36	450	<20	5300	3500
Flurorene	ng/l	<20	630	<20	1200	700
Phenanthrene	ng/l	<20	520	100	570	310
Anthracene	ng/l	130	140	360	<20	180
Fluoranthene	ng/l	<20	80	<20	<20	<20
Pyrene	ng/l	<20	26	46	<20	<20
Benzo(a)anthracene	ng/l	<20	<20	<20	<20	<20
Chrysene	ng/l	<20	<20	67	<20	<20
Benzo(b)fluoranthene	ng/l	<20	<20	88	<20	<20
Benzo(k)fluoranthene	ng/l	<20	<20	36	<20	<20
Benzo(a)pyrene	ng/l	<20	<20	39	<20	<20
Indeno(1,2,3-cd)pyrene	ng/l	<20	<20	110	<20	<20
Di-benz(a,h)anthracene	ng/l	<20	<20	85	<20	<20
Benzo(g,h,i)pyrene	ng/l	<20	<20	190	<20	<20
Anthanthrene	ng/l	<20	<20	59	<20	<20
Benzo(e)pyrene	ng/l	<20	<20	<20	<20	<20
Cyclopenta(cd)pyrene	ng/l					
Total PAH	ng/l	210	2000	1200	39000	7000
Easily-liberatable Cyanide	mg/l	0.1	0.2	<0.10	0.1	<0.1
Complex Cyanide	mg/l	0.1	0.3	0.8	0.2	0.3
Total Cyanide	mg/l	0.2	0.5	0.8	0.3	0.3
Thiocyanide	mg/l	0.06	0.15	0.68	0.41	0.29
Sulphate	mg/l	200	480	140	240	230
Sulphide	µg/l	<50	<50	<50	<50	<50
Chloride	mg/l					
Total Ammonium	mg/l	<0.65	7.5	130	260	240
Arsenic	mg/l	<0.05	0.06	<0.05	0.5	<0.05
Cadmium	mg/l	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Chromium	mg/l	<0.01	0.03	0.02	0.02	<0.01
Lead	mg/l	<0.02	0.3	<0.02	0.16	<0.02
Mercury	mg/l	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Selenium	mg/l	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060
Copper	mg/l	<0.01	0.06	<0.01	0.04	<0.01
Nickel	mg/l	<0.01	0.06	0.02	0.05	0.02
Zinc	mg/l	0.03	0.4	0.1	0.57	0.25
Iron	mg/l	1.2	68	4.6	18	4.4
Analytes below to be determined						
if their presence on site is suspected						
Cobalt	mg/l					
Vanadium	mg/l					
Molybdenum	mg/l					
Germanium	mg/l					
Hex Cr	mg/l					
Benzene	µg/l	<10	13	12	940	1000
Toluene	µg/l	<10	<10	<10	460	510
Ethylbenzene	µg/l	<10	<10	<10	41	47
Xylene's	µg/l	<10	<10	<10	660	410
TPH by GC (C10 to C20)	µg/l	<100	140	<100	13000	8200
TPH by GC (C20 to C39)	µg/l	<100	270	<100	260	280
TPH by GC (C10 to C99)	µg/l	<100	410	<100	14000	8400
>>TPH RISK ASSESSMENT<<						
>C6 to C8						
>C8 to C10						
>C10 to C12						
>C12 to C16						
>C16 to C21						
>C21 to C40						
Total Alipatic						
>C5 to C7						
>C7 to C8						
>C8 to C10						
>C10 to C12						
>C12 to C16						
>C16 to C21						
>C21 to C40						
Total Aromatic						
Total TPH						
Additional Analyitiea						
BOD	mg/l					
COD filtered	mg/l					
Boron (B)	mg/l					
Total organic Carbon	mg/l	41	8.2	13	130	140
Toluene Extractable Matter	mg/l					
Thiocyanate	mg/l					
Sulphide	µg/l					
Chloride	mg/l					

NEW PROFORMA FOR REPORTING ANALYTICAL RESULTS (water)
All analytical results to be reported as stated units
Job No: WSPC/81030
Bradford Road
Site Project Reference:
Date: 06/08/2003
Laboratory: City Analytical Services Plc

Laboratory Sample Reference		399871	399872
Sample ID		BH3	BH2
Other ID		6.50m	5.40m
Hardstanding at Surface (Y/N)			
	Units		
pH	pH units	7.2	8.1
Suspended Solids	mg/l	980	47000
Conductivity	µs/cm	1500	2300
Cresols	µg/l	<0.50	340000
Xyenols & Ethylphenols	µg/l	<0.50	210000
Catechol	µg/l	<0.50	<0.50
Phenol	µg/l	<0.50	86000
Trimethylphenol	µg/l	<0.50	63000
Total Phenols	µg/l	<2.50	700000
Naphthalene	ng/l	280	790000
Acenaphthylene	ng/l		
Acenaphthene	ng/l	630	8300
Flurorene	ng/l	140	4600
Phenanthrene	ng/l	29	5000
Anthracene	ng/l	62	2200
Fluoranthene	ng/l	79	120
Pyrene	ng/l	50	75
Benzo(a)anthracene	ng/l	<20	23
Chrysene	ng/l	<20	82
Benzo(b)fluoranthene	ng/l	<20	<20
Benzo(k)fluoranthene	ng/l	<20	52
Benzo(a)pyrene	ng/l	<20	<20
Indeno(1,2,3-cd)pyrene	ng/l	<20	<20
Di-benz(a,h)anthracene	ng/l	<20	<20
Benzo(g,h,i)pyrene	ng/l	<20	<20
Anthanthrene	ng/l	<20	22
Benzo(e)pyrene	ng/l	<20	23
Cyclopenta(cd)pyrene	ng/l		
Total PAH	ng/l	1300	810000
Easily-liberatable Cyanide	mg/l	<0.10	<0.10
Complex Cyanide	mg/l	0.1	<0.10
Total Cyanide	mg/l	0.1	<0.10
Thiocyanide	mg/l	0.09	23
Sulphate	mg/l	460	220
Sulphide	µg/l	<50	51
Chloride	mg/l		
Total Ammonium	mg/l	5	320
Arsenic	mg/l	<0.05	<0.05
Cadmium	mg/l	<0.0050	<0.0050
Chromium	mg/l	<0.01	<0.01
Lead	mg/l	0.03	<0.02
Mercury	mg/l	<0.0040	<0.0040
Selenium	mg/l	<0.0060	<0.0060
Copper	mg/l	<0.01	<0.01
Nickel	mg/l	0.02	0.01
Zinc	mg/l	0.05	0.02
Iron	mg/l	13	1.2
Analytes below to be determined			
if their presence on site is suspected			
Cobalt	mg/l		
Vanadium	mg/l		
Molybdenum	mg/l		
Germanium	mg/l		
Hex Cr	mg/l		
Benzene	µg/l	<10	2900
Toluene	µg/l	<10	1200
Ethylbenzene	µg/l	<10	95
Xylene's	µg/l	<10	830
TPH by GC (C10 to C20)	µg/l	<100	5600
TPH by GC (C20 to C39)	µg/l	<100	240
TPH by GC (C10 to C99)	µg/l	<100	5900
>>TPH RISK ASSESSMENT<<			
>C6 to C8			
>C8 to C10			
>C10 to C12			
>C12 to C16			
>C16 to C21			
>C21 to C40			
Total Alipatic			
>C5 to C7			
>C7 to C8			
>C8 to C10			
>C10 to C12			
>C12 to C16			
>C16 to C21			
>C21 to C40			
Total Aromatic			
Total TPH			
Additional Analyitiea			
BOD	mg/l		
COD filtered	mg/l		
Boron (B)	mg/l		
Total organic Carbon	mg/l	11	820
Toluene Extractable Matter	mg/l		
Thiocyanate	mg/l		
Sulphide	µg/l		
Chloride	mg/l		

NEW PROFORMA FOR REPORTING ANALYTICAL RESULTS (water)
All analytical results to be reported as stated units
Job No: WSPC/81080
Bradford Road
Site Project Reference:
Date: 07/08/2003
Laboratory: City Analytical Services Plc

Laboratory Sample Reference		401011	401012
Sample ID		BH1	BH2
Other ID		6.50m	5.0m
	Units		
pH	pH units	7.5	8
Suspended Solids	mg/l	7600	440000
Conductivity	µs/cm	1400	700
Cresols	µg/l	<0.50	<0.50
Xyenols & Ethylphenols	µg/l	110	<0.50
Catechol	µg/l	<0.50	<0.50
Phenol	µg/l	<0.50	<0.50
Trimethylphenol	µg/l	<0.50	<0.50
Total Phenols	µg/l	110	<2.50
Naphthalene	ng/l	680	62
Acenaphthylene	ng/l		
Acenaphthene	ng/l	290	<20
Flurorene	ng/l	21	<20
Phenanthrene	ng/l	<20	<20
Anthracene	ng/l	69	<20
Fluoranthene	ng/l	99	71
Pyrene	ng/l	71	89
Benzo(a)anthracene	ng/l	<20	64
Chrysene	ng/l	<20	61
Benzo(b)fluoranthene	ng/l	<20	24
Benzo(k)fluoranthene	ng/l	<20	<20
Benzo(a)pyrene	ng/l	<20	26
Indeno(1,2,3-cd)pyrene	ng/l	<20	<20
Di-benz(a,h)anthracene	ng/l	<20	<20
Benzo(g,h,i)pyrene	ng/l	<20	<20
Anthanthrene	ng/l	<20	<20
Benzo(e)pyrene	ng/l	<20	56
Cyclopenta(cd)pyrene	ng/l		
Total PAH	ng/l	1300	520
Easily-liberatable Cyanide	mg/l	<0.10	<0.10
Complex Cyanide	mg/l	0.1	<0.10
Total Cyanide	mg/l	0.1	<0.10
Thiocyanide	mg/l	1.1	0.2
Sulphate	mg/l	130	88
Sulphide	µg/l	<50	<50
Chloride	mg/l		
Total Ammonium	mg/l	130	<0.65
Arsenic	mg/l	<0.05	<0.05
Cadmium	mg/l	<0.0050	<0.0050
Chromium	mg/l	<0.01	<0.01
Lead	mg/l	<0.02	<0.02
Mercury	mg/l	<0.0040	<0.0040
Selenium	mg/l	<0.0060	<0.0060
Copper	mg/l	<0.01	<0.01
Nickel	mg/l	<0.01	0.02
Zinc	mg/l	<0.01	<0.01
Iron	mg/l	0.07	0.02
Analytes below to be determined			
if their presence on site is suspected			
Cobalt	mg/l		
Vanadium	mg/l		
Molybdenum	mg/l		
Germanium	mg/l		
Hex Cr	mg/l		
Benzene	µg/l	<10	<10
Toluene	µg/l	<10	<10
Ethylbenzene	µg/l	<10	<10
Xylene's	µg/l	<10	<10
TPH by GC (C10 to C20)	µg/l	<100	<100
TPH by GC (C20 to C39)	µg/l	<100	<100
TPH by GC (C10 to C99)	µg/l	<100	<100
>>TPH RISK ASSESSMENT<<			
>C6 to C8			
>C8 to C10			
>C10 to C12			
>C12 to C16			
>C16 to C21			
>C21 to C40			
Total Alipatic			
>C5 to C7			
>C7 to C8			
>C8 to C10			
>C10 to C12			
>C12 to C16			
>C16 to C21			
>C21 to C40			
Total Aromatic			
Total TPH			
Additional Analyitiea			
BOD	mg/l		
COD filtered	mg/l		
Boron (B)	mg/l		
Total organic Carbon	mg/l	17	6
Toluene Extractable Matter	mg/l		
Thiocyanate	mg/l		
Sulphide	µg/l		
Chloride	mg/l		

Appendix G – WYG 2012 Site Investigation

Appendix G1 – Dynamic Sampling and Rotary Boreholes

WYG ENVIRONMENT
Ground Engineering Services
Arndale Court, Headingley, Leeds. LS6 2UJ.
Tel. 0113 278 7111 Fax. 0113 275 0623

Exploratory Hole Number
RBH101
Final

Project : **Bradford Road, Manchester**

Project Number : **A074754-28**
Client : **National Grid Property Holdings Ltd**
Method : **Dynamic Sampling / Rotary Cored / Open Hole**
Co-ordinates : **386680.04E - 399270.28N** **Level** : **54.86m AOD**

Hole Information

From	To	Method	Diameter
0.00m	1.50m	Inspection Pit	-
1.50m	12.00m	Dynamic Sampler	107mm
12.00m	13.50m	Rotary Cored	76mm
13.50m	18.50m	Rotary Open Hole	120mm
18.50m	23.70m	Rotary Cored	76mm
23.70m	30.00m	Rotary Open Hole	120mm

Scale 1:50 **Sheet 1 of 3**
Logged By : **RLP**
Checked By : **BH**
Start Date : **09/01/2013**
Finish Date : **11/01/2013**

Strata Description	Legend	Depth (m) (AOD)	Samples & In Situ Testing: Depth (m)	Type	Results/Remarks	Casing Diameter	Water Strikes	Backfill / Installation
MADE GROUND: Moss and grass over brown and dark brown slightly sandy clayey GRAVEL with medium cobble content. Sand is fine to coarse. Gravel is angular to subrounded fine to coarse brick, concrete and clinker. Cobbles are angular to subangular brick and concrete.		0.50	0.40 0.40	ES1 D2	PID=0.00ppm			
		(54.36)						
Firm locally laminated greyish brown locally with black veining slightly gravelly slightly sandy CLAY. Sand is fine to coarse. Gravel is angular to rounded fine to medium mudstone, sandstone and occasional coal.		1.40	1.20	ES3	PID=0.00ppm			
		(53.46)						
Stiff brown locally mottled light brown slightly gravelly slightly sandy CLAY. Sand is fine to coarse. Gravel is angular to rounded fine to medium mudstone, sandstone and occasional coal.			3.50	D4	PID=0.00ppm			
From 3.80m to 4.10m bgl becoming very stiff.								
From 4.10m to 11.80m bgl becoming hard.			4.50-5.50	B5	PID=0.00ppm			
						8.00 107mm		

Remarks / Observations: Continued next sheet

1. Inspection pit hand excavated to 1.50m bgl prior to drilling.
2. Groundwater not observed during drilling.
3. Upon completion 50mm diameter gas/groundwater monitoring standpipe installed to 30.00m bgl.
4. Minirae 2000 PID readings taken on samples, results in parts per

Dynamic Sampling Runs

From	To	Diameter	Recovery
1.50	2.50	117mm	100%
2.50	3.50	117mm	100%
3.50	4.50	107mm	100%
4.50	5.50	107mm	100%
5.50	11.80	97mm	100%
11.80	12.00	97mm	20%

Groundwater

Depth Struck	Rising To	Time (mins)	Remarks

SPT Hammer Ref :
SPT Energy Ration (Er) :

WYG ENVIRONMENT
Ground Engineering Services
Arndale Court, Headingley, Leeds. LS6 2UJ.
Tel. 0113 278 7111 Fax. 0113 275 0623

Exploratory Hole Number
RBH101
Final

Project : **Bradford Road, Manchester**
Project Number : **A074754-28**
Client : **National Grid Property Holdings Ltd**
Method : **Dynamic Sampling/Rotary Cored/Open Hole**
Co-ordinates : **386680.04E - 399270.28N** **Level** : **54.86m AOD**

Hole Information

From	To	Method	Diameter
0.00m	1.50m	Inspection Pit	-
1.50m	12.00m	Dynamic Sampler	107mm
12.00m	13.50m	Rotary Cored	76mm
13.50m	18.50m	Rotary Open Hole	120mm
18.50m	23.70m	Rotary Cored	76mm
23.70m	30.00m	Rotary Open Hole	120mm

Scale 1:50 **Sheet 2 of 3**
Logged By : **RLP**
Checked By : **BH**
Start Date : **09/01/2013**
Finish Date : **11/01/2013**

Strata Description	Legend	Depth (m) (AOD)	Samples & In Situ Testing: Depth (m)	Type	Results/Remarks	Casing Diameter	Water Strikes	Backfill / Installation
		11.80						
Boulder of red SANDSTONE.		(43.06)						
		12.20						
Very stiff grey brown slightly sandy gravelly CLAY with low cobble and boulder content. Sand is fine to coarse. Gravel is angular to subrounded fine to coarse mudstone and coal. Cobbles and boulders are angular sandstone.		(42.66)	12.80	D6	PID=0.00ppm			
Below 13.50m bgl becoming very gravelly.								
		18.80						
Very stiff grey slightly gravelly clayey SILT. Gravel is angular fine to coarse mudstone.		(36.06)						
		19.20	19.20		PID=0.00ppm			
Extremely weak thinly to thickly laminated grey MUDSTONE grading to very stiff slightly gravelly clay. Discontinuities are subhorizontal, closely spaced, planar to undulating, smooth and locally clay infilled. From 19.32m to 19.45m bgl non intact. Recovered as clayey gravel.		(35.66)	19.20-20.70 19.30	B7 D8	PID=0.00ppm 93 56 16	8 NI 9	19.32 19.45	

Remarks / Observations: Continued next sheet

million (ppm).

Dynamic Sampling Runs

From	To	Diameter	Recovery
1.50	2.50	117mm	100%
2.50	3.50	117mm	100%
3.50	4.50	107mm	100%
4.50	5.50	107mm	100%
5.50	11.80	97mm	100%
11.80	12.00	97mm	20%

Groundwater

Depth Struck	Rising To	Time (mins)	Remarks

SPT Hammer Ref :
SPT Energy Ration (Er) :

WYG ENVIRONMENT
Ground Engineering Services
Arndale Court, Headingley, Leeds. LS6 2UJ.
Tel. 0113 278 7111 Fax. 0113 275 0623

Exploratory Hole Number
RBH101
Final

Project : **Bradford Road, Manchester**

Project Number : **A074754-28**
Client : **National Grid Property Holdings Ltd**
Method : **Dynamic Sampling / Rotary Cored / Open Hole**
Co-ordinates : **386680.04E - 399270.28N** **Level** : **54.86m AOD**

Hole Information

From	To	Method	Diameter
0.00m	1.50m	Inspection Pit	-
1.50m	12.00m	Dynamic Sampler	107mm
12.00m	13.50m	Rotary Cored	76mm
13.50m	18.50m	Rotary Open Hole	120mm
18.50m	23.70m	Rotary Cored	76mm
23.70m	30.00m	Rotary Open Hole	120mm

Scale 1:50 **Sheet 3 of 3**
Logged By : **RLP**
Checked By : **BH**
Start Date : **09/01/2013**
Finish Date : **11/01/2013**

Strata Description	Legend	Depth (m) (AOD)	Rotary Coring Depth (m)	TCR	SCR	RQD	FI	Casing Diameter	Water Strikes	Backfill / Installation
			20.70							
		21.26						21.26		
Black thinly laminated vitreous COAL. Discontinuities are subhorizontal, extremely to very closely spaced, undulating, smooth and clean.		(33.60)		87	75	0	20	21.49		
		21.49					15	21.66		
		(33.37)					NI	21.77		
Extremely weak to very weak thickly to thinly laminated grey and greyish brown silty MUDSTONE. Discontinuities are horizontal to subhorizontal (5 degrees), very closely spaced, planar to undulating, smooth to rough and clean. From 21.66m to 21.77m bgl non- intact.		22.20	22.20				9	22.20		
		(32.66)					NR			
Assumed zone of core loss.		22.70					NI	22.70		
		(32.16)		67	24	0	12	22.75		
Extremely weak thinly to thickly laminated dark grey and grey brown SILTSTONE grading to a gravelly silt. Discontinuities are horizontal to subhorizontal, very closely to closely spaced, undulating to stepped, smooth and clay/silt infilled. From 22.70m to 22.75m bgl non intact. Recovered as silty gravel. From 23.00m to 23.10m bgl non intact. Recovered as silty clayey gravel.		23.70					NI	23.00		
								23.10		
							15			
								23.70		
Very stiff grey silty clay/weathered grey MUDSTONE. (Drillers description).		(31.16)								
		26.40								
Stronger weathered MUDSTONE. (Drillers description).		(28.46)								
		30.00								
End of Borehole at 30.00m bgl		(24.86)		TCR	SCR	RQD	FI			

Remarks / Observations:

1. Inspection pit hand excavated to 1.50m bgl prior to drilling.
2. Groundwater not observed during drilling.
3. Upon completion 50mm diameter gas/groundwater monitoring standpipe installed to 30.00m bgl.
4. Minirae 2000 PID readings taken on samples, results in parts per

Dynamic Sampling Runs

From	To	Diameter	Recovery
1.50	2.50	117mm	100%
2.50	3.50	117mm	100%
3.50	4.50	107mm	100%
4.50	5.50	107mm	100%
5.50	11.80	97mm	100%
11.80	12.00	97mm	20%

Groundwater

Depth Struck	Rising To	Time (mins)	Remarks

SPT Hammer Ref :
SPT Energy Ration (Er) :

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Ground Engineering Services
Arndale Court, Headingley, Leeds. LS6 2UJ.
Tel. 0113 278 7111 Fax. 0113 275 0623

Exploratory Hole Number
RBH102
Final

Project : **Bradford Road, Manchester**

Project Number : **A074754-28**
Client : **National Grid Property Holdings Ltd**
Method : **Dynamic Sampling / Rotary Cored / Open Hole**
Co-ordinates : **386524.89E - 399090.44N** **Level** : **52.74m AOD**

Hole Information

From	To	Method	Diameter
0.00m	1.50m	Inspection Pit	-
1.50m	4.50m	Dynamic Sampler	107mm
4.50m	12.00m	Rotary Open Hole	120mm
12.00m	13.50m	Rotary Cored	76mm
13.50m	14.50m	Rotary Open Hole	120mm
14.50m	22.50m	Rotary Cored	76mm
22.50m	25.00m	Rotary Open Hole	120mm

Scale 1:50 **Sheet 1 of 3**
Logged By : **RLP**
Checked By : **BH**
Start Date : **15/01/2013**
Finish Date : **17/01/2013**

Strata Description	Legend	Depth (m) (AOD)	Samples & In Situ Testing: Depth (m)	Type	Results/Remarks	Casing Diameter	Water Strikes	Backfill / Installation
MADE GROUND: Soft dark brown slightly gravelly sandy slightly organic CLAY with roots and rootlets. Sand is fine to coarse. Gravel is very angular to angular fine to coarse brick and concrete.		0.40	0.20	ES1				
			0.30	D2				
		0.60					▽ 0.60	
MADE GROUND: Greyish brown very angular to subangular concrete COBBLES and BOULDERS with a little gravel and some sand and clay. Sand is fine to coarse. Gravel is very angular to angular fine to coarse brick and concrete. Cobbles are very angular to subangular brick and concrete.		(52.34) (52.14)	1.00	ES3			▽ 1.10	
Firm to stiff grey brown slightly gravelly slightly sandy CLAY with rare rootlets and gravel sized fragments of shell. Sand is fine to coarse. Gravel is angular to subrounded fine to coarse sandstone, chert, mudstone and rare coal.			2.00-2.50	U4	69 blows			
			2.20	D5				
			2.50	S	N=30 (3,4/8,7,8,7)			
			2.50	D6				
			3.50-4.50	B7				
						9.00 107mm		

Remarks / Observations: Continued next sheet

1. Inspection pit hand excavated to 1.50m bgl prior to drilling.
2. Upon completion 50mm diameter gas/groundwater monitoring standpipe installed to 24.50m bgl.

Dynamic Sampling Runs

From	To	Diameter	Recovery
1.50	2.50	117mm	100%
2.50	3.50	117mm	100%
3.50	4.50	107mm	100%

Groundwater

Depth Struck	Rising To	Time (mins)	Remarks
0.60m	-	-	
1.10m	-	-	

SPT Hammer Ref :
SPT Energy Ration (Er) : -

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Arndale Court, Headingley, Leeds. LS6 2UJ.
Tel. 0113 278 7111 Fax. 0113 275 0623

Exploratory Hole Number
RBH102
Final

Project : **Bradford Road, Manchester**
Project Number : **A074754-28**
Client : **National Grid Property Holdings Ltd**
Method : **Dynamic Sampling/Rotary Cored/Open Hole**
Co-ordinates : **386524.89E - 399090.44N Level : 52.74m AOD**

Hole Information

From	To	Method	Diameter
0.00m	1.50m	Inspection Pit	-
1.50m	4.50m	Dynamic Sampler	107mm
4.50m	12.00m	Rotary Open Hole	120mm
12.00m	13.50m	Rotary Cored	76mm
13.50m	14.50m	Rotary Open Hole	120mm
14.50m	22.50m	Rotary Cored	76mm
22.50m	25.00m	Rotary Open Hole	120mm

Scale 1:50 Sheet 2 of 3
Logged By : RLP
Checked By : BH
Start Date : 15/01/2013
Finish Date : 17/01/2013

Strata Description	Legend	Depth (m) (AOD)	Samples & In Situ Testing: Depth (m)	Type	Results/Remarks			Casing Diameter	Water Strikes	Backfill / Installation
		10.80								
Soft grey mottled brown gravelly slightly sandy CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse sandstone, chert, mudstone and occasional coal.		(41.94)	11.50	D8						
		12.10	12.00				NI	12.10		
Assumed zone of core loss.		(40.64)		10	0	0	NR			
		13.50						13.50		
Soft grey mottled brown gravelly slightly sandy CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse sandstone, chert, mudstone and occasional coal.		(39.24)								
		14.50	14.50							
Extremely weak grey to brownish grey SILTSTONE. (Recovered as very silty/clayey gravel. Gravel is angular to subrounded fine to coarse).		(38.24)		70	0	0	NI			
		15.20						15.20		
Assumed zone of core loss.		(37.54)					NR			
		15.50	15.50					15.50		
Extremely weak grey to brownish grey SILTSTONE. (Recovered as silty/clayey gravel. Gravel is angular to subrounded fine to coarse).		(37.24)					NI			
		15.97						15.97		
Assumed zone of core loss.		(36.77)		31	0	0	NR			
		17.00	17.00					17.00		
Very weak grey brown and light grey SILTSTONE.		(35.74)					NI	17.10		
		17.27					7	17.27		
Very weak to weak black vitreous COAL.		(35.47)					NI			
		17.59						17.57		
Very weak to weak dark grey SILTSTONE. Discontinuities are subhorizontal, very closely to closely spaced, planar to undulating, smooth and clay infilled.		(35.15)		73	45	22	11			
		18.10						18.10		
Assumed zone of core loss.		(34.64)					NR			
		18.50	18.50					18.50		
Non intact. Recovered as dark grey GRAVEL. Gravel is angular to subangular fine to coarse siltstone.		(34.24)					NI			
		18.80						18.80		
Weak thickly laminated grey and light grey SILTSTONE. Discontinuities are subhorizontal, closely spaced, undulating, smooth and occasional clay infilled.		(33.94)		100	73	21	11			
							NI	19.65		
		20.00					10	19.70		
			20.00					20.00		
Weak to medium strong dark grey SILTSTONE. Discontinuities		(32.74)					14			
				TCR	SCR	RQD	NI	20.28		
								20.35		

Remarks / Observations: Continued next sheet

1. Inspection pit hand excavated to 1.50m bgl prior to drilling.
2. Upon completion 50mm diameter gas/groundwater monitoring standpipe installed to 24.50m bgl.

Dynamic Sampling Runs

From	To	Diameter	Recovery
1.50	2.50	117mm	100%
2.50	3.50	117mm	100%
3.50	4.50	107mm	100%

Groundwater

Depth Struck	Rising To	Time (mins)	Remarks
0.60m	-	-	
1.10m	-	-	

SPT Hammer Ref :
SPT Energy Ration (Er) : -

WYG ENVIRONMENT

Ground Engineering Services

Arndale Court, Headingley, Leeds. LS6 2UJ.
Tel. 0113 278 7111 Fax. 0113 275 0623

Exploratory Hole Number

RBH102

Final

Project : **Bradford Road, Manchester**

Project Number : **A074754-28**
Client : **National Grid Property Holdings Ltd**
Method : **Dynamic Sampling / Rotary Cored / Open Hole**
Co-ordinates : **386524.89E - 399090.44N** **Level** : **52.74m AOD**

Hole Information

From	To	Method	Diameter
0.00m	1.50m	Inspection Pit	-
1.50m	4.50m	Dynamic Sampler	107mm
4.50m	12.00m	Rotary Open Hole	120mm
12.00m	13.50m	Rotary Cored	76mm
13.50m	14.50m	Rotary Open Hole	120mm
14.50m	22.50m	Rotary Cored	76mm
22.50m	25.00m	Rotary Open Hole	120mm

Scale 1:50 **Sheet 3 of 3**

Logged By : **RLP**
Checked By : **BH**
Start Date : **15/01/2013**
Finish Date : **17/01/2013**

Strata Description	Legend	Depth (m) (AOD)	Rotary Coring Depth (m)	TCR	SCR	RQD	FI	Casing Diameter	Water Strikes	Backfill / Installation
are subhorizontal, closely spaced, undulating, smooth and partially clay infilled.				70	45	11	10	20.45		
							NI	20.50		
							>25	20.70		
							NR			
From 21.00m to 21.08m bgl Non intact. Recovered as greyish brown gravelly silty clay.			21.00				NI	21.00		
								21.08		
							>25	21.35		
		21.70					15			
Medium strong very thinly bedded pale grey and grey brown sandy SILTSTONE. Discontinuities are subhorizontal, closely to very closely spaced, undulating, rough to smooth and clay infilled.		21.90		93	20	0		21.90		
		(31.04)					NR	22.00		
		22.00								
		(30.84)								
		(30.74)					NI			
Assumed zone of core loss.		22.50						22.50		
		(30.24)								
Non intact. Recovered as grey gravelly silty clay.										
Very strong grey silty MUDSTONE. (Drillers description).										
		25.00								
End of Borehole at 25.00m bgl		(27.74)								
				TCR	SCR	RQD	FI			

Remarks / Observations:

1. Inspection pit hand excavated to 1.50m bgl prior to drilling.
2. Upon completion 50mm diameter gas/groundwater monitoring standpipe installed to 24.50m bgl.

Dynamic Sampling Runs

From	To	Diameter	Recovery
1.50	2.50	117mm	100%
2.50	3.50	117mm	100%
3.50	4.50	107mm	100%

Groundwater

Depth Struck	Rising To	Time (mins)	Remarks
0.60m	-	-	
1.10m	-	-	

SPT Hammer Ref :
SPT Energy Ration (Er) : -

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Tel. 0113 278 7111 Fax. 0113 275 0623.

Exploratory Hole Number
BH101
Final

Project : Bradford Road, Manchester
Project Number : A074754-28
Client : National Grid Property Holdings Ltd
Method : Vacuum Excavated
Co-ordinates : 386553.48E - 399069.78N
Level : 51.94m AOD

Scale 1:50 Sheet 1 of 1
Logged By : RLP
Checked By : BH
Start Date : 11/01/13
Finish Date : 11/01/13

Strata Description	Legend	Reduced Level (mOD)	Depth (m)	Water Strike (m)	Installation/ Backfill	Sample Test Depth	Sample Test Type	Notes / Remarks
MADE GROUND: Vegetation over dark brownish grey sandy slightly clayey GRAVEL. Sand is fine to coarse. Gravel is angular to subrounded fine to coarse clinker, brick and concrete.		51.34	**0.60**			0.50 0.50	ES1 D2	
End of Inspection Pit at 0.60m bgl.								

Observations / Remarks

1. Groundwater not observed during excavation.
2. Inspection pit terminated at 0.60m bgl and relocated (BH101A) due to close proximity of MP gas main.
3. Upon completion inspection pit backfilled with arisings.

Excavation Information

Length : 0.40m
Width : 0.30m
Orientation : 90 degrees
Shoring : None
Stability : Stable

Groundwater			
Struck	Rising to	Time (mins)	Remarks

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Exploratory Hole Number
BH101A
Final

Project : **Bradford Road, Manchester**
Project Number : **A074754-28**
Client : **National Grid Property Holdings Ltd**
Method : **Vacuum Excavated**
Co-ordinates : **386551.88E - 399070.19N**
Level : **51.94m AOD**

Scale 1:50 **Sheet 1 of 1**
Logged By : **RLP**
Checked By : **BH**
Start Date : **11/01/13**
Finish Date : **11/01/13**

Strata Description	Legend	Reduced Level (mOD)	Depth (m)	Water Strike (m)	Installation/ Backfill	Sample Test Depth	Sample Test Type	Notes / Remarks
MADE GROUND: Vegetation over dark brownish grey sandy slightly clayey GRAVEL. Sand is fine to coarse. Gravel is angular to subrounded fine to coarse clinker, brick and concrete.		51.50	**0.44**					
MADE GROUND: CONCRETE.		51.49	**0.45**					
End of Inspection Pit at 0.45m bgl.								

Observations / Remarks

1. Groundwater not observed during excavation.
2. Inspection pit terminated at 0.60m bgl due to concrete obstruction.
3. Upon completion inspection pit backfilled with arisings.

Excavation Information

Length : 0.40m
Width : 0.40m
Orientation : 90 degrees
Shoring : None
Stability : Stable

Groundwater

Struck	Rising to	Time (mins)	Remarks

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Arndale Court, Headingley, Leeds. LS6 2UJ.
Tel. 0113 278 7111 Fax. 0113 275 0623.

Exploratory Hole Number
BH101B
Final

Project : Bradford Road, Manchester
Project Number : A074754-28
Client : National Grid Property Holdings Ltd
Method : Vacuum Excavated
Co-ordinates : 386558.50E - 399084.74N
Level : 52.11m AOD

Scale 1:50 **Sheet 1 of 1**
Logged By : RLP
Checked By : BH
Start Date : 11/01/13
Finish Date : 11/01/13

Strata Description	Legend	Reduced Level (mOD)	Depth (m)	Water Strike (m)	Installation/ Backfill	Sample Test Depth	Sample Test Type	Notes / Remarks
MADE GROUND: Light greyish brown sandy GRAVEL. Sand is fine to coarse. Gravel is angular to subrounded fine to medium limestone and sandstone.		51.91	**0.20**					
MADE GROUND: Light grey CONCRETE.		51.81	**0.30**					
MADE GROUND: Dark grey engineering bricks.		51.71	**0.40**					
MADE GROUND: Grey CONCRETE.		51.66	**0.45**					
End of Inspection Pit at 0.45m bgl.								

Observations / Remarks

1. Groundwater not observed during excavation.
2. Inspection pit terminated at 0.45m bgl due to concrete obstruction.
3. Upon completion inspection pit backfilled with arisings.

Excavation Information

Length : 0.90m
Width : 0.70m
Orientation : 90 degrees
Shoring : None
Stability : Stable

Groundwater			
Struck	Rising to	Time (mins)	Remarks

WYG ENVIRONMENT

Ground Engineering Services

Arndale Court, Headingley, Leeds. LS6 2UJ.
Tel: 0113 219 2200 Fax: 0113 275 0623

Exploratory Hole Number

BH102

Final

Project : Bradford Road, Manchester
Project Number: A074754-28
Client : National Grid Property Holdings Ltd
Method : Dynamic Sampling
Co-ordinates : 386506.75E - 399036.17N
Level : 52.26m AOD

Scale 1:50 **Sheet 1 of 2**

Logged By : RLP
Checked By : BH
Start Date : 14/01/13
Finish Date : 14/01/13

Strata Description	Legend	Reduced Level (mOD)	Depth (m)	Casing (m)	Water Strike (m)	Installation Backfill	Sample Test Depth	Sample Test Type	Notes / Remarks
MADE GROUND: Reinforced CONCRETE. (Rebar <20mm diameter).		51.96	0.30						
MADE GROUND: Grey becoming yellow brown slightly sandy GRAVEL with medium cobble content. Sand is fine to coarse. Gravel is angular to subangular fine to coarse sandstone. Cobbles are angular sandstone, granite, concrete and brick.		51.76	0.50		0.60		0.40	ES1	PID=0ppm
							0.60	ES2	PID=1ppm
		51.46	0.80				0.80	ES3	PID=1ppm
		51.41	0.85				0.90	ES4	PID=0ppm
		51.26	1.00					D5	
MADE GROUND: Greyish brown and yellowish brown slightly sandy slightly silty slightly clayey GRAVEL with occasional lenses of slightly gravelly clay and medium cobble content. Sand is fine to coarse. Gravel is angular to subangular fine to coarse brick, sandstone and concrete. Cobbles are angular brick and concrete. Strong hydrocarbon odour and sheen noted to water.							1.30	ES6	PID=0ppm
							1.60	ES7	PID=0ppm
							1.80	D8	PID=0ppm
							2.00-2.50	U9	57blows
Firm friable dark grey brown slightly gravelly very organic CLAY/SILT. Strong hydrocarbon odour, sheen and oily texture noted.		49.76	2.50						
							2.70	ES10	PID=0ppm
							2.80	D11	PID=0ppm
		49.26	3.00		3.00		3.00	S	N=38 (6,5/9,10,9,10)
Firm to stiff dark becoming light brown slightly gravelly slightly sandy CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to medium sandstone.									
Firm brown slightly gravelly sandy CLAY. Sand is fine to coarse. Gravel is angular to subrounded fine to medium sandstone, mudstone and coal. From 1.45m to 1.60m bgl spotted yellow brown and dark grey. From 1.60m bgl becoming yellowish brown with rare relic rootlets. From 1.80m bgl becoming stiff.									
Grey brown slightly gravelly clayey SAND with many pockets of sandy clay and rare relic rootlets. Sand is fine to coarse. Gravel is angular to subrounded fine to coarse sandstone.									
Brownish grey slightly gravelly slightly sandy CLAY with occasional relic rootlets. Sand is fine to coarse. Gravel is angular to rounded fine to coarse sandstone, mudstone and coal.				6.50 107mm					
		43.26	9.00				9.00	S	50 for 50mm 50 (25 for 45mm/50 for 50mm)
Very weak red SANDSTONE. Recovered as red sand. Sand is fine to medium. (Possible boulder).									
Continued next sheet		42.26							

Observations / Remarks

1. BH102 continued from base of TP105.
2. Upon completion 50mm diameter gas/groundwater monitoring standpipe installed to 3.00m bgl.
3. Minirae 2000 PID readings taken on samples, results in parts per million (ppm).

Dynamic Sampling Runs

From	To	Diameter	Recovery	Remarks
1.00m	2.00m	117mm	100%	
2.00m	2.50m	117mm	100%	
2.50m	3.00m	107mm	100%	
3.00m	4.00m	107mm	100%	
4.00m	5.50m	107mm	50%	
5.50m	6.50m	97mm	100%	

Groundwater

Struck	Rising to	Time (mins)	Remarks
0.60m	-	-	Seepage
3.00m	-	-	Seepage

SPT Hammer Ref :

SPT Energy Ratio (Er) : -

WYG ENVIRONMENT
Ground Engineering Services
Arndale Court, Headingley, Leeds. LS6 2UJ.
Tel: 0113 219 2200 Fax: 0113 275 0623

Exploratory Hole Number
BH102
Final

Project : Bradford Road, Manchester
Project Number: A074754-28
Client : National Grid Property Holdings Ltd
Method : Dynamic Sampling
Co-ordinates : 386506.75E - 399036.17N
Level : 52.26m AOD

Scale 1:50 **Sheet 2 of 2**
Logged By : RLP
Checked By : BH
Start Date : 14/01/13
Finish Date : 14/01/13

Strata Description	Legend	Reduced Level (mOD)	Depth (m)	Casing (m)	Water Strike (m)	Installation Backfill	Sample Test Depth	Sample Test Type	Notes / Remarks
Very weak red SANDSTONE. Recovered as red sand. Sand is fine to medium. (Possible boulder).			10.00						
End of Windowless Sample at 10.00m bgl									

Observations / Remarks

1. BH102 continued from base of TP105.
2. Upon completion 50mm diameter gas/groundwater monitoring standpipe installed to 3.00m bgl.
3. Minirae 2000 PID readings taken on samples, results in parts per million (ppm).

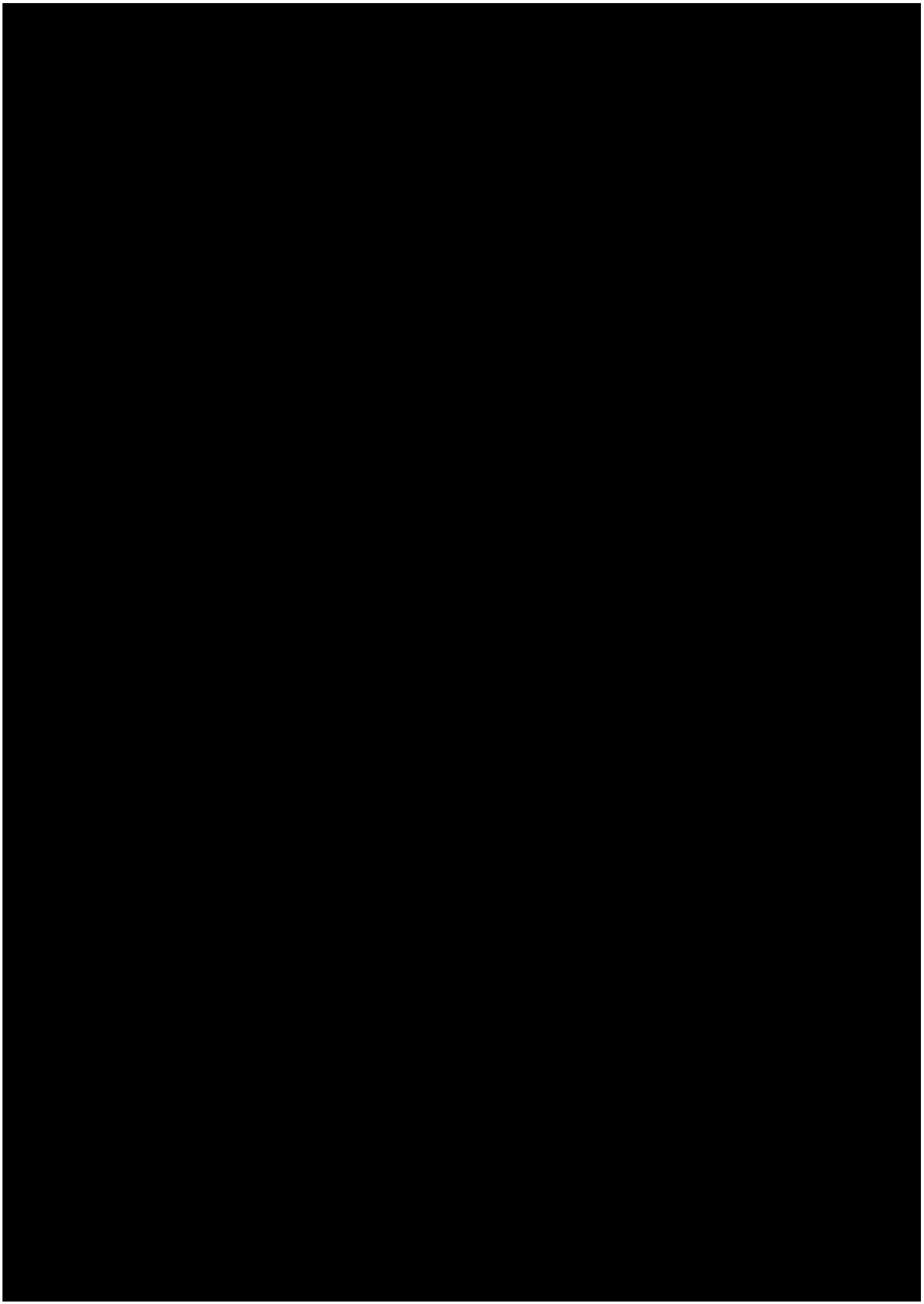
Dynamic Sampling Runs

From	To	Diameter	Recovery	Remarks

Groundwater

Struck	Rising to	Time (mins)	Remarks
0.60m	-	-	Seepage
3.00m	-	-	Seepage

SPT Hammer Ref :
SPT Energy Ratio (Er) : -



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Exploratory Hole Number
HP101
Final

Project : **Bradford Road, Manchester**
Project Number : **A074754-28**
Client : **National Grid Property Holdings Ltd**
Method : **Hand Excavated**
Co-ordinates : **386642.18E - 399168.72N**
Level : **54.28m AOD**

Scale 1:50 **Sheet 1 of 1**
Logged By : **RLP**
Checked By : **BH**
Start Date : **14/01/13**
Finish Date : **14/01/13**

Strata Description	Legend	Reduced Level (mOD)	Depth (m)	Water Strike (m)	Installation/ Backfill	Sample Test Depth	Sample Test Type	Notes / Remarks
MADE GROUND: Light grey GRAVEL. Gravel is angular fine to medium limestone and sandstone.		54.18	**0.10**					
MADE GROUND: Dark grey brown slightly sandy slightly clayey GRAVEL. Sand is fine to coarse. Gravel is angular to subangular fine to coarse predominantly fine clinker, occasional brick and sandstone.		53.68	**0.60**			0.30 0.30	ES1 D2	
MADE GROUND: Dark grey brown angular to subangular COBBLES and BOULDERS of engineering brick.		53.48	**0.80**					
Grey brown slightly gravelly slightly sandy CLAY. Sand is fine to coarse. Gravel is subrounded to rounded fine siltstone.		53.18	**1.10**			0.90 0.90	ES3 D4	
End of Inspection Pit at 1.10m bgl.								

Observations / Remarks

1. Groundwater not observed during excavation.
2. No visual or olfactory evidence of contamination.
3. Upon completion hand pit backfilled with arisings.

Excavation Information

Length : 0.50m
Width : 0.50m
Orientation : 0 degrees
Shoring : None
Stability : Stable

Groundwater			
Struck	Rising to	Time (mins)	Remarks

WYG ENVIRONMENT
Ground Engineering Services
Arndale Court, Headingley, Leeds. LS6 2UJ.
Tel. 0113 278 7111 Fax. 0113 275 0623.

Exploratory Hole Number
HP102
Final

Project : Bradford Road, Manchester
Project Number : A074754-28
Client : National Grid Property Holdings Ltd
Method : Hand Excavated
Co-ordinates : 386661.59E - 399255.83N
Level : 54.26m AOD

Scale 1:50 Sheet 1 of 1
Logged By : RLP
Checked By : BH
Start Date : 14/01/13
Finish Date : 14/01/13

Strata Description	Legend	Reduced Level (mOD)	Depth (m)	Water Strike (m)	Installation/ Backfill	Sample Test Depth	Sample Test Type	Notes / Remarks
MADE GROUND: Light grey GRAVEL. Gravel is angular fine to medium limestone and sandstone.		54.21	**0.05**			0.20	ES1	PID=0.0ppm
						0.20	D2	
		53.86	**0.40**					
MADE GROUND: Dark grey sandy slightly clayey GRAVEL. Sand is ash. Gravel is angular to subrounded fine to coarse clinker, occasional brick and sandstone.								
Pale grey becoming grey brown slightly gravelly CLAY. Gravel is subrounded fine sandstone and siltstone.						1.10	ES3	PID=0.0ppm
		52.96	**1.30**			1.10	D4	
End of Inspection Pit at 1.30m bgl.								

Observations / Remarks

1. Groundwater not observed during excavation, surface water ingress.
2. No visual or olfactory evidence of contamination.
3. Upon completion hand pit backfilled with arisings.
4. Minirae 2000 PID readings taken on samples, results in parts per million (ppm).

Excavation Information

Length : 0.40m
Width : 0.40m
Orientation : 0 degrees
Shoring : None
Stability : Stable

Groundwater

Struck	Rising to	Time (mins)	Remarks

WYG ENVIRONMENT
Ground Engineering Services
Arndale Court, Headingley, Leeds. LS6 2UJ.
Tel. 0113 278 7111 Fax. 0113 275 0623.

Exploratory Hole Number
HP103
Final

Project : Bradford Road, Manchester
Project Number : A074754-28
Client : National Grid Property Holdings Ltd
Method : Hand Excavated
Co-ordinates : 386583.84E - 399139.99N
Level : 52.02m AOD

Scale 1:50 Sheet 1 of 1
Logged By : RLP
Checked By : BH
Start Date : 14/01/13
Finish Date : 14/01/13

Strata Description	Legend	Reduced Level (mOD)	Depth (m)	Water Strike (m)	Installation/ Backfill	Sample Test Depth	Sample Test Type	Notes / Remarks
MADE GROUND: Grass over concrete.		51.77	**0.25**			0.30	ES1	
MADE GROUND: Dark grey brown sandy slightly clayey GRAVEL. Sand is fine to coarse. Gravel is angular to subrounded fine to coarse brick, clinker, concrete and occasional sandstone.		51.52 51.42	**0.50** **0.60**					
MADE GROUND: Yellow brown sandy GRAVEL. Sand is fine to coarse. Gravel is angular to subangular fine to medium sandstone.						1.00 1.00	ES2 D3	
Brown grey slightly gravelly slightly sandy CLAY. Sand is fine to coarse. Gravel is subrounded to rounded fine to medium sandstone and siltstone.		50.72	**1.30**					
End of Inspection Pit at 1.30m bgl.								

Observations / Remarks

1. Groundwater not observed during excavation.
2. Upon completion hand pit backfilled with arisings.

Excavation Information

Length : 0.50m
Width : 0.30m
Orientation : 0 degrees
Shoring : None
Stability : Stable

Groundwater

Struck	Rising to	Time (mins)	Remarks

Appendix G2 - Trial Pit Logs

WYG ENVIRONMENT
Ground Engineering Services
Arndale Court, Headingley, Leeds. LS6 2UJ.
Tel. 0113 278 7111 Fax. 0113 275 0623.

Exploratory Hole Number
TP101
Final

Project : Bradford Road, Manchester
Project Number : A074754-28
Client : National Grid Property Holdings Ltd
Method : Wheeled Backhoe Excavator
Co-ordinates : 386696.13E - 399150.41N
Level : 54.41m AOD

Scale 1:50 **Sheet 1 of 1**
Logged By : RLP
Checked By : BH
Start Date : 10/01/13
Finish Date : 10/01/13

Strata Description	Legend	Reduced Level (mOD)	Depth (m)	Water Strike (m)	Installation/ Backfill	Sample Test Depth	Sample Test Type	Notes / Remarks
MADE GROUND: Light grey GRAVEL. Gravel is angular medium limestone and sandstone.		54.21	**0.20**					
MADE GROUND: Grey brown sandy GRAVEL. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse sandstone, limestone and occasional concrete.		54.01	**0.40**			0.30 0.40-0.45	ES1 ES2	PID=0.0ppm PID=0.0ppm
Stiff red brown mottled grey slightly gravelly CLAY with occasional small pockets of slightly gravelly sand. Sand is coarse. Gravel is subrounded to rounded fine to medium sandstone and mudstone. From 0.40m to 0.45m bgl with grey black staining, no odour.						1.00	ES3	PID=0.0ppm
						2.00	D4	
		51.91	**2.50**					
End of Trial Pit at 2.50m bgl.								

Observations / Remarks
1. Groundwater not observed during excavation.
2. Upon completion trial pit backfilled with arisings.
3. Minirae 2000 PID readings taken on samples, results in parts per million (ppm).

Excavation Information

Length : 2.50m
Width : 0.80m
Orientation : 0º
Shoring : None
Stability : Stable

Groundwater

Struck	Rising to	Time (mins)	Remarks

WYG ENVIRONMENT
Ground Engineering Services
Arndale Court, Headingley, Leeds. LS6 2UJ.
Tel. 0113 278 7111 Fax. 0113 275 0623.

Exploratory Hole Number
TP102
Final

Project : Bradford Road, Manchester
Project Number : A074754-28
Client : National Grid Property Holdings Ltd
Method : Vacuum Excavated
Co-ordinates : 386573.36E - 399116.65N
Level : 52.10m AOD

Scale 1:50 **Sheet 1 of 1**
Logged By : RLP
Checked By : BH
Start Date : 11/01/13
Finish Date : 11/01/13

Strata Description	Legend	Reduced Level (mOD)	Depth (m)	Water Strike (m)	Installation/ Backfill	Sample Test Depth	Sample Test Type	Notes / Remarks
MADE GROUND: Grey brown sandy slightly clayey GRAVEL with medium cobble content. Sand is fine to coarse. Gravel is angular to subrounded fine to coarse tarmac, brick and concrete. Cobbles are angular brick. From 0.30m to 0.60m bgl hydrocarbon odour and sheen noted.		51.50	**0.60**	▽ 0.20		0.20 0.20 0.40	ES1 D2 ES3	
End of Trial Pit at 0.60m bgl.								

Observations / Remarks
1. Trial pit terminated at 0.60m bgl due to water and boulder of concrete obstruction.
2. Upon completion trial pit backfilled with arisings.

Excavation Information

Length : 0.50m
Width : 0.50m
Orientation : -
Shoring : None
Stability : Stable

Groundwater

Struck	Rising to	Time (mins)	Remarks
0.20	-	-	Fast

WYG ENVIRONMENT
Ground Engineering Services
Arndale Court, Headingley, Leeds. LS6 2UJ.
Tel. 0113 278 7111 Fax. 0113 275 0623.

Exploratory Hole Number
TP103
Final

Project : Bradford Road, Manchester
Project Number : A074754-28
Client : National Grid Property Holdings Ltd
Method : Hand Dug / Vacuum Excavated
Co-ordinates : 386555.07E - 399077.01N
Level : 51.90m AOD

Scale 1:50 Sheet 1 of 1
Logged By : RLP
Checked By : BH
Start Date : 11/01/13
Finish Date : 11/01/13

Strata Description	Legend	Reduced Level (mOD)	Depth (m)	Water Strike (m)	Installation/ Backfill	Sample Test Depth	Sample Test Type	Notes / Remarks
MADE GROUND: Grey brown COBBLES with medium gravel, low sand and low clay content. Sand is fine to coarse. Gravel is angular to subangular fine to coarse concrete and brick. Cobbles are angular sandstone, concrete and brick.		51.40	**0.50**					
MADE GROUND: Concrete walls, with brick filled cavity. Bricks loose.		51.20	**0.70**					
End of Trial Pit at 0.70m bgl.								

Observations / Remarks
1. Groundwater not observed during excavation.
2. Trial pit terminated at 0.70m bgl due to concrete obstruction.
3. Upon completion trial pit backfilled with arisings.

Excavation Information

Length : 0.50m
Width : 0.25m
Orientation : 0º
Shoring : None
Stability : Stable

Groundwater

Struck	Rising to	Time (mins)	Remarks

WYG ENVIRONMENT
Ground Engineering Services
Arndale Court, Headingley, Leeds. LS6 2UJ.
Tel. 0113 278 7111 Fax. 0113 275 0623.

Exploratory Hole Number
TP103A
Final

Project : Bradford Road, Manchester
Project Number : A074754-28
Client : National Grid Property Holdings Ltd
Method : Hand Dug / Vacuum Excavated
Co-ordinates : 386555.75E - 399075.90N
Level : 51.91m AOD

Scale 1:50 Sheet 1 of 1
Logged By : RLP
Checked By : BH
Start Date : 11/01/13
Finish Date : 11/01/13

Strata Description	Legend	Reduced Level (mOD)	Depth (m)	Water Strike (m)	Installation/ Backfill	Sample Test Depth	Sample Test Type	Notes / Remarks
MADE GROUND: Grey brown COBBLES with some gravel and low sand and clay content. Sand is fine to coarse. Gravel is angular to subangular fine to coarse concrete and brick. Cobbles are angular sandstone, concrete and brick.		51.41	**0.50**			0.30	ES1	PID=0.0ppm
MADE GROUND: Concrete.		51.40	**0.51**					
End of Trial Pit at 0.51m bgl.								

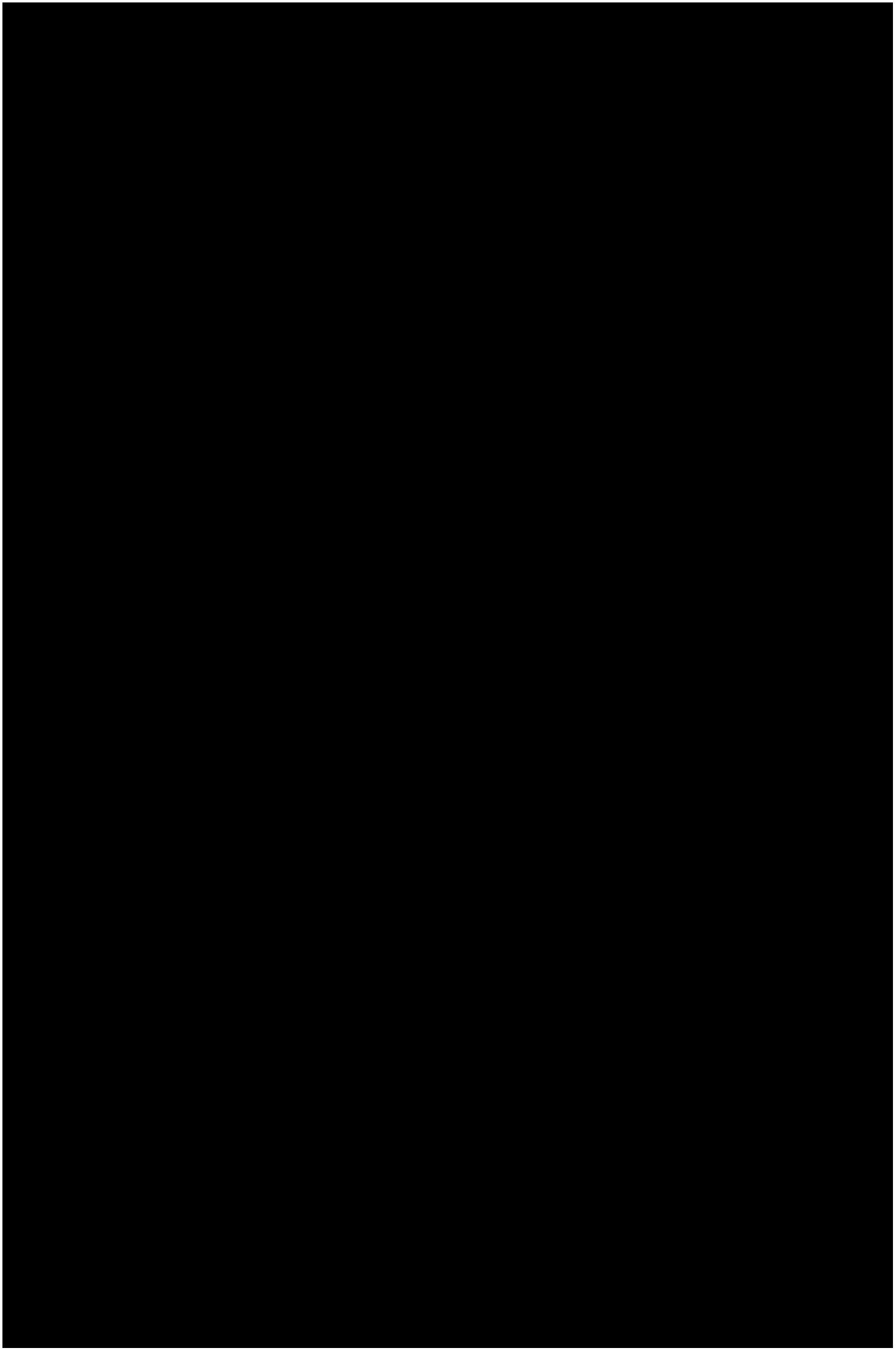
Observations / Remarks
1. Groundwater not observed during excavation.
2. Trial pit terminated at 0.51m bgl due to concrete obstruction.
3. Upon completion trial pit backfilled with arisings.
4. Minirae 2000 PID readings taken on samples, results in parts per million (ppm).

Excavation Information

Length : 0.30m
Width : 0.30m
Orientation : 0º
Shoring : None
Stability : Stable

Groundwater

Struck	Rising to	Time (mins)	Remarks



WYG ENVIRONMENT
Ground Engineering Services
Arndale Court, Headingley, Leeds. LS6 2UJ.
Tel. 0113 278 7111 Fax. 0113 275 0623.

Exploratory Hole Number
TP104
Final

Project : Bradford Road, Manchester
Project Number : A074754-28
Client : National Grid Property Holdings Ltd
Method : Wheeled Backhoe Excavator
Co-ordinates : 386542.18E - 399106.82N
Level : 52.09m AOD

Scale 1:50 Sheet 1 of 1
Logged By : RLP
Checked By : BH
Start Date : 10/01/13
Finish Date : 10/01/13

Strata Description	Legend	Reduced Level (mOD)	Depth (m)	Water Strike (m)	Installation/ Backfill	Sample Test Depth	Sample Test Type	Notes / Remarks
MADE GROUND: Firm light grey brown and orange brown slightly gravelly slightly sandy CLAY. Sand is fine to coarse. Gravel is angular to subrounded fine to coarse sandstone.		51.69	**0.40**	▽ 0.20		0.20	ES1	PID=0.0ppm
MADE GROUND: Concrete.		51.49	**0.60**			0.60	ES2	PID=0.2ppm
		51.39	**0.70**			0.60	D3	
MADE GROUND: Dark grey slightly sandy GRAVEL. Sand is fine to coarse. Gravel is angular fine to coarse concrete, clinker and tarmac.		51.19	**0.90**			0.80	ES4	PID=0.0ppm
Firm to stiff brown slightly gravelly slightly sandy CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to medium mudstone.						0.80	D5	
End of Trial Pit at 0.90m bgl.								

Observations / Remarks
1. Upon completion trial pit backfilled with arisings.
2. Minirae 2000 PID readings taken on samples, results in parts per million (ppm).

Excavation Information

Length	3.00m
Width	0.80m
Orientation	90º
Shoring	None
Stability	Stable

Groundwater

Struck	Rising to	Time (mins)	Remarks
0.20	-	-	Fast

WYG ENVIRONMENT

Ground Engineering Services

Arndale Court, Headingley, Leeds. LS6 2UJ.
Tel. 0113 278 7111 Fax. 0113 275 0623.

Exploratory Hole Number

TP105

Final

Project : Bradford Road, Manchester
Project Number : A074754-28
Client : National Grid Property Holdings Ltd
Method : Wheeled Backhoe Excavator
Co-ordinates : 386507.02E - 399037.16N
Level : 52.03m AOD

Scale 1:50 Sheet 1 of 1

Logged By : RLP
Checked By : BH
Start Date : 10/01/13
Finish Date : 10/01/13

Strata Description	Legend	Reduced Level (mOD)	Depth (m)	Water Strike (m)	Installation/ Backfill	Sample Test Depth	Sample Test Type	Notes / Remarks
MADE GROUND: Reinforced CONCRETE. (Rebar <20mm diameter).		51.73	**0.30**					
MADE GROUND: Grey becoming yellow brown slightly sandy GRAVEL with medium cobble content. Sand is fine to coarse. Gravel is angular to subangular fine to coarse sandstone. Cobbles are angular sandstone, granite, concrete and brick.		51.53	**0.50**	▽ 0.50		0.40	ES1	PID=0.0ppm
						0.60	ES2	PID=0.3ppm
MADE GROUND: Grey brown and yellow brown slightly sandy slightly silty slightly clayey GRAVEL with occasional lenses of slightly gravelly clay and medium cobble content. Sand is fine to coarse. Gravel is angular to subangular fine to coarse brick, sandstone and concrete. Cobbles are angular brick and concrete. Strong hydrocarbon odour and sheen noted to water.		51.23	**0.80**			0.80	ES3	PID=0.6ppm
Firm friable dark grey brown slightly gravelly very silty organic CLAY. Strong hydrocarbon odour, sheen and oily texture noted.		51.18	**0.85**			0.90	ES4	PID=0.0ppm
Firm to stiff dark becoming light brown slightly gravelly slightly sandy CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to medium sandstone.		51.03	**1.00**			0.90	D5	
End of Trial Pit at 1.00m bgl.								

Observations / Remarks

1. Water ingress form south east corner.
2. Upon completion trial pit backfilled with arisings.
3. Minirae 2000 PID readings taken on samples, results in parts per million (ppm).
4. BH102 continued from base of TP105.

Excavation Information

Length : 3.50m
Width : 0.80m
Orientation : 0º
Shoring : None
Stability : Stable

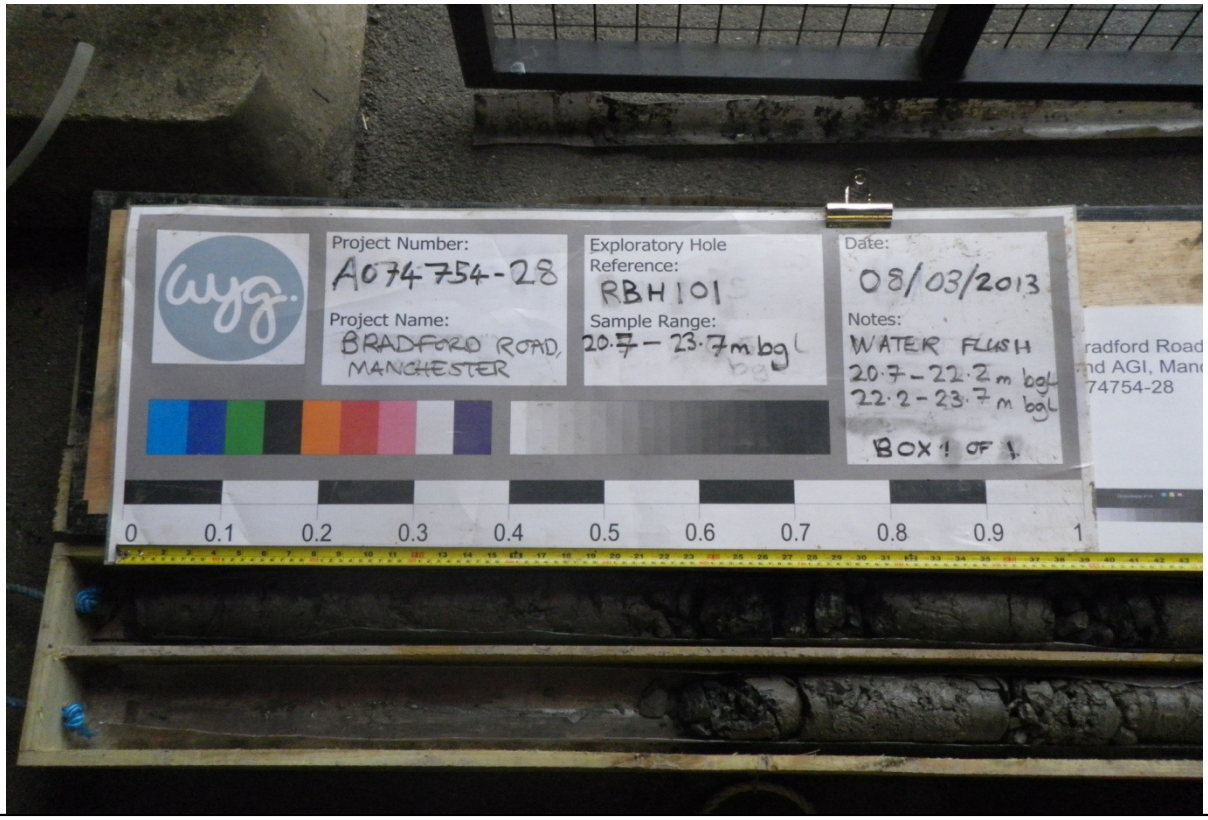
Groundwater

Struck	Rising to	Time (mins)	Remarks
0.50	-	-	Fast

Appendix G3 – Core Photographs



Photograph No.1: RBH101 – 19.20m to 20.70m bgl



Photograph No.2: RBH101 – 20.70m to 23.70m bgl (Left Side)

Arndale Court
Headingley
Leeds
LS6 2UJ

Tel: 0113 278 7111
Fax: 0113 275 0623
E-mail enviro.leeds@wyg.com

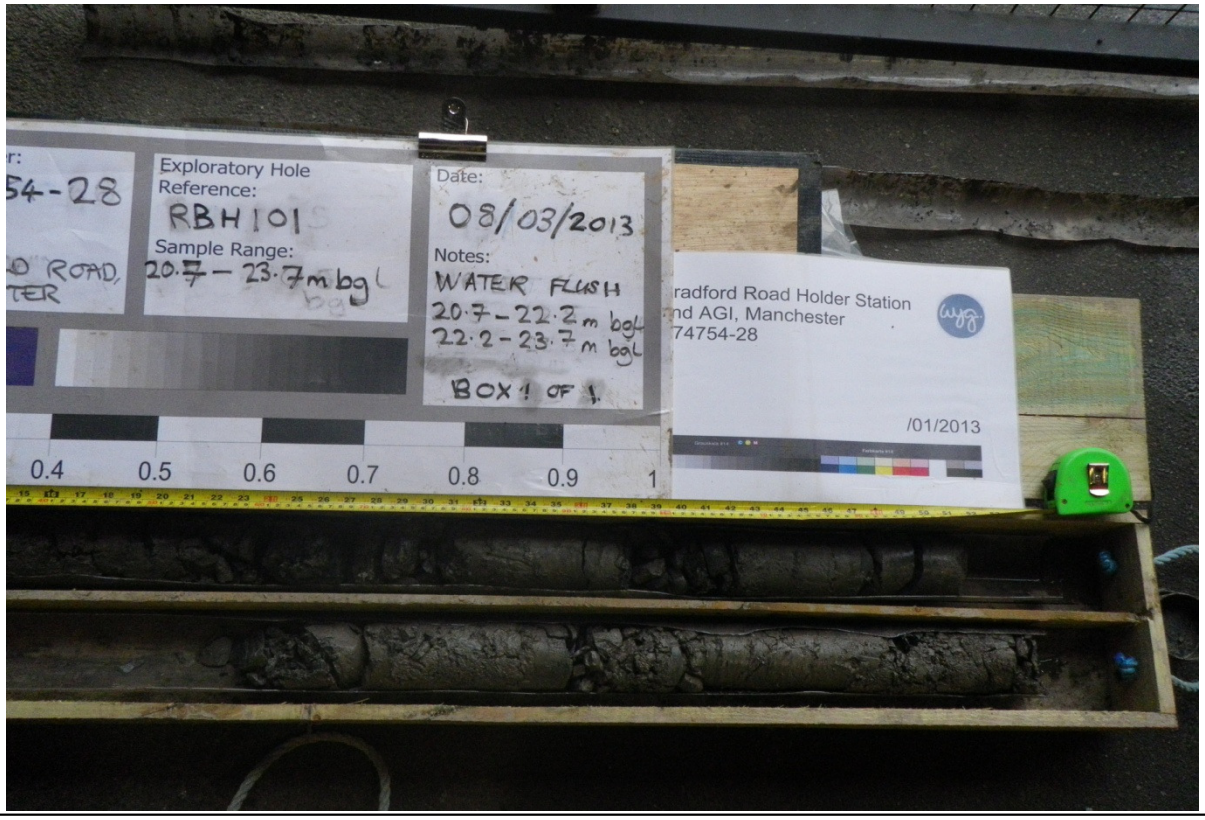
Environmental Consultancy
Ground Technologies & Investigation

Project :-
Bradford Road, Manchester

Core Photographs

Client:- National Grid Property Holdings Ltd

Project No. :- A074754-28 | **Date :-** April 2013



Photograph No.3: RBH101 – 20.70m to 23.70m bgl (Right Side)

Arndale Court
Headingley
Leeds
LS6 2UJ

Tel: 0113 278 7111
Fax: 0113 275 0623
E-mail enviro.leeds@wyg.com

Environmental Consultancy
Ground Technologies & Investigation

Project :-
Bradford Road, Manchester

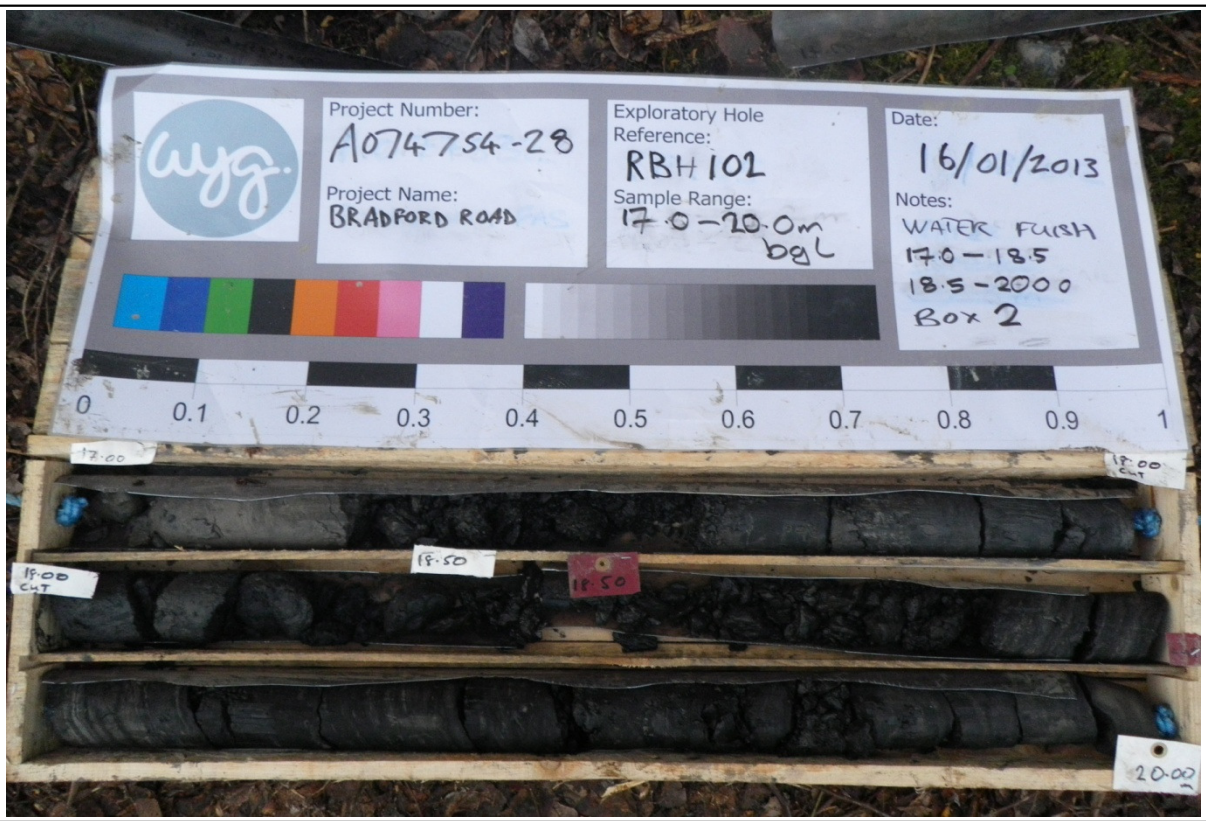
Core Photographs

Client:- National Grid Property Holdings Ltd

Project No. :- A074754-28 | **Date :-** April 2013



Photograph No.1: RBH102 – 14.50m to 17.00m bgl



Photograph No.2: RBH102 – 17.00m to 20.00m bgl

Arndale Court
Headingley
Leeds
LS6 2UJ

Tel: 0113 278 7111
Fax: 0113 275 0623
E-mail enviro.leeds@wyg.com

Environmental Consultancy
Ground Technologies & Investigation

Project :-
Bradford Road, Manchester

Core Photographs

Client:- National Grid Property Holdings Ltd

Project No. :- A074754-28 | **Date :-** April 2013



Photograph No.3: RBH102 – 20.00m to 22.50m bgl

Arndale Court
Headingley
Leeds
LS6 2UJ

Tel: 0113 278 7111
Fax: 0113 275 0623
E-mail enviro.leeds@wyg.com

Environmental Consultancy
Ground Technologies & Investigation

Project :-
Bradford Road, Manchester

Core Photographs

Client:- National Grid Property Holdings Ltd

Project No. :- A074754-28 | **Date :-** April 2013



Photograph No.3: RBH102 – 15.50m to 16.50m bgl

Arndale Court
Headingley
Leeds
LS6 2UJ

Tel: 0113 278 7111
Fax: 0113 275 0623
E-mail enviro.leeds@wyg.com

Environmental Consultancy
Ground Technologies & Investigation

Project :-
Bradford Road, Manchester

Core Photographs

Client:- National Grid Property Holdings Ltd

Project No. :- A074754-28 | **Date :-** April 2013

Appendix G4 – Trial Pit Photographs



Photograph No.1: HP101 (Base)



Photograph No.2: HP101 (Arisings)

Arndale Court
Headingley
Leeds
LS6 2UJ

Tel: 0113 278 7111
Fax: 0113 275 0623
E-mail enviro.leeds@wyg.com

Environmental Consultancy
Ground Technologies & Investigation

Project :-
Bradford Road, Manchester

Trial Pit Photographs – NGG1

Client:- National Grid Property Holdings Ltd

Project No. :- A074754-28 | **Date :-** April 2013



Photograph No.3: HP102 (Base)



Photograph No.4: HP102 (Arisings)

Arndale Court
Headingley
Leeds
LS6 2UJ

Tel: 0113 278 7111
Fax: 0113 275 0623
E-mail enviro.leeds@wyg.com

Environmental Consultancy
Ground Technologies & Investigation

Project :-
Bradford Road, Manchester

Trial Pit Photographs – NGG1

Client:- National Grid Property Holdings Ltd

Project No. :- A074754-28 | **Date :-** April 2013



Photograph No.4: TP101 (Base)



Photograph No.5: TP101 (Arisings)

Arndale Court
Headingley
Leeds
LS6 2UJ

Tel: 0113 278 7111
Fax: 0113 275 0623
E-mail enviro.leeds@wyg.com

Environmental Consultancy
Ground Technologies & Investigation

Project :-
Bradford Road, Manchester

Trial Pit Photographs – NGG1

Client:- National Grid Property Holdings Ltd

Project No. :- A074754-28 | **Date :-** April 2013



Photograph No.1: BH101



Photograph No.2: BH101A

Arndale Court
Headingley
Leeds
LS6 2UJ

Tel: 0113 278 7111
Fax: 0113 275 0623
E-mail enviro.leeds@wyg.com

Environmental Consultancy
Ground Technologies & Investigation

Project :-
Bradford Road, Manchester

Trial Pit Photographs – NGG2

Client:- National Grid Property Holdings Ltd

Project No. :- A074754-28 | **Date :-** April 2013



Photograph No.3: BH101B

Arndale Court
Headingley
Leeds
LS6 2UJ

Tel: 0113 278 7111
Fax: 0113 275 0623
E-mail enviro.leeds@wyg.com

Environmental Consultancy
Ground Technologies & Investigation

Project :-
Bradford Road, Manchester

Trial Pit Photographs – NGG2

Client:- National Grid Property Holdings Ltd

Project No. :- A074754-28 | **Date :-** April 2013



Photograph No.4: HP103 (Top)



Photograph No.5: HP103 (Base)

Arndale Court
Headingley
Leeds
LS6 2UJ

Tel: 0113 278 7111
Fax: 0113 275 0623
E-mail enviro.leeds@wyg.com

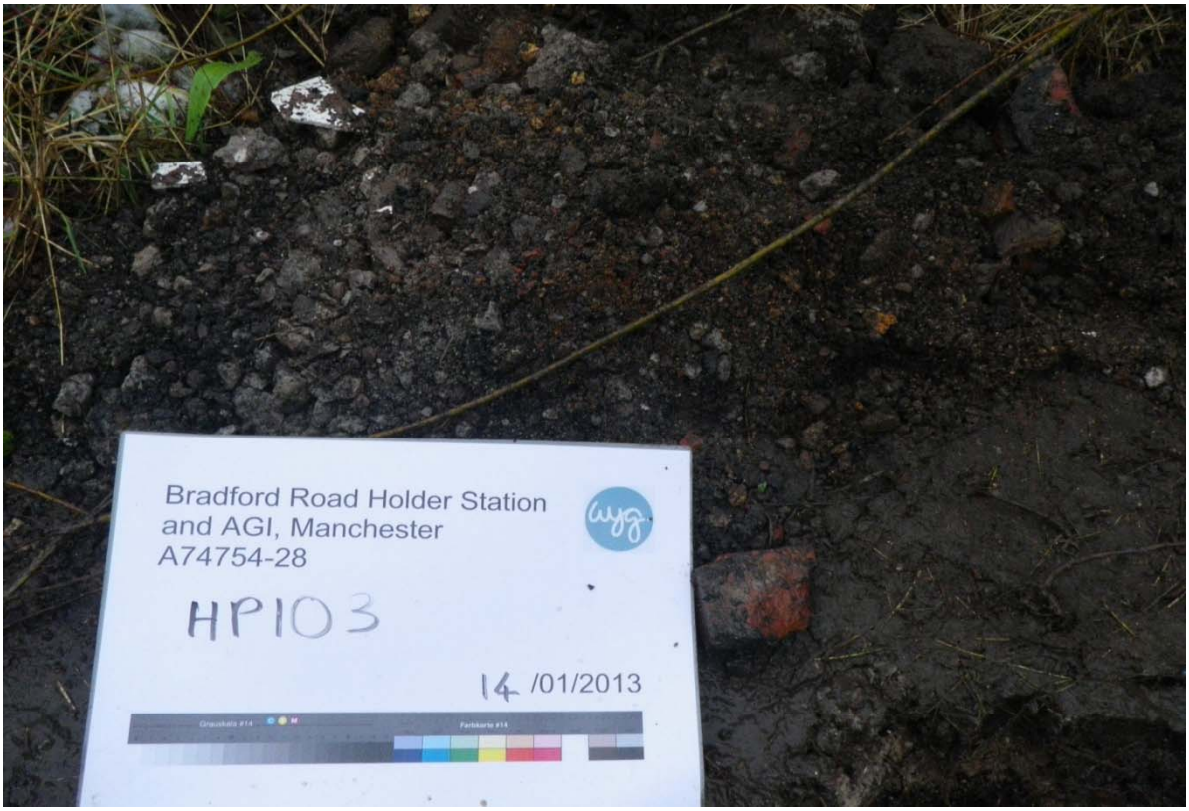
Environmental Consultancy
Ground Technologies & Investigation

Project :-
Bradford Road, Manchester

Trial Pit Photographs – NGG2

Client:- National Grid Property Holdings Ltd

Project No. :- A074754-28 | **Date :-** April 2013



Photograph No.6: HP103 (Arisings)

Arndale Court
Headingley
Leeds
LS6 2UJ

Tel: 0113 278 7111
Fax: 0113 275 0623
E-mail enviro.leeds@wyg.com

Environmental Consultancy
Ground Technologies & Investigation

Project :-
Bradford Road, Manchester

Trial Pit Photographs – NGG2

Client:- National Grid Property Holdings Ltd

Project No. :- A074754-28 | **Date :-** April 2013



Photograph No.7: TP102



Photograph No.8: TP102 (Arisings)

Arndale Court
Headingley
Leeds
LS6 2UJ

Tel: 0113 278 7111
Fax: 0113 275 0623
E-mail enviro.leeds@wyg.com

Environmental Consultancy
Ground Technologies & Investigation

Project :-
Bradford Road, Manchester

Trial Pit Photographs – NGG2

Client:- National Grid Property Holdings Ltd

Project No. :- A074754-28 | **Date :-** April 2013



Photograph No.9: TP103



Photograph No.10: TP103A

Arndale Court
Headingley
Leeds
LS6 2UJ

Tel: 0113 278 7111
Fax: 0113 275 0623
E-mail enviro.leeds@wyg.com

Environmental Consultancy
Ground Technologies & Investigation

Project :-
Bradford Road, Manchester

Trial Pit Photographs – NGG2

Client:- National Grid Property Holdings Ltd

Project No. :- A074754-28 | **Date :-** April 2013



Photograph No.11: TP104



Photograph No.12: TP104 (Arisings)

Arndale Court
Headingley
Leeds
LS6 2UJ

Tel: 0113 278 7111
Fax: 0113 275 0623
E-mail enviro.leeds@wyg.com

Environmental Consultancy
Ground Technologies & Investigation

Project :-
Bradford Road, Manchester

Trial Pit Photographs – NGG2

Client:- National Grid Property Holdings Ltd

Project No. :- A074754-28 | **Date :-** April 2013



Photograph No.13: TP105



Photograph No.14: TP105 (Arisings)

Arndale Court
Headingley
Leeds
LS6 2UJ

Tel: 0113 278 7111
Fax: 0113 275 0623
E-mail enviro.leeds@wyg.com

Environmental Consultancy
Ground Technologies & Investigation

Project :-
Bradford Road, Manchester

Trial Pit Photographs – NGG2

Client:- National Grid Property Holdings Ltd

Project No. :- A074754-28 | **Date :-** April 2013

Appendix G5 – Site Diaries

WYG Environment Planning Transport
Daily Site Diary

* WRITTEN 10/01/13

Project:	BRADFORD ROAD, MANCHESTER	Project Number:	A74754-28
Date:	09/01/13 *	Contractors on site:	DYNAMK SAMPLINS
Client:	NSPH	Site Supervisor:	REBECCA POOL (RP)
Weather Conditions and Approximate Temperature (°C):	AM - MOSTLY + COLD, PM OVERCAST		
Visitors to Site:	TONY ASHTON - A.E.		HIGH 4°C
Numbers of Non WYG workers on site:	2 - JOE TAYLOR + OWEN MAYCROFT		
Work Progress Rate: *Delete as Applicable	1ST DAY.	On Programme / Behind Programme / Suspended	

Time	Work In Progress and Site Incidents
8:00	RP TO SITE.
8:30	STEPHEN MARMOND (SM) AND A-PLANT ACCO. TO SITE.
	SM INDUCTED.
8:45	DRILLERS TO SITE (JT + OM).. SM TAKING DELIVERIES
	WHILE DRILLERS INDUCTED.
9:15	TONY ASHTON TO SITE, COMPLETE PERMIT, SIGN ON, TONY OFF SITE.
	10:30.
10:00	DRILLERS SETTING UP.
12:30	COMMENCES DRILLING
16:00-14:45	RODS STUCK - LODGED IN STIFF BOULDER CLAY
15:00	RODS UNSTUCK, RP + JT SAY OK TO OPEN HOLE (O/H).
15:60	DRILLING COMPLETE FOR DAY AT 12M ± IN BOULDER CLAY.
	CONSIDERED AT THE TIME TO BE IN THE SANDSTONE BUT
	WAS A LIKELY BOULDER.
16:45	ALL OFF SITE, SITE SECURE.

Instruction Given (Please include Verbal/Written and who Issued)

Plant and Equipment Details: *Transfer as applicable	Item	Supplier
DELIVERIES:- A PLANT - WELFARE UNIT, STORE, P/WASH BOWSER,	BACKACTER + P.P.	
MSS - PIPES + PALLET.	TRAILS PERKINS - AGGS, TARP, ETC.	
SUPPLY UK - STAND PIPE.		
RIG = COMACHIO 205,	COMPAIR COMPRESSOR.	

Site Close Down Checks	
I declare the site has been checked and left in a safe condition and access/egress routes left secure:	
Name: REBECCA POOL	Signed:
Note: Extra consideration should be given for works on any rail site to prevent unauthorised access/trespass	

WYG Environment Planning Transport
Daily Site Diary

Project: A74754-28	Project Number: BRADFORD ROAD, MANCHESTER
Date: 10/01/13	Contractors on site: DYNAMIC SAMPLING, CLIVE HURST
Client: NCPH	Site Supervisor: R. POOL
Weather Conditions and Approximate Temperature (°C): AM - MISTY, PM CLEARING. COLD TO COOL	
Visitors to Site:	
Numbers of Non WYG workers on site: 3 - JOE TAYLOR, JONATHAN NEWBY (CDS), STEVE WOOD (CHPH)	
Work Progress Rate: *Delete as Applicable	On Programme / Behind Programme / Suspended

Time	Work In Progress and Site Incidents
8:00	RP, JT + JA TO SITE.
8:10	STEVE WOOD (SW) TO SITE. SW + JN INDUCTED.
8:20	SM TO SITE
8:30	DRILLING COMMENCES. RP + SW TO BUILD RAMP OVER HP MAIN.
	DRILLERS FILL BOWSER, SM + RP START ~~AFFAIRS~~ TO DISCUSS CORE LOGGING. THE 4 MEASUREMENT REQ'D CONVERSION (TCR, ETC), BS5730 + AMENDMENTS PASSED TO SM TO READ (TA2:2010 LEFT IN OFFICE). ⊛
9:05	RP + SW TO BREAK OUT TP105 LOG 'N. SM + RP CONTINUE TO DISCUSS CORE LOGGING.
10:30	RP + SW TO TP106 - CONCRETE AT 0.6 8m FROM HP MAIN.
	RP TO KINS BACK ROYALES TO CHECK OK TO BREAK OUT - MOVE TO TP105 MEANWHILE.
10:50	RP TO KINS OFFICE TO CHECK STRATA. TB SAYS M.ST.
12:15	ICR OK WITH BREAKING OUT - TP105 BROKEN OUT + COMPLETED.
13:30	LUNCH. PACKING SAMPLES.
14:00	TP101 EXCAVATED, SW OFFSITE 15:00.
15:20	SAMPLES COLLECTED.
16:00	DRILLERS STOP CORING ~~AND~~ PACK UP (STOP LINES FREEZING)
17:00	DRILLERS + SM + RP OFF SITE.
	⊛ 8:30 - 9:05 CORE RETRACTED IS BOULDER CLAY, JT TOLD OK TO OH TO ROCK.

Instruction Given (Please include Verbal/Written and who Issued)
RP TO SW IF SW ON 15th FOR 2nd TP DAY TO MEET AT MAIN SITE.
K

Plant and Equipment Details: *Transfer as applicable	Item	Supplier
DELIVERIES - SKIPS		
COLLECTIONS - 1 CORE BOX (TP101, TP104, TP105, RBH101).		

Site Close Down Checks

I declare the site has been checked and left in a safe condition and access/egress routes left secure:

Name: REBECCA POOL Signed:

Note: Extra consideration should be given for works on any rail site to prevent unauthorised access/trespass

WYG Environment Planning Transport
Daily Site Diary

Project: BRADFORD ROAD, MANCHESTER	Project Number: A74754-28
Date: 4/01/13	Contractors on site: DYNAMIC SAMPLING, EARTH ENGINEERING
Client: NGET	Site Supervisor: R. POOL
Weather Conditions and Approximate Temperature (°C): COLD (-1°C LOW), CLOUDY/OVERCAST, SHOWERS IN MORNING.	
Visitors to Site: ALAN WOODS (RSK).	
Numbers of Non WYG workers on site: 4 – JOE TAYLOR, JON NEWBY (DS), OLIVER ROBERTS, CAHN CLAY (ES).	
Work Progress Rate: *Delete as Applicable TP → On Programme / Behind Programme	Suspended

Time	Work In Progress and Site Incidents
8:00	RP, DRILLERS + VAC EX TO SITE. VAC EX INDUCTED
8:10	SM TO SITE. DRILLERS SETTING UP.
8:30	VAC EX TO FILL BOWSER, DRILLING COMMENCED – 0H.
8:50	VAC EX RETURN FROM BOWSER FILLING, + JN DOES TO FILL BOWSER.
8:30 – 9.00	RP + SM DISCUSS CORE – TO CHECK SM LOG BUT CORE ALREADY SAMPLED BY SM + CAMERA SCREEN TOO SMALL TO SEE DETAIL.
9:00 – 10:15	VAC EX BH101 + BH101A, THEN REFILL BOWSER (VE).
10:45	VE BOWSER FULL, VAC EX TP103 + TP103A. SHOWN TP102.
11:50	VE BOWSER REFILL THEN VE BREAK UNTIL 13:00 RP TO SEE DRILLERS + SM WITH A. WOODS.
12:00	RBH101 COMPLETE AT 30.0m, AND INSTALLATION UNDERTAKEN.
12:50	DRILLERS LUNCH. RP MARK OUT BH101B.
13:00	RP LUNCH WHILE V.EX TO TP102 TO START. RP ALSO PACK SAMPLES.
13:15	RP TO V.EX – HOLE FLOODED, MOVE TO BH101B. JT + JN RE-COMMENCE DRILLING / PULL CASING + BAG SPOIL.
16:00	FIND CONCRETE in BH101B – NOT BOULDERS, SLAB. VE USE OWN BREAKER FOR 45 MINS. GET THROUGH CONCRETE, THEN KICKS THEN MORE CONCRETE. RP DECIDES TO STOP. V.E TEAM TIDY + BACKFILL. FLOOR IS LIKELY OF RETAIL HOUSE. NOT LIKELY PENETRATE.
15:30	VAC EX TEAM OFF SITE. RIG MOVED TO POSITION ON BH102.
15:40	MOVING COMPRESSOR + TRAILER TO MAIN (NICER PARKING) SITE.
15:50	DRILLERS OFF SITE.

Instruction Given (Please include Verbal/Written and who Issued)
16:00 RP + SM PHOTO TPs / VAC EX PITS + RE-SECURE SITE. (*)
16:45 ALL OFF SITE.
(*) GARY CRATE RUNS 16:20 FOR ACCESS MONDAY – MESSAGE LEFT.

Plant and Equipment Details: *Transfer as applicable	Item	Supplier
ON 16th EARTH ENGINEERING TO HAND PIT ONLY – NO V.E. KIT.		

Site Close Down Checks	
I declare the site has been checked and left in a safe condition and access/egress routes left secure:	
Name: REBECCA POOL	Signed:

Note: Extra consideration should be given for works on any rail site to prevent unauthorised access/trespass

ALAN WOODS (RSK) ON SITE 12:50 → OFF SITE 12:10 BRIEF INDUCTION GIVEN AND TOUR OF SITE.

WYG Group
Daily Site Diary

Project: BRADFORD ROAD, MANCHESTER	Project Number: A74704-28
Date: 14/1/13	Contractors on site: DYNAMIC SAMPLING + EARTH ENGINEERS
Client: NAPH	Site Supervisor: R. POOL
Weather Conditions and Approximate Temperature (°C): 0°C, FOG AM EARLY, OVERCAST / SHOWERS / SUNNY SPELLS / LIGHT BREEZE	
Visitors to Site:	
Numbers of Non WYG workers on site: 4 - JOE TAYLOR, JON NEWBY (DS); OLIVER ROBERTS + CAMERON (EE)	
Work Progress Rate: *Delete as Applicable	On Programme / Behind Programme / Suspended

Time	Work In Progress and Site Incidents
8:30	RP TO SITE - LATE, ALL OTHERS WAITING.
8:30 - 9:10	DRILLERS COLLECTING EQUIPMENT + SETTING UP THEN 2 HOSES BREAK AT BH102.
	OR, SC + RP to BH102 (ALT) RENAMED HP103. BREAKING OUT AT SURFACE.
9:45	DRILLERS LEAVE SITE FOR REPLACEMENT HOSES.
10:10	RP + OR + SC FINISH HP103, GO TO HP101.
10:40	DRILLERS RETURN TO SITE WITH HOSES + ATTEMPT REPAIR. 1 HOSE FAULTY CONNECTOR, ENGINEER CALLED.
11:10	HOSE REPAIR MECHANIC TO SITE + ESCORTED BY SM PIPES TO RIG.
11:30	MECHANIC OFFSITE. RP, OR + SC TO HP102 (WAS TP BUT TOO MANY SERVICES IN AREA). DRILLING STARTED, BH102.
12:30	HP102 COMPLETE - RP TO SEE DRILLERS + SM AT BH102, GOOD PROGRESS, ALL OK. RP + VAC EX LUNCH UNTIL 1PM.
13:00	RP + VAC EX TO S. SITE. HP101S CAT SCANNED + EXCAVATED.
13:30	DRILLERS BREAKING RP FOR INST DETAIL.
14:00	HP102S CAT SCANNED + EXCAVATION COMMENCED.
14:40	BH102 COMPLETED DRILLING, INSTALLATION UNDERTAKEN + RIG CLEANED.
15:15	HP102S EXCAVATION COMPLETE, RP SECURES S. SITE. OR, SC + RP TO N. SITE.
15:30	VAC EX (OR + SC) OFFSITE. JT + JN MOB TO RBH102. LANDROVER STUCK IN SOFT GROUND TOWING COMPRESSOR. RIG TOWS LANDROVER + COMPRESSOR OUT + THROWS TREAD ON TREESTUMP. TREAD REPLACED + RIG SET UP OVER RBH102.
17:30	SITE + EQUIPMENT SECURED. ALL OFFSITE.

Instruction Given (Please include verbal/written and who Issued)

Plant and Equipment Details: * Transfer as applicable	Item	Supplier
2 COOL BOXES COLLECTED		

Site Close Down Checks

I declare the site has been checked and left in a safe condition and access/egress routes left secure:

Name: R POOL Signed:

Note: Extra consideration should be given for works on any rail site to prevent unauthorised access/trespass

WYG Group
Daily Site Diary

Project:	BRADFORD ROAD, MANCHESTER	Project Number:	A74754-28
Date:	15/01/13	Contractors on site:	DYNAMIC SAMPLING
Client:	NSPH	Site Supervisor:	REBECCA POOL
Weather Conditions and Approximate Temperature (°C):	4°C, FOG AM TO OVERCAST TO SUNNY PM, LIGHT BREEZE.		
Visitors to Site:	KATHERINE BLAKELY + PAUL HAMER (WYG) – AUDIT H+S. JOHN APPLEBY – NOAE/PERMIT		
Numbers of Non WYG workers on site:	3 – JOE TAYLOR (TP), JONATHAN NEWBY (DS), STEVE WOOD (CH).		
Work Progress Rate: *Delete as Applicable	On Programme / ~~Behind Programme~~ (RG)		Suspended

8:30	RP TO SITE, DRILLERS + SW WAITING. STEVE MARWOOD TO SITE.
8:00–8:20	DRILLERS SET UP AT RKSH102 WITH PERMIT. SM OK WITH TAKING 'EXTRA' SAMPLE + STONE SAMPLES. RP COLLECTS ALL TP EQUIPMENT + HGT + SW TO SOUTH SITE.
8:20	DRILLERS START HP, RP + SW DISCUSS ACCESS RAMP – OK FOR JCB TIRES W/O SCRAPING. PROCEED TO TAR TANK AREA. COMMENCE SCAN OF SERVICES FOR TP104S (TP106S ON PLANS).
8:50	KB RINGS, RP TELLS SW TO WAIT + RETURNS TO NORTH/MAIN SITE. KB INDUCTED. KB SAYS SHE IS BEING AUDITED + HER AUDITOR INCOMING. RP WAITS TO INDUCT AUDITOR (PAUL HAMER) + COMPLETES SCHEDULE. KB INVITED TO TP ON S SITE BUT DECLINES.
9:30	PH INDUCTED + KB + PH ONTO SITE WITH RP, INTRODUCED TO STEVE M. SM + RP DISCUSS CORING + IF SM NEEDS ANYTHING TO RING.
10:00	RP BACK TO S. SITE – COMPLETE SCANNING TP104S + COMPLETE
11:00	RP + SW RELOCATE TO TP102S, AND COMMENCE DIGGING TRENCH.
11:35	DRILLERS START OH AT ON REFUSAL OF DS. RP + SW TO TP02SA (N), NO TAR TANK WALL SO MOVE TO TP102SB (S).
~~11:40~~	~~DRILLERS + SM~~ PH + KB OFF SITE – KB SAYS TO ASK DRILLERS FOR DAILY CHECK SHEETS.
12:25	DRILLERS + SM SUSPECT BEDROCK – SPT, + CORE SET UP COMMENCE. RP + S TO TP 102SC.
13:15	DRILLERS LUNCH. RP + SW TO TP103S/102SD.
13:45	CORING STARTED, FOR 1HR – RETURNS BOULDER CLAY RECOMMENCE OH.
14:00	RP LUNCH, COMPLETED TP103S, TAR POCKETS AT=3.3m bgl.
14:30	RP + SW TO TP101S, COMPLETED IN 1HR, OFF HIRE SW + RP BACK TO SITE.
15:20	DRILLERS CORING AGAIN, 14.50 – 16.50m TO COMPLETE 16/1/13.
(+)	CLIVE HURT PLANT HIRE – JCB ONLY, NO BREAKER.
(*)	DRILLERS COMPLETE HAND PIT, START DRILLING 9:45
16:00	JOHN APPLEBY TO SITE TO EXTEND PERMIT, 16:30 RP PARKS SAMPLES.
17:00	ALL OFF SITE.

1 COOL BOX COLLECTED.		
NO DELIVERIES.		

I declare the site has been checked and left in a safe condition and access/egress routes left secure:

Name: REBECCA POOL	Signed:

Note: Extra consideration should be given for works on any rail site to prevent unauthorised access/trespass

WYG Group
Daily Site Diary

Project:	BRADFORD ROAD, MANCHESTER	Project Number:	A74754 – 28
Date:	16/01/13	Contractors on site:	DYNAMIC SAMPLING
Client:	NGPH	Site Supervisor:	REBECCA POOL
Weather Conditions and Approximate Temperature (°C):	0°C, OVERCAST / SUNNY, LIGHT BREEZE FOR AM.		
Visitors to Site:	JONATHAN BOYES (WYG)		
Numbers of Non WYG workers on site:	2 – JOE TAYLOR, JONATHAN NEWBY		
Work Progress Rate: *Delete as Applicable	On Programme	~~Behind Programme~~	Suspended

Time	Work In Progress and Site Incidents
8:00	RP ARRIVES, DRILLERS WAITING.
8:00 → 9:30	DEFROST RIG. RP RINGS OFFICE THEN COAL AUTHORITY RE: CHANGE OF FLUSH TO AIR MIST. LETTA AGREES (EA) TO CHANGE TO PERMIT FOR SOUTH SITE TO AIR MIST. ANDY PRISTLEY EMAILS CONFIRMATION ON RP BEHALF.
9:30 → 10:00	COLLECTION WATER BY DRILLERS.] RP COUNTS SCHEDULED
10:00 → 12:00	CORING. TESTS, RINGS LAB TO MATCH OF ADDITIONAL TESTING – TO PLACE EXTRA SCHEDULE IN COOL BOX.
12:00 → 12:30	DRILLERS BREAK WHILE RIG CORING, NEXT TO RIG. RP COMMENCE CUTTING CORE LINER + PHOTOING, NEXT TO RIG.
12:30 → 15:00	CORING + CORE PHOTOGRAPHY.
13:00 ←	JONATHAN BOYES ARRIVES – INDUCTED.
13:20	JONATHAN + RP TOUR SOUTH OF HOLDER SITE AND SEE CORE (14.5 – 17.00 CUT OPEN, 17.00 – 18.50 JUST PUT IN BOX)
13:50 → 14:20	JB + RP TO SOUTH SITE. DISCUSS NO TAR TANK WALLS, ALSO NOT FOUND CULVERT BUT FOUND TAR POCKETS TP103S + SPENT LIME TP101S.
14:20 → 15:00	TOUR NORTH OF HOLDER SITE, DISCUSS WAC TESTING – RP TO SCHEDULE EXTRA TOC IF UNSUFFICIENT / MISSING SAMPLES FOR WAC.
15:30	JB OFF SITE.
15:20 → 16:20	RP PHOTO REST OF CORE + LOG + SAMPLE 14.5 – 17.00m PRE EVENING FREEZE. DRILLERS CORE UNTIL 16:00 THEN COLLECT WATER + SHUT DOWN RIG + TIDY.
17:00	ALL OFF SITE.

Instruction Given (Please include Verbal/Written and who Issued)

Plant and Equipment Details: * Transfer as applicable	Item	Supplier
1 x COOL BOX COLLECTED		
NO DELIVERIES.		

Site Close Down Checks

I declare the site has been checked and left in a safe condition and access/egress routes left secure:

Name: REBECCA POOL	Signed:

Note: Extra consideration should be given for works on any rail site to prevent unauthorised access/trespass

WYG Group
Daily Site Diary

Project:	BRADFORD ROAD, MANCHESTER	Project Number:	A76754-28
Date:	17/01/13	Contractors on site:	DYNAMIC SAMPLING
Client:	NGPH	Site Supervisor:	REBECCA POOL
Weather Conditions and Approximate Temperature (°C):	-1°C, OVERCAST, LIGHT BREEZE.		
Visitors to Site:	NOT VISITING WYG; NG AND CAGLLION IN HOLDER COMPOUND MEASURING PIPE. NETWORK RAIL ON VIADUCT LOOKING AT WALL		
Numbers of Non WYG workers on site:	2 - JOE TAYLOR, JONATHAN NEWBY		
Work Progress Rate: *Delete as Applicable		On Programme / Behind Programme / Suspended	

Time	Work In Progress and Site Incidents
8:00	RP + DRILLERS ARRIVE.
→ 9:00	DEFROSTING RIG.
9:00 → 12:30	CORING 20.00 – 22.5m, RP LOGGING CORE. Drillers Break watching rig.
12:30 → 13:30	OH TO 24.5 m based on core above 21.00m, core recovery on opening 21 – 22.5m less good.
13:30 → 14:30	INSTALLING RBH102, PLACING HEADWORKS RBH101 + BH102. CLEANING RIG + TIDYING AREA.
14:30 → 15:45	PLACING HEADWORKS TO RBH102, LOADING RIG / KIT READY TO MOVE.
15:45 → 16:15	MOVE RIG TO S. SITE, SECURE BACK GATE.
16:15 → 16:45	RETURN TO N. SITE, SECURE SITE / KIT.
16:45	ALL OFF SITE.

Instruction Given (Please include Verbal/Written and who Issued)	
8:00-9:00	RP rings: GARY CRATE, COLLECTION FROM JAMES FOR TOMORROW + DELIVERY OF POTS.

Plant and Equipment Details: * Transfer as applicable	Item	Supplier
COLLECTION OF SEISMOGRAPH BY COURIER (MAIL BOX) = 9:30 - 10:00AM.		
NO DELIVERIES.		

Site Close Down Checks

I declare the site has been checked and left in a safe condition and access/egress routes left secure:

Name: REBECCA POOL	Signed:

Note: Extra consideration should be given for works on any rail site to prevent unauthorised access/trespass

WYG Environment Planning Transport
Daily Site Diary

Project: BRADFORD ROAD MANCHESTER	Project Number: A74754-28
Date: 18/1/13	Contractors on site: DYNAMIC SAMPLING
Client: NGPH	Site Supervisor: K. POOL
Weather Conditions and Approximate Temperature (°C): -2°C (wind chill), snowing.	
Visitors to Site:	
Numbers of Non WYG workers on site: 2 - JOE TAYLOR + STUART CRAWFORD	
Work Progress Rate: *Delete as Applicable	On Programme / ~~Behind Programme~~ / Suspended

Time	Work In Progress and Site Incidents
8:00	ALL TO SITE. SC INDUCTED.
8:00 → 9:00	COLLECT EQUIPMENT FROM N. SITE & PROCEED TO S. SITE.
9:00 → 9:30	SETTING UP ON TP104S & END ON BH101S.
9:30 → 10:30	OH THROUGH TP104S TO 3m bgl.
10:30 → 12:00	WINDOW SAMPLE TO 6.3 m bgl + REFUSE ON OLD CONCRETE. SLIGHT CONTAM ONLY, NO BRICK 'FLOOR' AS MENTIONED IN OLD REPORT.
12:00 → 13:00	INSTALL BH101S + RELOCATE TO RBH102S.
13:00	COMMENCE OH THROUGH TP102SC TO 3m bgl.
13:30	COMMENCE WINDOW SAMPLING - CONTAM (TAR) FROM 4.5m bgl CROSS FROM 5.7m TO 8.0m bgl. REFUSAL AT 8.00 m bgl.
14:45	INSTALL CABINS + CABINS HEAD TO BH READY FOR MONDAY.
15:00	LOAD RIG + COMPRESSOR + TAKE TO MAIN MILES PLATTING I/BR. SITE FOR WEEKEND. THEN TO BR. N SITE.
15:30	ALL OFF SITE (RLP DENTISTS).

Instruction Given (Please include Verbal/Written and who Issued)

Plant and Equipment Details: * Transfer as applicable	Item	Supplier
1 BOX OF POTS + EMPTY COOL	BOX DELIVERED.	
NO COLLECTIONS (SAMPLES FROZEN ANYWAY, SNOW	COURIER)	DELAYED

Site Close Down Checks

I declare the site has been checked and left in a safe condition and access/egress routes left secure:

Name: REBECCA POOL Signed:

Note: Extra consideration should be given for works on any rail site to prevent unauthorised access/trespass

WYG Environment Planning Transport
Daily Site Diary

Project: BRADFORD ROAD, MANCHESTER	Project Number: A76756-28
Date: 21/01/13	Contractors on site: DYNAMIC SAMPLING
Client: NCPH	Site Supervisor: R. POOL
Weather Conditions and Approximate Temperature (°C): SNOW / BLIZZARD, -1 °C HIGH, HIGH	
Visitors to Site: NONE ROADS BLOCKED/CLOSED	
Numbers of Non WYG workers on site: 2 – JOE TAYLOR, JON NEWBY	
Work Progress Rate: *Delete as Applicable	On Programme / Behind Programme / Suspended

Time	Work In Progress and Site Incidents
8:00	JOE ARRIVES + WAITS
8:30	JON ARRIVES + WAITS
9:10	RP ARRIVES.
9:20	COMMENCE WORK – RELOCATE FROM RBH102S – STOPPED ON UNKNOWN FEATURE, POSS. CULVERT OR CAL PLANT BASE/FOUNDATION? RP LOOKED AT CANAL + RIVER SW OF SITE, PHOTOS TAKEN. COULD BE CULVERT WITH WOOD + CONCRETE AT 8m DOWN. PHONE JB – HE FAVOURS ATTEMPTING BH102S OVER NEW LOCATION RBH103S
10:30	DRILLERS RELOCATE TO BH103S AS ALREADY PLANNED / PERMITTED. RBH102S INSTALLED IN MS / AS BH102S WOULD HAVE BEEN.
11:00	RP ORDERS MORE PLAIN PIPE FROM MSS, FOR DEL. TOMORROW. ROCK DEEPER THAN ALLOWED IN PROPOSAL, AT 17m BGL IN N. SITE.
15:00	BH103S DRILLED, INSTALLED AND MOVE TO BH102S. AT BH102S OH THROUGH TD. THEN SAMPLING FROM 3.0m BGL. FEATURE FOUND AT ≃ 7.0M BGL . . TO RELOCATE TO RBH103S. BH102S NOT TO BE INSTALLED, TO BE BACKFILLED 22/01/13, RIG LEFT OVER HOLE.
16:45	SITE SECURED, ALL OFF SITE 16:45

Instruction Given (Please include Verbal/Written and who Issued)

Plant and Equipment Details: *Transfer as applicable	Item	Supplier
NO COLLECTIONS OR DELIVERIES		

Site Close Down Checks

I declare the site has been checked and left in a safe condition and access/egress routes left secure:

Name: R POOL Signed:

Note: Extra consideration should be given for works on any rail site to prevent unauthorised access/trespass

WYG Environment Planning Transport
Daily Site Diary

Project: BRADFORD ROAD, MANCHESTER	Project Number: A76754_28
Date: 22/01/13	Contractors on site: DYNAMIC SAMPLING
Client: NGPH	Site Supervisor: R. POOL
Weather Conditions and Approximate Temperature (°C): SNOW + HAIL SHOWERS, -2°C HIGH, SUNNY SPELLS	
Visitors to Site: NONE	
Numbers of Non WYG workers on site: 2 x - JOE TAYLOR, JOHN NEWBY	
Work Progress Rate: *Delete as Applicable	On Programme / Behind Programme / Suspended

Time	Work In Progress and Site Incidents
8:10	ALL ON SITE.
	BACKFILL BH1025, RELOCATE TO RBH1035.
	OH THROUGH 1.5m HAND AT, TO 3m bgl (BASE OF MG).
	SAMPLE FROM 3.0m bgl THROUGH SUPERFICIAL TO ~~STONE~~
	DENSE SAND - OH THROUGH SAND TO S.STONE.
	CORE 7m. NO EVIDENCE CONTAM, + INDICATIVE
	FRACTURE STATE OBTAINED. : OH TO 25m.
15:45	INSTALL RBH1035 AND SPRAY DOWN MG. READY TO
	RELOCATE TO RBH1015 AND TIDY ON 23rd.
17:30	ALL OFF SITE.
*	BOX 1 of RBH1035 BADLY LOGGED - REWRITE *

Instruction Given (Please include Verbal/Written and who Issued)

Plant and Equipment Details: *Transfer as applicable	Item	Supplier
DELIVERY - MG5 12 x 3m PLAIN	PIPE 14:30	
COLLECTIONS - 1 COOL BOX (15:45)		
- WELFARE UNIT (15:15)		

Site Close Down Checks	
I declare the site has been checked and left in a safe condition and access/egress routes left secure:	
Name:	Signed:
Note: Extra consideration should be given for works on any rail site to prevent unauthorised access/trespass	

WYG Environment Planning Transport
Daily Site Diary

Project: BRADFORD ROAD, MANCHESTER	Project Number: A74754-28
Date: 23/01/13	Contractors on site: DYNAMIC SAMPLING
Client: ASPIA	Site Supervisor: R. POOL
Weather Conditions and Approximate Temperature (°C): DRY, OVERCAST, -3°C, WINDY, OCC. SUNNY SPELLS.	
Visitors to Site: JOHN APPLEBY	
Numbers of Non WYG workers on site: 2 - JON NEWBY, JOE TAYLOR	
Work Progress Rate: *Delete as Applicable	On Programme / Behind Programme / Suspended

Time	Work In Progress and Site Incidents
8:00	DRILLERS TO SITE
8:20	RP TO SITE (BAD TRAFFIC).
	MEET AT CARPARK 3 NR ASS, SHOW JOE RBH103 LOC(N) + ISSUE PERMIT.
	HAND PIT TO 1.5m bgl AND GO TO FILL BOWSER.
	SAMPLE THEN CORE INTO ROCK - NO OH AT TOP OF HOLE
	CORE 7m INTO ROCK. AS RBH103 NO CONTAMINATION AND INDICATIVE FRACTURE STATE : OH TO 15m INTO ROCK (FURTHER 8m).
14:30	JA TO SITE TO CENTEN PERMIT AND AUDIT PERMIT/ GENERAL SITE.
15:00	JA OFF SITE. DRILLERS TO INSTALL WELL, AND SPRAY DOWN RIG. TIDY ARISINGS AND CONCRETE S. SITE COVERS. RP FINISH LOGGING RBH103 SO CORE BOXES CAN BE USED FOR RBH101S. (NO CORE BOXES POSSIBLE TO BRING FROM WYG DUE TO VAN SPACE / RESOURCING & 3no. BROUGHT FROM B.S.)
17:00	COMPRESSOR TO N. SITE, S. SITE CLEAR + TIDY + ALL OFF SITE.

Instruction Given (Please include Verbal/Written and who Issued)

OFFHIRED: BOWSER/PRESSURE WASHER, PID, BREAKER

COLLECTED: STAND PIPE

STORE TO REMAIN - FULL SKIPS TO REMAIN PENDING ANALYSIS

Plant and Equipment Details: *Transfer as applicable	Item	Supplier
RESULTS AND GW MONITORING ROUND 1.		

Site Close Down Checks

I declare the site has been checked and left in a safe condition and access/egress routes left secure:

Name: R. POOL	Signed:

Note: Extra consideration should be given for works on any rail site to prevent unauthorised access/trespass

WYG Environment Planning Transport
Daily Site Diary

Project: BRADFORD ROAD, MANCHESTER	Project Number: A74754-28
Date: 24/01/13	Contractors on site: NONE WORKING
Client: NSPH	Site Supervisor: R. POOL
Weather Conditions and Approximate Temperature (°C): -4°C - 0°C, SLEET / OVERCAST	
Visitors to Site: TONY PARKER, DYNAMIC SAMPLING	
Numbers of Non WYG workers on site: 1, NOT WORKING - COLLECTION ONLY - TONY PARKER	
Work Progress Rate: *Delete as Applicable	On Programme / ~~Behind Programme~~ / ~~Suspended~~

Time	Work In Progress and Site Incidents
8:00	RP + TP TO SITE.
8:10	RP PACKS VAN WITH GEOTECH SAMPLES. TONY HITCHES COMPRESSOR.
8:30	TP OFF SITE.
8:45	RP TIDYS RUBBISH INTO SKIPS.
9:00	BOXES PUT IN VAN + NOTES.
9:30	RP OFF SITE, TO LEEDS OFFICE " "
11:00	RP INTO OFFICE, PACKAGE PID, UNPACK SAMPLES.

Instruction Given (Please include Verbal/Written and who Issued)

Plant and Equipment Details: *Transfer as applicable	Item	Supplier
COMPRESSOR COLLECTED - SITE		
PID COLLECTED - OFFICE		

Site Close Down Checks

I declare the site has been checked and left in a safe condition and access/egress routes left secure:

Name: R. POOL	Signed:

Note: Extra consideration should be given for works on any rail site to prevent unauthorised access/trespass

WYG Environment Planning Transport
Daily Site Diary

Project: BRADFORD ROAD, MANCHESTER	Project Number: A76752-28
Date: 25/01/13	Contractors on site: NONE WORKING
Client: NSPH	Site Supervisor: R POOL
Weather Conditions and Approximate Temperature (°C): -5°C, WINDY, OVERCAST, SNOW FLURRIES	
Visitors to Site: CAVIN CLAY, EARTH ENGINEERING	
Numbers of Non WYG workers on site: 1, COLLECTION / PACKING ONLY.	
Work Progress Rate: *Delete as Applicable	~~On Programme~~ ~~Behind Programme~~ ~~Suspended~~

Time	Work In Progress and Site Incidents
7:50	RP TO SITE.
8:00	RP ATTEMPTS TO SPLIT LINERS – SHATTERING.
9:00	SC ARRIVES, HELPS SPLIT 2ND LINER. COKE FROZEN.
	〃 〃 BREAKFAST 〃 〃
9:30	PACK BOG BOARDS INTO SC VAN.
10:00	PACK COKE BAGS, 'LIGHT' THINGS (SPILL KIT, ETC.) INTO RP VAN.
10:15	SC OFF SITE.
	RP PACKS SOME BENTONITE PELLETS. INTO VAN.
10:30	RP OFF SITE.
11:45	RP TO A-PLANT – DELIVER CAT & PENNY.
12:00	RP TO GARAGE UNPACK 4x BARRIERS, NETLON, BENTONITE PELLETS.
12:40	RP TO OFFICE UNPACK POTS, VISQUEEN, COKE, SUNDRY EQUIPMENT.
	STILL ON SITE:- 6x BARRIERS, 8x SLOTTED 3M, PLAIN 3M x6, 25x GRAVEL BAGS, 1x SAND BAG, 2x SKIPS, STONE, 6x BENTO.

Instruction Given (Please include Verbal/Written and who Issued)

Plant and Equipment Details: * Transfer as applicable	Item	Supplier

Site Close Down Checks	
I declare the site has been checked and left in a safe condition and access/egress routes left secure:	
Name: R POOL	Signed:

Note: Extra consideration should be given for works on any rail site to prevent unauthorised access/trespass

Appendix G6 – Incident Report

From: Johnston, Keith
Sent: 14 February 2013 15:29
To: Hubbard, Angela; .Box.GroupSecurity; Kennedy, Gus; 'rebecca.pool@uk.ngrid.com'; Marchant, Mike
Cc: .Box.SE.IncidentDesk
Subject: Re: ***** Incident Report No. 342063 for WYG Environment Transport Planning Ltd *****

Angela,

The site is NGG and Mike Marchant is the responsible manager, unless he confirms otherwise.

Regards,

Keith Johnston

From: ANGELA.HUBBARD@uk.ngrid.com [mailto:ANGELA.HUBBARD@uk.ngrid.com]
Sent: Thursday, February 14, 2013 04:09 AM
To: .Box.GroupSecurity; Kennedy, Gus; Johnston, Keith; rebecca.pool@uk.ngrid.com <rebecca.pool@uk.ngrid.com>
Cc: .Box.SE.IncidentDesk
Subject: ***** Incident Report No. 342063 for WYG Environment Transport Planning Ltd *****

This incident requires analysis. Analysis level is **Low**. The IA team leader assigned is **Johnston, Keith** (a different team leader may be selected, if appropriate). The IA team must document the results of the incident analysis through the Safety & Health Services Incident Management System (IMS) by **25 February 2013**. Please contact your local Safety staff for assistance if needed. Click on the link ---> Incident Analysis

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Incident Report

Incident No. 342063

Incident Type Security

INCIDENT INFORMATION

Incident Date/Time:	11 February 2013 18:00 PM	**Date Mgr Notified:**	13 February 2013
Manager Notified:	Keith Johnston	**Reported By:**	Rebecca Pool
# of People Injured:	0	**# of Fatality:**	0
HPI Category:	Unknown	**Process Safety Category:**	Unknown

Incident Location: BRADFORD ROAD, MANCHESTER BRADFORD ROAD MANCHESTER

Responsible Dept: Finance & Shared Services>Finance Director Finance & Shared Servic>Treasury & Tax>Treasury & Tax>Commercial Property>Project Management>Regeneration Project Manager>>>Regeneration Project Manager (50116053)

What Happened: The reporter received an e-mail from a third party informing him that panels of fencing are missing on site causing the site to be unsecure. Action; the reporter will notify their Manager.

EMPLOYEE INFORMATION

Employee Type:	Contractor	**Name:**	, WYG Environment Transport

Employee ID:		**Company:**	Planning Ltd
Job Title:		**Full/Part Time:**	
Work Location:	UK	**Hire Date:**	

MANAGEMENT CONTACTS

Name:	Keith Johnston	**Phone:**	
Name:	Frank W Evans	**Phone:**	
Name:	Nicola A Paton	**Phone:**	

WITNESSES

JOURNAL NOTES

Date	Entered By	Notes

Reminder: It is the Incident Analysis team leader and members responsibility to ensure that this case is updated with any changes.

Appendix G7 – Ground Gas and Groundwater Monitoring Records

WYG ENVIRONMENT

Arndale Court, Headingley, LEEDS, LS6 2UJ
Tel: 0113 278 7111 Fax: 0113 275 0623
Email: enviro.leeds@wyg.com

GROUNDWATER MONITORING RECORD SHEET

Client:	NGPH	**Job No:**	A074754-28	**Instruments Used:**	Interface Probe
Project Name:	Bradford Road, Manchester	**Date:**	06/12/12	**Monitored By:**	RLP
Weather:	Cold, heavy rain, windy	**GA Serial Number:**			

Exploratory Hole No.	Elevation of cover (mAOD)	Peak [1] CH_4 (% vol)	Peak [1] CO_2 (% vol)	Steady [2] CH_4 (% vol)	Steady [2] CO_2 (% vol)	Steady [2] O_2 (% vol)	Steady [2] CO (ppm)	Steady [2] H2S (ppm)	Flow Rate (l/hr)	Atmospheric Pressure (mbar)	NAPL Depth (m bgl)	Water Depth (m bgl)	Base Depth (m bgl)	Water Level (mAOD)	Remarks
[redacted]															
North Site - Holder Station															
BH2	52.233	-	-	-	-	-	-	-	-	-		1.79	6.00	50.44	

WSP 2003 monitoring wells = BH1S, BH2S and BH2

Background Gas Levels:

		CH_4 (%)	CO_2 (%)	O_2 (%)	Atmospheric Pressure (m bar)
11/02/2013	Before Monitoring	0.0	0.1	18.7	1005
	After Monitoring	0.0	0.1	19.3	1005
12/02/2013	Before Monitoring	0.0	0.1	18.7	1019
	After Monitoring	0.0	0.1	19.1	1017

1 The peak reading is the maximum recorded level during a monitoring event.
2 The steady reading is the level which remained constant after approximately 1 minute.
3 Gas tap loose

WYG ENVIRONMENT

Arndale Court, Headingley, LEEDS, LS6 2UJ
Tel: 0113 278 7111 Fax: 0113 275 0623
Email: enviro.leeds@wyg.com

GROUNDWATER MONITORING RECORD SHEET

Client:	NGPH	**Job No:**	A074754-28	**Instruments Used:**	Infra-Red Gas Analyser and Interface Probe
Project Name:	Bradford Road, Manchester	**Date:**	11 &12/02/13	**Monitored By:**	RLP / GF
Weather:	Cold, sleet/ rain/ snow, windy	**GA Serial Number:**			

Exploratory Hole No.	Elevation of cover (mAOD)	Peak [1] CH_4 (% vol)	Peak [1] CO_2 (% vol)	Steady [2] CH_4 (% vol)	Steady [2] CO_2 (% vol)	Steady [2] O_2 (% vol)	Steady [2] CO (ppm)	Steady [2] H2S (ppm)	Flow Rate (l/hr)	Atmospheric Pressure (mbar)	NAPL Depth (m bgl)	Water Depth (m bgl)	Base Depth (m bgl)	Water Level (mAOD)	Remarks
[redacted]															
North Site - Holder Station															
BH2	52.233	0.0	0.2	0.0	0.2	18.5	-	-	0.2	1017		4.41	6.04	47.82	
BH102	52.263	0.0	1.4	0.0	1.3	18.1	-	-	-0.2	1019		1.25	3.02	51.01	
RBH101	54.862	0.0	0.1	0.0	0.1	19.1	-	-	-0.1	1017		16.29	22.62	38.57	
RBH102	52.743	0.0	0.2	0.0	0.1	18.3	-	-	0.0	1017		16.35	18.72	36.39	Very Muddy

WSP 2003 monitoring wells = BH1S, BH2S and BH2

Background Gas Levels:

		CH_4 (%)	CO_2 (%)	O_2 (%)	Atmospheric Pressure (m bar)
11/02/2013	Before Monitoring	0.0	0.1	18.7	1005
	After Monitoring	0.0	0.1	19.3	1005
12/02/2013	Before Monitoring	0.0	0.1	18.7	1019
	After Monitoring	0.0	0.1	19.1	1017

1 The peak reading is the maximum recorded level during a monitoring event.
2 The steady reading is the level which remained constant after approximately 1 minute.
3 Gas tap loose

WYG ENVIRONMENT

Arndale Court, Headingley, LEEDS, LS6 2UJ
Tel: 0113 278 7111 Fax: 0113 275 0623
Email: enviro.leeds@wyg.com

GROUNDWATER MONITORING RECORD SHEET

Client:	NGPH	**Job No:**	A074754-28
Project Name:	Bradford Road, Manchester	**Date:**	06/03/13
Weather:	Drizzle, mild, light breeze	**GA Serial Number:**	

Instruments Used: Infra-Red Gas Analyser, PID and Interface Probe

Monitored By: RLP / GB

Exploratory Hole No.	Elevation of cover (mAOD)	Peak [1] CH_4 (% vol)	Peak [1] CO_2 (% vol)	Steady [2] CH_4 (% vol)	Steady [2] CO_2 (% vol)	Steady [2] O_2 (% vol)	Steady [2] CO (ppm)	Steady [2] H2S (ppm)	Flow Rate (l/hr)	Atmospheric Pressure (mbar)	PID Volatiles (ppm)	Water Depth (m bgl)	Base Depth (m bgl)	Water Level (mAOD)	Remarks
[redacted]															
North Site - Holder Station															
BH2	52.233	0.1	0.1	0.0	0.1	19.6	0	0	-0.2	100	0.2	4.34	6.76	47.89	5
BH102	52.263	0.2	1.5	0.1	1.0	17.5	0	**0**	-0.5	1004	0.2	1.24	3.00	51.02	
RBH101	54.862	0.1	0.1	0.1	0.1	19.7	14	0	0.4	100	0.0	16.32	24.62	38.54	
RBH102	52.743	0.0	0.2	0.0	0.1	18.5	0	0	-0.2	1003	0.0	15.59	21.30	37.15	5

WSP 2003 monitoring wells = BH1S, BH2S and BH2

Background Gas Levels:

		CH_4 (%)	CO_2 (%)	O_2 (%)	Atmospheric Pressure (m bar)
06/03/2013	Before Monitoring	0.0	0.1	19.0	1004
	After Monitoring	0.1	0.0	19.8	1000

1 The peak reading is the maximum recorded level during a monitoring event.
2 The steady reading is the level which remained constant after approximately 1 minute.
3 Gas tap loose
4 Tar traces from 6.99m to 7.56m bgl, and tar coated probe from 7.56m to 7.84m bgl.
5 Intermittent background of 0.1% v/v methane, none detectable by gas alarm.
6 PID concentration corrected for high background concentrations. High background concentrations potentially erroneous due to damp conditions.
7 PID concentration taken from top of water sample pot, not from top of monitoring well.

Appendix G8 – Soil and Soil-Leachate Results

Jones Environmental Laboratory

Unit 3 Deeside Point
Zone 3
Deeside Industrial Park
Deeside
CH5 2UA

Tel: +44 (0) 1244 833780
Fax: +44 (0) 1244 833781

WYG
Arndale Court
Arndale Centre
Otley Road
Leeds
LS6 2UJ

No.4225

Attention :	Jonathan Boyes
Date :	29th January, 2013
Your reference :	A74754-28
Our reference :	Test Report 13/888 Batch 1
Location :	Bradford Road, Manchester
Date samples received :	17th January, 2013
Status :	Final report
Issue :	1

Eleven samples were received for analysis on 17th January, 2013. Please find attached our Test Report which should be read with notes at the end of the report and should include all sections if reproduced. Interpretations and opinions are outside the scope of any accreditation, and all results relate only to samples supplied.
All analysis is carried out on as received samples and reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected.

Compiled By:

Phil Sommerton B.Sc
Project Manager

Bob Millward B.Sc
Principal Chemist

Client Name:

Reference: A

Location: B

Contact: J

JE Job No.: 1

ss jar, T=plastic tub

Please see attached notes for all abbreviations and acronyms

J E Sample No.					35-37			
Sample ID					RBH102			
Depth					0.20			
COC No / misc								
Containers					V J T			
Sample Date	1				15/01/2013			
Sample Type					Soil			
Batch Number					1			
Date of Receipt	1				17/01/2013			

						LOD	Units	Method No.
Arsenic #					-	<0.5	mg/kg	TM30/PM15
Arsenic					12.2	<0.5	mg/kg	TM30/PM62
Cadmium #					-	<0.1	mg/kg	TM30/PM15
Cadmium					0.7	<0.1	mg/kg	TM30/PM62
Chromium #					-	<0.5	mg/kg	TM30/PM15
Chromium					20.3	<0.5	mg/kg	TM30/PM62
Copper #					-	<1	mg/kg	TM30/PM15
Copper					100	<1	mg/kg	TM30/PM62
Lead #					-	<5	mg/kg	TM30/PM15
Lead					160	<5	mg/kg	TM30/PM62
Mercury #					-	<0.1	mg/kg	TM30/PM15
Mercury					0.2	<0.1	mg/kg	TM30/PM62
Nickel #					-	<0.7	mg/kg	TM30/PM15
Nickel					27.3	<0.7	mg/kg	TM30/PM62
Selenium #					-	<1	mg/kg	TM30/PM15
Selenium					1	<1	mg/kg	TM30/PM62
Water Soluble Boron #					-	<0.1	mg/kg	TM74/PM32
Water Soluble Boron					0.9	<0.1	mg/kg	TM74/PM61
Zinc #					-	<5	mg/kg	TM30/PM15
Zinc					170	<5	mg/kg	TM30/PM62
PAH MS								
Naphthalene #					0.08	<0.04	mg/kg	TM4/PM8
Acenaphthylene					0.09	<0.03	mg/kg	TM4/PM8
Acenaphthene #					0.18	<0.05	mg/kg	TM4/PM8
Fluorene #					0.11	<0.04	mg/kg	TM4/PM8
Phenanthrene #					1.26	<0.03	mg/kg	TM4/PM8
Anthracene #					0.33	<0.04	mg/kg	TM4/PM8
Fluoranthene #					2.30	<0.03	mg/kg	TM4/PM8
Pyrene #					2.32	<0.03	mg/kg	TM4/PM8
Benzo(a)anthracene #					1.21	<0.06	mg/kg	TM4/PM8
Chrysene #					1.45	<0.02	mg/kg	TM4/PM8
Benzo(bk)fluoranthene #					2.32	<0.07	mg/kg	TM4/PM8
Benzo(a)pyrene #					1.34	<0.04	mg/kg	TM4/PM8
Indeno(123cd)pyrene #					0.97	<0.04	mg/kg	TM4/PM8
Dibenzo(ah)anthracene #					0.14	<0.04	mg/kg	TM4/PM8
Benzo(ghi)perylene #					0.94	<0.04	mg/kg	TM4/PM8
Coronene					-	<0.04	mg/kg	TM4/PM8
PAH 16 Total					15.0	<0.6	mg/kg	TM4/PM8
PAH 17 Total					-	<0.64	mg/kg	TM4/PM8
Benzo(b)fluoranthene					1.67	<0.05	mg/kg	TM4/PM8
Benzo(k)fluoranthene					0.65	<0.02	mg/kg	TM4/PM8
PAH Surrogate % Recovery					100	<0	%	TM4/PM8

Jones Environment [redacted]

Client Name: [redacted]

Reference: [redacted]

Location: [redacted] lass jar, T=plastic tub

Contact: [redacted]

JE Job No.: [redacted]

Please see attached notes for all abbreviations and acronyms

J E Sample No.	[redacted]	35-37			
Sample ID		RBH102			
Depth		0.20			
COC No / misc					
Containers		V J T			
Sample Date		15/01/2013			
Sample Type		Soil			
Batch Number		1	**LOD**	**Units**	**Method No.**
Date of Receipt		17/01/2013			
Methyl Tertiary Butyl Ether #		<0.002	<0.002	mg/kg	TM15/PM10
Benzene #		0.003	<0.003	mg/kg	TM15/PM10
Toluene #		<0.003	<0.003	mg/kg	TM15/PM10
Ethylbenzene #		<0.003	<0.003	mg/kg	TM15/PM10
p/m-Xylene #		<0.006	<0.006	mg/kg	TM15/PM10
o-Xylene #		<0.003	<0.003	mg/kg	TM15/PM10
Surrogate Recovery Toluene D8		93	<0	%	TM15/PM10
EPH (C8-C40) #		255	<30	mg/kg	TM5/PM8
Mineral Oil (C8-C40)		-	<30	mg/kg	TM5/PM16
TPH CWG					
Aliphatics					
>C5-C6 #		<0.1	<0.1	mg/kg	TM36/PM12
>C6-C8 #		<0.1	<0.1	mg/kg	TM36/PM12
>C8-C10		<0.1	<0.1	mg/kg	TM36/PM12
>C10-C12 #		<0.2	<0.2	mg/kg	TM5/PM16
>C12-C16 #		<4	<4	mg/kg	TM5/PM16
>C16-C21 #		<7	<7	mg/kg	TM5/PM16
>C21-C35 #		20	<7	mg/kg	TM5/PM16
Total aliphatics C5-35		20	<19	mg/kg	TM5/TM36/PM12/PM16
Total aliphatics C5-C12		<0.5	<0.5	mg/kg	TM5/TM36/PM12/PM16
Total aliphatics >C12-C35 #		20	<18	mg/kg	TM5/TM36/PM12/PM16
Aromatics					
>C5-EC7		<0.1	<0.1	mg/kg	TM36/PM12
>EC7-EC8		<0.1	<0.1	mg/kg	TM36/PM12
>EC8-EC10 #		<0.1	<0.1	mg/kg	TM36/PM12
>EC10-EC12 #		<0.2	<0.2	mg/kg	TM5/PM16
>EC12-EC16 #		<4	<4	mg/kg	TM5/PM16
>EC16-EC21 #		18	<7	mg/kg	TM5/PM16
>EC21-EC35 #		147	<7	mg/kg	TM5/PM16
Total aromatics C5-35		165	<19	mg/kg	TM5/TM36/PM12/PM16
Total aromatics C5-C12		<0.5	<0.5	mg/kg	TM5/TM36/PM12/PM16
Total aromatics >EC12-EC35 #		165	<18	mg/kg	TM5/TM36/PM12/PM16
Total aliphatics and aromatics(C5-35)		185	<38	mg/kg	TM5/TM36/PM12/PM16
PCB 28 #		-	<5	ug/kg	TM17/PM8
PCB 52 #		-	<5	ug/kg	TM17/PM8
PCB 101 #		-	<5	ug/kg	TM17/PM8
PCB 118 #		-	<5	ug/kg	TM17/PM8
PCB 138 #		-	<5	ug/kg	TM17/PM8
PCB 153 #		-	<5	ug/kg	TM17/PM8
PCB 180 #		-	<5	ug/kg	TM17/PM8

Jones Environment

Client Name: [redacted]

Reference:

Location:

Contact:

JE Job No.:

ass jar, T=plastic tub

J E Sample No.		35-37			
Sample ID		RBH102			
Depth		0.20			
COC No / misc					
Containers		V J T			
Sample Date		15/01/2013			
Sample Type		Soil			
Batch Number		1	LOD	Units	Method No.
Date of Receipt		17/01/2013			
Total 7 PCBs #		-	<35	ug/kg	TM17/PM8
Resorcinol		<0.01	<0.01	mg/kg	TM26/PM21
Catechol		<0.01	<0.01	mg/kg	TM26/PM21
Phenol #		<0.01	<0.01	mg/kg	TM26/PM21
m/p-cresol #		<0.02	<0.02	mg/kg	TM26/PM21
o-cresol #		0.03	<0.01	mg/kg	TM26/PM21
Total cresols #		0.03	<0.03	mg/kg	TM26/PM21
Xylenols #		<0.06	<0.06	mg/kg	TM26/PM21
1-naphthol		<0.01	<0.01	mg/kg	TM26/PM21
2,3,5-trimethyl phenol #		<0.01	<0.01	mg/kg	TM26/PM21
2-isopropylphenol #		<0.01	<0.01	mg/kg	TM26/PM21
Total Speciated Phenols HPLC		<0.15	<0.15	mg/kg	TM26/PM21
Natural Moisture Content		NDP	<0.1	%	PM4/PM0
Stone Content >= 10mm		NDP	<0.1	%	PM4/PM0
Ammoniacal Nitrogen as NH4		<0.6	<0.6	mg/kg	TM38/PM20
Chloride #		-	<2	mg/kg	TM38/PM20
Chloride #		5	<2	mg/kg	TM38/PM60
Sulphate as SO4 (2:1 Ext) #		-	<0.0015	g/l	TM38/PM20
Sulphate as SO4 (2:1 Ext) #		0.0169	<0.0015	g/l	TM38/PM60
Free Cyanide		<0.5	<0.5	mg/kg	TM89/PM45
Total Cyanide #		1.1	<0.5	mg/kg	TM89/PM45
Complex Cyanide		1.1	<0.5	mg/kg	TM89/PM45
Total Organic Carbon #		-	<0.2	%	TM21/PM24
Thiocyanate		<0.6	<0.6	mg/kg	TM107/PM45
ANC at pH4		-	<0.03	mol/kg	TM77/PM0
ANC at pH7		-	<0.03	mol/kg	TM77/PM0
Elemental Sulphur		1	<1	mg/kg	TM108/PM8
Loss on Ignition #		NDP	<1.0	%	TM22/PM0
pH #		8.00	<0.01	pH units	TM73/PM11
Sample Type		Clay		None	PM13/PM0
Sample Colour		Medium Brown		None	PM13/PM0
Other Items		stones		None	PM13/PM0

Please see attached notes for all abbreviations and acronyms

Client Name: WYG

Reference: A74754-28

Location: Bradford Road, Manchester

Contact: Jonathan Boyes

JE Job No.: 13/888

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

Please see attached notes for all abbreviations and acronyms

J E Sample No.	38-40												
Sample ID	RBH102												
Depth	1.00												
COC No / misc													
Containers	V J T												
Sample Date	15/01/2013												
Sample Type	Soil												
Batch Number	1												
Date of Receipt	17/01/2013												
												LOD	**Units**	**Method No.**
Arsenic #	8.7											<0.5	mg/kg	TM30/PM15
Arsenic	-											<0.5	mg/kg	TM30/PM62
Cadmium #	<0.1											<0.1	mg/kg	TM30/PM15
Cadmium	-											<0.1	mg/kg	TM30/PM62
Chromium #	27.6											<0.5	mg/kg	TM30/PM15
Chromium	-											<0.5	mg/kg	TM30/PM62
Copper #	60											<1	mg/kg	TM30/PM15
Copper	-											<1	mg/kg	TM30/PM62
Lead #	12											<5	mg/kg	TM30/PM15
Lead	-											<5	mg/kg	TM30/PM62
Mercury #	<0.1											<0.1	mg/kg	TM30/PM15
Mercury	-											<0.1	mg/kg	TM30/PM62
Nickel #	37.0											<0.7	mg/kg	TM30/PM15
Nickel	-											<0.7	mg/kg	TM30/PM62
Selenium #	<1											<1	mg/kg	TM30/PM15
Selenium	-											<1	mg/kg	TM30/PM62
Water Soluble Boron #	1.5											<0.1	mg/kg	TM74/PM32
Water Soluble Boron	-											<0.1	mg/kg	TM74/PM61
Zinc #	70											<5	mg/kg	TM30/PM15
Zinc	-											<5	mg/kg	TM30/PM62
PAH MS														
Naphthalene #	<0.04											<0.04	mg/kg	TM4/PM8
Acenaphthylene	<0.03											<0.03	mg/kg	TM4/PM8
Acenaphthene #	<0.05											<0.05	mg/kg	TM4/PM8
Fluorene #	<0.04											<0.04	mg/kg	TM4/PM8
Phenanthrene #	<0.03											<0.03	mg/kg	TM4/PM8
Anthracene #	<0.04											<0.04	mg/kg	TM4/PM8
Fluoranthene #	<0.03											<0.03	mg/kg	TM4/PM8
Pyrene #	<0.03											<0.03	mg/kg	TM4/PM8
Benzo(a)anthracene #	<0.06											<0.06	mg/kg	TM4/PM8
Chrysene #	<0.02											<0.02	mg/kg	TM4/PM8
Benzo(bk)fluoranthene #	<0.07											<0.07	mg/kg	TM4/PM8
Benzo(a)pyrene #	<0.04											<0.04	mg/kg	TM4/PM8
Indeno(123cd)pyrene #	<0.04											<0.04	mg/kg	TM4/PM8
Dibenzo(ah)anthracene #	<0.04											<0.04	mg/kg	TM4/PM8
Benzo(ghi)perylene #	<0.04											<0.04	mg/kg	TM4/PM8
Coronene	-											<0.04	mg/kg	TM4/PM8
PAH 16 Total	<0.6											<0.6	mg/kg	TM4/PM8
PAH 17 Total	-											<0.64	mg/kg	TM4/PM8
Benzo(b)fluoranthene	<0.05											<0.05	mg/kg	TM4/PM8
Benzo(k)fluoranthene	<0.02											<0.02	mg/kg	TM4/PM8
PAH Surrogate % Recovery	104											<0	%	TM4/PM8

Client Name: WYG

Reference: A74754-28

Location: Bradford Road, Manchester

Contact: Jonathan Boyes

JE Job No.: 13/888

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

Please see attached notes for all abbreviations and acronyms

J E Sample No.	38-40												
Sample ID	RBH102												
Depth	1.00												
COC No / misc													
Containers	V J T												
Sample Date	15/01/2013												
Sample Type	Soil												
Batch Number	1												
Date of Receipt	17/01/2013												
												LOD	**Units**	**Method No.**
Methyl Tertiary Butyl Ether #	<0.002											<0.002	mg/kg	TM15/PM10
Benzene #	<0.003											<0.003	mg/kg	TM15/PM10
Toluene #	<0.003											<0.003	mg/kg	TM15/PM10
Ethylbenzene #	<0.003											<0.003	mg/kg	TM15/PM10
p/m-Xylene #	<0.006											<0.006	mg/kg	TM15/PM10
o-Xylene #	<0.003											<0.003	mg/kg	TM15/PM10
Surrogate Recovery Toluene D8	81											<0	%	TM15/PM10
EPH (C8-C40) #	<30											<30	mg/kg	TM5/PM8
Mineral Oil (C8-C40)	-											<30	mg/kg	TM5/PM16
TPH CWG														
Aliphatics														
>C5-C6 #	-											<0.1	mg/kg	TM36/PM12
>C6-C8 #	-											<0.1	mg/kg	TM36/PM12
>C8-C10	-											<0.1	mg/kg	TM36/PM12
>C10-C12 #	-											<0.2	mg/kg	TM5/PM16
>C12-C16 #	-											<4	mg/kg	TM5/PM16
>C16-C21 #	-											<7	mg/kg	TM5/PM16
>C21-C35 #	-											<7	mg/kg	TM5/PM16
Total aliphatics C5-35	-											<19	mg/kg	TM5/TM36/PM12/PM16
Total aliphatics C5-C12	-											<0.5	mg/kg	TM5/TM36/PM12/PM16
Total aliphatics >C12-C35 #	-											<18	mg/kg	TM5/TM36/PM12/PM16
Aromatics														
>C5-EC7	-											<0.1	mg/kg	TM36/PM12
>EC7-EC8	-											<0.1	mg/kg	TM36/PM12
>EC8-EC10 #	-											<0.1	mg/kg	TM36/PM12
>EC10-EC12 #	-											<0.2	mg/kg	TM5/PM16
>EC12-EC16 #	-											<4	mg/kg	TM5/PM16
>EC16-EC21 #	-											<7	mg/kg	TM5/PM16
>EC21-EC35 #	-											<7	mg/kg	TM5/PM16
Total aromatics C5-35	-											<19	mg/kg	TM5/TM36/PM12/PM16
Total aromatics C5-C12	-											<0.5	mg/kg	TM5/TM36/PM12/PM16
Total aromatics >EC12-EC35 #	-											<18	mg/kg	TM5/TM36/PM12/PM16
Total aliphatics and aromatics(C5-35)	-											<38	mg/kg	TM5/TM36/PM12/PM16
PCB 28 #	-											<5	ug/kg	TM17/PM8
PCB 52 #	-											<5	ug/kg	TM17/PM8
PCB 101 #	-											<5	ug/kg	TM17/PM8
PCB 118 #	-											<5	ug/kg	TM17/PM8
PCB 138 #	-											<5	ug/kg	TM17/PM8
PCB 153 #	-											<5	ug/kg	TM17/PM8
PCB 180 #	-											<5	ug/kg	TM17/PM8

Jones Environmental Laboratory

Client Name:	WYG
Reference:	A74754-28
Location:	Bradford Road, Manchester
Contact:	Jonathan Boyes
JE Job No.:	13/888

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

Please see attached notes for all abbreviations and acronyms

J E Sample No.	38-40												
Sample ID	RBH102												
Depth	1.00												
COC No / misc													
Containers	V J T												
Sample Date	15/01/2013												
Sample Type	Soil												
Batch Number	1												
Date of Receipt	17/01/2013												
Total 7 PCBs #	-											<35	ug/kg	TM17/PM8
Resorcinol	<0.01											<0.01	mg/kg	TM26/PM21
Catechol	<0.01											<0.01	mg/kg	TM26/PM21
Phenol #	<0.01											<0.01	mg/kg	TM26/PM21
m/p-cresol #	<0.02											<0.02	mg/kg	TM26/PM21
o-cresol #	<0.01											<0.01	mg/kg	TM26/PM21
Total cresols #	<0.03											<0.03	mg/kg	TM26/PM21
Xylenols #	<0.06											<0.06	mg/kg	TM26/PM21
1-naphthol	<0.01											<0.01	mg/kg	TM26/PM21
2,3,5-trimethyl phenol #	<0.01											<0.01	mg/kg	TM26/PM21
2-isopropylphenol #	<0.01											<0.01	mg/kg	TM26/PM21
Total Speciated Phenols HPLC	<0.15											<0.15	mg/kg	TM26/PM21
Natural Moisture Content	23.8											<0.1	%	PM4/PM0
Stone Content >= 10mm	3.1											<0.1	%	PM4/PM0
Ammoniacal Nitrogen as NH4	<0.6											<0.6	mg/kg	TM38/PM20
Chloride #	37											<2	mg/kg	TM38/PM20
Chloride #	-											<2	mg/kg	TM38/PM60
Sulphate as SO4 (2:1 Ext) #	0.1060											<0.0015	g/l	TM38/PM20
Sulphate as SO4 (2:1 Ext) #	-											<0.0015	g/l	TM38/PM60
Free Cyanide	<0.5											<0.5	mg/kg	TM89/PM45
Total Cyanide #	<0.5											<0.5	mg/kg	TM89/PM45
Complex Cyanide	<0.5											<0.5	mg/kg	TM89/PM45
Total Organic Carbon #	-											<0.2	%	TM21/PM24
Thiocyanate	<0.6											<0.6	mg/kg	TM107/PM45
ANC at pH4	-											<0.03	mol/kg	TM77/PM0
ANC at pH7	-											<0.03	mol/kg	TM77/PM0
Elemental Sulphur	<1											<1	mg/kg	TM108/PM8
Loss on Ignition #	4.4											<1.0	%	TM22/PM0
pH #	8.35											<0.01	pH units	TM73/PM11
Sample Type	Clay												None	PM13/PM0
Sample Colour	Medium Brown												None	PM13/PM0
Other Items	none												None	PM13/PM0

Jones Environment

Client Name: [redacted]

Reference:

Location:

Contact:

JE Job No.:

Report : NRA Leachate

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

Please see attached notes for all abbreviations and acronyms

J E Sample No.					38-40						**LOD**	**Units**	**Method No.**
Sample ID				D	RBH102								
Depth					1.00								
COC No / misc													
Containers					V J T								
Sample Date				3	15/01/2013								
Sample Type					Soil								
Batch Number					1								
Date of Receipt				3	17/01/2013								
Dissolved Arsenic					<0.0009						<0.0009	mg/l	TM30/PM14
Dissolved Cadmium					0.00398						<0.00003	mg/l	TM30/PM14
Dissolved Chromium					0.0006						<0.0002	mg/l	TM30/PM14
Dissolved Copper					0.009						<0.003	mg/l	TM30/PM14
Dissolved Iron					0.1811						<0.0047	mg/l	TM30/PM14
Dissolved Lead					0.0022						<0.0004	mg/l	TM30/PM14
Dissolved Nickel					0.0008						<0.0002	mg/l	TM30/PM14
Dissolved Selenium					<0.0012						<0.0012	mg/l	TM30/PM14
Dissolved Zinc					0.0017						<0.0015	mg/l	TM30/PM14
Mercury Dissolved by CVAF					<0.00001						<0.00001	mg/l	TM61/PM38
Total Dissolved Sulphur					7.57						<0.01	mg/l	TM30/PM14
PAH MS													
Naphthalene					0.000210						<0.000014	mg/l	TM4/PM30
Acenaphthylene					<0.000013						<0.000013	mg/l	TM4/PM30
Acenaphthene					<0.000013						<0.000013	mg/l	TM4/PM30
Fluorene					0.000020						<0.000014	mg/l	TM4/PM30
Phenanthrene					0.000060						<0.000011	mg/l	TM4/PM30
Anthracene					0.000020						<0.000013	mg/l	TM4/PM30
Fluoranthene				+	0.000060						<0.000012	mg/l	TM4/PM30
Pyrene				+	0.000040						<0.000013	mg/l	TM4/PM30
Benzo(a)anthracene					0.000030						<0.000015	mg/l	TM4/PM30
Chrysene					0.000040						<0.000011	mg/l	TM4/PM30
Benzo(bk)fluoranthene					0.000040						<0.000018	mg/l	TM4/PM30
Benzo(a)pyrene					<0.000016						<0.000016	mg/l	TM4/PM30
Indeno(123cd)pyrene					<0.000011						<0.000011	mg/l	TM4/PM30
Dibenzo(ah)anthracene					<0.00001						<0.00001	mg/l	TM4/PM30
Benzo(ghi)perylene					<0.000011						<0.000011	mg/l	TM4/PM30
PAH 16 Total					0.000520						<0.000195	mg/l	TM4/PM30
PAH Surrogate % Recovery					110						<0	%	TM4/PM30
Methyl Tertiary Butyl Ether					<0.001						<0.001	mg/l	TM15/PM10
Benzene					<0.001						<0.001	mg/l	TM15/PM10
Toluene					<0.002						<0.002	mg/l	TM15/PM10
Ethylbenzene					<0.002						<0.002	mg/l	TM15/PM10
p/m-Xylene					<0.003						<0.003	mg/l	TM15/PM10
o-Xylene					<0.002						<0.002	mg/l	TM15/PM10
Surrogate Recovery Toluene D8					100						<0	%	TM15/PM10
Surrogate Recovery 4-Bromofluorobenzene					107						<0	%	TM15/PM10

Jones Environmenta

Client Name: [redacted]

Reference:

Location:

Contact: J

JE Job No.: 1

Report : NRA Leachate

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

Please see attached notes for all abbreviations and acronyms

J E Sample No.			38-40							
Sample ID			RBH102							
Depth			1.00							
COC No / misc										
Containers			V J T							
Sample Date	1		15/01/2013							
Sample Type			Soil							
Batch Number			1						**LOD**	**Units**	**Method No.**
Date of Receipt	1		17/01/2013							
TPH CWG										
Aliphatics										
>C5-C6			-						<5	ug/l	TM36/PM12
>C6-C8			-						<5	ug/l	TM36/PM12
>C8-C10			-						<5	ug/l	TM36/PM12
>C10-C12			-						<5	ug/l	TM5/PM30
>C12-C16			-						<10	ug/l	TM5/PM30
>C16-C21			-						<10	ug/l	TM5/PM30
>C21-C35			-						<10	ug/l	TM5/PM30
Total aliphatics C5-35			-						<10	ug/l	TM5/TM36/PM30
Aromatics										
>C5-EC7			-						<5	ug/l	TM36/PM12
>EC7-EC8			-						<5	ug/l	TM36/PM12
>EC8-EC10			-						<5	ug/l	TM36/PM12
>EC10-EC12			-						<5	ug/l	TM5/PM30
>EC12-EC16			-						<10	ug/l	TM5/PM30
>EC16-EC21			-						<10	ug/l	TM5/PM30
>EC21-EC35			-						<10	ug/l	TM5/PM30
Total aromatics C5-35			-						<10	ug/l	TM5/PM30
Total aliphatics and aromatics(C5-35)			-						<10	ug/l	TM5/TM36/PM30
EPH (C8-C40)			<0.01						<0.01	mg/l	TM5/PM30
Resorcinol			<0.0005						<0.0005	mg/l	TM26/PM0
Catechol			<0.0005						<0.0005	mg/l	TM26/PM0
Phenol			<0.0005						<0.0005	mg/l	TM26/PM0
m/p-cresol			<0.0005						<0.0005	mg/l	TM26/PM0
o-cresol			<0.0005						<0.0005	mg/l	TM26/PM0
Total cresols			<0.0005						<0.0005	mg/l	TM26/PM0
Xylenols			<0.0005						<0.0005	mg/l	TM26/PM0
1-naphthol			<0.0005						<0.0005	mg/l	TM26/PM0
2,3,5-trimethyl phenol			<0.0005						<0.0005	mg/l	TM26/PM0
2-isopropylphenol			<0.0005						<0.0005	mg/l	TM26/PM0
Total Speciated Phenols HPLC			<0.005						<0.005	mg/l	TM26/PM0
Chloride			2.5						<0.3	mg/l	TM27/PM0
Sulphate			19.17						<0.05	mg/l	TM27/PM0
Free Cyanide			<0.01						<0.01	mg/l	TM89/PM0
Total Cyanide			<0.005						<0.005	mg/l	TM89/PM0
Complex Cyanide			<0.01						<0.01	mg/l	TM89/PM0
Ammoniacal Nitrogen as NH4			0.11						<0.03	mg/l	TM38/PM0

Jones Environment

Client Name: [redacted]

Reference:

Location:

Contact:

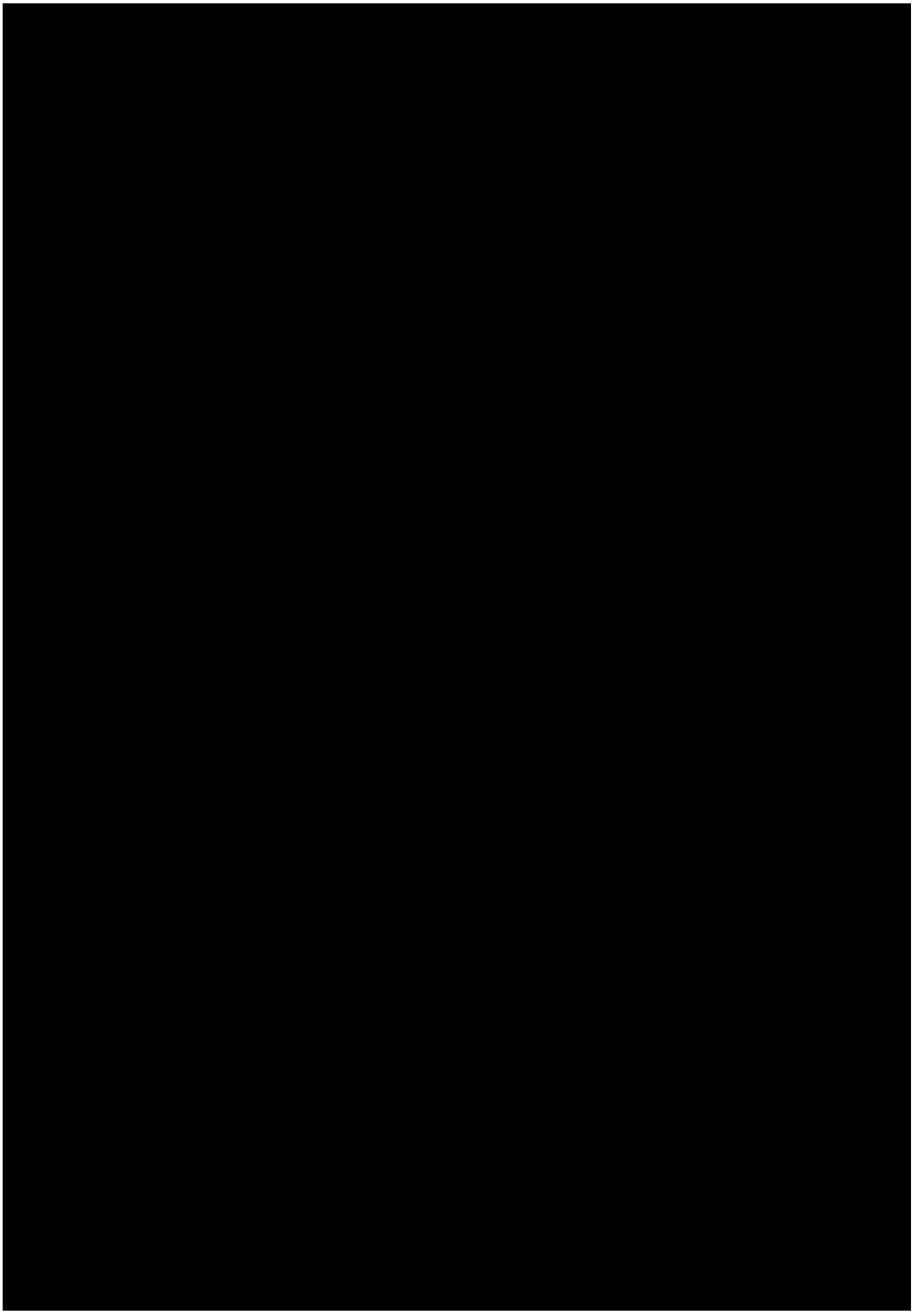
JE Job No.:

Report : NRA Leachate

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

Please see attached notes for all abbreviations and acronyms

J E Sample No.	38-40						LOD	Units	Method No.
Sample ID	RBH102								
Depth	1.00								
COC No / misc									
Containers	V J T								
Sample Date	15/01/2013								
Sample Type	Soil								
Batch Number	1								
Date of Receipt	17/01/2013								
Sulphide	<0.3						<0.3	mg/l	TM106/PM0
Thiocyanate	<0.02						<0.02	mg/l	TM107/PM0
Dissolved Organic Carbon	3						<2	mg/l	TM60/PM0
Electrical Conductivity @25C	151						<2	uS/cm	TM76/PM0
pH	8.07						<0.01	pH units	TM73/PM0



Client Name: WYG

Reference: A74754-28

Location: Bradford Road, Manchester

Contact: Jonathan Boyes

Note:

Analysis was carried out in accordance with our documented in-house methods PM042 and TM065 and HSG 248 by Stereo and Polarised Light Microscopy using Dispersion Staining Techniques and is covered by our UKAS accreditation. Samples are retained for not less than 6 months from the date of analysis unless specifically requested.

Opinions lie outside the scope of our UKAS accreditation.

Where the sample is not taken by a Jones Environmental Laboratory consultant, Jones Environmental Laboratory cannot be responsible for inaccurate or unrepresentative sampling.

Signed on behalf of Jones Environmental Laboratory:



Gemma Newsome
Asbestos Team Leader

J E Job No.	Batch	Sample ID	Depth	J E Sample No.	Date Of Analysis	Description	Asbestos Results
[redacted]							

Client Name: WYG

Reference: A74754-28

Location: Bradford Road, Manchester

Contact: Jonathan Boyes

J E Job No.	Batch	Sample ID	Depth	J E Sample No.	NDP Reason
[redacted]					
13/888	1	RBH102	0.20	35-37	Asbestos detected in sample

NOTES TO ACCOMPANY ALL SCHEDULES AND REPORTS

JE Job No.: 13/888

SOILS

Please note we are only MCERTS accredited for sand, loam and clay and any other matrix is outside our scope of accreditation.

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation has been performed on clay, sand and loam, only samples that are predominantly these matrices, or combinations of them will be within our MCERTS scope. If samples are not one of a combination of the above matrices they will not be marked as MCERTS accredited.

It is assumed that you have taken representative samples on site and require analysis on a representative subsample. Stones will generally be included unless we are requested to remove them.

All samples will be discarded one month after the date of reporting, unless we are instructed to the contrary. If we are instructed to keep samples, a storage charge of £1 (1.5 Euros) per sample per month will be applied until we are asked to dispose of them.

If you have not already done so, please send us a purchase order if this is required by your company.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

All analysis is reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected. Samples are dried at 35°C ±5°C unless otherwise stated. Moisture content for CEN Leachate tests are dried at 105°C ±5°C.

WATERS

Please note we are not a Drinking Water Inspectorate (DWI) Approved Laboratory . It is important that detection limits are carefully considered when requesting water analysis.

UKAS accreditation applies to surface water and groundwater and one other matrix which is analysis specific, any other liquids are outside our scope of accreditation

As surface waters require different sample preparation to groundwaters the laboratory must be informed of the water type when submitting samples.

DEVIATING SAMPLES

Samples must be received in a condition appropriate to the requested analyses. All samples should be submitted to the laboratory in suitable containers with sufficient ice packs to sustain an appropriate temperature for the requested analysis. If this is not the case you will be informed and any test results that may be compromised highlighted on your deviating samples report.

SURROGATES

Surrogate compounds are added during the preparation process to monitor recovery of analytes. However low recovery in soils is often due to peat, clay or other organic rich matrices. For waters this can be due to oxidants, surfactants, organic rich sediments or remediation fluids. Acceptable limits for most organic methods are 70 - 130% and for VOCs are 50 - 150%. When surrogate recoveries are outside the performance criteria but the associated AQC passes this is assumed to be due to matrix effect. Results are not surrogate corrected.

NOTE

Data is only accredited when all the requirements of our Quality System have been met. In certain circumstances where the requirements have not been met, the laboratory may issue the data in an interim report but will remove the accreditation, in this instance results should be considered indicative only. Where possible samples will be re-extracted and a final report issued with accredited results. Please do not hesitate to contact the laboratory if further details are required of the circumstances which have led to the removal of accreditation.

ABBREVIATIONS and ACRONYMS USED

#	UKAS accredited.
B	Indicates analyte found in associated method blank.
DR	Dilution required.
M	MCERTS accredited.
NA	Not applicable
NAD	No Asbestos Detected.
ND	None Detected (usually refers to VOC and/SVOC TICs).
NDP	No Determination Possible
SS	Calibrated against a single substance.
SV	Surrogate recovery outside performance criteria. This may be due to a matrix effect.
W	Results expressed on as received basis.
+	AQC failure, accreditation has been removed from this result, if appropriate, see 'Note' on previous page.
++	Result outside calibration range, results should be considered as indicative only and are not accredited.
*	Analysis subcontracted to a Jones Environmental approved laboratory.
CO	Suspected carry over
NFD	No Fibres Detected

JE Job No 13/888

Test Method No.	Description	Prep Method No. (if appropriate)	Description	UKAS	MCERTS (soils only)	Analysis done on As Received (AR) or Air Dried (AD)	Solid Results expressed on Dry/Wet basis
PM4	Moisture Content	PM0	No Preparation				
PM4	Moisture Content	PM0	No Preparation				WET
TM4	16 PAH by GC-MS, modified USEPA 8270	PM30	Magnetic stirrer extraction			AR	
TM4	16 PAH by GC-MS, modified USEPA 8270	PM30	Magnetic stirrer extraction			AR	WET
TM4	16 PAH by GC-MS, modified USEPA 8270	PM8	End Over End extraction			AR	DRY
TM4	16 PAH by GC-MS, modified USEPA 8270	PM8	End Over End extraction	Yes		AR	DRY
TM4	16 PAH by GC-MS, modified USEPA 8270	PM8	End Over End extraction			AR	
TM5	EPH by GC-FID, modified USEPA 8015	PM16	Aliphatic/Aromatic fractionation			AR	DRY
TM5	EPH by GC-FID, modified USEPA 8015	PM16	Aliphatic/Aromatic fractionation	Yes		AR	DRY
TM5	EPH by GC-FID, modified USEPA 8015	PM30	Magnetic stirrer extraction			AR	WET
TM5	EPH by GC-FID, modified USEPA 8015	PM8	End Over End extraction	Yes		AR	DRY
TM5/TM36	TPH CWG by GC-FID	PM12/PM16	CWG GC-FID			AR	DRY
TM5/TM36	TPH CWG by GC-FID	PM12/PM16	CWG GC-FID	Yes		AR	DRY
TM5/TM36	TPH CWG by GC-FID	PM30	Magnetic stirrer extraction			AR	WET
PM13	Soil Typing for MCERTS	PM0	No Preparation			AR	
TM15	VOC - Target by GC-MS, modified USEPA 8260	PM10	VOC GC-MS			AR	DRY
TM15	VOC - Target by GC-MS, modified USEPA 8260	PM10	VOC GC-MS	Yes		AR	DRY
TM15	VOC - Target by GC-MS, modified USEPA 8260	PM10	VOC GC-MS			AR	
TM15	VOC - Target by GC-MS, modified USEPA 8260	PM10	VOC GC-MS			AR	WET
TM17	PCB 7 Congeners and WHO 12 PCBs by GC-MS	PM8	End Over End extraction	Yes		AR	DRY
TM20	TDS, TSS and TS - gravimetric	PM0	No Preparation			AR	DRY
TM21	TOC and TC by Combustion	PM24	Eltra preparation	Yes		AD	DRY
TM22	Loss on Ignition (LOI) - gravimetric	PM0	No Preparation	Yes		AD	DRY
TM26	Phenols by HPLC	PM0	No Preparation			AR	WET
TM26	Phenols by HPLC	PM21	Methanol : NaOH extraction			AR	DRY
TM26	Phenols by HPLC	PM21	Methanol : NaOH extraction	Yes		AR	DRY
TM27	SO4,Cl,NO3,NO2,F,PO4 by Dionex	PM0	No Preparation			AR	DRY
TM27	SO4,Cl,NO3,NO2,F,PO4 by Dionex	PM0	No Preparation			AR	WET
TM30	Metals by ICP-OES	PM14	Metals by ICP (Waters)			AR	DRY
TM30	Metals by ICP-OES	PM14	Metals by ICP (Waters)			AR	WET
TM30	Metals by ICP-OES	PM15	Aqua Regia extraction (Soils)	Yes		AD	DRY
TM30	Metals by ICP-OES	PM62	Aqua Regia extraction (Soils) (as received sample)			AR	DRY
TM36	GRO by Headspace GC-FID	PM12	GRO GC-FID			AR	DRY
TM36	GRO by Headspace GC-FID	PM12	GRO GC-FID	Yes		AR	DRY
TM36	GRO by Headspace GC-FID	PM12	GRO GC-FID			AR	WET
TM38	SO4,Cl,NO3,NO2,F,PO4, Amm N2,ThioCN, Hex Cr by Aquakem	PM0	No Preparation			AR	DRY
TM38	SO4,Cl,NO3,NO2,F,PO4, Amm N2,ThioCN, Hex Cr by Aquakem	PM0	No Preparation			AR	WET
TM38	SO4,Cl,NO3,NO2,F,PO4, Amm N2,ThioCN, Hex Cr by Aquakem	PM20	1:2 soil to water extraction	Yes		AD	DRY
TM38	SO4,Cl,NO3,NO2,F,PO4, Amm N2,ThioCN, Hex Cr by Aquakem	PM20	1:2 soil to water extraction			AR	DRY
TM38	SO4,Cl,NO3,NO2,F,PO4, Amm N2,ThioCN, Hex Cr by Aquakem	PM60	1:2 soil to water extraction (as received sample)	Yes		AR	DRY
TM60	TOC/DOC by NDIR	PM0	No Preparation			AR	DRY
TM60	TOC/DOC by NDIR	PM0	No Preparation			AR	WET
TM61	Mercury - low level CVAF	PM38	Mercury CVAF			AR	WET

JE Job No 13/888

Test Method No.	Description	Prep Method No. (if appropriate)	Description	UKAS	MCERTS (soils only)	Analysis done on As Received (AR) or Air Dried (AD)	Solid Results expressed on Dry/Wet basis
TM65	Asbestos Bulk Identification	PM42	Screening of soils for fibres			AR	
TM65	Asbestos Bulk Identification	PM42	Screening of soils for fibres	Yes		AR	
TM73	pH in by Metrohm	PM0	No Preparation			AR	WET
TM73	pH in by Metrohm	PM11	1:2.5 soil/water extraction	Yes		AR	WET
TM74	Water Soluble Boron by ICP-OES	PM32	Preparation of soils for WSB	Yes		AD	DRY
TM74	Water Soluble Boron by ICP-OES	PM61	Preparation of soils for WSB (as received sample)			AR	DRY
TM76	Electrical Conductivity by Metrohm	PM0	No Preparation			AR	WET
TM77	ANC at pH4 and pH7 by Metrohm	PM0	No Preparation			AR	WET
TM89	Cyanide by FIA	PM0	No Preparation			AR	WET
TM89	Cyanide by FIA	PM45	Cyanide & Thiocyanate prep for soils			AR	DRY
TM89	Cyanide by FIA	PM45	Cyanide & Thiocyanate prep for soils	Yes		AR	DRY
TM101	Phenol Index 4-aminoantipyrine spectrophotometric	PM0	No Preparation			AR	DRY
TM106	Sulphide by CFA	PM0	No Preparation			AR	WET
TM107	Thiocyanate by CFA	PM0	No Preparation			AR	WET
TM107	Thiocyanate by CFA	PM45	Cyanide & Thiocyanate prep for soils			AR	DRY
TM108	Elemental Sulphur by HPLC	PM8	End Over End extraction			AR	DRY
NONE	No Method Code	PM18	CEN PR12457-3 10:1 2 batch leach			AR	DRY
NONE	No Method Code	PM4	Moisture Content			AR	

Jones Environmental Laboratory

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WYG
Arndale Court
Arndale Centre
Otley Road
Leeds
LS6 2UJ

No.4225

Attention :	Jonathan Boyes
Date :	31st January, 2013
Your reference :	A74754-28
Our reference :	Test Report 13/1069 Batch 1
Location :	BRADFORD ROAD MANCHESTER
Date samples received :	23rd January, 2013
Status :	Final report
Issue :	1

Seventeen samples were received for analysis on 23rd January, 2013. Please find attached our Test Report which should be read with notes at the end of the report and should include all sections if reproduced. Interpretations and opinions are outside the scope of any accreditation, and all results relate only to samples supplied.
All analysis is carried out on as received samples and reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected.

Compiled By:

Phil Sommerton B.Sc
Project Manager

Bob Millward B.Sc
Principal Chemist

Jones Environmental Laboratory

Client Name: WYG

Reference: A74754-28

Location: BRADFOR

Contact: Jonathan B

JE Job No.: 13/1069

Report : Solid

lastic tub

Please see attached notes for all abbreviations and acronyms

J E Sample No.	1-3	
Sample ID	RBH102	
Depth	14.6-14.9	
COC No / misc		
Containers	V J T	
Sample Date	16/01/2013	1
Sample Type	Soil	
Batch Number	1	
Date of Receipt	23/01/2013	2

			LOD	Units	Method No.
Arsenic #	5.5		<0.5	mg/kg	TM30/PM15
Arsenic	-		<0.5	mg/kg	TM30/PM62
Cadmium #	0.2		<0.1	mg/kg	TM30/PM15
Cadmium	-		<0.1	mg/kg	TM30/PM62
Chromium #	17.0		<0.5	mg/kg	TM30/PM15
Chromium	-		<0.5	mg/kg	TM30/PM62
Copper #	34		<1	mg/kg	TM30/PM15
Copper	-		<1	mg/kg	TM30/PM62
Lead #	19		<5	mg/kg	TM30/PM15
Lead	-		<5	mg/kg	TM30/PM62
Mercury #	0.1		<0.1	mg/kg	TM30/PM15
Mercury	-		<0.1	mg/kg	TM30/PM62
Nickel #	31.6		<0.7	mg/kg	TM30/PM15
Nickel	-		<0.7	mg/kg	TM30/PM62
Selenium #	<1		<1	mg/kg	TM30/PM15
Selenium	-		<1	mg/kg	TM30/PM62
Water Soluble Boron #	1.1		<0.1	mg/kg	TM74/PM32
Water Soluble Boron	-		<0.1	mg/kg	TM74/PM61
Zinc #	105		<5	mg/kg	TM30/PM15
Zinc	-		<5	mg/kg	TM30/PM62
PAH MS					
Naphthalene #	<0.04		<0.04	mg/kg	TM4/PM8
Acenaphthylene	<0.03		<0.03	mg/kg	TM4/PM8
Acenaphthene #	<0.05		<0.05	mg/kg	TM4/PM8
Fluorene #	<0.04		<0.04	mg/kg	TM4/PM8
Phenanthrene #	<0.03		<0.03	mg/kg	TM4/PM8
Anthracene #	<0.04		<0.04	mg/kg	TM4/PM8
Fluoranthene #	<0.03		<0.03	mg/kg	TM4/PM8
Pyrene #	<0.03		<0.03	mg/kg	TM4/PM8
Benzo(a)anthracene #	<0.06		<0.06	mg/kg	TM4/PM8
Chrysene #	<0.02		<0.02	mg/kg	TM4/PM8
Benzo(bk)fluoranthene #	<0.07		<0.07	mg/kg	TM4/PM8
Benzo(a)pyrene #	<0.04		<0.04	mg/kg	TM4/PM8
Indeno(123cd)pyrene #	<0.04		<0.04	mg/kg	TM4/PM8
Dibenzo(ah)anthracene #	<0.04		<0.04	mg/kg	TM4/PM8
Benzo(ghi)perylene #	<0.04		<0.04	mg/kg	TM4/PM8
Coronene	-		<0.04	mg/kg	TM4/PM8
PAH 16 Total	<0.6		<0.6	mg/kg	TM4/PM8
PAH 17 Total	-		<0.64	mg/kg	TM4/PM8
Benzo(b)fluoranthene	<0.05		<0.05	mg/kg	TM4/PM8
Benzo(k)fluoranthene	<0.02		<0.02	mg/kg	TM4/PM8
PAH Surrogate % Recovery	105		<0	%	TM4/PM8

Client Name: WYG
Reference: A74754-2
Location: BRADFO
Contact: Jonathan
JE Job No.: 13/1069

plastic tub

Please see attached notes for all abbreviations and acronyms

J E Sample No.	1-3
Sample ID	RBH102
Depth	14.6-14.9
COC No / misc	
Containers	V J T
Sample Date	16/01/2013
Sample Type	Soil
Batch Number	1
Date of Receipt	23/01/2013

		LOD	Units	Method No.
Methyl Tertiary Butyl Ether #	<0.002	<0.002	mg/kg	TM15/PM10
Benzene #	0.042	<0.003	mg/kg	TM15/PM10
Toluene #	0.023	<0.003	mg/kg	TM15/PM10
Ethylbenzene #	0.006	<0.003	mg/kg	TM15/PM10
p/m-Xylene #	0.017	<0.006	mg/kg	TM15/PM10
o-Xylene #	0.006	<0.003	mg/kg	TM15/PM10
Surrogate Recovery Toluene D8	68	<0	%	TM15/PM10
		<0.6	mg/kg	TM4/PM8
EPH (C8-C40) #	<30	<30	mg/kg	TM5/PM8
Mineral Oil (C8-C40)	-	<30	mg/kg	TM5/PM16
TPH CWG				
Aliphatics				
>C5-C6 #	-	<0.1	mg/kg	TM36/PM12
>C6-C8 #	-	<0.1	mg/kg	TM36/PM12
>C8-C10	-	<0.1	mg/kg	TM36/PM12
>C10-C12 #	-	<0.2	mg/kg	TM5/PM16
>C12-C16 #	-	<4	mg/kg	TM5/PM16
>C16-C21 #	-	<7	mg/kg	TM5/PM16
>C21-C35 #	-	<7	mg/kg	TM5/PM16
Total aliphatics C5-35	-	<19	mg/kg	TM5/TM36/PM12/PM16
Total aliphatics C5-C12	-	<0.5	mg/kg	TM5/TM36/PM12/PM16
Total aliphatics >C12-C35 #	-	<18	mg/kg	TM5/TM36/PM12/PM16
Aromatics				
>C5-EC7	-	<0.1	mg/kg	TM36/PM12
>EC7-EC8	-	<0.1	mg/kg	TM36/PM12
>EC8-EC10 #	-	<0.1	mg/kg	TM36/PM12
>EC10-EC12 #	-	<0.2	mg/kg	TM5/PM16
>EC12-EC16 #	-	<4	mg/kg	TM5/PM16
>EC16-EC21 #	-	<7	mg/kg	TM5/PM16
>EC21-EC35 #	-	<7	mg/kg	TM5/PM16
Total aromatics C5-35	-	<19	mg/kg	TM5/TM36/PM12/PM16
Total aromatics C5-C12	-	<0.5	mg/kg	TM5/TM36/PM12/PM16
Total aromatics >EC12-EC35 #	-	<18	mg/kg	TM5/TM36/PM12/PM16
Total aliphatics and aromatics(C5-35)	-	<38	mg/kg	TM5/TM36/PM12/PM16
MTBE #	-	<5	ug/kg	TM31/PM12
Benzene #	-	<5	ug/kg	TM31/PM12
Toluene #	-	<5	ug/kg	TM31/PM12
Ethylbenzene #	-	<5	ug/kg	TM31/PM12
m/p-Xylene #	-	<5	ug/kg	TM31/PM12
o-Xylene #	-	<5	ug/kg	TM31/PM12

Jones Environmental Laboratory

Client Name: WYG

Reference: A74754-28

Location: BRADFOR

Contact: Jonathan B

JE Job No.: 13/1069

lastic tub

Please see attached notes for all abbreviations and acronyms

J E Sample No.	1-3		LOD	Units	Method No.
Sample ID	RBH102				
Depth	14.6-14.9				
COC No / misc					
Containers	V J T				
Sample Date	16/01/2013	1			
Sample Type	Soil				
Batch Number	1				
Date of Receipt	23/01/2013	2			
PCB 28 #	-		<5	ug/kg	TM17/PM8
PCB 52 #	-		<5	ug/kg	TM17/PM8
PCB 101 #	-		<5	ug/kg	TM17/PM8
PCB 118 #	-		<5	ug/kg	TM17/PM8
PCB 138 #	-		<5	ug/kg	TM17/PM8
PCB 153 #	-		<5	ug/kg	TM17/PM8
PCB 180 #	-		<5	ug/kg	TM17/PM8
Total 7 PCBs #	-		<35	ug/kg	TM17/PM8
Resorcinol	<0.01		<0.01	mg/kg	TM26/PM21
Catechol	<0.01		<0.01	mg/kg	TM26/PM21
Phenol #	<0.01		<0.01	mg/kg	TM26/PM21
m/p-cresol #	<0.02		<0.02	mg/kg	TM26/PM21
o-cresol #	<0.01		<0.01	mg/kg	TM26/PM21
Total cresols #	<0.03		<0.03	mg/kg	TM26/PM21
Xylenols #	<0.06		<0.06	mg/kg	TM26/PM21
1-naphthol	<0.01		<0.01	mg/kg	TM26/PM21
2,3,5-trimethyl phenol #	<0.01		<0.01	mg/kg	TM26/PM21
2-isopropylphenol #	<0.01		<0.01	mg/kg	TM26/PM21
Total Speciated Phenols HPLC	<0.15		<0.15	mg/kg	TM26/PM21
Natural Moisture Content	20.9		<0.1	%	PM4/PM0
Stone Content >= 10mm	<0.1		<0.1	%	PM4/PM0
Ammoniacal Nitrogen as NH4	<0.6		<0.6	mg/kg	TM38/PM20
Chloride #	11		<2	mg/kg	TM38/PM20
Chloride #	-		<2	mg/kg	TM38/PM60
Sulphate as SO4 (2:1 Ext) #	0.0321		<0.0015	g/l	TM38/PM20
Sulphate as SO4 (2:1 Ext) #	-		<0.0015	g/l	TM38/PM60
Free Cyanide	<0.5		<0.5	mg/kg	TM89/PM45
Total Cyanide #	<0.5		<0.5	mg/kg	TM89/PM45
Complex Cyanide	<0.5		<0.5	mg/kg	TM89/PM45
Total Organic Carbon #	1.2		<0.2	%	TM21/PM24
Thiocyanate	<0.6		<0.6	mg/kg	TM107/PM45
ANC at pH4	-		<0.03	mol/kg	TM77/PM0
ANC at pH7	-		<0.03	mol/kg	TM77/PM0
Elemental Sulphur	<1		<1	mg/kg	TM108/PM8
Loss on Ignition #	13.3		<1.0	%	TM22/PM0
pH #	8.82		<0.01	pH units	TM73/PM11
Sample Type	Clay			None	PM13/PM0

Jones Environmental Laboratory

Client Name:	WYG
Reference:	A74754-28
Location:	BRADFORD
Contact:	Jonathan Bo
JE Job No.:	13/1069

lastic tub

Please see attached notes for all abbreviations and acronyms

J E Sample No.	1-3		LOD	Units	Method No.
Sample ID	RBH102	B			
Depth	14.6-14.9	3			
COC No / misc					
Containers	V J T				
Sample Date	16/01/2013	18/			
Sample Type	Soil				
Batch Number	1				
Date of Receipt	23/01/2013	23/			
Sample Colour	Dark Grey	Da		None	PM13/PM0
Other Items	stones	s		None	PM13/PM0

Client Name: [redacted] **Report : Solid**

Reference: A

Location: B **Solids:** V=60g VOC jar, J=250g glass jar, T=plastic tub

Contact: J

JE Job No.: 1

J E Sample No.											
Sample ID											
Depth											
COC No / misc											
Containers											
Sample Date	2										
Sample Type											
Batch Number											
Date of Receipt	2										

Please see attached notes for all abbreviations and acronyms

	LOD	Units	Method No.
Arsenic #	<0.5	mg/kg	TM30/PM15
Arsenic	<0.5	mg/kg	TM30/PM62
Cadmium #	<0.1	mg/kg	TM30/PM15
Cadmium	<0.1	mg/kg	TM30/PM62
Chromium #	<0.5	mg/kg	TM30/PM15
Chromium	<0.5	mg/kg	TM30/PM62
Copper #	<1	mg/kg	TM30/PM15
Copper	<1	mg/kg	TM30/PM62
Lead #	<5	mg/kg	TM30/PM15
Lead	<5	mg/kg	TM30/PM62
Mercury #	<0.1	mg/kg	TM30/PM15
Mercury	<0.1	mg/kg	TM30/PM62
Nickel #	<0.7	mg/kg	TM30/PM15
Nickel	<0.7	mg/kg	TM30/PM62
Selenium #	<1	mg/kg	TM30/PM15
Selenium	<1	mg/kg	TM30/PM62
Water Soluble Boron #	<0.1	mg/kg	TM74/PM32
Water Soluble Boron	<0.1	mg/kg	TM74/PM61
Zinc #	<5	mg/kg	TM30/PM15
Zinc	<5	mg/kg	TM30/PM62
PAH MS			
Naphthalene #	<0.04	mg/kg	TM4/PM8
Acenaphthylene	<0.03	mg/kg	TM4/PM8
Acenaphthene #	<0.05	mg/kg	TM4/PM8
Fluorene #	<0.04	mg/kg	TM4/PM8
Phenanthrene #	<0.03	mg/kg	TM4/PM8
Anthracene #	<0.04	mg/kg	TM4/PM8
Fluoranthene #	<0.03	mg/kg	TM4/PM8
Pyrene #	<0.03	mg/kg	TM4/PM8
Benzo(a)anthracene #	<0.06	mg/kg	TM4/PM8
Chrysene #	<0.02	mg/kg	TM4/PM8
Benzo(bk)fluoranthene #	<0.07	mg/kg	TM4/PM8
Benzo(a)pyrene #	<0.04	mg/kg	TM4/PM8
Indeno(123cd)pyrene #	<0.04	mg/kg	TM4/PM8
Dibenzo(ah)anthracene #	<0.04	mg/kg	TM4/PM8
Benzo(ghi)perylene #	<0.04	mg/kg	TM4/PM8
Coronene	<0.04	mg/kg	TM4/PM8
PAH 16 Total	<0.6	mg/kg	TM4/PM8
PAH 17 Total	<0.64	mg/kg	TM4/PM8
Benzo(b)fluoranthene	<0.05	mg/kg	TM4/PM8
Benzo(k)fluoranthene	<0.02	mg/kg	TM4/PM8
PAH Surrogate % Recovery	<0	%	TM4/PM8

Jones Environmen

Client Name: [redacted] ***eport : Solid***

Reference:

Location: ***lids:*** V=60g VOC jar, J=250g glass jar, T=plastic tub

Contact:

JE Job No.:

J E Sample No							
Sample I							
Dept							
COC No / mis							
Container							
Sample Dat							
Sample Typ							
Batch Numbe							
Date of Receip					**LOD**	**Units**	**Method No.**
Methyl Tertiary Butyl Ether #					<0.002	mg/kg	TM15/PM10
Benzene #					<0.003	mg/kg	TM15/PM10
Toluene #					<0.003	mg/kg	TM15/PM10
Ethylbenzene #					<0.003	mg/kg	TM15/PM10
p/m-Xylene #					<0.006	mg/kg	TM15/PM10
o-Xylene #					<0.003	mg/kg	TM15/PM10
Surrogate Recovery Toluene D					<0	%	TM15/PM10
EPH (C8-C40) #					<30	mg/kg	TM5/PM8
Mineral Oil (C8-C40)					<30	mg/kg	TM5/PM16
TPH CWG							
Aliphatics							
>C5-C6 #					<0.1	mg/kg	TM36/PM12
>C6-C8 #					<0.1	mg/kg	TM36/PM12
>C8-C10					<0.1	mg/kg	TM36/PM12
>C10-C12 #					<0.2	mg/kg	TM5/PM16
>C12-C16 #					<4	mg/kg	TM5/PM16
>C16-C21 #					<7	mg/kg	TM5/PM16
>C21-C35 #					<7	mg/kg	TM5/PM16
Total aliphatics C5-35					<19	mg/kg	TM5/TM36/PM12/PM16
Total aliphatics C5-C12					<0.5	mg/kg	TM5/TM36/PM12/PM16
Total aliphatics >C12-C35 #					<18	mg/kg	TM5/TM36/PM12/PM16
Aromatics							
>C5-EC7					<0.1	mg/kg	TM36/PM12
>EC7-EC8					<0.1	mg/kg	TM36/PM12
>EC8-EC10 #					<0.1	mg/kg	TM36/PM12
>EC10-EC12 #					<0.2	mg/kg	TM5/PM16
>EC12-EC16 #					<4	mg/kg	TM5/PM16
>EC16-EC21 #					<7	mg/kg	TM5/PM16
>EC21-EC35 #					<7	mg/kg	TM5/PM16
Total aromatics C5-35					<19	mg/kg	TM5/TM36/PM12/PM16
Total aromatics C5-C12					<0.5	mg/kg	TM5/TM36/PM12/PM16
Total aromatics >EC12-EC35 #					<18	mg/kg	TM5/TM36/PM12/PM16
Total aliphatics and aromatics(C5-35)					<38	mg/kg	TM5/TM36/PM12/PM16
MTBE #					<5	ug/kg	TM31/PM12
Benzene #					<5	ug/kg	TM31/PM12
Toluene #					<5	ug/kg	TM31/PM12
Ethylbenzene #					<5	ug/kg	TM31/PM12
m/p-Xylene #					<5	ug/kg	TM31/PM12
o-Xylene #					<5	ug/kg	TM31/PM12

Please see attached notes for all abbreviations and acronyms

Jones Environment

Client Name: [redacted] **port : Solid**

Reference:

Location: **lids:** V=60g VOC jar, J=250g glass jar, T=plastic tub

Contact:

JE Job No.:

J E Sample No.	[redacted]						
Sample ID							
Depth							
COC No / misc							
Containers							
Sample Date							
Sample Type							
Batch Number							
Date of Receipt							

Please see attached notes for all abbreviations and acronyms

	LOD	Units	Method No.
PCB 28 #	<5	ug/kg	TM17/PM8
PCB 52 #	<5	ug/kg	TM17/PM8
PCB 101 #	<5	ug/kg	TM17/PM8
PCB 118 #	<5	ug/kg	TM17/PM8
PCB 138 #	<5	ug/kg	TM17/PM8
PCB 153 #	<5	ug/kg	TM17/PM8
PCB 180 #	<5	ug/kg	TM17/PM8
Total 7 PCBs #	<35	ug/kg	TM17/PM8
Resorcinol	<0.01	mg/kg	TM26/PM21
Catechol	<0.01	mg/kg	TM26/PM21
Phenol #	<0.01	mg/kg	TM26/PM21
m/p-cresol #	<0.02	mg/kg	TM26/PM21
o-cresol #	<0.01	mg/kg	TM26/PM21
Total cresols #	<0.03	mg/kg	TM26/PM21
Xylenols #	<0.06	mg/kg	TM26/PM21
1-naphthol	<0.01	mg/kg	TM26/PM21
2,3,5-trimethyl phenol #	<0.01	mg/kg	TM26/PM21
2-isopropylphenol #	<0.01	mg/kg	TM26/PM21
Total Speciated Phenols HPLC	<0.15	mg/kg	TM26/PM21
Natural Moisture Content	<0.1	%	PM4/PM0
Stone Content >= 10mm	<0.1	%	PM4/PM0
Ammoniacal Nitrogen as NH4	<0.6	mg/kg	TM38/PM20
Chloride #	<2	mg/kg	TM38/PM20
Chloride #	<2	mg/kg	TM38/PM60
Sulphate as SO4 (2:1 Ext) #	<0.0015	g/l	TM38/PM20
Sulphate as SO4 (2:1 Ext) #	<0.0015	g/l	TM38/PM60
Free Cyanide	<0.5	mg/kg	TM89/PM45
Total Cyanide #	<0.5	mg/kg	TM89/PM45
Complex Cyanide	<0.5	mg/kg	TM89/PM45
Total Organic Carbon #	<0.2	%	TM21/PM24
Thiocyanate	<0.6	mg/kg	TM107/PM45
ANC at pH4	<0.03	mol/kg	TM77/PM0
ANC at pH7	<0.03	mol/kg	TM77/PM0
Elemental Sulphur	<1	mg/kg	TM108/PM8
Loss on Ignition #	<1.0	%	TM22/PM0
pH #	<0.01	pH units	TM73/PM11
Sample Type		None	PM13/PM0

Jones Environmental

Client Name: W

Reference: A

Location: B

Contact: Jo

JE Job No.: 13

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

[redacted]

J E Sample No.													
Sample ID	B												
Depth													
COC No / misc													
Containers													
Sample Date	21												
Sample Type													
Batch Number													
Date of Receipt	23												
Sample Colour	Me											None	PM13/PM0
Other Items												None	PM13/PM0

Please see attached notes for all abbreviations and acronyms

Jones Environment

Client Name: [redacted] **CEN 10:1 1 Batch**

Reference:

Location: 0g VOC jar, J=250g glass jar, T=plastic tub

Contact:

JE Job No.:

J E Sample No.	[redacted]						
Sample ID							
Depth							
COC No / misc							
Containers							
Sample Date							
Sample Type							
Batch Number						**LOD**	**Units**	**Method No.**
Date of Receipt							
Dissolved Arsenic #						<0.0009	mg/l	TM30/PM17
Dissolved Cadmium #						<0.00003	mg/l	TM30/PM17
Dissolved Chromium #						<0.0002	mg/l	TM30/PM17
Dissolved Copper #						<0.003	mg/l	TM30/PM17
Dissolved Iron #						<0.0047	mg/l	TM30/PM17
Dissolved Lead #						<0.0004	mg/l	TM30/PM17
Dissolved Nickel #						<0.0002	mg/l	TM30/PM17
Dissolved Selenium #						<0.0012	mg/l	TM30/PM17
Dissolved Zinc #						<0.0015	mg/l	TM30/PM17
Mercury Dissolved by CVAF #						<0.00001	mg/l	TM61/PM38
Total Dissolved Sulphur						<0.01	mg/l	TM30/PM14
PAH MS								
Naphthalene						<0.000014	mg/l	TM4/PM30
Acenaphthylene						<0.000013	mg/l	TM4/PM30
Acenaphthene						<0.000013	mg/l	TM4/PM30
Fluorene						<0.000014	mg/l	TM4/PM30
Phenanthrene						<0.000011	mg/l	TM4/PM30
Anthracene						<0.000013	mg/l	TM4/PM30
Fluoranthene						<0.000012	mg/l	TM4/PM30
Pyrene						<0.000013	mg/l	TM4/PM30
Benzo(a)anthracene						<0.000015	mg/l	TM4/PM30
Chrysene						<0.000011	mg/l	TM4/PM30
Benzo(bk)fluoranthene						<0.000018	mg/l	TM4/PM30
Benzo(a)pyrene						<0.000016	mg/l	TM4/PM30
Indeno(123cd)pyrene						<0.000011	mg/l	TM4/PM30
Dibenzo(ah)anthracene						<0.00001	mg/l	TM4/PM30
Benzo(ghi)perylene						<0.000011	mg/l	TM4/PM30
PAH 16 Total						<0.000195	mg/l	TM4/PM30
PAH Surrogate % Recovery						<0	%	TM4/PM30
Methyl Tertiary Butyl Ether						<0.001	mg/l	TM15/PM10
Benzene						<0.001	mg/l	TM15/PM10
Toluene						<0.002	mg/l	TM15/PM10
Ethylbenzene						<0.002	mg/l	TM15/PM10
p/m-Xylene						<0.003	mg/l	TM15/PM10
o-Xylene						<0.002	mg/l	TM15/PM10
Surrogate Recovery Toluene D8						<0	%	TM15/PM10
EPH (C8-C40)						<0.01	mg/l	TM5/PM30

Please see attached notes for all abbreviations and acronyms

Client Name: [redacted] **EN 10:1 1 Batch**

Reference: A

Location: B g VOC jar, J=250g glass jar, T=plastic tub

Contact: J

JE Job No.: 1

Please see attached notes for all abbreviations and acronyms

J E Sample No.										LOD	Units	Method No.
Sample ID												
Depth												
COC No / misc												
Containers												
Sample Date	1											
Sample Type												
Batch Number												
Date of Receipt	2											
TPH CWG												
Aliphatics												
>C5-C6										<0.005	mg/l	TM36/PM12
>C6-C8										<0.005	mg/l	TM36/PM12
>C8-C10										<0.005	mg/l	TM36/PM12
>C10-C12										<0.005	mg/l	TM5/PM30
>C12-C16										<0.01	mg/l	TM5/PM30
>C16-C21										<0.01	mg/l	TM5/PM30
>C21-C35										<0.01	mg/l	TM5/PM30
Total aliphatics C5-35										<0.01	mg/l	TM5/TM36/PM30
Aromatics												
>C5-EC7										<0.005	mg/l	TM36/PM12
>EC7-EC8										<0.005	mg/l	TM36/PM12
>EC8-EC10										<0.005	mg/l	TM36/PM12
>EC10-EC12										<0.005	mg/l	TM5/PM30
>EC12-EC16										<0.01	mg/l	TM5/PM30
>EC16-EC21										<0.01	mg/l	TM5/PM30
>EC21-EC35										<0.01	mg/l	TM5/PM30
Total aromatics C5-35										<0.01	mg/l	TM5/PM30
Total aliphatics and aromatics(C5-35)										<0.01	mg/l	TM5/TM36/PM30
Resorcinol										<0.0005	mg/l	TM26/PM0
Catechol										<0.0005	mg/l	TM26/PM0
Phenol										<0.0005	mg/l	TM26/PM0
m/p-cresol										<0.0005	mg/l	TM26/PM0
o-cresol										<0.0005	mg/l	TM26/PM0
Total cresols										<0.0005	mg/l	TM26/PM0
Xylenols										<0.0005	mg/l	TM26/PM0
1-naphthol										<0.0005	mg/l	TM26/PM0
2,3,5-trimethyl phenol										<0.0005	mg/l	TM26/PM0
2-isopropylphenol										<0.0005	mg/l	TM26/PM0
Total Speciated Phenols HPLC										<0.005	mg/l	TM26/PM0
Sulphate #										<0.05	mg/l	TM38/PM0
Chloride #										<0.3	mg/l	TM38/PM0
Ammoniacal Nitrogen as NH4 #										<0.03	mg/l	TM38/PM0
Free Cyanide #										<0.01	mg/l	TM89/PM0
Total Cyanide #										<0.005	mg/l	TM89/PM0
Complex Cyanide										<0.01	mg/l	TM89/PM0
Mass of raw test portion											kg	NONE/PM17
Leachant Volume											l	NONE/PM17

Jones Environmenta

Client Name: [redacted] **10:1 1 Batch**

Reference: A

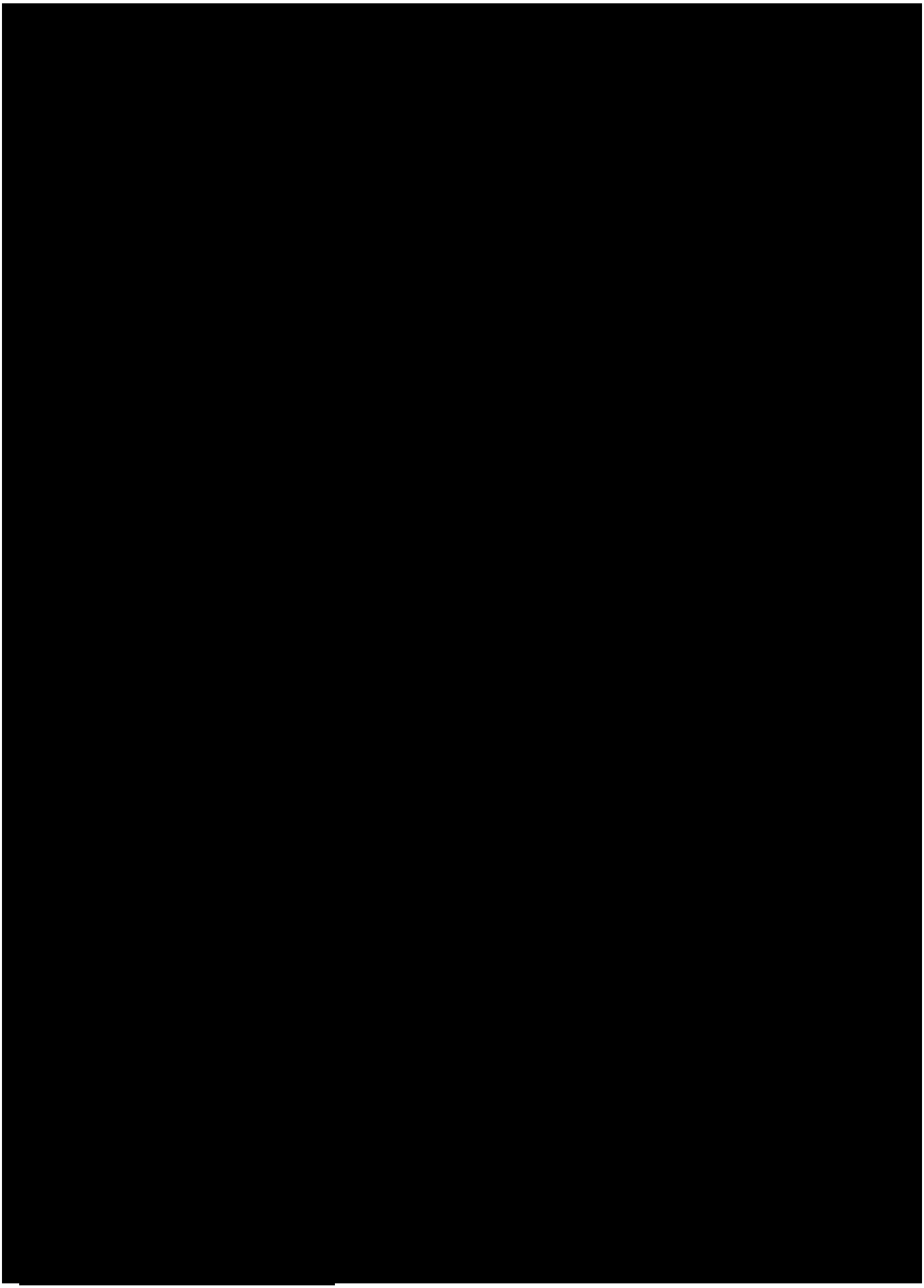
Location: B OC jar, J=250g glass jar, T=plastic tub

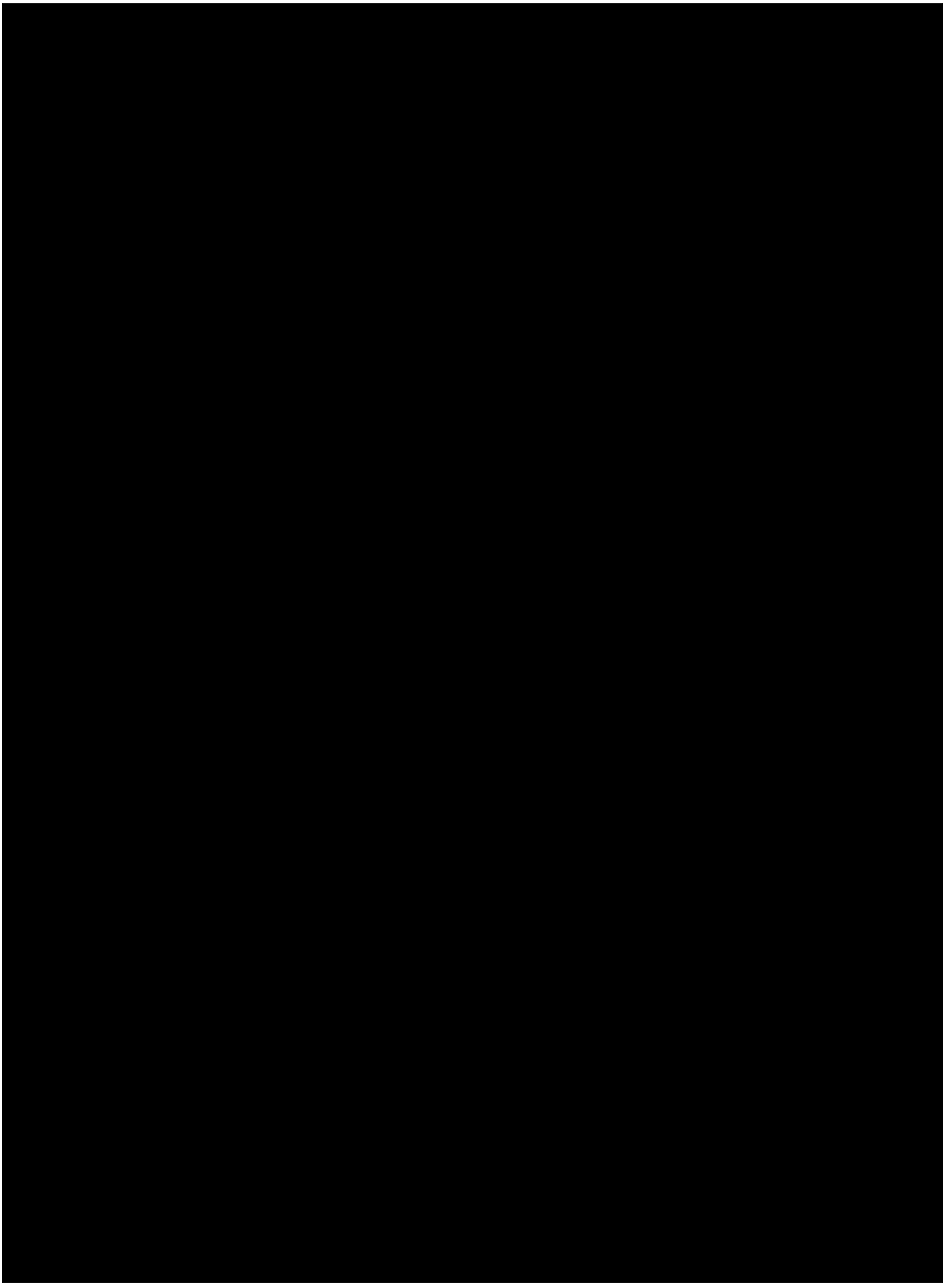
Contact: J

JE Job No.: 1

J E Sample No.											LOD	Units	Method No.
Sample ID													
Depth													
COC No / misc													
Containers													
Sample Date	1												
Sample Type													
Batch Number													
Date of Receipt	2												
Sulphide											<0.3	mg/l	TM106/PM0
Thiocyanate											<0.02	mg/l	TM107/PM0
Dissolved Organic Carbon											<2	mg/l	TM60/PM0
Electrical Conductivity @25C											<2	uS/cm	TM76/PM0
pH											<0.01	pH units	TM73/PM0

Please see attached notes for all abbreviations and acronyms





Client Name: WYG

Reference: A74754-28

Location: BRADFORD ROAD MANCHESTER

Contact: Jonathan Boyes

Note:

Analysis was carried out in accordance with our documented in-house methods PM042 and TM065 and HSG 248 by Stereo and Polarised Light Microscopy using Dispersion Staining Techniques and is covered by our UKAS accreditation. Samples are retained for not less than 6 months from the date of analysis unless specifically requested.

Opinions lie outside the scope of our UKAS accreditation.

Where the sample is not taken by a Jones Environmental Laboratory consultant, Jones Environmental Laboratory cannot be responsible for inaccurate or unrepresentative sampling.

Signed on behalf of Jones Environmental Laboratory:



Gemma Newsome
Asbestos Team Leader

[redacted]

[redacted]

NOTES TO ACCOMPANY ALL SCHEDULES AND REPORTS

JE Job No.: 13/1069

SOILS

Please note we are only MCERTS accredited for sand, loam and clay and any other matrix is outside our scope of accreditation.

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation has been performed on clay, sand and loam, only samples that are predominantly these matrices, or combinations of them will be within our MCERTS scope. If samples are not one of a combination of the above matrices they will not be marked as MCERTS accredited.

It is assumed that you have taken representative samples on site and require analysis on a representative subsample. Stones will generally be included unless we are requested to remove them.

All samples will be discarded one month after the date of reporting, unless we are instructed to the contrary. If we are instructed to keep samples, a storage charge of £1 (1.5 Euros) per sample per month will be applied until we are asked to dispose of them.

If you have not already done so, please send us a purchase order if this is required by your company.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

All analysis is reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected. Samples are dried at 35°C ±5°C unless otherwise stated. Moisture content for CEN Leachate tests are dried at 105°C ±5°C.

WATERS

Please note we are not a Drinking Water Inspectorate (DWI) Approved Laboratory . It is important that detection limits are carefully considered when requesting water analysis.

UKAS accreditation applies to surface water and groundwater and one other matrix which is analysis specific, any other liquids are outside our scope of accreditation

As surface waters require different sample preparation to groundwaters the laboratory must be informed of the water type when submitting samples.

DEVIATING SAMPLES

Samples must be received in a condition appropriate to the requested analyses. All samples should be submitted to the laboratory in suitable containers with sufficient ice packs to sustain an appropriate temperature for the requested analysis. If this is not the case you will be informed and any test results that may be compromised highlighted on your deviating samples report.

SURROGATES

Surrogate compounds are added during the preparation process to monitor recovery of analytes. However low recovery in soils is often due to peat, clay or other organic rich matrices. For waters this can be due to oxidants, surfactants, organic rich sediments or remediation fluids. Acceptable limits for most organic methods are 70 - 130% and for VOCs are 50 - 150%. When surrogate recoveries are outside the performance criteria but the associated AQC passes this is assumed to be due to matrix effect. Results are not surrogate corrected.

NOTE

Data is only accredited when all the requirements of our Quality System have been met. In certain circumstances where the requirements have not been met, the laboratory may issue the data in an interim report but will remove the accreditation, in this instance results should be considered indicative only. Where possible samples will be re-extracted and a final report issued with accredited results. Please do not hesitate to contact the laboratory if further details are required of the circumstances which have led to the removal of accreditation.

ABBREVIATIONS and ACRONYMS USED

#	UKAS accredited.
B	Indicates analyte found in associated method blank.
DR	Dilution required.
M	MCERTS accredited.
NA	Not applicable
NAD	No Asbestos Detected.
ND	None Detected (usually refers to VOC and/SVOC TICs).
NDP	No Determination Possible
SS	Calibrated against a single substance.
SV	Surrogate recovery outside performance criteria. This may be due to a matrix effect.
W	Results expressed on as received basis.
+	AQC failure, accreditation has been removed from this result, if appropriate, see 'Note' on previous page.
++	Result outside calibration range, results should be considered as indicative only and are not accredited.
*	Analysis subcontracted to a Jones Environmental approved laboratory.
CO	Suspected carry over
NFD	No Fibres Detected

JE Job No 13/1069

Test Method No.	Description	Prep Method No. (if appropriate)	Description	UKAS	MCERTS (soils only)	Analysis done on As Received (AR) or Air Dried (AD)	Solid Results expressed on Dry/Wet basis
PM4	Moisture Content	PM0	No Preparation				
PM4	Moisture Content	PM0	No Preparation				WET
TM4	16 PAH by GC-MS, modified USEPA 8270	PM30	Magnetic stirrer extraction			AR	DRY
TM4	16 PAH by GC-MS, modified USEPA 8270	PM30	Magnetic stirrer extraction			AR	
TM4	16 PAH by GC-MS, modified USEPA 8270	PM8	End Over End extraction			AR	DRY
TM4	16 PAH by GC-MS, modified USEPA 8270	PM8	End Over End extraction	Yes		AR	DRY
TM4	16 PAH by GC-MS, modified USEPA 8270	PM8	End Over End extraction			AR	
TM5	EPH by GC-FID, modified USEPA 8015	PM16	Aliphatic/Aromatic fractionation			AR	DRY
TM5	EPH by GC-FID, modified USEPA 8015	PM16	Aliphatic/Aromatic fractionation	Yes		AR	DRY
TM5	EPH by GC-FID, modified USEPA 8015	PM30	Magnetic stirrer extraction			AR	DRY
TM5	EPH by GC-FID, modified USEPA 8015	PM8	End Over End extraction	Yes		AR	DRY
TM5/TM36	TPH CWG by GC-FID	PM12/PM16	CWG GC-FID			AR	DRY
TM5/TM36	TPH CWG by GC-FID	PM12/PM16	CWG GC-FID	Yes		AR	DRY
TM5/TM36	TPH CWG by GC-FID	PM30	Magnetic stirrer extraction			AR	DRY
PM13	Soil Typing for MCERTS	PM0	No Preparation			AR	
TM15	VOC - Target by GC-MS, modified USEPA 8260	PM10	VOC GC-MS			AR	DRY
TM15	VOC - Target by GC-MS, modified USEPA 8260	PM10	VOC GC-MS	Yes		AR	DRY
TM15	VOC - Target by GC-MS, modified USEPA 8260	PM10	VOC GC-MS			AR	
TM17	PCB 7 Congeners and WHO 12 PCBs by GC-MS	PM8	End Over End extraction	Yes		AR	DRY
TM20	TDS, TSS and TS - gravimetric	PM0	No Preparation			AR	DRY
TM21	TOC and TC by Combustion	PM24	Eltra preparation	Yes		AD	DRY
TM22	Loss on Ignition (LOI) - gravimetric	PM0	No Preparation	Yes		AD	DRY
TM26	Phenols by HPLC	PM0	No Preparation			AR	DRY
TM26	Phenols by HPLC	PM21	Methanol : NaOH extraction			AR	DRY
TM26	Phenols by HPLC	PM21	Methanol : NaOH extraction	Yes		AR	DRY
TM27	SO4,Cl,NO3,NO2,F,PO4 by Dionex	PM0	No Preparation			AR	DRY
TM30	Metals by ICP-OES	PM14	Metals by ICP (Waters)			AR	DRY
TM30	Metals by ICP-OES	PM15	Aqua Regia extraction (Soils)	Yes		AD	DRY
TM30	Metals by ICP-OES	PM17	CEN PR12457-2 10:1 1 batch leach	Yes		AR	DRY
TM30	Metals by ICP-OES	PM62	Aqua Regia extraction (Soils) (as received sample)			AR	DRY
TM31	BTEX/MTBE by GC-FID, modified USEPA 8015	PM12	GRO GC-FID			AR	DRY
TM31	BTEX/MTBE by GC-FID, modified USEPA 8015	PM12	GRO GC-FID	Yes		AR	DRY
TM36	GRO by Headspace GC-FID	PM12	GRO GC-FID			AR	DRY
TM36	GRO by Headspace GC-FID	PM12	GRO GC-FID	Yes		AR	DRY
TM38	SO4,Cl,NO3,NO2,F,PO4, Amm N2,ThioCN, Hex Cr by Aquakem	PM0	No Preparation			AR	DRY
TM38	SO4,Cl,NO3,NO2,F,PO4, Amm N2,ThioCN, Hex Cr by Aquakem	PM0	No Preparation	Yes		AR	DRY
TM38	SO4,Cl,NO3,NO2,F,PO4, Amm N2,ThioCN, Hex Cr by Aquakem	PM20	1:2 soil to water extraction	Yes		AD	DRY
TM38	SO4,Cl,NO3,NO2,F,PO4, Amm N2,ThioCN, Hex Cr by Aquakem	PM20	1:2 soil to water extraction			AR	DRY
TM38	SO4,Cl,NO3,NO2,F,PO4, Amm N2,ThioCN, Hex Cr by Aquakem	PM60	1:2 soil to water extraction (as received sample)	Yes		AR	DRY
TM60	TOC/DOC by NDIR	PM0	No Preparation			AR	DRY
TM61	Mercury - low level CVAF	PM38	Mercury CVAF	Yes		AR	DRY
TM65	Asbestos Bulk Identification	PM42	Screening of soils for fibres			AR	
TM65	Asbestos Bulk Identification	PM42	Screening of soils for fibres	Yes		AR	

JE Job No 13/1069

Test Method No.	Description	Prep Method No. (if appropriate)	Description	UKAS	MCERTS (soils only)	Analysis done on As Received (AR) or Air Dried (AD)	Solid Results expressed on Dry/Wet basis
TM73	pH in by Metrohm	PM0	No Preparation			AR	DRY
TM73	pH in by Metrohm	PM11	1:2.5 soil/water extraction	Yes		AR	WET
TM74	Water Soluble Boron by ICP-OES	PM32	Preparation of soils for WSB	Yes		AD	DRY
TM74	Water Soluble Boron by ICP-OES	PM61	Preparation of soils for WSB (as received sample)			AR	DRY
TM76	Electrical Conductivity by Metrohm	PM0	No Preparation			AR	DRY
TM77	ANC at pH4 and pH7 by Metrohm	PM0	No Preparation			AR	WET
TM89	Cyanide by FIA	PM0	No Preparation			AR	DRY
TM89	Cyanide by FIA	PM0	No Preparation	Yes		AR	DRY
TM89	Cyanide by FIA	PM45	Cyanide & Thiocyanate prep for soils			AR	DRY
TM89	Cyanide by FIA	PM45	Cyanide & Thiocyanate prep for soils	Yes		AR	DRY
TM106	Sulphide by CFA	PM0	No Preparation			AR	DRY
TM107	Thiocyanate by CFA	PM0	No Preparation			AR	DRY
TM107	Thiocyanate by CFA	PM45	Cyanide & Thiocyanate prep for soils			AR	DRY
TM108	Elemental Sulphur by HPLC	PM8	End Over End extraction			AR	DRY
NONE	No Method Code	PM17	CEN PR12457-2 10:1 1 batch leach				
NONE	No Method Code	PM18	CEN PR12457-3 10:1 2 batch leach			AR	DRY
NONE	No Method Code	PM4	Moisture Content			AR	

Jones Environmental Laboratory

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Zone 3
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Deeside
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Fax: +44 (0) 1244 833781

WYG
Arndale Court
Arndale Centre
Otley Road
Leeds
LS6 2UJ

No.4225

Attention :	Jonathan Boyes
Date :	31st January, 2013
Your reference :	A74754-28
Our reference :	Test Report 13/1094 Batch 1
Location :	BRADFORD ROAD MANCHESTER
Date samples received :	24th January, 2013
Status :	Final report
Issue :	1

Five samples were received for analysis on 24th January, 2013. Please find attached our Test Report which should be read with notes at the end of the report and should include all sections if reproduced. Interpretations and opinions are outside the scope of any accreditation, and all results relate only to samples supplied.
All analysis is carried out on as received samples and reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected.

Compiled By:

Bruce Leslie
Project Co-ordinator

Bob Millward B.Sc
Principal Chemist

Jones Environmen

Client Name: [redacted]

Reference:

Location:

Contact:

JE Job No.:

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

							LOD	Units	Method No.
J E Sample No									
Sample ID									
Depth									
COC No / misc									
Containers									
Sample Date									
Sample Type									
Batch Number									
Date of Receipt									
Arsenic #							<0.5	mg/kg	TM30/PM15
Arsenic							<0.5	mg/kg	TM30/PM62
Cadmium #							<0.1	mg/kg	TM30/PM15
Cadmium							<0.1	mg/kg	TM30/PM62
Chromium #							<0.5	mg/kg	TM30/PM15
Chromium							<0.5	mg/kg	TM30/PM62
Copper #							<1	mg/kg	TM30/PM15
Copper							<1	mg/kg	TM30/PM62
Lead #							<5	mg/kg	TM30/PM15
Lead							<5	mg/kg	TM30/PM62
Mercury #							<0.1	mg/kg	TM30/PM15
Mercury							<0.1	mg/kg	TM30/PM62
Nickel #							<0.7	mg/kg	TM30/PM15
Nickel							<0.7	mg/kg	TM30/PM62
Selenium #							<1	mg/kg	TM30/PM15
Selenium							<1	mg/kg	TM30/PM62
Water Soluble Boron #							<0.1	mg/kg	TM74/PM32
Water Soluble Boron							<0.1	mg/kg	TM74/PM61
Zinc #							<5	mg/kg	TM30/PM15
Zinc							<5	mg/kg	TM30/PM62
PAH MS									
Naphthalene #							<0.04	mg/kg	TM4/PM8
Acenaphthylene							<0.03	mg/kg	TM4/PM8
Acenaphthene #							<0.05	mg/kg	TM4/PM8
Fluorene #							<0.04	mg/kg	TM4/PM8
Phenanthrene #							<0.03	mg/kg	TM4/PM8
Anthracene #							<0.04	mg/kg	TM4/PM8
Fluoranthene #							<0.03	mg/kg	TM4/PM8
Pyrene #							<0.03	mg/kg	TM4/PM8
Benzo(a)anthracene #							<0.06	mg/kg	TM4/PM8
Chrysene #							<0.02	mg/kg	TM4/PM8
Benzo(bk)fluoranthene #							<0.07	mg/kg	TM4/PM8
Benzo(a)pyrene #							<0.04	mg/kg	TM4/PM8
Indeno(123cd)pyrene #							<0.04	mg/kg	TM4/PM8
Dibenzo(ah)anthracene #							<0.04	mg/kg	TM4/PM8
Benzo(ghi)perylene #							<0.04	mg/kg	TM4/PM8
Coronene							<0.04	mg/kg	TM4/PM8
PAH 16 Total							<0.6	mg/kg	TM4/PM8
PAH 17 Total							<0.64	mg/kg	TM4/PM8
Benzo(b)fluoranthene							<0.05	mg/kg	TM4/PM8
Benzo(k)fluoranthene							<0.02	mg/kg	TM4/PM8
PAH Surrogate % Recovery							<0	%	TM4/PM8

Please see attached notes for all abbreviations and acronyms

Client Name: [redacted]

Reference:

Location:

Contact:

JE Job No.:

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

Please see attached notes for all abbreviations and acronyms

								LOD	Units	Method No.
J E Sample N										
Sample I										
Dept										
COC No / mis										
Container										
Sample Dat										
Sample Typ										
Batch Numbe										
Date of Receip										
Methyl Tertiary Butyl Ether #								<0.002	mg/kg	TM15/PM10
Benzene #								<0.003	mg/kg	TM15/PM10
Toluene #								<0.003	mg/kg	TM15/PM10
Ethylbenzene #								<0.003	mg/kg	TM15/PM10
p/m-Xylene #								<0.006	mg/kg	TM15/PM10
o-Xylene #								<0.003	mg/kg	TM15/PM10
Surrogate Recovery Toluene D								<0	%	TM15/PM10
EPH (C8-C40) #								<30	mg/kg	TM5/PM8
Mineral Oil (C8-C40)								<30	mg/kg	TM5/PM16
TPH CWG										
Aliphatics										
>C5-C6 #								<0.1	mg/kg	TM36/PM12
>C6-C8 #								<0.1	mg/kg	TM36/PM12
>C8-C10								<0.1	mg/kg	TM36/PM12
>C10-C12 #								<0.2	mg/kg	TM5/PM16
>C12-C16 #								<4	mg/kg	TM5/PM16
>C16-C21 #								<7	mg/kg	TM5/PM16
>C21-C35 #								<7	mg/kg	TM5/PM16
Total aliphatics C5-35								<19	mg/kg	TM5/TM36/PM12/PM16
Total aliphatics C5-C12								<0.5	mg/kg	TM5/TM36/PM12/PM16
Total aliphatics >C12-C35 #								<18	mg/kg	TM5/TM36/PM12/PM16
Aromatics										
>C5-EC7								<0.1	mg/kg	TM36/PM12
>EC7-EC8								<0.1	mg/kg	TM36/PM12
>EC8-EC10 #								<0.1	mg/kg	TM36/PM12
>EC10-EC12 #								<0.2	mg/kg	TM5/PM16
>EC12-EC16 #								<4	mg/kg	TM5/PM16
>EC16-EC21 #								<7	mg/kg	TM5/PM16
>EC21-EC35 #								<7	mg/kg	TM5/PM16
Total aromatics C5-35								<19	mg/kg	TM5/TM36/PM12/PM16
Total aromatics C5-C12								<0.5	mg/kg	TM5/TM36/PM12/PM16
Total aromatics >EC12-EC35 #								<18	mg/kg	TM5/TM36/PM12/PM16
Total aliphatics and aromatics(C5-35)								<38	mg/kg	TM5/TM36/PM12/PM16
PCB 28 #								<5	ug/kg	TM17/PM8
PCB 52 #								<5	ug/kg	TM17/PM8
PCB 101 #								<5	ug/kg	TM17/PM8
PCB 118 #								<5	ug/kg	TM17/PM8
PCB 138 #								<5	ug/kg	TM17/PM8
PCB 153 #								<5	ug/kg	TM17/PM8
PCB 180 #								<5	ug/kg	TM17/PM8

Jones Environmen

Client Name: [redacted]

Reference:

Location:

Contact:

JE Job No.:

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

Please see attached notes for all abbreviations and acronyms

	LOD	Units	Method No.
J E Sample N			
Sample I			
Dept			
COC No / mis			
Container			
Sample Dat			
Sample Typ			
Batch Numbe			
Date of Receip			
Total 7 PCBs #	<35	ug/kg	TM17/PM8
Resorcinol	<0.01	mg/kg	TM26/PM21
Catechol	<0.01	mg/kg	TM26/PM21
Phenol #	<0.01	mg/kg	TM26/PM21
m/p-cresol #	<0.02	mg/kg	TM26/PM21
o-cresol #	<0.01	mg/kg	TM26/PM21
Total cresols #	<0.03	mg/kg	TM26/PM21
Xylenols #	<0.06	mg/kg	TM26/PM21
1-naphthol	<0.01	mg/kg	TM26/PM21
2,3,5-trimethyl phenol #	<0.01	mg/kg	TM26/PM21
2-isopropylphenol #	<0.01	mg/kg	TM26/PM21
Total Speciated Phenols HPLC	<0.15	mg/kg	TM26/PM21
Natural Moisture Content	<0.1	%	PM4/PM0
Stone Content >= 10mm	<0.1	%	PM4/PM0
Ammoniacal Nitrogen as NH4	<0.6	mg/kg	TM38/PM20
Chloride #	<2	mg/kg	TM38/PM20
Chloride #	<2	mg/kg	TM38/PM60
Sulphate as SO4 (2:1 Ext) #	<0.0015	g/l	TM38/PM20
Sulphate as SO4 (2:1 Ext) #	<0.0015	g/l	TM38/PM60
Free Cyanide	<0.5	mg/kg	TM89/PM45
Total Cyanide #	<0.5	mg/kg	TM89/PM45
Complex Cyanide	<0.5	mg/kg	TM89/PM45
Total Organic Carbon #	<0.2	%	TM21/PM24
Thiocyanate	<0.6	mg/kg	TM107/PM45
ANC at pH4	<0.03	mol/kg	TM77/PM0
ANC at pH7	<0.03	mol/kg	TM77/PM0
Elemental Sulphur	<1	mg/kg	TM108/PM8
Loss on Ignition #	<1.0	%	TM22/PM0
pH #	<0.01	pH units	TM73/PM11
Sample Type		None	PM13/PM0
Sample Colour		None	PM13/PM0
Other Items		None	PM13/PM0

Jones Environment

Client Name: [redacted]

Reference:

Location: [redacted] ANCHESTER

Contact:

JE Job No.:

Report : CEN 10:1 1 Batch

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

Please see attached notes for all abbreviations and acronyms

										LOD	Units	Method No.
J E Sample No.												
Sample ID												
Depth												
COC No / misc												
Containers												
Sample Date												
Sample Type												
Batch Number												
Date of Receipt												
Dissolved Arsenic #										<0.0009	mg/l	TM30/PM17
Dissolved Cadmium #										<0.00003	mg/l	TM30/PM17
Dissolved Chromium #										<0.0002	mg/l	TM30/PM17
Dissolved Copper #										<0.003	mg/l	TM30/PM17
Dissolved Iron #										<0.0047	mg/l	TM30/PM17
Dissolved Lead #										<0.0004	mg/l	TM30/PM17
Dissolved Nickel #										<0.0002	mg/l	TM30/PM17
Dissolved Selenium #										<0.0012	mg/l	TM30/PM17
Dissolved Zinc #										<0.0015	mg/l	TM30/PM17
Mercury Dissolved by CVAF #										<0.00001	mg/l	TM61/PM38
Total Dissolved Sulphur										<0.01	mg/l	TM30/PM14
PAH MS												
Naphthalene										<0.000014	mg/l	TM4/PM30
Acenaphthylene										<0.000013	mg/l	TM4/PM30
Acenaphthene										<0.000013	mg/l	TM4/PM30
Fluorene										<0.000014	mg/l	TM4/PM30
Phenanthrene										<0.000011	mg/l	TM4/PM30
Anthracene										<0.000013	mg/l	TM4/PM30
Fluoranthene										<0.000012	mg/l	TM4/PM30
Pyrene										<0.000013	mg/l	TM4/PM30
Benzo(a)anthracene										<0.000015	mg/l	TM4/PM30
Chrysene										<0.000011	mg/l	TM4/PM30
Benzo(bk)fluoranthene										<0.000018	mg/l	TM4/PM30
Benzo(a)pyrene										<0.000016	mg/l	TM4/PM30
Indeno(123cd)pyrene										<0.000011	mg/l	TM4/PM30
Dibenzo(ah)anthracene										<0.00001	mg/l	TM4/PM30
Benzo(ghi)perylene										<0.000011	mg/l	TM4/PM30
PAH 16 Total										<0.000195	mg/l	TM4/PM30
PAH Surrogate % Recovery										<0	%	TM4/PM30
Methyl Tertiary Butyl Ether										<0.001	mg/l	TM15/PM10
Benzene										<0.001	mg/l	TM15/PM10
Toluene										<0.002	mg/l	TM15/PM10
Ethylbenzene										<0.002	mg/l	TM15/PM10
p/m-Xylene										<0.003	mg/l	TM15/PM10
o-Xylene										<0.002	mg/l	TM15/PM10
Surrogate Recovery Toluene D8										<0	%	TM15/PM10
EPH (C8-C40)										<0.01	mg/l	TM5/PM30

Jones Environment

Client Name: [redacted]

Reference:

Location: [redacted] D MANCHESTER

Contact:

JE Job No.:

Report : CEN 10:1 1 Batch

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

Please see attached notes for all abbreviations and acronyms

										LOD	Units	Method No.
J E Sample No.	[redacted]											
Sample ID												
Depth												
COC No / misc												
Containers												
Sample Date												
Sample Type												
Batch Number												
Date of Receipt												
TPH CWG												
Aliphatics												
>C5-C6										<0.005	mg/l	TM36/PM12
>C6-C8										<0.005	mg/l	TM36/PM12
>C8-C10										<0.005	mg/l	TM36/PM12
>C10-C12										<0.005	mg/l	TM5/PM30
>C12-C16										<0.01	mg/l	TM5/PM30
>C16-C21										<0.01	mg/l	TM5/PM30
>C21-C35										<0.01	mg/l	TM5/PM30
Total aliphatics C5-35										<0.01	mg/l	TM5/TM36/PM30
Aromatics												
>C5-EC7										<0.005	mg/l	TM36/PM12
>EC7-EC8										<0.005	mg/l	TM36/PM12
>EC8-EC10										<0.005	mg/l	TM36/PM12
>EC10-EC12										<0.005	mg/l	TM5/PM30
>EC12-EC16										<0.01	mg/l	TM5/PM30
>EC16-EC21										<0.01	mg/l	TM5/PM30
>EC21-EC35										<0.01	mg/l	TM5/PM30
Total aromatics C5-35										<0.01	mg/l	TM5/PM30
Total aliphatics and aromatics(C5-35)										<0.01	mg/l	TM5/TM36/PM30
Resorcinol										<0.0005	mg/l	TM26/PM0
Catechol										<0.0005	mg/l	TM26/PM0
Phenol										<0.0005	mg/l	TM26/PM0
m/p-cresol										<0.0005	mg/l	TM26/PM0
o-cresol										<0.0005	mg/l	TM26/PM0
Total cresols										<0.0005	mg/l	TM26/PM0
Xylenols										<0.0005	mg/l	TM26/PM0
1-naphthol										<0.0005	mg/l	TM26/PM0
2,3,5-trimethyl phenol										<0.0005	mg/l	TM26/PM0
2-isopropylphenol										<0.0005	mg/l	TM26/PM0
Total Speciated Phenols HPLC										<0.005	mg/l	TM26/PM0
Sulphate #										<0.05	mg/l	TM38/PM0
Chloride #										<0.3	mg/l	TM38/PM0
Ammoniacal Nitrogen as NH4 #										<0.03	mg/l	TM38/PM0
Free Cyanide #										<0.01	mg/l	TM89/PM0
Total Cyanide #										<0.005	mg/l	TM89/PM0
Complex Cyanide										<0.01	mg/l	TM89/PM0
Mass of raw test portion											kg	NONE/PM17
Leachant Volume											l	NONE/PM17

Jones Environment

Client Name: [redacted]

Reference:

Location: MANCHESTER

Contact:

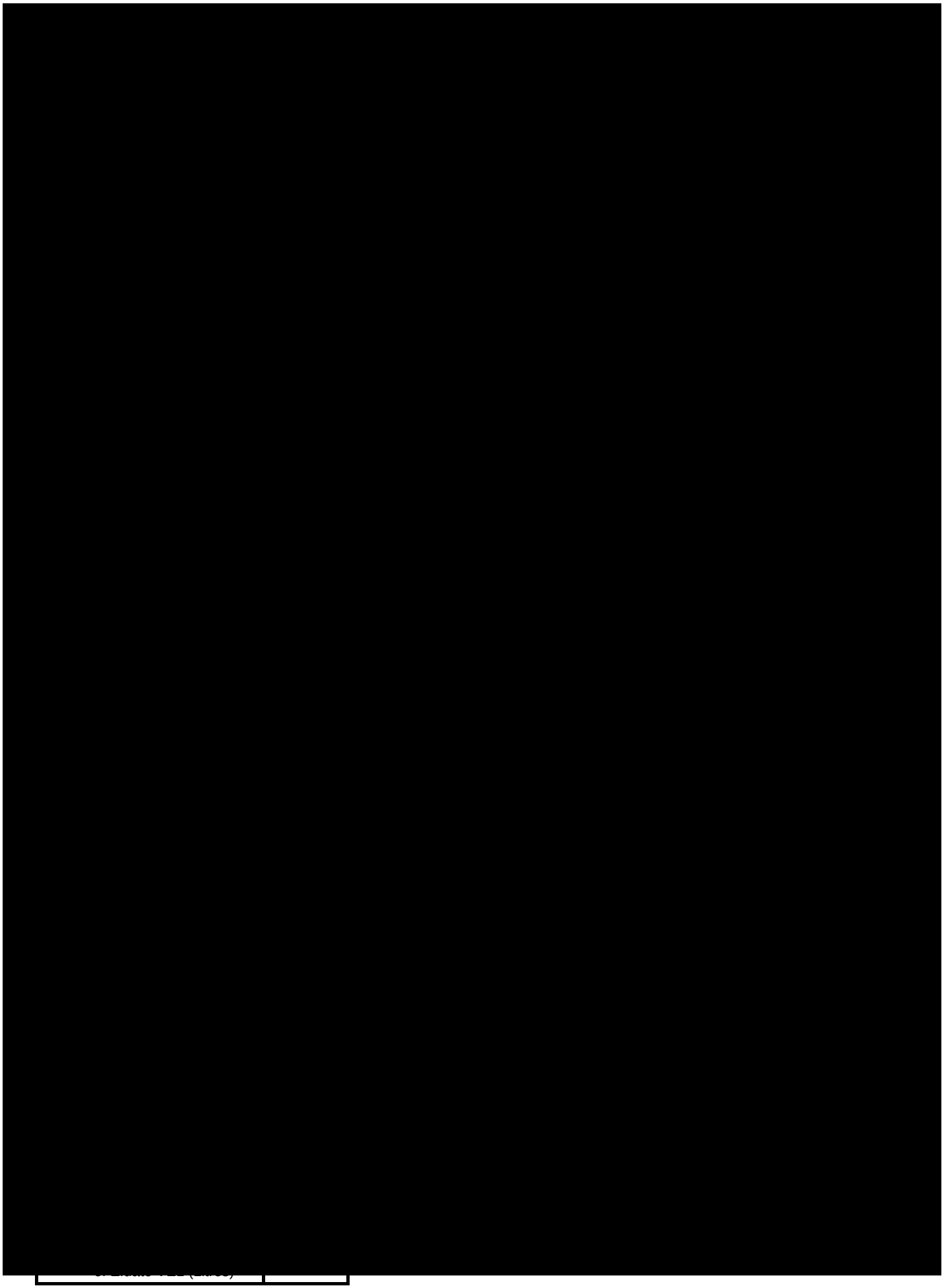
JE Job No.:

Report : CEN 10:1 1 Batch

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

Please see attached notes for all abbreviations and acronyms

										LOD	Units	Method No.
J E Sample No.												
Sample ID												
Depth												
COC No / misc												
Containers												
Sample Date												
Sample Type												
Batch Number												
Date of Receipt												
Sulphide										<0.3	mg/l	TM106/PM0
Thiocyanate										<0.02	mg/l	TM107/PM0
Dissolved Organic Carbon										<2	mg/l	TM60/PM0
Electrical Conductivity @25C										<2	uS/cm	TM76/PM0
pH										<0.01	pH units	TM73/PM0



Client Name: WYG

Reference: A74754-28

Location: BRADFORD ROAD MANCHESTER

Contact: Jonathan Boyes

Note:

Analysis was carried out in accordance with our documented in-house methods PM042 and TM065 and HSG 248 by Stereo and Polarised Light Microscopy using Dispersion Staining Techniques and is covered by our UKAS accreditation. Samples are retained for not less than 6 months from the date of analysis unless specifically requested.

Opinions lie outside the scope of our UKAS accreditation.

Where the sample is not taken by a Jones Environmental Laboratory consultant, Jones Environmental Laboratory cannot be responsible for inaccurate or unrepresentative sampling.

Signed on behalf of Jones Environmental Laboratory:

Gemma Newsome
Asbestos Team Leader

J E Job	Batch	Sample ID	Depth	J E Sample	Date Of Analysis	Description	Asbestos Results
[redacted]							

Client Name: WYG

Reference: A74754-28

Location: BRADFORD ROAD MANCHESTER

Contact: Jonathan Boyes

J E Job No.	Batch	Sample ID	Depth	J E Sample No.	NDP Reason

NOTES TO ACCOMPANY ALL SCHEDULES AND REPORTS

JE Job No.: 13/1094

SOILS

Please note we are only MCERTS accredited for sand, loam and clay and any other matrix is outside our scope of accreditation.

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation has been performed on clay, sand and loam, only samples that are predominantly these matrices, or combinations of them will be within our MCERTS scope. If samples are not one of a combination of the above matrices they will not be marked as MCERTS accredited.

It is assumed that you have taken representative samples on site and require analysis on a representative subsample. Stones will generally be included unless we are requested to remove them.

All samples will be discarded one month after the date of reporting, unless we are instructed to the contrary. If we are instructed to keep samples, a storage charge of £1 (1.5 Euros) per sample per month will be applied until we are asked to dispose of them.

If you have not already done so, please send us a purchase order if this is required by your company.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

All analysis is reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected. Samples are dried at 35°C ±5°C unless otherwise stated. Moisture content for CEN Leachate tests are dried at 105°C ±5°C.

WATERS

Please note we are not a Drinking Water Inspectorate (DWI) Approved Laboratory . It is important that detection limits are carefully considered when requesting water analysis.

UKAS accreditation applies to surface water and groundwater and one other matrix which is analysis specific, any other liquids are outside our scope of accreditation

As surface waters require different sample preparation to groundwaters the laboratory must be informed of the water type when submitting samples.

DEVIATING SAMPLES

Samples must be received in a condition appropriate to the requested analyses. All samples should be submitted to the laboratory in suitable containers with sufficient ice packs to sustain an appropriate temperature for the requested analysis. If this is not the case you will be informed and any test results that may be compromised highlighted on your deviating samples report.

SURROGATES

Surrogate compounds are added during the preparation process to monitor recovery of analytes. However low recovery in soils is often due to peat, clay or other organic rich matrices. For waters this can be due to oxidants, surfactants, organic rich sediments or remediation fluids. Acceptable limits for most organic methods are 70 - 130% and for VOCs are 50 - 150%. When surrogate recoveries are outside the performance criteria but the associated AQC passes this is assumed to be due to matrix effect. Results are not surrogate corrected.

NOTE

Data is only accredited when all the requirements of our Quality System have been met. In certain circumstances where the requirements have not been met, the laboratory may issue the data in an interim report but will remove the accreditation, in this instance results should be considered indicative only. Where possible samples will be re-extracted and a final report issued with accredited results. Please do not hesitate to contact the laboratory if further details are required of the circumstances which have led to the removal of accreditation.

ABBREVIATIONS and ACRONYMS USED

#	UKAS accredited.
B	Indicates analyte found in associated method blank.
DR	Dilution required.
M	MCERTS accredited.
NA	Not applicable
NAD	No Asbestos Detected.
ND	None Detected (usually refers to VOC and/SVOC TICs).
NDP	No Determination Possible
SS	Calibrated against a single substance.
SV	Surrogate recovery outside performance criteria. This may be due to a matrix effect.
W	Results expressed on as received basis.
+	AQC failure, accreditation has been removed from this result, if appropriate, see 'Note' on previous page.
++	Result outside calibration range, results should be considered as indicative only and are not accredited.
*	Analysis subcontracted to a Jones Environmental approved laboratory.
CO	Suspected carry over
NFD	No Fibres Detected

JE Job No 13/1094

Test Method No.	Description	Prep Method No. (if appropriate)	Description	UKAS	MCERTS (soils only)	Analysis done on As Received (AR) or Air Dried (AD)	Solid Results expressed on Dry/Wet basis
PM4	Moisture Content	PM0	No Preparation				
PM4	Moisture Content	PM0	No Preparation				WET
TM4	16 PAH by GC-MS, modified USEPA 8270	PM30	Magnetic stirrer extraction			AR	DRY
TM4	16 PAH by GC-MS, modified USEPA 8270	PM30	Magnetic stirrer extraction			AR	
TM4	16 PAH by GC-MS, modified USEPA 8270	PM8	End Over End extraction			AR	DRY
TM4	16 PAH by GC-MS, modified USEPA 8270	PM8	End Over End extraction	Yes		AR	DRY
TM4	16 PAH by GC-MS, modified USEPA 8270	PM8	End Over End extraction			AR	
TM5	EPH by GC-FID, modified USEPA 8015	PM16	Aliphatic/Aromatic fractionation			AR	DRY
TM5	EPH by GC-FID, modified USEPA 8015	PM16	Aliphatic/Aromatic fractionation	Yes		AR	DRY
TM5	EPH by GC-FID, modified USEPA 8015	PM30	Magnetic stirrer extraction			AR	DRY
TM5	EPH by GC-FID, modified USEPA 8015	PM8	End Over End extraction	Yes		AR	DRY
TM5/TM36	TPH CWG by GC-FID	PM12/PM16	CWG GC-FID			AR	DRY
TM5/TM36	TPH CWG by GC-FID	PM12/PM16	CWG GC-FID	Yes		AR	DRY
TM5/TM36	TPH CWG by GC-FID	PM30	Magnetic stirrer extraction			AR	DRY
PM13	Soil Typing for MCERTS	PM0	No Preparation			AR	
TM15	VOC - Target by GC-MS, modified USEPA 8260	PM10	VOC GC-MS			AR	DRY
TM15	VOC - Target by GC-MS, modified USEPA 8260	PM10	VOC GC-MS	Yes		AR	DRY
TM15	VOC - Target by GC-MS, modified USEPA 8260	PM10	VOC GC-MS			AR	
TM17	PCB 7 Congeners and WHO 12 PCBs by GC-MS	PM8	End Over End extraction	Yes		AR	DRY
TM20	TDS, TSS and TS - gravimetric	PM0	No Preparation			AR	DRY
TM21	TOC and TC by Combustion	PM24	Eltra preparation	Yes		AD	DRY
TM22	Loss on Ignition (LOI) - gravimetric	PM0	No Preparation	Yes		AD	DRY
TM26	Phenols by HPLC	PM0	No Preparation			AR	DRY
TM26	Phenols by HPLC	PM21	Methanol : NaOH extraction			AR	DRY
TM26	Phenols by HPLC	PM21	Methanol : NaOH extraction	Yes		AR	DRY
TM27	SO4,Cl,NO3,NO2,F,PO4 by Dionex	PM0	No Preparation			AR	DRY
TM30	Metals by ICP-OES	PM14	Metals by ICP (Waters)			AR	DRY
TM30	Metals by ICP-OES	PM15	Aqua Regia extraction (Soils)	Yes		AD	DRY
TM30	Metals by ICP-OES	PM17	CEN PR12457-2 10:1 1 batch leach	Yes		AR	DRY
TM30	Metals by ICP-OES	PM62	Aqua Regia extraction (Soils) (as received sample)			AR	DRY
TM36	GRO by Headspace GC-FID	PM12	GRO GC-FID			AR	DRY
TM36	GRO by Headspace GC-FID	PM12	GRO GC-FID	Yes		AR	DRY
TM38	SO4,Cl,NO3,NO2,F,PO4, Amm N2,ThioCN, Hex Cr by Aquakem	PM0	No Preparation			AR	DRY
TM38	SO4,Cl,NO3,NO2,F,PO4, Amm N2,ThioCN, Hex Cr by Aquakem	PM0	No Preparation	Yes		AR	DRY
TM38	SO4,Cl,NO3,NO2,F,PO4, Amm N2,ThioCN, Hex Cr by Aquakem	PM20	1:2 soil to water extraction	Yes		AD	DRY
TM38	SO4,Cl,NO3,NO2,F,PO4, Amm N2,ThioCN, Hex Cr by Aquakem	PM20	1:2 soil to water extraction			AR	DRY
TM38	SO4,Cl,NO3,NO2,F,PO4, Amm N2,ThioCN, Hex Cr by Aquakem	PM60	1:2 soil to water extraction (as received sample)	Yes		AR	DRY
TM60	TOC/DOC by NDIR	PM0	No Preparation			AR	DRY
TM61	Mercury - low level CVAF	PM38	Mercury CVAF	Yes		AR	DRY
TM65	Asbestos Bulk Identification	PM42	Screening of soils for fibres			AR	
TM65	Asbestos Bulk Identification	PM42	Screening of soils for fibres	Yes		AR	
TM73	pH in by Metrohm	PM0	No Preparation			AR	DRY
TM73	pH in by Metrohm	PM11	1:2.5 soil/water extraction	Yes		AR	WET

JE Job No 13/1094

Test Method No.	Description	Prep Method No. (if appropriate)	Description	UKAS	MCERTS (soils only)	Analysis done on As Received (AR) or Air Dried (AD)	Solid Results expressed on Dry/Wet basis
TM74	Water Soluble Boron by ICP-OES	PM32	Preparation of soils for WSB	Yes		AD	DRY
TM74	Water Soluble Boron by ICP-OES	PM61	Preparation of soils for WSB (as received sample)			AR	DRY
TM76	Electrical Conductivity by Metrohm	PM0	No Preparation			AR	DRY
TM77	ANC at pH4 and pH7 by Metrohm	PM0	No Preparation			AR	WET
TM89	Cyanide by FIA	PM0	No Preparation			AR	DRY
TM89	Cyanide by FIA	PM0	No Preparation	Yes		AR	DRY
TM89	Cyanide by FIA	PM45	Cyanide & Thiocyanate prep for soils			AR	DRY
TM89	Cyanide by FIA	PM45	Cyanide & Thiocyanate prep for soils	Yes		AR	DRY
TM106	Sulphide by CFA	PM0	No Preparation			AR	DRY
TM107	Thiocyanate by CFA	PM0	No Preparation			AR	DRY
TM107	Thiocyanate by CFA	PM45	Cyanide & Thiocyanate prep for soils			AR	DRY
TM108	Elemental Sulphur by HPLC	PM8	End Over End extraction			AR	DRY
NONE	No Method Code	PM17	CEN PR12457-2 10:1 1 batch leach				
NONE	No Method Code	PM18	CEN PR12457-3 10:1 2 batch leach			AR	DRY
NONE	No Method Code	PM4	Moisture Content			AR	

Jones Environmental Laboratory

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Fax: +44 (0) 1244 833781

WYG
Arndale Court
Arndale Centre
Otley Road
Leeds
LS6 2UJ

No.4225

Attention :	Jonathan Boyes
Date :	24th January, 2013
Your reference :	A074754.28
Our reference :	Test Report 13/685 Batch 1
Location :	Bradford Road
Date samples received :	11th January, 2013
Status :	Final report
Issue :	1

Thirteen samples were received for analysis on 11th January, 2013. Please find attached our Test Report which should be read with notes at the end of the report and should include all sections if reproduced. Interpretations and opinions are outside the scope of any accreditation, and all results relate only to samples supplied.
All analysis is carried out on as received samples and reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected.

Compiled By:

Phil Sommerton B.Sc
Project Manager

Bob Millward B.Sc
Principal Chemist

Client Name: WYG

Reference: A074754.28

Location: Bradford Road

Contact: Jonathan Boyes

JE Job No.: 13/685

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

J E Sample No.	1-3	4-6	8-11	12-13	14-15	16-18	19-21	22-24	29-31	32-34	LOD	Units	Method No.
Sample ID	RBH101	RBH101	TP105	TP105	TP105	TP104	TP104	TP104	TP101	TP101			
Depth	0.4	1.2	0.6	0.8	0.9	0.2	0.6	0.8	0.45	1.0			
COC No / misc													
Containers	V J T	V J T	V J T	V J	V J	V J T	V J T	V J T	V J T	V J T			
Sample Date	09/01/2013	09/01/2013	10/01/2013	10/01/2013	10/01/2013	10/01/2013	10/01/2013	10/01/2013	10/01/2013	10/01/2013			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Batch Number	1	1	1	1	1	1	1	1	1	1			
Date of Receipt	11/01/2013	11/01/2013	11/01/2013	11/01/2013	11/01/2013	11/01/2013	11/01/2013	11/01/2013	11/01/2013	11/01/2013			
Arsenic #	-	8.8	-	27.1	11.2	9.5	-	7.8	11.2	9.5	<0.5	mg/kg	TM30/PM15
Arsenic	8.9	-	41.3	-	-	-	20.4	-	-	-	<0.5	mg/kg	TM30/PM62
Cadmium #	-	<0.1	-	0.3	0.2	<0.1	-	<0.1	0.2	<0.1	<0.1	mg/kg	TM30/PM15
Cadmium	0.2	-	0.7	-	-	-	<0.1	-	-	-	<0.1	mg/kg	TM30/PM62
Chromium #	-	33.4	-	32.0	31.0	35.2	-	27.3	13.7	22.5	<0.5	mg/kg	TM30/PM15
Chromium	13.0	-	13.7	-	-	-	9.1	-	-	-	<0.5	mg/kg	TM30/PM62
Copper #	-	16	-	66	23	29	-	14	18	14	<1	mg/kg	TM30/PM15
Copper	27	-	62	-	-	-	36	-	-	-	<1	mg/kg	TM30/PM62
Lead #	-	8	-	155	18	18	-	11	210	10	<5	mg/kg	TM30/PM15
Lead	69	-	77	-	-	-	14	-	-	-	<5	mg/kg	TM30/PM62
Mercury #	-	<0.1	-	0.4	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	mg/kg	TM30/PM15
Mercury	<0.1	-	<0.1	-	-	-	<0.1	-	-	-	<0.1	mg/kg	TM30/PM62
Nickel #	-	39.6	-	55.6	61.5	52.7	-	39.2	20.1	30.0	<0.7	mg/kg	TM30/PM15
Nickel	17.1	-	37.4	-	-	-	32.0	-	-	-	<0.7	mg/kg	TM30/PM62
Selenium #	-	<1	-	2	2	1	-	1	<1	<1	<1	mg/kg	TM30/PM15
Selenium	<1	-	<1	-	-	-	2	-	-	-	<1	mg/kg	TM30/PM62
Water Soluble Boron #	-	1.6	-	3.5	3.1	1.4	-	1.3	0.5	0.8	<0.1	mg/kg	TM74/PM32
Water Soluble Boron	0.7	-	1.0	-	-	-	0.8	-	-	-	<0.1	mg/kg	TM74/PM61
Zinc #	-	70	-	111	113	112	-	65	48	55	<5	mg/kg	TM30/PM15
Zinc	67	-	73	-	-	-	28	-	-	-	<5	mg/kg	TM30/PM62
PAH MS													
Naphthalene #	0.04	<0.04	1.46	1.26	<0.04	<0.04	0.68	<0.04	0.41	<0.04	<0.04	mg/kg	TM4/PM8
Acenaphthylene	<0.03	<0.03	3.94	0.79	<0.03	<0.03	0.26	<0.03	2.16	<0.03	<0.03	mg/kg	TM4/PM8
Acenaphthene #	0.10	<0.05	20.44	4.02	0.49	<0.05	0.59	<0.05	0.11	<0.05	<0.05	mg/kg	TM4/PM8
Fluorene #	0.08	<0.04	17.94	3.10	0.13	<0.04	0.59	<0.04	0.34	<0.04	<0.04	mg/kg	TM4/PM8
Phenanthrene #	0.83	<0.03	36.27++	10.78	0.12	<0.03	5.57	0.06	10.14	<0.03	<0.03	mg/kg	TM4/PM8
Anthracene #	0.20	<0.04	13.68	3.64	0.18	<0.04	2.21	<0.04	1.30	<0.04	<0.04	mg/kg	TM4/PM8
Fluoranthene #	1.05	<0.03	21.58	10.24	0.21	<0.03	8.54	0.07	17.18	<0.03	<0.03	mg/kg	TM4/PM8
Pyrene #	0.83	<0.03	15.85	8.42	0.13	<0.03	7.70	0.06	13.10	<0.03	<0.03	mg/kg	TM4/PM8
Benzo(a)anthracene #	0.40	<0.06	5.28	3.51	<0.06	<0.06	5.75	<0.06	4.57	<0.06	<0.06	mg/kg	TM4/PM8
Chrysene #	0.38	<0.02	4.40	3.76	0.03	<0.02	5.77	0.05	6.89	<0.02	<0.02	mg/kg	TM4/PM8
Benzo(bk)fluoranthene #	0.68	<0.07	7.51	4.70	<0.07	<0.07	15.56	0.11	12.85	<0.07	<0.07	mg/kg	TM4/PM8
Benzo(a)pyrene #	0.40	<0.04	4.94	3.09	<0.04	<0.04	11.34	0.08	6.45	<0.04	<0.04	mg/kg	TM4/PM8
Indeno(123cd)pyrene #	0.22	<0.04	3.38	1.60	<0.04	<0.04	8.56	0.06	4.96	<0.04	<0.04	mg/kg	TM4/PM8
Dibenzo(ah)anthracene #	0.04	<0.04	0.42	0.41	<0.04	<0.04	2.10	<0.04	0.96	<0.04	<0.04	mg/kg	TM4/PM8
Benzo(ghi)perylene #	0.21	<0.04	3.01	1.62	<0.04	<0.04	7.95	0.06	4.29	<0.04	<0.04	mg/kg	TM4/PM8
PAH 16 Total	5.5	<0.6	160.1	60.9	1.3	<0.6	83.2	<0.6	85.7	<0.6	<0.6	mg/kg	TM4/PM8
Benzo(b)fluoranthene	0.49	<0.05	5.41	3.38	<0.05	<0.05	11.20	0.08	9.25	<0.05	<0.05	mg/kg	TM4/PM8
Benzo(k)fluoranthene	0.19	<0.02	2.10	1.32	<0.02	<0.02	4.36	0.03	3.60	<0.02	<0.02	mg/kg	TM4/PM8
PAH Surrogate % Recovery	89	103	97	79	101	93	104	95	97	94	<0	%	TM4/PM8
Methyl Tertiary Butyl Ether #	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	mg/kg	TM15/PM10
Benzene #	<0.003	<0.003	0.007	0.013	<0.003	<0.003	0.004	<0.003	<0.003	<0.003	<0.003	mg/kg	TM15/PM10

Please see attached notes for all abbreviations and acronyms

Client Name: WYG

Reference: A074754.28

Location: Bradford Road

Contact: Jonathan Boyes

JE Job No.: 13/685

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

J E Sample No.	1-3	4-6	8-11	12-13	14-15	16-18	19-21	22-24	29-31	32-34	LOD	Units	Method No.
Sample ID	RBH101	RBH101	TP105	TP105	TP105	TP104	TP104	TP104	TP101	TP101			
Depth	0.4	1.2	0.6	0.8	0.9	0.2	0.6	0.8	0.45	1.0			
COC No / misc													
Containers	V J T	V J T	V J T	V J	V J	V J T	V J T	V J T	V J T	V J T			
Sample Date	09/01/2013	09/01/2013	10/01/2013	10/01/2013	10/01/2013	10/01/2013	10/01/2013	10/01/2013	10/01/2013	10/01/2013			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Batch Number	1	1	1	1	1	1	1	1	1	1			
Date of Receipt	11/01/2013	11/01/2013	11/01/2013	11/01/2013	11/01/2013	11/01/2013	11/01/2013	11/01/2013	11/01/2013	11/01/2013			
Toluene #	0.004	0.005	0.008	0.010	<0.003	<0.003	0.006	0.006	<0.003	<0.003	<0.003	mg/kg	TM15/PM10
Ethylbenzene #	<0.003	<0.003	0.009	0.010	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	mg/kg	TM15/PM10
p/m-Xylene #	<0.006	0.012	0.009	0.064	<0.006	<0.006	<0.006	0.009	<0.006	<0.006	<0.006	mg/kg	TM15/PM10
o-Xylene #	<0.003	0.005	0.006	0.037	<0.003	<0.003	<0.003	0.005	<0.003	<0.003	<0.003	mg/kg	TM15/PM10
Surrogate Recovery Toluene D8	99	86	115	90	110	109	117	87	106	108	<0	%	TM15/PM10
EPH (C8-C40) #	379	<30	1222	3231	48	<30	751	<30	570	86	<30	mg/kg	TM5/PM8
TPH CWG													
Aliphatics													
>C5-C6 #	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>C6-C8 #	0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>C8-C10	0.4	0.5	1.3	0.7	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>C10-C12 #	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.7	<0.2	mg/kg	TM5/PM16
>C12-C16 #	<4	<4	<4	16	<4	<4	<4	<4	<4	18	<4	mg/kg	TM5/PM16
>C16-C21 #	<7	<7	<7	17	<7	<7	<7	<7	<7	25	<7	mg/kg	TM5/PM16
>C21-C35 #	31	<7	<7	23	<7	<7	<7	<7	57	23	<7	mg/kg	TM5/PM16
Total aliphatics C5-35	32	<19	<19	57	<19	<19	<19	<19	57	67	<19	mg/kg	TM5/TM36/PM12/PM16
Total aliphatics C5-C12	0.5	0.6	1.3	0.7	<0.5	<0.5	<0.5	<0.5	<0.5	0.7	<0.5	mg/kg	TM5/TM36/PM12/PM16
Total aliphatics >C12-C35 #	31	<18	<18	56	<18	<18	<18	<18	57	66	<18	mg/kg	TM5/TM36/PM12/PM16
Aromatics													
>C5-EC7	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>EC7-EC8	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>EC8-EC10 #	0.1	0.1	0.2	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>EC10-EC12 #	<0.2	<0.2	0.9	12.2	<0.2	<0.2	0.9	<0.2	<0.2	<0.2	<0.2	mg/kg	TM5/PM16
>EC12-EC16 #	<4	<4	60	213	17	<4	9	<4	<4	<4	<4	mg/kg	TM5/PM16
>EC16-EC21 #	<7	<7	116	554	21	<7	53	<7	13	<7	<7	mg/kg	TM5/PM16
>EC21-EC35 #	32	<7	92	806	<7	<7	190	<7	82	<7	<7	mg/kg	TM5/PM16
Total aromatics C5-35	32	<19	269	1585	38	<19	253	<19	95	<19	<19	mg/kg	TM5/TM36/PM12/PM16
Total aromatics C5-C12	<0.5	<0.5	1.1	12.3	<0.5	<0.5	0.9	<0.5	<0.5	<0.5	<0.5	mg/kg	TM5/TM36/PM12/PM16
Total aromatics >EC12-EC35 #	32	<18	268	1573	38	<18	252	<18	95	<18	<18	mg/kg	TM5/TM36/PM12/PM16
Total aliphatics and aromatics(C5-35)	64	<38	269	1642	38	<38	253	<38	152	67	<38	mg/kg	TM5/TM36/PM12/PM16
Resorcinol	<0.01	<0.01	<0.01	<0.10	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	TM26/PM21
Catechol	<0.01	<0.01	<0.01	<0.10	<0.01	<0.01	0.04	<0.01	<0.01	0.01	<0.01	mg/kg	TM26/PM21
Phenol #	<0.01	<0.01	<0.01	<0.10	<0.01	<0.01	0.03	<0.01	<0.01	<0.01	<0.01	mg/kg	TM26/PM21
m/p-cresol #	0.06	<0.02	<0.02	<0.20	<0.02	0.03	0.03	<0.02	<0.02	<0.02	<0.02	mg/kg	TM26/PM21
o-cresol #	<0.01	<0.01	<0.01	<0.10	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	TM26/PM21
Total cresols #	0.06	<0.03	<0.03	<0.30	<0.03	0.03	0.03	<0.03	<0.03	<0.03	<0.03	mg/kg	TM26/PM21
Xylenols #	<0.06	<0.06	<0.06	<0.60	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	mg/kg	TM26/PM21
1-naphthol	<0.01	<0.01	<0.01	<0.10	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	TM26/PM21
2,3,5-trimethyl phenol #	<0.01	<0.01	<0.01	<0.10	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	TM26/PM21
2-isopropylphenol #	<0.01	<0.01	<0.01	<0.10	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	TM26/PM21

Please see attached notes for all abbreviations and acronyms

Jones Environmental Laboratory

Client Name: WYG

Reference: A074754.28

Location: Bradford Road

Contact: Jonathan Boyes

JE Job No.: 13/685

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

Please see attached notes for all abbreviations and acronyms

J E Sample No.	1-3	4-6	8-11	12-13	14-15	16-18	19-21	22-24	29-31	32-34	LOD	Units	Method No.
Sample ID	RBH101	RBH101	TP105	TP105	TP105	TP104	TP104	TP104	TP101	TP101			
Depth	0.4	1.2	0.6	0.8	0.9	0.2	0.6	0.8	0.45	1.0			
COC No / misc													
Containers	V J T	V J T	V J T	V J	V J	V J T	V J T	V J T	V J T	V J T			
Sample Date	09/01/2013	09/01/2013	10/01/2013	10/01/2013	10/01/2013	10/01/2013	10/01/2013	10/01/2013	10/01/2013	10/01/2013			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Batch Number	1	1	1	1	1	1	1	1	1	1			
Date of Receipt	11/01/2013	11/01/2013	11/01/2013	11/01/2013	11/01/2013	11/01/2013	11/01/2013	11/01/2013	11/01/2013	11/01/2013			
Total Speciated Phenols HPLC	<0.15	<0.15	<0.15	<1.50	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	mg/kg	TM26/PM21
Natural Moisture Content	NDP	18.1	NDP	41.7	28.7	26.0	NDP	18.2	12.0	13.4	<0.1	%	PM4/PM0
Stone Content >= 10mm	NDP	0.1	NDP	<0.1	<0.1	0.5	NDP	3.9	46.0	<0.1	<0.1	%	PM4/PM0
Ammoniacal Nitrogen as NH4	<0.6	<0.6	1.3	5.1	1.3	<0.6	1.6	0.9	<0.6	<0.6	<0.6	mg/kg	TM38/PM20
Chloride #	-	21	-	82	40	14	-	32	11	16	<2	mg/kg	TM38/PM20
Chloride #	9	-	61	-	-	-	84	-	-	-	<2	mg/kg	TM38/PM60
Sulphate as SO4 (2:1 Ext) #	-	0.0696	-	0.0679	0.0091	0.0074	-	0.0445	0.0116	0.0167	<0.0015	g/l	TM38/PM20
Sulphate as SO4 (2:1 Ext) #	0.1073	-	0.0396	-	-	-	0.0544	-	-	-	<0.0015	g/l	TM38/PM60
Free Cyanide	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	mg/kg	TM89/PM45
Total Cyanide #	<0.5	<0.5	0.9	<0.5	0.6	<0.5	<0.5	2.7	<0.5	<0.5	<0.5	mg/kg	TM89/PM45
Complex Cyanide	<0.5	<0.5	0.9	<0.5	0.6	<0.5	<0.5	2.7	<0.5	<0.5	<0.5	mg/kg	TM89/PM45
Total Organic Carbon #	NDP	1.2	-	-	1.0	-	-	1.0	4.7	0.7	<0.2	%	TM21/PM24
Thiocyanate	<0.6	<0.6	2.9	5.4	1.5	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	mg/kg	TM107/PM45
Elemental Sulphur	<1	<1	78	163	4	<1	29	<1	6	<1	<1	mg/kg	TM108/PM8
Loss on Ignition #	NDP	4.4	NDP	13.7	5.5	5.4	NDP	4.0	3.4	3.4	<1.0	%	TM22/PM0
pH #	8.62	8.33	9.99	7.60	7.32	7.76	9.96	8.33	8.24	8.25	<0.01	pH units	TM73/PM11
Sample Type	Clay	Clay	Clay	Clay	Clay	Clay	Loamy Sand	Clay	Clay	Clay		None	PM13/PM0
Sample Colour	Medium Brown	Medium Brown	Medium Brown	Medium Brown	Medium Brown	Medium Brown	Medium Brown	Medium Brown	Medium Brown	Medium Brown		None	PM13/PM0
Other Items	stones and sand	none	stones	none	none	none	stones	none	stones	none		None	PM13/PM0

Jones Environmental Laboratory

Client Name:	WYG
Reference:	A074754.28
Location:	Bradford Road
Contact:	Jonathan Boyes
JE Job No.:	13/685

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

Please see attached notes for all abbreviations and acronyms

J E Sample No.	35-36										LOD	Units	Method No.
Sample ID	RBH101												
Depth	18.8												
COC No / misc													
Containers	V J												
Sample Date	10/01/2013												
Sample Type	Soil												
Batch Number	1												
Date of Receipt	11/01/2013												
Arsenic #	20.7										<0.5	mg/kg	TM30/PM15
Arsenic	-										<0.5	mg/kg	TM30/PM62
Cadmium #	0.2										<0.1	mg/kg	TM30/PM15
Cadmium	-										<0.1	mg/kg	TM30/PM62
Chromium #	22.9										<0.5	mg/kg	TM30/PM15
Chromium	-										<0.5	mg/kg	TM30/PM62
Copper #	23										<1	mg/kg	TM30/PM15
Copper	-										<1	mg/kg	TM30/PM62
Lead #	14										<5	mg/kg	TM30/PM15
Lead	-										<5	mg/kg	TM30/PM62
Mercury #	<0.1										<0.1	mg/kg	TM30/PM15
Mercury	-										<0.1	mg/kg	TM30/PM62
Nickel #	51.1										<0.7	mg/kg	TM30/PM15
Nickel	-										<0.7	mg/kg	TM30/PM62
Selenium #	<1										<1	mg/kg	TM30/PM15
Selenium	-										<1	mg/kg	TM30/PM62
Water Soluble Boron #	0.8										<0.1	mg/kg	TM74/PM32
Water Soluble Boron	-										<0.1	mg/kg	TM74/PM61
Zinc #	115										<5	mg/kg	TM30/PM15
Zinc	-										<5	mg/kg	TM30/PM62
PAH MS													
Naphthalene #	<0.04										<0.04	mg/kg	TM4/PM8
Acenaphthylene	<0.03										<0.03	mg/kg	TM4/PM8
Acenaphthene #	<0.05										<0.05	mg/kg	TM4/PM8
Fluorene #	<0.04										<0.04	mg/kg	TM4/PM8
Phenanthrene #	<0.03										<0.03	mg/kg	TM4/PM8
Anthracene #	<0.04										<0.04	mg/kg	TM4/PM8
Fluoranthene #	<0.03										<0.03	mg/kg	TM4/PM8
Pyrene #	<0.03										<0.03	mg/kg	TM4/PM8
Benzo(a)anthracene #	<0.06										<0.06	mg/kg	TM4/PM8
Chrysene #	<0.02										<0.02	mg/kg	TM4/PM8
Benzo(bk)fluoranthene #	<0.07										<0.07	mg/kg	TM4/PM8
Benzo(a)pyrene #	<0.04										<0.04	mg/kg	TM4/PM8
Indeno(123cd)pyrene #	<0.04										<0.04	mg/kg	TM4/PM8
Dibenzo(ah)anthracene #	<0.04										<0.04	mg/kg	TM4/PM8
Benzo(ghi)perylene #	<0.04										<0.04	mg/kg	TM4/PM8
PAH 16 Total	<0.6										<0.6	mg/kg	TM4/PM8
Benzo(b)fluoranthene	<0.05										<0.05	mg/kg	TM4/PM8
Benzo(k)fluoranthene	<0.02										<0.02	mg/kg	TM4/PM8
PAH Surrogate % Recovery	99										<0	%	TM4/PM8
Methyl Tertiary Butyl Ether #	<0.002										<0.002	mg/kg	TM15/PM10
Benzene #	<0.003										<0.003	mg/kg	TM15/PM10

Client Name: WYG

Reference: A074754.28

Location: Bradford Road

Contact: Jonathan Boyes

JE Job No.: 13/685

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

Please see attached notes for all abbreviations and acronyms

J E Sample No.	35-36												
Sample ID	RBH101												
Depth	18.8												
COC No / misc													
Containers	V J												
Sample Date	10/01/2013												
Sample Type	Soil												
Batch Number	1												
Date of Receipt	11/01/2013												
												LOD	**Units**	**Method No.**
Toluene #	<0.003											<0.003	mg/kg	TM15/PM10
Ethylbenzene #	<0.003											<0.003	mg/kg	TM15/PM10
p/m-Xylene #	<0.006											<0.006	mg/kg	TM15/PM10
o-Xylene #	<0.003											<0.003	mg/kg	TM15/PM10
Surrogate Recovery Toluene D8	96											<0	%	TM15/PM10
EPH (C8-C40) #	147											<30	mg/kg	TM5/PM8
TPH CWG														
Aliphatics														
>C5-C6 #	<0.1											<0.1	mg/kg	TM36/PM12
>C6-C8 #	<0.1											<0.1	mg/kg	TM36/PM12
>C8-C10	0.1											<0.1	mg/kg	TM36/PM12
>C10-C12 #	<0.2											<0.2	mg/kg	TM5/PM16
>C12-C16 #	<4											<4	mg/kg	TM5/PM16
>C16-C21 #	<7											<7	mg/kg	TM5/PM16
>C21-C35 #	36											<7	mg/kg	TM5/PM16
Total aliphatics C5-35	36											<19	mg/kg	TM5/TM36/PM12/PM16
Total aliphatics C5-C12	<0.5											<0.5	mg/kg	TM5/TM36/PM12/PM16
Total aliphatics >C12-C35 #	36											<18	mg/kg	TM5/TM36/PM12/PM16
Aromatics														
>C5-EC7	<0.1											<0.1	mg/kg	TM36/PM12
>EC7-EC8	<0.1											<0.1	mg/kg	TM36/PM12
>EC8-EC10 #	<0.1											<0.1	mg/kg	TM36/PM12
>EC10-EC12 #	<0.2											<0.2	mg/kg	TM5/PM16
>EC12-EC16 #	<4											<4	mg/kg	TM5/PM16
>EC16-EC21 #	<7											<7	mg/kg	TM5/PM16
>EC21-EC35 #	<7											<7	mg/kg	TM5/PM16
Total aromatics C5-35	<19											<19	mg/kg	TM5/TM36/PM12/PM16
Total aromatics C5-C12	<0.5											<0.5	mg/kg	TM5/TM36/PM12/PM16
Total aromatics >EC12-EC35 #	<18											<18	mg/kg	TM5/TM36/PM12/PM16
Total aliphatics and aromatics(C5-35)	<38											<38	mg/kg	TM5/TM36/PM12/PM16
Resorcinol	<0.01											<0.01	mg/kg	TM26/PM21
Catechol	<0.01											<0.01	mg/kg	TM26/PM21
Phenol #	<0.01											<0.01	mg/kg	TM26/PM21
m/p-cresol #	<0.02											<0.02	mg/kg	TM26/PM21
o-cresol #	<0.01											<0.01	mg/kg	TM26/PM21
Total cresols #	<0.03											<0.03	mg/kg	TM26/PM21
Xylenols #	<0.06											<0.06	mg/kg	TM26/PM21
1-naphthol	<0.01											<0.01	mg/kg	TM26/PM21
2,3,5-trimethyl phenol #	<0.01											<0.01	mg/kg	TM26/PM21
2-isopropylphenol #	<0.01											<0.01	mg/kg	TM26/PM21

Jones Environmental Laboratory

Client Name: WYG

Reference: A074754.28

Location: Bradford Road

Contact: Jonathan Boyes

JE Job No.: 13/685

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

Please see attached notes for all abbreviations and acronyms

J E Sample No.	35-36												
Sample ID	RBH101												
Depth	18.8												
COC No / misc													
Containers	V J												
Sample Date	10/01/2013												
Sample Type	Soil												
Batch Number	1												
Date of Receipt	11/01/2013												
Total Speciated Phenols HPLC	<0.15											<0.15	mg/kg	TM26/PM21
Natural Moisture Content	12.4											<0.1	%	PM4/PM0
Stone Content >= 10mm	<0.1											<0.1	%	PM4/PM0
Ammoniacal Nitrogen as NH4	1.5											<0.6	mg/kg	TM38/PM20
Chloride #	20											<2	mg/kg	TM38/PM20
Chloride #	-											<2	mg/kg	TM38/PM60
Sulphate as SO4 (2:1 Ext) #	0.0538											<0.0015	g/l	TM38/PM20
Sulphate as SO4 (2:1 Ext) #	-											<0.0015	g/l	TM38/PM60
Free Cyanide	<0.5											<0.5	mg/kg	TM89/PM45
Total Cyanide #	<0.5											<0.5	mg/kg	TM89/PM45
Complex Cyanide	<0.5											<0.5	mg/kg	TM89/PM45
Total Organic Carbon #	0.7											<0.2	%	TM21/PM24
Thiocyanate	<0.6											<0.6	mg/kg	TM107/PM45
Elemental Sulphur	<1											<1	mg/kg	TM108/PM8
Loss on Ignition #	4.9											<1.0	%	TM22/PM0
pH #	8.20											<0.01	pH units	TM73/PM11
Sample Type	Clay												None	PM13/PM0
Sample Colour	Medium Grey												None	PM13/PM0
Other Items	none												None	PM13/PM0

Client Name: WYG

Reference: A074754.28

Location: Bradford Road

Contact: Jonathan Boyes

JE Job No.: 13/685

Report : NRA Leachate

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

Please see attached notes for all abbreviations and acronyms

J E Sample No.	8-11	29-31									LOD	Units	Method No.
Sample ID	TP105	TP101											
Depth	0.6	0.45											
COC No / misc													
Containers	V J T	V J T											
Sample Date	10/01/2013	10/01/2013											
Sample Type	Soil	Soil											
Batch Number	1	1											
Date of Receipt	11/01/2013	11/01/2013											
Dissolved Arsenic	0.0329	<0.0009									<0.0009	mg/l	TM30/PM14
Dissolved Cadmium	0.00009	0.00010									<0.00003	mg/l	TM30/PM14
Dissolved Chromium	0.0010	0.0009									<0.0002	mg/l	TM30/PM14
Dissolved Copper	<0.003	<0.003									<0.003	mg/l	TM30/PM14
Dissolved Iron	0.0606	0.2839									<0.0047	mg/l	TM30/PM14
Dissolved Lead	0.0023	0.0052									<0.0004	mg/l	TM30/PM14
Dissolved Nickel	0.0019	0.0004									<0.0002	mg/l	TM30/PM14
Dissolved Selenium	0.0043	<0.0012									<0.0012	mg/l	TM30/PM14
Dissolved Zinc	0.0018	0.0022									<0.0015	mg/l	TM30/PM14
Mercury Dissolved by CVAF	<0.00001	0.00001									<0.00001	mg/l	TM61/PM38
Total Dissolved Sulphur	8.90	1.04									<0.01	mg/l	TM30/PM14
PAH MS													
Naphthalene	0.005490	0.000130									<0.000014	mg/l	TM4/PM30
Acenaphthylene	0.000620	0.000020									<0.000013	mg/l	TM4/PM30
Acenaphthene	0.028260 ++	0.000020									<0.000013	mg/l	TM4/PM30
Fluorene	0.014350 ++	0.000020									<0.000014	mg/l	TM4/PM30
Phenanthrene	0.008290 ++	0.000060									<0.000011	mg/l	TM4/PM30
Anthracene	0.003610	0.000020									<0.000013	mg/l	TM4/PM30
Fluoranthene	0.001910	0.000100									<0.000012	mg/l	TM4/PM30
Pyrene	0.001130	0.000090									<0.000013	mg/l	TM4/PM30
Benzo(a)anthracene	0.000270	0.000050									<0.000015	mg/l	TM4/PM30
Chrysene	0.000250	0.000080									<0.000011	mg/l	TM4/PM30
Benzo(bk)fluoranthene	0.000190	0.000170									<0.000018	mg/l	TM4/PM30
Benzo(a)pyrene	0.000090	0.000080									<0.000016	mg/l	TM4/PM30
Indeno(123cd)pyrene	0.000050	0.000130									<0.000011	mg/l	TM4/PM30
Dibenzo(ah)anthracene	0.00001	0.00003									<0.00001	mg/l	TM4/PM30
Benzo(ghi)perylene	0.000030	0.000080									<0.000011	mg/l	TM4/PM30
PAH 16 Total	0.064550	0.001080									<0.000195	mg/l	TM4/PM30
PAH Surrogate % Recovery	85	98									<0	%	TM4/PM30
Methyl Tertiary Butyl Ether	<0.001	<0.001									<0.001	mg/l	TM15/PM10
Benzene	<0.001	<0.001									<0.001	mg/l	TM15/PM10
Toluene	<0.002	<0.002									<0.002	mg/l	TM15/PM10
Ethylbenzene	<0.002	<0.002									<0.002	mg/l	TM15/PM10
p/m-Xylene	<0.003	<0.003									<0.003	mg/l	TM15/PM10
o-Xylene	<0.002	<0.002									<0.002	mg/l	TM15/PM10
Surrogate Recovery Toluene D8	113	115									<0	%	TM15/PM10
Surrogate Recovery 4-Bromofluorobenzene	100	99									<0	%	TM15/PM10

Client Name: WYG

Reference: A074754.28

Location: Bradford Road

Contact: Jonathan Boyes

JE Job No.: 13/685

Report : NRA Leachate

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

Please see attached notes for all abbreviations and acronyms

J E Sample No.	8-11	29-31									LOD	Units	Method No.
Sample ID	TP105	TP101											
Depth	0.6	0.45											
COC No / misc													
Containers	V J T	V J T											
Sample Date	10/01/2013	10/01/2013											
Sample Type	Soil	Soil											
Batch Number	1	1											
Date of Receipt	11/01/2013	11/01/2013											
TPH CWG													
Aliphatics													
>C5-C6	<5	<5									<5	ug/l	TM36/PM12
>C6-C8	<5	<5									<5	ug/l	TM36/PM12
>C8-C10	<5	<5									<5	ug/l	TM36/PM12
>C10-C12	<5	<5									<5	ug/l	TM5/PM30
>C12-C16	288	<10									<10	ug/l	TM5/PM30
>C16-C21	264	<10									<10	ug/l	TM5/PM30
>C21-C35	<10	<10									<10	ug/l	TM5/PM30
Total aliphatics C5-35	552	<10									<10	ug/l	TM5/TM36/PM30
Aromatics													
>C5-EC7	<5	<5									<5	ug/l	TM36/PM12
>EC7-EC8	<5	<5									<5	ug/l	TM36/PM12
>EC8-EC10	<5	<5									<5	ug/l	TM36/PM12
>EC10-EC12	17	<5									<5	ug/l	TM5/PM30
>EC12-EC16	1868	<10									<10	ug/l	TM5/PM30
>EC16-EC21	3579	<10									<10	ug/l	TM5/PM30
>EC21-EC35	1250	<10									<10	ug/l	TM5/PM30
Total aromatics C5-35	6714	<10									<10	ug/l	TM5/PM30
Total aliphatics and aromatics(C5-35)	7266	<10									<10	ug/l	TM5/TM36/PM30
EPH (C8-C40)	18.43	<0.01									<0.01	mg/l	TM5/PM30
Resorcinol	<0.0005	<0.0005									<0.0005	mg/l	TM26/PM0
Catechol	<0.0005	<0.0005									<0.0005	mg/l	TM26/PM0
Phenol	0.0028	0.0033									<0.0005	mg/l	TM26/PM0
m/p-cresol	<0.0005	<0.0005									<0.0005	mg/l	TM26/PM0
o-cresol	<0.0005	<0.0005									<0.0005	mg/l	TM26/PM0
Total cresols	<0.0005	<0.0005									<0.0005	mg/l	TM26/PM0
Xylenols	<0.0005	<0.0005									<0.0005	mg/l	TM26/PM0
1-naphthol	<0.0005	<0.0005									<0.0005	mg/l	TM26/PM0
2,3,5-trimethyl phenol	<0.0005	<0.0005									<0.0005	mg/l	TM26/PM0
2-isopropylphenol	<0.0005	<0.0005									<0.0005	mg/l	TM26/PM0
Total Speciated Phenols HPLC	<0.005	<0.005									<0.005	mg/l	TM26/PM0
Chloride	0.6	<0.3									<0.3	mg/l	TM27/PM0
Sulphate	7.01	1.63									<0.05	mg/l	TM27/PM0
Free Cyanide	<0.01	<0.01									<0.01	mg/l	TM89/PM0
Total Cyanide	0.016	0.032									<0.005	mg/l	TM89/PM0
Complex Cyanide	0.02	0.03									<0.01	mg/l	TM89/PM0
Ammoniacal Nitrogen as NH4	0.21	<0.03									<0.03	mg/l	TM38/PM0

Jones Environmental Laboratory

Client Name: WYG

Reference: A074754.28

Location: Bradford Road

Contact: Jonathan Boyes

JE Job No.: 13/685

Report : NRA Leachate

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

Please see attached notes for all abbreviations and acronyms

J E Sample No.	8-11	29-31									LOD	Units	Method No.
Sample ID	TP105	TP101											
Depth	0.6	0.45											
COC No / misc													
Containers	V J T	V J T											
Sample Date	10/01/2013	10/01/2013											
Sample Type	Soil	Soil											
Batch Number	1	1											
Date of Receipt	11/01/2013	11/01/2013											
Sulphide	<0.3	<0.3									<0.3	mg/l	TM106/PM0
Thiocyanate	<0.02	<0.02									<0.02	mg/l	TM107/PM0
Dissolved Organic Carbon	9	6									<2	mg/l	TM60/PM0
Electrical Conductivity @25C	115	106									<2	uS/cm	TM76/PM0
pH	9.90	9.16									<0.01	pH units	TM73/PM0

Client Name: WYG

Reference: A074754.28

Location: Bradford Road

Contact: Jonathan Boyes

Note:

Analysis was carried out in accordance with our documented in-house methods PM042 and TM065 and HSG 248 by Stereo and Polarised Light Microscopy using Dispersion Staining Techniques and is covered by our UKAS accreditation. Samples are retained for not less than 6 months from the date of analysis unless specifically requested.

Opinions lie outside the scope of our UKAS accreditation.

Where the sample is not taken by a Jones Environmental Laboratory consultant, Jones Environmental Laboratory cannot be responsible for inaccurate or unrepresentative sampling.

Signed on behalf of Jones Environmental Laboratory:



Gemma Newsome
Asbestos Team Leader

J E Job No.	Batch	Sample ID	Depth	J E Sample No.	Date Of Analysis	Description	Asbestos Results
13/685	1	RBH101	0.4	1-3	15/01/2013	Soil/Fibre Bundle	Chrysotile
13/685	1	TP105	0.4	7	15/01/2013	Soil	NAD
13/685	1	TP105	0.6	8-11	15/01/2013	Soil/Fibre Bundle	Chrysotile
13/685	1	TP104	0.2	16-18	22/01/2013	Soil	NAD
13/685	1	TP104	0.6	19-21	15/01/2013	Soil/Trace Fibres	Chrysotile
13/685	1	TP101	0.3	25	15/01/2013	Soil	NAD

Client Name: WYG

Reference: A074754.28

Location: Bradford Road

Contact: Jonathan Boyes

J E Job No.	Batch	Sample ID	Depth	J E Sample No.	NDP Reason
13/685	1	RBH101	0.4	1-3	Asbestos detected in sample
13/685	1	TP105	0.6	8-11	Asbestos detected in sample
13/685	1	TP104	0.6	19-21	Asbestos detected in sample

NOTES TO ACCOMPANY ALL SCHEDULES AND REPORTS

JE Job No.: 13/685

SOILS

Please note we are only MCERTS accredited for sand, loam and clay and any other matrix is outside our scope of accreditation.

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation has been performed on clay, sand and loam, only samples that are predominantly these matrices, or combinations of them will be within our MCERTS scope. If samples are not one of a combination of the above matrices they will not be marked as MCERTS accredited.

It is assumed that you have taken representative samples on site and require analysis on a representative subsample. Stones will generally be included unless we are requested to remove them.

All samples will be discarded one month after the date of reporting, unless we are instructed to the contrary. If we are instructed to keep samples, a storage charge of £1 (1.5 Euros) per sample per month will be applied until we are asked to dispose of them.

If you have not already done so, please send us a purchase order if this is required by your company.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

All analysis is reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected. Samples are dried at 35°C ±5°C unless otherwise stated. Moisture content for CEN Leachate tests are dried at 105°C ±5°C.

WATERS

Please note we are not a Drinking Water Inspectorate (DWI) Approved Laboratory . It is important that detection limits are carefully considered when requesting water analysis.

UKAS accreditation applies to surface water and groundwater and one other matrix which is analysis specific, any other liquids are outside our scope of accreditation

As surface waters require different sample preparation to groundwaters the laboratory must be informed of the water type when submitting samples.

DEVIATING SAMPLES

Samples must be received in a condition appropriate to the requested analyses. All samples should be submitted to the laboratory in suitable containers with sufficient ice packs to sustain an appropriate temperature for the requested analysis. If this is not the case you will be informed and any test results that may be compromised highlighted on your deviating samples report.

SURROGATES

Surrogate compounds are added during the preparation process to monitor recovery of analytes. However low recovery in soils is often due to peat, clay or other organic rich matrices. For waters this can be due to oxidants, surfactants, organic rich sediments or remediation fluids. Acceptable limits for most organic methods are 70 - 130% and for VOCs are 50 - 150%. When surrogate recoveries are outside the performance criteria but the associated AQC passes this is assumed to be due to matrix effect. Results are not surrogate corrected.

NOTE

Data is only accredited when all the requirements of our Quality System have been met. In certain circumstances where the requirements have not been met, the laboratory may issue the data in an interim report but will remove the accreditation, in this instance results should be considered indicative only. Where possible samples will be re-extracted and a final report issued with accredited results. Please do not hesitate to contact the laboratory if further details are required of the circumstances which have led to the removal of accreditation.

ABBREVIATIONS and ACRONYMS USED

#	UKAS accredited.
B	Indicates analyte found in associated method blank.
DR	Dilution required.
M	MCERTS accredited.
NA	Not applicable
NAD	No Asbestos Detected.
ND	None Detected (usually refers to VOC and/SVOC TICs).
NDP	No Determination Possible
SS	Calibrated against a single substance.
SV	Surrogate recovery outside performance criteria. This may be due to a matrix effect.
W	Results expressed on as received basis.
+	AQC failure, accreditation has been removed from this result, if appropriate, see 'Note' on previous page.
++	Result outside calibration range, results should be considered as indicative only and are not accredited.
*	Analysis subcontracted to a Jones Environmental approved laboratory.
CO	Suspected carry over
NFD	No Fibres Detected

JE Job No 13/685

Test Method No.	Description	Prep Method No. (if appropriate)	Description	UKAS	MCERTS (soils only)	Analysis done on As Received (AR) or Air Dried (AD)	Solid Results expressed on Dry/Wet basis
PM4	Moisture Content	PM0	No Preparation				
PM4	Moisture Content	PM0	No Preparation				WET
TM4	16 PAH by GC-MS, modified USEPA 8270	PM30	Magnetic stirrer extraction			AR	
TM4	16 PAH by GC-MS, modified USEPA 8270	PM30	Magnetic stirrer extraction			AR	WET
TM4	16 PAH by GC-MS, modified USEPA 8270	PM8	End Over End extraction			AR	DRY
TM4	16 PAH by GC-MS, modified USEPA 8270	PM8	End Over End extraction	Yes		AR	DRY
TM4	16 PAH by GC-MS, modified USEPA 8270	PM8	End Over End extraction			AR	
TM5	EPH by GC-FID, modified USEPA 8015	PM16	Aliphatic/Aromatic fractionation	Yes		AR	DRY
TM5	EPH by GC-FID, modified USEPA 8015	PM30	Magnetic stirrer extraction			AR	WET
TM5	EPH by GC-FID, modified USEPA 8015	PM8	End Over End extraction	Yes		AR	DRY
TM5/TM36	TPH CWG by GC-FID	PM12/PM16	CWG GC-FID			AR	DRY
TM5/TM36	TPH CWG by GC-FID	PM12/PM16	CWG GC-FID	Yes		AR	DRY
TM5/TM36	TPH CWG by GC-FID	PM30	Magnetic stirrer extraction			AR	WET
PM13	Soil Typing for MCERTS	PM0	No Preparation			AR	
TM15	VOC - Target by GC-MS, modified USEPA 8260	PM10	VOC GC-MS			AR	DRY
TM15	VOC - Target by GC-MS, modified USEPA 8260	PM10	VOC GC-MS	Yes		AR	DRY
TM15	VOC - Target by GC-MS, modified USEPA 8260	PM10	VOC GC-MS			AR	
TM15	VOC - Target by GC-MS, modified USEPA 8260	PM10	VOC GC-MS			AR	WET
TM21	TOC and TC by Combustion	PM24	Eltra preparation	Yes		AD	DRY
TM22	Loss on Ignition (LOI) - gravimetric	PM0	No Preparation	Yes		AD	DRY
TM26	Phenols by HPLC	PM0	No Preparation			AR	WET
TM26	Phenols by HPLC	PM21	Methanol : NaOH extraction			AR	DRY
TM26	Phenols by HPLC	PM21	Methanol : NaOH extraction	Yes		AR	DRY
TM27	SO4,Cl,NO3,NO2,F,PO4 by Dionex	PM0	No Preparation			AR	WET
TM30	Metals by ICP-OES	PM14	Metals by ICP (Waters)			AR	WET
TM30	Metals by ICP-OES	PM15	Aqua Regia extraction (Soils)	Yes		AD	DRY
TM30	Metals by ICP-OES	PM62	Aqua Regia extraction (Soils) (as received sample)			AR	DRY
TM36	GRO by Headspace GC-FID	PM12	GRO GC-FID			AR	DRY
TM36	GRO by Headspace GC-FID	PM12	GRO GC-FID	Yes		AR	DRY
TM36	GRO by Headspace GC-FID	PM12	GRO GC-FID			AR	WET
TM38	SO4,Cl,NO3,NO2,F,PO4, Amm N2,ThioCN, Hex Cr by Aquakem	PM0	No Preparation			AR	WET
TM38	SO4,Cl,NO3,NO2,F,PO4, Amm N2,ThioCN, Hex Cr by Aquakem	PM20	1:2 soil to water extraction	Yes		AD	DRY
TM38	SO4,Cl,NO3,NO2,F,PO4, Amm N2,ThioCN, Hex Cr by Aquakem	PM20	1:2 soil to water extraction			AR	DRY
TM38	SO4,Cl,NO3,NO2,F,PO4, Amm N2,ThioCN, Hex Cr by Aquakem	PM60	1:2 soil to water extraction (as received sample)	Yes		AR	DRY
TM60	TOC/DOC by NDIR	PM0	No Preparation			AR	WET
TM61	Mercury - low level CVAF	PM38	Mercury CVAF			AR	WET
TM65	Asbestos Bulk Identification	PM42	Screening of soils for fibres			AR	
TM65	Asbestos Bulk Identification	PM42	Screening of soils for fibres	Yes		AR	
TM73	pH in by Metrohm	PM0	No Preparation			AR	WET
TM73	pH in by Metrohm	PM11	1:2.5 soil/water extraction	Yes		AR	WET
TM74	Water Soluble Boron by ICP-OES	PM32	Preparation of soils for WSB	Yes		AD	DRY
TM74	Water Soluble Boron by ICP-OES	PM61	Preparation of soils for WSB (as received sample)			AR	DRY
TM76	Electrical Conductivity by Metrohm	PM0	No Preparation			AR	WET

JE Job No 13/685

Test Method No.	Description	Prep Method No. (if appropriate)	Description	UKAS	MCERTS (soils only)	Analysis done on As Received (AR) or Air Dried (AD)	Solid Results expressed on Dry/Wet basis
TM89	Cyanide by FIA	PM0	No Preparation			AR	WET
TM89	Cyanide by FIA	PM45	Cyanide & Thiocyanate prep for soils			AR	DRY
TM89	Cyanide by FIA	PM45	Cyanide & Thiocyanate prep for soils	Yes		AR	DRY
TM106	Sulphide by CFA	PM0	No Preparation			AR	WET
TM107	Thiocyanate by CFA	PM0	No Preparation			AR	WET
TM107	Thiocyanate by CFA	PM45	Cyanide & Thiocyanate prep for soils			AR	DRY
TM108	Elemental Sulphur by HPLC	PM8	End Over End extraction			AR	DRY

Jones Environmental Laboratory

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WYG
Arndale Court
Arndale Centre
Otley Road
Leeds
LS6 2UJ

No.4225

Attention :	Jonathan Boyes
Date :	24th January, 2013
Your reference :	A74754-28
Our reference :	Test Report 13/727 Batch 1
Location :	BRADFORD ROAD
Date samples received :	12th January, 2013
Status :	Final report
Issue :	1

Five samples were received for analysis on 12th January, 2013. Please find attached our Test Report which should be read with notes at the end of the report and should include all sections if reproduced. Interpretations and opinions are outside the scope of any accreditation, and all results relate only to samples supplied.
All analysis is carried out on as received samples and reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected.

Compiled By:

Phil Sommerton B.Sc
Project Manager

Bob Millward B.Sc
Principal Chemist

Jones Environmental Laboratory

Client Name:	WYG
Reference:	A74754-28
Location:	BRADFORD ROAD
Contact:	Jonathan Boyes
JE Job No.:	13/727

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

Please see attached notes for all abbreviations and acronyms

J E Sample No.	1-2	3-4	5-8	9-11							LOD	Units	Method No.
Sample ID	TP102 0.2	TP102 0.4	BH101 0.5	TP103A 0.3									
Depth	0.2	0.4	0.5	0.3									
COC No / misc													
Containers	V J	J T	V J T	V J T									
Sample Date	11/01/2013	11/01/2013	11/01/2013	11/01/2013									
Sample Type	Soil	Soil	Soil	Soil									
Batch Number	1	1	1	1									
Date of Receipt	12/01/2013	12/01/2013	12/01/2013	12/01/2013									
Arsenic #	-	4.4	-	7.9							<0.5	mg/kg	TM30/PM15
Arsenic	9.4	-	55.2	-							<0.5	mg/kg	TM30/PM62
Cadmium #	-	0.7	-	0.4							<0.1	mg/kg	TM30/PM15
Cadmium	0.5	-	0.2	-							<0.1	mg/kg	TM30/PM62
Chromium #	-	6.9	-	15.7							<0.5	mg/kg	TM30/PM15
Chromium	12.9	-	26.3	-							<0.5	mg/kg	TM30/PM62
Copper #	-	26	-	43							<1	mg/kg	TM30/PM15
Copper	28	-	94	-							<1	mg/kg	TM30/PM62
Lead #	-	46	-	78							<5	mg/kg	TM30/PM15
Lead	97	-	313	-							<5	mg/kg	TM30/PM62
Mercury #	-	0.2	-	0.2							<0.1	mg/kg	TM30/PM15
Mercury	0.2	-	0.2	-							<0.1	mg/kg	TM30/PM62
Nickel #	-	7.6	-	17.0							<0.7	mg/kg	TM30/PM15
Nickel	17.5	-	56.2	-							<0.7	mg/kg	TM30/PM62
Selenium #	-	<1	-	<1							<1	mg/kg	TM30/PM15
Selenium	<1	-	<1	-							<1	mg/kg	TM30/PM62
Water Soluble Boron #	-	0.4	-	0.5							<0.1	mg/kg	TM74/PM32
Water Soluble Boron	0.2	-	1.3	-							<0.1	mg/kg	TM74/PM61
Zinc #	-	66	-	137							<5	mg/kg	TM30/PM15
Zinc	112	-	151	-							<5	mg/kg	TM30/PM62
PAH MS	x10 Dilution	x10 Dilution	x5 Dilution										
Naphthalene #	<0.40	<0.40	0.46	0.10							<0.04	mg/kg	TM4/PM8
Acenaphthylene	<0.30	0.45	1.05	0.08							<0.03	mg/kg	TM4/PM8
Acenaphthene #	<0.50	<0.50	<0.25	<0.05							<0.05	mg/kg	TM4/PM8
Fluorene #	<0.40	<0.40	0.22	<0.04							<0.04	mg/kg	TM4/PM8
Phenanthrene #	1.78	1.42	1.85	0.24							<0.03	mg/kg	TM4/PM8
Anthracene #	0.97	0.85	0.75	0.09							<0.04	mg/kg	TM4/PM8
Fluoranthene #	3.51	2.63	3.35	0.44							<0.03	mg/kg	TM4/PM8
Pyrene #	3.86	3.05	2.78	0.35							<0.03	mg/kg	TM4/PM8
Benzo(a)anthracene #	1.72	1.70	1.89	0.20							<0.06	mg/kg	TM4/PM8
Chrysene #	1.89	2.09	1.48	0.22							<0.02	mg/kg	TM4/PM8
Benzo(bk)fluoranthene #	4.02	4.00	3.42	0.55							<0.07	mg/kg	TM4/PM8
Benzo(a)pyrene #	2.72	2.43	1.83	0.24							<0.04	mg/kg	TM4/PM8
Indeno(123cd)pyrene #	1.78	1.80	1.37	0.22							<0.04	mg/kg	TM4/PM8
Dibenzo(ah)anthracene #	<0.40	<0.40	0.37	0.05							<0.04	mg/kg	TM4/PM8
Benzo(ghi)perylene #	1.55	1.63	1.43	0.20							<0.04	mg/kg	TM4/PM8
PAH 16 Total	23.8	22.1	22.3	3.0							<0.6	mg/kg	TM4/PM8
Benzo(b)fluoranthene	2.89	2.88	2.46	0.40							<0.05	mg/kg	TM4/PM8
Benzo(k)fluoranthene	1.13	1.12	0.96	0.15							<0.02	mg/kg	TM4/PM8
PAH Surrogate % Recovery	92	88	96	102							<0	%	TM4/PM8
Methyl Tertiary Butyl Ether #	<0.002	<0.002	<0.002	<0.002							<0.002	mg/kg	TM15/PM10
Benzene #	<0.003	<0.003	0.006	0.005							<0.003	mg/kg	TM15/PM10

Client Name: WYG

Reference: A74754-28

Location: BRADFORD ROAD

Contact: Jonathan Boyes

JE Job No.: 13/727

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

Please see attached notes for all abbreviations and acronyms

J E Sample No.	1-2	3-4	5-8	9-11							LOD	Units	Method No.
Sample ID	TP102 0.2	TP102 0.4	BH101 0.5	TP103A 0.3									
Depth	0.2	0.4	0.5	0.3									
COC No / misc													
Containers	V J	J T	V J T	V J T									
Sample Date	11/01/2013	11/01/2013	11/01/2013	11/01/2013									
Sample Type	Soil	Soil	Soil	Soil									
Batch Number	1	1	1	1									
Date of Receipt	12/01/2013	12/01/2013	12/01/2013	12/01/2013									
Toluene #	<0.003	<0.003	0.009	0.008							<0.003	mg/kg	TM15/PM10
Ethylbenzene #	<0.003	<0.003	<0.003	<0.003							<0.003	mg/kg	TM15/PM10
p/m-Xylene #	<0.006	<0.006	0.008	<0.006							<0.006	mg/kg	TM15/PM10
o-Xylene #	<0.003	<0.003	0.006	<0.003							<0.003	mg/kg	TM15/PM10
Surrogate Recovery Toluene D8	89	94	100	101							<0	%	TM15/PM10
EPH (C8-C40) #	3922	4325	521	182							<30	mg/kg	TM5/PM8
TPH CWG													
Aliphatics													
>C5-C6 #	-	<0.1	<0.1	<0.1							<0.1	mg/kg	TM36/PM12
>C6-C8 #	-	<0.1	<0.1	<0.1							<0.1	mg/kg	TM36/PM12
>C8-C10	-	<0.1	<0.1	<0.1							<0.1	mg/kg	TM36/PM12
>C10-C12 #	-	<0.2	<0.2	<0.2							<0.2	mg/kg	TM5/PM16
>C12-C16 #	-	<4	<4	<4							<4	mg/kg	TM5/PM16
>C16-C21 #	-	19	23	<7							<7	mg/kg	TM5/PM16
>C21-C35 #	-	224	82	<7							<7	mg/kg	TM5/PM16
Total aliphatics C5-35	-	243	105	<19							<19	mg/kg	TM5/TM36/PM12/PM16
Total aliphatics C5-C12	-	<0.5	<0.5	<0.5							<0.5	mg/kg	TM5/TM36/PM12/PM16
Total aliphatics >C12-C35 #	-	243	105	<18							<18	mg/kg	TM5/TM36/PM12/PM16
Aromatics													
>C5-EC7	-	<0.1	<0.1	<0.1							<0.1	mg/kg	TM36/PM12
>EC7-EC8	-	<0.1	<0.1	<0.1							<0.1	mg/kg	TM36/PM12
>EC8-EC10 #	-	<0.1	<0.1	<0.1							<0.1	mg/kg	TM36/PM12
>EC10-EC12 #	-	<0.2	<0.2	<0.2							<0.2	mg/kg	TM5/PM16
>EC12-EC16 #	-	<4	6	<4							<4	mg/kg	TM5/PM16
>EC16-EC21 #	-	60	49	<7							<7	mg/kg	TM5/PM16
>EC21-EC35 #	-	837	303	59							<7	mg/kg	TM5/PM16
Total aromatics C5-35	-	897	358	59							<19	mg/kg	TM5/TM36/PM12/PM16
Total aromatics C5-C12	-	<0.5	<0.5	<0.5							<0.5	mg/kg	TM5/TM36/PM12/PM16
Total aromatics >EC12-EC35 #	-	897	358	59							<18	mg/kg	TM5/TM36/PM12/PM16
Total aliphatics and aromatics(C5-35)	-	1140	463	59							<38	mg/kg	TM5/TM36/PM12/PM16
Resorcinol	<0.01	<0.01	<0.01	<0.01							<0.01	mg/kg	TM26/PM21
Catechol	<0.01	<0.01	<0.01	<0.01							<0.01	mg/kg	TM26/PM21
Phenol #	<0.01	<0.01	<0.01	<0.01							<0.01	mg/kg	TM26/PM21
m/p-cresol #	<0.02	<0.02	<0.02	<0.02							<0.02	mg/kg	TM26/PM21
o-cresol #	0.02	0.02	<0.01	<0.01							<0.01	mg/kg	TM26/PM21
Total cresols #	<0.03	<0.03	<0.03	<0.03							<0.03	mg/kg	TM26/PM21
Xylenols #	<0.06	<0.06	<0.06	<0.06							<0.06	mg/kg	TM26/PM21
1-naphthol	<0.01	<0.01	<0.01	<0.01							<0.01	mg/kg	TM26/PM21
2,3,5-trimethyl phenol #	<0.01	<0.01	<0.01	<0.01							<0.01	mg/kg	TM26/PM21
2-isopropylphenol #	<0.01	<0.01	<0.01	<0.01							<0.01	mg/kg	TM26/PM21

Jones Environmental Laboratory

Client Name: WYG

Reference: A74754-28

Location: BRADFORD ROAD

Contact: Jonathan Boyes

JE Job No.: 13/727

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

Please see attached notes for all abbreviations and acronyms

J E Sample No.	1-2	3-4	5-8	9-11							LOD	Units	Method No.
Sample ID	TP102 0.2	TP102 0.4	BH101 0.5	TP103A 0.3									
Depth	0.2	0.4	0.5	0.3									
COC No / misc													
Containers	V J	J T	V J T	V J T									
Sample Date	11/01/2013	11/01/2013	11/01/2013	11/01/2013									
Sample Type	Soil	Soil	Soil	Soil									
Batch Number	1	1	1	1									
Date of Receipt	12/01/2013	12/01/2013	12/01/2013	12/01/2013									
Total Speciated Phenols HPLC	<0.15	<0.15	<0.15	<0.15							<0.15	mg/kg	TM26/PM21
Natural Moisture Content	NDP	12.9	NDP	9.4							<0.1	%	PM4/PM0
Stone Content >= 10mm	NDP	61.1	NDP	86.2							<0.1	%	PM4/PM0
Ammoniacal Nitrogen as NH4	<0.6	<0.6	<0.6	<0.6							<0.6	mg/kg	TM38/PM20
Chloride #	-	30	-	32							<2	mg/kg	TM38/PM20
Chloride #	6	-	10	-							<2	mg/kg	TM38/PM60
Sulphate as SO4 (2:1 Ext) #	-	0.0142	-	0.0314							<0.0015	g/l	TM38/PM20
Sulphate as SO4 (2:1 Ext) #	0.0078	-	0.0180	-							<0.0015	g/l	TM38/PM60
Free Cyanide	<0.5	<0.5	<0.5	<0.5							<0.5	mg/kg	TM89/PM45
Total Cyanide #	0.7	<0.5	0.6	0.7							<0.5	mg/kg	TM89/PM45
Complex Cyanide	0.7	<0.5	0.6	0.7							<0.5	mg/kg	TM89/PM45
Total Organic Carbon #	NDP	-	-	-							<0.2	%	TM21/PM24
Thiocyanate	<0.6	<0.6	<0.6	<0.6							<0.6	mg/kg	TM107/PM45
Elemental Sulphur	<1	<1	<1	3							<1	mg/kg	TM108/PM8
Loss on Ignition #	NDP	3.5	NDP	4.5							<1.0	%	TM22/PM0
pH #	8.46	8.44	8.77	8.79							<0.01	pH units	TM73/PM11
Sample Type	Clayey Loam	Clayey Silt	Sandy Loam	Clayey Loam								None	PM13/PM0
Sample Colour	Dark Brown	Dark Brown	Dark Brown	Dark Brown								None	PM13/PM0
Other Items	Stones, Roots, Sand	Stones	Stones, Roots	Stones, Sand								None	PM13/PM0

Client Name: WYG

Reference: A74754-28

Location: BRADFORD ROAD

Contact: Jonathan Boyes

JE Job No.: 13/727

Report : NRA Leachate

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

J E Sample No.	1-2	3-4	5-8	9-11							LOD	Units	Method No.
Sample ID	TP102 0.2	TP102 0.4	BH101 0.5	TP103A 0.3									
Depth	0.2	0.4	0.5	0.3									
COC No / misc													
Containers	V J	J T	V J T	V J T									
Sample Date	11/01/2013	11/01/2013	11/01/2013	11/01/2013									
Sample Type	Soil	Soil	Soil	Soil									
Batch Number	1	1	1	1									
Date of Receipt	12/01/2013	12/01/2013	12/01/2013	12/01/2013									
Dissolved Arsenic	-	0.0014	0.0083	<0.0009							<0.0009	mg/l	TM30/PM14
Dissolved Cadmium	-	0.00024	0.00034	0.00010							<0.00003	mg/l	TM30/PM14
Dissolved Chromium	-	0.0011	0.0019	0.0021							<0.0002	mg/l	TM30/PM14
Dissolved Copper	-	0.003	0.036	0.010							<0.003	mg/l	TM30/PM14
Dissolved Iron	-	0.1900	0.1458	<0.0047							<0.0047	mg/l	TM30/PM14
Dissolved Lead	-	0.0021	0.0062	0.0092							<0.0004	mg/l	TM30/PM14
Dissolved Mercury	-	<0.5	<0.5	<0.5							<0.5	ug/l	TM30/PM14
Dissolved Nickel	-	<0.0002	<0.0002	<0.0002							<0.0002	mg/l	TM30/PM14
Dissolved Selenium	-	<0.0012	<0.0012	<0.0012							<0.0012	mg/l	TM30/PM14
Dissolved Zinc	-	0.0025	0.0069	<0.0015							<0.0015	mg/l	TM30/PM14
Mercury Dissolved by CVAF	-	0.00002	0.00020	0.00014							<0.00001	mg/l	TM61/PM38
Total Dissolved Sulphur	-	0.99	2.45	5.50							<0.01	mg/l	TM30/PM14
PAH MS													
Naphthalene	-	0.000050	0.000050	0.000110							<0.000014	mg/l	TM4/PM30
Acenaphthylene	-	0.000020	0.000190	0.000030							<0.000013	mg/l	TM4/PM30
Acenaphthene	-	<0.000013	0.000020	0.000020							<0.000013	mg/l	TM4/PM30
Fluorene	-	<0.000014	0.000030	0.000020							<0.000014	mg/l	TM4/PM30
Phenanthrene	-	0.000070	0.000190	0.000160							<0.000011	mg/l	TM4/PM30
Anthracene	-	0.000030	0.000080	0.000040							<0.000013	mg/l	TM4/PM30
Fluoranthene	-	0.000180	0.000420	0.000350							<0.000012	mg/l	TM4/PM30
Pyrene	-	0.000180	0.000370	0.000330							<0.000013	mg/l	TM4/PM30
Benzo(a)anthracene	-	0.000130	0.000250	0.000240							<0.000015	mg/l	TM4/PM30
Chrysene	-	0.000150	0.000290	0.000290							<0.000011	mg/l	TM4/PM30
Benzo(bk)fluoranthene	-	0.000310	0.000730	0.000530							<0.000018	mg/l	TM4/PM30
Benzo(a)pyrene	-	0.000190	0.000400	0.000330							<0.000016	mg/l	TM4/PM30
Indeno(123cd)pyrene	-	0.000200	0.000460	0.000270							<0.000011	mg/l	TM4/PM30
Dibenzo(ah)anthracene	-	0.00005	0.00005	0.00008							<0.00001	mg/l	TM4/PM30
Benzo(ghi)perylene	-	0.000160	0.000420	0.000180							<0.000011	mg/l	TM4/PM30
PAH 16 Total	-	0.001720	0.003950	0.002980							<0.000195	mg/l	TM4/PM30
PAH Surrogate % Recovery	-	100	95	95							<0	%	TM4/PM30
Methyl Tertiary Butyl Ether	-	<0.001	<0.001	<0.001							<0.001	mg/l	TM15/PM10
Benzene	-	<0.001	<0.001	<0.001							<0.001	mg/l	TM15/PM10
Toluene	-	<0.002	<0.002	<0.002							<0.002	mg/l	TM15/PM10
Ethylbenzene	-	<0.002	<0.002	<0.002							<0.002	mg/l	TM15/PM10
p/m-Xylene	-	<0.003	<0.003	<0.003							<0.003	mg/l	TM15/PM10
o-Xylene	-	<0.002	<0.002	<0.002							<0.002	mg/l	TM15/PM10
Surrogate Recovery Toluene D8	-	119	122	110							<0	%	TM15/PM10
Surrogate Recovery 4-Bromofluorobenzene	-	101	103	97							<0	%	TM15/PM10

Please see attached notes for all abbreviations and acronyms

Jones Environmental Laboratory

Client Name: WYG

Reference: A74754-28

Location: BRADFORD ROAD

Contact: Jonathan Boyes

JE Job No.: 13/727

Report : NRA Leachate

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

Please see attached notes for all abbreviations and acronyms

J E Sample No.	1-2	3-4	5-8	9-11							LOD	Units	Method No.
Sample ID	TP102 0.2	TP102 0.4	BH101 0.5	TP103A 0.3									
Depth	0.2	0.4	0.5	0.3									
COC No / misc													
Containers	V J	J T	V J T	V J T									
Sample Date	11/01/2013	11/01/2013	11/01/2013	11/01/2013									
Sample Type	Soil	Soil	Soil	Soil									
Batch Number	1	1	1	1									
Date of Receipt	12/01/2013	12/01/2013	12/01/2013	12/01/2013									
TPH CWG													
Aliphatics													
>C5-C6	<5	-	-	<5							<5	ug/l	TM36/PM12
>C6-C8	<5	-	-	<5							<5	ug/l	TM36/PM12
>C8-C10	<5	-	-	<5							<5	ug/l	TM36/PM12
>C10-C12	<5	-	-	<5							<5	ug/l	TM5/PM30
>C12-C16	<10	-	-	<10							<10	ug/l	TM5/PM30
>C16-C21	<10	-	-	<10							<10	ug/l	TM5/PM30
>C21-C35	<10	-	-	<10							<10	ug/l	TM5/PM30
Total aliphatics C5-35	<10	-	-	<10							<10	ug/l	TM5/TM36/PM30
Aromatics													
>C5-EC7	<5	-	-	<5							<5	ug/l	TM36/PM12
>EC7-EC8	<5	-	-	<5							<5	ug/l	TM36/PM12
>EC8-EC10	<5	-	-	<5							<5	ug/l	TM36/PM12
>EC10-EC12	<5	-	-	<5							<5	ug/l	TM5/PM30
>EC12-EC16	<10	-	-	<10							<10	ug/l	TM5/PM30
>EC16-EC21	<10	-	-	<10							<10	ug/l	TM5/PM30
>EC21-EC35	<10	-	-	<10							<10	ug/l	TM5/PM30
Total aromatics C5-35	<10	-	-	<10							<10	ug/l	TM5/PM30
Total aliphatics and aromatics(C5-35)	<10	-	-	<10							<10	ug/l	TM5/TM36/PM30
EPH (C8-C40)	-	<0.01	<0.01	<0.01							<0.01	mg/l	TM5/PM30
Resorcinol	-	<0.0005	<0.0005	<0.0005							<0.0005	mg/l	TM26/PM0
Catechol	-	<0.0005	<0.0005	<0.0005							<0.0005	mg/l	TM26/PM0
Phenol	-	<0.0005	<0.0005	<0.0005							<0.0005	mg/l	TM26/PM0
m/p-cresol	-	<0.0005	<0.0005	<0.0005							<0.0005	mg/l	TM26/PM0
o-cresol	-	<0.0005	<0.0005	<0.0005							<0.0005	mg/l	TM26/PM0
Total cresols	-	<0.0005	<0.0005	<0.0005							<0.0005	mg/l	TM26/PM0
Xylenols	-	<0.0005	<0.0005	<0.0005							<0.0005	mg/l	TM26/PM0
1-naphthol	-	<0.0005	<0.0005	<0.0005							<0.0005	mg/l	TM26/PM0
2,3,5-trimethyl phenol	-	<0.0005	<0.0005	<0.0005							<0.0005	mg/l	TM26/PM0
2-isopropylphenol	-	<0.0005	<0.0005	<0.0005							<0.0005	mg/l	TM26/PM0
Total Speciated Phenols HPLC	-	<0.005	<0.005	<0.005							<0.005	mg/l	TM26/PM0
Chloride	-	0.4	0.3	8.3							<0.3	mg/l	TM27/PM0
Sulphate	-	1.46	4.88	10.66							<0.05	mg/l	TM27/PM0
Free Cyanide	-	<0.01	<0.01	<0.01							<0.01	mg/l	TM89/PM0
Total Cyanide	-	<0.005	<0.005	<0.005							<0.005	mg/l	TM89/PM0
Complex Cyanide	-	<0.01	<0.01	<0.01							<0.01	mg/l	TM89/PM0
Ammoniacal Nitrogen as NH4	-	<0.03	<0.03	0.04							<0.03	mg/l	TM38/PM0

Jones Environmental Laboratory

Client Name: WYG

Reference: A74754-28

Location: BRADFORD ROAD

Contact: Jonathan Boyes

JE Job No.: 13/727

Report : NRA Leachate

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

Please see attached notes for all abbreviations and acronyms

J E Sample No.	1-2	3-4	5-8	9-11							LOD	Units	Method No.
Sample ID	TP102 0.2	TP102 0.4	BH101 0.5	TP103A 0.3									
Depth	0.2	0.4	0.5	0.3									
COC No / misc													
Containers	V J	J T	V J T	V J T									
Sample Date	11/01/2013	11/01/2013	11/01/2013	11/01/2013									
Sample Type	Soil	Soil	Soil	Soil									
Batch Number	1	1	1	1									
Date of Receipt	12/01/2013	12/01/2013	12/01/2013	12/01/2013									
Sulphide	-	<0.3	<0.3	<0.3							<0.3	mg/l	TM106/PM0
Thiocyanate	-	<0.02	<0.02	0.04							<0.02	mg/l	TM107/PM0
Dissolved Organic Carbon	-	5	4	4							<2	mg/l	TM60/PM0
Electrical Conductivity @25C	-	106	110	565							<2	uS/cm	TM76/PM0
pH	-	7.57	7.76	10.92							<0.01	pH units	TM73/PM0

Please include all sections of this report if it is reproduced

All solid results are expressed on a dry weight basis unless stated otherwise.

Client Name: WYG

Reference: A74754-28

Location: BRADFORD ROAD

Contact: Jonathan Boyes

Note:

Analysis was carried out in accordance with our documented in-house methods PM042 and TM065 and HSG 248 by Stereo and Polarised Light Microscopy using Dispersion Staining Techniques and is covered by our UKAS accreditation. Samples are retained for not less than 6 months from the date of analysis unless specifically requested.

Opinions lie outside the scope of our UKAS accreditation.

Where the sample is not taken by a Jones Environmental Laboratory consultant, Jones Environmental Laboratory cannot be responsible for inaccurate or unrepresentative sampling.

Signed on behalf of Jones Environmental Laboratory:



Gemma Newsome
Asbestos Team Leader

J E Job No.	Batch	Sample ID	Depth	J E Sample No.	Date Of Analysis	Description	Asbestos Results
13/727	1	TP102 0.2	0.2	1-2	15/01/2013	Soil/Brick/Fibre Bundle	Chrysotile
13/727	1	BH101 0.5	0.5	5-8	15/01/2013	Soil/Brick/Fibre Bundle	Amosite, Chrysotile, Crocidolite

Client Name: WYG

Reference: A74754-28

Location: BRADFORD ROAD

Contact: Jonathan Boyes

J E Job No.	Batch	Sample ID	Depth	J E Sample No.	NDP Reason
13/727	1	TP102 0.2	0.2	1-2	Asbestos detected in sample
13/727	1	BH101 0.5	0.5	5-8	Asbestos detected in sample

NOTES TO ACCOMPANY ALL SCHEDULES AND REPORTS

JE Job No.: 13/727

SOILS

Please note we are only MCERTS accredited for sand, loam and clay and any other matrix is outside our scope of accreditation.

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation has been performed on clay, sand and loam, only samples that are predominantly these matrices, or combinations of them will be within our MCERTS scope. If samples are not one of a combination of the above matrices they will not be marked as MCERTS accredited.

It is assumed that you have taken representative samples on site and require analysis on a representative subsample. Stones will generally be included unless we are requested to remove them.

All samples will be discarded one month after the date of reporting, unless we are instructed to the contrary. If we are instructed to keep samples, a storage charge of £1 (1.5 Euros) per sample per month will be applied until we are asked to dispose of them.

If you have not already done so, please send us a purchase order if this is required by your company.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

All analysis is reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected. Samples are dried at 35°C ±5°C unless otherwise stated. Moisture content for CEN Leachate tests are dried at 105°C ±5°C.

WATERS

Please note we are not a Drinking Water Inspectorate (DWI) Approved Laboratory . It is important that detection limits are carefully considered when requesting water analysis.

UKAS accreditation applies to surface water and groundwater and one other matrix which is analysis specific, any other liquids are outside our scope of accreditation

As surface waters require different sample preparation to groundwaters the laboratory must be informed of the water type when submitting samples.

DEVIATING SAMPLES

Samples must be received in a condition appropriate to the requested analyses. All samples should be submitted to the laboratory in suitable containers with sufficient ice packs to sustain an appropriate temperature for the requested analysis. If this is not the case you will be informed and any test results that may be compromised highlighted on your deviating samples report.

SURROGATES

Surrogate compounds are added during the preparation process to monitor recovery of analytes. However low recovery in soils is often due to peat, clay or other organic rich matrices. For waters this can be due to oxidants, surfactants, organic rich sediments or remediation fluids. Acceptable limits for most organic methods are 70 - 130% and for VOCs are 50 - 150%. When surrogate recoveries are outside the performance criteria but the associated AQC passes this is assumed to be due to matrix effect. Results are not surrogate corrected.

NOTE

Data is only accredited when all the requirements of our Quality System have been met. In certain circumstances where the requirements have not been met, the laboratory may issue the data in an interim report but will remove the accreditation, in this instance results should be considered indicative only. Where possible samples will be re-extracted and a final report issued with accredited results. Please do not hesitate to contact the laboratory if further details are required of the circumstances which have led to the removal of accreditation.

ABBREVIATIONS and ACRONYMS USED

#	UKAS accredited.
B	Indicates analyte found in associated method blank.
DR	Dilution required.
M	MCERTS accredited.
NA	Not applicable
NAD	No Asbestos Detected.
ND	None Detected (usually refers to VOC and/SVOC TICs).
NDP	No Determination Possible
SS	Calibrated against a single substance.
SV	Surrogate recovery outside performance criteria. This may be due to a matrix effect.
W	Results expressed on as received basis.
+	AQC failure, accreditation has been removed from this result, if appropriate, see 'Note' on previous page.
++	Result outside calibration range, results should be considered as indicative only and are not accredited.
*	Analysis subcontracted to a Jones Environmental approved laboratory.
CO	Suspected carry over
NFD	No Fibres Detected

JE Job No 13/727

Test Method No.	Description	Prep Method No. (if appropriate)	Description	UKAS	MCERTS (soils only)	Analysis done on As Received (AR) or Air Dried (AD)	Solid Results expressed on Dry/Wet basis
PM4	Moisture Content	PM0	No Preparation				
PM4	Moisture Content	PM0	No Preparation				WET
TM4	16 PAH by GC-MS, modified USEPA 8270	PM30	Magnetic stirrer extraction			AR	
TM4	16 PAH by GC-MS, modified USEPA 8270	PM30	Magnetic stirrer extraction			AR	WET
TM4	16 PAH by GC-MS, modified USEPA 8270	PM8	End Over End extraction			AR	DRY
TM4	16 PAH by GC-MS, modified USEPA 8270	PM8	End Over End extraction	Yes		AR	DRY
TM4	16 PAH by GC-MS, modified USEPA 8270	PM8	End Over End extraction			AR	
TM5	EPH by GC-FID, modified USEPA 8015	PM16	Aliphatic/Aromatic fractionation	Yes		AR	DRY
TM5	EPH by GC-FID, modified USEPA 8015	PM30	Magnetic stirrer extraction			AR	WET
TM5	EPH by GC-FID, modified USEPA 8015	PM8	End Over End extraction	Yes		AR	DRY
TM5/TM36	TPH CWG by GC-FID	PM12/PM16	CWG GC-FID			AR	DRY
TM5/TM36	TPH CWG by GC-FID	PM12/PM16	CWG GC-FID	Yes		AR	DRY
TM5/TM36	TPH CWG by GC-FID	PM30	Magnetic stirrer extraction			AR	WET
PM13	Soil Typing for MCERTS	PM0	No Preparation			AR	
TM15	VOC - Target by GC-MS, modified USEPA 8260	PM10	VOC GC-MS			AR	DRY
TM15	VOC - Target by GC-MS, modified USEPA 8260	PM10	VOC GC-MS	Yes		AR	DRY
TM15	VOC - Target by GC-MS, modified USEPA 8260	PM10	VOC GC-MS			AR	
TM15	VOC - Target by GC-MS, modified USEPA 8260	PM10	VOC GC-MS			AR	WET
TM21	TOC and TC by Combustion	PM24	Eltra preparation	Yes		AD	DRY
TM22	Loss on Ignition (LOI) - gravimetric	PM0	No Preparation	Yes		AD	DRY
TM26	Phenols by HPLC	PM0	No Preparation			AR	WET
TM26	Phenols by HPLC	PM21	Methanol : NaOH extraction			AR	DRY
TM26	Phenols by HPLC	PM21	Methanol : NaOH extraction	Yes		AR	DRY
TM27	SO4,Cl,NO3,NO2,F,PO4 by Dionex	PM0	No Preparation			AR	WET
TM30	Metals by ICP-OES	PM14	Metals by ICP (Waters)			AR	WET
TM30	Metals by ICP-OES	PM15	Aqua Regia extraction (Soils)	Yes		AD	DRY
TM30	Metals by ICP-OES	PM62	Aqua Regia extraction (Soils) (as received sample)			AR	DRY
TM36	GRO by Headspace GC-FID	PM12	GRO GC-FID			AR	DRY
TM36	GRO by Headspace GC-FID	PM12	GRO GC-FID	Yes		AR	DRY
TM36	GRO by Headspace GC-FID	PM12	GRO GC-FID			AR	WET
TM38	SO4,Cl,NO3,NO2,F,PO4, Amm N2,ThioCN, Hex Cr by Aquakem	PM0	No Preparation			AR	WET
TM38	SO4,Cl,NO3,NO2,F,PO4, Amm N2,ThioCN, Hex Cr by Aquakem	PM20	1:2 soil to water extraction	Yes		AD	DRY
TM38	SO4,Cl,NO3,NO2,F,PO4, Amm N2,ThioCN, Hex Cr by Aquakem	PM20	1:2 soil to water extraction			AR	DRY
TM38	SO4,Cl,NO3,NO2,F,PO4, Amm N2,ThioCN, Hex Cr by Aquakem	PM60	1:2 soil to water extraction (as received sample)	Yes		AR	DRY
TM60	TOC/DOC by NDIR	PM0	No Preparation			AR	WET
TM61	Mercury - low level CVAF	PM38	Mercury CVAF			AR	WET
TM65	Asbestos Bulk Identification	PM42	Screening of soils for fibres			AR	
TM65	Asbestos Bulk Identification	PM42	Screening of soils for fibres	Yes		AR	
TM73	pH in by Metrohm	PM0	No Preparation			AR	WET
TM73	pH in by Metrohm	PM11	1:2.5 soil/water extraction	Yes		AR	WET
TM74	Water Soluble Boron by ICP-OES	PM32	Preparation of soils for WSB	Yes		AD	DRY
TM74	Water Soluble Boron by ICP-OES	PM61	Preparation of soils for WSB (as received sample)			AR	DRY
TM76	Electrical Conductivity by Metrohm	PM0	No Preparation			AR	WET

JE Job No 13/727

Test Method No.	Description	Prep Method No. (if appropriate)	Description	UKAS	MCERTS (soils only)	Analysis done on As Received (AR) or Air Dried (AD)	Solid Results expressed on Dry/Wet basis
TM89	Cyanide by FIA	PM0	No Preparation			AR	WET
TM89	Cyanide by FIA	PM45	Cyanide & Thiocyanate prep for soils			AR	DRY
TM89	Cyanide by FIA	PM45	Cyanide & Thiocyanate prep for soils	Yes		AR	DRY
TM106	Sulphide by CFA	PM0	No Preparation			AR	WET
TM107	Thiocyanate by CFA	PM0	No Preparation			AR	WET
TM107	Thiocyanate by CFA	PM45	Cyanide & Thiocyanate prep for soils			AR	DRY
TM108	Elemental Sulphur by HPLC	PM8	End Over End extraction			AR	DRY

Appendix G9 – Groundwater Results

Jones Environmental Laboratory

Unit 3 Deeside Point
Zone 3
Deeside Industrial Park
Deeside
CH5 2UA

Tel: +44 (0) 1244 833780
Fax: +44 (0) 1244 833781

WYG
Arndale Court
Arndale Centre
Otley Road
Leeds
LS6 2UJ

No.4225

Attention :	Jonathan Boyes
Date :	21st March, 2013
Your reference :	A74754-28
Our reference :	Test Report 13/2625 Batch 1
Location :	BRADFORD RD
Date samples received :	8th March, 2013
Status :	Final report
Issue :	1

Eleven samples was received for analysis on 8th March, 2013. Please find attached our Test Report which should be read with notes at the end of the report and should include all sections if reproduced. Interpretations and opinions are outside the scope of any accreditation, and all results relate only to samples supplied.
All analysis is carried out on as received samples and reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected.

Compiled By:

Phil Sommerton B.Sc
Project Manager

Bob Millward B.Sc
Principal Chemist

Client Name: W

Reference: A

Location: B

Contact: J

JE Job No.: 1

tle, P=plastic bottle

[redacted]

J E Sample No.					
Sample ID					
Depth					
COC No / misc					
Containers	V				
Sample Date	0				
Sample Type	Gr				
Batch Number					
Date of Receipt	0				

Please see attached notes for all abbreviations and acronyms

						LOD	Units	Method No.
Dissolved Arsenic #						<0.0009	mg/l	TM30/PM14
Dissolved Cadmium #	<					<0.00003	mg/l	TM30/PM14
Total Dissolved Chromium #						<0.0002	mg/l	TM30/PM14
Dissolved Copper #						<0.003	mg/l	TM30/PM14
Total Dissolved Iron #						<0.0047	mg/l	TM30/PM14
Dissolved Lead #						<0.0004	mg/l	TM30/PM14
Dissolved Nickel #						<0.0002	mg/l	TM30/PM14
Dissolved Selenium #						<0.0012	mg/l	TM30/PM14
Dissolved Zinc #						<0.0015	mg/l	TM30/PM14
Mercury Dissolved by CVAF #						<0.01	ug/l	TM61/PM38
Total Hardness Dissolved (as CaCO3)						<1	mg/l	TM30/PM0
Total Dissolved Sulphur						<0.01	mg/l	TM30/PM14
PAH MS								
Naphthalene #	0					<0.000014	mg/l	TM4/PM30
Acenaphthylene #	0					<0.000013	mg/l	TM4/PM30
Acenaphthene #	0					<0.000013	mg/l	TM4/PM30
Fluorene #	0					<0.000014	mg/l	TM4/PM30
Phenanthrene #	0					<0.000011	mg/l	TM4/PM30
Anthracene #	0					<0.000013	mg/l	TM4/PM30
Fluoranthene #	0					<0.000012	mg/l	TM4/PM30
Pyrene #	0					<0.000013	mg/l	TM4/PM30
Benzo(a)anthracene #	0					<0.000015	mg/l	TM4/PM30
Chrysene #	0					<0.000011	mg/l	TM4/PM30
Benzo(bk)fluoranthene #	0					<0.000018	mg/l	TM4/PM30
Benzo(a)pyrene #	0					<0.000016	mg/l	TM4/PM30
Indeno(123cd)pyrene #	0					<0.000011	mg/l	TM4/PM30
Dibenzo(ah)anthracene #						<0.00001	mg/l	TM4/PM30
Benzo(ghi)perylene #	0					<0.000011	mg/l	TM4/PM30
PAH 16 Total #	0					<0.000195	mg/l	TM4/PM30
Benzo(b)fluoranthene						<0.00001	mg/l	TM4/PM30
Benzo(k)fluoranthene						<0.00001	mg/l	TM4/PM30
PAH Surrogate % Recovery						<0	%	TM4/PM30
Methyl Tertiary Butyl Ether #						<0.001	mg/l	TM15/PM10
Benzene #						<0.001	mg/l	TM15/PM10
Toluene #						<0.002	mg/l	TM15/PM10
Ethylbenzene #						<0.002	mg/l	TM15/PM10
p/m-Xylene #						<0.003	mg/l	TM15/PM10
o-Xylene #						<0.002	mg/l	TM15/PM10
Surrogate Recovery Toluene D8						<0	%	TM15/PM10
Surrogate Recovery 4-Bromofluorobenzene						<0	%	TM15/PM10
EPH (C8-C40) #						<0.01	mg/l	TM5/PM30

Jones Environmen

Client Name:

Reference:

Location:

Contact:

JE Job No.:

e, P=plastic bottle

Please see attached notes for all abbreviations and acronyms

J E Sample No				
Sample ID				
Depth				
COC No / mis				
Containers				
Sample Date				
Sample Type				
Batch Numbe				
Date of Receip		LOD	Units	Method No.
TPH CWG				
Aliphatics				
>C5-C6 #		<0.005	mg/l	TM36/PM12
>C6-C8 #		<0.005	mg/l	TM36/PM12
>C8-C10 #		<0.005	mg/l	TM36/PM12
>C10-C12 #		<0.005	mg/l	TM5/PM30
>C12-C16 #		<0.01	mg/l	TM5/PM30
>C16-C21 #		<0.01	mg/l	TM5/PM30
>C21-C35 #		<0.01	mg/l	TM5/PM30
Total aliphatics C5-35 #		<0.01	mg/l	TM5/TM36/PM30
Total aliphatics C5-C12 #		<0.01	mg/l	TM5/TM36/PM30
Total aliphatics >C12-C35 #		<0.01	mg/l	TM5/TM36/PM30
Aromatics				
>C5-EC7 #		<0.005	mg/l	TM36/PM12
>EC7-EC8 #		<0.005	mg/l	TM36/PM12
>EC8-EC10 #		<0.005	mg/l	TM36/PM12
>EC10-EC12 #		<0.005	mg/l	TM5/PM30
>EC12-EC16 #		<0.01	mg/l	TM5/PM30
>EC16-EC21 #		<0.01	mg/l	TM5/PM30
>EC21-EC35 #		<0.01	mg/l	TM5/PM30
Total aromatics C5-35 #		<0.01	mg/l	TM5/PM30
Total aromatics C6-C12		<0.01	mg/l	TM5/TM36/PM30
Total aromatics >EC12-EC35 #		<0.01	mg/l	TM5/TM36/PM30
Total aliphatics and aromatics(C5-35)		<0.01	mg/l	TM5/TM36/PM30
Resorcinol		<0.0005	mg/l	TM26/PM0
Catechol		<0.0005	mg/l	TM26/PM0
Phenol		<0.0005	mg/l	TM26/PM0
m/p-cresol		<0.0005	mg/l	TM26/PM0
o-cresol		<0.0005	mg/l	TM26/PM0
Total cresols		<0.0005	mg/l	TM26/PM0
Xylenols		<0.0005	mg/l	TM26/PM0
1-naphthol		<0.0005	mg/l	TM26/PM0
2,3,5-trimethyl phenol		<0.0005	mg/l	TM26/PM0
2-isopropylphenol		<0.0005	mg/l	TM26/PM0
Total Speciated Phenols HPLC		<0.005	mg/l	TM26/PM0
Sulphate #		<0.05	mg/l	TM38/PM0
Chloride #		<0.3	mg/l	TM38/PM0
Nitrate as NO3 #		<0.2	mg/l	TM38/PM0
Nitrite as NO2 #		<0.02	mg/l	TM38/PM0
Free Cyanide #		<0.005	mg/l	TM89/PM0
Total Cyanide		<0.005	mg/l	TM89/PM0

Jones Environmen

Client Name:

Reference:

Location:

Contact:

JE Job No.:

[redacted]

le, P=plastic bottle

Please see attached notes for all abbreviations and acronyms

J E Sample No.										LOD	Units	Method No.
Sample ID												
Depth												
COC No / misc												
Containers												
Sample Date												
Sample Type												
Batch Number												
Date of Receipt												
Complex Cyanide										<0.01	mg/l	TM89/PM0
Ammoniacal Nitrogen as NH4 #										<0.03	mg/l	TM38/PM0
Dissolved Methane										<0.001	mg/l	TM25/PM0
Total Alkalinity as CaCO3 #										<1	mg/l	TM75/PM0
Sulphide										<0.3	mg/l	TM106/PM0
Thiocyanate										<0.02	mg/l	TM107/PM0
Dissolved Oxygen										<1	mg/l	TM59/PM0
Dissolved Organic Carbon										<2	mg/l	TM60/PM0
Electrical Conductivity @25C #										<2	uS/cm	TM76/PM0
Iron II										<0.02	mg/l	TM48/PM0
Iron III										<0.02	mg/l	TM30/TM48/PM0
Manganese II										<0.02	mg/l	TM62/PM0
pH #										<0.01	pH units	TM73/PM0
Total Organic Carbon										<2	mg/l	TM60/PM0
Total Suspended Solids										<10	mg/l	TM37/PM0

Jones Environment [redacted] tory

Client Name: [redacted]

Reference:

Location: [redacted] D RD

Contact: [redacted] oyes

JE Job No.:

Report : Product

Liquids/products: V=40ml vial, G=glass bottle, P=plastic bottle
$H=H_2SO_4$, Z=ZnAc, N=NaOH, $HN=HN0_3$

J E Sample No.	[redacted]												
Sample ID													
Depth													
COC No / misc													
Containers													
Sample Date													
Sample Type													
Batch Number													
Date of Receipt													
Whole Oil Trace												None	TM1/PM0
Carbon Range												None	TM1/PM0
Boiling Point Range											<50	Degrees C	TM1/PM0
Interpretation												None	TM1/PM0
Pristane/Phytane Ratio												None	TM1/PM0
nC17/Pristane Ratio												None	TM1/PM0
Age (± 2years) (Christensen & Larsen 1993)												Years	TM1/PM0

Please see attached notes for all abbreviations and acronyms



J E Sample No.												
Sample ID												
Depth											Please see attached notes for all abbreviations and acronyms	
COC No / misc												
Containers												
Sample Date												
Sample Type												
Batch Number											**LOD**	**Units**	**Method No.**
Date of Receipt												
SVOC MS												
Phenols												
2-Chlorophenol #											<0.001	mg/l	TM16/PM30
2-Methylphenol #											<0.0005	mg/l	TM16/PM30
2-Nitrophenol #											<0.0005	mg/l	TM16/PM30
2,4-Dichlorophenol #											<0.0005	mg/l	TM16/PM30
2,4-Dimethylphenol											<0.01	mg/l	TM16/PM30
2,4,5-Trichlorophenol #											<0.0005	mg/l	TM16/PM30
2,4,6-Trichlorophenol											<0.01	mg/l	TM16/PM30
4-Chloro-3-methylphenol #											<0.0005	mg/l	TM16/PM30
4-Methylphenol											<0.01	mg/l	TM16/PM30
4-Nitrophenol											<0.01	mg/l	TM16/PM30
Pentachlorophenol											<0.01	mg/l	TM16/PM30
Phenol											<0.01	mg/l	TM16/PM30
PAHs													
2-Chloronaphthalene #											<0.001	mg/l	TM16/PM30
2-Methylnaphthalene #											<0.001	mg/l	TM16/PM30
Phthalates													
Bis(2-ethylhexyl) phthalate											<0.01	mg/l	TM16/PM30
Butylbenzyl phthalate											<0.01	mg/l	TM16/PM30
Di-n-butyl phthalate #											<0.0015	mg/l	TM16/PM30
Di-n-Octyl phthalate											<0.01	mg/l	TM16/PM30
Diethyl phthalate #											<0.001	mg/l	TM16/PM30
Dimethyl phthalate											<0.01	mg/l	TM16/PM30
Other SVOCs													
1,2-Dichlorobenzene #											<0.001	mg/l	TM16/PM30
1,2,4-Trichlorobenzene #											<0.001	mg/l	TM16/PM30
1,3-Dichlorobenzene #											<0.001	mg/l	TM16/PM30
1,4-Dichlorobenzene #											<0.001	mg/l	TM16/PM30
2-Nitroaniline											<0.01	mg/l	TM16/PM30
2,4-Dinitrotoluene #											<0.0005	mg/l	TM16/PM30
2,6-Dinitrotoluene											<0.01	mg/l	TM16/PM30
3-Nitroaniline											<0.01	mg/l	TM16/PM30
4-Bromophenylphenylether #											<0.001	mg/l	TM16/PM30
4-Chloroaniline											<0.01	mg/l	TM16/PM30
4-Chlorophenylphenylether #											<0.001	mg/l	TM16/PM30
4-Nitroaniline #											<0.0005	mg/l	TM16/PM30
Azobenzene #											<0.0005	mg/l	TM16/PM30
Bis(2-chloroethoxy)methane #											<0.0005	mg/l	TM16/PM30
Bis(2-chloroethyl)ether #											<0.001	mg/l	TM16/PM30
Carbazole #											<0.0005	mg/l	TM16/PM30
Dibenzofuran #											<0.0005	mg/l	TM16/PM30
Hexachlorobenzene #											<0.001	mg/l	TM16/PM30
Hexachlorobutadiene #											<0.001	mg/l	TM16/PM30
Hexachlorocyclopentadiene											<0.01	mg/l	TM16/PM30
Hexachloroethane #											<0.001	mg/l	TM16/PM30
Isophorone #											<0.0005	mg/l	TM16/PM30
N-nitrosodi-n-propylamine #											<0.0005	mg/l	TM16/PM30
Nitrobenzene #											<0.001	mg/l	TM16/PM30

Jones Environmenta

Client Name: [redacted]

VOC Report : **Liquid**

Reference: A

Location: B

Contact: J

JE Job No.: 1

J E Sample No.									LOD	Units	Method No.
Sample ID											
Depth											
COC No / misc											
Containers	V										
Sample Date	0										
Sample Type	G										
Batch Number											
Date of Receipt	0										
VOC MS											
Dichlorodifluoromethane									<0.002	mg/l	TM15/PM10
Methyl Tertiary Butyl Ether #									<0.001	mg/l	TM15/PM10
Chloromethane #									<0.003	mg/l	TM15/PM10
Vinyl Chloride									<0.0001	mg/l	TM15/PM10
Bromomethane									<0.001	mg/l	TM15/PM10
Chloroethane #									<0.003	mg/l	TM15/PM10
Trichlorofluoromethane #									<0.003	mg/l	TM15/PM10
1,1-Dichloroethene (1,1 DCE) #									<0.003	mg/l	TM15/PM10
Dichloromethane (DCM) #									<0.003	mg/l	TM15/PM10
trans-1-2-Dichloroethene #									<0.003	mg/l	TM15/PM10
1,1-Dichloroethane #									<0.003	mg/l	TM15/PM10
cis-1-2-Dichloroethene #									<0.003	mg/l	TM15/PM10
2,2-Dichloropropane									<0.001	mg/l	TM15/PM10
Bromochloromethane #									<0.002	mg/l	TM15/PM10
Chloroform #									<0.002	mg/l	TM15/PM10
1,1,1-Trichloroethane #									<0.002	mg/l	TM15/PM10
1,1-Dichloropropene #									<0.003	mg/l	TM15/PM10
Carbon tetrachloride #									<0.002	mg/l	TM15/PM10
1,2-Dichloroethane #									<0.002	mg/l	TM15/PM10
Benzene #									<0.001	mg/l	TM15/PM10
Trichloroethene (TCE) #									<0.003	mg/l	TM15/PM10
1,2-Dichloropropane #									<0.002	mg/l	TM15/PM10
Dibromomethane #									<0.003	mg/l	TM15/PM10
Bromodichloromethane #									<0.002	mg/l	TM15/PM10
cis-1-3-Dichloropropene									<0.002	mg/l	TM15/PM10
Toluene #									<0.002	mg/l	TM15/PM10
trans-1-3-Dichloropropene									<0.002	mg/l	TM15/PM10
1,1,2-Trichloroethane #									<0.002	mg/l	TM15/PM10
Tetrachloroethene (PCE) #									<0.003	mg/l	TM15/PM10
1,3-Dichloropropane #									<0.002	mg/l	TM15/PM10
Dibromochloromethane #									<0.002	mg/l	TM15/PM10
1,2-Dibromoethane #									<0.002	mg/l	TM15/PM10
Chlorobenzene #									<0.002	mg/l	TM15/PM10
1,1,1,2-Tetrachloroethane #									<0.002	mg/l	TM15/PM10
Ethylbenzene #									<0.002	mg/l	TM15/PM10
p/m-Xylene #									<0.003	mg/l	TM15/PM10
o-Xylene #									<0.002	mg/l	TM15/PM10
Styrene									<0.002	mg/l	TM15/PM10
Bromoform #									<0.002	mg/l	TM15/PM10
Isopropylbenzene #									<0.003	mg/l	TM15/PM10
1,1,2,2-Tetrachloroethane									<0.004	mg/l	TM15/PM10
Bromobenzene #									<0.002	mg/l	TM15/PM10
1,2,3-Trichloropropane #									<0.003	mg/l	TM15/PM10
Propylbenzene #									<0.003	mg/l	TM15/PM10
2-Chlorotoluene #									<0.003	mg/l	TM15/PM10
1,3,5-Trimethylbenzene #									<0.003	mg/l	TM15/PM10
4-Chlorotoluene #									<0.003	mg/l	TM15/PM10
tert-Butylbenzene #									<0.003	mg/l	TM15/PM10
1,2,4-Trimethylbenzene #									<0.003	mg/l	TM15/PM10
sec-Butylbenzene #									<0.003	mg/l	TM15/PM10
4-Isopropyltoluene #									<0.003	mg/l	TM15/PM10
1,3-Dichlorobenzene #									<0.003	mg/l	TM15/PM10
1,4-Dichlorobenzene #									<0.003	mg/l	TM15/PM10
n-Butylbenzene #									<0.003	mg/l	TM15/PM10
1,2-Dichlorobenzene #									<0.003	mg/l	TM15/PM10
1,2-Dibromo-3-chloropropane									<0.002	mg/l	TM15/PM10
1,2,4-Trichlorobenzene									<0.003	mg/l	TM15/PM10
Hexachlorobutadiene									<0.003	mg/l	TM15/PM10
1,2,3-Trichlorobenzene									<0.003	mg/l	TM15/PM10
Surrogate Recovery Toluene D8									<0	%	TM15/PM10
Surrogate Recovery 4-Bromofluorobenzene									<0	%	TM15/PM10

Please see attached notes for all abbreviations and acronyms

NOTES TO ACCOMPANY ALL SCHEDULES AND REPORTS

JE Job No.: 13/2625

SOILS

Please note we are only MCERTS accredited for sand, loam and clay and any other matrix is outside our scope of accreditation.

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation has been performed on clay, sand and loam, only samples that are predominantly these matrices, or combinations of them will be within our MCERTS scope. If samples are not one of a combination of the above matrices they will not be marked as MCERTS accredited.

It is assumed that you have taken representative samples on site and require analysis on a representative subsample. Stones will generally be included unless we are requested to remove them.

All samples will be discarded one month after the date of reporting, unless we are instructed to the contrary. If we are instructed to keep samples, a storage charge of £1 (1.5 Euros) per sample per month will be applied until we are asked to dispose of them.

If you have not already done so, please send us a purchase order if this is required by your company.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

All analysis is reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected. Samples are dried at 35°C ±5°C unless otherwise stated. Moisture content for CEN Leachate tests are dried at 105°C ±5°C.

WATERS

Please note we are not a Drinking Water Inspectorate (DWI) Approved Laboratory . It is important that detection limits are carefully considered when requesting water analysis.

UKAS accreditation applies to surface water and groundwater and one other matrix which is analysis specific, any other liquids are outside our scope of accreditation

As surface waters require different sample preparation to groundwaters the laboratory must be informed of the water type when submitting samples.

DEVIATING SAMPLES

Samples must be received in a condition appropriate to the requested analyses. All samples should be submitted to the laboratory in suitable containers with sufficient ice packs to sustain an appropriate temperature for the requested analysis. If this is not the case you will be informed and any test results that may be compromised highlighted on your deviating samples report.

SURROGATES

Surrogate compounds are added during the preparation process to monitor recovery of analytes. However low recovery in soils is often due to peat, clay or other organic rich matrices. For waters this can be due to oxidants, surfactants, organic rich sediments or remediation fluids. Acceptable limits for most organic methods are 70 - 130% and for VOCs are 50 - 150%. When surrogate recoveries are outside the performance criteria but the associated AQC passes this is assumed to be due to matrix effect. Results are not surrogate corrected.

NOTE

Data is only accredited when all the requirements of our Quality System have been met. In certain circumstances where the requirements have not been met, the laboratory may issue the data in an interim report but will remove the accreditation, in this instance results should be considered indicative only. Where possible samples will be re-extracted and a final report issued with accredited results. Please do not hesitate to contact the laboratory if further details are required of the circumstances which have led to the removal of accreditation.

ABBREVIATIONS and ACRONYMS USED

#	UKAS accredited.
B	Indicates analyte found in associated method blank.
DR	Dilution required.
M	MCERTS accredited.
NA	Not applicable
NAD	No Asbestos Detected.
ND	None Detected (usually refers to VOC and/SVOC TICs).
NDP	No Determination Possible
SS	Calibrated against a single substance.
SV	Surrogate recovery outside performance criteria. This may be due to a matrix effect.
W	Results expressed on as received basis.
+	AQC failure, accreditation has been removed from this result, if appropriate, see 'Note' on previous page.
++	Result outside calibration range, results should be considered as indicative only and are not accredited.
*	Analysis subcontracted to a Jones Environmental approved laboratory.
CO	Suspected carry over
NFD	No Fibres Detected

JE Job No 13/2625

Test Method No.	Description	Prep Method No. (if appropriate)	Description	UKAS	MCERTS (soils only)	Analysis done on As Received (AR) or Air Dried (AD)	Solid Results expressed on Dry/Wet basis
TM1	Whole Oil by GC-FID	PM0	No Preparation			AR	
TM4	16 PAH by GC-MS, modified USEPA 8270	PM30	Magnetic stirrer extraction				
TM4	16 PAH by GC-MS, modified USEPA 8270	PM30	Magnetic stirrer extraction	Yes			
TM5	EPH by GC-FID, modified USEPA 8015	PM30	Magnetic stirrer extraction	Yes			
TM5	EPH by GC-FID, modified USEPA 8015	PM30	Magnetic stirrer extraction	Yes		AR	
TM5/TM36	TPH CWG by GC-FID	PM30	Magnetic stirrer extraction				
TM5/TM36	TPH CWG by GC-FID	PM30	Magnetic stirrer extraction	Yes			
TM15	VOC - Target by GC-MS, modified USEPA 8260	PM10	VOC GC-MS				
TM15	VOC - Target by GC-MS, modified USEPA 8260	PM10	VOC GC-MS	Yes			
TM16	SVOC - Target by GC-MS, modified USEPA 8270	PM30	Magnetic stirrer extraction				
TM16	SVOC - Target by GC-MS, modified USEPA 8270	PM30	Magnetic stirrer extraction	Yes			
TM25	Dissolved Methane, Ethane, Ethene by GC-FID	PM0	No Preparation				
TM26	Phenols by HPLC	PM0	No Preparation				
TM30	Metals by ICP-OES	PM0	No Preparation				
TM30	Metals by ICP-OES	PM14	Metals by ICP (Waters)				
TM30	Metals by ICP-OES	PM14	Metals by ICP (Waters)	Yes			
TM30/TM48	Ferric Iron by ICP-OES and Photometer	PM0	No Preparation				
TM36	GRO by Headspace GC-FID	PM12	GRO GC-FID	Yes			
TM37	Total Suspended Solids- gravimetric	PM0	No Preparation				
TM38	SO4,Cl,NO3,NO2,F,PO4, Amm N2,ThioCN, Hex Cr by Aquakem	PM0	No Preparation	Yes			
TM48	Ferrous Iron by ICP-OES and Colourimetry	PM0	No Preparation				
TM59	Dissolved oxygen using DO meter	PM0	No Preparation				
TM60	TOC/DOC by NDIR	PM0	No Preparation				
TM61	Mercury - low level CVAF	PM38	Mercury CVAF	Yes			
TM62	Mn (II) by Colourimetric measurement	PM0	No Preparation				
TM73	pH in by Metrohm	PM0	No Preparation	Yes			
TM75	Alkalinity by Metrohm	PM0	No Preparation	Yes			
TM76	Electrical Conductivity by Metrohm	PM0	No Preparation	Yes			
TM89	Cyanide by FIA	PM0	No Preparation				
TM89	Cyanide by FIA	PM0	No Preparation	Yes			
TM106	Sulphide by CFA	PM0	No Preparation				
TM107	Thiocyanate by CFA	PM0	No Preparation				

Jones Environmental Laboratory

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WYG
Arndale Court
Arndale Centre
Otley Road
Leeds
LS6 2UJ

No.4225

Attention :	Jonathan Boyes
Date :	22nd February, 2013
Your reference :	A74754-28
Our reference :	Test Report 13/1769 Batch 1
Location :	BRADFORD RD
Date samples received :	13th February, 2013
Status :	Final report
Issue :	1

Thirteen samples were received for analysis on 13th February, 2013. Please find attached our Test Report which should be read with notes at the end of the report and should include all sections if reproduced. Interpretations and opinions are outside the scope of any accreditation, and all results relate only to samples supplied.
All analysis is carried out on as received samples and reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected.

Compiled By:

Bruce Leslie
Project Co-ordinator

Bob Millward B.Sc
Principal Chemist

Jones Environmental Laboratory

Client Name: WYG

Reference: A74754-28

Location: BRADFORD RD

Contact: Jonathan Boyes

JE Job No.: 13/1769

Report : Liquid

Liquids/products: V=40ml vial, G=glass bottle, P=plastic bottle Z=ZnAc, N=NaOH, HN=

Please see attached notes for all abbreviations and acronyms

J E Sample No.	1-9	10-19	20-29	30-32,34-38	39-42	[redacted]	63-66	67-73	[redacted]	LOD	Units	Method No.
Sample ID	BH2	BH102	RBH101	DUP120213	RBH102		TB110213	DUP110213				
Depth												
COC No / misc												
Containers	V H N Z P G	V H HCL N Z P G	V H HCL N Z P G	V H N Z P G	V		V P G	V H N Z P G				
Sample Date	12/02/2013	12/02/2013	12/02/2013	12/02/2013	12/02/2013		11/02/2013	11/02/2013				
Sample Type	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water		Ground Water	Ground Water				
Batch Number	1	1	1	1	1		1	1				
Date of Receipt	13/02/2013	13/02/2013	13/02/2013	13/02/2013	13/02/2013		13/02/2013	13/02/2013				
Dissolved Arsenic #	0.0013	0.0081	0.0028	0.0049	-		<0.0009	0.0035		<0.0009	mg/l	TM30/PM14
Dissolved Cadmium #	<0.00003	0.00034	0.00018	0.00048	-		<0.00003	<0.00003		<0.00003	mg/l	TM30/PM14
Total Dissolved Chromium #	<0.0002	<0.0002	0.0005	<0.0002	-		<0.0002	<0.0002		<0.0002	mg/l	TM30/PM14
Dissolved Copper #	<0.003	<0.003	<0.003	0.007	-		<0.003	<0.003		<0.003	mg/l	TM30/PM14
Total Dissolved Iron #	-	<20	235	-	-		-	-		<20	ug/l	TM30/PM14
Total Dissolved Iron #	<0.0047	0.0184	0.2352	0.1137	-		<0.0047	0.0217		<0.0047	mg/l	TM30/PM14
Dissolved Lead #	0.0034	0.0076	0.0081	0.0030	-		0.0076	0.0062		<0.0004	mg/l	TM30/PM14
Dissolved Nickel #	<0.0002	0.0019	0.0013	0.0033	-		<0.0002	<0.0002		<0.0002	mg/l	TM30/PM14
Dissolved Selenium #	<0.0012	<0.0012	<0.0012	<0.0012	-		<0.0012	<0.0012		<0.0012	mg/l	TM30/PM14
Dissolved Zinc #	0.0020	<0.0015	0.0204	0.0347	-		<0.0015	<0.0015		<0.0015	mg/l	TM30/PM14
Mercury Dissolved by CVAF #	<0.01	0.01	<0.01	<0.01	-		<0.01	<0.01		<0.01	ug/l	TM61/PM38
Total Hardness Dissolved (as CaCO3)	217	417	218	-	-		45	433		<1	mg/l	TM30/PM0
Total Dissolved Sulphur	18.56	46.43	28.50	29.77	-		3.99	50.07		<0.01	mg/l	TM30/PM14
PAH MS												
Naphthalene #	0.000040	0.000280	0.001710	0.000620	-		0.000050	0.000020		<0.000014	mg/l	TM4/PM30
Acenaphthylene #	<0.000013	0.000080	0.000140	0.000040	-		<0.000013	<0.000013		<0.000013	mg/l	TM4/PM30
Acenaphthene #	<0.000013	0.002580	0.000060	0.000020	-		<0.000013	<0.000013		<0.000013	mg/l	TM4/PM30
Fluorene #	<0.000014	0.000440	0.000100	0.000030	-		<0.000014	<0.000014		<0.000014	mg/l	TM4/PM30
Phenanthrene #	0.000020	0.000160	0.000210	0.000070	-		<0.000011	<0.000011		<0.000011	mg/l	TM4/PM30
Anthracene #	<0.000013	0.000080	0.000040	0.000020	-		<0.000013	<0.000013		<0.000013	mg/l	TM4/PM30
Fluoranthene #	0.000030	0.000060	0.000100	0.000020	-		<0.000012	0.000020		<0.000012	mg/l	TM4/PM30
Pyrene #	0.000030	0.000090	0.000090	0.000020	-		<0.000013	0.000020		<0.000013	mg/l	TM4/PM30
Benzo(a)anthracene #	0.000020	<0.000015	0.000030	<0.000015	-		<0.000015	<0.000015		<0.000015	mg/l	TM4/PM30
Chrysene #	0.000020	<0.000011	0.000020	<0.000011	-		<0.000011	<0.000011		<0.000011	mg/l	TM4/PM30
Benzo(bk)fluoranthene #	0.000040	<0.000018	0.000040	<0.000018	-		<0.000018	<0.000018		<0.000018	mg/l	TM4/PM30
Benzo(a)pyrene #	0.000020	<0.000016	0.000020	<0.000016	-		<0.000016	<0.000016		<0.000016	mg/l	TM4/PM30
Indeno(123cd)pyrene #	<0.000011	<0.000011	<0.000011	<0.000011	-		<0.000011	<0.000011		<0.000011	mg/l	TM4/PM30
Dibenzo(ah)anthracene #	<0.00001	<0.00001	<0.00001	<0.00001	-		<0.00001	<0.00001		<0.00001	mg/l	TM4/PM30
Benzo(ghi)perylene #	<0.000011	<0.000011	<0.000011	<0.000011	-		<0.000011	<0.000011		<0.000011	mg/l	TM4/PM30
PAH 16 Total #	0.000220	0.003770	0.002560	0.000840	-		<0.000195	<0.000195		<0.000195	mg/l	TM4/PM30
Benzo(b)fluoranthene	0.00003	<0.00001	0.00003	<0.00001	-		<0.00001	<0.00001		<0.00001	mg/l	TM4/PM30
Benzo(k)fluoranthene	0.00001	<0.00001	0.00001	<0.00001	-		<0.00001	<0.00001		<0.00001	mg/l	TM4/PM30
PAH Surrogate % Recovery	89	84	90	97	-		88	95		<0	%	TM4/PM30
Methyl Tertiary Butyl Ether #	<0.001	<0.001	<0.001	<0.001	-		<0.001	<0.001		<0.001	mg/l	TM15/PM10
Benzene #	<0.001	<0.001	<0.001	<0.001	-		<0.001	<0.001		<0.001	mg/l	TM15/PM10
Toluene #	<0.002	<0.002	0.004	0.004	-		<0.002	<0.002		<0.002	mg/l	TM15/PM10
Ethylbenzene #	<0.002	<0.002	<0.002	<0.002	-		<0.002	<0.002		<0.002	mg/l	TM15/PM10
p/m-Xylene #	<0.003	<0.003	<0.003	<0.003	-		<0.003	<0.003		<0.003	mg/l	TM15/PM10
o-Xylene #	<0.002	<0.002	<0.002	<0.002	-		<0.002	<0.002		<0.002	mg/l	TM15/PM10
Surrogate Recovery Toluene D8	122	109	104	119	-		115	110		<0	%	TM15/PM10
Surrogate Recovery 4-Bromofluorobenzene	115	106	104	113	-		109	112		<0	%	TM15/PM10

Client Name: WYG **Report : Liquid**

Reference: A74754-28

Location: BRADFORD RD

Contact: Jonathan Boyes **roducts:** V=40ml vial, G tle, P=plastic bottle

JE Job No.: 13/1769 , Z=ZnAc, N=NaOH, HN=

J E Sample No.	1-9	10-19	20-29	30-32,34-38	39-42		63-66	67-73		LOD	Units	Method No.
Sample ID	BH2	BH102	RBH101	DUP120213	RBH102		TB110213	DUP110213				
Depth												
COC No / misc												
Containers	V H N Z P G	V H HCL N Z P G	V H HCL N Z P G	V H N Z P G	V	V	V P G	V H N Z P G				
Sample Date	12/02/2013	12/02/2013	12/02/2013	12/02/2013	12/02/2013	1	11/02/2013	11/02/2013				
Sample Type	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Gr	Ground Water	Ground Water				
Batch Number	1	1	1	1	1		1	1				
Date of Receipt	13/02/2013	13/02/2013	13/02/2013	13/02/2013	13/02/2013	1	13/02/2013	13/02/2013				
EPH (C8-C40) #	<0.01	<0.01	<0.01	<0.01	-		<0.01	<0.01		<0.01	mg/l	TM5/PM30
TPH CWG												
Aliphatics												
>C5-C6 #	-	<0.005	-	-	<0.005		-	-		<0.005	mg/l	TM36/PM12
>C6-C8 #	-	<0.005	-	-	<0.005		-	-		<0.005	mg/l	TM36/PM12
>C8-C10 #	-	<0.005	-	-	0.039		-	-		<0.005	mg/l	TM36/PM12
>C10-C12 #	-	<0.005	-	-	NDP		-	-		<0.005	mg/l	TM5/PM30
>C12-C16 #	-	<0.01	-	-	NDP		-	-		<0.01	mg/l	TM5/PM30
>C16-C21 #	-	<0.01	-	-	NDP		-	-		<0.01	mg/l	TM5/PM30
>C21-C35 #	-	<0.01	-	-	NDP		-	-		<0.01	mg/l	TM5/PM30
Total aliphatics C5-35 #	-	<0.01	-	-	NDP		-	-		<0.01	mg/l	TM5/TM36/PM30
Total aliphatics C5-C12 #	-	<0.01	-	-	NDP		-	-		<0.01	mg/l	TM5/TM36/PM30
Total aliphatics >C12-C35 #	-	<0.01	-	-	NDP		-	-		<0.01	mg/l	TM5/TM36/PM30
Aromatics												
>C5-EC7 #	-	<0.005	-	-	<0.005		-	-		<0.005	mg/l	TM36/PM12
>EC7-EC8 #	-	<0.005	-	-	0.045		-	-		<0.005	mg/l	TM36/PM12
>EC8-EC10 #	-	<0.005	-	-	<0.005		-	-		<0.005	mg/l	TM36/PM12
>EC10-EC12 #	-	<0.005	-	-	NDP		-	-		<0.005	mg/l	TM5/PM30
>EC12-EC16 #	-	<0.01	-	-	NDP		-	-		<0.01	mg/l	TM5/PM30
>EC16-EC21 #	-	<0.01	-	-	NDP		-	-		<0.01	mg/l	TM5/PM30
>EC21-EC35 #	-	<0.01	-	-	NDP		-	-		<0.01	mg/l	TM5/PM30
Total aromatics C5-35 #	-	<0.01	-	-	NDP		-	-		<0.01	mg/l	TM5/PM30
Total aromatics C6-C12	-	<0.01	-	-	NDP		-	-		<0.01	mg/l	TM5/TM36/PM30
Total aromatics >EC12-EC35 #	-	<0.01	-	-	NDP		-	-		<0.01	mg/l	TM5/TM36/PM30
Total aliphatics and aromatics(C5-35) #	-	<0.01	-	-	NDP		-	-		<0.01	mg/l	TM5/TM36/PM30
Resorcinol	<0.0005	<0.0005	<0.0005	<0.0005	-		<0.0005	<0.0005		<0.0005	mg/l	TM26/PM0
Catechol	<0.0005	<0.0005	<0.0005	<0.0005	-		<0.0005	<0.0005		<0.0005	mg/l	TM26/PM0
Phenol	<0.0005	<0.0005	0.0041	<0.0005	-		<0.0005	<0.0005		<0.0005	mg/l	TM26/PM0
m/p-cresol	<0.0005	<0.0005	0.0042	<0.0005	-		<0.0005	<0.0005		<0.0005	mg/l	TM26/PM0
o-cresol	<0.0005	<0.0005	0.0041	<0.0005	-		<0.0005	<0.0005		<0.0005	mg/l	TM26/PM0
Total cresols	<0.0005	<0.0005	0.0083	<0.0005	-		<0.0005	<0.0005		<0.0005	mg/l	TM26/PM0
Xylenols	<0.0005	<0.0005	<0.0005	<0.0005	-		<0.0005	<0.0005		<0.0005	mg/l	TM26/PM0
1-naphthol	<0.0005	<0.0005	<0.0005	<0.0005	-		<0.0005	<0.0005		<0.0005	mg/l	TM26/PM0
2,3,5-trimethyl phenol	<0.0005	<0.0005	<0.0005	<0.0005	-		<0.0005	<0.0005		<0.0005	mg/l	TM26/PM0
2-isopropylphenol	<0.0005	<0.0005	<0.0005	<0.0005	-		<0.0005	<0.0005		<0.0005	mg/l	TM26/PM0
Total Speciated Phenols HPLC	<0.005	<0.005	0.012	<0.005	-		<0.005	<0.005		<0.005	mg/l	TM26/PM0
Sulphate #	53.35	152.20	93.80	89.74	-		11.50	159.39		<0.05	mg/l	TM38/PM0
Chloride #	18.8	309.4	13.2	13.3	-		13.2	17.2		<0.3	mg/l	TM38/PM0
Nitrate as NO3 #	-	<0.2	<0.2	-	-		-	-		<0.2	mg/l	TM38/PM0
Nitrite as NO2 #	-	<0.02	<0.02	-	-		-	-		<0.02	mg/l	TM38/PM0

Please see attached notes for all abbreviations and acronyms

Jones Environmental Laboratory

Client Name: WYG

Reference: A74754-28

Location: BRADFORD RD

Contact: Jonathan Boyes

JE Job No.: 13/1769

Report : Liquid

Liquids/products: V=40ml vial, G=glass bottle, P=plastic bottle Z=ZnAc, N=NaOH, HN=

Please see attached notes for all abbreviations and acronyms

J E Sample No.	1-9	10-19	20-29	30-32,34-38	39-42			63-66	67-73		LOD	Units	Method No.
Sample ID	BH2	BH102	RBH101	DUP120213	RBH102			TB110213	DUP110213				
Depth													
COC No / misc													
Containers	V H N Z P G	V H HCL N Z P G	V H HCL N Z P G	V H N Z P G	V		G	V P G	V H N Z P G				
Sample Date	12/02/2013	12/02/2013	12/02/2013	12/02/2013	12/02/2013		3	11/02/2013	11/02/2013				
Sample Type	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water		r	Ground Water	Ground Water				
Batch Number	1	1	1	1	1			1	1				
Date of Receipt	13/02/2013	13/02/2013	13/02/2013	13/02/2013	13/02/2013		3	13/02/2013	13/02/2013				
Free Cyanide #	<0.01	<0.01	<0.01	<0.01	-			<0.01	<0.01		<0.01	mg/l	TM89/PM0
Total Cyanide	0.009	0.023	0.014	0.009	-			<0.005	0.028		<0.005	mg/l	TM89/PM0
Complex Cyanide	<0.01	0.02	0.01	<0.01	-			<0.01	0.03		<0.01	mg/l	TM89/PM0
Ammoniacal Nitrogen as NH4 #	0.30	0.86	0.58	0.56	-			<0.03	0.25		<0.03	mg/l	TM38/PM0
Dissolved Methane	-	494	134	-	-			-	-		<1	ug/l	TM25/PM0
Total Alkalinity as CaCO3 #	-	816	4522	-	-			-	-		<1	mg/l	TM75/PM0
Sulphide	<0.3	<0.3	<0.3	<0.3	-			<0.3	<0.3		<0.3	mg/l	TM106/PM0
Thiocyanate	<0.02	0.05	<0.02	<0.02	-			<0.02	<0.02		<0.02	mg/l	TM107/PM0
Dissolved Oxygen	-	7	<1	-	-			-	-		<1	mg/l	TM59/PM0
Dissolved Organic Carbon	<2	14	11	13	-			2	5		<2	mg/l	TM60/PM0
Electrical Conductivity @25C #	532	1908	655	692	-			174	902		<2	uS/cm	TM76/PM0
Iron II	-	4.50	117.00	-	-			-	-		<0.02	mg/l	TM48/PM0
Iron III	-	3.55	2301.00	-	-			-	-		<0.02	mg/l	TM30/TM48/PM0
Manganese II	-	2.70	27.32	-	-			-	-		<0.02	mg/l	TM62/PM0
pH #	7.55	7.31	8.08	7.38	-			7.33	7.42		<0.01	pH units	TM73/PM0
Total Organic Carbon	-	15	11	-	-			-	-		<2	mg/l	TM60/PM0
Total Suspended Solids	6855	444	66255	118960	-			<10	2210		<10	mg/l	TM37/PM0

Jones Environmental Laboratory

Client Name:	WYG
Reference:	A74754-28
Location:	BRADFORD RD
Contact:	Jonathan Boyes
JE Job No.:	13/1769

Report : Liquid

Liquids/products: V=40ml vial, G=glass bottle, P=plastic bottle
$H=H_2SO_4$, Z=ZnAc, N=NaOH, $HN=HN0_3$

Please see attached notes for all abbreviations and acronyms

	[redacted]	LOD	Units	Method No.
J E Sample No.				
Sample ID				
Depth				
COC No / misc				
Containers				
Sample Date				
Sample Type				
Batch Number				
Date of Receipt				
Dissolved Arsenic #		<0.0009	mg/l	TM30/PM14
Dissolved Cadmium #		<0.00003	mg/l	TM30/PM14
Total Dissolved Chromium #		<0.0002	mg/l	TM30/PM14
Dissolved Copper #		<0.003	mg/l	TM30/PM14
Total Dissolved Iron #		<20	ug/l	TM30/PM14
Total Dissolved Iron #		<0.0047	mg/l	TM30/PM14
Dissolved Lead #		<0.0004	mg/l	TM30/PM14
Dissolved Nickel #		<0.0002	mg/l	TM30/PM14
Dissolved Selenium #		<0.0012	mg/l	TM30/PM14
Dissolved Zinc #		<0.0015	mg/l	TM30/PM14
Mercury Dissolved by CVAF #		<0.01	ug/l	TM61/PM38
Total Hardness Dissolved (as CaCO3)		<1	mg/l	TM30/PM0
Total Dissolved Sulphur		<0.01	mg/l	TM30/PM14
PAH MS				
Naphthalene #		<0.000014	mg/l	TM4/PM30
Acenaphthylene #		<0.000013	mg/l	TM4/PM30
Acenaphthene #		<0.000013	mg/l	TM4/PM30
Fluorene #		<0.000014	mg/l	TM4/PM30
Phenanthrene #		<0.000011	mg/l	TM4/PM30
Anthracene #		<0.000013	mg/l	TM4/PM30
Fluoranthene #		<0.000012	mg/l	TM4/PM30
Pyrene #		<0.000013	mg/l	TM4/PM30
Benzo(a)anthracene #		<0.000015	mg/l	TM4/PM30
Chrysene #		<0.000011	mg/l	TM4/PM30
Benzo(bk)fluoranthene #		<0.000018	mg/l	TM4/PM30
Benzo(a)pyrene #		<0.000016	mg/l	TM4/PM30
Indeno(123cd)pyrene #		<0.000011	mg/l	TM4/PM30
Dibenzo(ah)anthracene #		<0.00001	mg/l	TM4/PM30
Benzo(ghi)perylene #		<0.000011	mg/l	TM4/PM30
PAH 16 Total #		<0.000195	mg/l	TM4/PM30
Benzo(b)fluoranthene		<0.00001	mg/l	TM4/PM30
Benzo(k)fluoranthene		<0.00001	mg/l	TM4/PM30
PAH Surrogate % Recovery		<0	%	TM4/PM30
Methyl Tertiary Butyl Ether #		<0.001	mg/l	TM15/PM10
Benzene #		<0.001	mg/l	TM15/PM10
Toluene #		<0.002	mg/l	TM15/PM10
Ethylbenzene #		<0.002	mg/l	TM15/PM10
p/m-Xylene #		<0.003	mg/l	TM15/PM10
o-Xylene #		<0.002	mg/l	TM15/PM10
Surrogate Recovery Toluene D8		<0	%	TM15/PM10
Surrogate Recovery 4-Bromofluorobenzene		<0	%	TM15/PM10

Client Name: WYG

Reference: A74754-28

Location: BRADFORD RD

Contact: Jonathan Boyes

JE Job No.: 13/1769

Report : Liquid

Liquids/products: V=40ml vial, G=glass bottle, P=plastic bottle
H=H_2SO_4, Z=ZnAc, N=NaOH, HN=$HN0_3$

Please see attached notes for all abbreviations and acronyms

J E Sample No.	[redacted]									LOD	Units	Method No.
Sample ID												
Depth												
COC No / misc												
Containers	V								G			
Sample Date	1								3			
Sample Type	G								r			
Batch Number												
Date of Receipt	1								3			
EPH (C8-C40) #										<0.01	mg/l	TM5/PM30
TPH CWG												
Aliphatics												
>C5-C6 #										<0.005	mg/l	TM36/PM12
>C6-C8 #										<0.005	mg/l	TM36/PM12
>C8-C10 #										<0.005	mg/l	TM36/PM12
>C10-C12 #										<0.005	mg/l	TM5/PM30
>C12-C16 #										<0.01	mg/l	TM5/PM30
>C16-C21 #										<0.01	mg/l	TM5/PM30
>C21-C35 #										<0.01	mg/l	TM5/PM30
Total aliphatics C5-35 #										<0.01	mg/l	TM5/TM36/PM30
Total aliphatics C5-C12 #										<0.01	mg/l	TM5/TM36/PM30
Total aliphatics >C12-C35 #										<0.01	mg/l	TM5/TM36/PM30
Aromatics												
>C5-EC7 #										<0.005	mg/l	TM36/PM12
>EC7-EC8 #										<0.005	mg/l	TM36/PM12
>EC8-EC10 #										<0.005	mg/l	TM36/PM12
>EC10-EC12 #										<0.005	mg/l	TM5/PM30
>EC12-EC16 #										<0.01	mg/l	TM5/PM30
>EC16-EC21 #										<0.01	mg/l	TM5/PM30
>EC21-EC35 #										<0.01	mg/l	TM5/PM30
Total aromatics C5-35 #										<0.01	mg/l	TM5/PM30
Total aromatics C6-C12										<0.01	mg/l	TM5/TM36/PM30
Total aromatics >EC12-EC35 #										<0.01	mg/l	TM5/TM36/PM30
Total aliphatics and aromatics(C5-35) #										<0.01	mg/l	TM5/TM36/PM30
Resorcinol										<0.0005	mg/l	TM26/PM0
Catechol										<0.0005	mg/l	TM26/PM0
Phenol										<0.0005	mg/l	TM26/PM0
m/p-cresol										<0.0005	mg/l	TM26/PM0
o-cresol										<0.0005	mg/l	TM26/PM0
Total cresols										<0.0005	mg/l	TM26/PM0
Xylenols										<0.0005	mg/l	TM26/PM0
1-naphthol										<0.0005	mg/l	TM26/PM0
2,3,5-trimethyl phenol										<0.0005	mg/l	TM26/PM0
2-isopropylphenol										<0.0005	mg/l	TM26/PM0
Total Speciated Phenols HPLC										<0.005	mg/l	TM26/PM0
Sulphate #										<0.05	mg/l	TM38/PM0
Chloride #										<0.3	mg/l	TM38/PM0
Nitrate as NO3 #										<0.2	mg/l	TM38/PM0
Nitrite as NO2 #										<0.02	mg/l	TM38/PM0

Jones Environmental Laboratory

Client Name: WYG

Reference: A74754-28

Location: BRADFORD RD

Contact: Jonathan Boyes

JE Job No.: 13/1769

Report : Liquid

Liquids/products: V=40ml vial, G=glass bottle, P=plastic bottle

H=H_2SO_4, Z=ZnAc, N=NaOH, HN=$HN0_3$

Please see attached notes for all abbreviations and acronyms

J E Sample No.	[redacted]										**LOD**	**Units**	**Method No.**
Sample ID													
Depth													
COC No / misc													
Containers	V									G			
Sample Date	1									3			
Sample Type	G									er			
Batch Number													
Date of Receipt	1									3			
Free Cyanide #											<0.01	mg/l	TM89/PM0
Total Cyanide											<0.005	mg/l	TM89/PM0
Complex Cyanide											<0.01	mg/l	TM89/PM0
Ammoniacal Nitrogen as NH4 #											<0.03	mg/l	TM38/PM0
Dissolved Methane											<1	ug/l	TM25/PM0
Total Alkalinity as CaCO3 #											<1	mg/l	TM75/PM0
Sulphide											<0.3	mg/l	TM106/PM0
Thiocyanate											<0.02	mg/l	TM107/PM0
Dissolved Oxygen											<1	mg/l	TM59/PM0
Dissolved Organic Carbon											<2	mg/l	TM60/PM0
Electrical Conductivity @25C #											<2	uS/cm	TM76/PM0
Iron II											<0.02	mg/l	TM48/PM0
Iron III											<0.02	mg/l	TM30/TM48/PM0
Manganese II											<0.02	mg/l	TM62/PM0
pH #											<0.01	pH units	TM73/PM0
Total Organic Carbon											<2	mg/l	TM60/PM0
Total Suspended Solids											<10	mg/l	TM37/PM0

Jones Environmental Laboratory

Client Name: WYG

SVOC Report : **Liquid**

Reference: A74754-28

Location: BRADFORD RD

Contact: Jonathan Boyes

JE Job No.: 13/1769

J E Sample No.	[redacted]										Please see attached notes for all abbreviations and acronyms		
Sample ID													
Depth													
COC No / misc													
Containers	V G												
Sample Date	1 3												
Sample Type	G er												
Batch Number													
Date of Receipt	1 3												
												LOD	**Units**	**Method No.**
SVOC MS														
Phenols														
2-Chlorophenol #												<1	ug/l	TM16/PM30
2-Methylphenol #												<0.5	ug/l	TM16/PM30
2-Nitrophenol #												<0.5	ug/l	TM16/PM30
2,4-Dichlorophenol #												<0.5	ug/l	TM16/PM30
2,4-Dimethylphenol												<10	ug/l	TM16/PM30
2,4,5-Trichlorophenol #												<0.5	ug/l	TM16/PM30
2,4,6-Trichlorophenol												<10	ug/l	TM16/PM30
4-Chloro-3-methylphenol #												<0.5	ug/l	TM16/PM30
4-Methylphenol												<10	ug/l	TM16/PM30
4-Nitrophenol												<10	ug/l	TM16/PM30
Pentachlorophenol												<10	ug/l	TM16/PM30
Phenol												<10	ug/l	TM16/PM30
PAHs														
2-Chloronaphthalene #												<1	ug/l	TM16/PM30
2-Methylnaphthalene #												<1	ug/l	TM16/PM30
Phthalates														
Bis(2-ethylhexyl) phthalate												<10	ug/l	TM16/PM30
Butylbenzyl phthalate												<10	ug/l	TM16/PM30
Di-n-butyl phthalate #												<1.5	ug/l	TM16/PM30
Di-n-Octyl phthalate												<10	ug/l	TM16/PM30
Diethyl phthalate #												<1	ug/l	TM16/PM30
Dimethyl phthalate												<10	ug/l	TM16/PM30
Other SVOCs														
1,2-Dichlorobenzene #												<1	ug/l	TM16/PM30
1,2,4-Trichlorobenzene #												<1	ug/l	TM16/PM30
1,3-Dichlorobenzene #												<1	ug/l	TM16/PM30
1,4-Dichlorobenzene #												<1	ug/l	TM16/PM30
2-Nitroaniline												<10	ug/l	TM16/PM30
2,4-Dinitrotoluene #												<0.5	ug/l	TM16/PM30
2,6-Dinitrotoluene												<10	ug/l	TM16/PM30
3-Nitroaniline												<10	ug/l	TM16/PM30
4-Bromophenylphenylether #												<1	ug/l	TM16/PM30
4-Chloroaniline												<10	ug/l	TM16/PM30
4-Chlorophenylphenylether #												<1	ug/l	TM16/PM30
4-Nitroaniline #												<0.5	ug/l	TM16/PM30
Azobenzene #												<0.5	ug/l	TM16/PM30
Bis(2-chloroethoxy)methane #												<0.5	ug/l	TM16/PM30
Bis(2-chloroethyl)ether #												<1	ug/l	TM16/PM30
Carbazole #												<0.5	ug/l	TM16/PM30
Dibenzofuran #												<0.5	ug/l	TM16/PM30
Hexachlorobenzene #												<1	ug/l	TM16/PM30
Hexachlorobutadiene #												<1	ug/l	TM16/PM30
Hexachlorocyclopentadiene												<10	ug/l	TM16/PM30
Hexachloroethane #												<1	ug/l	TM16/PM30
Isophorone #												<0.5	ug/l	TM16/PM30
N-nitrosodi-n-propylamine #												<0.5	ug/l	TM16/PM30
Nitrobenzene #												<1	ug/l	TM16/PM30

Client Name: WYG

Reference: A74754-28

Location: BRADFORD RD

Contact: Jonathan Boyes

JE Job No.: 13/1769

VOC Report : **Liquid**

J E Sample No.	[redacted]										LOD	Units	Method No.
Sample ID													
Depth													
COC No / misc													
Containers													
Sample Date													
Sample Type													
Batch Number													
Date of Receipt													
VOC MS													
Dichlorodifluoromethane											<0.002	mg/l	TM15/PM10
Methyl Tertiary Butyl Ether #											<0.001	mg/l	TM15/PM10
Chloromethane #											<0.003	mg/l	TM15/PM10
Vinyl Chloride											<0.002	mg/l	TM15/PM10
Bromomethane											<0.001	mg/l	TM15/PM10
Chloroethane #											<0.003	mg/l	TM15/PM10
Trichlorofluoromethane #											<0.003	mg/l	TM15/PM10
1,1-Dichloroethene (1,1 DCE) #											<0.003	mg/l	TM15/PM10
Dichloromethane (DCM) #											<0.003	mg/l	TM15/PM10
trans-1-2-Dichloroethene #											<0.003	mg/l	TM15/PM10
1,1-Dichloroethane #											<0.003	mg/l	TM15/PM10
cis-1-2-Dichloroethene #											<0.003	mg/l	TM15/PM10
2,2-Dichloropropane											<0.001	mg/l	TM15/PM10
Bromochloromethane #											<0.002	mg/l	TM15/PM10
Chloroform #											<0.002	mg/l	TM15/PM10
1,1,1-Trichloroethane #											<0.002	mg/l	TM15/PM10
1,1-Dichloropropene #											<0.003	mg/l	TM15/PM10
Carbon tetrachloride #											<0.002	mg/l	TM15/PM10
1,2-Dichloroethane #											<0.002	mg/l	TM15/PM10
Benzene #											<0.001	mg/l	TM15/PM10
Trichloroethene (TCE) #											<0.003	mg/l	TM15/PM10
1,2-Dichloropropane #											<0.002	mg/l	TM15/PM10
Dibromomethane #											<0.003	mg/l	TM15/PM10
Bromodichloromethane #											<0.002	mg/l	TM15/PM10
cis-1-3-Dichloropropene											<0.002	mg/l	TM15/PM10
Toluene #											<0.002	mg/l	TM15/PM10
trans-1-3-Dichloropropene											<0.002	mg/l	TM15/PM10
1,1,2-Trichloroethane #											<0.002	mg/l	TM15/PM10
Tetrachloroethene (PCE) #											<0.003	mg/l	TM15/PM10
1,3-Dichloropropane #											<0.002	mg/l	TM15/PM10
Dibromochloromethane #											<0.002	mg/l	TM15/PM10
1,2-Dibromoethane #											<0.002	mg/l	TM15/PM10
Chlorobenzene #											<0.002	mg/l	TM15/PM10
1,1,1,2-Tetrachloroethane #											<0.002	mg/l	TM15/PM10
Ethylbenzene #											<0.002	mg/l	TM15/PM10
p/m-Xylene #											<0.003	mg/l	TM15/PM10
o-Xylene #											<0.002	mg/l	TM15/PM10
Styrene											<0.002	mg/l	TM15/PM10
Bromoform #											<0.002	mg/l	TM15/PM10
Isopropylbenzene #											<0.003	mg/l	TM15/PM10
1,1,2,2-Tetrachloroethane											<0.004	mg/l	TM15/PM10
Bromobenzene #											<0.002	mg/l	TM15/PM10
1,2,3-Trichloropropane #											<0.003	mg/l	TM15/PM10
Propylbenzene #											<0.003	mg/l	TM15/PM10
2-Chlorotoluene #											<0.003	mg/l	TM15/PM10
1,3,5-Trimethylbenzene #											<0.003	mg/l	TM15/PM10
4-Chlorotoluene #											<0.003	mg/l	TM15/PM10
tert-Butylbenzene #											<0.003	mg/l	TM15/PM10
1,2,4-Trimethylbenzene #											<0.003	mg/l	TM15/PM10
sec-Butylbenzene #											<0.003	mg/l	TM15/PM10
4-Isopropyltoluene #											<0.003	mg/l	TM15/PM10
1,3-Dichlorobenzene #											<0.003	mg/l	TM15/PM10
1,4-Dichlorobenzene #											<0.003	mg/l	TM15/PM10
n-Butylbenzene #											<0.003	mg/l	TM15/PM10
1,2-Dichlorobenzene #											<0.003	mg/l	TM15/PM10
1,2-Dibromo-3-chloropropane											<0.002	mg/l	TM15/PM10
1,2,4-Trichlorobenzene											<0.003	mg/l	TM15/PM10
Hexachlorobutadiene											<0.003	mg/l	TM15/PM10
1,2,3-Trichlorobenzene											<0.003	mg/l	TM15/PM10
Surrogate Recovery Toluene D8											<0	%	TM15/PM10
Surrogate Recovery 4-Bromofluorobenzene											<0	%	TM15/PM10

Please see attached notes for all abbreviations and acronyms

Client Name: WYG

Reference: A74754-28

Location: BRADFORD RD

Contact: Jonathan Boyes

J E Job No.	Batch	Sample ID	Depth	J E Sample No.	NDP Reason
13/1769	1	RBH102		39-42	Insufficient sample for test

NOTES TO ACCOMPANY ALL SCHEDULES AND REPORTS

JE Job No.: 13/1769

SOILS

Please note we are only MCERTS accredited for sand, loam and clay and any other matrix is outside our scope of accreditation.

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation has been performed on clay, sand and loam, only samples that are predominantly these matrices, or combinations of them will be within our MCERTS scope. If samples are not one of a combination of the above matrices they will not be marked as MCERTS accredited.

It is assumed that you have taken representative samples on site and require analysis on a representative subsample. Stones will generally be included unless we are requested to remove them.

All samples will be discarded one month after the date of reporting, unless we are instructed to the contrary. If we are instructed to keep samples, a storage charge of £1 (1.5 Euros) per sample per month will be applied until we are asked to dispose of them.

If you have not already done so, please send us a purchase order if this is required by your company.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

All analysis is reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected. Samples are dried at 35°C ±5°C unless otherwise stated. Moisture content for CEN Leachate tests are dried at 105°C ±5°C.

WATERS

Please note we are not a Drinking Water Inspectorate (DWI) Approved Laboratory . It is important that detection limits are carefully considered when requesting water analysis.

UKAS accreditation applies to surface water and groundwater and one other matrix which is analysis specific, any other liquids are outside our scope of accreditation

As surface waters require different sample preparation to groundwaters the laboratory must be informed of the water type when submitting samples.

DEVIATING SAMPLES

Samples must be received in a condition appropriate to the requested analyses. All samples should be submitted to the laboratory in suitable containers with sufficient ice packs to sustain an appropriate temperature for the requested analysis. If this is not the case you will be informed and any test results that may be compromised highlighted on your deviating samples report.

SURROGATES

Surrogate compounds are added during the preparation process to monitor recovery of analytes. However low recovery in soils is often due to peat, clay or other organic rich matrices. For waters this can be due to oxidants, surfactants, organic rich sediments or remediation fluids. Acceptable limits for most organic methods are 70 - 130% and for VOCs are 50 - 150%. When surrogate recoveries are outside the performance criteria but the associated AQC passes this is assumed to be due to matrix effect. Results are not surrogate corrected.

NOTE

Data is only accredited when all the requirements of our Quality System have been met. In certain circumstances where the requirements have not been met, the laboratory may issue the data in an interim report but will remove the accreditation, in this instance results should be considered indicative only. Where possible samples will be re-extracted and a final report issued with accredited results. Please do not hesitate to contact the laboratory if further details are required of the circumstances which have led to the removal of accreditation.

ABBREVIATIONS and ACRONYMS USED

#	UKAS accredited.
B	Indicates analyte found in associated method blank.
DR	Dilution required.
M	MCERTS accredited.
NA	Not applicable
NAD	No Asbestos Detected.
ND	None Detected (usually refers to VOC and/SVOC TICs).
NDP	No Determination Possible
SS	Calibrated against a single substance.
SV	Surrogate recovery outside performance criteria. This may be due to a matrix effect.
W	Results expressed on as received basis.
+	AQC failure, accreditation has been removed from this result, if appropriate, see 'Note' on previous page.
++	Result outside calibration range, results should be considered as indicative only and are not accredited.
*	Analysis subcontracted to a Jones Environmental approved laboratory.
CO	Suspected carry over
NFD	No Fibres Detected

JE Job No 13/1769

Test Method No.	Description	Prep Method No. (if appropriate)	Description	UKAS	MCERTS (soils only)	Analysis done on As Received (AR) or Air Dried (AD)	Solid Results expressed on Dry/Wet basis
TM4	16 PAH by GC-MS, modified USEPA 8270	PM30	Magnetic stirrer extraction				
TM4	16 PAH by GC-MS, modified USEPA 8270	PM30	Magnetic stirrer extraction	Yes			
TM5	EPH by GC-FID, modified USEPA 8015	PM30	Magnetic stirrer extraction	Yes			
TM5	EPH by GC-FID, modified USEPA 8015	PM30	Magnetic stirrer extraction	Yes		AR	
TM5/TM36	TPH CWG by GC-FID	PM30	Magnetic stirrer extraction				
TM5/TM36	TPH CWG by GC-FID	PM30	Magnetic stirrer extraction	Yes			
TM15	VOC - Target by GC-MS, modified USEPA 8260	PM10	VOC GC-MS				
TM15	VOC - Target by GC-MS, modified USEPA 8260	PM10	VOC GC-MS	Yes			
TM16	SVOC - Target by GC-MS, modified USEPA 8270	PM30	Magnetic stirrer extraction				
TM16	SVOC - Target by GC-MS, modified USEPA 8270	PM30	Magnetic stirrer extraction	Yes			
TM25	Dissolved Methane, Ethane, Ethene by GC-FID	PM0	No Preparation				
TM26	Phenols by HPLC	PM0	No Preparation				
TM30	Metals by ICP-OES	PM0	No Preparation				
TM30	Metals by ICP-OES	PM14	Metals by ICP (Waters)				
TM30	Metals by ICP-OES	PM14	Metals by ICP (Waters)	Yes			
TM30/TM48	Ferric Iron by ICP-OES and Photometer	PM0	No Preparation				
TM36	GRO by Headspace GC-FID	PM12	GRO GC-FID	Yes			
TM37	Total Suspended Solids- gravimetric	PM0	No Preparation				
TM38	SO4,Cl,NO3,NO2,F,PO4, Amm N2,ThioCN, Hex Cr by Aquakem	PM0	No Preparation	Yes			
TM48	Ferrous Iron by ICP-OES and Colourimetry	PM0	No Preparation				
TM59	Dissolved oxygen using DO meter	PM0	No Preparation				
TM60	TOC/DOC by NDIR	PM0	No Preparation				
TM61	Mercury - low level CVAF	PM38	Mercury CVAF	Yes			
TM62	Mn (II) by Colourimetric measurement	PM0	No Preparation				
TM73	pH in by Metrohm	PM0	No Preparation	Yes			
TM75	Alkalinity by Metrohm	PM0	No Preparation	Yes			
TM76	Electrical Conductivity by Metrohm	PM0	No Preparation	Yes			
TM89	Cyanide by FIA	PM0	No Preparation				
TM89	Cyanide by FIA	PM0	No Preparation	Yes			
TM106	Sulphide by CFA	PM0	No Preparation				
TM107	Thiocyanate by CFA	PM0	No Preparation				

Jones Environmental Laboratory

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Arndale Court
Arndale Centre
Otley Road
Leeds
LS6 2UJ

No.4225

Attention :	Jonathan Boyes
Date :	28th February, 2013
Your reference :	A74754-28
Our reference :	Test Report 13/1769 Batch 1 Schedule E
Location :	BRADFORD RD
Date samples received :	13th February, 2013
Status :	Final report
Issue :	1

Thirteen samples were received for analysis on 13th February, 2013. Please find attached our Test Report which should be read with notes at the end of the report and should include all sections if reproduced. Interpretations and opinions are outside the scope of any accreditation, and all results relate only to samples supplied.
All analysis is carried out on as received samples and reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected.

Compiled By:

Bruce Leslie
Project Co-ordinator

Bob Millward B.Sc
Principal Chemist

Jones Environmental Laboratory

Client Name: WYG

Reference: A74754-28

Location: BRADFORD RD

Contact: Jonathan Boyes

JE Job No.: 13/1769

Report : Liquid

Liquids/products: V=40ml vial, G=glass bottle, P=plastic bottle
H=H_2SO_4, Z=ZnAc, N=NaOH, HN=$HN0_3$

J E Sample No.	1-9												
Sample ID	BH2												
Depth													
COC No / misc													
Containers	V H N Z P G												
Sample Date	12/02/2013												
Sample Type	Ground Water												
Batch Number	1												
Date of Receipt	13/02/2013												
Total Alkalinity as CaCO3 #	920											<1	mg/l	TM75/PM0

Please see attached notes for all abbreviations and acronyms

NOTES TO ACCOMPANY ALL SCHEDULES AND REPORTS

JE Job No.: 13/1769

SOILS

Please note we are only MCERTS accredited for sand, loam and clay and any other matrix is outside our scope of accreditation.

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation has been performed on clay, sand and loam, only samples that are predominantly these matrices, or combinations of them will be within our MCERTS scope. If samples are not one of a combination of the above matrices they will not be marked as MCERTS accredited.

It is assumed that you have taken representative samples on site and require analysis on a representative subsample. Stones will generally be included unless we are requested to remove them.

All samples will be discarded one month after the date of reporting, unless we are instructed to the contrary. If we are instructed to keep samples, a storage charge of £1 (1.5 Euros) per sample per month will be applied until we are asked to dispose of them.

If you have not already done so, please send us a purchase order if this is required by your company.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

All analysis is reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected. Samples are dried at 35°C ±5°C unless otherwise stated. Moisture content for CEN Leachate tests are dried at 105°C ±5°C.

WATERS

Please note we are not a Drinking Water Inspectorate (DWI) Approved Laboratory . It is important that detection limits are carefully considered when requesting water analysis.

UKAS accreditation applies to surface water and groundwater and one other matrix which is analysis specific, any other liquids are outside our scope of accreditation

As surface waters require different sample preparation to groundwaters the laboratory must be informed of the water type when submitting samples.

DEVIATING SAMPLES

Samples must be received in a condition appropriate to the requested analyses. All samples should be submitted to the laboratory in suitable containers with sufficient ice packs to sustain an appropriate temperature for the requested analysis. If this is not the case you will be informed and any test results that may be compromised highlighted on your deviating samples report.

SURROGATES

Surrogate compounds are added during the preparation process to monitor recovery of analytes. However low recovery in soils is often due to peat, clay or other organic rich matrices. For waters this can be due to oxidants, surfactants, organic rich sediments or remediation fluids. Acceptable limits for most organic methods are 70 - 130% and for VOCs are 50 - 150%. When surrogate recoveries are outside the performance criteria but the associated AQC passes this is assumed to be due to matrix effect. Results are not surrogate corrected.

NOTE

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ABBREVIATIONS and ACRONYMS USED

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DR	Dilution required.
M	MCERTS accredited.
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NAD	No Asbestos Detected.
ND	None Detected (usually refers to VOC and/SVOC TICs).
NDP	No Determination Possible
SS	Calibrated against a single substance.
SV	Surrogate recovery outside performance criteria. This may be due to a matrix effect.
W	Results expressed on as received basis.
+	AQC failure, accreditation has been removed from this result, if appropriate, see 'Note' on previous page.
++	Result outside calibration range, results should be considered as indicative only and are not accredited.
*	Analysis subcontracted to a Jones Environmental approved laboratory.
CO	Suspected carry over
NFD	No Fibres Detected

JE Job No 13/1769

Test Method No.	Description	Prep Method No. (if appropriate)	Description	UKAS	MCERTS (soils only)	Analysis done on As Received (AR) or Air Dried (AD)	Solid Results expressed on Dry/Wet basis
TM75	Alkalinity by Metrohm	PM0	No Preparation	Yes			

Jones Environmental Laboratory

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No.4225

Attention :	Jonathan Boyes
Date :	26th April, 2013
Your reference :	A74754-28
Our reference :	Test Report 13/1769 Batch 1
Location :	BRADFORD RD
Date samples received :	13th February, 2013
Status :	Final report
Issue :	3

Thirteen samples were received for analysis on 13th February, 2013. Please find attached our Test Report which should be read with notes at the end of the report and should include all sections if reproduced. Interpretations and opinions are outside the scope of any accreditation, and all results relate only to samples supplied.
All analysis is carried out on as received samples and reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected.

Compiled By:

Phil Sommerton B.Sc
Project Manager

Bob Millward B.Sc
Principal Chemist

Jones Environmental Laboratory

Client Name: WYG

Reference: A74754-28

Location: BRADFORD RD

Contact: Jonathan Boyes

JE Job No.: 13/1769

Report : Liquid

Liquids/products: V=40ml vial, G=glass bottle, P=plastic bottle
$H=H_2SO_4$, Z=ZnAc, N=NaOH, HN=$HN0_3$

Please see attached notes for all abbreviations and acronyms

J E Sample No.	1-9	10-19	20-29	30-32,34-38	39-42	[redacted]	63-66	67-73	[redacted]	LOD	Units	Method No.
Sample ID	BH2	BH102	RBH101	DUP120213	RBH102		TB110213	DUP110213				
Depth												
COC No / misc												
Containers	V H N Z P G	V H HCL N Z P G	V H HCL N Z P G	V H N Z P G	V		V P G	V H N Z P G				
Sample Date	12/02/2013	12/02/2013	12/02/2013	12/02/2013	12/02/2013		11/02/2013	11/02/2013				
Sample Type	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water		Ground Water	Ground Water				
Batch Number	1	1	1	1	1		1	1				
Date of Receipt	13/02/2013	13/02/2013	13/02/2013	13/02/2013	13/02/2013		13/02/2013	13/02/2013				
Dissolved Arsenic #	0.0013	0.0081	0.0028	0.0049	-		<0.0009	0.0035		<0.0009	mg/l	TM30/PM14
Dissolved Cadmium #	<0.00003	0.00034	0.00018	0.00048	-		<0.00003	<0.00003		<0.00003	mg/l	TM30/PM14
Total Dissolved Chromium #	<0.0002	<0.0002	0.0005	<0.0002	-		<0.0002	<0.0002		<0.0002	mg/l	TM30/PM14
Dissolved Copper #	<0.003	<0.003	<0.003	0.007	-		<0.003	<0.003		<0.003	mg/l	TM30/PM14
Total Dissolved Iron #	-	<20	235	-	-		-	-		<20	ug/l	TM30/PM14
Total Dissolved Iron #	<0.0047	0.0184	0.2352	0.1137	-		<0.0047	0.0217		<0.0047	mg/l	TM30/PM14
Dissolved Lead #	0.0034	0.0076	0.0081	0.0030	-		<0.0004	0.0062		<0.0004	mg/l	TM30/PM14
Dissolved Nickel #	<0.0002	0.0019	0.0013	0.0033	-		<0.0002	<0.0002		<0.0002	mg/l	TM30/PM14
Dissolved Selenium #	<0.0012	<0.0012	<0.0012	<0.0012	-		<0.0012	<0.0012		<0.0012	mg/l	TM30/PM14
Dissolved Zinc #	0.0020	<0.0015	0.0204	0.0347	-		<0.0015	<0.0015		<0.0015	mg/l	TM30/PM14
Mercury Dissolved by CVAF #	<0.01	0.01	<0.01	<0.01	-		<0.01	<0.01		<0.01	ug/l	TM61/PM38
Total Hardness Dissolved (as CaCO3)	217	417	218	-	-		45	433		<1	mg/l	TM30/PM0
Total Dissolved Sulphur	18.56	46.43	28.50	29.77	-		3.99	50.07		<0.01	mg/l	TM30/PM14
PAH MS												
Naphthalene #	0.000040	0.000280	0.001710	0.000620	-		0.000050	0.000020		<0.000014	mg/l	TM4/PM30
Acenaphthylene #	<0.000013	0.000080	0.000140	0.000040	-		<0.000013	<0.000013		<0.000013	mg/l	TM4/PM30
Acenaphthene #	<0.000013	0.002580	0.000060	0.000020	-		<0.000013	<0.000013		<0.000013	mg/l	TM4/PM30
Fluorene #	<0.000014	0.000440	0.000100	0.000030	-		<0.000014	<0.000014		<0.000014	mg/l	TM4/PM30
Phenanthrene #	0.000020	0.000160	0.000210	0.000070	-		<0.000011	<0.000011		<0.000011	mg/l	TM4/PM30
Anthracene #	<0.000013	0.000080	0.000040	0.000020	-		<0.000013	<0.000013		<0.000013	mg/l	TM4/PM30
Fluoranthene #	0.000030	0.000060	0.000100	0.000020	-		<0.000012	0.000020		<0.000012	mg/l	TM4/PM30
Pyrene #	0.000030	0.000090	0.000090	0.000020	-		<0.000013	0.000020		<0.000013	mg/l	TM4/PM30
Benzo(a)anthracene #	0.000020	<0.000015	0.000030	<0.000015	-		<0.000015	<0.000015		<0.000015	mg/l	TM4/PM30
Chrysene #	0.000020	<0.000011	0.000020	<0.000011	-		<0.000011	<0.000011		<0.000011	mg/l	TM4/PM30
Benzo(bk)fluoranthene #	0.000040	<0.000018	0.000040	<0.000018	-		<0.000018	<0.000018		<0.000018	mg/l	TM4/PM30
Benzo(a)pyrene #	0.000020	<0.000016	0.000020	<0.000016	-		<0.000016	<0.000016		<0.000016	mg/l	TM4/PM30
Indeno(123cd)pyrene #	<0.000011	<0.000011	<0.000011	<0.000011	-		<0.000011	<0.000011		<0.000011	mg/l	TM4/PM30
Dibenzo(ah)anthracene #	<0.00001	<0.00001	<0.00001	<0.00001	-		<0.00001	<0.00001		<0.00001	mg/l	TM4/PM30
Benzo(ghi)perylene #	<0.000011	<0.000011	<0.000011	<0.000011	-		<0.000011	<0.000011		<0.000011	mg/l	TM4/PM30
PAH 16 Total #	0.000220	0.003770	0.002560	0.000840	-		<0.000195	<0.000195		<0.000195	mg/l	TM4/PM30
Benzo(b)fluoranthene	0.00003	<0.00001	0.00003	<0.00001	-		<0.00001	<0.00001		<0.00001	mg/l	TM4/PM30
Benzo(k)fluoranthene	0.00001	<0.00001	0.00001	<0.00001	-		<0.00001	<0.00001		<0.00001	mg/l	TM4/PM30
PAH Surrogate % Recovery	89	84	90	97	-		88	95		<0	%	TM4/PM30
Methyl Tertiary Butyl Ether #	<0.001	<0.001	<0.001	<0.001	-		<0.001	<0.001		<0.001	mg/l	TM15/PM10
Benzene #	<0.001	<0.001	<0.001	<0.001	-		<0.001	<0.001		<0.001	mg/l	TM15/PM10
Toluene #	<0.002	<0.002	0.004	0.004	-		<0.002	<0.002		<0.002	mg/l	TM15/PM10
Ethylbenzene #	<0.002	<0.002	<0.002	<0.002	-		<0.002	<0.002		<0.002	mg/l	TM15/PM10
p/m-Xylene #	<0.003	<0.003	<0.003	<0.003	-		<0.003	<0.003		<0.003	mg/l	TM15/PM10
o-Xylene #	<0.002	<0.002	<0.002	<0.002	-		<0.002	<0.002		<0.002	mg/l	TM15/PM10
Surrogate Recovery Toluene D8	122	109	104	119	-		115	110		<0	%	TM15/PM10
Surrogate Recovery 4-Bromofluorobenzene	115	106	104	113	-		109	112		<0	%	TM15/PM10

Client Name: WYG

Reference: A74754-28

Location: BRADFORD RD

Contact: Jonathan Boyes

JE Job No.: 13/1769

Report : Liquid

Liquids/products: V=40ml vial, G=glass bottle, P=plastic bottle
$H=H_2SO_4$, Z=ZnAc, N=NaOH, $HN=HN0_3$

Please see attached notes for all abbreviations and acronyms

J E Sample No.	1-9	10-19	20-29	30-32,34-38	39-42	[redacted]	63-66	67-73	[redacted]	LOD	Units	Method No.
Sample ID	BH2	BH102	RBH101	DUP120213	RBH102		TB110213	DUP110213				
Depth												
COC No / misc												
Containers	V H N Z P G	V H HCL N Z P G	V H HCL N Z P G	V H N Z P G	V		V P G	V H N Z P G	V G			
Sample Date	12/02/2013	12/02/2013	12/02/2013	12/02/2013	12/02/2013		11/02/2013	11/02/2013	1 3			
Sample Type	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water		Ground Water	Ground Water	G er			
Batch Number	1	1	1	1	1		1	1				
Date of Receipt	13/02/2013	13/02/2013	13/02/2013	13/02/2013	13/02/2013		13/02/2013	13/02/2013	1 3			
EPH (C8-C40) #	<0.01	<0.01	<0.01	<0.01	-		<0.01	<0.01		<0.01	mg/l	TM5/PM30
TPH CWG												
Aliphatics												
>C5-C6 #	-	<0.005	-	-	<0.005		-	-		<0.005	mg/l	TM36/PM12
>C6-C8 #	-	<0.005	-	-	<0.005		-	-		<0.005	mg/l	TM36/PM12
>C8-C10 #	-	<0.005	-	-	0.039		-	-		<0.005	mg/l	TM36/PM12
>C10-C12 #	-	<0.005	-	-	NDP		-	-		<0.005	mg/l	TM5/PM30
>C12-C16 #	-	<0.01	-	-	NDP		-	-		<0.01	mg/l	TM5/PM30
>C16-C21 #	-	<0.01	-	-	NDP		-	-		<0.01	mg/l	TM5/PM30
>C21-C35 #	-	<0.01	-	-	NDP		-	-		<0.01	mg/l	TM5/PM30
Total aliphatics C5-35 #	-	<0.01	-	-	NDP		-	-		<0.01	mg/l	TM5/TM36/PM30
Total aliphatics C5-C12 #	-	<0.01	-	-	NDP		-	-		<0.01	mg/l	TM5/TM36/PM30
Total aliphatics >C12-C35 #	-	<0.01	-	-	NDP		-	-		<0.01	mg/l	TM5/TM36/PM30
Aromatics												
>C5-EC7 #	-	<0.005	-	-	<0.005		-	-		<0.005	mg/l	TM36/PM12
>EC7-EC8 #	-	<0.005	-	-	0.045		-	-		<0.005	mg/l	TM36/PM12
>EC8-EC10 #	-	<0.005	-	-	<0.005		-	-		<0.005	mg/l	TM36/PM12
>EC10-EC12 #	-	<0.005	-	-	NDP		-	-		<0.005	mg/l	TM5/PM30
>EC12-EC16 #	-	<0.01	-	-	NDP		-	-		<0.01	mg/l	TM5/PM30
>EC16-EC21 #	-	<0.01	-	-	NDP		-	-		<0.01	mg/l	TM5/PM30
>EC21-EC35 #	-	<0.01	-	-	NDP		-	-		<0.01	mg/l	TM5/PM30
Total aromatics C5-35 #	-	<0.01	-	-	NDP		-	-		<0.01	mg/l	TM5/PM30
Total aromatics C6-C12	-	<0.01	-	-	NDP		-	-		<0.01	mg/l	TM5/TM36/PM30
Total aromatics >EC12-EC35 #	-	<0.01	-	-	NDP		-	-		<0.01	mg/l	TM5/TM36/PM30
Total aliphatics and aromatics(C5-35) #	-	<0.01	-	-	NDP		-	-		<0.01	mg/l	TM5/TM36/PM30
Resorcinol	<0.0005	<0.0005	<0.0005	<0.0005	-		<0.0005	<0.0005		<0.0005	mg/l	TM26/PM0
Catechol	<0.0005	<0.0005	<0.0005	<0.0005	-		<0.0005	<0.0005		<0.0005	mg/l	TM26/PM0
Phenol	<0.0005	<0.0005	0.0041	<0.0005	-		<0.0005	<0.0005		<0.0005	mg/l	TM26/PM0
m/p-cresol	<0.0005	<0.0005	0.0042	<0.0005	-		<0.0005	<0.0005		<0.0005	mg/l	TM26/PM0
o-cresol	<0.0005	<0.0005	0.0041	<0.0005	-		<0.0005	<0.0005		<0.0005	mg/l	TM26/PM0
Total cresols	<0.0005	<0.0005	0.0083	<0.0005	-		<0.0005	<0.0005		<0.0005	mg/l	TM26/PM0
Xylenols	<0.0005	<0.0005	<0.0005	<0.0005	-		<0.0005	<0.0005		<0.0005	mg/l	TM26/PM0
1-naphthol	<0.0005	<0.0005	<0.0005	<0.0005	-		<0.0005	<0.0005		<0.0005	mg/l	TM26/PM0
2,3,5-trimethyl phenol	<0.0005	<0.0005	<0.0005	<0.0005	-		<0.0005	<0.0005		<0.0005	mg/l	TM26/PM0
2-isopropylphenol	<0.0005	<0.0005	<0.0005	<0.0005	-		<0.0005	<0.0005		<0.0005	mg/l	TM26/PM0
Total Speciated Phenols HPLC	<0.005	<0.005	0.012	<0.005	-		<0.005	<0.005		<0.005	mg/l	TM26/PM0
Sulphate #	53.35	152.20	93.80	89.74	-		11.50	159.39		<0.05	mg/l	TM38/PM0
Chloride #	18.8	309.4	13.2	13.3	-		13.2	17.2		<0.3	mg/l	TM38/PM0
Nitrate as NO3 #	-	<0.2	<0.2	-	-		-	-		<0.2	mg/l	TM38/PM0
Nitrite as NO2 #	-	<0.02	<0.02	-	-		-	-		<0.02	mg/l	TM38/PM0

Jones Environmental Laboratory

Client Name: WYG

Reference: A74754-28

Location: BRADFORD RD

Contact: Jonathan Boyes

JE Job No.: 13/1769

Report : Liquid

Liquids/products: V=40ml vial, G=glass bottle, P=plastic bottle
$H=H_2SO_4$, Z=ZnAc, N=NaOH, $HN=HN0_3$

Please see attached notes for all abbreviations and acronyms

J E Sample No.	1-9	10-19	20-29	30-32,34-38	39-42	[redacted]	63-66	67-73	[redacted]	LOD	Units	Method No.
Sample ID	BH2	BH102	RBH101	DUP120213	RBH102		TB110213	DUP110213				
Depth												
COC No / misc												
Containers	V H N Z P G	V H HCL N Z P G	V H HCL N Z P G	V H N Z P G	V	G	V P G	V H N Z P G				
Sample Date	12/02/2013	12/02/2013	12/02/2013	12/02/2013	12/02/2013	3	11/02/2013	11/02/2013				
Sample Type	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	er	Ground Water	Ground Water	r			
Batch Number	1	1	1	1	1		1	1				
Date of Receipt	13/02/2013	13/02/2013	13/02/2013	13/02/2013	13/02/2013	3	13/02/2013	13/02/2013				
Free Cyanide #	<0.01	<0.01	<0.01	<0.01	-		<0.01	<0.01		<0.01	mg/l	TM89/PM0
Total Cyanide	0.009	0.023	0.014	0.009	-		<0.005	0.028		<0.005	mg/l	TM89/PM0
Complex Cyanide	<0.01	0.02	0.01	<0.01	-		<0.01	0.03		<0.01	mg/l	TM89/PM0
Ammoniacal Nitrogen as NH4 #	0.30	0.86	0.58	0.56	-		<0.03	0.25		<0.03	mg/l	TM38/PM0
Dissolved Methane	-	494	134	-	-		-	-		<1	ug/l	TM25/PM0
Total Alkalinity as CaCO3 #	-	816	4522	-	-		-	-		<1	mg/l	TM75/PM0
Sulphide	<0.3	<0.3	<0.3	<0.3	-		<0.3	<0.3		<0.3	mg/l	TM106/PM0
Thiocyanate	<0.02	0.05	<0.02	<0.02	-		<0.02	<0.02		<0.02	mg/l	TM107/PM0
Dissolved Oxygen	-	7	<1	-	-		-	-		<1	mg/l	TM59/PM0
Dissolved Organic Carbon	<2	14	11	13	-		2	5		<2	mg/l	TM60/PM0
Electrical Conductivity @25C #	532	1908	655	692	-		174	902		<2	uS/cm	TM76/PM0
Iron II	-	4.50	117.00	-	-		-	-		<0.02	mg/l	TM48/PM0
Iron III	-	3.55	2301.00	-	-		-	-		<0.02	mg/l	TM30/TM48/PM0
Manganese II	-	2.70	27.32	-	-		-	-		<0.02	mg/l	TM62/PM0
pH #	7.55	7.31	8.08	7.38	-		7.33	7.42		<0.01	pH units	TM73/PM0
Total Organic Carbon	-	15	11	-	-		-	-		<2	mg/l	TM60/PM0
Total Suspended Solids	6855	444	66255	118960	-		<10	2210		<10	mg/l	TM37/PM0

Client Name: WYG

Reference: A74754-28

Location: BRADFORD RD

Contact: Jonathan Boyes

JE Job No.: 13/1769

Report : Liquid

Liquids/products: V=40ml vial, G=glass bottle, P=plastic bottle
$H=H_2SO_4$, Z=ZnAc, N=NaOH, HN=$HN0_3$

Please see attached notes for all abbreviations and acronyms

J E Sample No.	[redacted]	LOD	Units	Method No.
Sample ID				
Depth				
COC No / misc				
Containers				
Sample Date				
Sample Type				
Batch Number				
Date of Receipt				
Dissolved Arsenic #		<0.0009	mg/l	TM30/PM14
Dissolved Cadmium #		<0.00003	mg/l	TM30/PM14
Total Dissolved Chromium #		<0.0002	mg/l	TM30/PM14
Dissolved Copper #		<0.003	mg/l	TM30/PM14
Total Dissolved Iron #		<20	ug/l	TM30/PM14
Total Dissolved Iron #		<0.0047	mg/l	TM30/PM14
Dissolved Lead #		<0.0004	mg/l	TM30/PM14
Dissolved Nickel #		<0.0002	mg/l	TM30/PM14
Dissolved Selenium #		<0.0012	mg/l	TM30/PM14
Dissolved Zinc #		<0.0015	mg/l	TM30/PM14
Mercury Dissolved by CVAF #		<0.01	ug/l	TM61/PM38
Total Hardness Dissolved (as CaCO3)		<1	mg/l	TM30/PM0
Total Dissolved Sulphur		<0.01	mg/l	TM30/PM14
PAH MS				
Naphthalene #		<0.000014	mg/l	TM4/PM30
Acenaphthylene #		<0.000013	mg/l	TM4/PM30
Acenaphthene #		<0.000013	mg/l	TM4/PM30
Fluorene #		<0.000014	mg/l	TM4/PM30
Phenanthrene #		<0.000011	mg/l	TM4/PM30
Anthracene #		<0.000013	mg/l	TM4/PM30
Fluoranthene #		<0.000012	mg/l	TM4/PM30
Pyrene #		<0.000013	mg/l	TM4/PM30
Benzo(a)anthracene #		<0.000015	mg/l	TM4/PM30
Chrysene #		<0.000011	mg/l	TM4/PM30
Benzo(bk)fluoranthene #		<0.000018	mg/l	TM4/PM30
Benzo(a)pyrene #		<0.000016	mg/l	TM4/PM30
Indeno(123cd)pyrene #		<0.000011	mg/l	TM4/PM30
Dibenzo(ah)anthracene #		<0.00001	mg/l	TM4/PM30
Benzo(ghi)perylene #		<0.000011	mg/l	TM4/PM30
PAH 16 Total #		<0.000195	mg/l	TM4/PM30
Benzo(b)fluoranthene		<0.00001	mg/l	TM4/PM30
Benzo(k)fluoranthene		<0.00001	mg/l	TM4/PM30
PAH Surrogate % Recovery		<0	%	TM4/PM30
Methyl Tertiary Butyl Ether #		<0.001	mg/l	TM15/PM10
Benzene #		<0.001	mg/l	TM15/PM10
Toluene #		<0.002	mg/l	TM15/PM10
Ethylbenzene #		<0.002	mg/l	TM15/PM10
p/m-Xylene #		<0.003	mg/l	TM15/PM10
o-Xylene #		<0.002	mg/l	TM15/PM10
Surrogate Recovery Toluene D8		<0	%	TM15/PM10
Surrogate Recovery 4-Bromofluorobenzene		<0	%	TM15/PM10

Client Name: WYG

Reference: A74754-28

Location: BRADFORD RD

Contact: Jonathan Boyes

JE Job No.: 13/1769

Report : Liquid

Liquids/products: V=40ml vial, G=glass bottle, P=plastic bottle
H=H_2SO_4, Z=ZnAc, N=NaOH, HN=$HN0_3$

Please see attached notes for all abbreviations and acronyms

J E Sample No.	[redacted]	LOD	Units	Method No.
Sample ID				
Depth				
COC No / misc				
Containers				
Sample Date				
Sample Type				
Batch Number				
Date of Receipt				
EPH (C8-C40) #		<0.01	mg/l	TM5/PM30
TPH CWG				
Aliphatics				
>C5-C6 #		<0.005	mg/l	TM36/PM12
>C6-C8 #		<0.005	mg/l	TM36/PM12
>C8-C10 #		<0.005	mg/l	TM36/PM12
>C10-C12 #		<0.005	mg/l	TM5/PM30
>C12-C16 #		<0.01	mg/l	TM5/PM30
>C16-C21 #		<0.01	mg/l	TM5/PM30
>C21-C35 #		<0.01	mg/l	TM5/PM30
Total aliphatics C5-35 #		<0.01	mg/l	TM5/TM36/PM30
Total aliphatics C5-C12 #		<0.01	mg/l	TM5/TM36/PM30
Total aliphatics >C12-C35 #		<0.01	mg/l	TM5/TM36/PM30
Aromatics				
>C5-EC7 #		<0.005	mg/l	TM36/PM12
>EC7-EC8 #		<0.005	mg/l	TM36/PM12
>EC8-EC10 #		<0.005	mg/l	TM36/PM12
>EC10-EC12 #		<0.005	mg/l	TM5/PM30
>EC12-EC16 #		<0.01	mg/l	TM5/PM30
>EC16-EC21 #		<0.01	mg/l	TM5/PM30
>EC21-EC35 #		<0.01	mg/l	TM5/PM30
Total aromatics C5-35 #		<0.01	mg/l	TM5/PM30
Total aromatics C6-C12		<0.01	mg/l	TM5/TM36/PM30
Total aromatics >EC12-EC35 #		<0.01	mg/l	TM5/TM36/PM30
Total aliphatics and aromatics(C5-35) #		<0.01	mg/l	TM5/TM36/PM30
Resorcinol		<0.0005	mg/l	TM26/PM0
Catechol		<0.0005	mg/l	TM26/PM0
Phenol		<0.0005	mg/l	TM26/PM0
m/p-cresol		<0.0005	mg/l	TM26/PM0
o-cresol		<0.0005	mg/l	TM26/PM0
Total cresols		<0.0005	mg/l	TM26/PM0
Xylenols		<0.0005	mg/l	TM26/PM0
1-naphthol		<0.0005	mg/l	TM26/PM0
2,3,5-trimethyl phenol		<0.0005	mg/l	TM26/PM0
2-isopropylphenol		<0.0005	mg/l	TM26/PM0
Total Speciated Phenols HPLC		<0.005	mg/l	TM26/PM0
Sulphate #		<0.05	mg/l	TM38/PM0
Chloride #		<0.3	mg/l	TM38/PM0
Nitrate as NO3 #		<0.2	mg/l	TM38/PM0
Nitrite as NO2 #		<0.02	mg/l	TM38/PM0

Jones Environmental Laboratory

Client Name:	WYG
Reference:	A74754-28
Location:	BRADFORD RD
Contact:	Jonathan Boyes
JE Job No.:	13/1769

Report : Liquid

Liquids/products: V=40ml vial, G=glass bottle, P=plastic bottle
H=H_2SO_4, Z=ZnAc, N=NaOH, HN=$HN0_3$

Please see attached notes for all abbreviations and acronyms

	LOD	Units	Method No.
J E Sample No.			
Sample ID			
Depth			
COC No / misc			
Containers			
Sample Date			
Sample Type			
Batch Number			
Date of Receipt			
Free Cyanide #	<0.01	mg/l	TM89/PM0
Total Cyanide	<0.005	mg/l	TM89/PM0
Complex Cyanide	<0.01	mg/l	TM89/PM0
Ammoniacal Nitrogen as NH4 #	<0.03	mg/l	TM38/PM0
Dissolved Methane	<1	ug/l	TM25/PM0
Total Alkalinity as CaCO3 #	<1	mg/l	TM75/PM0
Sulphide	<0.3	mg/l	TM106/PM0
Thiocyanate	<0.02	mg/l	TM107/PM0
Dissolved Oxygen	<1	mg/l	TM59/PM0
Dissolved Organic Carbon	<2	mg/l	TM60/PM0
Electrical Conductivity @25C #	<2	uS/cm	TM76/PM0
Iron II	<0.02	mg/l	TM48/PM0
Iron III	<0.02	mg/l	TM30/TM48/PM0
Manganese II	<0.02	mg/l	TM62/PM0
pH #	<0.01	pH units	TM73/PM0
Total Organic Carbon	<2	mg/l	TM60/PM0
Total Suspended Solids	<10	mg/l	TM37/PM0

Client Name: WYG

Reference: A74754-28

Location: BRADFORD RD

Contact: Jonathan Boyes

JE Job No.: 13/1769

SVOC Report : **Liquid**

J E Sample No.	[redacted]												
Sample ID													
Depth											Please see attached notes for all abbreviations and acronyms		
COC No / misc													
Containers	V												
Sample Date	1												
Sample Type	G												
Batch Number											**LOD**	**Units**	**Method No.**
Date of Receipt	1												
SVOC MS													
Phenols													
2-Chlorophenol #											<1	ug/l	TM16/PM30
2-Methylphenol #											<0.5	ug/l	TM16/PM30
2-Nitrophenol #											<0.5	ug/l	TM16/PM30
2,4-Dichlorophenol #											<0.5	ug/l	TM16/PM30
2,4-Dimethylphenol											<10	ug/l	TM16/PM30
2,4,5-Trichlorophenol #											<0.5	ug/l	TM16/PM30
2,4,6-Trichlorophenol											<10	ug/l	TM16/PM30
4-Chloro-3-methylphenol #											<0.5	ug/l	TM16/PM30
4-Methylphenol											<10	ug/l	TM16/PM30
4-Nitrophenol											<10	ug/l	TM16/PM30
Pentachlorophenol											<10	ug/l	TM16/PM30
Phenol											<10	ug/l	TM16/PM30
PAHs													
2-Chloronaphthalene #											<1	ug/l	TM16/PM30
2-Methylnaphthalene #											<1	ug/l	TM16/PM30
Phthalates													
Bis(2-ethylhexyl) phthalate											<10	ug/l	TM16/PM30
Butylbenzyl phthalate											<10	ug/l	TM16/PM30
Di-n-butyl phthalate #											<1.5	ug/l	TM16/PM30
Di-n-Octyl phthalate											<10	ug/l	TM16/PM30
Diethyl phthalate #											<1	ug/l	TM16/PM30
Dimethyl phthalate											<10	ug/l	TM16/PM30
Other SVOCs													
1,2-Dichlorobenzene #											<1	ug/l	TM16/PM30
1,2,4-Trichlorobenzene #											<1	ug/l	TM16/PM30
1,3-Dichlorobenzene #											<1	ug/l	TM16/PM30
1,4-Dichlorobenzene #											<1	ug/l	TM16/PM30
2-Nitroaniline											<10	ug/l	TM16/PM30
2,4-Dinitrotoluene #											<0.5	ug/l	TM16/PM30
2,6-Dinitrotoluene											<10	ug/l	TM16/PM30
3-Nitroaniline											<10	ug/l	TM16/PM30
4-Bromophenylphenylether #											<1	ug/l	TM16/PM30
4-Chloroaniline											<10	ug/l	TM16/PM30
4-Chlorophenylphenylether #											<1	ug/l	TM16/PM30
4-Nitroaniline #											<0.5	ug/l	TM16/PM30
Azobenzene #											<0.5	ug/l	TM16/PM30
Bis(2-chloroethoxy)methane #											<0.5	ug/l	TM16/PM30
Bis(2-chloroethyl)ether #											<1	ug/l	TM16/PM30
Carbazole #											<0.5	ug/l	TM16/PM30
Dibenzofuran #											<0.5	ug/l	TM16/PM30
Hexachlorobenzene #											<1	ug/l	TM16/PM30
Hexachlorobutadiene #											<1	ug/l	TM16/PM30
Hexachlorocyclopentadiene											<10	ug/l	TM16/PM30
Hexachloroethane #											<1	ug/l	TM16/PM30
Isophorone #											<0.5	ug/l	TM16/PM30
N-nitrosodi-n-propylamine #											<0.5	ug/l	TM16/PM30
Nitrobenzene #											<1	ug/l	TM16/PM30

Client Name: WYG **VOC Report :** **Liquid**

Reference: A74754-28

Location: BRADFORD RD

Contact: Jonathan Boyes

JE Job No.: 13/1769

J E Sample No.													
Sample ID													
Depth											Please see attached notes for all abbreviations and acronyms		
COC No / misc													
Containers	V	G											
Sample Date	1												
Sample Type	G	r											
Batch Number											LOD	Units	Method No.
Date of Receipt	1												
VOC MS													
Dichlorodifluoromethane											<0.002	mg/l	TM15/PM10
Methyl Tertiary Butyl Ether #											<0.001	mg/l	TM15/PM10
Chloromethane #											<0.003	mg/l	TM15/PM10
Vinyl Chloride											<0.002	mg/l	TM15/PM10
Bromomethane											<0.001	mg/l	TM15/PM10
Chloroethane #											<0.003	mg/l	TM15/PM10
Trichlorofluoromethane #											<0.003	mg/l	TM15/PM10
1,1-Dichloroethene (1,1 DCE) #											<0.003	mg/l	TM15/PM10
Dichloromethane (DCM) #											<0.003	mg/l	TM15/PM10
trans-1-2-Dichloroethene #											<0.003	mg/l	TM15/PM10
1,1-Dichloroethane #											<0.003	mg/l	TM15/PM10
cis-1-2-Dichloroethene #											<0.003	mg/l	TM15/PM10
2,2-Dichloropropane											<0.001	mg/l	TM15/PM10
Bromochloromethane #											<0.002	mg/l	TM15/PM10
Chloroform #											<0.002	mg/l	TM15/PM10
1,1,1-Trichloroethane #											<0.002	mg/l	TM15/PM10
1,1-Dichloropropene #											<0.003	mg/l	TM15/PM10
Carbon tetrachloride #											<0.002	mg/l	TM15/PM10
1,2-Dichloroethane #											<0.002	mg/l	TM15/PM10
Benzene #											<0.001	mg/l	TM15/PM10
Trichloroethene (TCE) #											<0.003	mg/l	TM15/PM10
1,2-Dichloropropane #											<0.002	mg/l	TM15/PM10
Dibromomethane #											<0.003	mg/l	TM15/PM10
Bromodichloromethane #											<0.002	mg/l	TM15/PM10
cis-1-3-Dichloropropene											<0.002	mg/l	TM15/PM10
Toluene #											<0.002	mg/l	TM15/PM10
trans-1-3-Dichloropropene											<0.002	mg/l	TM15/PM10
1,1,2-Trichloroethane #											<0.002	mg/l	TM15/PM10
Tetrachloroethene (PCE) #											<0.003	mg/l	TM15/PM10
1,3-Dichloropropane #											<0.002	mg/l	TM15/PM10
Dibromochloromethane #											<0.002	mg/l	TM15/PM10
1,2-Dibromoethane #											<0.002	mg/l	TM15/PM10
Chlorobenzene #											<0.002	mg/l	TM15/PM10
1,1,1,2-Tetrachloroethane #											<0.002	mg/l	TM15/PM10
Ethylbenzene #											<0.002	mg/l	TM15/PM10
p/m-Xylene #											<0.003	mg/l	TM15/PM10
o-Xylene #											<0.002	mg/l	TM15/PM10
Styrene											<0.002	mg/l	TM15/PM10
Bromoform #											<0.002	mg/l	TM15/PM10
Isopropylbenzene #											<0.003	mg/l	TM15/PM10
1,1,2,2-Tetrachloroethane											<0.004	mg/l	TM15/PM10
Bromobenzene #											<0.002	mg/l	TM15/PM10
1,2,3-Trichloropropane #											<0.003	mg/l	TM15/PM10
Propylbenzene #											<0.003	mg/l	TM15/PM10
2-Chlorotoluene #											<0.003	mg/l	TM15/PM10
1,3,5-Trimethylbenzene #											<0.003	mg/l	TM15/PM10
4-Chlorotoluene #											<0.003	mg/l	TM15/PM10
tert-Butylbenzene #											<0.003	mg/l	TM15/PM10
1,2,4-Trimethylbenzene #											<0.003	mg/l	TM15/PM10
sec-Butylbenzene #											<0.003	mg/l	TM15/PM10
4-Isopropyltoluene #											<0.003	mg/l	TM15/PM10
1,3-Dichlorobenzene #											<0.003	mg/l	TM15/PM10
1,4-Dichlorobenzene #											<0.003	mg/l	TM15/PM10
n-Butylbenzene #											<0.003	mg/l	TM15/PM10
1,2-Dichlorobenzene #											<0.003	mg/l	TM15/PM10
1,2-Dibromo-3-chloropropane											<0.002	mg/l	TM15/PM10
1,2,4-Trichlorobenzene											<0.003	mg/l	TM15/PM10
Hexachlorobutadiene											<0.003	mg/l	TM15/PM10
1,2,3-Trichlorobenzene											<0.003	mg/l	TM15/PM10
Surrogate Recovery Toluene D8											<0	%	TM15/PM10
Surrogate Recovery 4-Bromofluorobenzene											<0	%	TM15/PM10

Client Name: WYG

Reference: A74754-28

Location: BRADFORD RD

Contact: Jonathan Boyes

J E Job No.	Batch	Sample ID	Depth	J E Sample No.	NDP Reason
13/1769	1	RBH102		39-42	Insufficient sample for test

NOTES TO ACCOMPANY ALL SCHEDULES AND REPORTS

JE Job No.: 13/1769

SOILS

Please note we are only MCERTS accredited for sand, loam and clay and any other matrix is outside our scope of accreditation.

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation has been performed on clay, sand and loam, only samples that are predominantly these matrices, or combinations of them will be within our MCERTS scope. If samples are not one of a combination of the above matrices they will not be marked as MCERTS accredited.

It is assumed that you have taken representative samples on site and require analysis on a representative subsample. Stones will generally be included unless we are requested to remove them.

All samples will be discarded one month after the date of reporting, unless we are instructed to the contrary. If we are instructed to keep samples, a storage charge of £1 (1.5 Euros) per sample per month will be applied until we are asked to dispose of them.

If you have not already done so, please send us a purchase order if this is required by your company.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

All analysis is reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected. Samples are dried at 35°C ±5°C unless otherwise stated. Moisture content for CEN Leachate tests are dried at 105°C ±5°C.

WATERS

Please note we are not a Drinking Water Inspectorate (DWI) Approved Laboratory . It is important that detection limits are carefully considered when requesting water analysis.

UKAS accreditation applies to surface water and groundwater and one other matrix which is analysis specific, any other liquids are outside our scope of accreditation

As surface waters require different sample preparation to groundwaters the laboratory must be informed of the water type when submitting samples.

DEVIATING SAMPLES

Samples must be received in a condition appropriate to the requested analyses. All samples should be submitted to the laboratory in suitable containers with sufficient ice packs to sustain an appropriate temperature for the requested analysis. If this is not the case you will be informed and any test results that may be compromised highlighted on your deviating samples report.

SURROGATES

Surrogate compounds are added during the preparation process to monitor recovery of analytes. However low recovery in soils is often due to peat, clay or other organic rich matrices. For waters this can be due to oxidants, surfactants, organic rich sediments or remediation fluids. Acceptable limits for most organic methods are 70 - 130% and for VOCs are 50 - 150%. When surrogate recoveries are outside the performance criteria but the associated AQC passes this is assumed to be due to matrix effect. Results are not surrogate corrected.

NOTE

Data is only accredited when all the requirements of our Quality System have been met. In certain circumstances where the requirements have not been met, the laboratory may issue the data in an interim report but will remove the accreditation, in this instance results should be considered indicative only. Where possible samples will be re-extracted and a final report issued with accredited results. Please do not hesitate to contact the laboratory if further details are required of the circumstances which have led to the removal of accreditation.

ABBREVIATIONS and ACRONYMS USED

#	UKAS accredited.
B	Indicates analyte found in associated method blank.
DR	Dilution required.
M	MCERTS accredited.
NA	Not applicable
NAD	No Asbestos Detected.
ND	None Detected (usually refers to VOC and/SVOC TICs).
NDP	No Determination Possible
SS	Calibrated against a single substance.
SV	Surrogate recovery outside performance criteria. This may be due to a matrix effect.
W	Results expressed on as received basis.
+	AQC failure, accreditation has been removed from this result, if appropriate, see 'Note' on previous page.
++	Result outside calibration range, results should be considered as indicative only and are not accredited.
*	Analysis subcontracted to a Jones Environmental approved laboratory.
CO	Suspected carry over
NFD	No Fibres Detected

JE Job No 13/1769

Test Method No.	Description	Prep Method No. (if appropriate)	Description	UKAS	MCERTS (soils only)	Analysis done on As Received (AR) or Air Dried (AD)	Solid Results expressed on Dry/Wet basis
TM4	16 PAH by GC-MS, modified USEPA 8270	PM30	Magnetic stirrer extraction				
TM4	16 PAH by GC-MS, modified USEPA 8270	PM30	Magnetic stirrer extraction	Yes			
TM5	EPH by GC-FID, modified USEPA 8015	PM30	Magnetic stirrer extraction	Yes			
TM5	EPH by GC-FID, modified USEPA 8015	PM30	Magnetic stirrer extraction	Yes		AR	
TM5/TM36	TPH CWG by GC-FID	PM30	Magnetic stirrer extraction				
TM5/TM36	TPH CWG by GC-FID	PM30	Magnetic stirrer extraction	Yes			
TM15	VOC - Target by GC-MS, modified USEPA 8260	PM10	VOC GC-MS				
TM15	VOC - Target by GC-MS, modified USEPA 8260	PM10	VOC GC-MS	Yes			
TM16	SVOC - Target by GC-MS, modified USEPA 8270	PM30	Magnetic stirrer extraction				
TM16	SVOC - Target by GC-MS, modified USEPA 8270	PM30	Magnetic stirrer extraction	Yes			
TM25	Dissolved Methane, Ethane, Ethene by GC-FID	PM0	No Preparation				
TM26	Phenols by HPLC	PM0	No Preparation				
TM30	Metals by ICP-OES	PM0	No Preparation				
TM30	Metals by ICP-OES	PM14	Metals by ICP (Waters)				
TM30	Metals by ICP-OES	PM14	Metals by ICP (Waters)	Yes			
TM30/TM48	Ferric Iron by ICP-OES and Photometer	PM0	No Preparation				
TM36	GRO by Headspace GC-FID	PM12	GRO GC-FID	Yes			
TM37	Total Suspended Solids- gravimetric	PM0	No Preparation				
TM38	SO4,Cl,NO3,NO2,F,PO4, Amm N2,ThioCN, Hex Cr by Aquakem	PM0	No Preparation	Yes			
TM48	Ferrous Iron by ICP-OES and Colourimetry	PM0	No Preparation				
TM59	Dissolved oxygen using DO meter	PM0	No Preparation				
TM60	TOC/DOC by NDIR	PM0	No Preparation				
TM61	Mercury - low level CVAF	PM38	Mercury CVAF	Yes			
TM62	Mn (II) by Colourimetric measurement	PM0	No Preparation				
TM73	pH in by Metrohm	PM0	No Preparation	Yes			
TM75	Alkalinity by Metrohm	PM0	No Preparation	Yes			
TM76	Electrical Conductivity by Metrohm	PM0	No Preparation	Yes			
TM89	Cyanide by FIA	PM0	No Preparation				
TM89	Cyanide by FIA	PM0	No Preparation	Yes			
TM106	Sulphide by CFA	PM0	No Preparation				
TM107	Thiocyanate by CFA	PM0	No Preparation				

Jones Environmental Laboratory

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WYG
Arndale Court
Arndale Centre
Otley Road
Leeds
LS6 2UJ

No.4225

Attention :	Jonathan Boyes
Date :	20th March, 2013
Your reference :	A74754-28
Our reference :	Test Report 13/2571 Batch 1
Location :	BRADFORD RD
Date samples received :	7th March, 2013
Status :	Final report
Issue :	1

Six samples were received for analysis on 7th March, 2013. Please find attached our Test Report which should be read with notes at the end of the report and should include all sections if reproduced. Interpretations and opinions are outside the scope of any accreditation, and all results relate only to samples supplied.
All analysis is carried out on as received samples and reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected.

Compiled By:

Phil Sommerton B.Sc
Project Manager

Bob Millward B.Sc
Principal Chemist

Client Name: WYG

Reference: A74754-28

Location: BRADFORD RD

Contact: Jonathan Boyes

JE Job No.: 13/2571

Report : Liquid

Liquids/products: V=40ml vial, G=glass bottle, P=plastic bottle
$H=H_2SO_4$, Z=ZnAc, N=NaOH, $HN=HN0_3$

J E Sample No.	1-9	10-19	20-28	29-35	36-42	43-46					LOD	Units	Method No.
Sample ID	BH102	RBH101	RBH102	BH2	DUP060313	TRIPBLANK							
Depth													
COC No / misc													
Containers	V H HCL N Z P G	V H HCL N Z P G	V H N Z P G	V H N Z P G	V H N Z P G	V P G							
Sample Date	06/03/2013	06/03/2013	06/03/2013	06/03/2013	06/03/2013	06/03/2013							
Sample Type	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Trip Blank							
Batch Number	1	1	1	1	1	1							
Date of Receipt	07/03/2013	07/03/2013	07/03/2013	07/03/2013	07/03/2013	07/03/2013							
Dissolved Arsenic #	0.0064	0.0078	0.0041	<0.0009	0.0045	<0.0009					<0.0009	mg/l	TM30/PM14
Dissolved Cadmium #	<0.00003	<0.00003	<0.00003	0.00016	0.00006	<0.00003					<0.00003	mg/l	TM30/PM14
Total Dissolved Chromium #	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002					<0.0002	mg/l	TM30/PM14
Dissolved Copper #	<0.003	<0.003	<0.003	<0.003	<0.003	0.006					<0.003	mg/l	TM30/PM14
Total Dissolved Iron #	<0.0047	<0.0047	0.4976	<0.0047	<0.0047	<0.0047					<0.0047	mg/l	TM30/PM14
Dissolved Lead #	0.0102	0.0089	0.0115	0.0006	0.0016	<0.0004					<0.0004	mg/l	TM30/PM14
Dissolved Nickel #	0.0042	0.0008	0.0039	0.0013	<0.0002	<0.0002					<0.0002	mg/l	TM30/PM14
Dissolved Selenium #	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012					<0.0012	mg/l	TM30/PM14
Dissolved Zinc #	<0.0015	<0.0015	0.0041	<0.0015	<0.0015	<0.0015					<0.0015	mg/l	TM30/PM14
Mercury Dissolved by CVAF #	0.01	<0.01	<0.01	<0.01	<0.01	<0.01					<0.01	ug/l	TM61/PM38
Total Hardness Dissolved (as CaCO3)	475	382	282	257	-	-					<1	mg/l	TM30/PM0
Total Dissolved Sulphur	17.18	9.12	15.93	11.90	13.45	<0.01					<0.01	mg/l	TM30/PM14
PAH MS													
Naphthalene #	0.000340	0.000250	<0.000014	<0.000014	0.000030	0.000040					<0.000014	mg/l	TM4/PM30
Acenaphthylene #	0.000070	0.000020	<0.000013	<0.000013	<0.000013	<0.000013					<0.000013	mg/l	TM4/PM30
Acenaphthene #	0.007910	0.000020	<0.000013	<0.000013	<0.000013	<0.000013					<0.000013	mg/l	TM4/PM30
Fluorene #	0.001860	0.000030	<0.000014	<0.000014	<0.000014	<0.000014					<0.000014	mg/l	TM4/PM30
Phenanthrene #	0.000510	0.000030	<0.000011	<0.000011	<0.000011	<0.000011					<0.000011	mg/l	TM4/PM30
Anthracene #	0.000190	<0.000013	<0.000013	<0.000013	<0.000013	<0.000013					<0.000013	mg/l	TM4/PM30
Fluoranthene #	0.000120	<0.000012	<0.000012	<0.000012	<0.000012	<0.000012					<0.000012	mg/l	TM4/PM30
Pyrene #	0.000080	<0.000013	<0.000013	<0.000013	<0.000013	<0.000013					<0.000013	mg/l	TM4/PM30
Benzo(a)anthracene #	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015					<0.000015	mg/l	TM4/PM30
Chrysene #	<0.000011	<0.000011	<0.000011	<0.000011	<0.000011	<0.000011					<0.000011	mg/l	TM4/PM30
Benzo(bk)fluoranthene #	<0.000018	<0.000018	<0.000018	<0.000018	<0.000018	<0.000018					<0.000018	mg/l	TM4/PM30
Benzo(a)pyrene #	<0.000016	<0.000016	<0.000016	<0.000016	<0.000016	<0.000016					<0.000016	mg/l	TM4/PM30
Indeno(123cd)pyrene #	<0.000011	<0.000011	<0.000011	<0.000011	<0.000011	<0.000011					<0.000011	mg/l	TM4/PM30
Dibenzo(ah)anthracene #	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001					<0.00001	mg/l	TM4/PM30
Benzo(ghi)perylene #	<0.000011	<0.000011	<0.000011	<0.000011	<0.000011	<0.000011					<0.000011	mg/l	TM4/PM30
PAH 16 Total #	0.011080	0.000350	<0.000195	<0.000195	<0.000195	<0.000195					<0.000195	mg/l	TM4/PM30
Benzo(b)fluoranthene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001					<0.00001	mg/l	TM4/PM30
Benzo(k)fluoranthene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001					<0.00001	mg/l	TM4/PM30
PAH Surrogate % Recovery	106	102	95	93	88	95					<0	%	TM4/PM30
Methyl Tertiary Butyl Ether #	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001					<0.001	mg/l	TM15/PM10
Benzene #	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001					<0.001	mg/l	TM15/PM10
Toluene #	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002					<0.002	mg/l	TM15/PM10
Ethylbenzene #	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002					<0.002	mg/l	TM15/PM10
p/m-Xylene #	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003					<0.003	mg/l	TM15/PM10
o-Xylene #	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002					<0.002	mg/l	TM15/PM10
Surrogate Recovery Toluene D8	121	122	121	122	120	120					<0	%	TM15/PM10
Surrogate Recovery 4-Bromofluorobenzene	126	128	127	130	123	128					<0	%	TM15/PM10
EPH (C8-C40) #	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01					<0.01	mg/l	TM5/PM30

Please see attached notes for all abbreviations and acronyms

Jones Environmental Laboratory

Client Name: WYG

Reference: A74754-28

Location: BRADFORD RD

Contact: Jonathan Boyes

JE Job No.: 13/2571

Report : Liquid

Liquids/products: V=40ml vial, G=glass bottle, P=plastic bottle
$H=H_2SO_4$, Z=ZnAc, N=NaOH, $HN=HN0_3$

Please see attached notes for all abbreviations and acronyms

J E Sample No.	1-9	10-19	20-28	29-35	36-42	43-46					LOD	Units	Method No.
Sample ID	BH102	RBH101	RBH102	BH2	DUP060313	TRIPBLANK							
Depth													
COC No / misc													
Containers	V H HCL N Z P G	V H HCL N Z P G	V H N Z P G	V H N Z P G	V H N Z P G	V P G							
Sample Date	06/03/2013	06/03/2013	06/03/2013	06/03/2013	06/03/2013	06/03/2013							
Sample Type	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Trip Blank							
Batch Number	1	1	1	1	1	1							
Date of Receipt	07/03/2013	07/03/2013	07/03/2013	07/03/2013	07/03/2013	07/03/2013							
TPH CWG													
Aliphatics													
>C5-C6 #	<0.005	-	-	-	-	-					<0.005	mg/l	TM36/PM12
>C6-C8 #	<0.005	-	-	-	-	-					<0.005	mg/l	TM36/PM12
>C8-C10 #	<0.005	-	-	-	-	-					<0.005	mg/l	TM36/PM12
>C10-C12 #	<0.005	-	-	-	-	-					<0.005	mg/l	TM5/PM30
>C12-C16 #	<0.01	-	-	-	-	-					<0.01	mg/l	TM5/PM30
>C16-C21 #	<0.01	-	-	-	-	-					<0.01	mg/l	TM5/PM30
>C21-C35 #	<0.01	-	-	-	-	-					<0.01	mg/l	TM5/PM30
Total aliphatics C5-35 #	<0.01	-	-	-	-	-					<0.01	mg/l	TM5/TM36/PM30
Total aliphatics C5-C12 #	<0.01	-	-	-	-	-					<0.01	mg/l	TM5/TM36/PM30
Total aliphatics >C12-C35 #	<0.01	-	-	-	-	-					<0.01	mg/l	TM5/TM36/PM30
Aromatics													
>C5-EC7 #	<0.005	-	-	-	-	-					<0.005	mg/l	TM36/PM12
>EC7-EC8 #	<0.005	-	-	-	-	-					<0.005	mg/l	TM36/PM12
>EC8-EC10 #	<0.005	-	-	-	-	-					<0.005	mg/l	TM36/PM12
>EC10-EC12 #	<0.005	-	-	-	-	-					<0.005	mg/l	TM5/PM30
>EC12-EC16 #	<0.01	-	-	-	-	-					<0.01	mg/l	TM5/PM30
>EC16-EC21 #	<0.01	-	-	-	-	-					<0.01	mg/l	TM5/PM30
>EC21-EC35 #	<0.01	-	-	-	-	-					<0.01	mg/l	TM5/PM30
Total aromatics C5-35 #	<0.01	-	-	-	-	-					<0.01	mg/l	TM5/PM30
Total aromatics C6-C12	<0.01	-	-	-	-	-					<0.01	mg/l	TM5/TM36/PM30
Total aromatics >EC12-EC35 #	<0.01	-	-	-	-	-					<0.01	mg/l	TM5/TM36/PM30
Total aliphatics and aromatics(C5-35) #	<0.01	-	-	-	-	-					<0.01	mg/l	TM5/TM36/PM30
Resorcinol	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005					<0.0005	mg/l	TM26/PM0
Catechol	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005					<0.0005	mg/l	TM26/PM0
Phenol	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0015					<0.0005	mg/l	TM26/PM0
m/p-cresol	<0.0005	<0.0005	<0.0005	0.0023	<0.0005	<0.0005					<0.0005	mg/l	TM26/PM0
o-cresol	<0.0005	<0.0005	<0.0005	0.0009	<0.0005	<0.0005					<0.0005	mg/l	TM26/PM0
Total cresols	<0.0005	<0.0005	<0.0005	0.0032	<0.0005	<0.0005					<0.0005	mg/l	TM26/PM0
Xylenols	<0.0005	<0.0005	<0.0005	0.0219	<0.0005	0.0069					<0.0005	mg/l	TM26/PM0
1-naphthol	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0016					<0.0005	mg/l	TM26/PM0
2,3,5-trimethyl phenol	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005					<0.0005	mg/l	TM26/PM0
2-isopropylphenol	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005					<0.0005	mg/l	TM26/PM0
Total Speciated Phenols HPLC	<0.005	<0.005	<0.005	0.025	<0.005	0.010					<0.005	mg/l	TM26/PM0
Sulphate #	102.92	51.18	93.58	75.80	81.60	0.75					<0.05	mg/l	TM38/PM0
Chloride #	265.9	18.7	26.5	23.3	24.8	<0.3					<0.3	mg/l	TM38/PM0
Nitrate as NO3 #	<0.2	<0.2	-	-	-	-					<0.2	mg/l	TM38/PM0
Nitrite as NO2 #	<0.02	<0.02	-	-	-	-					<0.02	mg/l	TM38/PM0
Free Cyanide #	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005					<0.005	mg/l	TM89/PM0
Total Cyanide	0.025	<0.005	<0.005	0.016	0.024	<0.005					<0.005	mg/l	TM89/PM0

Jones Environmental Laboratory

Client Name: WYG

Reference: A74754-28

Location: BRADFORD RD

Contact: Jonathan Boyes

JE Job No.: 13/2571

Report : Liquid

Liquids/products: V=40ml vial, G=glass bottle, P=plastic bottle
$H=H_2SO_4$, Z=ZnAc, N=NaOH, $HN=HN0_3$

Please see attached notes for all abbreviations and acronyms

J E Sample No.	1-9	10-19	20-28	29-35	36-42	43-46					LOD	Units	Method No.
Sample ID	BH102	RBH101	RBH102	BH2	DUP060313	TRIPBLANK							
Depth													
COC No / misc													
Containers	V H HCL N Z P G	V H HCL N Z P G	V H N Z P G	V H N Z P G	V H N Z P G	V P G							
Sample Date	06/03/2013	06/03/2013	06/03/2013	06/03/2013	06/03/2013	06/03/2013							
Sample Type	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Trip Blank							
Batch Number	1	1	1	1	1	1							
Date of Receipt	07/03/2013	07/03/2013	07/03/2013	07/03/2013	07/03/2013	07/03/2013							
Complex Cyanide	0.03	<0.01	<0.01	0.02	0.02	<0.01					<0.01	mg/l	TM89/PM0
Ammoniacal Nitrogen as NH4 #	0.93	0.40	0.47	0.37	0.34	<0.03					<0.03	mg/l	TM38/PM0
Dissolved Methane	0.048	0.425	-	-	-	-					<0.001	mg/l	TM25/PM0
Total Alkalinity as CaCO3 #	472	1802	-	-	-	-					<1	mg/l	TM75/PM0
Sulphide	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3					<0.3	mg/l	TM106/PM0
Thiocyanate	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02					<0.02	mg/l	TM107/PM0
Dissolved Oxygen	5	3	-	-	-	-					<1	mg/l	TM59/PM0
Dissolved Organic Carbon	11	<2	<2	<2	<2	<2					<2	mg/l	TM60/PM0
Electrical Conductivity @25C #	1882	964	706	640	660	20					<2	uS/cm	TM76/PM0
Iron II	2.65	21.00	-	-	-	-					<0.02	mg/l	TM48/PM0
Iron III	76.04	1770.00	-	-	-	-					<0.02	mg/l	TM30/TM48/PM0
Manganese II	11.56	23.45	-	-	-	-					<0.02	mg/l	TM62/PM0
pH #	7.59	7.13	7.52	7.42	7.69	8.11					<0.01	pH units	TM73/PM0
Total Organic Carbon	21	8	-	-	-	-					<2	mg/l	TM60/PM0
Total Suspended Solids	1643	139605	25220	6105	8540	<10					<10	mg/l	TM37/PM0

Please include all sections of this report if it is reproduced

All solid results are expressed on a dry weight basis unless stated otherwise.

NOTES TO ACCOMPANY ALL SCHEDULES AND REPORTS

JE Job No.: 13/2571

SOILS

Please note we are only MCERTS accredited for sand, loam and clay and any other matrix is outside our scope of accreditation.

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation has been performed on clay, sand and loam, only samples that are predominantly these matrices, or combinations of them will be within our MCERTS scope. If samples are not one of a combination of the above matrices they will not be marked as MCERTS accredited.

It is assumed that you have taken representative samples on site and require analysis on a representative subsample. Stones will generally be included unless we are requested to remove them.

All samples will be discarded one month after the date of reporting, unless we are instructed to the contrary. If we are instructed to keep samples, a storage charge of £1 (1.5 Euros) per sample per month will be applied until we are asked to dispose of them.

If you have not already done so, please send us a purchase order if this is required by your company.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

All analysis is reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected. Samples are dried at 35°C ±5°C unless otherwise stated. Moisture content for CEN Leachate tests are dried at 105°C ±5°C.

WATERS

Please note we are not a Drinking Water Inspectorate (DWI) Approved Laboratory . It is important that detection limits are carefully considered when requesting water analysis.

UKAS accreditation applies to surface water and groundwater and one other matrix which is analysis specific, any other liquids are outside our scope of accreditation

As surface waters require different sample preparation to groundwaters the laboratory must be informed of the water type when submitting samples.

DEVIATING SAMPLES

Samples must be received in a condition appropriate to the requested analyses. All samples should be submitted to the laboratory in suitable containers with sufficient ice packs to sustain an appropriate temperature for the requested analysis. If this is not the case you will be informed and any test results that may be compromised highlighted on your deviating samples report.

SURROGATES

Surrogate compounds are added during the preparation process to monitor recovery of analytes. However low recovery in soils is often due to peat, clay or other organic rich matrices. For waters this can be due to oxidants, surfactants, organic rich sediments or remediation fluids. Acceptable limits for most organic methods are 70 - 130% and for VOCs are 50 - 150%. When surrogate recoveries are outside the performance criteria but the associated AQC passes this is assumed to be due to matrix effect. Results are not surrogate corrected.

NOTE

Data is only accredited when all the requirements of our Quality System have been met. In certain circumstances where the requirements have not been met, the laboratory may issue the data in an interim report but will remove the accreditation, in this instance results should be considered indicative only. Where possible samples will be re-extracted and a final report issued with accredited results. Please do not hesitate to contact the laboratory if further details are required of the circumstances which have led to the removal of accreditation.

ABBREVIATIONS and ACRONYMS USED

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NA	Not applicable
NAD	No Asbestos Detected.
ND	None Detected (usually refers to VOC and/SVOC TICs).
NDP	No Determination Possible
SS	Calibrated against a single substance.
SV	Surrogate recovery outside performance criteria. This may be due to a matrix effect.
W	Results expressed on as received basis.
+	AQC failure, accreditation has been removed from this result, if appropriate, see 'Note' on previous page.
++	Result outside calibration range, results should be considered as indicative only and are not accredited.
*	Analysis subcontracted to a Jones Environmental approved laboratory.
CO	Suspected carry over
NFD	No Fibres Detected

JE Job No 13/2571

Test Method No.	Description	Prep Method No. (if appropriate)	Description	UKAS	MCERTS (soils only)	Analysis done on As Received (AR) or Air Dried (AD)	Solid Results expressed on Dry/Wet basis
TM4	16 PAH by GC-MS, modified USEPA 8270	PM30	Magnetic stirrer extraction				
TM4	16 PAH by GC-MS, modified USEPA 8270	PM30	Magnetic stirrer extraction	Yes			
TM5	EPH by GC-FID, modified USEPA 8015	PM30	Magnetic stirrer extraction	Yes			
TM5	EPH by GC-FID, modified USEPA 8015	PM30	Magnetic stirrer extraction	Yes		AR	
TM5/TM36	TPH CWG by GC-FID	PM30	Magnetic stirrer extraction				
TM5/TM36	TPH CWG by GC-FID	PM30	Magnetic stirrer extraction	Yes			
TM15	VOC - Target by GC-MS, modified USEPA 8260	PM10	VOC GC-MS				
TM15	VOC - Target by GC-MS, modified USEPA 8260	PM10	VOC GC-MS	Yes			
TM25	Dissolved Methane, Ethane, Ethene by GC-FID	PM0	No Preparation				
TM26	Phenols by HPLC	PM0	No Preparation				
TM30	Metals by ICP-OES	PM0	No Preparation				
TM30	Metals by ICP-OES	PM14	Metals by ICP (Waters)				
TM30	Metals by ICP-OES	PM14	Metals by ICP (Waters)	Yes			
TM30/TM48	Ferric Iron by ICP-OES and Photometer	PM0	No Preparation				
TM36	GRO by Headspace GC-FID	PM12	GRO GC-FID	Yes			
TM37	Total Suspended Solids- gravimetric	PM0	No Preparation				
TM38	SO4,Cl,NO3,NO2,F,PO4, Amm N2,ThioCN, Hex Cr by Aquakem	PM0	No Preparation	Yes			
TM48	Ferrous Iron by ICP-OES and Colourimetry	PM0	No Preparation				
TM59	Dissolved oxygen using DO meter	PM0	No Preparation				
TM60	TOC/DOC by NDIR	PM0	No Preparation				
TM61	Mercury - low level CVAF	PM38	Mercury CVAF	Yes			
TM62	Mn (II) by Colourimetric measurement	PM0	No Preparation				
TM73	pH in by Metrohm	PM0	No Preparation	Yes			
TM75	Alkalinity by Metrohm	PM0	No Preparation	Yes			
TM76	Electrical Conductivity by Metrohm	PM0	No Preparation	Yes			
TM89	Cyanide by FIA	PM0	No Preparation				
TM89	Cyanide by FIA	PM0	No Preparation	Yes			
TM106	Sulphide by CFA	PM0	No Preparation				
TM107	Thiocyanate by CFA	PM0	No Preparation				

Appendix G10 – Chemical Analysis Summary Tables



COMMERCIAL / INDUSTRIAL V11 HH 2.5% SOM

		MG - G = Granular Made Ground				13/727	13/685 b2	13/685 b2	13/685 b2	13/685 b2	13/685	13/685	13/685	13/888	13/888	13/1069	13/685 b2	13/685 b2	13/685 b2	13/685 b2	13/685 b2	13/685 b2	13/685	13/685	13/685	13/727	13/727	13/727	13/685	13/685	13/685	13/685	13/685	13/685	13/685
		MG - C = Cohesive Made Ground		Sample ID		BH101 0.5	BH102	BH102	BH102	BH102	RBH101	RBH101	RBH101	RBH102	RBH102	RBH102	HP101	HP101	HP102	HP102	HP103	HP103	TP101	TP101	TP101	TP102 0.2	TP102 0.4	TP103A 0.3	TP104	TP104	TP104	TP105	TP105	TP105	TP105
Report:	Solid	MG - M = Matrix Made Ground		Depth	TSV Source	0.5	1.3	1.6	2.7	3.5	0.4	1.2	18.8	0.20	1.00	14.6-14.9	0.3	0.9	0.2	1.1	0.3 (recorded	1.0	0.3	0.4	1.0	0.2	0.4	0.3	0.2	0.6	0.8	0.4	0.6	0.8	0.9
JE Job No:		GT = Glacial Till		Strata Type	SGV	MG - G	GT	GT	Sand pocket	GT	MG - G	GT	MST	MG - C	GT	SiST	MG - G	GT	MG - G	GT	MG - G	GT	MG - G	GT	GT	MG-G	MG - G	MG - G	MG - C	MG - G	GT	MG - G	MG - G	silty CLAY	GT
Client:	WYG	Y / SAND / SILT = potential alluvium		Notes	CIEH / LQM SSV	HP only, Inc c	Drilled though TP105 - Inc. coal			Inc. coal	Inc. clinker	Inc. coal			Inc. rare coal		Inc. clinker		Inc. clinker		Inc. clinker			Black staining		Black staining	odour & sheen			Inc. clinker		Strong HC	odour and sh	odour & sheen	
Client ref:	A74754-28	MST = Mudstone		Containers	SSV, CLEA 1.06	V J T	V J T	V J T	V J	V J	V J T	V J T	V J	V J T	V J T	V J T	V J T	V J	V J T	V J T	V J T	V J T	T	V J T	V J T	V J	J T	V J T	V J T	V J T	V J T	T	V J T	V J	V J
Location:	BRADFORD ROAD MANCHESTER	SiSt = siltstone		Sampled Date	SGV / CLEA 1.06	11/01/2013	14/01/2013	14/01/2013	14/01/2013	14/01/2013	09/01/2013	09/01/2013	10/01/2013	15/01/2013	15/01/2013	16/01/2013	14/01/2013	14/01/2013	14/01/2013	14/01/2013	14/01/2013	14/01/2013	10/01/2013	10/01/2013	10/01/2013	11/01/2013	11/01/2013	11/01/2013	10/01/2013	10/01/2013	10/01/2013	10/01/2013	10/01/2013	10/01/2013	10/01/2013
Contact	Jonathan Boyes	SST = Sandstone		Sample Received Date		12/01/2013	16/01/2013	16/01/2013	16/01/2013	16/01/2013	11/01/2013	11/01/2013	11/01/2013	17/01/2013	17/01/2013	23/01/2013	16/01/2013	16/01/2013	16/01/2013	16/01/2013	16/01/2013	16/01/2013	11/01/2013	11/01/2013	11/01/2013	12/01/2013	12/01/2013	12/01/2013	11/01/2013	11/01/2013	11/01/2013	11/01/2013	11/01/2013	11/01/2013	11/01/2013
		Inc.' = gravel includes		J E Sample No		5-8	37-39	40-42	43-44	45-46	1-3	4-6	35-36	35-37	38-40	1-3	47-49	50-51	52-55	56-58	59-62	63-65	25	29-31	32-34	1-2	3-4	9-11	16-18	19-21	22-24	7	8-11	12-13	14-15
				Batch Number		1	2	2	2	2	1	1	1	1	1	1	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1
				Water strike			0.6	3.0						0.6					0.0							0.2			0.2	fast		0.5			
							seepage	seepage						Moderate					steady							fast / steady						Fast - from SE			
CAS Number	Test	Method	Units	LOD	TSV																														
	Moisture Content 105C (% Dry Weigh	NONE/PM4	%	<0.1		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dry Matter Content Ratio 105°C	NONE/PM4	%	<0.1		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Natural Moisture Content	PM4/PM0	%	<0.1		NDP	22.8	24.7	21.3	18.7	NDP	18.1	12.4	NDP	23.8	20.9	NDP	18.4	NDP	19.5	NDP	18.3	NA	12	13.4	NDP	12.9	9.4	26	NDP	18.2	NA	NDP	41.7	28.7
	Stone Content >= 10mm	PM4/PM0	%	<0.1		NDP	12.2	<0.1	6.2	<0.1	NDP	0.1	<0.1	NDP	3.1	<0.1	NDP	<0.1	NDP	<0.1	NDP	<0.1	NA	46	<0.1	NDP	61.1	86.2	0.5	NDP	3.9	NA	NDP	<0.1	<0.1
	Free Cyanide	TM89/PM45	mg/kg	<0.5	36	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA	<0.5	<0.5	<0.5
	Total Cyanide#	TM89/PM45	mg/kg	<0.5	36	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.1	<0.5	<0.5	33.2	<0.5	17	<0.5	7.3	<0.5	NA	<0.5	<0.5	0.7	<0.5	0.7	<0.5	<0.5	2.7	NA	0.9	<0.5	0.6
	Complex Cyanide	TM89/PM45	mg/kg	<0.5	36	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.1	<0.5	<0.5	33.2	<0.5	17	<0.5	7.3	<0.5	NA	<0.5	<0.5	0.7	<0.5	0.7	<0.5	<0.5	2.7	NA	0.9	<0.5	0.6
	TSV = acute effects nfant dose (3g soil)																																		
	Sulphate as SO4 (2:1 Ext)#	TM38/PM20	g/l	<0.0015		NA	0.0828	0.0417	0.0395	0.0883	NA	0.0696	0.0538	NA	0.106	0.0321	NA	0.0318	NA	0.0573	NA	0.0694	NA	0.0116	0.0167	NA	0.0142	0.0314	0.0074	NA	0.0445	NA	NA	0.0679	0.0091
302-04-5	Thiocyanate	TM107/PM45	mg/kg	<0.6		<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	NA	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	NA	2.9	5.4	1.5
	Elemental Sulphur	TM108/PM8	mg/kg	<1		<1	14	<1	<1	<1	<1	<1	<1	1	<1	<1	119	<1	5	<1	10	<1	NA	6	<1	<1	<1	3	<1	29	<1	NA	78	163	4
	Loss on Ignition#	TM22/PM0	%	<1.0		NDP	3.5	4.2	17	15.7	NDP	4.4	4.9	NDP	4.4	13.3	NDP	3	NDP	3.3	NDP	3.8	NA	3.4	3.4	NDP	3.5	4.5	5.4	NDP	4	NA	NDP	13.7	5.5
	Total Organic Carbon#	TM21/PM24	%	<0.2		NA	NA	NA	0.8	NA	NDP	1.2	0.7	NA	NA	1.2	NA	NA	NA	NA	NA	1.1	NA	4.7	0.7	NDP	NA	NA	NA	NA	1	NA	NA	NA	1
	pH#	TM73/PM11	pH units	<0.01	9	8.77	8.32	7.76	9	8.49	8.62	8.33	8.2	8	8.35	8.82	8.1	8.79	8.15	8.54	9.75	8.4	NA	8.24	8.25	8.46	8.44	8.79	7.76	9.96	8.33	NA	9.99	7.6	7.32
	Ammoniacal Nitrogen as NH4	TM38/PM20	mg/kg	<0.6		<0.6	4.5	<0.6	<0.6	<0.6	<0.6	<0.6	1.5	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	NA	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	1.6	0.9	NA	1.3	5.1	1.3
16887-00-6	Chloride#	TM38/PM20	mg/kg	<2		NA	134	64	97	172	NA	21	20	NA	37	11	NA	12	NA	13	NA	9	NA	11	16	NA	30	32	14	NA	32	NA	NA	82	40
16887-00-6	Chloride#	TM38/PM60	mg/kg	<2		10	NA	NA	NA	NA	9	NA	NA	5	NA	NA	<2	NA	<2	NA	35	NA	NA	NA	NA	6	NA	NA	NA	84	NA	NA	61	NA	NA
	Sulphate as SO4 (2:1 Ext)#	TM38/PM60	g/l	<0.0015		0.018	NA	NA	NA	NA	0.1073	NA	NA	0.0169	NA	NA	0.0082	NA	0.026	NA	0.1042	NA	NA	NA	NA	0.0078	NA	NA	NA	0.0544	NA	NA	0.0396	NA	NA
	Metals	TM30/PM62																																	
7440-38-2	Arsenic#	TM30/PM15	mg/kg	<0.5	640	55.2	8.7	11.4	6.4	2.7	8.9	8.8	20.7	12.2	8.7	5.5	62.1	8.7	17.3	6.5	162	14.4	NA	11.2	9.5	9.4	4.4	7.9	9.5	20.4	7.8	NA	41.3	27.1	11.2
7440-43-9	Cadmium#	TM30/PM15	mg/kg	<0.1	230	0.2	0.3	<0.1	<0.1	0.1	0.2	<0.1	0.2	0.7	<0.1	0.2	0.1	0.1	0.1	<0.1	<0.1	<0.1	NA	0.2	<0.1	0.5	0.7	0.4	<0.1	<0.1	<0.1	NA	0.7	0.3	0.2
7440-47-3	Chromium#	TM30/PM15	mg/kg	<0.5	30,400	26.3	22.5	33.6	17.4	29	13	33.4	22.9	20.3	27.6	17	18.2	25.3	13.7	27	11	30.3	NA	13.7	22.5	12.9	6.9	15.7	35.2	9.1	27.3	NA	13.7	32	31
	Hexavalent Chromium				35		NA	NA	NA	NA		NA	NA		NA	NA		NA		NA		NA	NA	NA	NA		NA	NA	NA		NA	NA		NA	NA
7440-50-8	Copper#	TM30/PM15	mg/kg	<1	71700	94	28	24	20	24	27	16	23	100	60	34	216	28	97	26	57	25	NA	18	14	28	26	43	29	36	14	NA	62	66	23
	Iron						NA	NA	NA	NA		NA	NA		NA	NA		NA		NA		NA	NA	NA	NA		NA	NA	NA		NA	NA		NA	NA
7439-92-1	Lead#	TM30/PM15	mg/kg	<5	4640	313	18	10	9	8	69	8	14	160	12	19	1317	45	244	10	192	11	NA	210	10	97	46	78	18	14	11	NA	77	155	18
7439-97-6	Mercury#	TM30/PM15	mg/kg	<0.1	45	0.2	0.3	0.1	<0.1	0.2	<0.1	<0.1	<0.1	0.2	<0.1	0.1	0.1	<0.1	<0.1	<0.1	<0.1	0.1	NA	<0.1	<0.1	0.2	0.2	0.2	<0.1	<0.1	<0.1	NA	<0.1	0.4	<0.1
7440-02-0	Nickel#	TM30/PM15	mg/kg	<0.7	1800	56.2	39.2	55.1	24.9	34.9	17.1	39.6	51.1	27.3	37	31.6	51.4	34.5	51.1	35.4	51.8	38.2	NA	20.1	30	17.5	7.6	17	52.7	32	39.2	NA	37.4	55.6	61.5
7782-49-2	Selenium#	TM30/PM15	mg/kg	<1	13000	<1	<1	<1	<1	<1	<1	<1	<1	1	<1	<1	2	<1	1	<1	2	<1	NA	<1	<1	<1	<1	<1	1	2	1	NA	<1	2	2
	Vanadium				3160		NA	NA	NA	NA		NA	NA		NA	NA		NA		NA		NA	NA	NA	NA		NA	NA	NA		NA	NA		NA	NA
7440-42-8	Water Soluble Boron#	TM74/PM32	mg/kg	<0.1	192000	1.3	2.3	2.5	0.8	0.8	0.7	1.6	0.8	0.9	1.5	1.1	0.2	2.1	0.8	1.3	1	1.1	NA	0.5	0.8	0.2	0.4	0.5	1.4	0.8	1.3	NA	1	3.5	3.1
7440-66-6	Zinc#	TM30/PM15	mg/kg	<5	665000	151	79	93	54	64	67	70	115	170	70	105	137	80	79	65	155	68	NA	48	55	112	66	137	112	28	65	NA	73	111	113
	PAH MS																																		
83-32-9	Acenaphthene#	TM4/PM8	mg/kg	<0.05	98000	<0.25	0.61	0.25	<0.05	<0.05	0.1	<0.05	<0.05	0.18	<0.05	<0.05	9.18	0.21	0.08	<0.05	0.09	<0.05	NA	0.11	<0.05	<0.50	<0.50	<0.05	<0.05	0.59	<0.05	NA	20.44	4.02	0.49
208-96-8	Acenaphthylene	TM4/PM8	mg/kg	<0.03	97000	1.05	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.09	<0.03	<0.03	2.39	0.07	0.13	<0.03	0.59	<0.03	NA	2.16	<0.03	<0.30	0.45	0.08	<0.03	0.26	<0.03	NA	3.94	0.79	<0.03
120-12-7	Anthracene#	TM4/PM8	mg/kg	<0.04	540,000	0.75	0.44	0.14	<0.04	<0.04	0.2	<0.04	<0.04	0.33	<0.04	<0.04	21.74	0.34	0.22	<0.04	0.75	0.05	NA	1.3	<0.04	0.97	0.85	0.09	<0.04	2.21	<0.04	NA	13.68	3.64	0.18
56-55-3	Benzo(a)anthracene#	TM4/PM8	mg/kg	<0.06	95	1.89	0.1	<0.06	<0.06	<0.06	0.4	<0.06	<0.06	1.21	<0.06	<0.06	26.47	0.9	0.62	<0.06	2.07	0.14	NA	4.57	<0.06	1.72	1.7	0.2	<0.06	5.75	<0.06	NA	5.28	3.51	<0.06
50-32-8	Benzo(a)pyrene#	TM4/PM8	mg/kg	<0.04	14	1.83	<0.04	<0.04	<0.04	<0.04	0.4	<0.04	<0.04	1.34	<0.04	<0.04	35.2	1.1	0.84	<0.04	2.66	0.12	NA	6.45	<0.04	2.72	2.43	0.24	<0.04	11.34	0.08	NA	4.94	3.09	<0.04
205-99-2	Benzo(b)fluoranthene	TM4/PM8	mg/kg	<0.05	100	2.46	<0.05	<0.05	<0.05	<0.05	0.49	<0.05	<0.05	1.67	<0.05	<0.05	42.29	1.26	1.11	<0.05	3.69	0.16	NA	9.25	<0.05	2.89	2.88	0.4	<0.05	11.2	0.08	NA	5.41	3.38	<0.05
191-24-2	Benzo(ghi)perylene#	TM4/PM8	mg/kg	<0.04	660	1.43	<0.04	<0.04	<0.04	<0.04	0.21	<0.04	<0.04	0.94	<0.04	<0.04	22.45	0.69	0.57	<0.04	1.82	0.08	NA	4.29	<0.04	1.55	1.63	0.2	<0.04	7.95	0.06	NA	3.01	1.62	<0.04
207-08-9	Benzo(k)fluoranthene	TM4/PM8	mg/kg	<0.02	140	0.96	<0.02	<0.02	<0.02	<0.02	0.19	<0.02	<0.02	0.65	<0.02	<0.02	16.45	0.49	0.43	<0.02	1.44	0.06	NA	3.6	<0.02	1.13	1.12	0.15	<0.02	4.36	0.03	NA	2.1	1.32	<0.02
218-01-9	Chrysene#	TM4/PM8	mg/kg	<0.02	140	1.48	0.07	0.02	<0.02	<0.02	0.38	<0.02	<0.02	1.45	<0.02	<0.02	31.67	1.11	0.76	<0.02	2.51	0.12	NA	6.89	<0.02	1.89	2.09	0.22	<0.02	5.77	0.05	NA	4.4	3.76	0.03
53-70-3	Dibenzo(ah)anthracene#	TM4/PM8	mg/kg	<0.04	13	0.37	<0.04	<0.04	<0.04	<0.04	0.04	<0.04	<0.04	0.14	<0.04	<0.04	4.58	0.15	0.13	<0.04	0.51	<0.04	NA	0.96	<0.04	<0.40	<0.40	0.05	<0.04	2.1	<0.04	NA	0.42	0.41	<0.04
206-44-0	Fluoranthene#	TM4/PM8	mg/kg	<0.03	23000	3.35	0.49	0.16	<0.03	<0.03	1.05	<0.03	<0.03	2.3	<0.03	<0.03	90.47	2.19	1.47	<0.03	5.01	0.28	NA	17.18	<0.03	3.51	2.63	0.44	<0.03	8.54	0.07	NA	21.58	10.24	0.21
86-73-7	Fluorene#	TM4/PM8	mg/kg	<0.04	69000	0.22	0.42	0.12	<0.04	<0.04	0.08	<0.04	<0.04	0.11	<0.04	<0.04	7.3	0.17	0.06	<0.04	0.12	<0.04	NA	0.34	<0.04	<0.40	<0.40	<0.04	<0.04	0.59	<0.04	NA	17.94	3.1	0.13
193-39-5	Indeno(123cd)pyrene#	TM4/PM8	mg/kg	<0.04	61	1.37	<0.04	<0.04	<0.04	<0.04	0.22	<0.04	<0.04	0.97	<0.04	<0.04	22.21	0.67	0.65	<0.04	2.15	0.08	NA	4.96	<0.04	1.78	1.8	0.22	<0.04	8.56	0.06	NA	3.38	1.6	<0.04
91-20-3	Naphthalene#	TM4/PM8	mg/kg	<0.04	480	0.46	<0.04	<0.04	<0.04	<0.04	0.04	<0.04	<0.04	0.08	<0.04	<0.04	6.74	0.15	0.06	<0.04	0.27	<0.04	NA	0.41	<0.04	<0.40	<0.40	0.1	<0.04	0.68	<0.04	NA	1.46	1.26	<0.04
85-01-8	Phenanthrene#	TM4/PM8	mg/kg	<0.03	22000	1.85	1.07	0.17	<0.03	<0.03	0.83	<0.03	<0.03	1.26	<0.03	<0.03	73.91	1.43	0.62	<0.03	2.33	0.19	NA	10.14	<0.03	1.78	1.42	0.24	<0.03	5.57	0.06	NA	36.27	10.78	0.12
129-00-0	Pyrene#	TM4/PM8	mg/kg	<0.03	54000	2.78	0.32	0.1	<0.03	<0.03	0.83	<0.03	<0.03	2.32	<0.03	<0.03	81.9	2.15	1.18	<0.03	3.73	0.19	NA	13.1	<0.03	3.86	3.05	0.35	<0.03	7.7	0.06	NA	15.85	8.42	0.13
	PAH 16 Total	TM4/PM8	mg/kg	<0.6		22.3	3.5	1	<0.6	<0.6	5.5	<0.6	<0.6	15	<0.6	<0.6	495	13.1	8.9	<0.6	29.7	1.5	NA	85.7	<0.6	23.8	22.1	3	<0.6	83.2	<0.6	NA	160.1	60.9	1.3
	PAH Surrogate % Recovery	TM4/PM8	%	<0		96	98	99	100	95	89	103	99	100	104	105	105	103	100	112	98	97	NA	97	94	92	88	102	93	104	95	NA	97	79	101
	Benzo(bk)fluoranthene#	TM4/PM8	mg/kg	<0.07		3.42	<0.07	<0.07	<0.07	<0.07	0.68	<0.07	<0.07	2.32	<0.07	<0.07	58.74	1.75	1.54	<0.07	5.13	0.22	NA	12.85	<0.07	4.02	4	0.55	<0.07	15.56	0.11	NA	7.51	4.7	<0.07
191-07-1	Coronene	TM4/PM8	mg/kg	<0.04										NA	NA	NA																			
	PAH 17 Total	TM4/PM8	mg/kg	<0.64										NA	NA	NA																			
	TPH CWG																																		
	Aliphatics																																		
	>C5-C6#	TM36/PM12	mg/kg	<0.1	6,200	<0.1	<0.1	NA	<0.1	NA	<0.1	<0.1	<0.1	<0.1	NA	NA	<0.1	<0.1	NA	NA	<0.1	NA	NA	<0.1	<0.1	NA	<0.1	<0.1	<0.1	<0.1	<0.1	NA	<0.1	<0.1	<0.1
	>C6-C8#	TM36/PM12	mg/kg	<0.1	18,000	<0.1	<0.1	NA	<0.1	NA	0.1	0.1	<0.1	<0.1	NA	NA	<0.1	<0.1	NA	NA	<0.1	NA	NA	<0.1	<0.1	NA	<0.1	<0.1	<0.1	<0.1	0.1	NA	<0.1	<0.1	<0.1
	>C8-C10	TM36/PM12	mg/kg	<0.1	5,100	<0.1	0.1	NA	<0.1	NA	0.4	0.5	0.1	<0.1	NA	NA	<0.1	0.4	NA	NA	<0.1	NA	NA	<0.1	<0.1	NA	<0.1	<0.1	<0.1	<0.1	0.2	NA	1.3	0.7	<0.1
	>C10-C12#	TM5/PM16	mg/kg	<0.2	24,000	<0.2	<0.2	NA	<0.2	NA	<0.2	<0.2	<0.2	<0.2	NA	NA	<0.2	<0.2	NA	NA	<0.2	NA	NA	<0.2	0.7	NA	<0.2	<0.2	<0.2	<0.2	<0.2	NA	<0.2	<0.2	<0.2
	>C12-C16#	TM5/PM16	mg/kg	<4	83,000	<4	10	NA	<4	NA	<4	<4	<4	<4	NA	NA	8	<4	NA	NA	<4	NA	NA	<4	18	NA	<4	<4	<4	<4	<4	NA	<4	16	<4
	>C16-C21#	TM5/PM16	mg/kg	<7	1,000,000	23	<7	NA	<7	NA	<7	<7	<7	<7	NA	NA	19	<7	NA	NA	10	NA	NA	<7	25	NA	19	<7	<7	<7	<7	NA	<7	17	<7
	>C21-C35#	TM5/PM16	mg/kg	<7	1,000,000	82	<7	NA	<7	NA	31	<7	36	20	NA	NA	42	<7	NA	NA	34	NA	NA	57	23	NA	224	<7	<7	<7	<7	NA	<7	23	<7
	>C35-C44				1,000,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Total aliphatics C5-44					NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Aromatics																																		
	>C5-EC7	TM36/PM12	mg/kg	<0.1	50	<0.1	<0.1	NA	<0.1	NA	<0.1	<0.1	<0.1	<0.1	NA	NA	<0.1	<0.1	NA	NA	<0.1	NA	NA	<0.1	<0.1	NA	<0.1	<0.1	<0.1	<0.1	<0.1	NA	<0.1	<0.1	<0.1
	>EC7-EC8	TM36/PM12	mg/kg	<0.1	110,000	<0.1	<0.1	NA	<0.1	NA	<0.1	<0.1	<0.1	<0.1	NA	NA	<0.1	<0.1	NA	NA	<0.1	NA	NA	<0.1	<0.1	NA	<0.1	<0.1	<0.1	<0.1	<0.1	NA	<0.1	<0.1	<0.1
	>EC8-EC10#	TM36/PM12	mg/kg	<0.1	8,600	<0.1	<0.1	NA	<0.1	NA	0.1	0.1	<0.1	<0.1	NA	NA	<0.1	<0.1	NA	NA	<0.1	NA	NA	<0.1	<0.1	NA	<0.1	<0.1	<0.1	<0.1	<0.1	NA	0.2	0.1	<0.1
	>EC10-EC12#	TM5/PM16	mg/kg	<0.2	29,000	<0.2	<0.2	NA	<0.2	NA	<0.2	<0.2	<0.2	<0.2	NA	NA	3.4	<0.2	NA	NA	<0.2	NA	NA	<0.2	<0.2	NA	<0.2	<0.2	<0.2	0.9	<0.2	NA	0.9	12.2	<0.2
	>EC12-EC16#	TM5/PM16	mg/kg	<4	37,000	6	55	NA	<4	NA	<4	<4	<4	<4	NA	NA	46	8	NA	NA	<4	NA	NA	<4	<4	NA	<4	<4	<4	9	<4	NA	60	213	17
	>EC16-EC21#	TM5/PM16	mg/kg	<7	28,000	49	120	NA	<7	NA	<7	<7	<7	18	NA	NA	353	32	NA	NA	32	NA	NA	13	<7	NA	60	<7	<7	53	<7	NA	116	554	21
	>EC21-EC35#	TM5/PM16	mg/kg	<7	28,000	303	33	NA	<7	NA	32	<7	<7	147	NA	NA	944	45	NA	NA	168	NA	NA	82	<7	NA	837	59	<7	190	<7	NA	92	806	<7
	EPH (C8-C40)#	TM5/PM8	mg/kg	<30		521	236	<30	<30	<30	379	<30	147	255	<30	<30	2517	118	259	<30	582	<30	NA	570	86	3922	4325	182	<30	751	<30	NA	1222	3231	48
	Mineral Oil (C8-C40)	TM5/PM16	mg/kg	<30		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	TPH CWG																																		
	Aliphatics																																		
	Total aliphatics C5-35	TM5/TM36/PM12/PM16	mg/kg	<19		105	<19	NA	<19	NA	32	<19	36	20	NA	NA	69	<19	NA	NA	44	NA	NA	57	67	NA	243	<19	<19	<19	<19	NA	<19	57	<19
	Total aliphatics C5-C12	TM5/TM36/PM12/PM16	mg/kg	<0.5		<0.5					0.5	0.6	<0.5	<0.5	NA	NA							NA	<0.5	0.7	NA	<0.5	<0.5	<0.5	<0.5	<0.5	NA	1.3	0.7	<0.5
	Total aliphatics >C12-C35#	TM5/TM36/PM12/PM16	mg/kg	<18		105					31	<18	36	20	NA	NA							NA	57	66	NA	243	<18	<18	<18	<18	NA	<18	56	<18
	Aromatics																																		
	Total aromatics C5-35	TM5/TM36/PM12/PM16	mg/kg	<19		358	208	NA	<19	NA	32	<19	<19	165	NA	NA	1346	85	NA	NA	200	NA	NA	95	<19	NA	897	59	<19	253	<19	NA	269	1585	38
	Total aromatics C5-C12	TM5/TM36/PM12/PM16	mg/kg	<0.5		<0.5					<0.5	<0.5	<0.5	<0.5	NA	NA							NA	<0.5	<0.5	NA	<0.5	<0.5	<0.5	0.9	<0.5	NA	1.1	12.3	<0.5
	Total aromatics >EC12-EC35#	TM5/TM36/PM12/PM16	mg/kg	<18		358					32	<18	<18	165	NA	NA							NA	95	<18	NA	897	59	<18	252	<18	NA	268	1573	38
	Total aliphatics and aromatics(C5-35)	TM5/TM36/PM12/PM16	mg/kg	<38		463	208	NA	<38	NA	64	<38	<38	185	NA	NA	1415	85	NA	NA	244	NA	NA	152	67	NA	1140	59	<38	253	<38	NA	269	1642	38
1634-04-4	Methyl Tertiary Butyl Ether#	TM15/PM10	mg/kg	<0.002		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	NA	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	NA	<0.002	<0.002	<0.002
71-43-2	Benzene#	TM15/PM10	mg/kg	<0.003	50.00	0.006	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.003	<0.003	0.042	0.01	0.007	0.011	<0.003	0.008	0.005	NA	<0.003	<0.003	<0.003	<0.003	0.005	<0.003	0.004	<0.003	NA	0.007	0.013	<0.003
108-88-3	Toluene#	TM15/PM10	mg/kg	<0.003	1,920	0.009	<0.003	<0.003	<0.003	<0.003	0.004	0.005	<0.003	<0.003	<0.003	0.023	0.006	0.006	0.007	<0.003	0.009	<0.003	NA	<0.003	<0.003	<0.003	<0.003	0.008	<0.003	0.006	0.006	NA	0.008	0.01	<0.003
100-41-4	Ethylbenzene#	TM15/PM10	mg/kg	<0.003	1,220	<0.003	0.006	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.006	0.003	0.006	0.005	<0.003	<0.003	<0.003	NA	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	NA	0.009	0.01	<0.003
	p/m-Xylene#	TM15/PM10	mg/kg	<0.006	733	0.008	<0.006	<0.006	<0.006	<0.006	<0.006	0.012	<0.006	<0.006	<0.006	0.017	<0.006	0.008	<0.006	<0.006	<0.006	<0.006	NA	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	0.009	NA	0.009	0.064	<0.006
95-47-6	o-Xylene#	TM15/PM10	mg/kg	<0.003	1,120	0.006	<0.003	<0.003	<0.003	<0.003	<0.003	0.005	<0.003	<0.003	<0.003	0.006	<0.003	0.004	<0.003	<0.003	<0.003	<0.003	NA	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.005	NA	0.006	0.037	<0.003
2037-26-5	Surrogate Recovery Toluene D8	TM15/PM10	%	<0		100	103	110	110	99	99	86	96	93	81	68	89	91	82	79	79	89	NA	106	108	89	94	101	109	117	87	NA	115	90	110
108-46-3	Resorcinol	TM26/PM21	mg/kg	<0.01		<0.01	<0.10	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NA	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NA	<0.01	<0.10	<0.01
120-80-9	Catechol	TM26/PM21	mg/kg	<0.01		<0.01	<0.10	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NA	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	0.04	<0.01	NA	<0.01	<0.10	<0.01
	m/p-cresol#	TM26/PM21	mg/kg	<0.02		<0.02	<0.20	<0.02	<0.02	<0.02	0.06	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	NA	<0.02	<0.02	<0.02	<0.02	<0.02	0.03	0.03	<0.02	NA	<0.02	<0.20	<0.02
95-48-7	o-cresol#	TM26/PM21	mg/kg	<0.01		<0.01	<0.10	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NA	<0.01	<0.01	0.02	0.02	<0.01	<0.01	<0.01	<0.01	NA	<0.01	<0.10	<0.01
	Total cresols#	TM26/PM21	mg/kg	<0.03		<0.03	<0.30	<0.03	<0.03	<0.03	0.06	<0.03	<0.03	0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	NA	<0.03	<0.03	<0.03	<0.03	<0.03	0.03	0.03	<0.03	NA	<0.03	<0.30	<0.03
	Xylenols#	TM26/PM21	mg/kg	<0.06		<0.06	<0.60	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	NA	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	NA	<0.06	<0.60	<0.06
90-15-3	1-naphthol	TM26/PM21	mg/kg	<0.01		<0.01	<0.10	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NA	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NA	<0.01	<0.10	<0.01
697-82-5	2,3,5-trimethyl phenol#	TM26/PM21	mg/kg	<0.01		<0.01	<0.10	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NA	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NA	<0.01	<0.10	<0.01
88-69-7	2-isopropylphenol#	TM26/PM21	mg/kg	<0.01		<0.01	<0.10	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NA	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NA	<0.01	<0.10	<0.01
	Total Speciated Phenols HPLC	TM26/PM21	mg/kg	<0.15		<0.15	<1.50	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	NA	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	NA	<0.15	<1.50	<0.15
108-95-2	Phenol#	TM26/PM21	mg/kg	<0.01	1200	<0.01	<0.10	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NA	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	NA	<0.01	<0.10	<0.01
	ANC at pH4	TM77/PM0	mol/kg	<0.03										NA	NA	NA																			
	ANC at pH7	TM77/PM0	mol/kg	<0.03										NA	NA	NA																			
	Asbestos Screen#	TM65/PM42	None			Amosite	NA	NA	NA	NA	Chrysotile	NA	NA	Chrysotile	NA	NA	Chrysotile	0	Chrysotile	NA	Chrysotile	NA	0	NA	NA	Chrysotile	NA	NA	0	Chrysotile	NA	0	Chrysotile	NA	NA
	Asbestos Screen (2)#	TM65/PM42	None			Crocidolite	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	NA	NA	NA	NA	NA	NA
	Asbestos Screen (3)#	TM65/PM42	None			Soil/Brick/Fibre Bundle																				NA	NA	NA							
	General Description (Bulk Analysis)	TM65/PM42	None			Soil/Brick/Fibre Bundle	NA	NA	NA	NA	Soil/Fibre Bundle	NA	NA	Soil-Loose fibre bundles	NA	NA	Soil/Fibre Bundle	Soil	Soil/Trace Fibres	NA	Soil/Trace Fibres	NA	Soil	NA	NA	Soil/Brick/Fibre Bundle	NA	NA	Soil	Soil/Trace Fibres	NA	Soil	Soil/Fibre Bundle	NA	NA
	General Description (2)	TM65/PM42	None			Soil/Brick/Fibre Bundle	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Soil	NA	NA	NA	NA	Soil	NA	NA	NA	NA	NA	Soil	NA	NA	Soil	NA	NA	NA
	Sample Type	PM13/PM0	None			Sandy Loam	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Sandy Loam	Clay	Sand	Clay	Sand	Clay	NA	Clay	Clay	Clayey Loam	Clayey Silt	Clayey Loam	Clay	Loamy Sand	Clay	NA	Clay	Clay	Clay
	Sample Colour	PM13/PM0	None			Dark Brown	Medium Brown	Medium Brown	Medium Brown	Medium Brown	Medium Brown	Medium Brown	Medium Grey	Medium Brown	Medium Brown	Dark Grey	Dark Brown	Medium Brown	Dark Brown	Medium Brown	Dark Brown	Medium Brown	NA	Medium Brown	Medium Brown	Dark Brown	Dark Brown	Dark Brown	Medium Brown	Medium Brown	Medium Brown	NA	Medium Brown	Medium Brown	Medium Brown
	Other Items	PM13/PM0	None			Stones, Roots	none	none	stones and sand	none	stones and sand	none	none	stones	none	stones	stones	none	stones and leafage	none	stones and clinkers	none	NA	stones	none	Stones, Roots, Sand	Stones	Stones, Sand	none	stones	none	NA	stones	none	none
						Chrysotile																				NA	NA	NA							

[redacted]

1.676923077

COMMERCIAL / INDUSTRIAL V11 HH 2 0% SOM

MG - G = Granular Made Ground
MG - C = Cohesive Made Ground
MG - M = Matrix Made Ground
GT = Glacial Till
/Y / SAND / SILT = potential alluvium
MST = Mudstone
SiSt = siltstone
SST = Sandstone
Inc.' = gravel includes

Report: **Solid**
JE Job No:
Client: WYG
Client ref: A74754-28
Location: BRADFORD ROAD MANCHESTER
Contact Jonathan Boyes

					Sample ID		13/727 BH101 0.5	13/685 RBH101	13/888 RBH102	13/685 b2 HP101	13/685 b2 HP102	13/685 b2 HP103	13/685 TP101	13/727 TP102 0.2	13/727 TP102 0.4	13/727 TP103A 0.3	13/685 TP104	13/685 TP104	13/685 TP105	13/685 TP105
					Depth	**TSV Source**	0.5	0.4	0.20	0.3	0.2	0.3 (recorded	0.3	0.2	0.4	0.3	0.2	0.6	0.4	0.6
					Strata Type	SGV	MG - G	MG - G	MG - C	MG - G	MG - G	MG - G	MG - G	MG - G	MG - G	MG - G	MG - C	MG - G	MG - G	MG - G
					Notes	C4EH / LQM SSV	HP only, Inc C	Inc. clinker		Inc. clinker	Inc. clinker	Inc. clinker			HC odour & sheen			Inc. clinker	Strong HC odour and shin	
					Containers	J SSV, CLEA 1.06	V J T	V J T	V J T	V J T	V J T	V J T	T	V J	J T	V J T	V J T	V J T	T	V J T
					Sampled Date	SGV / CLEA 1.06	11/01/2013	09/01/2013	15/01/2013	14/01/2013	14/01/2013	14/01/2013	10/01/2013	11/01/2013	11/01/2013	11/01/2013	10/01/2013	10/01/2013	10/01/2013	10/01/2013
					Sample Received Date		12/01/2013	11/01/2013	17/01/2013	16/01/2013	16/01/2013	16/01/2013	11/01/2013	12/01/2013	12/01/2013	12/01/2013	11/01/2013	11/01/2013	11/01/2013	11/01/2013
					J E Sample No		5-8	1-3	35-37	47-49	52-55	59-62	25	1-2	3-4	9-11	16-18	19-21	7	8-11
					Batch Number		1	1	1	2	2	2	1	1	1	1	1	1	1	1
					Water strike															
CAS Number	**Test**	**Method**	**Units**	**LOD**	**TSV**															
	Moisture Content 105C (% Dry Weight)	NONE/PM4	%	<0.1			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dry Matter Content Ratio 105°C	NONE/PM4	%	<0.1			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Natural Moisture Content	PM4/PM0	%	<0.1			NDP	NDP	NDP	NDP	NDP	NDP	NA	NDP	12.9	9.4	26	NDP	NA	NDP
	Stone Content >= 10mm	PM4/PM0	%	<0.1			NDP	NDP	NDP	NDP	NDP	NDP	NA	NDP	61.1	86.2	0.5	NDP	NA	NDP
	Free Cyanide	TM89/PM45	mg/kg	<0.5	36		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA	<0.5	<0.5	<0.5	<0.5	<0.5	NA	<0.5
	Total Cyanide #	TM89/PM45	mg/kg	<0.5	36		0.6	<0.5	1.1	33.2	17	7.3	NA	0.7	<0.5	0.7	<0.5	<0.5	NA	0.9
	Complex Cyanide	TM89/PM45	mg/kg	<0.5	36		0.6	<0.5	1.1	33.2	17	7.3	NA	0.7	<0.5	0.7	<0.5	<0.5	NA	0.9
	TSV = acute effects infant dose (3g soil)																			
	Sulphate as SO4 (2:1 Ext) #	TM38/PM20	g/l	<0.0015			NA	NA	NA	NA	NA	NA	NA	NA	0.0142	0.0314	0.0074	NA	NA	NA
302-04-5	Thiocyanate	TM107/PM45	mg/kg	<0.6			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	NA	<0.6	<0.6	<0.6	<0.6	<0.6	NA	2.9
	Elemental Sulphur	TM108/PM8	mg/kg	<1			<1	<1	1	119	5	10	NA	<1	<1	3	<1	29	NA	78
	Loss on Ignition #	TM22/PM0	%	<1.0			NDP	NDP	NDP	NDP	NDP	NDP	NA	NDP	3.5	4.5	5.4	NDP	NA	NDP
	Total Organic Carbon #	TM21/PM24	%	<0.2			NA	NDP	NA	NA	NA	NA	NA	NDP	NA	NA	NA	NA	NA	NA
	pH #	TM73/PM11	pH units	<0.01	9		8.77	8.62	8	8.1	8.15	9.75	NA	8.46	8.44	8.79	7.76	9.96	NA	9.99
	Ammoniacal Nitrogen as NH4	TM38/PM20	mg/kg	<0.6			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	NA	<0.6	<0.6	<0.6	<0.6	1.6	NA	1.3
16887-00-6	Chloride	TM38/PM20	mg/kg	<2			NA	NA	NA	NA	NA	NA	NA	NA	30	32	14	NA	NA	NA
16887-00-6	Chloride #	TM38/PM60	mg/kg	<2			10	9	5	<2	<2	35	NA	6	NA	NA	NA	84	NA	61
	Sulphate as SO4 (2:1 Ext) #	TM38/PM60	g/l	<0.0015			0.018	0.1073	0.0169	0.0082	0.026	0.1042	NA	0.0078	NA	NA	NA	0.0544	NA	0.0396
		TM30/PM62																		
	Metals																			
7440-38-2	Arsenic #	TM30/PM15	mg/kg	<0.5	640		55.2	8.9	12.2	62.1	17.3	162	NA	9.4	4.4	7.9	9.5	20.4	NA	41.3
7440-43-9	Cadmium #	TM30/PM15	mg/kg	<0.1	230		0.2	0.2	0.7	0.1	0.1	<0.1	NA	0.5	0.7	0.4	<0.1	<0.1	NA	0.7
7440-47-3	Chromium #	TM30/PM15	mg/kg	<0.5	30,400		26.3	13	20.3	18.2	13.7	11	NA	12.9	6.9	15.7	35.2	9.1	NA	13.7
	Hexavalent Chromium				35								NA		NA	NA	NA		NA	
7440-50-8	Copper #	TM30/PM15	mg/kg	<1	71700		94	27	100	216	97	57	NA	28	26	43	29	36	NA	62
	Iron												NA		NA	NA	NA		NA	
7439-92-1	Lead #	TM30/PM15	mg/kg	<5	4640		313	69	160	1317	244	192	NA	97	46	78	18	14	NA	77
7439-97-6	Mercury #	TM30/PM15	mg/kg	<0.1	45		0.2	<0.1	0.2	0.1	<0.1	<0.1	NA	0.2	0.2	0.2	<0.1	<0.1	NA	<0.1
7440-02-0	Nickel #	TM30/PM15	mg/kg	<0.7	1800		56.2	17.1	27.3	51.4	51.1	51.8	NA	17.5	7.6	17	52.7	32	NA	37.4
7782-49-2	Selenium #	TM30/PM15	mg/kg	<1	13000		<1	<1	1	2	1	2	NA	<1	<3	<1	1	2	NA	<1
	Vanadium				3160								NA		NA	NA	NA		NA	
7440-42-8	Water Soluble Boron #	TM74/PM32	mg/kg	<0.1	192000		1.3	0.7	0.9	0.2	0.8	1	NA	0.2	0.4	0.5	1.4	0.8	NA	1
7440-66-6	Zinc #	TM30/PM15	mg/kg	<5	665000		151	67	170	137	79	155	NA	112	66	137	112	28	NA	73
	PAH MS																			
83-32-9	Acenaphthene #	TM4/PM8	mg/kg	<0.05	98000		<0.25	0.1	0.18	9.18	0.08	0.09	NA	<0.50	<0.50	<0.05	<0.05	0.59	NA	20.44
208-96-8	Acenaphthylene	TM4/PM8	mg/kg	<0.03	97000		1.05	<0.03	0.09	2.39	0.13	0.59	NA	<0.30	0.45	0.08	<0.03	0.26	NA	3.94
120-12-7	Anthracene #	TM4/PM8	mg/kg	<0.04	540,000		0.75	0.2	0.33	21.74	0.22	0.75	NA	0.97	0.85	0.09	<0.04	2.21	NA	13.68
56-55-3	Benzo(a)anthracene #	TM4/PM8	mg/kg	<0.06	95		1.89	0.4	1.21	26.47	0.62	2.07	NA	1.72	1.7	0.2	<0.06	5.75	NA	5.28
50-32-8	Benzo(a)pyrene #	TM4/PM8	mg/kg	<0.04	14		1.83	0.4	1.34	35.2	0.84	2.66	NA	2.72	2.43	0.24	<0.04	11.34	NA	4.94
205-99-2	Benzo(b)fluoranthene	TM4/PM8	mg/kg	<0.05	100		2.46	0.49	1.67	42.29	1.11	3.69	NA	2.89	2.88	0.4	<0.05	11.2	NA	5.41
191-24-2	Benzo(ghi)perylene #	TM4/PM8	mg/kg	<0.04	660		1.43	0.21	0.94	22.45	0.57	1.82	NA	1.55	1.63	0.2	<0.04	7.95	NA	3.01
207-08-9	Benzo(k)fluoranthene	TM4/PM8	mg/kg	<0.02	140		0.96	0.19	0.65	16.45	0.43	1.44	NA	1.13	1.12	0.15	<0.02	4.36	NA	2.1
218-01-9	Chrysene #	TM4/PM8	mg/kg	<0.02	140		1.48	0.38	1.45	31.67	0.76	2.51	NA	1.89	2.09	0.22	<0.02	5.77	NA	4.4
53-70-3	Dibenz(ah)anthracene #	TM4/PM8	mg/kg	<0.04	13		0.37	0.04	0.14	4.58	0.13	0.51	NA	<0.40	<0.40	0.05	<0.04	2.1	NA	0.42
206-44-0	Fluoranthene #	TM4/PM8	mg/kg	<0.03	23000		3.35	1.05	2.3	90.47	1.47	5.01	NA	3.51	2.63	0.44	<0.03	8.54	NA	21.58
86-73-7	Fluorene #	TM4/PM8	mg/kg	<0.04	69000		0.22	0.08	0.11	7.3	0.06	0.12	NA	<0.40	<0.40	<0.04	<0.04	0.59	NA	17.94
193-39-5	Indeno(123cd)pyrene #	TM4/PM8	mg/kg	<0.04	61		1.37	0.22	0.97	22.21	0.65	2.15	NA	1.78	1.8	0.22	<0.04	8.56	NA	3.38
91-20-3	Naphthalene #	TM4/PM8	mg/kg	<0.04	480		0.46	0.04	0.08	6.74	0.06	0.27	NA	<0.40	<0.40	0.1	<0.04	0.68	NA	1.46
85-01-8	Phenanthrene #	TM4/PM8	mg/kg	<0.03	22000		1.85	0.83	1.26	73.91	0.62	2.33	NA	1.78	1.42	0.24	<0.03	5.57	NA	36.27
129-00-0	Pyrene #	TM4/PM8	mg/kg	<0.03	54000		2.78	0.83	2.32	81.9	1.18	3.73	NA	3.86	3.05	0.35	<0.03	7.7	NA	15.85
	PAH 16 Total	TM4/PM8	mg/kg	<0.6			22.3	5.5	15	495	8.9	29.7	NA	23.8	22.1	3	<0.6	83.2	NA	160.1
	PAH Surrogate % Recovery	TM4/PM8	%	<0			96	89	100	105	100	98	NA	92	88	102	93	104	NA	97
	Benzo(bk)fluoranthene #	TM4/PM8	mg/kg	<0.07			3.42	0.68	2.32	58.74	1.54	5.13	NA	4.02	4	0.55	<0.07	15.56	NA	7.51
191-07-1	Coronene	TM4/PM8	mg/kg	<0.04					NA											
	PAH 17 Total	TM4/PM8	mg/kg	<0.64					NA											
	TPH CWG																			
	Aliphatics																			
	>C5-C6 #	TM36/PM12	mg/kg	<0.1	6,200		<0.1	<0.1	<0.1	<0.1	NA	<0.1	NA	NA	<0.1	<0.1	<0.1	<0.1	NA	<0.1
	>C6-C8 #	TM36/PM12	mg/kg	<0.1	18,000		<0.1	0.1	<0.1	<0.1	NA	<0.1	NA	NA	<0.1	<0.1	<0.1	<0.1	NA	<0.1
	>C8-C10	TM36/PM12	mg/kg	<0.1	5,100		<0.1	0.4	<0.1	<0.1	NA	<0.1	NA	NA	<0.1	<0.1	<0.1	<0.1	NA	1.3
	>C10-C12 #	TM5/PM16	mg/kg	<0.2	24,000		<0.2	<0.2	<0.2	<0.2	NA	<0.2	NA	NA	<0.2	<0.2	<0.2	<0.2	NA	<0.2
	>C12-C16 #	TM5/PM16	mg/kg	<4	83,000		<4	<4	<4	8	NA	<4	NA	NA	<4	<4	<4	<4	NA	<4
	>C16-C21 #	TM5/PM16	mg/kg	<7	1,000,000		23	<7	<7	19	NA	10	NA	NA	19	<7	<7	<7	NA	<7
	>C21-C35 #	TM5/PM16	mg/kg	<7	1,000,000		82	31	20	42	NA	34	NA	NA	224	<7	<7	<7	NA	<7
	>C35-C44				1,000,000		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Total aliphatics C5-44						NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Aromatics																			
	>C5-EC7	TM36/PM12	mg/kg	<0.1	50		<0.1	<0.1	<0.1	<0.1	NA	<0.1	NA	NA	<0.1	<0.1	<0.1	<0.1	NA	<0.1
	>EC7-EC8	TM36/PM12	mg/kg	<0.1	110,000		<0.1	<0.1	<0.1	<0.1	NA	<0.1	NA	NA	<0.1	<0.1	<0.1	<0.1	NA	<0.1
	>EC8-EC10 #	TM36/PM12	mg/kg	<0.1	8,600		<0.1	0.1	<0.1	<0.1	NA	<0.1	NA	NA	<0.1	<0.1	<0.1	<0.1	NA	0.2
	>EC10-EC12 #	TM5/PM16	mg/kg	<0.2	29,000		<0.2	<0.2	<0.2	3.4	NA	<0.2	NA	NA	<0.2	<0.2	<0.2	0.9	NA	0.9
	>EC12-EC16 #	TM5/PM16	mg/kg	<4	37,000		6	<4	<4	46	NA	<4	NA	NA	<4	<4	<4	9	NA	60
	>EC16-EC21 #	TM5/PM16	mg/kg	<7	28,000		49	<7	18	353	NA	32	NA	NA	60	<7	<7	53	NA	116
	>EC21-EC35 #	TM5/PM16	mg/kg	<7	28,000		303	32	147	944	NA	168	NA	NA	837	59	<7	190	NA	92
	EPH (C8-C40) #	TM5/PM8	mg/kg	<30			521	379	255	2517	259	582	NA	3922	4325	182	<30	751	NA	1222
	Mineral Oil (C8-C40)	TM5/PM16	mg/kg	<30			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	TPH CWG																			
	Aliphatics																			
	Total aliphatics C5-35	TM5/TM36/PM12/PM16	mg/kg	<19			105	32	20	69	NA	44	NA	NA	243	<19	<19	<19	NA	<19
	Total aliphatics C5-C12	TM5/TM36/PM12/PM16	mg/kg	<0.5			<0.5	0.5	<0.5				NA	NA	<0.5	<0.5	<0.5	<0.5	NA	1.3
	Total aliphatics >C12-C35 #	TM5/TM36/PM12/PM16	mg/kg	<18			105	31	20				NA	NA	243	<18	<18	<18	NA	<18
	Aromatics																			
	Total aromatics C5-35	TM5/TM36/PM12/PM16	mg/kg	<19			358	32	165	1346	NA	200	NA	NA	897	59	<19	253	NA	269
	Total aromatics C5-C12	TM5/TM36/PM12/PM16	mg/kg	<0.5			<0.5	<0.5	<0.5				NA	NA	<0.5	<0.5	<0.5	0.9	NA	1.1
	Total aromatics >EC12-EC35 #	TM5/TM36/PM12/PM16	mg/kg	<18			358	32	165				NA	NA	897	59	<18	252	NA	268
	Total aliphatics and aromatics(C5-35)	TM5/TM36/PM12/PM16	mg/kg	<38			463	64	185	1415	NA	244	NA	NA	1140	59	<38	253	NA	269
1634-04-4	Methyl Tertiary Butyl Ether #	TM15/PM10	mg/kg	<0.002			<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	NA	<0.002	<0.002	<0.002	<0.002	<0.002	NA	<0.002
71-43-2	Benzene #	TM15/PM10	mg/kg	<0.003	50.00		0.006	<0.003	0.003	0.01	0.011	0.008	NA	<0.003	<0.003	0.005	<0.003	0.004	NA	0.007
108-88-3	Toluene #	TM15/PM10	mg/kg	<0.003	1,920		0.009	0.004	<0.003	0.006	0.007	0.009	NA	<0.003	<0.003	0.008	<0.003	0.006	NA	0.008
100-41-4	Ethylbenzene #	TM15/PM10	mg/kg	<0.003	1,220		<0.003	<0.003	<0.003	0.003	0.005	<0.003	NA	<0.003	<0.003	<0.003	<0.003	<0.003	NA	0.009
	p/m-Xylene #	TM15/PM10	mg/kg	<0.006	733		0.008	<0.006	<0.006	<0.006	<0.006	<0.006	NA	<0.006	<0.006	<0.006	<0.006	<0.006	NA	0.009
95-47-6	o-Xylene #	TM15/PM10	mg/kg	<0.003	1,120		0.006	<0.003	<0.003	<0.003	<0.003	<0.003	NA	<0.003	<0.003	<0.003	<0.003	<0.003	NA	0.006
2037-26-5	Surrogate Recovery Toluene D8	TM15/PM10	%	<0			100	99	93	89	82	79	NA	89	94	101	109	117	NA	115
108-46-3	Resorcinol	TM26/PM21	mg/kg	<0.01			<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NA	<0.01	<0.01	<0.01	<0.01	<0.01	NA	<0.01
120-80-9	Catechol	TM26/PM21	mg/kg	<0.01			<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NA	<0.01	<0.01	<0.01	<0.01	0.04	NA	<0.01
	m/p-cresol #	TM26/PM21	mg/kg	<0.02			<0.02	0.06	<0.02	<0.02	<0.02	<0.02	NA	<0.02	<0.02	<0.02	0.03	0.03	NA	<0.02
95-48-7	o-cresol #	TM26/PM21	mg/kg	<0.01			<0.01	<0.01	0.03	<0.01	<0.01	<0.01	NA	0.02	0.02	<0.01	<0.01	<0.01	NA	<0.01
	Total cresols #	TM26/PM21	mg/kg	<0.03			<0.03	0.06	0.03	<0.03	<0.03	<0.03	NA	<0.03	<0.03	<0.03	0.03	0.03	NA	<0.03
	Xylenols #	TM26/PM21	mg/kg	<0.06			<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	NA	<0.06	<0.06	<0.06	<0.06	<0.06	NA	<0.06
90-15-3	1-naphthol	TM26/PM21	mg/kg	<0.01			<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NA	<0.01	<0.01	<0.01	<0.01	<0.01	NA	<0.01
697-82-5	2,3,5-trimethyl phenol #	TM26/PM21	mg/kg	<0.01			<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NA	<0.01	<0.01	<0.01	<0.01	<0.01	NA	<0.01
88-69-7	2-isopropylphenol #	TM26/PM21	mg/kg	<0.01			<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NA	<0.01	<0.01	<0.01	<0.01	<0.01	NA	<0.01
	Total Speciated Phenols HPLC	TM26/PM21	mg/kg	<0.15			<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	NA	<0.15	<0.15	<0.15	<0.15	<0.15	NA	<0.15
108-95-2	Phenol #	TM26/PM21	mg/kg	<0.01	1200		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NA	<0.01	<0.01	<0.01	<0.01	0.03	NA	<0.01
	ANC at pH4	TM77/PM0	mol/kg	<0.03						NA										
	ANC at pH7	TM77/PM0	mol/kg	<0.03						NA										
	Asbestos Screen #	TM65/PM42	None				Amosite	Chrysotile	Chrysotile	Chrysotile	Chrysotile	Chrysotile	0	Chrysotile	NA	NA	0	Chrysotile	0	Chrysotile
	Asbestos Screen (2) #	TM65/PM42	None				Crocidolite	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	NA	NA	NA
	Asbestos Screen (3) #	TM65/PM42	None				Chrysotile							NA	NA	NA				
	General Description (Bulk Analysis)	TM65/PM42	None				Soil/Mix/Fibre Bundle	Soil/Fibre Bundle	Soil/Loose fibre bundles	Soil/Fibre Bundle	Soil/Trace Fibres	Soil/Trace Fibres	Soil	Soil/Mix/Fibre Bundle	NA	NA	Soil	Soil/Trace Fibres	Soil	Soil/Fibre Bundle
	General Description (2)	TM65/PM42	None				Soil/Mix/Fibre Bundle	NA	NA	NA	NA	NA	Soil	NA	NA	NA	Soil	NA	Soil	NA
	Sample Type	PM13/PM0	None				Sandy Loam	Clay	Clay	Sandy Loam	Sand	Sand	NA	Clayey Loam	Clayey Silt	Clayey Loam	Clay	Loamy Sand	NA	Clay
	Sample Colour	PM13/PM0	None				Dark Brown	Medium Brown	Medium Brown	Dark Brown	Dark Brown	Dark Brown	NA	Dark Brown	Dark Brown	Dark Brown	Medium Brown	Medium Brown	NA	Medium Brown
	Other Items	PM13/PM0	None				Stones, Roots	stones and sand	stones	stones	stones and leafage	stones and clinkers	NA	Stones, Roots, Sand	Stones	Stones, Sand	none	stones	NA	stones
														NA	NA	NA				

[redacted]

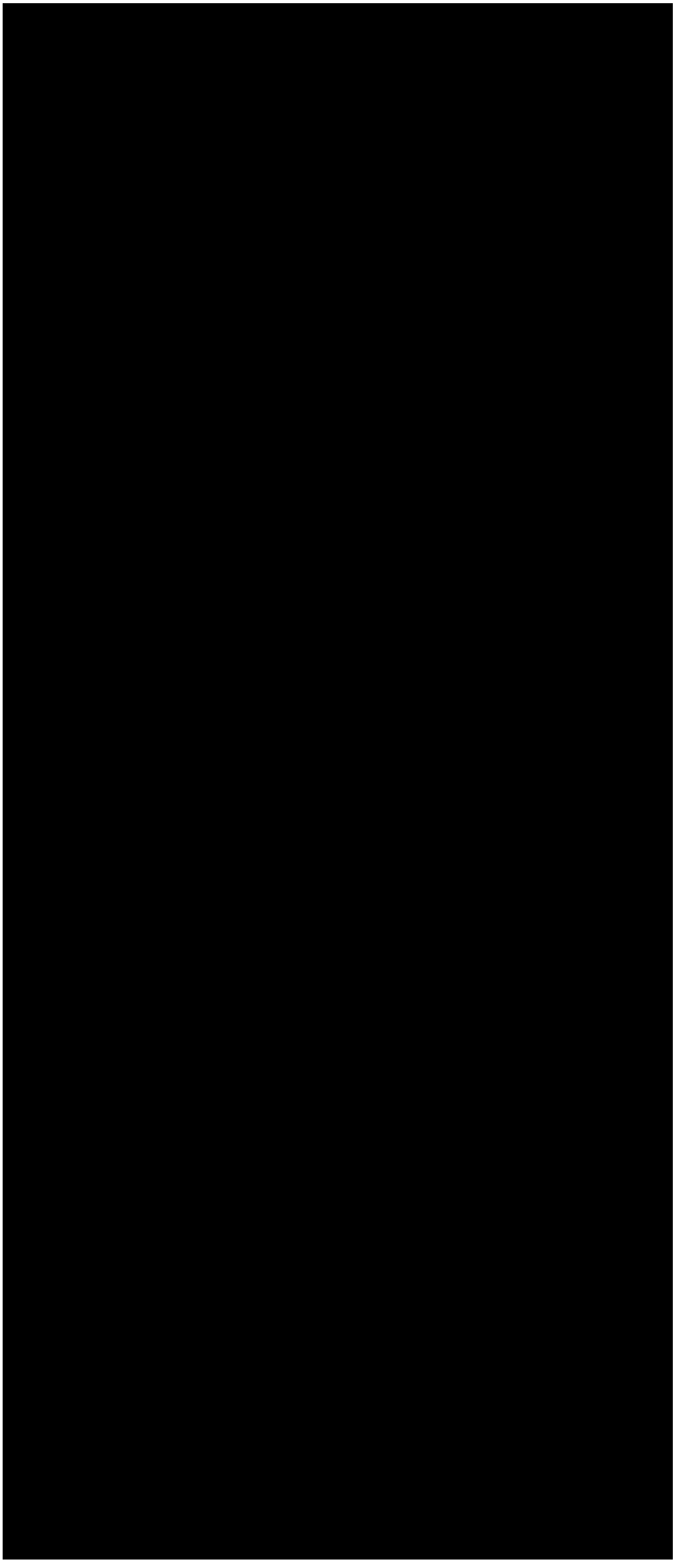
8.6 2.866666667
3
37

COMMERCIAL / INDUSTRIAL V11 HH 2-5% SOM

MG - G = Granular Made Ground
MG - C = Cohesive Made Ground
MG - M = Matrix Made Ground
GT = Glacial Till
WYG
AY = SAND / SILT = potential alluvium
MST = Mudstone
SiSt = siltstone
SST = Sandstone
Inc.' = gravel includes

Report: **Solid**
JE Job No:
Client:
Client ref: A74754-28
Location: BRADFORD ROAD MANCHESTER
Contact Jonathan Boyes

					Sample ID		13/685 b2 BH102	13/685 b2 BH102	13/685 b2 BH102	13/685 b2 BH102	13/685 RBH101	13/685 RBH101	13/888 RBH102	13/1069 RBH102	13/685 b2 HP101	13/685 b2 HP102	13/685 b2 HP103	13/685 TP101	13/685 TP101	13/685 TP104	13/685 TP105	13/685 TP105
					Depth	**TSV Source**	1.3	1.6	2.7	3.5	1.2	18.8	1.00	14.6-14.9	0.9	1.1	1.0	0.4	1.0	0.8	0.8	0.9
					Strata Type	SGV	GT	GT	Sand pocket	GT	GT	MST	GT	SiSt	GT	GT	GT	GT	GT	GT	silty CLAY	GT
					Notes	C4EH / LQM SSV	Drilled though TP105 - Inc. coal			Inc. coal	Inc. coal		Inc. rare coal					Black staining			HC odour & sheen	
					Containers	SSV, CLEA 1.06	V J T	V J T	V J	V J	V J T	V J	V J T	V J T	V J	V J T	V J T	V J T	V J T	V J T	V J	V J
					Sampled Date	SGV / CLEA 1.06	14/01/2013	14/01/2013	14/01/2013	14/01/2013	09/01/2013	10/01/2013	15/01/2013	16/01/2013	14/01/2013	14/01/2013	14/01/2013	10/01/2013	10/01/2013	10/01/2013	10/01/2013	10/01/2013
					Sample Received Date		16/01/2013	16/01/2013	16/01/2013	16/01/2013	11/01/2013	11/01/2013	17/01/2013	23/01/2013	16/01/2013	16/01/2013	16/01/2013	11/01/2013	11/01/2013	11/01/2013	11/01/2013	11/01/2013
					J E Sample No		37-39	40-42	43-44	45-46	4-6	35-36	38-40	1-3	50-51	56-58	63-65	29-31	32-34	22-24	12-13	14-15
					Batch Number		2	2	2	2	1	1	1	1	2	2	2	1	1	1	1	1
					Water strike																	
CAS Number	**Test**	**Method**	**Units**	**LOD**	**TSV**																	
	Moisture Content 105C (% Dry Weight)	NONE/PM4	%	<0.1			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dry Matter Content Ratio 105°C	NONE/PM4	%	<0.1			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Natural Moisture Content	PM4/PM0	%	<0.1			22.8	24.7	21.3	18.7	18.1	12.4	23.8	20.9	18.4	19.5	18.3	12	13.4	18.2	41.7	28.7
	Stone Content >= 10mm	PM4/PM0	%	<0.1			12.2	<0.1	6.2	<0.1	0.1	<0.1	3.1	<0.1	<0.1	<0.1	<0.1	46	<0.1	3.9	<0.1	<0.1
	Free Cyanide	TM89/PM45	mg/kg	<0.5	36		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Total Cyanide #	TM89/PM45	mg/kg	<0.5	36		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.7	<0.5	0.6
	Complex Cyanide	TM89/PM45	mg/kg	<0.5	36		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.7	<0.5	0.6
	TSV = acute effects infant dose (3g soil)																					
	Sulphate as SO4 (2:1 Ext) #	TM38/PM20	g/l	<0.0015			0.0828	0.0417	0.0395	0.0883	0.0696	0.0538	0.106	0.0321	0.0318	0.0573	0.0694	0.0116	0.0167	0.0445	0.0679	0.0091
302-04-5	Thiocyanate	TM107/PM45	mg/kg	<0.6			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	5.4	1.5
	Elemental Sulphur	TM108/PM8	mg/kg	<1			14	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	6	<1	<1	163	4
	Loss on Ignition #	TM22/PM0	%	<1.0			3.5	4.2	17	15.7	4.4	4.9	4.4	13.3	3	3.3	3.8	3.4	3.4	4	13.7	5.5
	Total Organic Carbon #	TM21/PM24	%	<0.2			NA	NA	0.8	NA	1.2	0.7	NA	1.2	NA	NA	1.1	4.7	0.7	1	NA	1
	pH #	TM73/PM11	pH units	<0.01	9		8.32	7.76	9	8.49	8.33	8.2	8.35	8.82	8.79	8.54	8.4	8.24	8.25	8.33	7.6	7.32
	Ammoniacal Nitrogen as NH4	TM38/PM20	mg/kg	<0.6			4.5	<0.6	<0.6	<0.6	<0.6	1.5	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	0.9	5.1	1.3
16887-00-6	Chloride #	TM38/PM20	mg/kg	<2			134	64	97	172	21	20	37	11	12	13	9	11	16	32	82	40
16887-00-6	Chloride #	TM38/PM60	mg/kg	<2			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Sulphate as SO4 (2:1 Ext) #	TM38/PM60	g/l	<0.0015			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		TM30/PM62																				
	Metals	TM30/PM15																				
7440-38-2	Arsenic #	TM30/PM15	mg/kg	<0.5	640		8.7	11.4	6.4	2.7	8.8	20.7	8.7	5.5	8.7	6.5	14.4	11.2	9.5	7.8	27.1	11.2
7440-43-9	Cadmium #	TM30/PM15	mg/kg	<0.1	230		0.3	<0.1	<0.1	0.1	<0.1	0.2	<0.1	0.2	0.1	<0.1	<0.1	0.2	<0.1	<0.1	0.3	0.2
7440-47-3	Chromium #	TM30/PM15	mg/kg	<0.5	30,400		22.5	33.6	17.4	29	33.4	22.9	27.6	17	25.3	27	30.3	13.7	22.5	27.3	32	31
	Hexavalent Chromium				35		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
7440-50-8	Copper #	TM30/PM15	mg/kg	<1	71700		28	24	20	24	16	23	60	34	28	26	25	18	14	14	66	23
	Iron						NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
7439-92-1	Lead #	TM30/PM15	mg/kg	<5	4640		18	10	9	8	8	14	12	19	45	10	11	210	10	11	155	18
7439-97-6	Mercury #	TM30/PM15	mg/kg	<0.1	45		0.3	0.1	<0.1	0.2	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	0.4	<0.1
7440-02-0	Nickel #	TM30/PM15	mg/kg	<0.7	1800		39.2	55.1	24.9	34.9	39.6	51.1	37	31.6	34.5	35.4	38.2	20.1	30	39.2	55.6	61.5
7782-49-2	Selenium #	TM30/PM15	mg/kg	<1	13000		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	2	2
	Vanadium				3160		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
7440-42-8	Water Soluble Boron #	TM74/PM32	mg/kg	<0.1	192000		2.3	2.5	0.8	0.8	1.6	0.8	1.5	1.1	2.1	1.3	1.1	0.5	0.8	1.3	3.5	3.1
7440-66-6	Zinc #	TM30/PM15	mg/kg	<5	665000		79	93	54	64	70	115	70	105	80	65	68	48	55	65	111	113
	PAH MS	TM4/PM8																				
83-32-9	Acenaphthene #	TM4/PM8	mg/kg	<0.05	98000		0.61	0.25	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.21	<0.05	<0.05	0.11	<0.05	<0.05	4.02	0.49
208-96-8	Acenaphthylene	TM4/PM8	mg/kg	<0.03	97000		<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.07	<0.03	<0.03	2.16	<0.03	<0.03	0.79	<0.03
120-12-7	Anthracene #	TM4/PM8	mg/kg	<0.04	540,000		0.44	0.14	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.34	<0.04	0.05	1.3	<0.04	<0.04	3.64	0.18
56-55-3	Benzo(a)anthracene #	TM4/PM8	mg/kg	<0.06	95		0.1	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	0.9	<0.06	0.14	4.57	<0.06	<0.06	3.51	<0.06
50-32-8	Benzo(a)pyrene #	TM4/PM8	mg/kg	<0.04	14		<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	1.1	<0.04	0.12	6.45	<0.04	<0.04	3.09	<0.04
205-99-2	Benzo(b)fluoranthene	TM4/PM8	mg/kg	<0.05	100		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1.26	<0.05	0.16	9.25	<0.05	0.08	3.38	<0.05
191-24-2	Benzo(ghi)perylene #	TM4/PM8	mg/kg	<0.04	660		<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.69	<0.04	0.08	4.29	<0.04	0.06	1.62	<0.04
207-08-9	Benzo(k)fluoranthene	TM4/PM8	mg/kg	<0.02	140		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.49	<0.02	0.06	3.6	<0.02	0.03	1.32	<0.02
218-01-9	Chrysene #	TM4/PM8	mg/kg	<0.02	140		0.07	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	1.11	<0.02	0.12	6.89	<0.02	0.05	3.76	0.03
53-70-3	Dibenz(ah)anthracene #	TM4/PM8	mg/kg	<0.04	13		<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.15	<0.04	<0.04	0.96	<0.04	<0.04	0.41	<0.04
206-44-0	Fluoranthene #	TM4/PM8	mg/kg	<0.03	23000		0.49	0.16	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	2.19	<0.03	0.28	17.18	<0.03	0.07	10.24	0.21
86-73-7	Fluorene #	TM4/PM8	mg/kg	<0.04	69000		0.42	0.12	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.17	<0.04	<0.04	0.34	<0.04	<0.04	3.1	0.13
193-39-5	Indeno(123cd)pyrene #	TM4/PM8	mg/kg	<0.04	61		<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.67	<0.04	0.08	4.96	<0.04	0.06	1.6	<0.04
91-20-3	Naphthalene #	TM4/PM8	mg/kg	<0.04	480		<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.15	<0.04	<0.04	0.41	<0.04	<0.04	1.26	<0.04
85-01-8	Phenanthrene #	TM4/PM8	mg/kg	<0.03	22000		1.07	0.17	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	1.43	<0.03	0.19	10.14	<0.03	0.06	10.78	0.12
129-00-0	Pyrene #	TM4/PM8	mg/kg	<0.03	54000		0.32	0.1	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	2.15	<0.03	0.19	13.1	<0.03	0.06	8.42	0.13
	PAH 16 Total	TM4/PM8	mg/kg	<0.6			3.5	1	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	13.1	<0.6	1.5	85.7	<0.6	<0.6	60.9	1.3
	PAH Surrogate % Recovery	TM4/PM8	%	<0			98	99	100	95	103	99	104	105	103	112	97	97	94	95	79	101
	Benzo(bk)fluoranthene #	TM4/PM8	mg/kg	<0.07			<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	1.75	<0.07	0.22	12.85	<0.07	0.11	4.7	<0.07
191-07-1	Coronene	TM4/PM8	mg/kg	<0.04									NA	NA								
	PAH 17 Total	TM4/PM8	mg/kg	<0.64									NA	NA								
	TPH CWG																					
	Aliphatics																					
	>C5-C6 #	TM36/PM12	mg/kg	<0.1	6,200		<0.1	NA	<0.1	NA	<0.1	<0.1	NA	NA	<0.1	NA	NA	<0.1	<0.1	<0.1	<0.1	<0.1
	>C6-C8 #	TM36/PM12	mg/kg	<0.1	18,000		<0.1	NA	<0.1	NA	0.1	<0.1	NA	NA	<0.1	NA	NA	<0.1	<0.1	0.1	<0.1	<0.1
	>C8-C10	TM36/PM12	mg/kg	<0.1	5,100		0.1	NA	<0.1	NA	0.5	0.1	NA	NA	0.4	NA	NA	<0.1	<0.1	0.2	0.7	<0.1
	>C10-C12 #	TM5/PM16	mg/kg	<0.2	24,000		<0.2	NA	<0.2	NA	<0.2	<0.2	NA	NA	<0.2	NA	NA	<0.2	0.7	<0.2	<0.2	<0.2
	>C12-C16 #	TM5/PM16	mg/kg	<4	83,000		10	NA	<4	NA	<4	<4	NA	NA	<4	NA	NA	<4	18	<4	16	<4
	>C16-C21 #	TM5/PM16	mg/kg	<7	1,000,000		<7	NA	<7	NA	<7	<7	NA	NA	<7	NA	NA	<7	25	<7	17	<7
	>C21-C35 #	TM5/PM16	mg/kg	<7	1,000,000		<7	NA	<7	NA	<7	36	NA	NA	<7	NA	NA	57	23	<7	23	<7
	>C35-C44				1,000,000		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Total aliphatics C5-44						NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Aromatics																					
	>C5-EC7	TM36/PM12	mg/kg	<0.1	50		<0.1	NA	<0.1	NA	<0.1	<0.1	NA	NA	<0.1	NA	NA	<0.1	<0.1	<0.1	<0.1	<0.1
	>EC7-EC8	TM36/PM12	mg/kg	<0.1	110,000		<0.1	NA	<0.1	NA	<0.1	<0.1	NA	NA	<0.1	NA	NA	<0.1	<0.1	<0.1	<0.1	<0.1
	>EC8-EC10 #	TM36/PM12	mg/kg	<0.1	8,600		<0.1	NA	<0.1	NA	0.1	<0.1	NA	NA	<0.1	NA	NA	<0.1	<0.1	<0.1	0.1	<0.1
	>EC10-EC12 #	TM5/PM16	mg/kg	<0.2	29,000		<0.2	NA	<0.2	NA	<0.2	<0.2	NA	NA	<0.2	NA	NA	<0.2	<0.2	<0.2	12.2	<0.2
	>EC12-EC16 #	TM5/PM16	mg/kg	<4	37,000		55	NA	<4	NA	<4	<4	NA	NA	8	NA	NA	<4	<4	<4	213	17
	>EC16-EC21 #	TM5/PM16	mg/kg	<7	28,000		120	NA	<7	NA	<7	<7	NA	NA	32	NA	NA	13	<7	<7	554	21
	>EC21-EC35 #	TM5/PM16	mg/kg	<7	28,000		33	NA	<7	NA	<7	<7	NA	NA	45	NA	NA	82	<7	<7	806	<7
	EPH (C8-C40) #	TM5/PM8	mg/kg	<30			236	<30	<30	<30	<30	147	<30	<30	118	<30	<30	570	86	<30	3231	48
	Mineral Oil (C8-C40)	TM5/PM16	mg/kg	<30			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	TPH CWG																					
	Aliphatics																					
	Total aliphatics C5-35	TM5/TM36/PM12/PM16	mg/kg	<19			<19	NA	<19	NA	<19	36	NA	NA	<19	NA	NA	57	67	<19	57	<19
	Total aliphatics C5-C12	TM5/TM36/PM12/PM16	mg/kg	<0.5							0.6	<0.5	NA	NA				<0.5	0.7	<0.5	0.7	<0.5
	Total aliphatics >C12-C35 #	TM5/TM36/PM12/PM16	mg/kg	<18							<18	36	NA	NA				57	66	<18	56	<18
	Aromatics																					
	Total aromatics C5-35	TM5/TM36/PM12/PM16	mg/kg	<19			208	NA	<19	NA	<19	<19	NA	NA	85	NA	NA	95	<19	<19	1585	38
	Total aromatics C5-C12	TM5/TM36/PM12/PM16	mg/kg	<0.5							<0.5	<0.5	NA	NA				<0.5	<0.5	<0.5	12.3	<0.5
	Total aromatics >EC12-EC35 #	TM5/TM36/PM12/PM16	mg/kg	<18							<18	<18	NA	NA				95	<18	<18	1573	38
	Total aliphatics and aromatics(C5-35)	TM5/TM36/PM12/PM16	mg/kg	<38			208	NA	<38	NA	<38	<38	NA	NA	85	NA	NA	152	67	<38	1642	38
1634-04-4	Methyl Tertiary Butyl Ether #	TM15/PM10	mg/kg	<0.002			<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
71-43-2	Benzene #	TM15/PM10	mg/kg	<0.003	50.00		<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.042	0.007	<0.003	0.005	<0.003	<0.003	<0.003	0.013	<0.003
108-88-3	Toluene #	TM15/PM10	mg/kg	<0.003	1,920		<0.003	<0.003	<0.003	<0.003	0.005	<0.003	<0.003	0.023	0.006	<0.003	<0.003	<0.003	<0.003	0.006	0.01	<0.003
100-41-4	Ethylbenzene #	TM15/PM10	mg/kg	<0.003	1,220		0.006	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.006	0.006	<0.003	<0.003	<0.003	<0.003	<0.003	0.01	<0.003
	p/m-Xylene #	TM15/PM10	mg/kg	<0.006	733		<0.006	<0.006	<0.006	<0.006	0.012	<0.006	<0.006	0.017	0.008	<0.006	<0.006	<0.006	<0.006	0.009	0.064	<0.006
95-47-6	o-Xylene #	TM15/PM10	mg/kg	<0.003	1,120		<0.003	<0.003	<0.003	<0.003	0.005	<0.003	<0.003	0.006	0.004	<0.003	<0.003	<0.003	<0.003	0.005	0.037	<0.003
2037-26-5	Surrogate Recovery Toluene D8	TM15/PM10	%	<0			103	110	110	99	86	96	81	68	91	79	89	106	108	87	90	110
108-46-3	Resorcinol	TM26/PM21	mg/kg	<0.01			<0.10	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.10	<0.01
120-80-9	Catechol	TM26/PM21	mg/kg	<0.01			<0.10	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.10	<0.01
	m/p-cresol #	TM26/PM21	mg/kg	<0.02			<0.20	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.20	<0.02
95-48-7	o-cresol #	TM26/PM21	mg/kg	<0.01			<0.10	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.10	<0.01
	Total cresols #	TM26/PM21	mg/kg	<0.03			<0.30	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.30	<0.03
	Xylenols #	TM26/PM21	mg/kg	<0.06			<0.60	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.60	<0.06
90-15-3	1-naphthol	TM26/PM21	mg/kg	<0.01			<0.10	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.10	<0.01
697-82-5	2,3,5-trimethyl phenol #	TM26/PM21	mg/kg	<0.01			<0.10	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.10	<0.01
88-69-7	2-isopropylphenol #	TM26/PM21	mg/kg	<0.01			<0.10	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.10	<0.01
	Total Speciated Phenols HPLC	TM26/PM21	mg/kg	<0.15			<1.50	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<1.50	<0.15
108-95-2	Phenol #	TM26/PM21	mg/kg	<0.01	1200		<0.10	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.10	<0.01
	ANC at pH4	TM77/PM0	mol/kg	<0.03									NA	NA								
	ANC at pH7	TM77/PM0	mol/kg	<0.03									NA	NA								
	Asbestos Screen #	TM65/PM42	None				NA	NA	NA	NA	NA	NA	NA	NA	0	NA	NA	NA	NA	NA	NA	NA
	Asbestos Screen (2) #	TM65/PM42	None				NA	NA	NA	NA	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA
	Asbestos Screen (3) #	TM65/PM42	None																			
	General Description (Bulk Analysis)	TM65/PM42	None				NA	NA	NA	NA	NA	NA	NA	NA	Soil	NA	NA	NA	NA	NA	NA	NA
	General Description (2)	TM65/PM42	None				NA	NA	NA	NA	NA	NA	NA	NA	Soil	NA	NA	NA	NA	NA	NA	NA
	Sample Type	PM13/PM0	None				Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay
	Sample Colour	PM13/PM0	None				Medium Brown	Medium Brown	Medium Brown	Medium Brown	Medium Brown	Medium Grey	Medium Brown	Dark Grey	Medium Brown	Medium Brown	Medium Brown	Medium Brown	Medium Brown	Medium Brown	Medium Brown	Medium Brown
	Other Items	PM13/PM0	None				none	none	stones and sand	none	none	none	none	stones	none	none	none	stones	none	none	none	none



							1		1		1	1	1	1	1	
							13/727	13/685 b2	13/888	13/685 b2	13/685	13/727	13/727	13/727	13/685	
		MG - G = Granular Made Ground		Sample ID	Source of TSV		BH101 0.5	BH102	RBH102	HP103	TP101	TP102 0.2	TP102 0.4	TP103A 0.3	TP105	
Report:	**CEN 10:1 1 Batch**	MG - C = Cohesive Made Ground		Depth			0.5	1.3	1.00	0.3 (recorded	0.4	0.2	0.4	0.3	0.6	
JE Job No:	13/1069	MG - M = Matrix Made Ground		Strata Type	DWS 2010		MG - G	GT	GT	MG - G	GT	GT	MG - G	MG - G	MG - G	
Client:		GT = Glacial Till		Notes	WFD River / surface water		HP only, Inc clinker	Drilled though TP105 - Inc. coal	Inc. rare coal	Inc. clinker	Black stainig	Black stainig	HC odour & sheen		Strong HC odour and sheen to water	
	WYG															
Client ref:	A74754-28	CLAY / SAND / SILT = potential alluvium		Containers	DWS 1989		V J T	V J T	V J T	V J T	V J T	V J	J T	V J T	V J T	
Location:	BRADFORD ROAD MANCHESTER	MST = Mudstone		Sampled Date	Former EQS		11/01/2013	14/01/2013	15/01/2013	14/01/2013	10/01/2013	11/01/2013	11/01/2013	11/01/2013	10/01/2013	
Contact	Jonathan Boyes	SiSt = siltstone		Sample Received Date			12/01/2013	16/01/2013	17/01/2013	16/01/2013	11/01/2013	12/01/2013	12/01/2013	12/01/2013	11/01/2013	
		SST = Sandstone		J E Sample No			5-8	37-39	38-40	59-62	29-31	1-2	3-4	9-11	8-11	
		Inc.' = gravel includes		Batch Number			1	2	1	2	1	1	1	1	1	
CAS Number	**Test**	**Method**	**Units**	**LOD**	**TSV**											
	pH	TM73/PM0	pH units	<0.01	9		7.76	8.18	8.07	9.81	9.16	NA	7.57	10.92	9.9	
	Mass of raw test portion	NONE/PM17	kg													
	Leachant Volume	NONE/PM17	l													
	pH 5.2 - 9.0 good quality, 6.0 - 9.0 high quality															
7440-38-2	Dissolved Arsenic #	TM30/PM17	mg/l	<0.0009	0.05		0.0083	0.0022	<0.0009	0.0372	<0.0009		0.0014	<0.0009	0.0329	
7440-43-9	Dissolved Cadmium #	TM30/PM17	mg/l	<0.00003	0.00025		0.00034	<0.00003	0.00398	<0.00003	0.0001		0.00024	0.0001	0.00009	
7440-47-3	Dissolved Chromium #	TM30/PM17	mg/l	<0.0002	0.0047		0.0019	<0.0002	0.0006	<0.0002	0.0009		0.0011	0.0021	0.001	
7440-50-8	Dissolved Copper #	TM30/PM17	mg/l	<0.003	0.028		0.036	0.005	0.009	0.011	<0.003		0.003	0.01	<0.003	
7439-89-6	Dissolved Iron #	TM30/PM17	mg/l	<0.0047	1		0.1458	0.5837	0.1811	0.0404	0.2839		0.19	<0.0047	0.0606	
7439-92-1	Dissolved Lead #	TM30/PM17	mg/l	<0.0004	0.0072		0.0062	0.0019	0.0022	0.0056	0.0052		0.0021	0.0092	0.0023	
7440-02-0	Dissolved Nickel #	TM30/PM17	mg/l	<0.0002	0.02		<0.0002	0.0028	0.0008	0.0007	0.0004		<0.0002	<0.0002	0.0019	
7782-49-2	Dissolved Selenium #	TM30/PM17	mg/l	<0.0012	0.01		<0.0012	<0.0012	<0.0012	<0.0012	<0.0012		<0.0012	<0.0012	0.0043	
7440-66-6	Dissolved Zinc #	TM30/PM17	mg/l	<0.0015	0.125		0.0069	0.0025	0.0017	<0.0015	0.0022		0.0025	<0.0015	0.0018	
7439-97-6	Mercury Dissolved by CVAF #	TM61/PM38	mg/l	<0.00001	0.05		0.0002	0.00014	<0.00001	0.00001	0.00001		0.00002	0.00014	<0.00001	
	Total Dissolved Sulphur	TM30/PM14	mg/l	<0.01			<0.5	3.05	7.57	21.43	1.04		<0.5	<0.5	8.9	
	PAH MS															
91-20-3	Naphthalene	TM4/PM30	mg/l	<0.000014	0.0024		0.00005	0.0012	0.00021	<0.000014	0.00013		0.00005	0.00008	0.00549	
208-96-8	Acenaphthylene	TM4/PM30	mg/l	<0.000013			0.00019	0.00002	<0.000013	0.00004	0.00002		0.00002	0.00003	0.00062	
83-32-9	Acenaphthene	TM4/PM30	mg/l	<0.000013			0.00005	0.00207	<0.000013	<0.000013	0.00002		0.00005	0.00011	0.02826	
86-73-7	Fluorene	TM4/PM30	mg/l	<0.000014			0.0004	0.00062	0.00002	0.00002	0.00002		0.00019	0.00033	0.01435	
85-01-8	Phenanthrene	TM4/PM30	mg/l	<0.000011			0.00042	0.00051	0.00006	0.00024	0.00006		0.00016	0.00018	0.00829	
120-12-7	Anthracene	TM4/PM30	mg/l	<0.000013	0.0001		0.00002	0.00032	0.00002	0.00006	0.00002		<0.000013	0.00002	0.00361	
206-44-0	Fluoranthene	TM4/PM30	mg/l	<0.000012	0.0001		0.00073	0.0003	0.00006	0.00051	0.0001		0.00031	0.00053	0.00191	
129-00-0	Pyrene	TM4/PM30	mg/l	<0.000013			0.00037	0.00019	0.00004	0.00039	0.00009		0.00018	0.00033	0.00113	
56-55-3	Benzo(a)anthracene	TM4/PM30	mg/l	<0.000015			0.00003	0.00004	0.00003	0.00027	0.00005		<0.000014	0.00002	0.00027	
218-01-9	Chrysene	TM4/PM30	mg/l	<0.000011			0.00025	0.00004	0.00004	0.00029	0.00008		0.00013	0.00024	0.00025	
	Benzo(bk)fluoranthene	TM4/PM30	mg/l	<0.000018			0.00019	<0.000018	0.00004	0.00054	0.00017		0.00007	0.00016	0.00019	
50-32-8	Benzo(a)pyrene	TM4/PM30	mg/l	<0.000016	0.00005		0.00046	<0.000016	<0.000016	0.00027	0.00008		0.0002	0.00027	0.00009	
193-39-5	Indeno(123cd)pyrene	TM4/PM30	mg/l	<0.000011			0.00029	<0.000011	<0.000011	0.00026	0.00013		0.00015	0.00029	0.00005	
53-70-3	Dibenzo(ah)anthracene	TM4/PM30	mg/l	<0.00001			0.00042	<0.00001	<0.00001	<0.00001	0.00003		0.00018	0.00035	0.00001	
191-24-2	Benzo(ghi)perylene	TM4/PM30	mg/l	<0.000011			0.00395	<0.000011	<0.000011	0.00021	0.00008		0.00172	0.00298	0.00003	
	PAH 16 Total	TM4/PM30	mg/l	<0.000195			0.00008	0.00531	0.00052	0.0031	0.00108		0.00003	0.00004	0.06455	
	PAH Surrogate % Recovery	TM4/PM30	%	<0			95	101	110	106	98	NA	100	95		
	Benzo(bk)fluoranthene															
	PAH: Sum of [illegible]		mg/l		0.00003											
	PAH: Sum of [illegible]		mg/l		0.000002											
	PAH: Sum of [illegible]		mg/l		0.0001											
1634-04-4	Methyl Tertiary Butyl Ether	TM15/PM10	mg/l	<0.001			<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	
71-43-2	Benzene	TM15/PM10	mg/l	<0.001	0.01		<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	
108-88-3	Toluene	TM15/PM10	mg/l	<0.002	0.05		<0.002	<0.002	<0.002	<0.002	<0.002		<0.002	<0.002	<0.002	
100-41-4	Ethylbenzene	TM15/PM10	mg/l	<0.002	0.02		<0.002	<0.002	<0.002	<0.002	<0.002		<0.002	<0.002	<0.002	
	p/m-Xylene	TM15/PM10	mg/l	<0.003	0.03		<0.003	<0.003	<0.003	<0.003	<0.003		<0.003	<0.003	<0.003	
95-47-6	o-Xylene	TM15/PM10	mg/l	<0.002	0.03		<0.002	<0.002	<0.002	<0.002	<0.002		<0.002	<0.002	<0.002	
2037-26-5	Surrogate Recovery Toluene D8	TM15/PM10	%	<0			122	99	100	95	115	NA	119	110	113	
	Surrogate Recovery 4-Bromofluorobenzene	TM15/PM10	%	<0			103				99	NA	101	97	100	
	EPH (C8-C40)	TM5/PM30	mg/l	<0.01	0.01		<0.01	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01	18.43	
	TPH CWG															
	Aliphatics															
	>C5-C6	TM36/PM12	mg/l	<0.005	0.01			<0.005	NA	NA	<0.005	<0.005		<0.005	<0.005	
	>C6-C8	TM36/PM12	mg/l	<0.005	0.01			<0.005	NA	NA	<0.005	<0.005		<0.005	<0.005	
	>C8-C10	TM36/PM12	mg/l	<0.005	0.01			<0.005	NA	NA	<0.005	<0.005		<0.005	<0.005	
	>C10-C12	TM5/PM30	mg/l	<0.005	0.01			<0.005	NA	NA	<0.005	<0.005		<0.005	<0.005	
	>C12-C16	TM5/PM30	mg/l	<0.01	0.01			<0.01	NA	NA	<0.01	<0.010		<0.010	0.288	
	>C16-C21	TM5/PM30	mg/l	<0.01	0.01			<0.01	NA	NA	<0.01	<0.010		<0.010	0.264	
	>C21-C35	TM5/PM30	mg/l	<0.01	0.01			<0.01	NA	NA	<0.01	<0.010		<0.010	<0.01	
	Total aliphatics C5-35	TM5/TM36/PM30	mg/l	<0.01				<0.01	NA	NA	<0.01	<0.010		<0.010	0.552	
	Aromatics															
	>C5-EC7	TM36/PM12	mg/l	<0.005	0.01			<0.005	NA	NA	<0.005	<0.005		<0.005	<0.005	
	>EC7-EC8	TM36/PM12	mg/l	<0.005	0.05			<0.005	NA	NA	<0.005	<0.005		<0.005	<0.005	
	>EC8-EC10	TM36/PM12	mg/l	<0.005	0.02			<0.005	NA	NA	<0.005	<0.005		<0.005	<0.005	
	>EC10-EC12	TM5/PM30	mg/l	<0.005	0.0024			<0.005	NA	NA	<0.005	<0.005		<0.005	0.017	
	>EC12-EC16	TM5/PM30	mg/l	<0.01	0.01			<0.01	NA	NA	<0.01	<0.010		<0.010	1.868	
	>EC16-EC21	TM5/PM30	mg/l	<0.01	0.0001			<0.01	NA	NA	<0.01	<0.010		<0.010	3.579	
	>EC21-EC35	TM5/PM30	mg/l	<0.01	0.000002			<0.01	NA	NA	<0.01	<0.010		<0.010	1.25	
	Total aromatics C5-35	TM5/PM30	mg/l	<0.01				<0.01	NA	NA	<0.01	<0.010		<0.010	6.714	
	Total aliphatics and aromatics(C5-35)	TM5/TM36/PM30	mg/l	<0.01				<0.01	NA	NA	<0.01	<0.010		<0.010	7.266	
108-46-3	Resorcinol	TM26/PM0	mg/l	<0.0005			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	NA	<0.0005	<0.0005	<0.0005	
120-80-9	Catechol	TM26/PM0	mg/l	<0.0005			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	NA	<0.0005	<0.0005	<0.0005	
108-95-2	Phenol	TM26/PM0	mg/l	<0.0005	0.0077		<0.0005	<0.0005	<0.0005	<0.0005	0.0033	NA	<0.0005	<0.0005	0.0028	
	m/p-cresol	TM26/PM0	mg/l	<0.0005	0.1		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	NA	<0.0005	<0.0005	<0.0005	
95-48-7	o-cresol	TM26/PM0	mg/l	<0.0005	0.1		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	NA	<0.0005	<0.0005	<0.0005	
	Total cresols	TM26/PM0	mg/l	<0.0005	0.1		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	NA	<0.0005	<0.0005	<0.0005	
	Xylenols	TM26/PM0	mg/l	<0.0005			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	NA	<0.0005	<0.0005	<0.0005	
90-15-3	1-naphthol	TM26/PM0	mg/l	<0.0005			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	NA	<0.0005	<0.0005	<0.0005	
697-82-5	2,3,5-trimethyl phenol	TM26/PM0	mg/l	<0.0005			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	NA	<0.0005	<0.0005	<0.0005	
88-69-7	2-isopropylphenol	TM26/PM0	mg/l	<0.0005			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	NA	<0.0005	<0.0005	<0.0005	
	Total Speciated Phenols HPLC	TM26/PM0	mg/l	<0.005	0.0077		<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	
	Sulphate #	TM38/PM0	mg/l	<0.05	188		4.88	3.75	19.17	59.58	1.63	NA	1.46	10.66	7.01	
16887-00-6	Chloride #	TM38/PM0	mg/l	<0.3	187.5		0.3	0.9	2.5	3.3	<0.3	NA	0.4	8.3	0.6	
	Ammoniacal Nitrogen as NH4 #	TM38/PM0	mg/l	<0.03	0.6		<0.03	1.24	0.11	0.09	<0.03	NA	<0.03	0.04	0.21	
	Free Cyanide #	TM89/PM0	mg/l	<0.01	0.005		<0.01	<0.01	<0.01	<0.01	<0.01	NA	<0.01	<0.01	<0.01	
	Total Cyanide #	TM89/PM0	mg/l	<0.005			<0.005	0.011	<0.005	0.161	0.032	NA	<0.005	<0.005	0.016	
	Complex Cyanide	TM89/PM0	mg/l	<0.01	0.005		<0.01	0.01	<0.01	0.16	0.03	NA	<0.01	<0.01	0.02	
18496-25-8	Sulphide	TM106/PM0	mg/l	<0.3			<0.3	<0.3	<0.3	<0.3	<0.3	NA	<0.3	<0.3	<0.3	
302-04-5	Thiocyanate	TM107/PM0	mg/l	<0.02			<0.02	<0.02	<0.02	<0.02	<0.02	NA	<0.02	0.04	<0.02	
	Dissolved Organic Carbon	TM60/PM0	mg/l	<2			4	16	3	4	6	NA	5	4	9	
	Electrical Conductivity @25C	TM76/PM0	uS/cm	<2			110	132	151	248	106	NA	106	565	115	
	Total Dissolved Sulphur	TM30/PM14	mg/l	<0.01			2.45					NA	0.99	5.5		

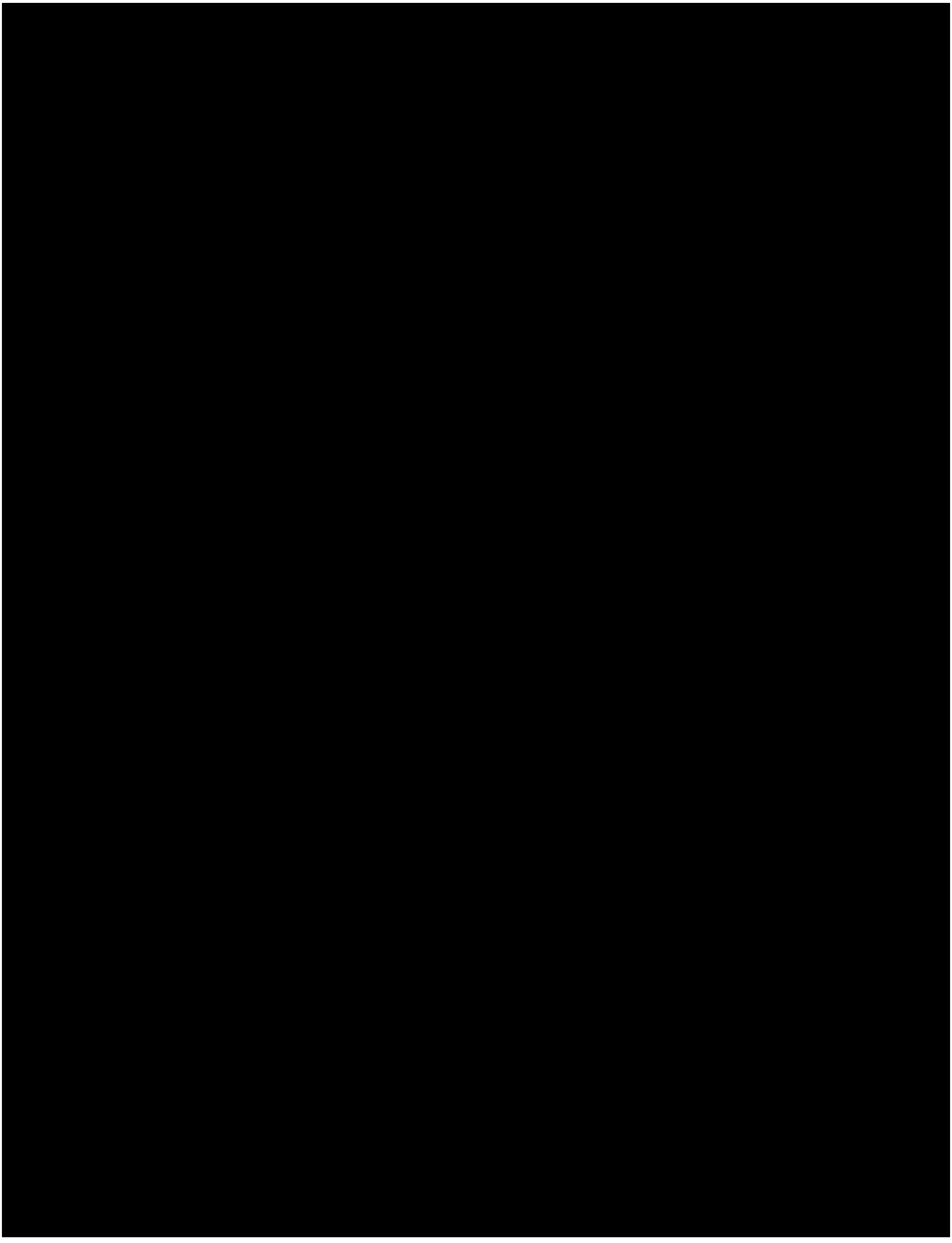
						1		1	1	1	
						13/727	13/685 b2	13/727	13/727	13/685	
		MG - G = Granular Made Ground		Sample ID	Source of TSV	BH101 0.5	HP103	TP102 0.4	TP103A 0.3	TP105	
Report:	**CEN 10:1 1 Batch**	MG - C = Cohesive Made Ground		Depth	GWS	0.5	0.3 (recorded	0.4	0.3	0.6	
JE Job No:	13/1069	MG - M = Matrix Made Ground		Strata Type	DWS 2010	MG - G	MG - G	MG - G	MG - G	MG - G	
Client:		GT = Glacial Till		Notes	WFD River / surface water	HP only, Inc clinker	Inc. clinker	HC odour & sheen		Strong HC odour and sheen to water	
	WYG										
Client ref:	A74754-28	CLAY / SAND / SILT = potential alluvium		Containers	DWS 1989	V J T	V J T	J T	V J T	V J T	
Location:	BRADFORD ROAD MANCHESTER	MST = Mudstone		Sampled Date	Former EQS	11/01/2013	14/01/2013	11/01/2013	11/01/2013	10/01/2013	
Contact	Jonathan Boyes	SiSt = siltstone		Sample Received Date		12/01/2013	16/01/2013	12/01/2013	12/01/2013	11/01/2013	
		SST = Sandstone		J E Sample No		5-8	59-62	3-4	9-11	8-11	
		Inc.' = gravel includes		Batch Number		1	2	1	1	1	
CAS Number	**Test**	**Method**	**Units**	**LOD**	**TSV**						
	pH	TM73/PM0	pH units	<0.01	9	7.76	9.81	7.57	10.92	9.9	
	Mass of raw test portion	NONE/PM17	kg								
	Leachant Volume	NONE/PM17	l								
	pH 5.2 - 9.0 good quality, 6.0 - 9.0 high quality										
7440-38-2	Dissolved Arsenic #	TM30/PM17	mg/l	<0.0009	0.05	0.0083	0.0372	0.0014	<0.0009	0.0329	
7440-43-9	Dissolved Cadmium #	TM30/PM17	mg/l	<0.00003	0.00025	0.00034	<0.00003	0.00024	0.0001	0.00009	
7440-47-3	Dissolved Chromium #	TM30/PM17	mg/l	<0.0002	0.0047	0.0019	<0.0002	0.0011	0.0021	0.001	
7440-50-8	Dissolved Copper #	TM30/PM17	mg/l	<0.003	0.028	0.036	0.011	0.003	0.01	<0.003	
7439-89-6	Dissolved Iron #	TM30/PM17	mg/l	<0.0047	1	0.1458	0.0404	0.19	<0.0047	0.0606	
7439-92-1	Dissolved Lead #	TM30/PM17	mg/l	<0.0004	0.0072	0.0062	0.0056	0.0021	0.0092	0.0023	
7440-02-0	Dissolved Nickel #	TM30/PM17	mg/l	<0.0002	0.02	<0.0002	0.0007	<0.0002	<0.0002	0.0019	
7782-49-2	Dissolved Selenium #	TM30/PM17	mg/l	<0.0012	0.01	<0.0012	<0.0012	<0.0012	<0.0012	0.0043	
7440-66-6	Dissolved Zinc #	TM30/PM17	mg/l	<0.0015	0.125	0.0069	<0.0015	0.0025	<0.0015	0.0018	
7439-97-6	Mercury Dissolved by CVAF #	TM61/PM38	mg/l	<0.00001	0.05	0.0002	0.00001	0.00002	0.00014	<0.00001	
	Total Dissolved Sulphur	TM30/PM14	mg/l	<0.01		<0.5	21.43	<0.5	<0.5	8.9	
	PAH MS										
91-20-3	Naphthalene	TM4/PM30	mg/l	<0.000014	0.0024	0.00005	<0.000014	0.00005	0.00008	0.00549	
208-96-8	Acenaphthylene	TM4/PM30	mg/l	<0.000013		0.00019	0.00004	0.00002	0.00003	0.00062	
83-32-9	Acenaphthene	TM4/PM30	mg/l	<0.000013		0.00005	<0.000013	0.00005	0.00011	0.02826	
86-73-7	Fluorene	TM4/PM30	mg/l	<0.000014		0.0004	0.00002	0.00019	0.00033	0.01435	
85-01-8	Phenanthrene	TM4/PM30	mg/l	<0.000011		0.00042	0.00024	0.00016	0.00018	0.00829	
120-12-7	Anthracene	TM4/PM30	mg/l	<0.000013	0.0001	0.00002	0.00006	<0.000013	0.00002	0.00361	
206-44-0	Fluoranthene	TM4/PM30	mg/l	<0.000012	0.0001	0.00073	0.00051	0.00031	0.00053	0.00191	
129-00-0	Pyrene	TM4/PM30	mg/l	<0.000013		0.00037	0.00039	0.00018	0.00033	0.00113	
56-55-3	Benzo(a)anthracene	TM4/PM30	mg/l	<0.000015		0.00003	0.00027	<0.000014	0.00002	0.00027	
218-01-9	Chrysene	TM4/PM30	mg/l	<0.000011		0.00025	0.00029	0.00013	0.00024	0.00025	
	Benzo(bk)fluoranthene	TM4/PM30	mg/l	<0.000018		0.00019	0.00054	0.00007	0.00016	0.00019	
50-32-8	Benzo(a)pyrene	TM4/PM30	mg/l	<0.000016	0.00005	0.00046	0.00027	0.0002	0.00027	0.00009	
193-39-5	Indeno(123cd)pyrene	TM4/PM30	mg/l	<0.000011		0.00029	0.00026	0.00015	0.00029	0.00005	
53-70-3	Dibenzo(ah)anthracene	TM4/PM30	mg/l	<0.00001		0.00042	<0.00001	0.00018	0.00035	0.00001	
191-24-2	Benzo(ghi)perylene	TM4/PM30	mg/l	<0.000011		0.00395	0.00021	0.00172	0.00298	0.00003	
	PAH 16 Total	TM4/PM30	mg/l	<0.000195		0.00008	0.0031	0.00003	0.00004	0.06455	
	PAH Surrogate % Recovery	TM4/PM30	%	<0		95	106	100	95		
	Benzo(bk)fluoranthene										
	PAH: Sum of [illegible]		mg/l		0.00003						
	PAH: Sum of [illegible]		mg/l		0.000002						
	PAH: Sum of [illegible]		mg/l		0.0001						
1634-04-4	Methyl Tertiary Butyl Ether	TM15/PM10	mg/l	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001	
71-43-2	Benzene	TM15/PM10	mg/l	<0.001	0.01	<0.001	<0.001	<0.001	<0.001	<0.001	
108-88-3	Toluene	TM15/PM10	mg/l	<0.002	0.05	<0.002	<0.002	<0.002	<0.002	<0.002	
100-41-4	Ethylbenzene	TM15/PM10	mg/l	<0.002	0.02	<0.002	<0.002	<0.002	<0.002	<0.002	
	p/m-Xylene	TM15/PM10	mg/l	<0.003	0.03	<0.003	<0.003	<0.003	<0.003	<0.003	
95-47-6	o-Xylene	TM15/PM10	mg/l	<0.002	0.03	<0.002	<0.002	<0.002	<0.002	<0.002	
2037-26-5	Surrogate Recovery Toluene D8	TM15/PM10	%	<0		122	95	119	110	113	
	Surrogate Recovery 4-Bromofluorobenzene	TM15/PM10	%	<0		103		101	97	100	
	EPH (C8-C40)	TM5/PM30	mg/l	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	18.43	
	TPH CWG										
	Aliphatics										
	>C5-C6	TM36/PM12	mg/l	<0.005	0.01		NA		<0.005	<0.005	
	>C6-C8	TM36/PM12	mg/l	<0.005	0.01		NA		<0.005	<0.005	
	>C8-C10	TM36/PM12	mg/l	<0.005	0.01		NA		<0.005	<0.005	
	>C10-C12	TM5/PM30	mg/l	<0.005	0.01		NA		<0.005	<0.005	
	>C12-C16	TM5/PM30	mg/l	<0.01	0.01		NA		<0.010	0.288	
	>C16-C21	TM5/PM30	mg/l	<0.01	0.01		NA		<0.010	0.264	
	>C21-C35	TM5/PM30	mg/l	<0.01	0.01		NA		<0.010	<0.01	
	Total aliphatics C5-35	TM5/TM36/PM30	mg/l	<0.01			NA		<0.010	0.552	
	Aromatics										
	>C5-EC7	TM36/PM12	mg/l	<0.005	0.01		NA		<0.005	<0.005	
	>EC7-EC8	TM36/PM12	mg/l	<0.005	0.05		NA		<0.005	<0.005	
	>EC8-EC10	TM36/PM12	mg/l	<0.005	0.02		NA		<0.005	<0.005	
	>EC10-EC12	TM5/PM30	mg/l	<0.005	0.0024		NA		<0.005	0.017	
	>EC12-EC16	TM5/PM30	mg/l	<0.01	0.01		NA		<0.010	1.868	
	>EC16-EC21	TM5/PM30	mg/l	<0.01	0.0001		NA		<0.010	3.579	
	>EC21-EC35	TM5/PM30	mg/l	<0.01	0.000002		NA		<0.010	1.25	
	Total aromatics C5-35	TM5/PM30	mg/l	<0.01			NA		<0.010	6.714	
	Total aliphatics and aromatics(C5-35)	TM5/TM36/PM30	mg/l	<0.01			NA		<0.010	7.266	
108-46-3	Resorcinol	TM26/PM0	mg/l	<0.0005		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
120-80-9	Catechol	TM26/PM0	mg/l	<0.0005		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
108-95-2	Phenol	TM26/PM0	mg/l	<0.0005	0.0077	<0.0005	<0.0005	<0.0005	<0.0005	0.0028	
	m/p-cresol	TM26/PM0	mg/l	<0.0005	0.1	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
95-48-7	o-cresol	TM26/PM0	mg/l	<0.0005	0.1	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
	Total cresols	TM26/PM0	mg/l	<0.0005	0.1	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
	Xylenols	TM26/PM0	mg/l	<0.0005		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
90-15-3	1-naphthol	TM26/PM0	mg/l	<0.0005		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
697-82-5	2,3,5-trimethyl phenol	TM26/PM0	mg/l	<0.0005		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
88-69-7	2-isopropylphenol	TM26/PM0	mg/l	<0.0005		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
	Total Speciated Phenols HPLC	TM26/PM0	mg/l	<0.005	0.0077	<0.005	<0.005	<0.005	<0.005	<0.005	
	Sulphate #	TM38/PM0	mg/l	<0.05	188	4.88	59.58	1.46	10.66	7.01	
16887-00-6	Chloride #	TM38/PM0	mg/l	<0.3	187.5	0.3	3.3	0.4	8.3	0.6	
	Ammoniacal Nitrogen as NH4 #	TM38/PM0	mg/l	<0.03	0.6	<0.03	0.09	<0.03	0.04	0.21	
	Free Cyanide #	TM89/PM0	mg/l	<0.01	0.005	<0.01	<0.01	<0.01	<0.01	<0.01	
	Total Cyanide #	TM89/PM0	mg/l	<0.005		<0.005	0.161	<0.005	<0.005	0.016	
	Complex Cyanide	TM89/PM0	mg/l	<0.01	0.005	<0.01	0.16	<0.01	<0.01	0.02	
18496-25-8	Sulphide	TM106/PM0	mg/l	<0.3		<0.3	<0.3	<0.3	<0.3	<0.3	
302-04-5	Thiocyanate	TM107/PM0	mg/l	<0.02		<0.02	<0.02	<0.02	0.04	<0.02	
	Dissolved Organic Carbon	TM60/PM0	mg/l	<2		4	4	5	4	9	
	Electrical Conductivity @25C	TM76/PM0	uS/cm	<2		110	248	106	565	115	
	Total Dissolved Sulphur	TM30/PM14	mg/l	<0.01		2.45		0.99	5.5		

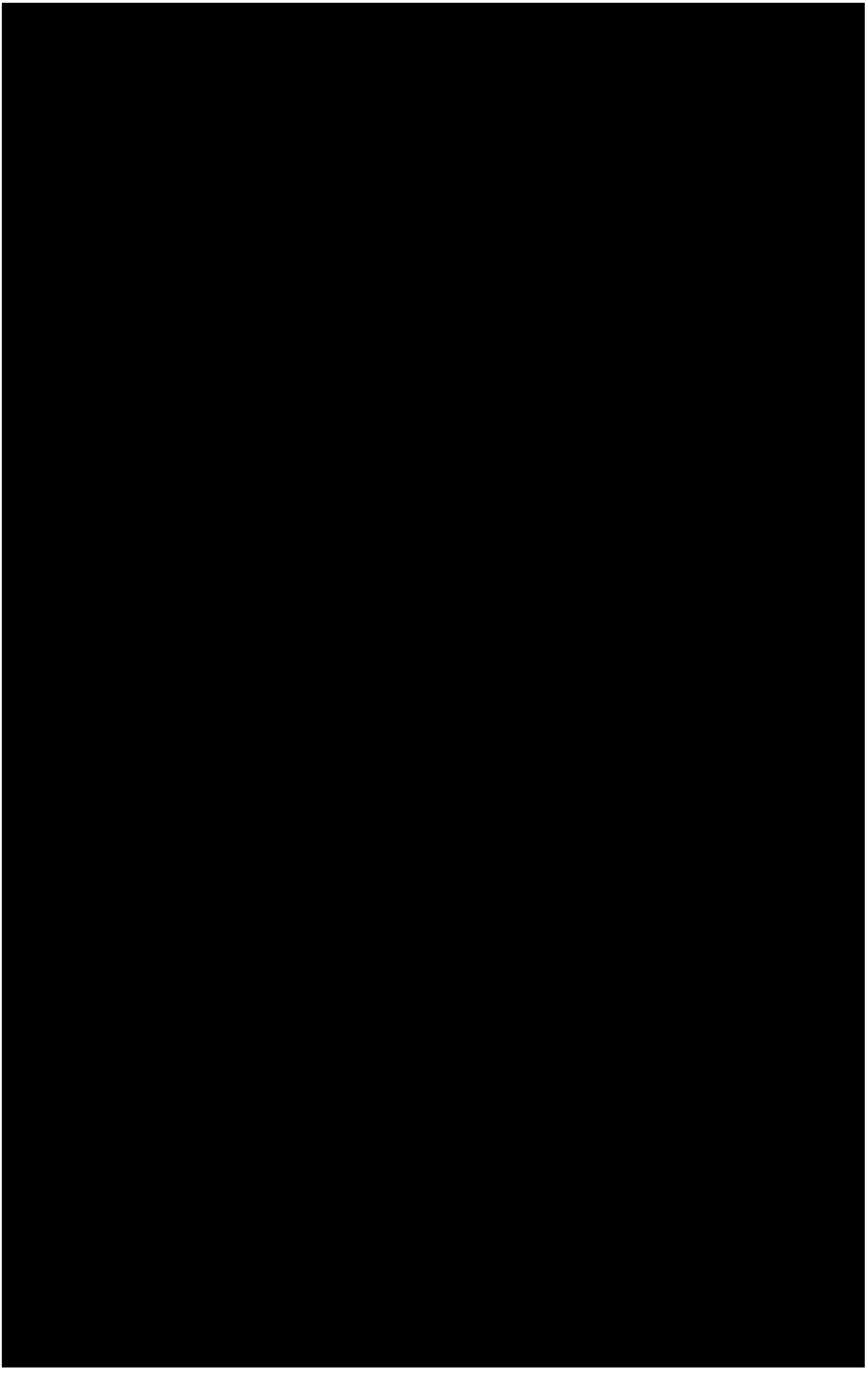
Report: CEN 10:1 1 Batch
JE Job No: 13/1069
Client: WYG
Client ref: A74754-28
Location: BRADFORD ROAD MANCHESTER
Contact Jonathan Boyes

MG - G = Granular Made Ground
MG - C = Cohesive Made Ground
MG - M = Matrix Made Ground
GT = Glacial Till
CLAY / SAND / SILT = potential alluvium
MST = Mudstone
SiSt = siltstone
SST = Sandstone
Inc.' = gravel includes

							1	1	1	[redacted]		2
						13/685 b2	13/888	13/685	13/727			
				Sample ID	**Source of TSV**	BH102	RBH102	TP101	TP102 0.2			
				Depth		1.3	1.00	0.4	0.2			
				Strata Type	**DWS 2010**	GT	GT	GT	GT			
				Notes	**WFD River / surface water**	Drilled though TP105 - Inc. coal	Inc. rare coal	Black stainig	Black stainig			
				Containers	**DWS 1989**	V J T	V J T	V J T	V J			
				Sampled Date	**Former EQS**	14/01/2013	15/01/2013	10/01/2013	11/01/2013			
				Sample Received Date		16/01/2013	17/01/2013	11/01/2013	12/01/2013			
				J E Sample No		37-39	38-40	29-31	1-2			
				Batch Number		2	1	1	1			
CAS Number	**Test**	**Method**	**Units**	**LOD**	**TSV**							
	pH	TM73/PM0	pH units	<0.01	9	8.18	8.07	9.16	NA		5	2
	Mass of raw test portion	NONE/PM17	kg									
	Leachant Volume	NONE/PM17	l									
	pH 5.2 - 9.0 good quality, 6.0 - 9.0 high quality											
7440-38-2	Dissolved Arsenic #	TM30/PM17	mg/l	<0.0009	0.05	0.0022	<0.0009	<0.0009				
7440-43-9	Dissolved Cadmium #	TM30/PM17	mg/l	<0.00003	0.00025	<0.00003	0.00398	0.0001				
7440-47-3	Dissolved Chromium #	TM30/PM17	mg/l	<0.0002	0.0047	<0.0002	0.0006	0.0009				
7440-50-8	Dissolved Copper #	TM30/PM17	mg/l	<0.003	0.028	0.005	0.009	<0.003				
7439-89-6	Dissolved Iron #	TM30/PM17	mg/l	<0.0047	1	0.5837	0.1811	0.2839				
7439-92-1	Dissolved Lead #	TM30/PM17	mg/l	<0.0004	0.0072	0.0019	0.0022	0.0052				
7440-02-0	Dissolved Nickel #	TM30/PM17	mg/l	<0.0002	0.02	0.0028	0.0008	0.0004				
7782-49-2	Dissolved Selenium #	TM30/PM17	mg/l	<0.0012	0.01	<0.0012	<0.0012	<0.0012				
7440-66-6	Dissolved Zinc #	TM30/PM17	mg/l	<0.0015	0.125	0.0025	0.0017	0.0022				
7439-97-6	Mercury Dissolved by CVAF #	TM61/PM38	mg/l	<0.00001	0.05	0.00014	<0.00001	0.00001				
	Total Dissolved Sulphur	TM30/PM14	mg/l	<0.01		3.05	7.57	1.04				
	PAH MS											
91-20-3	Naphthalene	TM4/PM30	mg/l	<0.000014	0.0024	0.0012	0.00021	0.00013				
208-96-8	Acenaphthylene	TM4/PM30	mg/l	<0.000013		0.00002	<0.000013	0.00002				
83-32-9	Acenaphthene	TM4/PM30	mg/l	<0.000013		0.00207	<0.000013	0.00002				
86-73-7	Fluorene	TM4/PM30	mg/l	<0.000014		0.00062	0.00002	0.00002				
85-01-8	Phenanthrene	TM4/PM30	mg/l	<0.000011		0.00051	0.00006	0.00006				
120-12-7	Anthracene	TM4/PM30	mg/l	<0.000013	0.0001	0.00032	0.00002	0.00002				
206-44-0	Fluoranthene	TM4/PM30	mg/l	<0.000012	0.0001	0.0003	0.00006	0.0001				
129-00-0	Pyrene	TM4/PM30	mg/l	<0.000013		0.00019	0.00004	0.00009				
56-55-3	Benzo(a)anthracene	TM4/PM30	mg/l	<0.000015		0.00004	0.00003	0.00005				
218-01-9	Chrysene	TM4/PM30	mg/l	<0.000011		0.00004	0.00004	0.00008				
	Benzo(bk)fluoranthene	TM4/PM30	mg/l	<0.000018		<0.000018	0.00004	0.00017				
50-32-8	Benzo(a)pyrene	TM4/PM30	mg/l	<0.000016	0.00005	<0.000016	<0.000016	0.00008				
193-39-5	Indeno(123cd)pyrene	TM4/PM30	mg/l	<0.000011		<0.000011	<0.000011	0.00013				
53-70-3	Dibenzo(ah)anthracene	TM4/PM30	mg/l	<0.00001		<0.00001	<0.00001	0.00003				
191-24-2	Benzo(ghi)perylene	TM4/PM30	mg/l	<0.000011		<0.000011	<0.000011	0.00008				
	PAH 16 Total	TM4/PM30	mg/l	<0.000195		0.00531	0.00052	0.00108				
	PAH Surrogate % Recovery	TM4/PM30	%	<0		101	110	98	NA			
	Benzo(bk)fluoranthene											
	PAH: Sum of		mg/l		0.00003							
	PAH: Sum of		mg/l		0.000002							
	PAH: Sum of		mg/l		0.0001							
1634-04-4	Methyl Tertiary Butyl Ether	TM15/PM10	mg/l	<0.001		<0.001	<0.001	<0.001				
71-43-2	Benzene	TM15/PM10	mg/l	<0.001	0.01	<0.001	<0.001	<0.001				
108-88-3	Toluene	TM15/PM10	mg/l	<0.002	0.05	<0.002	<0.002	<0.002				
100-41-4	Ethylbenzene	TM15/PM10	mg/l	<0.002	0.02	<0.002	<0.002	<0.002				
	p/m-Xylene	TM15/PM10	mg/l	<0.003	0.03	<0.003	<0.003	<0.003				
95-47-6	o-Xylene	TM15/PM10	mg/l	<0.002	0.03	<0.002	<0.002	<0.002				
2037-26-5	Surrogate Recovery Toluene D8	TM15/PM10	%	<0		99	100	115	NA			
	Surrogate Recovery 4-Bromofluorobenzene	TM15/PM10	%	<0				99	NA			
	EPH (C8-C40)	TM5/PM30	mg/l	<0.01	0.01	<0.01	<0.01	<0.01				
	TPH CWG											
	Aliphatics											
	>C5-C6	TM36/PM12	mg/l	<0.005	0.01	<0.005	NA	<0.005	<0.005			2
	>C6-C8	TM36/PM12	mg/l	<0.005	0.01	<0.005	NA	<0.005	<0.005			
	>C8-C10	TM36/PM12	mg/l	<0.005	0.01	<0.005	NA	<0.005	<0.005			
	>C10-C12	TM5/PM30	mg/l	<0.005	0.01	<0.005	NA	<0.005	<0.005			
	>C12-C16	TM5/PM30	mg/l	<0.01	0.01	<0.01	NA	<0.01	<0.010			
	>C16-C21	TM5/PM30	mg/l	<0.01	0.01	<0.01	NA	<0.01	<0.010			
	>C21-C35	TM5/PM30	mg/l	<0.01	0.01	<0.01	NA	<0.01	<0.010			
	Total aliphatics C5-35	TM5/TM36/PM30	mg/l	<0.01		<0.01	NA	<0.01	<0.010			
	Aromatics											
	>C5-EC7	TM36/PM12	mg/l	<0.005	0.01	<0.005	NA	<0.005	<0.005			
	>EC7-EC8	TM36/PM12	mg/l	<0.005	0.05	<0.005	NA	<0.005	<0.005			
	>EC8-EC10	TM36/PM12	mg/l	<0.005	0.02	<0.005	NA	<0.005	<0.005			
	>EC10-EC12	TM5/PM30	mg/l	<0.005	0.0024	<0.005	NA	<0.005	<0.005			
	>EC12-EC16	TM5/PM30	mg/l	<0.01	0.01	<0.01	NA	<0.01	<0.010			
	>EC16-EC21	TM5/PM30	mg/l	<0.01	0.0001	<0.01	NA	<0.01	<0.010			
	>EC21-EC35	TM5/PM30	mg/l	<0.01	0.000002	<0.01	NA	<0.01	<0.010			
	Total aromatics C5-35	TM5/PM30	mg/l	<0.01		<0.01	NA	<0.01	<0.010			
	Total aliphatics and aromatics(C5-35)	TM5/TM36/PM30	mg/l	<0.01		<0.01	NA	<0.01	<0.010			
108-46-3	Resorcinol	TM26/PM0	mg/l	<0.0005		<0.0005	<0.0005	<0.0005	NA			
120-80-9	Catechol	TM26/PM0	mg/l	<0.0005		<0.0005	<0.0005	<0.0005	NA			
108-95-2	Phenol	TM26/PM0	mg/l	<0.0005	0.0077	<0.0005	<0.0005	0.0033	NA			
	m/p-cresol	TM26/PM0	mg/l	<0.0005	0.1	<0.0005	<0.0005	<0.0005	NA			
95-48-7	o-cresol	TM26/PM0	mg/l	<0.0005	0.1	<0.0005	<0.0005	<0.0005	NA			
	Total cresols	TM26/PM0	mg/l	<0.0005	0.1	<0.0005	<0.0005	<0.0005	NA			
	Xylenols	TM26/PM0	mg/l	<0.0005		<0.0005	<0.0005	<0.0005	NA			
90-15-3	1-naphthol	TM26/PM0	mg/l	<0.0005		<0.0005	<0.0005	<0.0005	NA			
697-82-5	2,3,5-trimethyl phenol	TM26/PM0	mg/l	<0.0005		<0.0005	<0.0005	<0.0005	NA			
88-69-7	2-isopropylphenol	TM26/PM0	mg/l	<0.0005		<0.0005	<0.0005	<0.0005	NA			
	Total Speciated Phenols HPLC	TM26/PM0	mg/l	<0.005	0.0077	<0.005	<0.005	<0.005	NA			
	Sulphate #	TM38/PM0	mg/l	<0.05	188	3.75	19.17	1.63	NA			
16887-00-6	Chloride #	TM38/PM0	mg/l	<0.3	187.5	0.9	2.5	<0.3	NA			
	Ammoniacal Nitrogen as NH4 #	TM38/PM0	mg/l	<0.03	0.6	1.24	0.11	<0.03	NA			
	Free Cyanide #	TM89/PM0	mg/l	<0.01	0.005	<0.01	<0.01	<0.01	NA			
	Total Cyanide #	TM89/PM0	mg/l	<0.005		0.011	<0.005	0.032	NA			
	Complex Cyanide	TM89/PM0	mg/l	<0.01	0.005	0.01	<0.01	0.03	NA			
18496-25-8	Sulphide	TM106/PM0	mg/l	<0.3		<0.3	<0.3	<0.3	NA			
302-04-5	Thiocyanate	TM107/PM0	mg/l	<0.02		<0.02	<0.02	<0.02	NA			
	Dissolved Organic Carbon	TM60/PM0	mg/l	<2		16	3	6	NA			
	Electrical Conductivity @25C	TM76/PM0	uS/cm	<2		132	151	106	NA			
	Total Dissolved Sulphur	TM30/PM14	mg/l	<0.01					NA			







Report: Liquid
JE Job No:
Client: WYG
Client ref: A74754-28
Location: BRADFORD RD
Contact: Jonathan Boyes

Source of TSV
DWS 2010
WFD River / surface water
DWS 1989
Former EQS

	13/2571					Round 2 13/1769				
Sample ID	BH2	BH102	RBH101	RBH102	[redacted]	BH2	BH102	RBH101	RBH102	[redacted]
Installation Depth	3.0 - 6.9	2.5 - 3.0	19.0 - 30.0	18.0 - 24.5		3.0 - 6.9	2.5 - 3.0	19.0 - 30.0	18.0 - 24.5	
Strata type	Boulder Clay	Clayey sand lens	SIST / MST	SIST		Boulder Clay	Clayey sand lens	SIST / MST	SIST	
Containers	V H N Z P G	V H HCL N Z P G	V H HCL N Z P G	V H N Z P G		V H N Z P G	V H HCL N Z P G	V H HCL N Z P G	V	
Sample Type	Ground Water	Ground Water	Ground Water	Ground Water		Ground Water	Ground Water	Ground Water	Ground Water	
Sampled Date	06/03/2013	06/03/2013	06/03/2013	06/03/2013		12/02/2013	12/02/2013	12/02/2013	12/02/2013	
Sample Received Date	07/03/2013	07/03/2013	07/03/2013	07/03/2013		13/02/2013	13/02/2013	13/02/2013	13/02/2013	
J E Sample No	29-35	1-9	10-19	20-28		1-9	10-19	20-29	39-42	
Batch Number	1	1	1	1		1	1	1	1	

CAS Number	Test	Method	Units	LOD	TSV	BH2	BH102	RBH101	RBH102		BH2	BH102	RBH101	RBH102	
7439-97-6	Mercury Dissolved by CVAF #	TM61/PM38	ug/l	<0.01	0.05	<0.01	0.01	<0.01	<0.01		<0.01	0.01	<0.01	NA	
	PAH Surrogate % Recovery	TM4/PM30	%	<0		93	106	102	95		89	84	90	NA	
	Total Alkalinity as CaCO3 #	TM75/PM0	mg/l	<1		NA	472	1802	NA		920	816	4522	NA	
2037-26-5	Surrogate Recovery Toluene D8	TM15/PM10	%	<0		122	121	122	121		122	109	104	NA	
460-00-4	Surrogate Recovery 4-Bromofluorobenzene	TM15/PM10	%	<0		130	126	128	127		115	106	104	NA	
7440-38-2	Dissolved Arsenic #	TM30/PM14	mg/l	<0.0009	0.05	<0.0009	0.0064	0.0078	0.0041		0.0013	0.0081	0.0028	NA	
7440-43-9	Dissolved Cadmium #	TM30/PM14	mg/l	<0.00003	0.0025	0.00016	<0.00003	<0.00003	<0.00003		<0.00003	0.00034	0.00018	NA	
7440-47-3	Total Dissolved Chromium #	TM30/PM14	mg/l	<0.0002	0.0375	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002	0.0005	NA	
7440-50-8	Dissolved Copper #	TM30/PM14	mg/l	<0.003	0.028	<0.003	<0.003	<0.003	<0.003		<0.003	<0.003	<0.003	NA	
7439-89-6	Total Dissolved Iron #	TM30/PM14	mg/l	<0.0047	1	<0.0047	<0.0047	<0.0047	0.4976		<0.0047	0.0184	0.2352	NA	
	Total Dissolved Iron	TM30/PM14	mg/l		1	NA	NA	NA	NA		NA	<20	235	NA	
7439-92-1	Dissolved Lead #	TM30/PM14	mg/l	<0.0004	0.0072	0.0006	0.0102	0.0089	0.0115		0.0034	0.0076	0.0081	NA	
7440-02-0	Dissolved Nickel #	TM30/PM14	mg/l	<0.0002	0.02	0.0013	0.0042	0.0008	0.0039		<0.0002	0.0019	0.0013	NA	
7782-49-2	Dissolved Selenium #	TM30/PM14	mg/l	<0.0012	0.01	<0.0012	<0.0012	<0.0012	<0.0012		<0.0012	<0.0012	<0.0012	NA	
7440-66-6	Dissolved Zinc #	TM30/PM14	mg/l	<0.0015	0.125	<0.0015	<0.0015	<0.0015	0.0041		0.002	<0.0015	0.0204	NA	
	Total Hardness Dissolved (as CaCO3)	TM30/PM0	mg/l	<1		257	475	382	282		217	417	218	NA	
	Total Dissolved Sulphur	TM30/PM14	mg/l	<0.01		11.9	17.18	9.12	15.93		18.56	46.43	28.5	NA	
	PAH MS														
91-20-3	Naphthalene #	TM4/PM30	mg/l	<0.000014	0.0024	<0.000014	0.00034	0.00025	<0.000014		0.00004	0.00028	0.00171	NA	
208-96-8	Acenaphthylene #	TM4/PM30	mg/l	<0.000013		<0.000013	0.00007	0.00002	<0.000013		<0.000013	0.00008	0.00014	NA	
83-32-9	Acenaphthene #	TM4/PM30	mg/l	<0.000013		<0.000013	0.00791	0.00002	<0.000013		<0.000013	0.00258	0.00006	NA	
86-73-7	Fluorene #	TM4/PM30	mg/l	<0.000014		<0.000014	0.00186	0.00003	<0.000014		<0.000014	0.00044	0.0001	NA	
85-01-8	Phenanthrene #	TM4/PM30	mg/l	<0.000011		<0.000011	0.00051	0.00003	<0.000011		0.00002	0.00016	0.00021	NA	
120-12-7	Anthracene #	TM4/PM30	mg/l	<0.000013	0.0001	<0.000013	0.00019	<0.000013	<0.000013		<0.000013	0.00008	0.00004	NA	
206-44-0	Fluoranthene #	TM4/PM30	mg/l	<0.000012	0.0001	<0.000012	0.00012	<0.000012	<0.000012		0.00003	0.00006	0.0001	NA	
129-00-0	Pyrene #	TM4/PM30	mg/l	<0.000013		<0.000013	0.00008	<0.000013	<0.000013		0.00003	0.00009	0.00009	NA	
56-55-3	Benzo(a)anthracene #	TM4/PM30	mg/l	<0.000015		<0.000015	<0.000015	<0.000015	<0.000015		0.00002	<0.000015	0.00003	NA	
218-01-9	Chrysene #	TM4/PM30	mg/l	<0.000011		<0.000011	<0.000011	<0.000011	<0.000011		0.00002	<0.000011	0.00002	NA	
	Benzo(bk)fluoranthene #	TM4/PM30	mg/l	<0.000018		<0.000018	<0.000018	<0.000018	<0.000018		0.00004	<0.000018	0.00004	NA	
50-32-8	Benzo(a)pyrene #	TM4/PM30	mg/l	<0.000016	0.00005	<0.000016	<0.000016	<0.000016	<0.000016		0.00002	<0.000016	0.00002	NA	
193-39-5	Indeno(123cd)pyrene #	TM4/PM30	mg/l	<0.000011		<0.000011	<0.000011	<0.000011	<0.000011		<0.000011	<0.000011	<0.000011	NA	
53-70-3	Dibenzo(ah)anthracene #	TM4/PM30	mg/l	<0.00001		<0.00001	<0.00001	<0.00001	<0.00001		<0.00001	<0.00001	<0.00001	NA	
191-24-2	Benzo(ghi)perylene #	TM4/PM30	mg/l	<0.000011		<0.000011	<0.000011	<0.000011	<0.000011		<0.000011	<0.000011	<0.000011	NA	
	PAH 16 Total #	TM4/PM30	mg/l	<0.000195		<0.000195	0.01108	0.00035	<0.000195		0.00022	0.00377	0.00256	NA	
205-99-2	Benzo(b)fluoranthene	TM4/PM30	mg/l	<0.00001		<0.00001	<0.00001	<0.00001	<0.00001		0.00003	<0.00001	0.00003	NA	
207-08-9	Benzo(k)fluoranthene	TM4/PM30	mg/l	<0.00001		<0.00001	<0.00001	<0.00001	<0.00001		0.00001	<0.00001	0.00001	NA	
	PAH: Sum of benzo(b)fluoranthene and benzo(k)fluoranthene		mg/l		0.00003										
	PAH: Sum of benzo(g,h,i)perylene and indeno(1,2,3-cd)pyrene		mg/l		0.000002										
	PAH: Sum of benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(g,h,i)perylene and indeno(1,2,3-cd)pyrene		mg/l		0.0001										
1634-04-4	Methyl Tertiary Butyl Ether #	TM15/PM10	mg/l	<0.001		<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	NA	
71-43-2	Benzene #	TM15/PM10	mg/l	<0.001	0.01	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	NA	
108-88-3	Toluene #	TM15/PM10	mg/l	<0.002	0.05	<0.002	<0.002	<0.002	<0.002		<0.002	<0.002	0.004	NA	
100-41-4	Ethylbenzene #	TM15/PM10	mg/l	<0.002	0.02	<0.002	<0.002	<0.002	<0.002		<0.002	<0.002	<0.002	NA	
	p/m-Xylene	TM15/PM10	mg/l	<0.003	0.03	<0.003	<0.003	<0.003	<0.003		<0.003	<0.003	<0.003	NA	
95-47-6	o-Xylene	TM15/PM10	mg/l	<0.002	0.03	<0.002	<0.002	<0.002	<0.002		<0.002	<0.002	<0.002	NA	
	For xylenes total Xylene screening value used.														
	EPH (C8-C40) #	TM5/PM30	mg/l	<0.01	0.01	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01	<0.01	NA	
	TPH CWG														
	Aliphatics														
	>C5-C6 #	TM36/PM12	mg/l	<0.005	0.01	NA	<0.005	NA	NA		NA	<0.005	NA	<0.005	
	>C6-C8 #	TM36/PM12	mg/l	<0.005	0.01	NA	<0.005	NA	NA		NA	<0.005	NA	<0.005	
	>C8-C10 #	TM36/PM12	mg/l	<0.005	0.01	NA	<0.005	NA	NA		NA	<0.005	NA	0.039	
	>C10-C12 #	TM5/PM30	mg/l	<0.005	0.01	NA	<0.005	NA	NA		NA	<0.005	NA	NDP	
	>C12-C16 #	TM5/PM30	mg/l	<0.01	0.01	NA	<0.01	NA	NA		NA	<0.01	NA	NDP	
	>C16-C21 #	TM5/PM30	mg/l	<0.01	0.01	NA	<0.01	NA	NA		NA	<0.01	NA	NDP	
	>C21-C35 #	TM5/PM30	mg/l	<0.01	0.01	NA	<0.01	NA	NA		NA	<0.01	NA	NDP	
	Total aliphatics C5-35 #	TM5/TM36/PM30	mg/l	<0.01		NA	<0.01	NA	NA		NA	<0.01	NA	NDP	
	Total aliphatics C5-C12 #	TM5/TM36/PM30	mg/l	<0.01		NA	<0.01	NA	NA		NA	<0.01	NA	NDP	
	Total aliphatics >C12-C35 #	TM5/TM36/PM30	mg/l	<0.01		NA	<0.01	NA	NA		NA	<0.01	NA	NDP	
	Aromatics														
	>C5-EC7 #	TM36/PM12	mg/l	<0.005	0.01	NA	<0.005	NA	NA		NA	<0.005	NA	<0.005	
	>EC7-EC8 #	TM36/PM12	mg/l	<0.005	0.05	NA	<0.005	NA	NA		NA	<0.005	NA	0.045	
	>EC8-EC10 #	TM36/PM12	mg/l	<0.005	0.02	NA	<0.005	NA	NA		NA	<0.005	NA	<0.005	
	>EC10-EC12 #	TM5/PM30	mg/l	<0.005	0.0024	NA	<0.005	NA	NA		NA	<0.005	NA	NDP	
	>EC12-EC16 #	TM5/PM30	mg/l	<0.01	0.01	NA	<0.01	NA	NA		NA	<0.01	NA	NDP	
	>EC16-EC21 #	TM5/PM30	mg/l	<0.01	0.0001	NA	<0.01	NA	NA		NA	<0.01	NA	NDP	
	>EC21-EC35 #	TM5/PM30	mg/l	<0.01	0.000002	NA	<0.01	NA	NA		NA	<0.01	NA	NDP	
	Total aromatics C5-35 #	TM5/PM30	mg/l	<0.01		NA	<0.01	NA	NA		NA	<0.01	NA	NDP	
	Total aromatics C6-C12	TM5/TM36/PM30	mg/l	<0.01		NA	<0.01	NA	NA		NA	<0.01	NA	NDP	
	Total aromatics >EC12-EC35 #	TM5/TM36/PM30	mg/l	<0.01		NA	<0.01	NA	NA		NA	<0.01	NA	NDP	
	Total aliphatics and aromatics(C5-35) #	TM5/TM36/PM30	mg/l	<0.01		NA	<0.01	NA	NA		NA	<0.01	NA	NDP	
108-46-3	Resorcinol	TM26/PM0	mg/l	<0.0005		<0.0005	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005	NA	
120-80-9	Catechol	TM26/PM0	mg/l	<0.0005		<0.0005	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005	NA	
108-95-2	Phenol	TM26/PM0	mg/l	<0.0005	0.0077	<0.0005	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005	0.0041	NA	
	m/p-cresol	TM26/PM0	mg/l	<0.0005	0.1	0.0023	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005	0.0042	NA	
95-48-7	o-cresol	TM26/PM0	mg/l	<0.0005	0.1	0.0009	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005	0.0041	NA	
	Total cresols	TM26/PM0	mg/l	<0.0005	0.1	0.0032	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005	0.0083	NA	
	Xylenols	TM26/PM0	mg/l	<0.0005		0.0219	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005	NA	
90-15-3	1-naphthol	TM26/PM0	mg/l	<0.0005		<0.0005	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005	NA	
697-82-5	2,3,5-trimethyl phenol	TM26/PM0	mg/l	<0.0005		<0.0005	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005	NA	
88-69-7	2-isopropylphenol	TM26/PM0	mg/l	<0.0005		<0.0005	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005	NA	
	Total Speciated Phenols HPLC	TM26/PM0	mg/l	<0.005		0.025	<0.005	<0.005	<0.005		<0.005	<0.005	0.012	NA	
	Sulphate #	TM38/PM0	mg/l	<0.05		75.8	102.92	51.18	93.58		53.35	152.2	93.8	NA	
16887-00-6	Chloride #	TM38/PM0	mg/l	<0.3		23.3	265.9	18.7	26.5		18.8	309.4	13.2	NA	
14797-55-8	Nitrate as NO3 #	TM38/PM0	mg/l	<0.2	0.05	NA	<0.2	<0.2	NA		NA	<0.2	<0.2	NA	
14797-65-0	Nitrite as NO2 #	TM38/PM0	mg/l	<0.02	0.0005	NA	<0.02	<0.02	NA		NA	<0.02	<0.02	NA	
	Free Cyanide #	TM89/PM0	mg/l	<0.005	0.005	<0.005	<0.005	<0.005	<0.005		<0.01	<0.01	<0.01	NA	
57-12-5	Total Cyanide	TM89/PM0	mg/l	<0.005		0.016	0.025	<0.005	<0.005		0.009	0.023	0.014	NA	
	Complex Cyanide	TM89/PM0	mg/l	<0.01	0.005	0.02	0.03	<0.01	<0.01		<0.01	0.02	0.01	NA	
	Hydrogen cyanide 95th %ile used														
	Ammoniacal Nitrogen as NH4 #	TM38/PM0	mg/l	<0.03	0.6	0.37	0.93	0.4	0.47		0.3	0.86	0.58	NA	
	Total Ammonia as Nitrogen used														
74-82-8	Dissolved Methane	TM25/PM0	mg/l	<0.001		NA	0.048	0.425	NA			0.494	0.134		
18496-25-8	Sulphide	TM106/PM0	mg/l	<0.3		<0.3	<0.3	<0.3	<0.3		<0.3	<0.3	<0.3	NA	
302-04-5	Thiocyanate	TM107/PM0	mg/l	<0.02		<0.02	<0.02	<0.02	<0.02		<0.02	0.05	<0.02	NA	
7782-44-7	Dissolved Oxygen	TM59/PM0	mg/l	<1		NA	5	3	NA		NA	7	<1	NA	
	Dissolved Organic Carbon	TM60/PM0	mg/l	<2		<2	11	<2	<2		<2	14	11	NA	
	Electrical Conductivity @25C #	TM76/PM0	uS/cm	<2		640	1882	964	706		532	1908	655	NA	
	Iron II	TM48/PM0	mg/l	<0.02	1	NA	2.65	21	NA		NA	4.5	117	NA	
	Iron III	TM30/TM48/PM0	mg/l	<0.02	1	NA	76.04	1770	NA		NA	3.55	2301	NA	
	Manganese II	TM62/PM0	mg/l	<0.02	0.05	NA	11.56	23.45	NA		NA	2.7	27.32	NA	
	pH #	TM73/PM0	pH units	<0.01	9	7.42	7.59	7.13	7.52		7.55	7.31	8.08	NA	
	Total Organic Carbon	TM60/PM0	mg/l	<2		NA	21	8	NA		NA	15	11	NA	
	Total Suspended Solids	TM37/PM0	mg/l	<10		6105	1643	139605	25220		6855	444	66255	NA	
	pH 5.2 - 9.0 good quality, 6.0 - 9.0 high quality														

Appendix G11 – Geotechnical Analysis Certificates

PSL
Professional Soils Laboratory

LABORATORY REPORT

UKAS TESTING
4043

Contract Number: PSL13/0706

Client's Reference: Report Date: 25 March 2013

Client Name: WYG Leeds
Arndale Court
Headingley
Leeds

LS6 2UJ

For the attention of: Rebecca Pool

Contract Title: Bradford Road/ Manchester

Date Received: 1/3/2013
Date Commenced: 1/3/2013
Date Completed: 25/3/2013

Notes: Observations and Interpretations are outside the UKAS Accreditation

A copy of the Laboratory Schedule of accredited tests as issued by UKAS is attached to this report. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced in full, without the prior written approval of the laboratory.

Checked and Approved Signatories:

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awatkins@prosoils.co.uk

SUMMARY OF LABORATORY SOIL DESCRIPTIONS

Hole Number	Sample Number	Sample Type	Depth m	Description of Sample
BH102		D	1.80	Brown slightly gravelly sandy CLAY.
BH102		U	2.00-2.50	Brown slightly gravelly sandy CLAY.
BH102		B	3.40-4.00	Brown gravelly very sandy silty CLAY.
[redacted]				
TP101		D	2.00	Brown gravelly sandy CLAY.
TP104		D	0.80	Reddish brown very sandy CLAY.
TP105		D	0.90	Brown slightly gravelly sandy CLAY.
[redacted]				
RBH101		D	1.20	Reddish brown sandy CLAY.
RBH101		B	4.50-5.50	Brown slightly gravelly very sandy silty CLAY.
[redacted]				

PSL
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Compiled by	Date	Checked by	Date	Approved by	Date
	21/03/13		25/03/13		25/03/13
BRADFORD ROAD / MANCHESTER.				Contract No:	PSL13/0706
				Client Ref:	A74754-28

SUMMARY OF LABORATORY SOIL DESCRIPTIONS

Hole Number	Sample Number	Sample Type	Depth m	Description of Sample
[redacted]				
RBH102		U	2.00-2.50	Brown slightly gravelly sandy CLAY.
RBH102		D	2.50	Brown gravelly sandy CLAY.
RBH102		B	3.50-4.50	Brown slightly gravelly very sandy silty CLAY.
[redacted]				

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Compiled by	Date	Checked by	Date	Approved by	Date
	21/03/13		25/03/13		25/03/13

BRADFORD ROAD / MANCHESTER.

Contract No: PSL13/0706

Client Ref: A74754-28

SUMMARY OF SOIL CLASSIFICATION TESTS

(B.S. 1377 : PART 2 : 1990)

Hole Number	Sample Number	Sample Type	Depth m	Moisture Content % Clause 3.2	Bulk Density Mg/m^3 Clause 7.2	Dry Density Mg/m^3 Clause 7.2	Particle Density Mg/m^3 Clause 8.	Liquid Limit % Clause 4.3/4.4	Plastic Limit % Clause 5.	Plasticity Index % Clause 6.	% Passing .425mm	Remarks
BH102		D	1.80	24				39	21	18	94	Intermediate plasticity CI.
[redacted]												
HP102		D	1.10	21				39	19	20	96	Intermediate plasticity CI.
HP103		D	1.00	18	2.04	1.73						
[redacted]												
TP101		D	2.00	13	2.00	1.77						
TP104		D	0.80	20				35	17	18	100	Intermediate plasticity CI.
TP105		D	0.90	34				52	23	29	95	Low plasticity CL.
[redacted]												
RBH101		D	1.20	20				38	18	20	100	Intermediate plasticity CI.
[redacted]												
RBH102		D	2.50	14				35	16	19	87	Intermediate plasticity CI.
[redacted]												

SYMBOLS : **NP : Non Plastic** *** : Liquid Limit and Plastic Limit Wet Sieved.**

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Compiled by	Date	Checked by	Date	Approved by	Date
	21/03/13		21/03/13		21/03/13

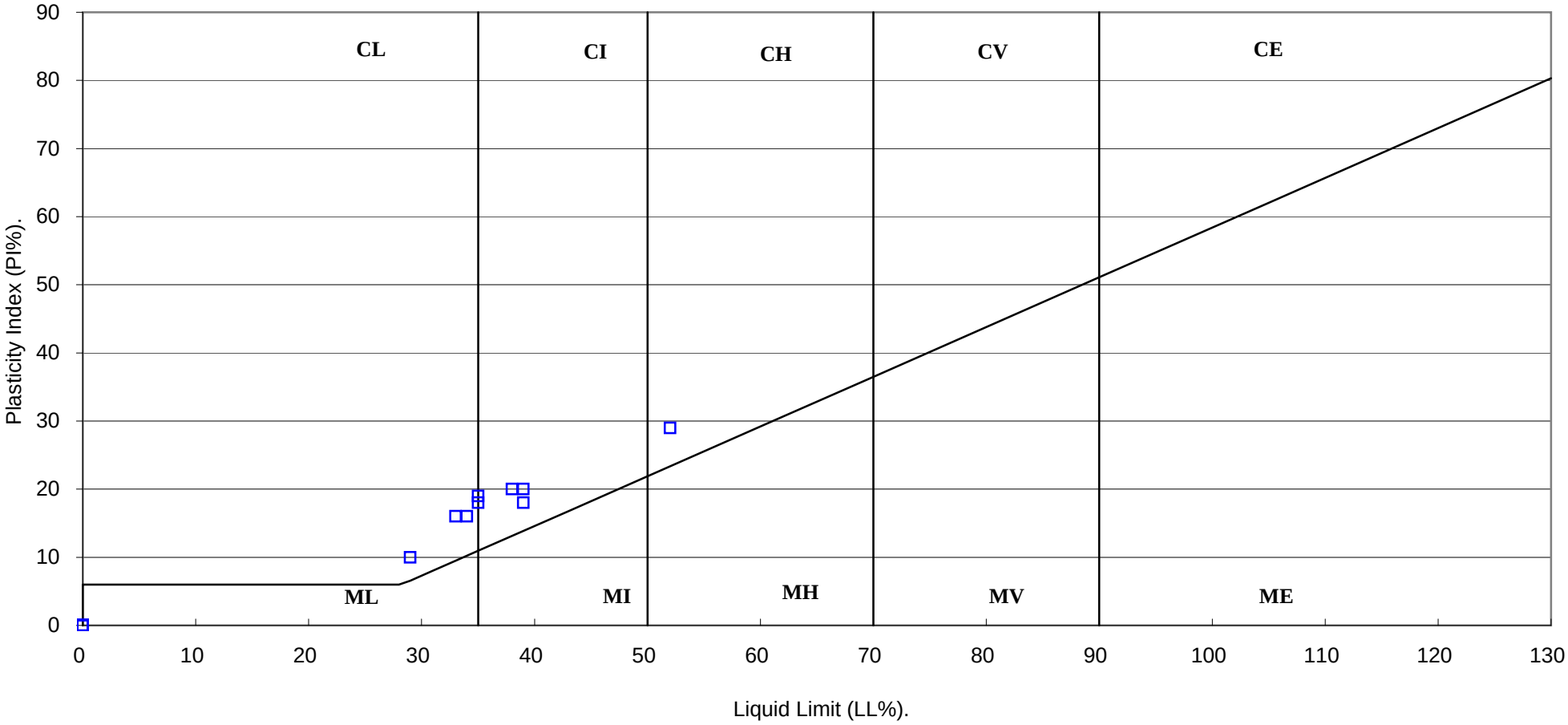
BRADFORD ROAD / MANCHESTER.

Contract No: **PSL13/0706**

Client Ref:

PLASTICITY CHART FOR CASAGRANDE CLASSIFICATION.

(B.S.5930 : 1999)



	Compiled by	Date	Checked by	Date	Approved by	Date
PSL Professional Soils Laboratory		21/03/13		21/03/13		21/03/13
	BRADFORD ROAD / MANCHESTER.				Contract No:	PSL13/0706
					Client Ref:	

[redacted]

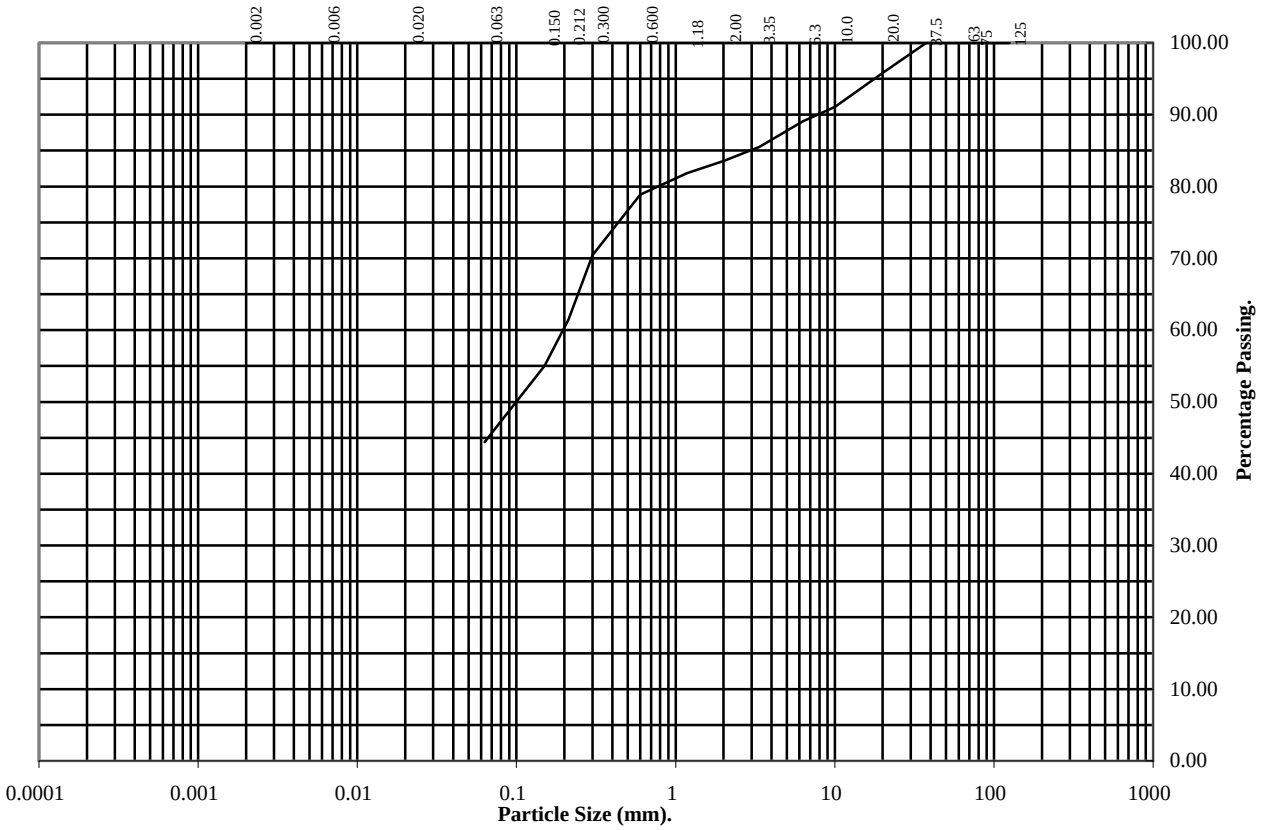
Particle Size Distribution Test

BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

Hole Number: **BH102** **Depth (m):** **3.40-4.00**

Sample Number: **Sample Type:** **B**



BS Test Sieve	Percentage Passing
125	100
75	100
63	100
37.5	100
20	96
10	91
6.3	89
3.35	86
2	84
1.18	82
0.6	79
0.3	70
0.212	61
0.15	55
0.063	44

Soil Fraction	Total Percentage
Cobbles	0
Gravel	16
Sand	40
Silt / Clay	44

Remarks:
See summary of soil descriptions.

Checked By	Date	Approved By	Date
RC	21/03/13	RC	21/03/13

PSL Professional Soils Laboratory	**BRADFORD ROAD / MANCHESTER.**	**Contract No.: PSL13/0706**

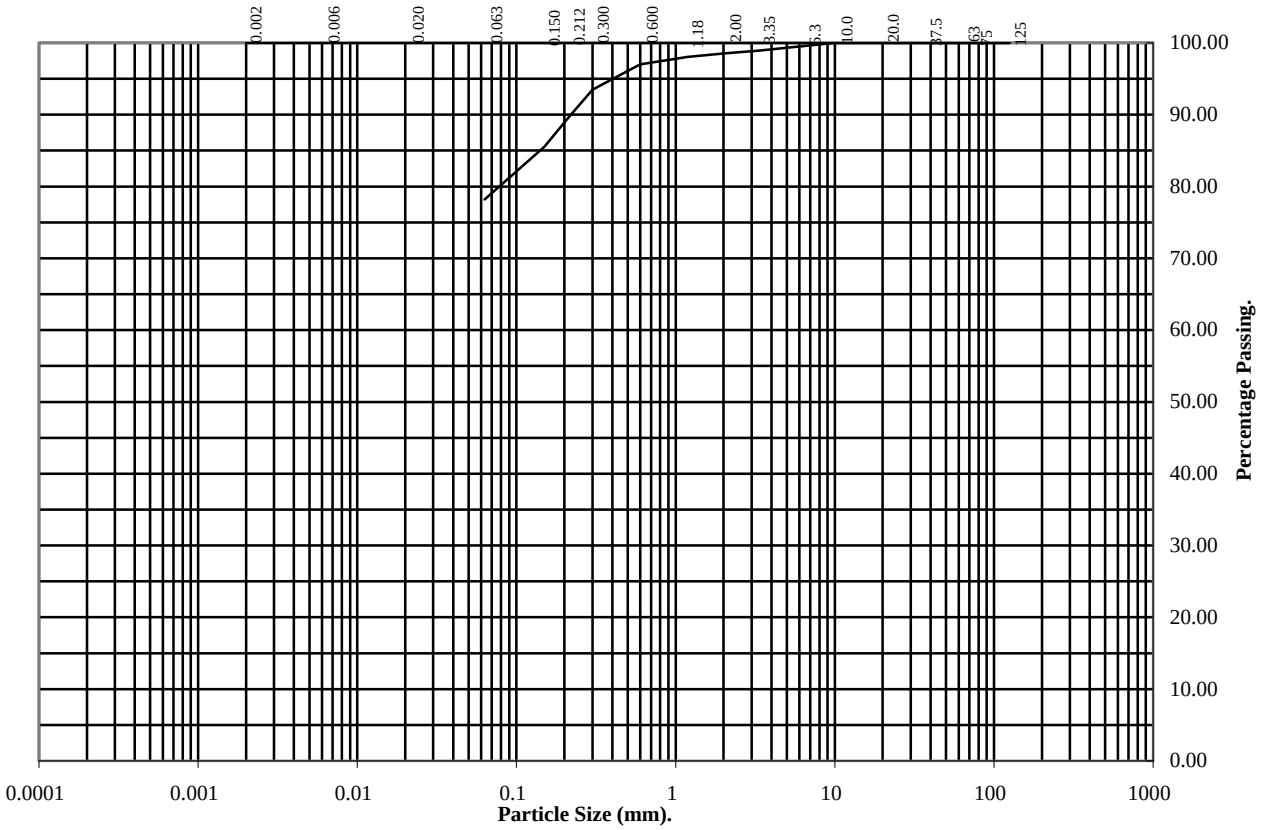
Particle Size Distribution Test

BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

Hole Number: **RBH101** **Depth (m):** **4.50-5.50**

Sample Number: **Sample Type:** **B**



BS Test Sieve	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	100
6.3	100
3.35	99
2	99
1.18	98
0.6	97
0.3	94
0.212	90
0.15	86
0.063	78

Soil Fraction	Total Percentage
Cobbles	0
Gravel	1
Sand	21
Silt / Clay	78

Remarks:
See summary of soil descriptions.

Checked By	Date	Approved By	Date
RC	21/03/13	RC	21/03/13

PSL Professional Soils Laboratory	**BRADFORD ROAD / MANCHESTER.**	**Contract No.: PSL13/0706**

[redacted]

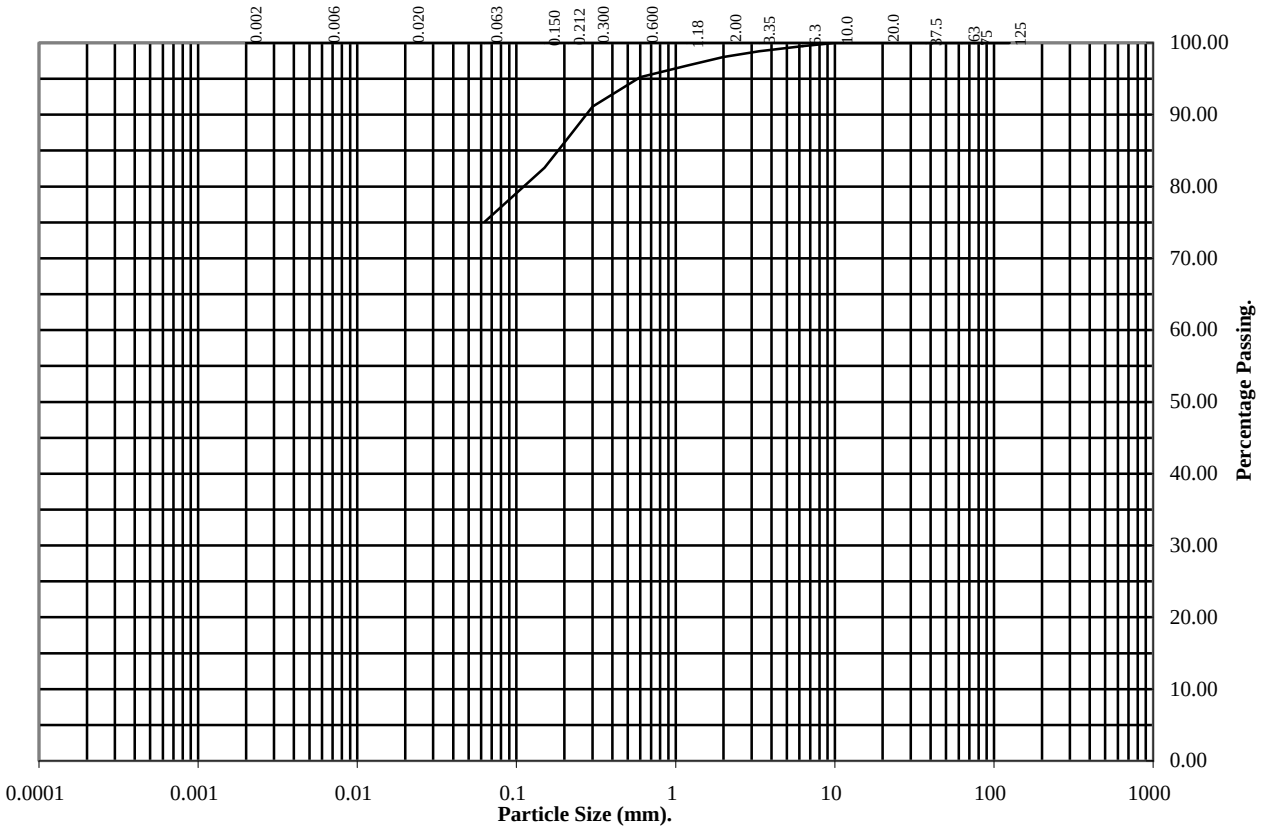
Particle Size Distribution Test

BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

Hole Number: **RBH102** **Depth (m):** **3.50-4.50**

Sample Number: **Sample Type:** **B**



BS Test Sieve	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	100
6.3	100
3.35	99
2	98
1.18	97
0.6	95
0.3	91
0.212	87
0.15	83
0.063	75

Soil Fraction	Total Percentage
Cobbles	0
Gravel	2
Sand	23
Silt / Clay	75

Remarks:
See summary of soil descriptions.

Checked By	Date	Approved By	Date
RC	21/03/13	RC	21/03/13

PSL Professional Soils Laboratory	**BRADFORD ROAD / MANCHESTER.**	**Contract No.: PSL13/0706**

[redacted]

[redacted]

[redacted]

Permeability in a Triaxial Cell

BS 1377 : Part 6 : 1990 Clause 6

Specimen Details

Borehole		BH102
Sample Ref.		
Sample Depth	m	2.00-2.50
Sample Type		U
Date		25/03/2013
Disturbed / Undisturbed		Undisturbed

Description of Specimen

Brown slightly gravelly sandy CLAY

Initial Specimen Conditions

Height	mm	102.00
Diameter	mm	103.00
Area	mm^2	8332.29
Volume	cm^3	849.89
Bulk Density	Mg/m^3	2.10
Dry Density	Mg/m^3	1.76
Moisture Content	%	20
Voids Ratio		0.510
Specific Gravity	Mg/m^3	2.65
(assumed/measured)		assumed

Final Specimen Conditions

Moisture Content	%	19
Bulk Density	Mg/m^3	2.10
Dry Density	Mg/m^3	1.76

Test Setup

Date Started		13/03/2013
Date Finished		21/03/2013
Top Drain Used		Y
Base Drain Used		Y
Method of Saturation		By back pressure
Direction Of Flow		Vertically Downwards
Saturation Time	Days	2
Consolidation Time	Days	3
Permeability Time	Days	2

Checked and Approved By **Date 25/03/13**

PSL Professional Soils Laboratory

BRADFORD ROAD

Client Ref
A74754-28
Contract No
PSL/0706

Permeability in a Triaxial Cell

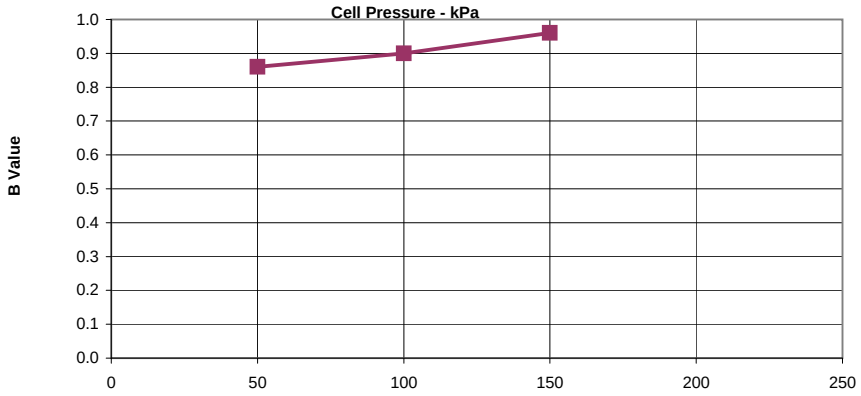
BS 1377 : Part 6 : 1990 Clause 6

Specimen Details

Borehole		BH102
Sample No.		0
Depth:	m	2.00-2.50

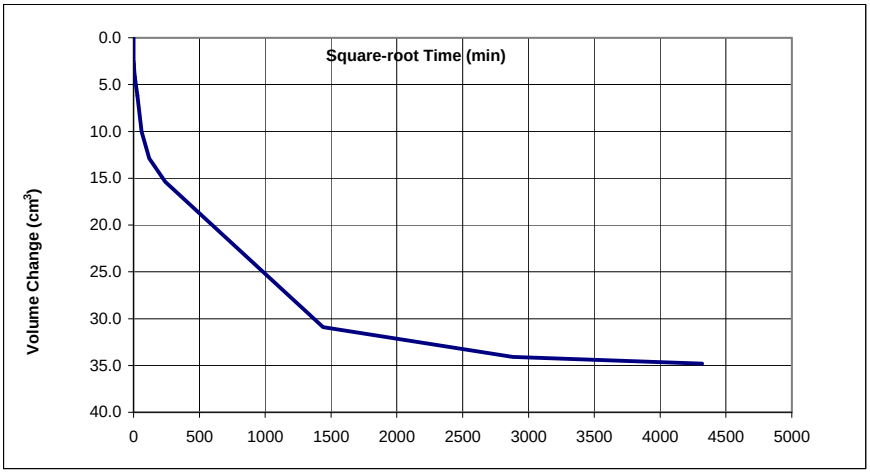
Saturation

Cell Pressure Incr.	kPa	50
Back Pressure Incr.	kPa	50
Differential Pressure	kPa	10
Final Cell Pressure	kPa	150
Final B Value		0.96



Consolidation

Effective Pressure	kPa	100.00
Cell Pressure	kPa	400.00
Back Pressure	kPa	300.00
Final PWP	kPa	302.00
% PWP dissipation		98.00



Professional Soils Laboratory

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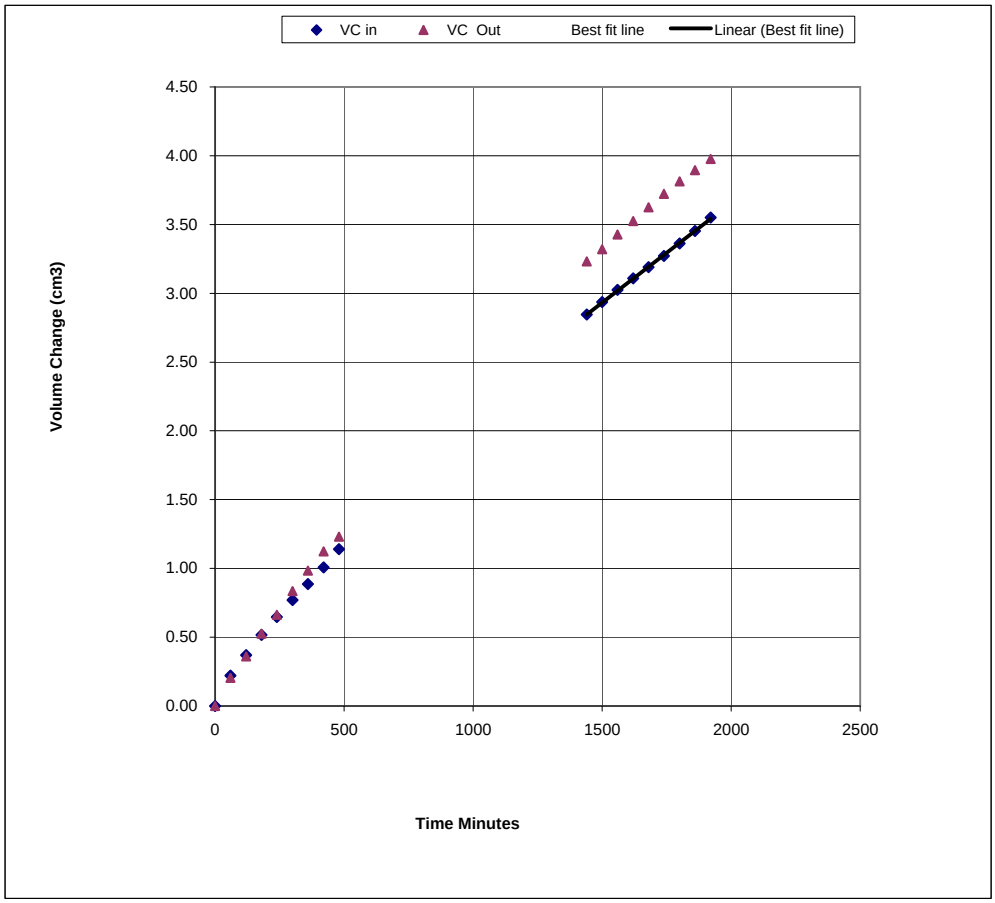
Permeability in a Triaxial Cell

BS 1377 : Part 6 : 1990 Clause 6

Specimen Details

Borehole		BH102
Sample No.		0
Depth	m	2.00-2.50

Permeability Stage



Cell Pressure	kPa	400.00
Mean Effective Stress	kPa	100.00
Back Pressure Diff.	kPa	20.00
Mean Rate of Flow	ml/min	0.001
Average Temperature	'C	20
Vertical Permeability Kv	m/s	1.5×10^{-10}

Professional Soils Laboratory

BRADFORD ROAD

Client Ref
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Contract No
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Permeability in a Triaxial Cell

BS 1377 : Part 6 : 1990 Clause 6

Specimen Details

Borehole		RBH102
Sample Ref.		
Sample Depth	m	2.00-2.50
Sample Type		U
Date		25/03/2013
Disturbed / Undisturbed		Undisturbed

Description of Specimen

Brown slightly gravelly sandy CLAY

Initial Specimen Conditions

Height	mm	102.00
Diameter	mm	101.00
Area	mm^2	8011.85
Volume	cm^3	817.21
Bulk Density	Mg/m^3	2.15
Dry Density	Mg/m^3	1.83
Moisture Content	%	17
Voids Ratio		0.448
Specific Gravity	Mg/m^3	2.65
(assumed/measured)		assumed

Final Specimen Conditions

Moisture Content	%	16
Bulk Density	Mg/m^3	2.13
Dry Density	Mg/m^3	1.83

Test Setup

Date Started		11/03/2013
Date Finished		25/03/2013
Top Drain Used		Y
Base Drain Used		Y
Method of Saturation		By back pressure
Direction Of Flow		Vertically Downwards
Saturation Time	Days	3
Consolidation Time	Days	4
Permeability Time	Days	2

Checked and Approved By **Date 25/03/13**

PSL Professional Soils Laboratory

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Client Ref
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Contract No
PSL/0706

Permeability in a Triaxial Cell

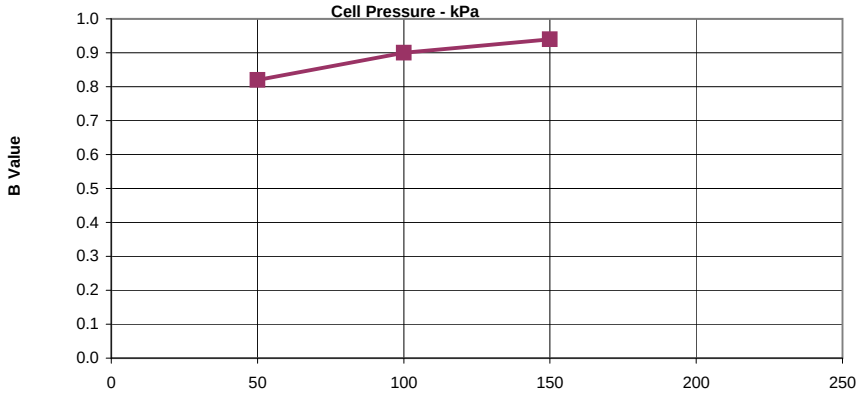
BS 1377 : Part 6 : 1990 Clause 6

Specimen Details

Borehole		RBH102
Sample No.		0
Depth:	m	2.00-2.50

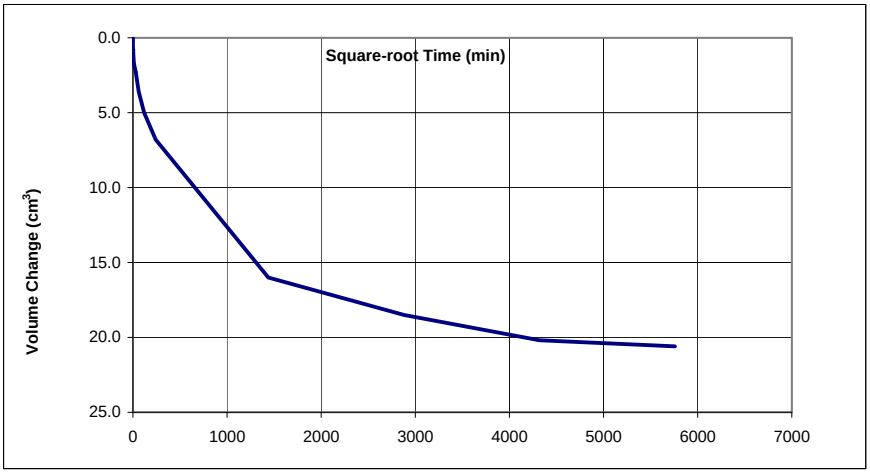
Saturation

Cell Pressure Incr.	kPa	50
Back Pressure Incr.	kPa	50
Differential Pressure	kPa	10
Final Cell Pressure	kPa	200
Final B Value		0.96



Consolidation

Effective Pressure	kPa	100.00
Cell Pressure	kPa	400.00
Back Pressure	kPa	300.00
Final PWP	kPa	304.00
% PWP dissipation		97.00



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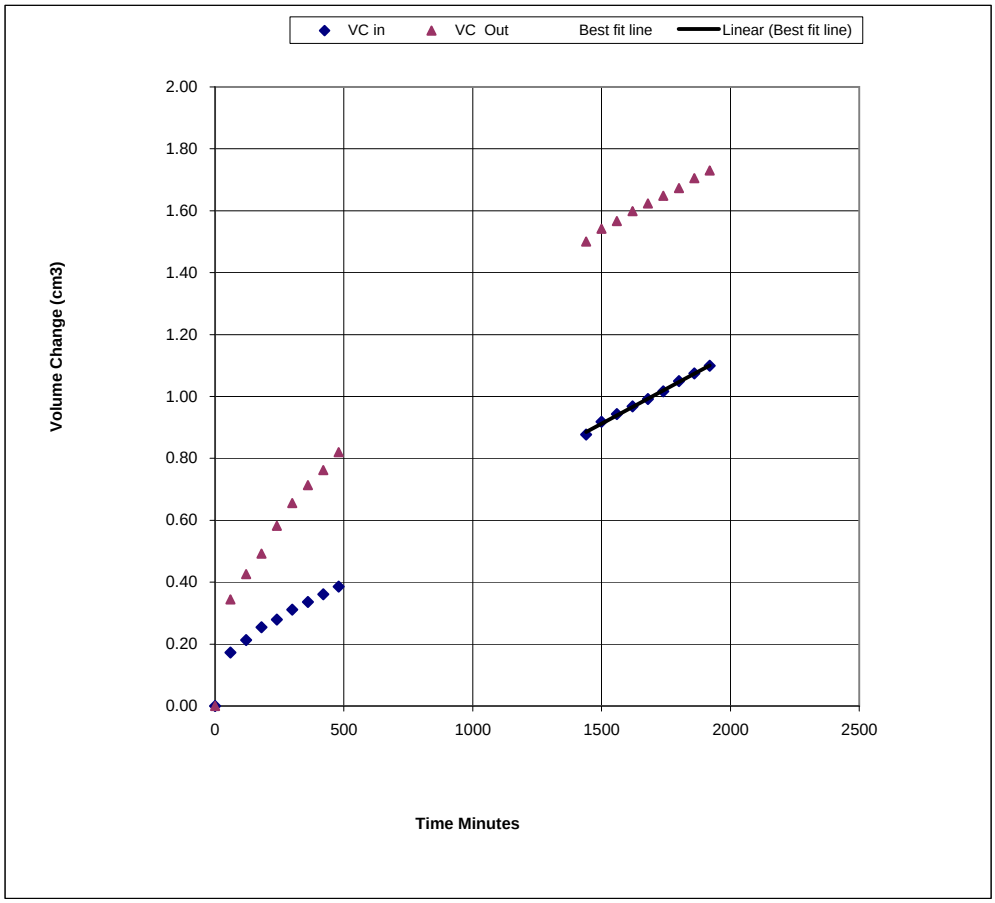
Permeability in a Triaxial Cell

BS 1377 : Part 6 : 1990 Clause 6

Specimen Details

Borehole		RBH102
Sample No.		0
Depth	m	2.00-2.50

Permeability Stage

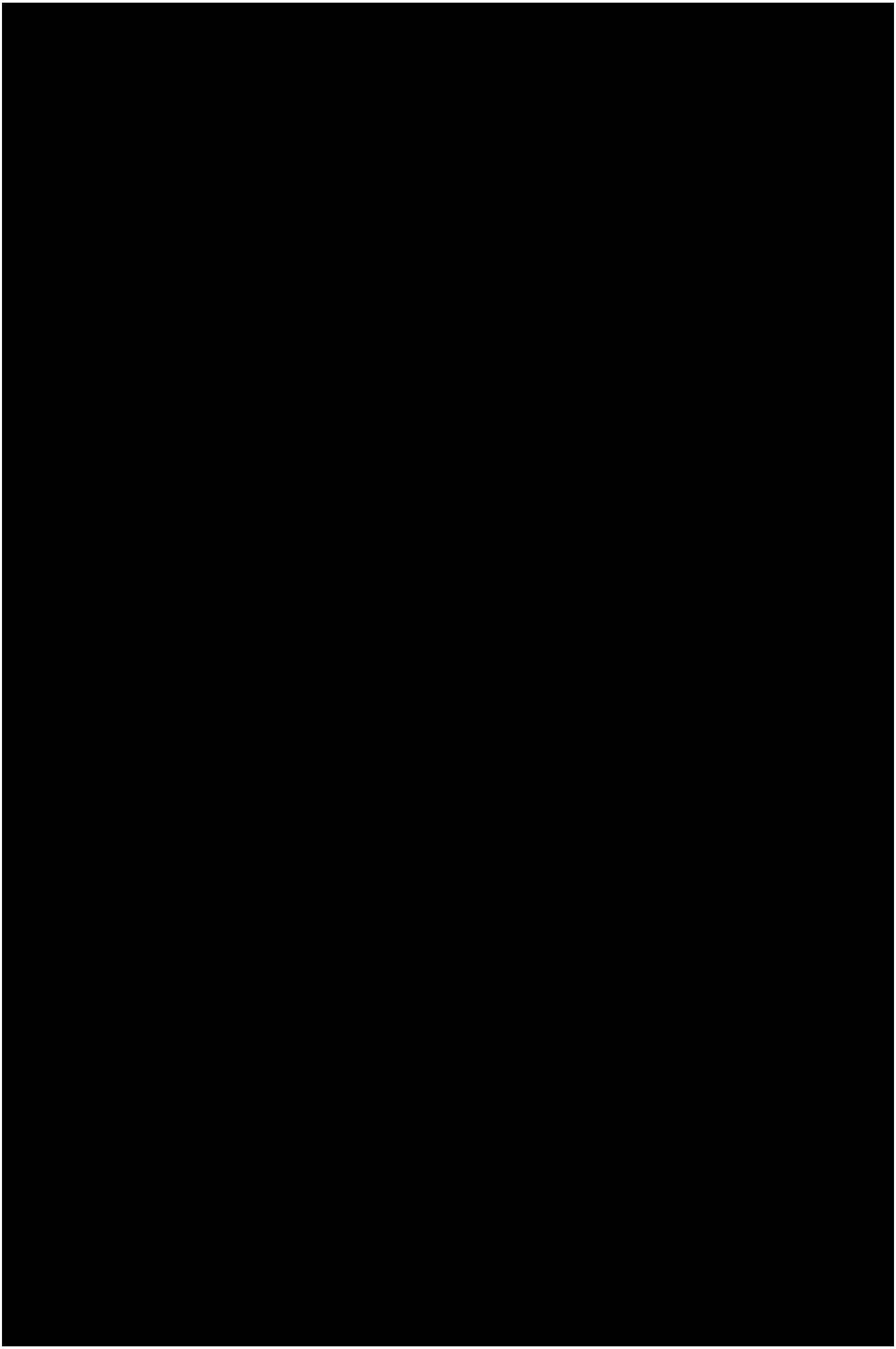


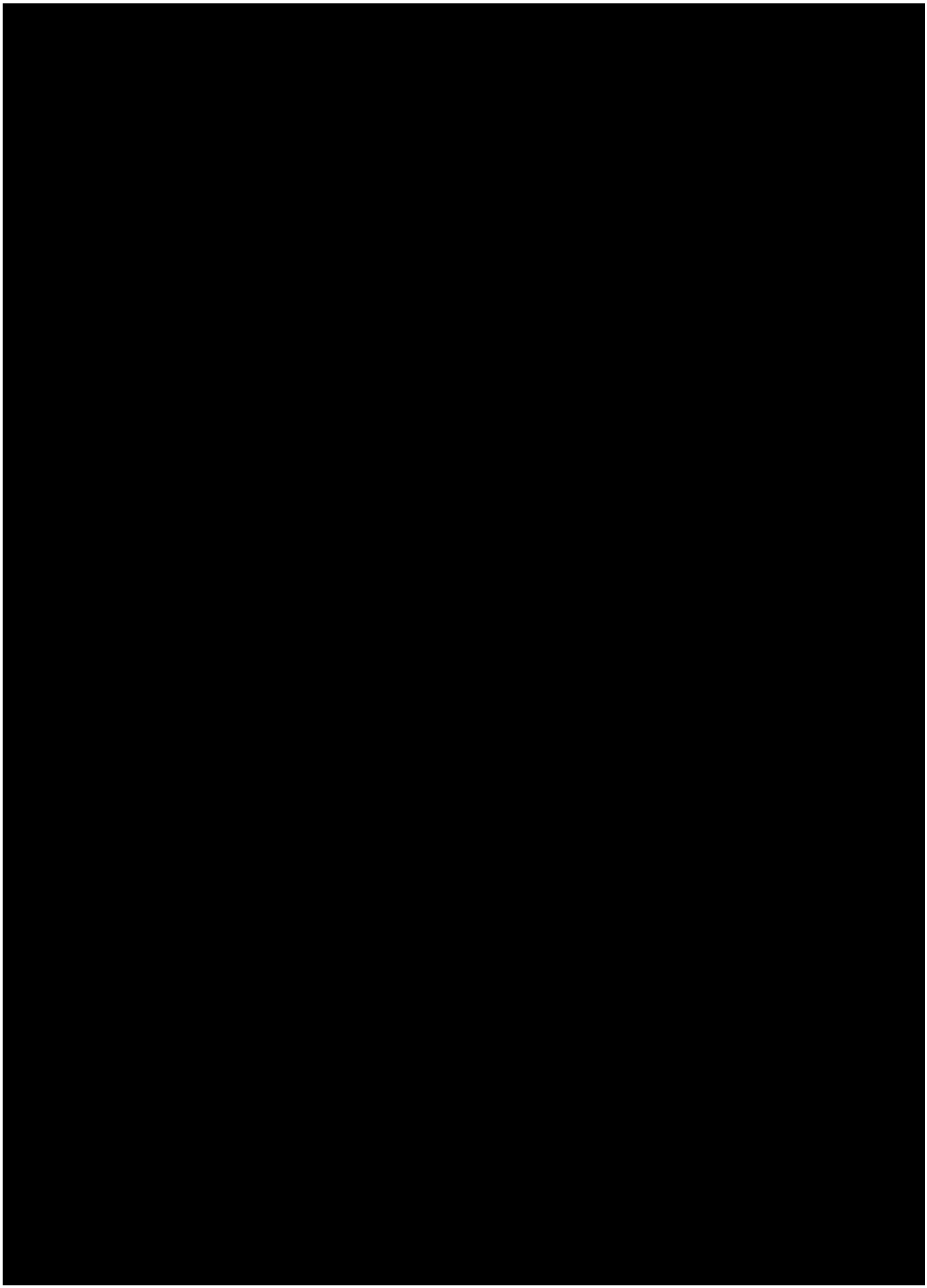
Cell Pressure	kPa	400.00
Mean Effective Stress	kPa	100.00
Back Pressure Diff.	kPa	20.00
Mean Rate of Flow	ml/min	0.000
Average Temperature	'C	20
Vertical Permeability Kv	m/s	4.8×10^{-11}

Professional Soils Laboratory

BRADFORD ROAD

Client Ref
A74754-28
Contract No
PSL/0706





Appendix G12 – Variable Head Tests

Appendix G13 - Laboratory Correspondence

We have investigated your query and have checked all the data which you have highlighted. All AQC checks and blanks passed our acceptance criteria and all the data have been reported correctly. Therefore, we are satisfied that the reported results are correct.

With regards to the duplicates, it must be noted that they are two separate samples, so therefore the differences in the data are not significant. The laboratory adopts quality control measures in order to maintain the quality of its data, above a minimum standard, based upon known and accepted criteria. Every test has been validated and acceptance criteria determined. This has to satisfy UKAS/MCERTS in terms of precision and bias. Precision is a measure of how close the measured values are to each other and these are different for each test.
Shewart charts plotting the current performance of the laboratory are an integral part of our AQC system. The term accuracy is a measure of how close a measured value is to the actual true value and this can be affected by how close the value is to the method detection limit.
Horwitz (Horwitz Trumpet Fig 1 below) indicated that the nearer the value was to the LOD, the greater the error would be. The figure below shows that for an LOD of 10ppb the %RSD Reproducibility would be approximately ± 32%. Furthermore, it is possible that this error could be up to ±100 % of the true value if the LOD is less than 1ug/l. Many of the determinands within the reports, 13/1769, 13/2571 and 13/2625, had LOD's which were considerably lower than 1ppb. Therefore, according to Horwitz, the results of the duplicated determinands would be considered to be acceptable.

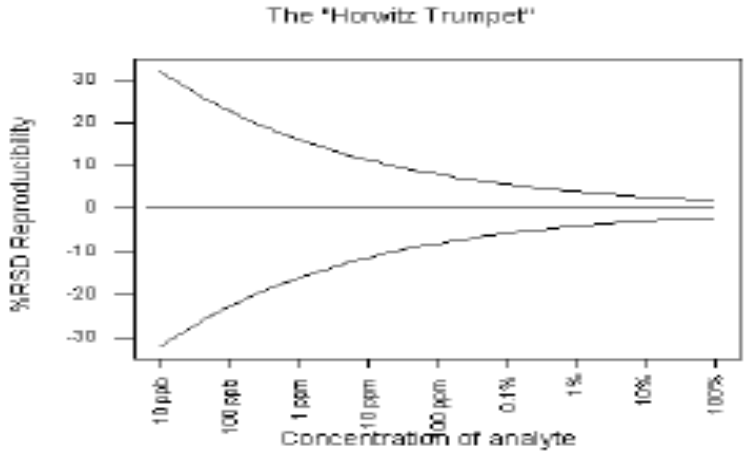
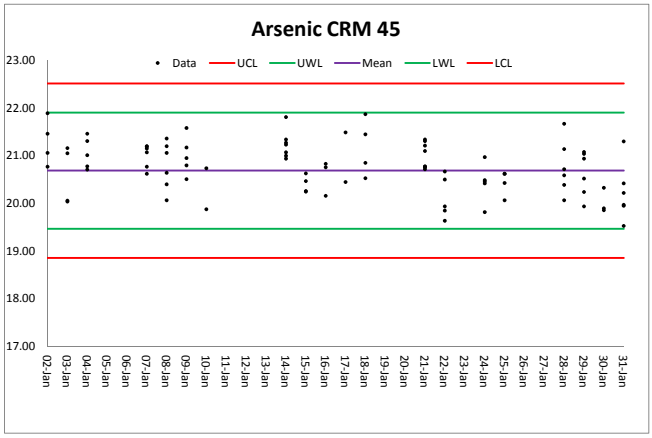


Fig 1. The "Horwitz Trumpet". Purists may object to negative RSD values—the lines are best regarded as confidence boundaries.

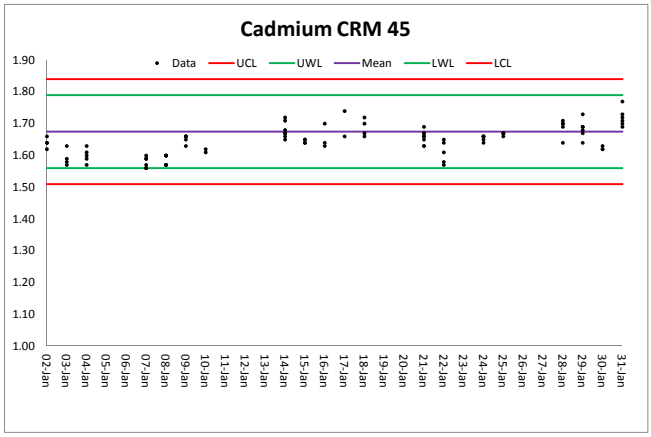
It is, also, possible that the transportation of water samples containing an LNAPL or sheen of product with duplicates and trip blanks would have an effect on the organics concentrations within the samples through ingression and possible cross-contamination. Furthermore, it is possible that the presence of any sediment within the samples (boreholes or duplicates) could have an influence on the analytical results obtained.

Appendix G14 – Jones Shewhart Charts

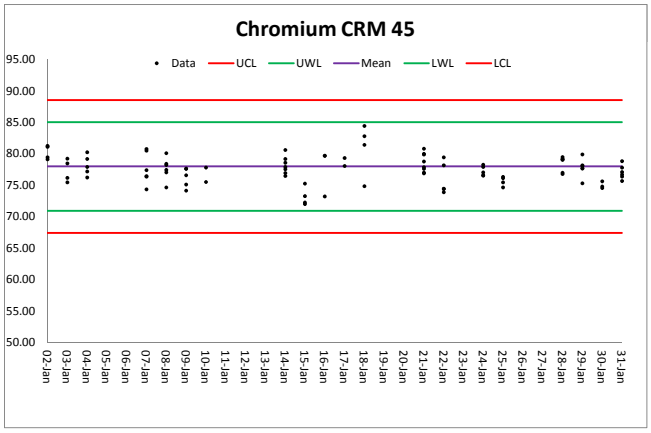
TM030: Metals - January 2012



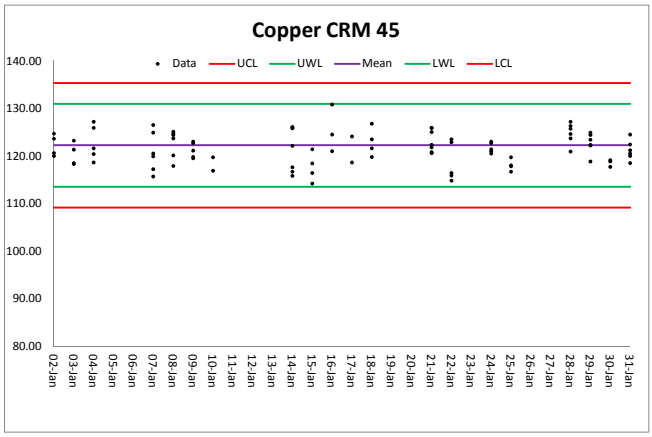
	Batch Stats	Target Value
Mean	20.73778947	
SD	0.53	
Std Conc	18.4	
RSD	2.57	10.00
% Bias	12.71	20.00



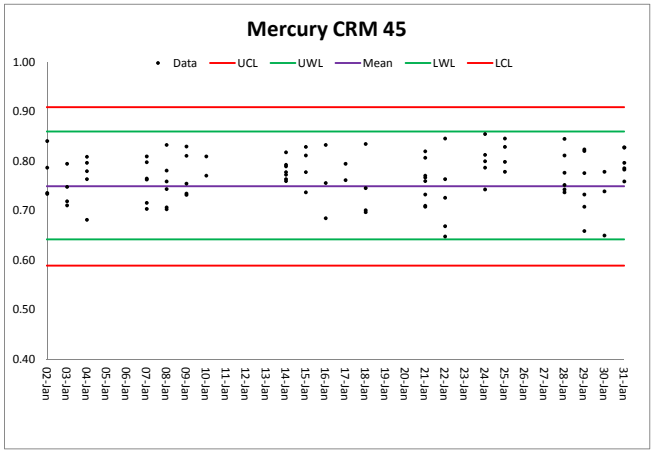
	Batch Stats	Target Value
Mean	1.647789474	
SD	0.05	
Std Conc	1.61	
RSD	2.80	7.50
% Bias	2.35	15.00



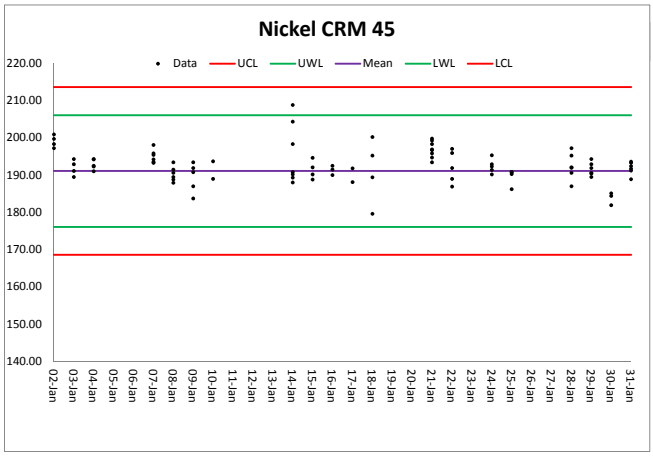
	Batch Stats	Target Value
Mean	77.53410526	
SD	2.27	
Std Conc	85.3	
RSD	2.92	7.50
% Bias	-9.10	15.00



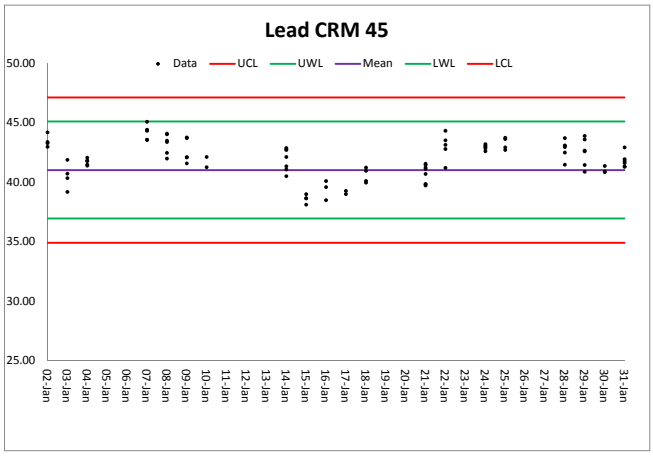
	Batch Stats	Target Value
Mean	121.5178947	
SD	3.32	
Std Conc	122	
RSD	2.73	7.50
% Bias	-0.40	15.00



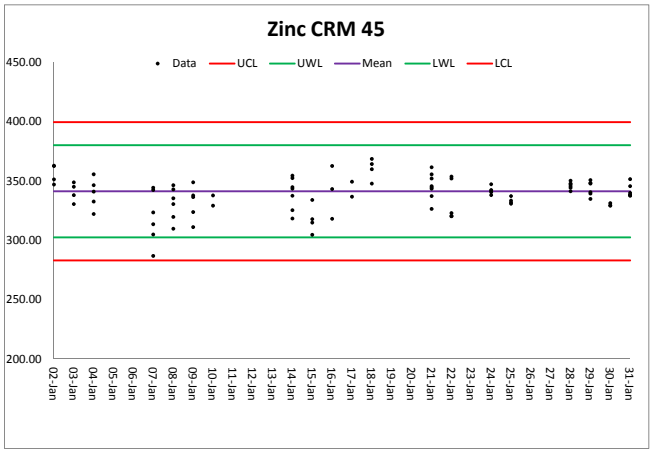
	Batch Stats	Target Value
Mean	0.768294737	
SD	0.048090755	
Std Conc	0.795	
RSD	6.26	7.50
% Bias	-3.36	15.00



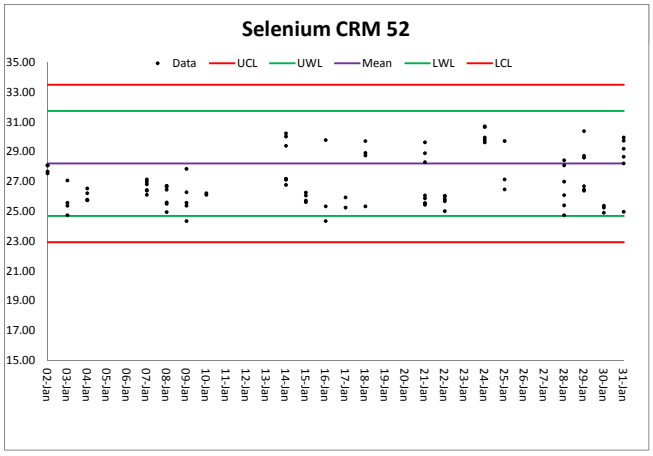
	Batch Stats	Target Value
Mean	192.4778947	
SD	4.45	
Std Conc	199	
RSD	2.31	7.50
% Bias	-3.28	15.00



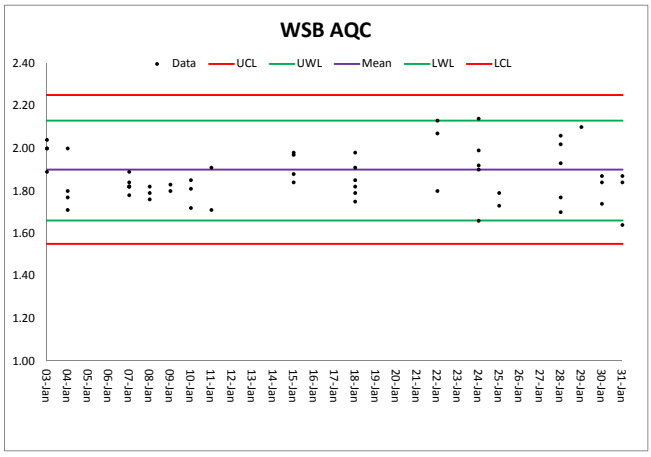
	Batch Stats	Target Value
Mean	41.96894737	
SD	1.57	
Std Conc	42.8	
RSD	3.75	7.50
% Bias	-1.94	15.00



	Batch Stats	Target Value
Mean	338.8315789	
SD	14.59355923	
Std Conc	330	
RSD	4.31	7.50
% Bias	2.68	15.00

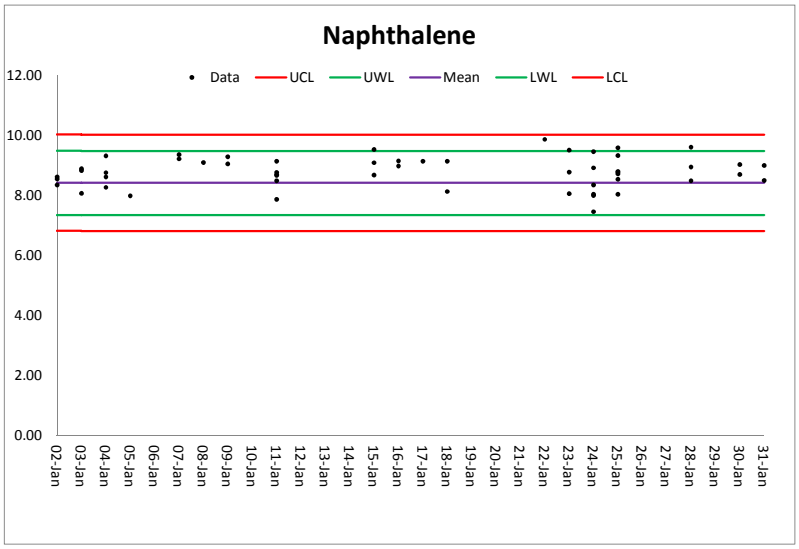


	Batch Stats	Target Value
Mean	27.01095745	
SD	1.703962535	
Std Conc	25.3	
RSD	6.31	10.00
% Bias	6.76	20.00

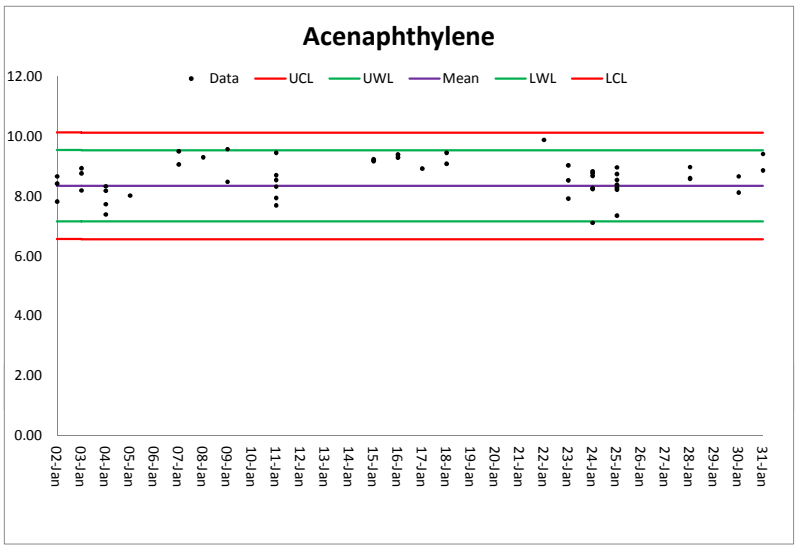


	Batch Stats	Target Value
Mean	1.865357143	
SD	0.11884236	
Std Conc	1.9	
RSD	6.37	10.00
% Bias	-1.82	20.00

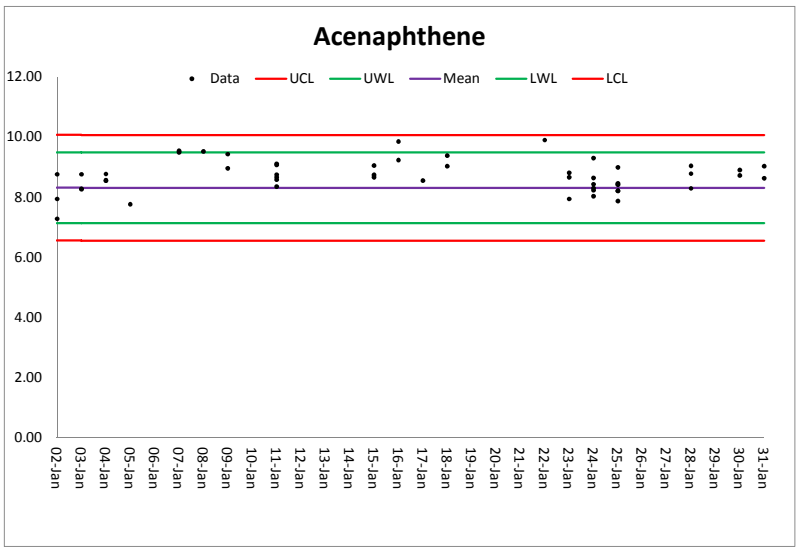
TM004: PAH - January 2013



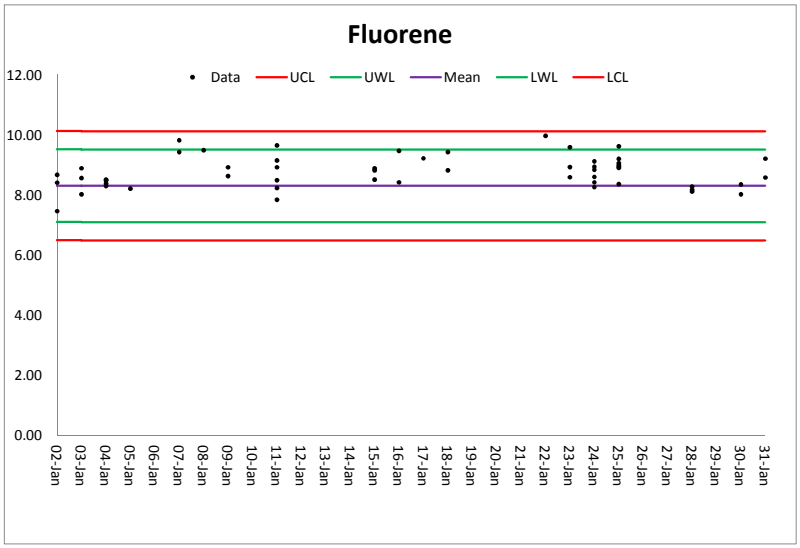
	Batch Stats	Target Value
Mean	8.783148148	
SD	0.512238241	
Std Conc	8	
RSD	5.83	15
% Bias	9.79	30



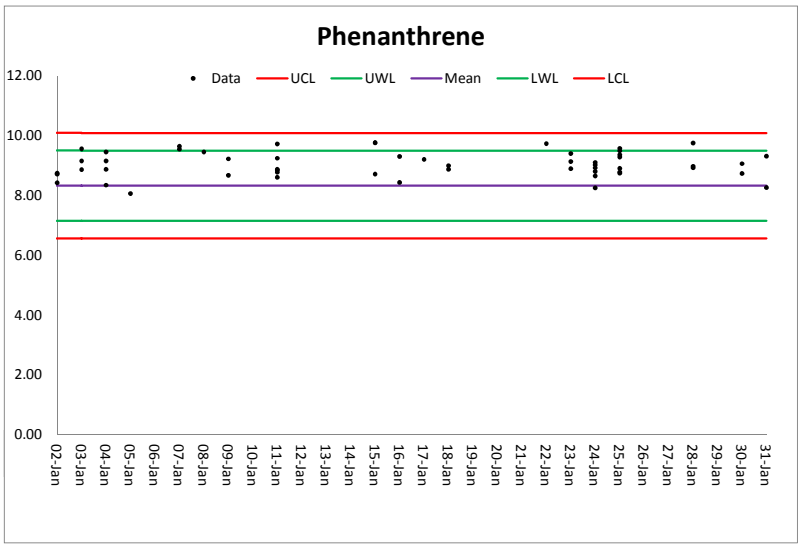
	Batch Stats	Target Value
Mean	8.623148148	
SD	0.605692568	
Std Conc	8	
RSD	7.02	15
% Bias	7.79	30



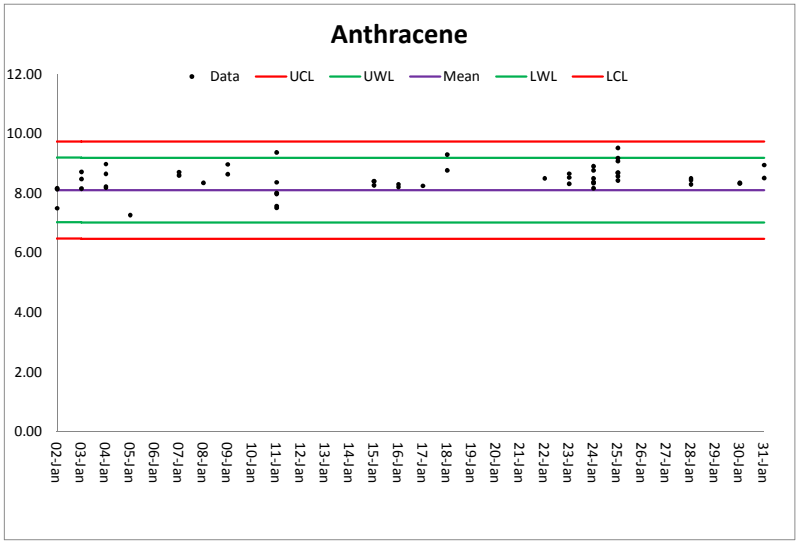
	Batch Stats	Target Value
Mean	8.696851852	
SD	0.523142984	
Std Conc	8	
RSD	6.02	15
% Bias	8.71	30



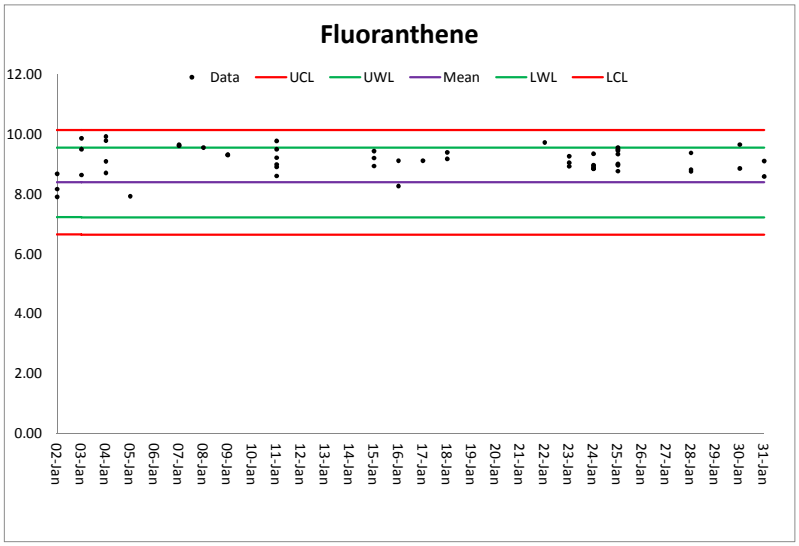
	Batch Stats	Target Value
Mean	8.770925926	
SD	0.530561356	
Std Conc	8	
RSD	6.05	15
% Bias	9.64	30



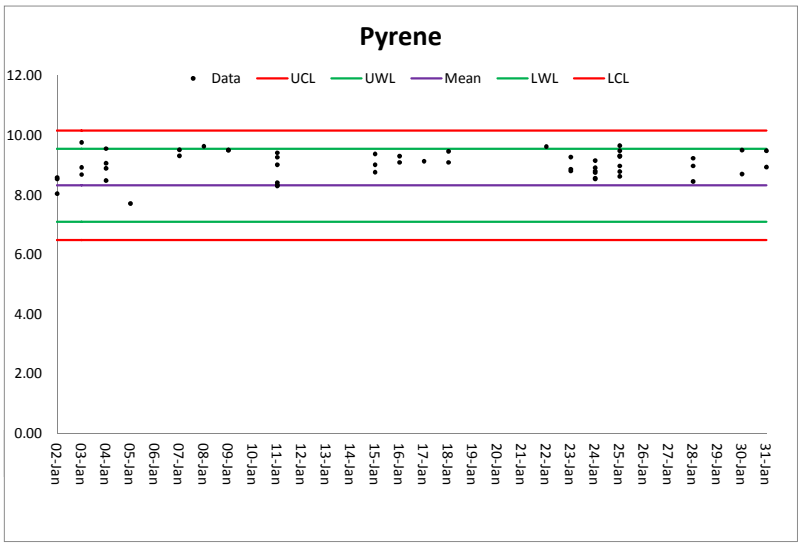
	Batch Stats	Target Value
Mean	9.045185185	
SD	0.425470841	
Std Conc	8	
RSD	4.70	15
% Bias	13.06	30



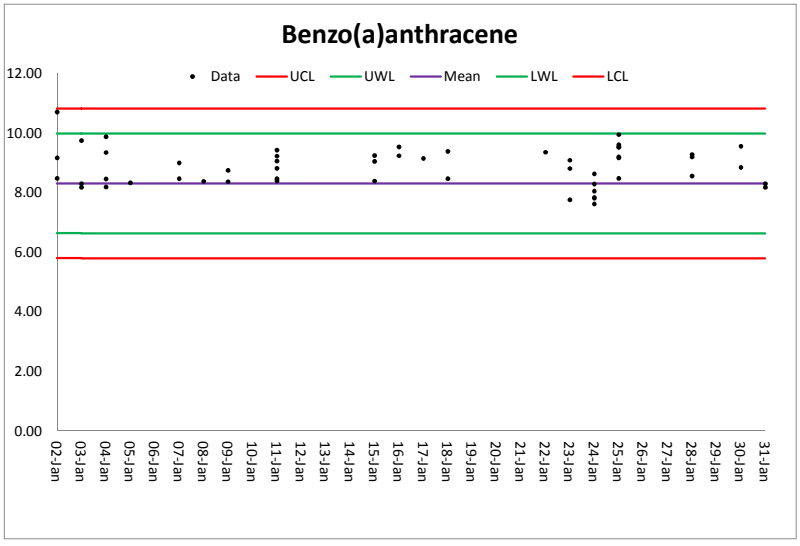
	Batch Stats	Target Value
Mean	8.464814815	
SD	0.44202681	
Std Conc	8	
RSD	5.22	15
% Bias	5.81	30



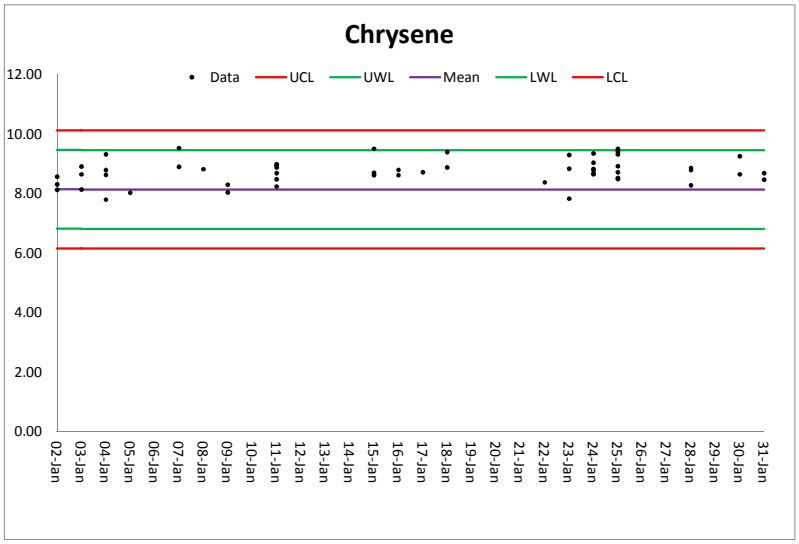
	Batch Stats	Target Value
Mean	9.120740741	
SD	0.459276921	
Std Conc	8	
RSD	5.04	15
% Bias	14.01	30



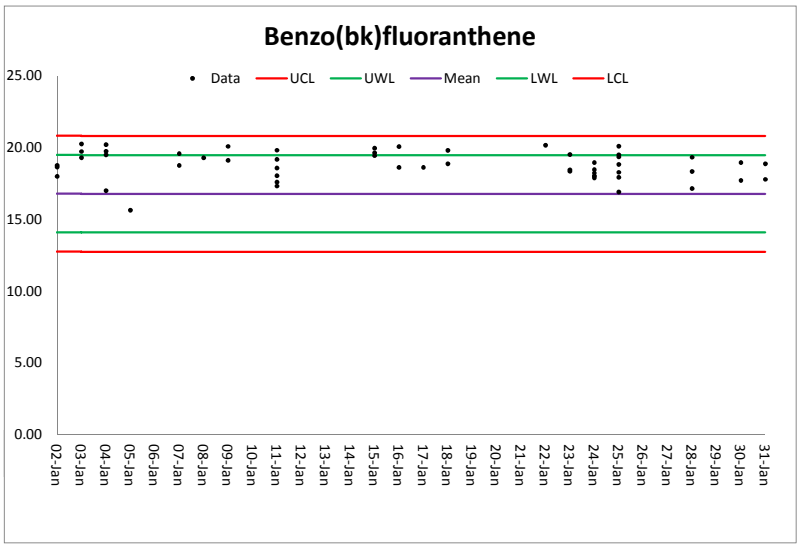
	Batch Stats	Target Value
Mean	9.013518519	
SD	0.446906167	
Std Conc	8	
RSD	4.96	15
% Bias	12.67	30



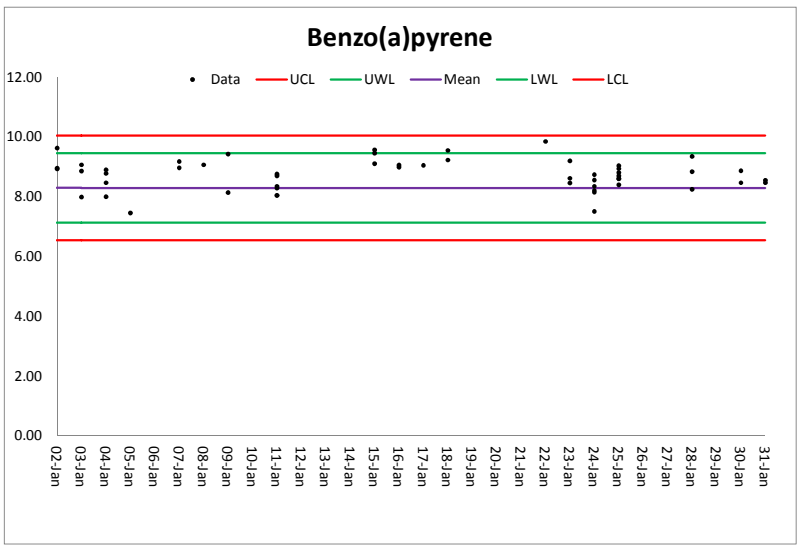
	Batch Stats	Target Value
Mean	8.867592593	
SD	0.634650209	
Std Conc	8	
RSD	7.16	15
% Bias	10.84	30



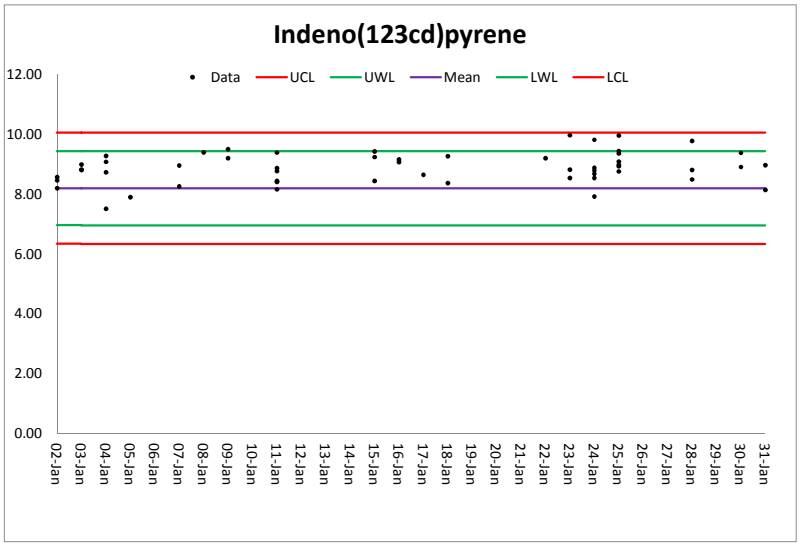
	Batch Stats	Target Value
Mean	8.73962963	
SD	0.422141722	
Std Conc	8	
RSD	4.83	15
% Bias	9.25	30



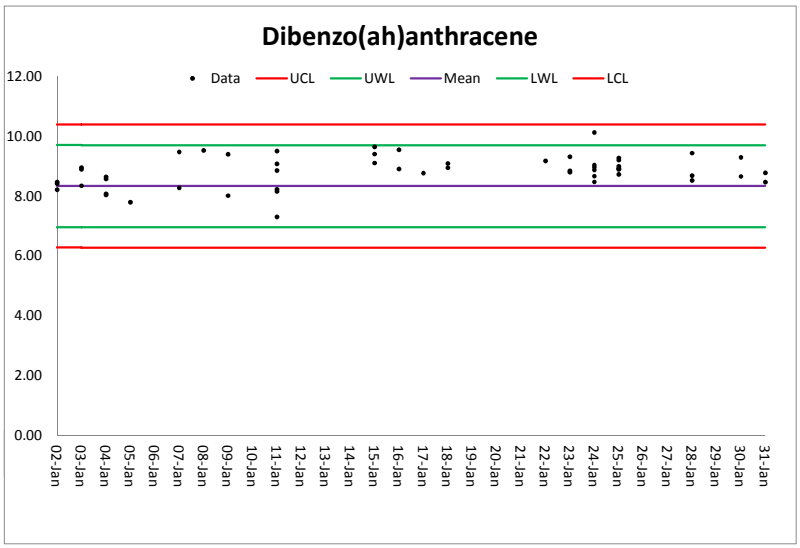
	Batch Stats	Target Value
Mean	18.795	
SD	0.98544837	
Std Conc	16	
RSD	5.24	15
% Bias	17.47	30



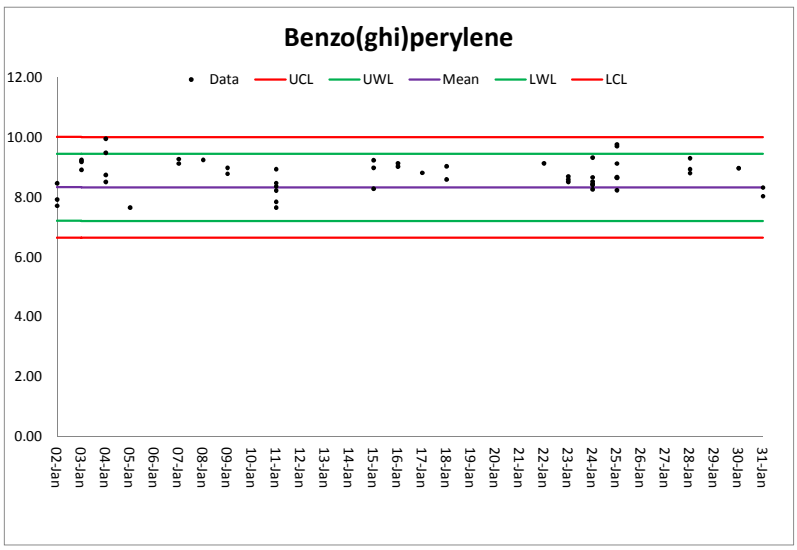
	Batch Stats	Target Value
Mean	9.033157895	
SD	0.544406431	
Std Conc	8	
RSD	6.03	15
% Bias	12.91	30



	Batch Stats	Target Value
Mean	8.88962963	
SD	0.519567901	
Std Conc	8	
RSD	5.84	15
% Bias	11.12	30

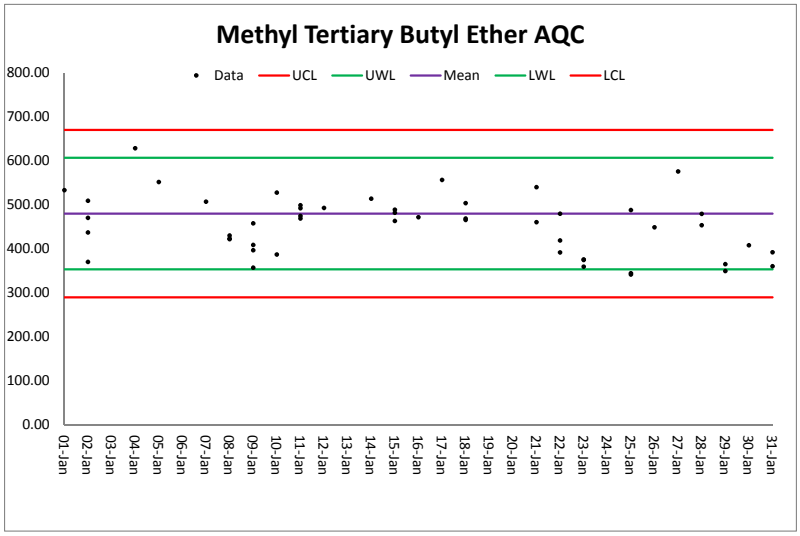


	Batch Stats	Target Value
Mean	8.822222222	
SD	0.520100377	
Std Conc	8	
RSD	5.90	15
% Bias	10.28	30

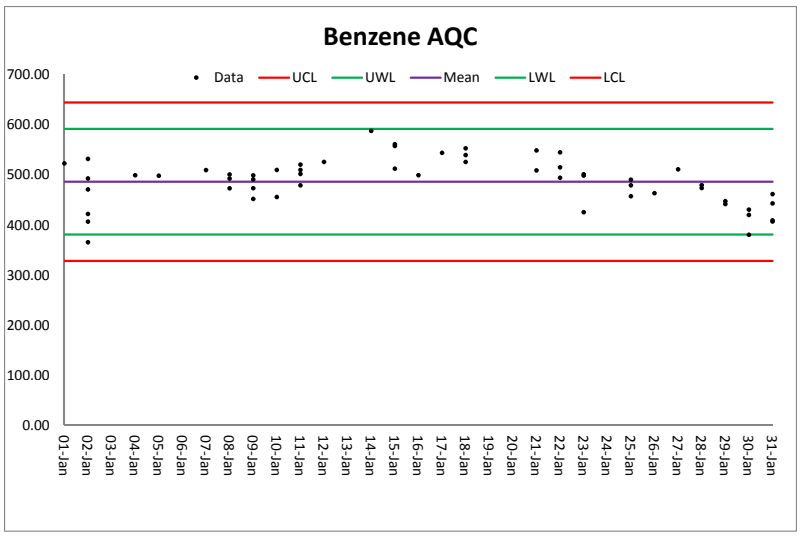


	Batch Stats	Target Value
Mean	8.746111111	
SD	0.51793646	
Std Conc	8	
RSD	5.92	15
% Bias	9.33	30

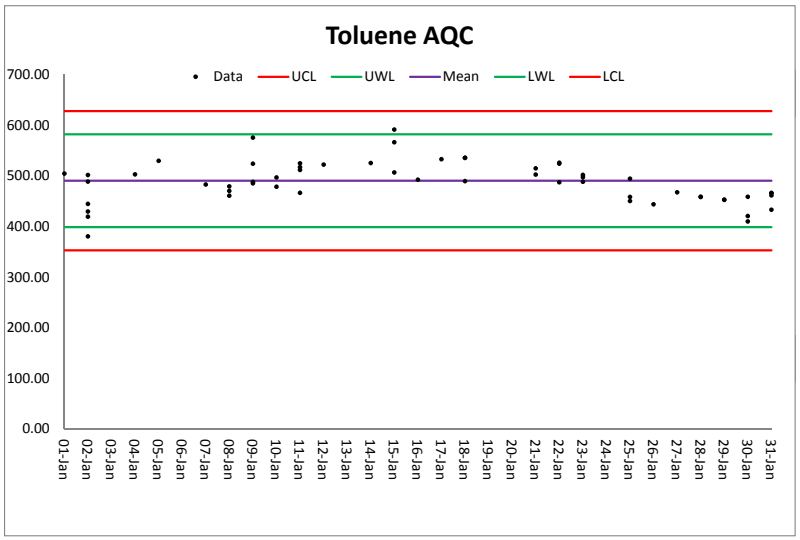
TM015: MBTEX - January 2013



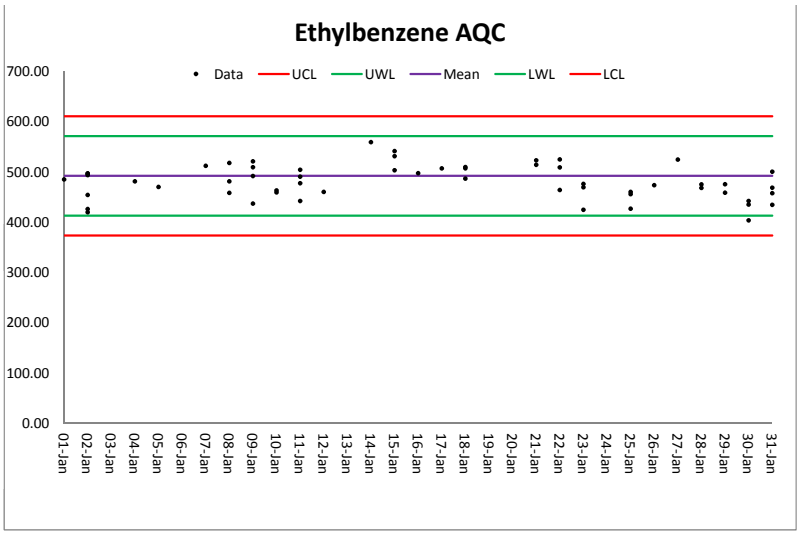
	Batch Stats	Target Value
Mean	452.8882353	
SD	66.52636929	
Std Conc	500	
RSD	14.69	15
% Bias	-9.42	30



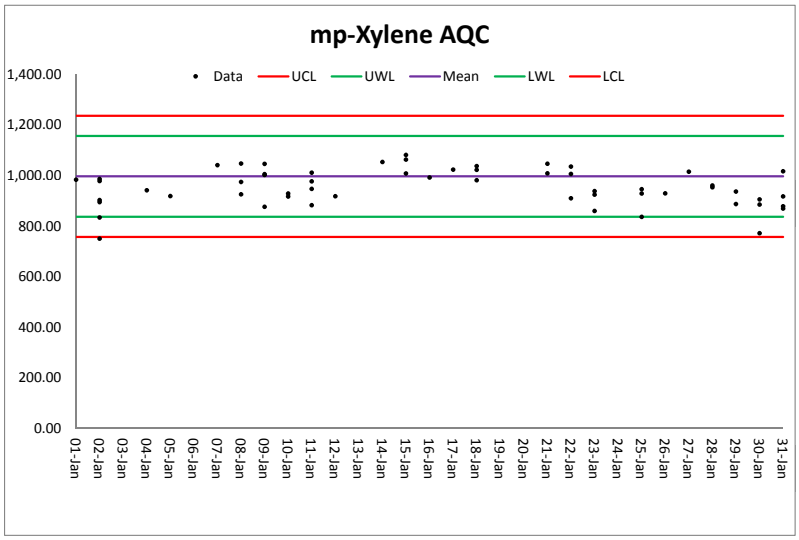
	Batch Stats	Target Value
Mean	486.8108772	
SD	46.83392438	
Std Conc	500	
RSD	9.62	15
% Bias	-2.64	30



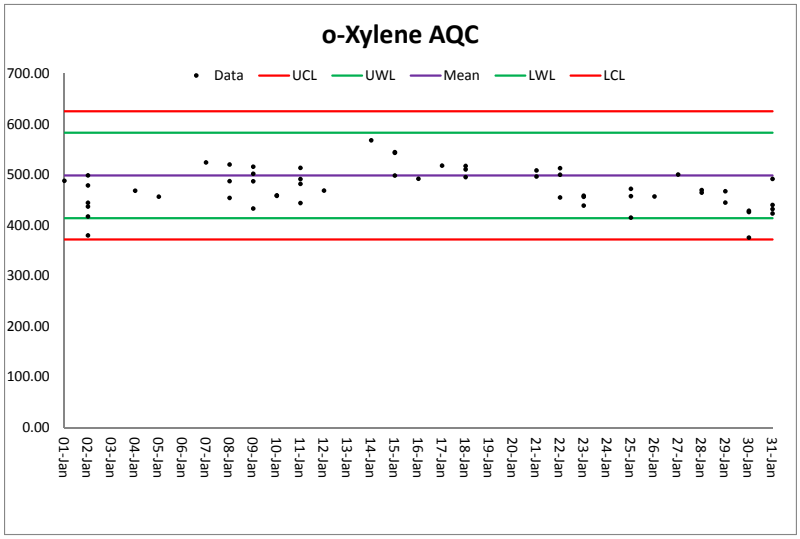
	Batch Stats	Target Value
Mean	487.3552632	
SD	40.76119124	
Std Conc	500	
RSD	8.36	15
% Bias	-2.53	30



	Batch Stats	Target Value
Mean	480.5278947	
SD	33.49849046	
Std Conc	500	
RSD	6.97	15
% Bias	-3.89	30

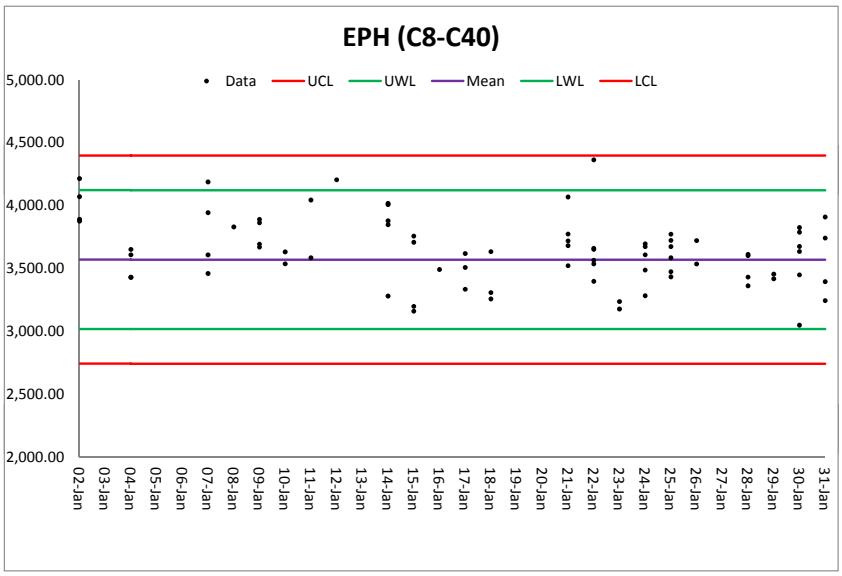


	Batch Stats	Target Value
Mean	953.4307018	
SD	71.90178122	
Std Conc	1000	
RSD	7.54	15
% Bias	-4.66	30



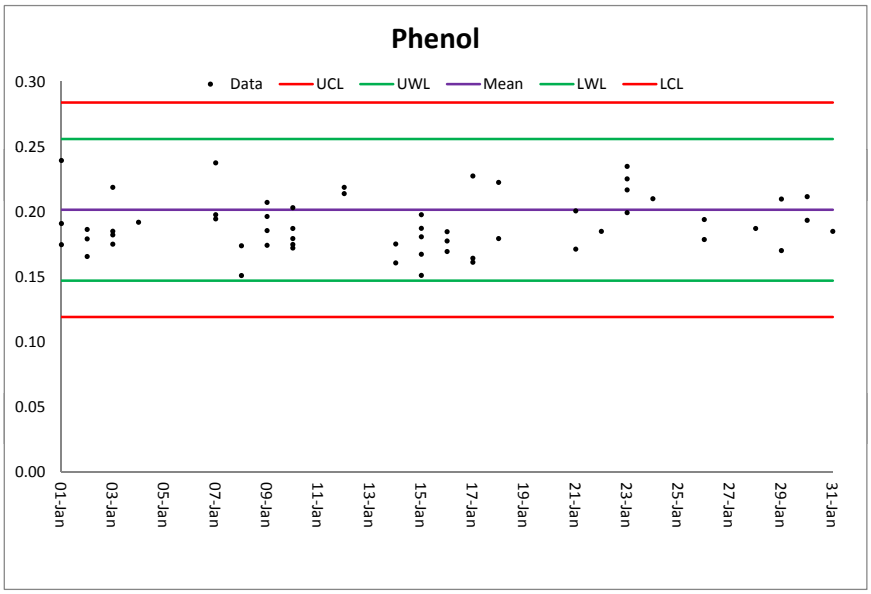
	BatchStats	Target Value
Mean	473.6561404	
SD	38.95712606	
Std Conc	500	
RSD	8.22	15
% Bias	-5.27	30

TM005: EPH - January 2013

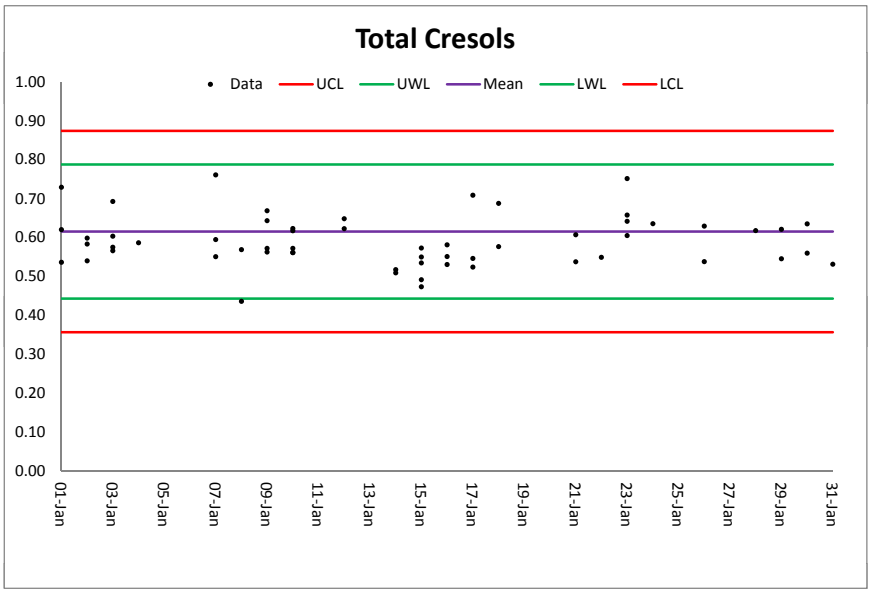


	Batch Stats	Target Value
Mean	3637.126625	
SD	265.3692423	
Std Conc	4000	
RSD	7.30	15
% Bias	-9.07	30

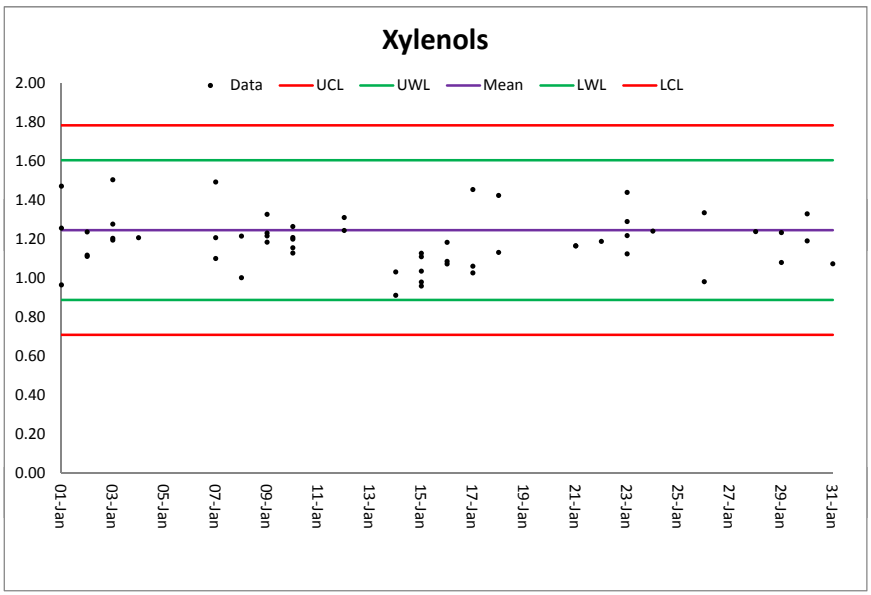
TM026: Phenols - January 2013



	Statistics	Target
MEAN	0.190325	
SD	0.021309	
VALUE	0.25	
RSD%	11.20	15
%BIAS	-23.87	30

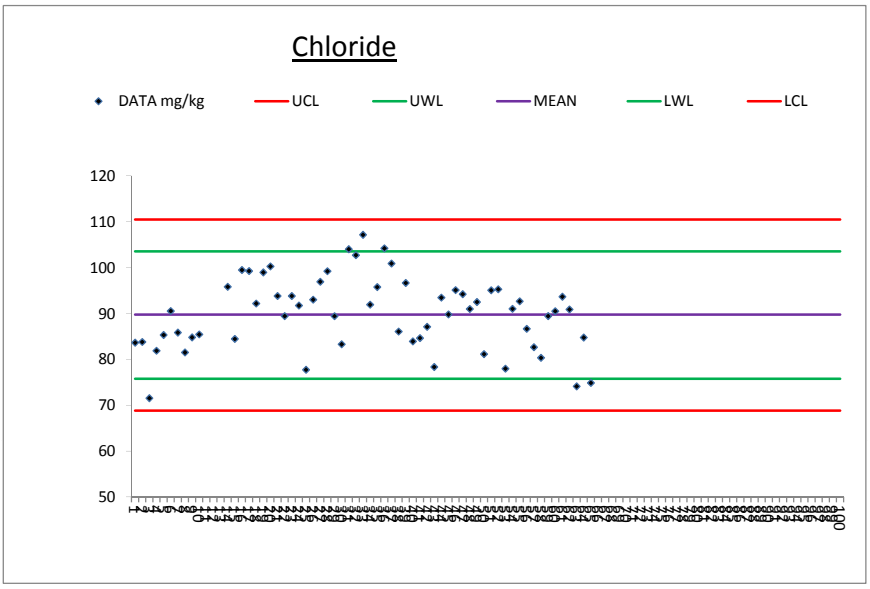


	Statistics	Target
MEAN	0.589865	
SD	0.064969	
VALUE	0.75	
RSD%	11.01	15
%BIAS	-21.35	30

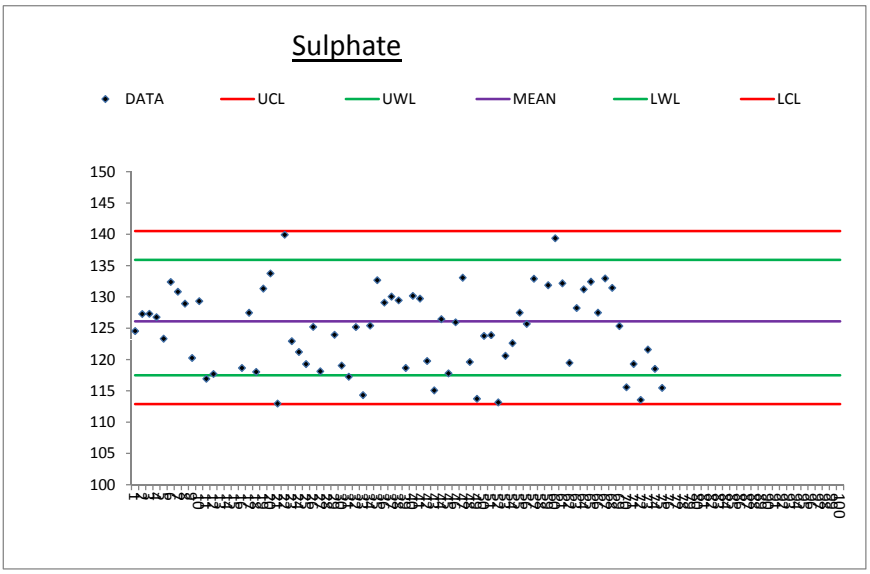


	Statistics	Target
MEAN	1.188844	
SD	0.13669	
VALUE	1.5	
RSD%	11.50	15
%BIAS	-20.74	30

TM038: Anions - January 2013

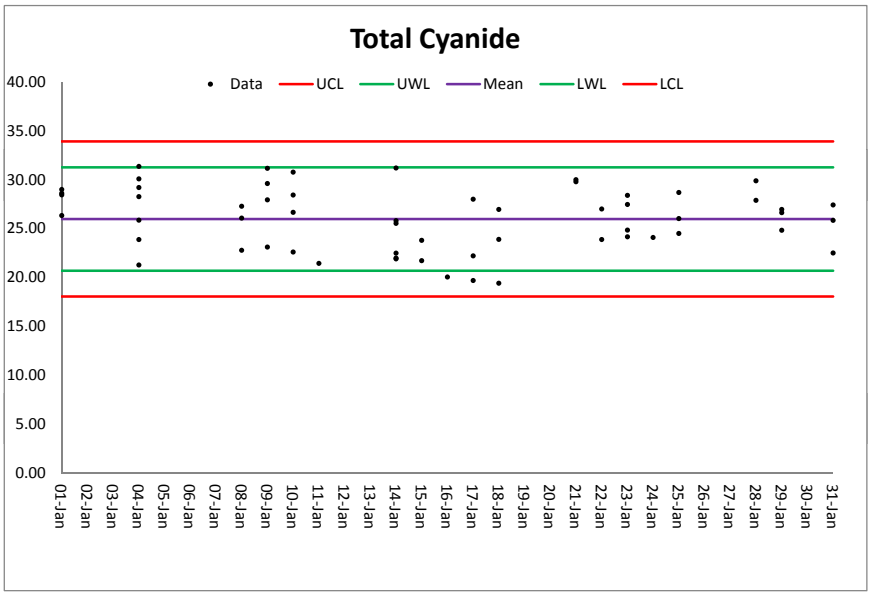


	Statistics	Target
MEAN	89.89806	
SD	7.844574	
VALUE	89.735	
RSD%	8.73	10
%BIAS	0.18	20



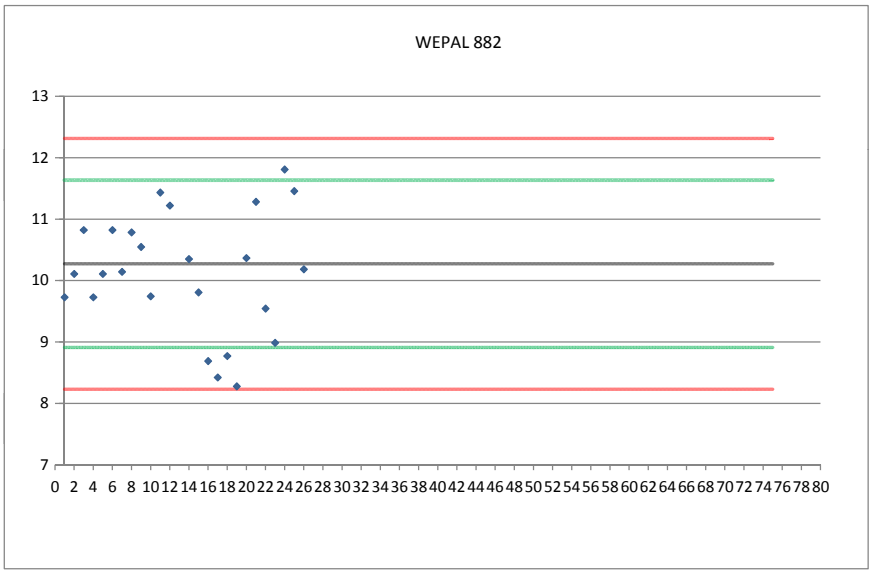
	Statistics	Target
MEAN	124.9899	
SD	7.532071	
VALUE	126.7	
RSD%	6.03	10
%BIAS	-1.35	20

TM089: Cyanide - January 2013



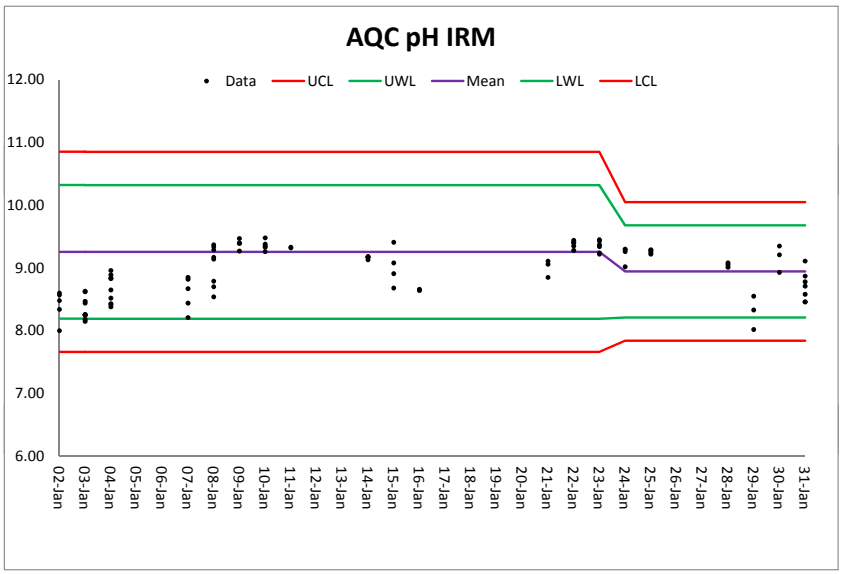
	Statistics	Target
MEAN	25.95878	
SD	3.163495	
VALUE	26.6	
RSD%	12.19	15
%BIAS	-2.41	30

TM022: Loss on Ignition - January 2013



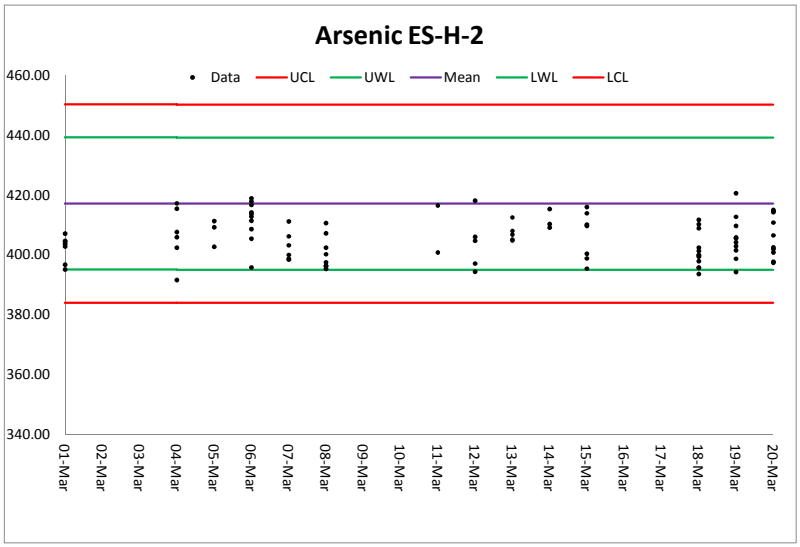
	Statistics	Target
MEAN	10.1259	
SD	0.978409	
VALUE	10.72	
RSD%	9.66	10
%BIAS	-5.54	20

TM073: pH - January 2013 **Note:** AQC Chart Limits re-assigned 24-01-2013

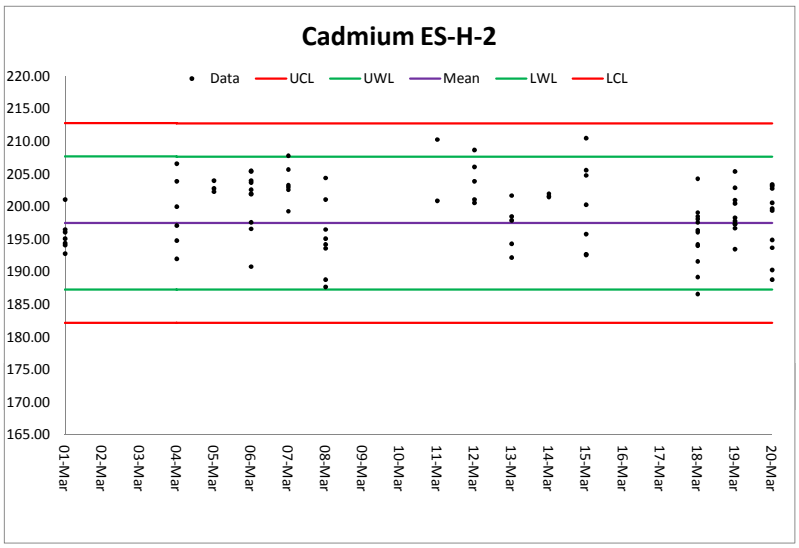


	Batch Stats	Target Value
Mean	8.925	
SD	0.410311046	
Std Conc	9.08	
RSD	4.60	10
% Bias	-1.71	20

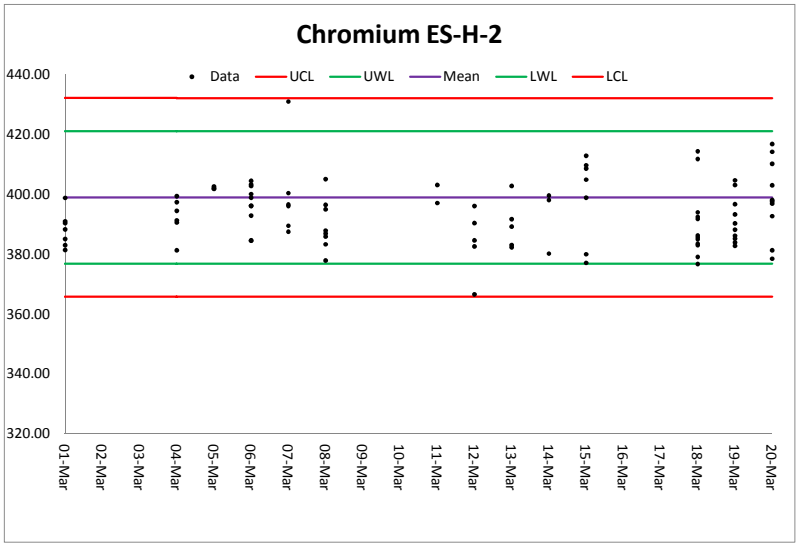
TM030: Metals - March 2013



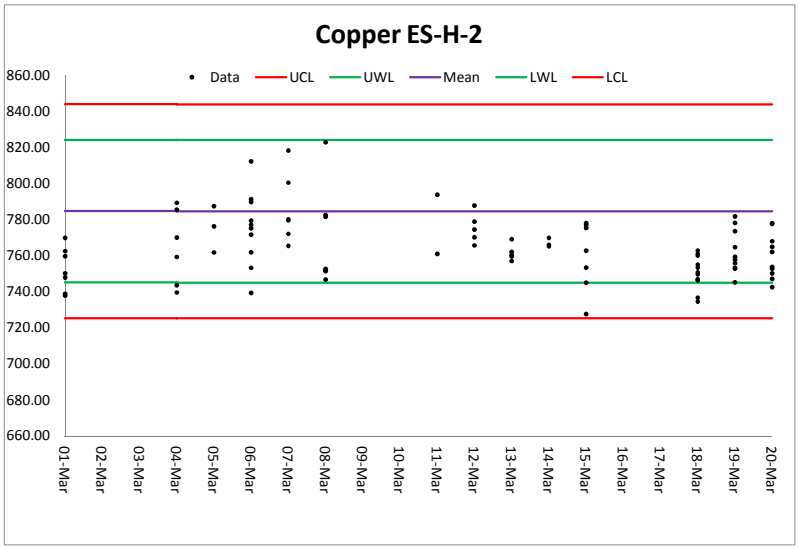
	Batch Stats	Target Value
Mean	405.3638298	
SD	7.09	
Std Conc	404	
RSD	1.75	7.50
% Bias	0.34	15.00



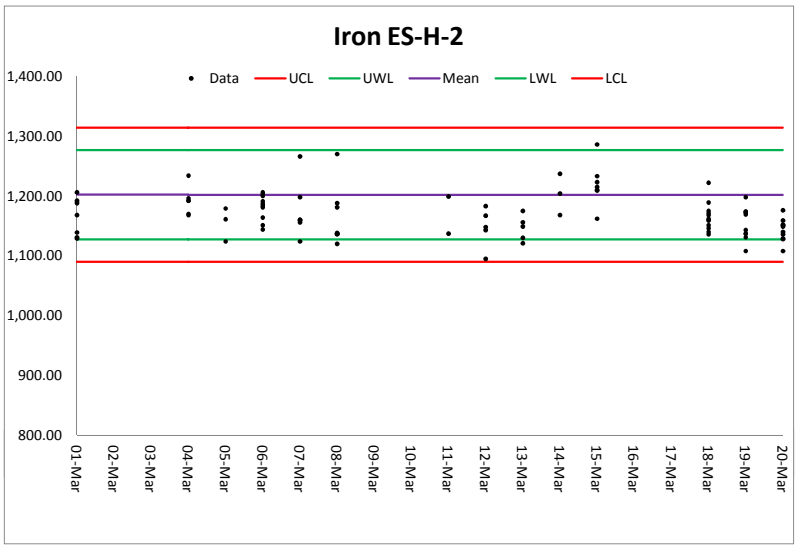
	Batch Stats	Target Value
Mean	198.9755319	
SD	5.24	
Std Conc	200	
RSD	2.64	7.50
% Bias	-0.51	15.00



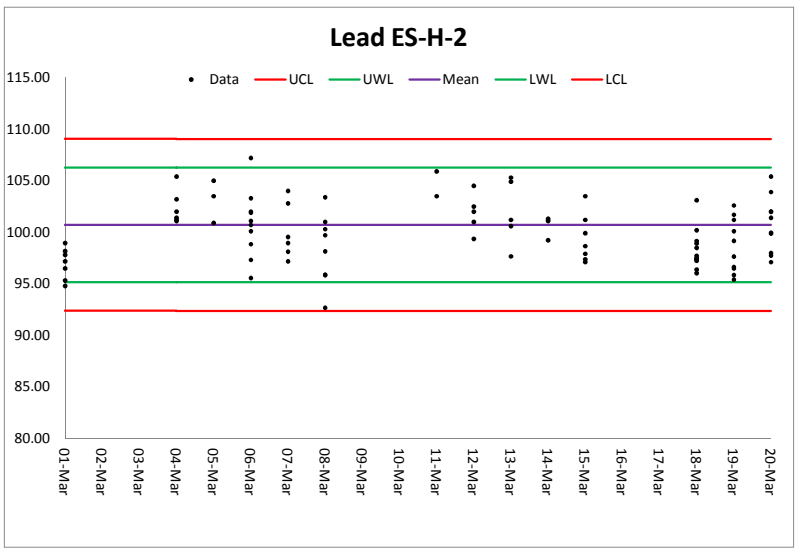
	Batch Stats	Target Value
Mean	393.5053191	
SD	10.70211884	
Std Conc	401	
RSD	2.72	7.50
% Bias	-1.87	15.00



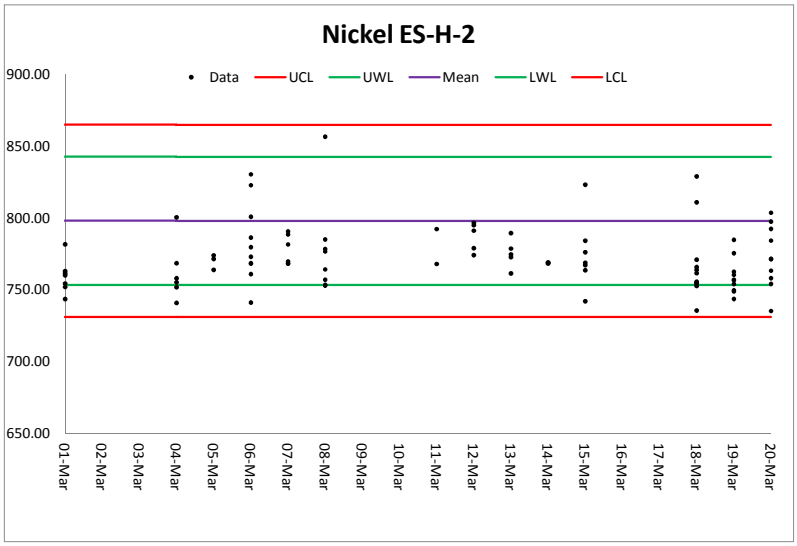
	Batch Stats	Target Value
Mean	764.6106383	
SD	17.92112629	
Std Conc	781	
RSD	2.34	7.50
% Bias	-2.10	15.00



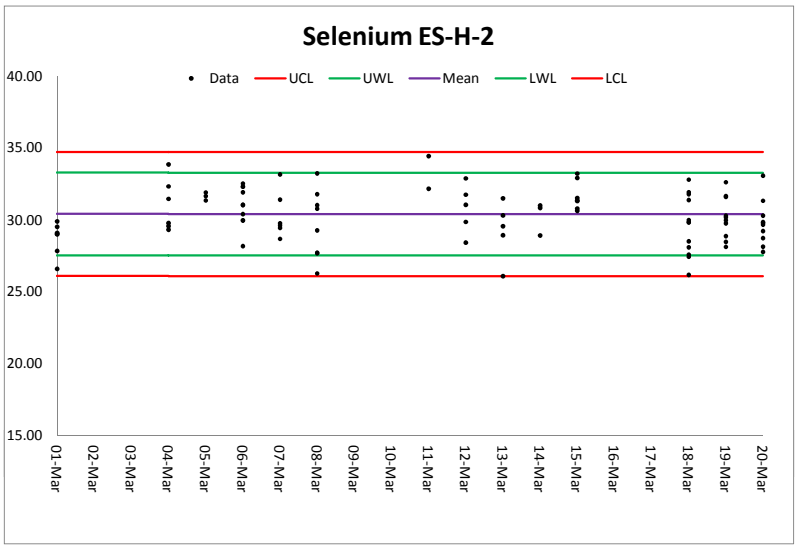
	Batch Stats	Target Value
Mean	1168.617021	
SD	35.93934747	
Std Conc	1170	
RSD	3.08	7.50
% Bias	-0.12	15.00



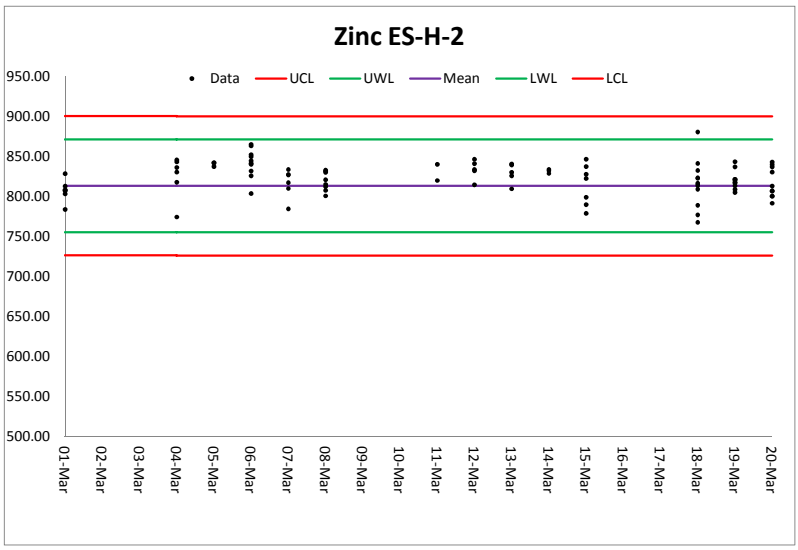
	Batch Stats	Target Value
Mean	99.97053191	
SD	2.95074562	
Std Conc	102	
RSD	2.95	7.50
% Bias	-1.99	15.00



	Batch Stats	Target Value
Mean	772.1521277	
SD	21.61612167	
Std Conc	789	
RSD	2.80	7.50
% Bias	-2.14	15.00

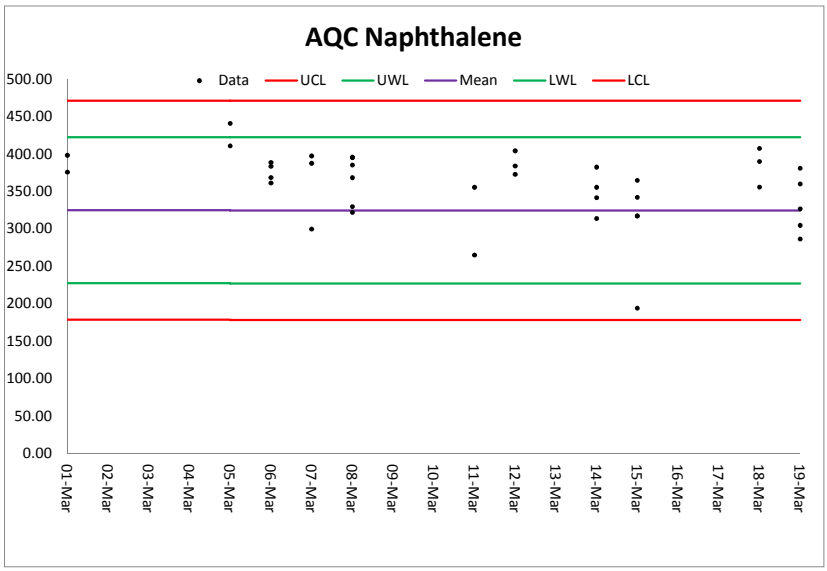


	Batch Stats	Target Value
Mean	30.2756383	
SD	1.805134587	
Std Conc	30	
RSD	5.96	7.50
% Bias	0.92	15.00

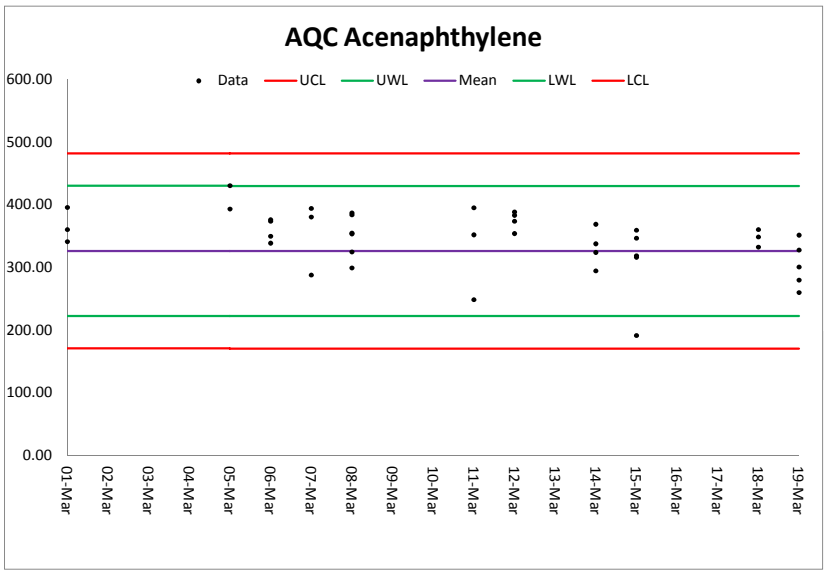


	Batch Stats	Target Value
Mean	822.6255319	
SD	20.48451782	
Std Conc	800	
RSD	2.49	7.50
% Bias	2.83	15.00

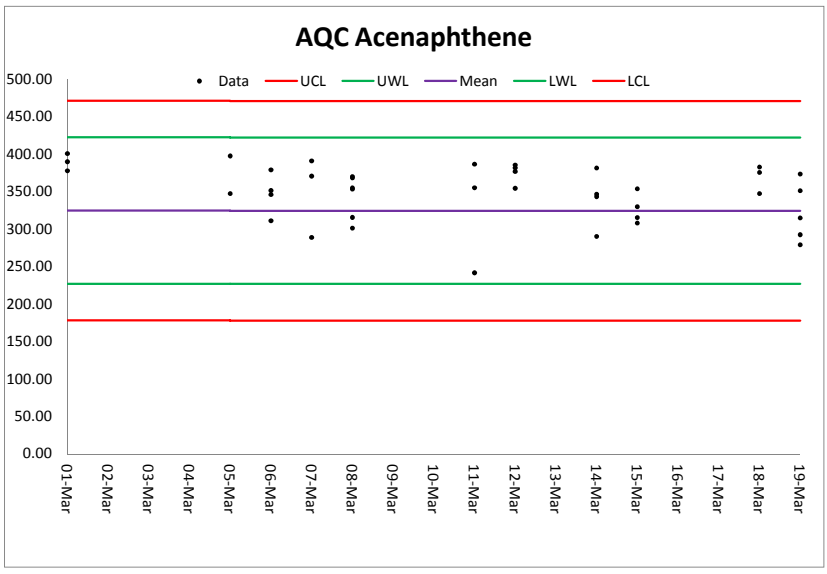
TM004: PAH - March 2013



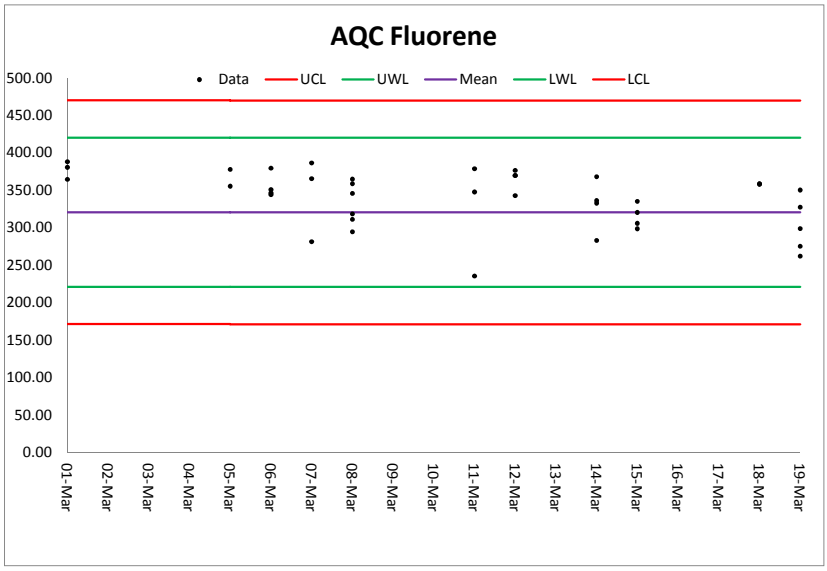
	Batch Stats	Target Value
Mean	357.3371795	
SD	46.65459372	
Std Conc	400	
RSD	13.06	20
% Bias	-10.67	40



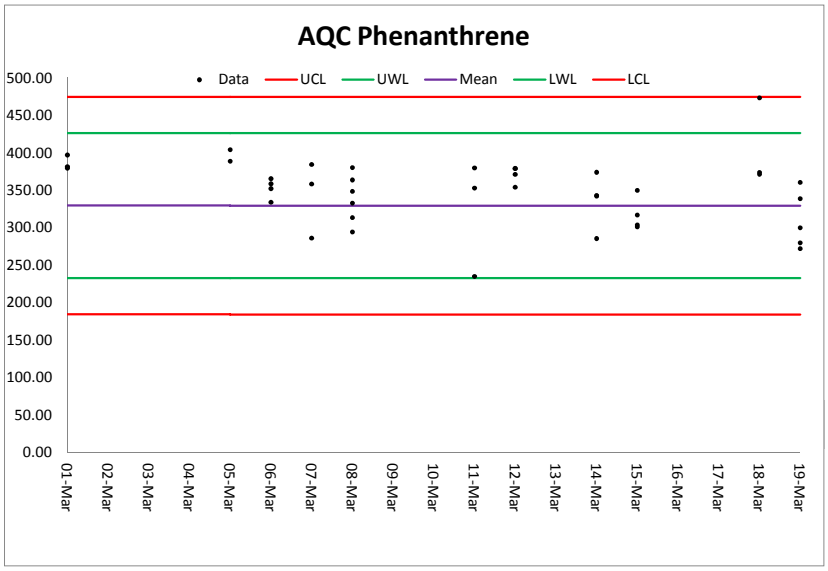
	Batch Stats	Target Value
Mean	344.1188095	
SD	45.90387062	
Std Conc	400	
RSD	13.34	20
% Bias	-13.97	40



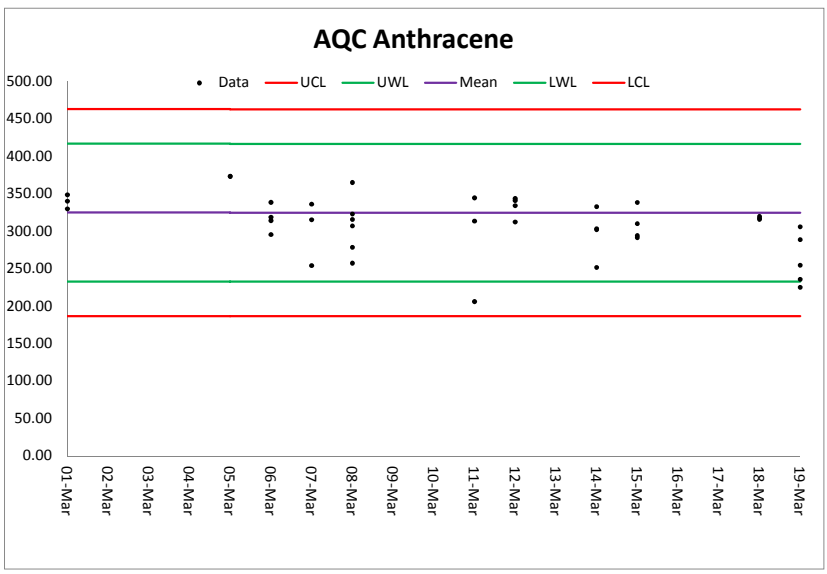
	Batch Stats	Target Value
Mean	348.7085366	
SD	37.29824108	
Std Conc	400	
RSD	10.70	20
% Bias	-12.82	40



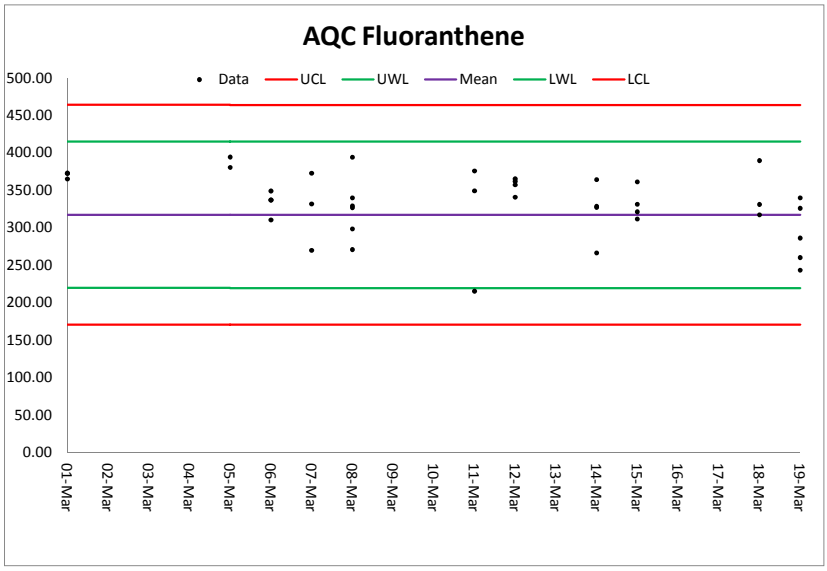
	Batch Stats	Target Value
Mean	339.3609756	
SD	37.00813247	
Std Conc	400	
RSD	10.91	20
% Bias	-15.16	40



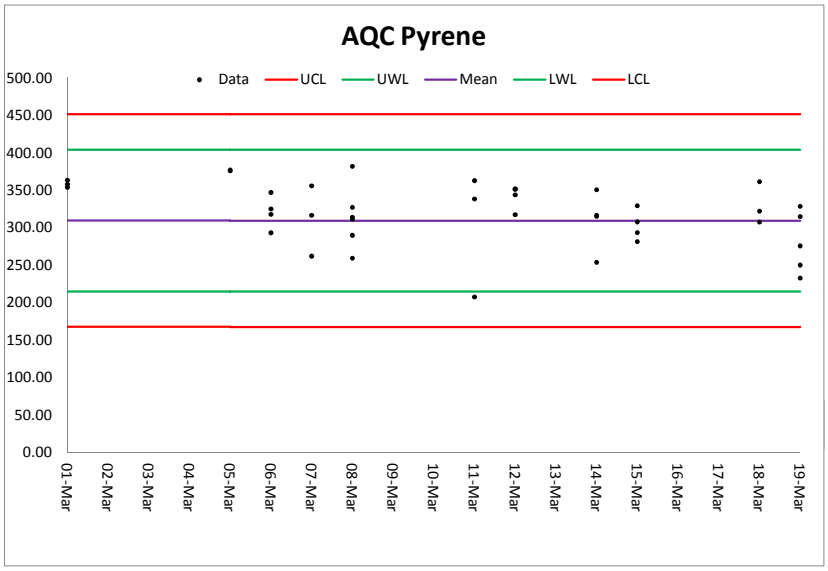
	Batch Stats	Target Value
Mean	348.2802439	
SD	43.79118447	
Std Conc	400	
RSD	12.57	20
% Bias	-12.93	40



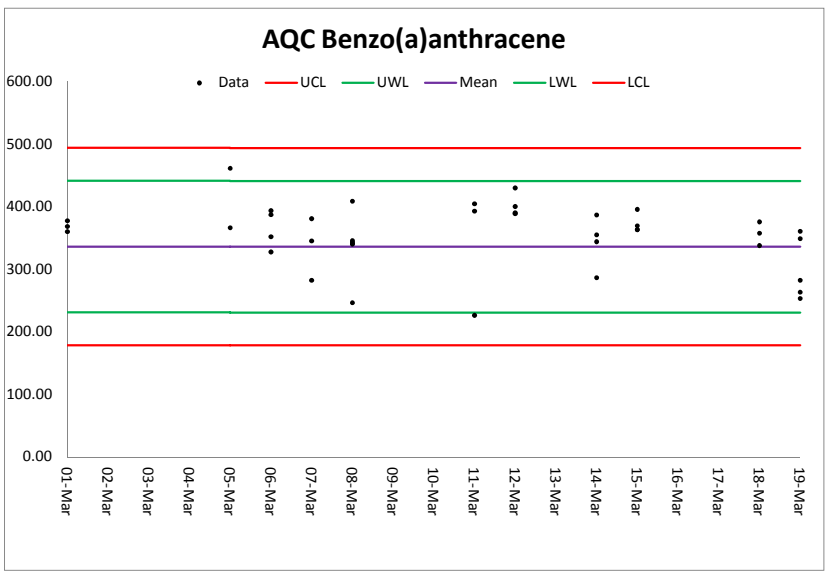
	Batch Stats	Target Value
Mean	308.9919512	
SD	38.48371618	
Std Conc	400	
RSD	12.45	20
% Bias	-22.75	40



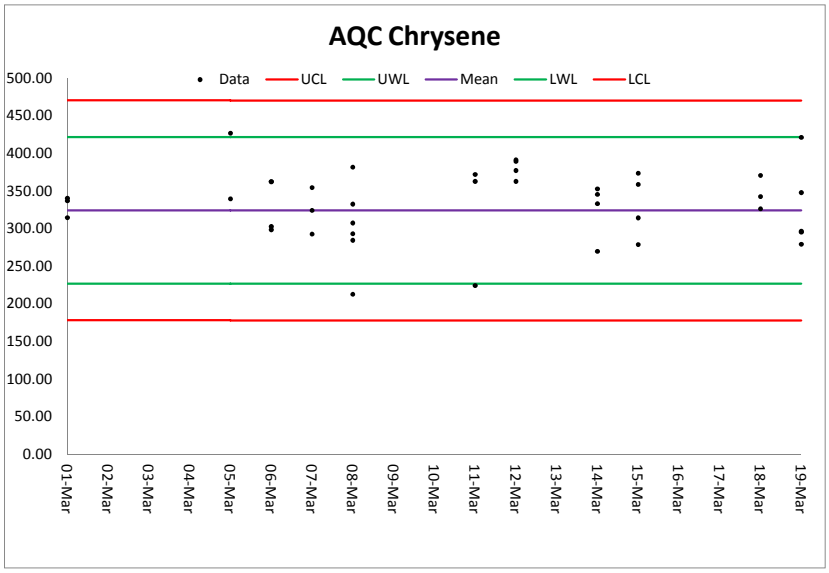
	Batch Stats	Target Value
Mean	332.4936585	
SD	41.78214013	
Std Conc	400	
RSD	12.57	20
% Bias	-16.88	40



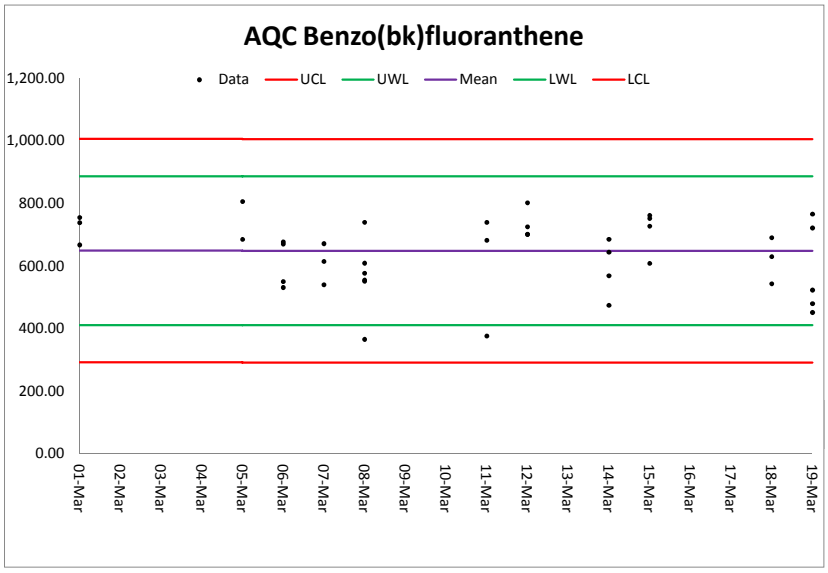
	Batch Stats	Target Value
Mean	318.63	
SD	40.93749388	
Std Conc	400	
RSD	12.85	20
% Bias	-20.34	40



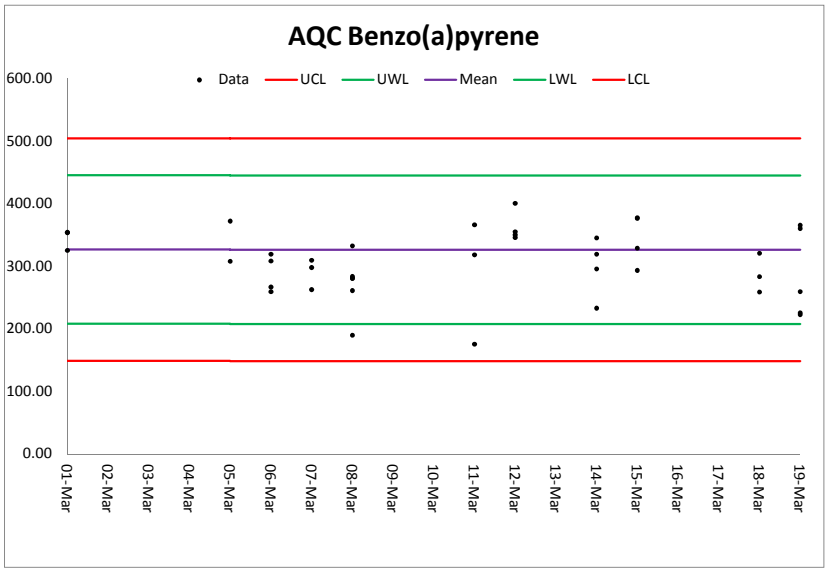
	Batch Stats	Target Value
Mean	353.8402439	
SD	49.94554752	
Std Conc	400	
RSD	14.12	20
% Bias	-11.54	40



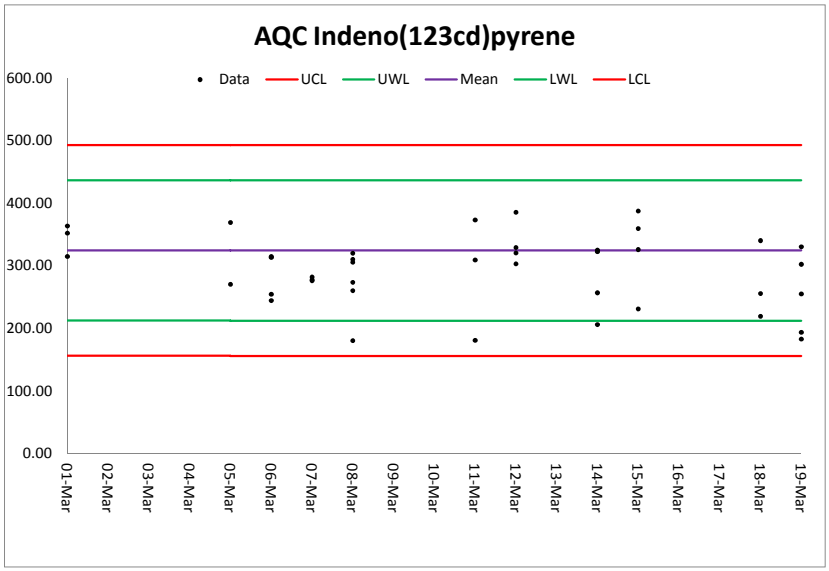
	Batch Stats	Target Value
Mean	333.2612195	
SD	46.28837987	
Std Conc	400	
RSD	13.89	20
% Bias	-16.68	40



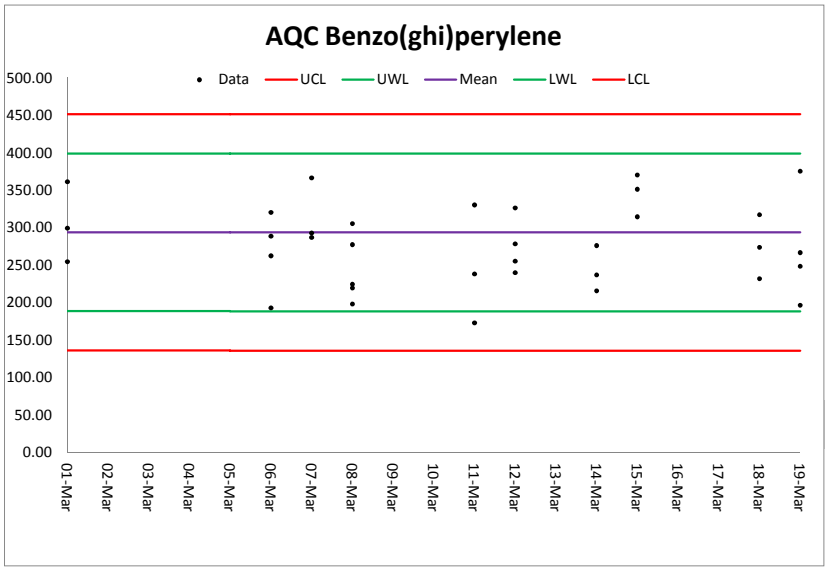
	Batch Stats	Target Value
Mean	635.9531707	
SD	111.1236025	
Std Conc	800	
RSD	17.47	20
% Bias	-20.51	40



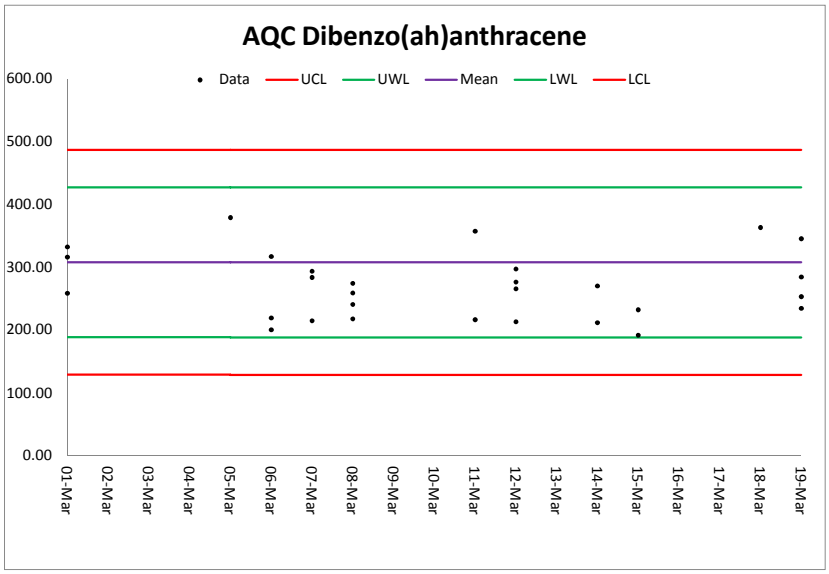
	Batch Stats	Target Value
Mean	306.0356098	
SD	52.88398269	
Std Conc	400	
RSD	17.28	20
% Bias	-23.49	40



	Batch Stats	Target Value
Mean	292.4256098	
SD	56.76998115	
Std Conc	400	
RSD	19.41	20
% Bias	-26.89	40

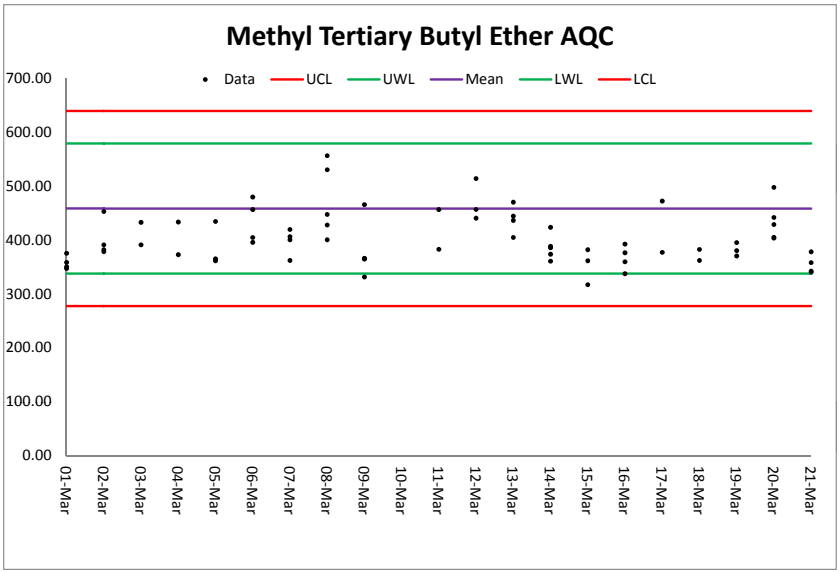


	Batch Stats	Target Value
Mean	276.7442857	
SD	54.24194797	
Std Conc	400	
RSD	19.60	20
% Bias	-30.81	40

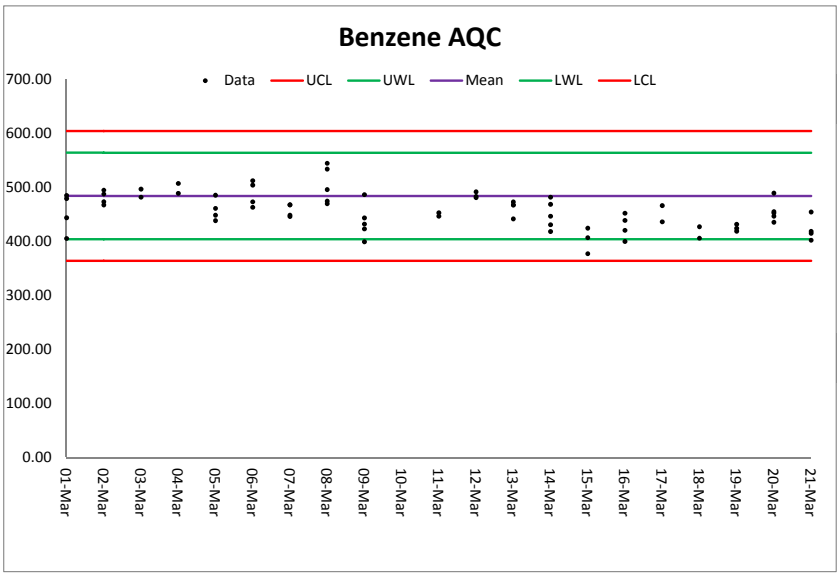


	Batch Stats	Target Value
Mean	269.8268966	
SD	52.33137731	
Std Conc	400	
RSD	19.39	20
% Bias	-32.54	40

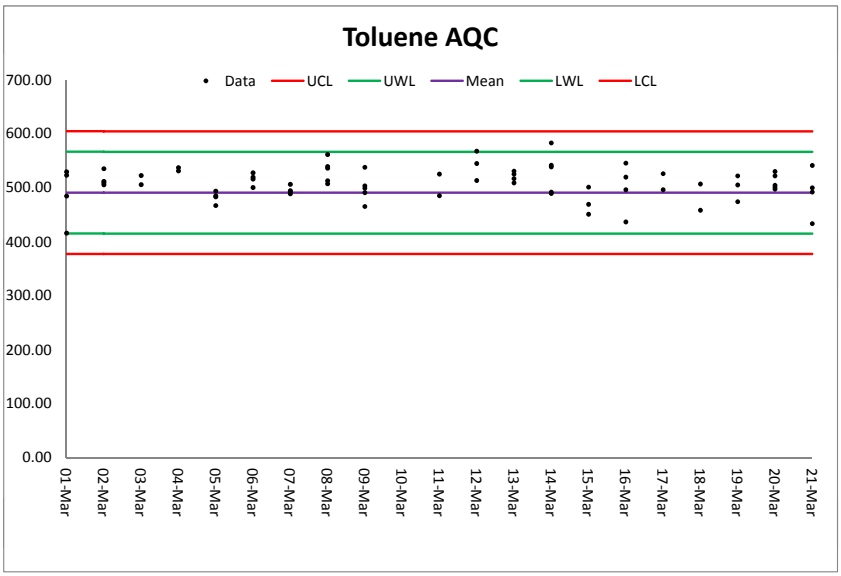
TM015: MBTEX - March 2013



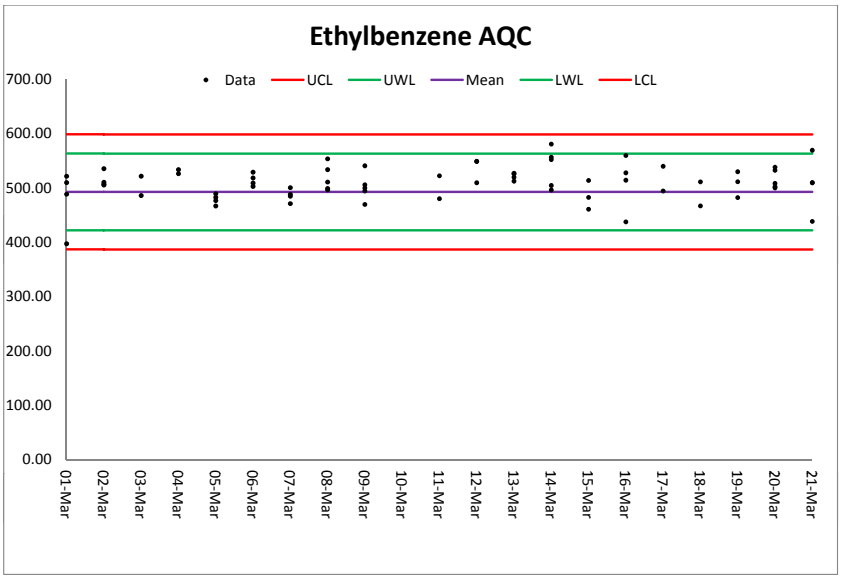
	Batch Stats	Target Value
Mean	402.4428169	
SD	48.59732248	
Std Conc	500	
RSD	12.08	20
% Bias	-19.51	40



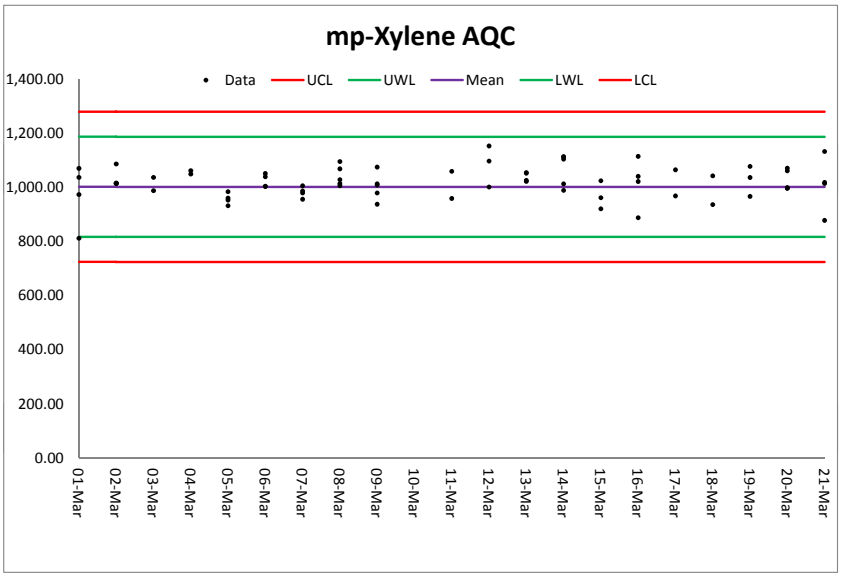
	Batch Stats	Target Value
Mean	456.6405634	
SD	33.36629197	
Std Conc	500	
RSD	7.31	20
% Bias	-8.67	40



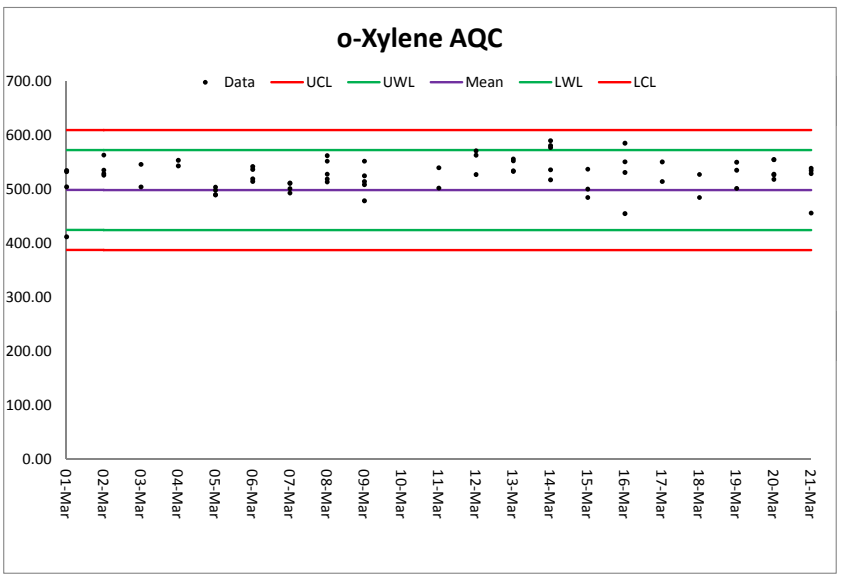
	Batch Stats	Target Value
Mean	507.7138028	
SD	29.99382276	
Std Conc	500	
RSD	5.91	20
% Bias	1.54	40



	Batch Stats	Target Value
Mean	508.5683099	
SD	31.10942186	
Std Conc	500	
RSD	6.12	20
% Bias	1.71	40

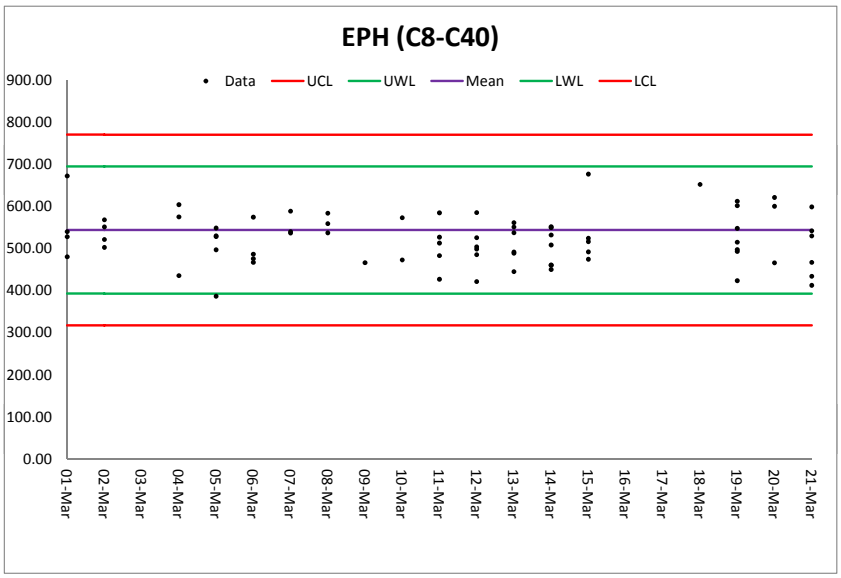


	Batch Stats	Target Value
Mean	1017.884225	
SD	60.51908227	
Std Conc	1000	
RSD	5.95	20
% Bias	1.79	40



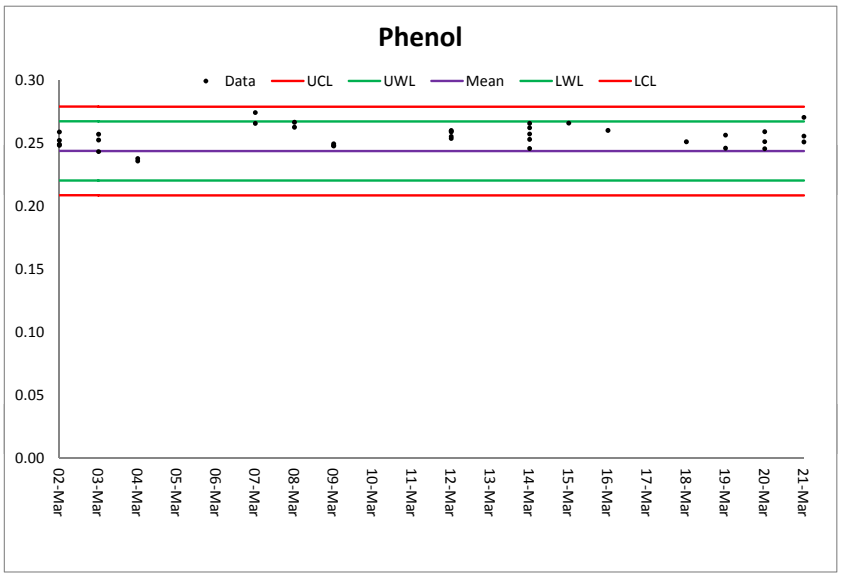
	Batch Stats	Target Value
Mean	526.5143662	
SD	31.0113656	
Std Conc	500	
RSD	5.89	20
% Bias	5.30	40

TM005: EPH - March 2013

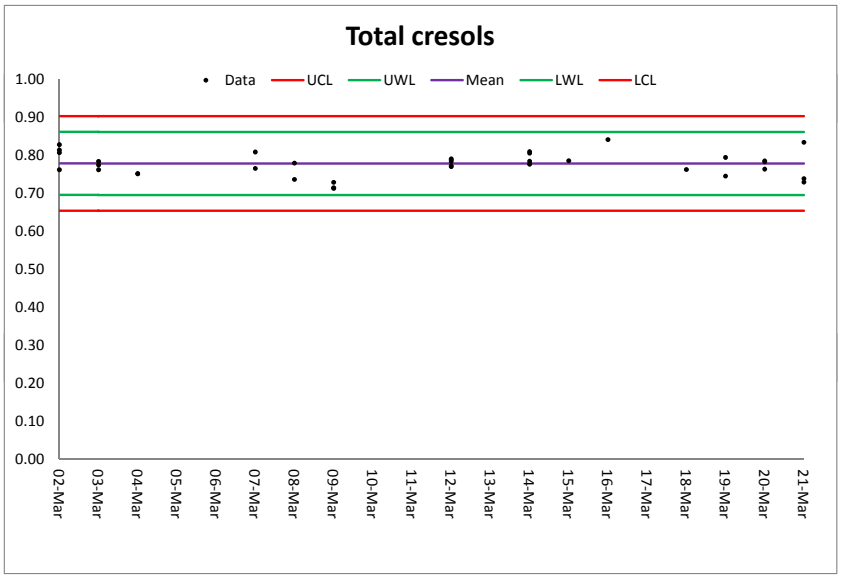


	Batch Stats	Target Value
Mean	522.4598667	
SD	60.14183716	
Std Conc	567	
RSD	11.51	20
% Bias	-7.86	40

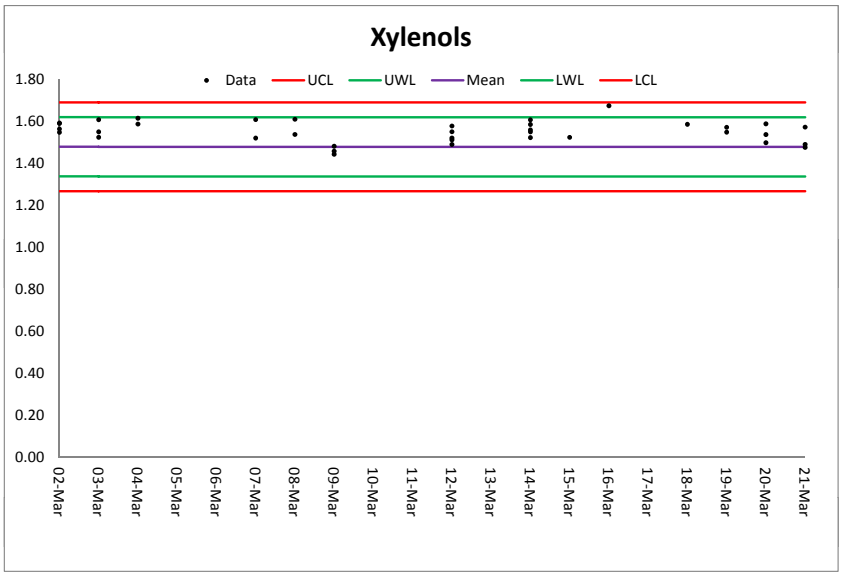
TM026: Phenols - March 2013



	Batch Stats	Target Value
Mean	0.254867568	
SD	0.008610106	
Std Conc	0.25	
RSD	3.38	10
% Bias	1.95	20

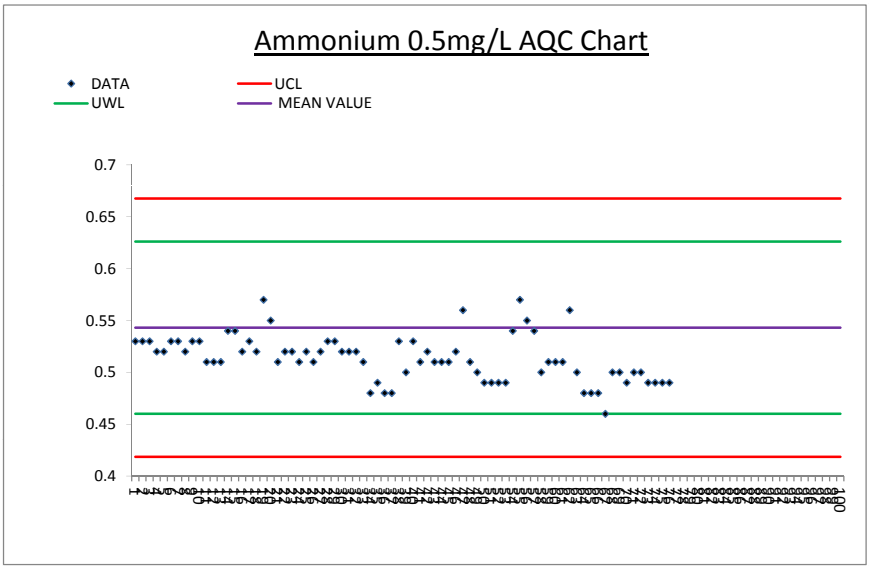


	Batch Stats	Target Value
Mean	0.776132432	
SD	0.031241675	
Std Conc	0.75	
RSD	4.03	10
% Bias	3.48	20

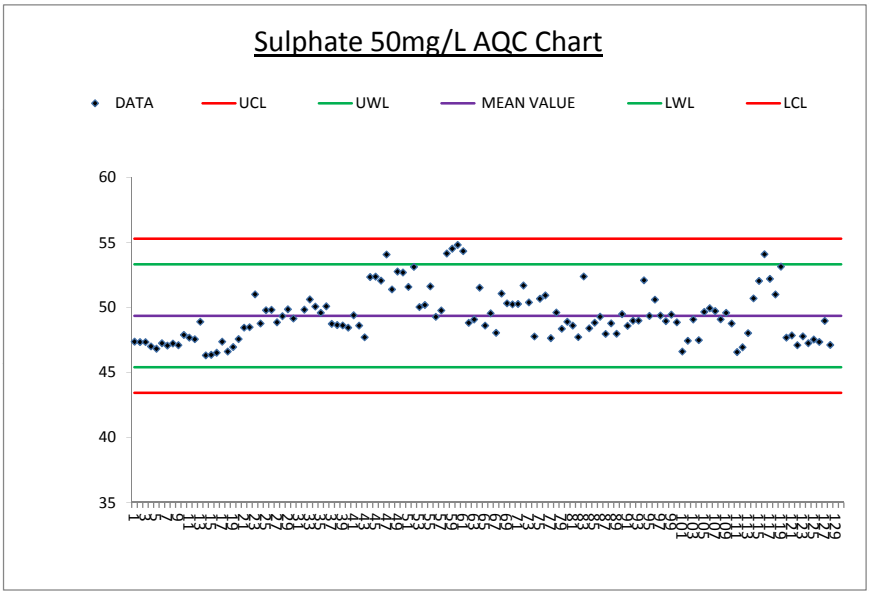


	Batch Stats	Target Value
Mean	1.551013514	
SD	0.04985323	
Std Conc	1.5	
RSD	3.21	10
% Bias	3.40	20

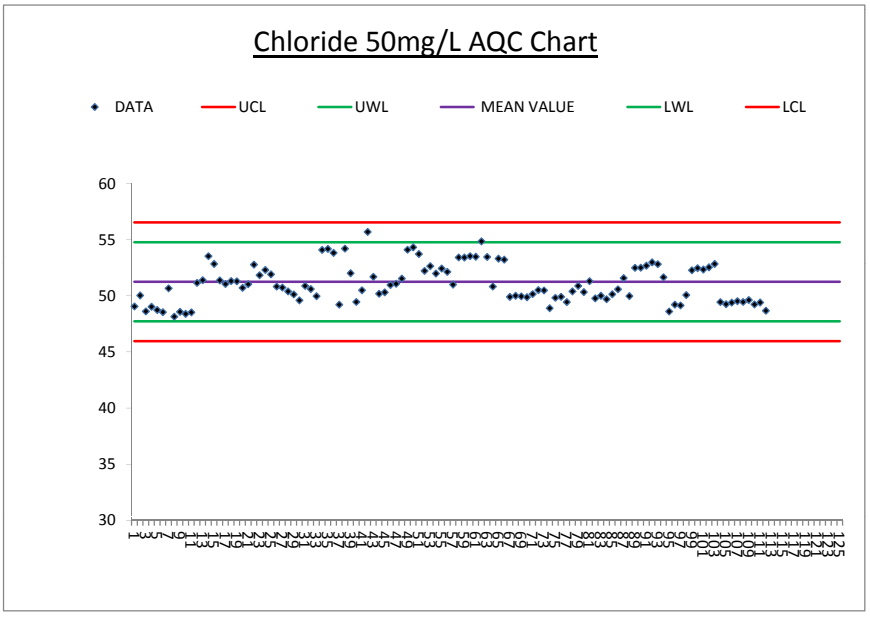
TM038: Anions - March 2013



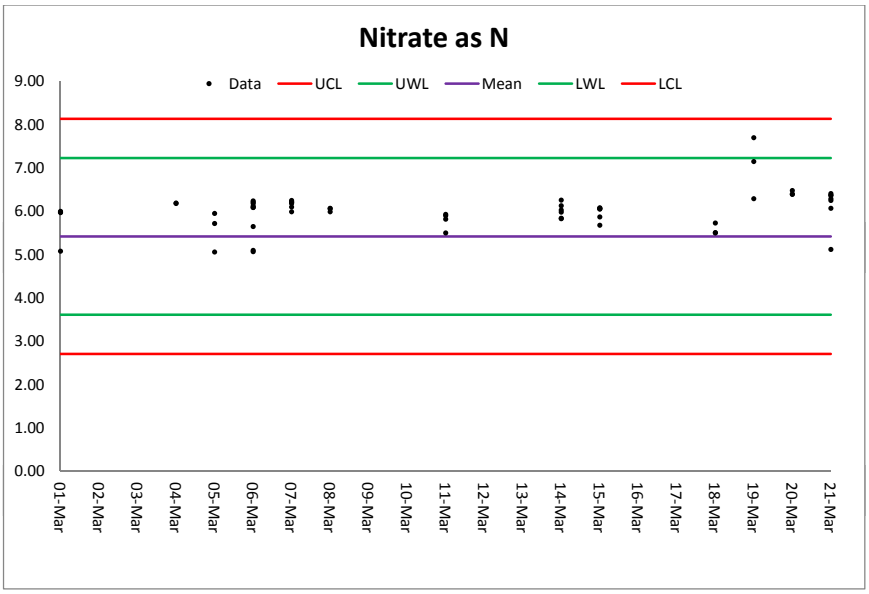
	Statistics	Target
MEAN	0.513816	
SD	0.022149	
VALUE	0.5	
RSD%	4.31	10
%BIAS	2.76	20



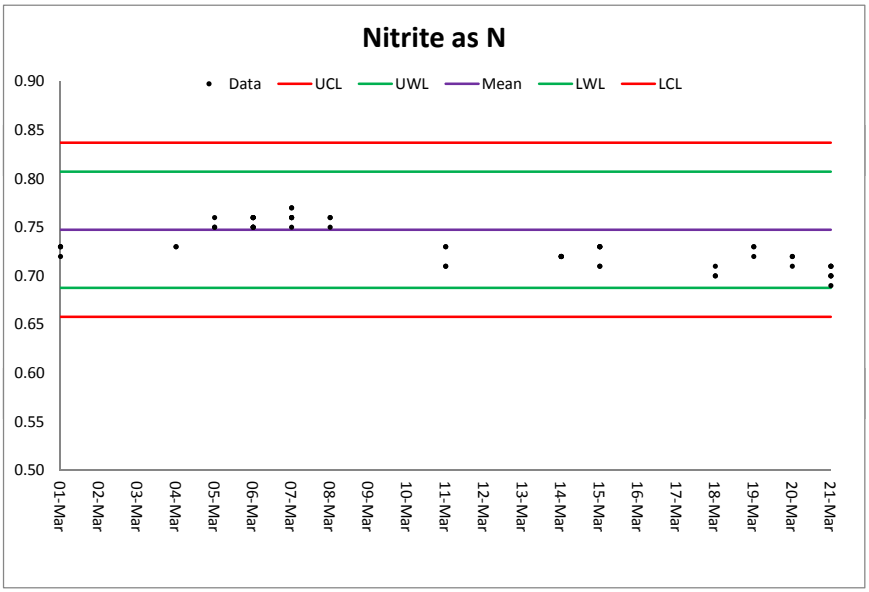
	Statistics	Target
MEAN	49.35574	
SD	1.975953	
VALUE	50	
RSD%	4.00	10
%BIAS	-1.29	20



	Statistics	Target
MEAN	51.25088	
SD	1.764461	
VALUE	50	
RSD%	3.44	10
%BIAS	2.50	20

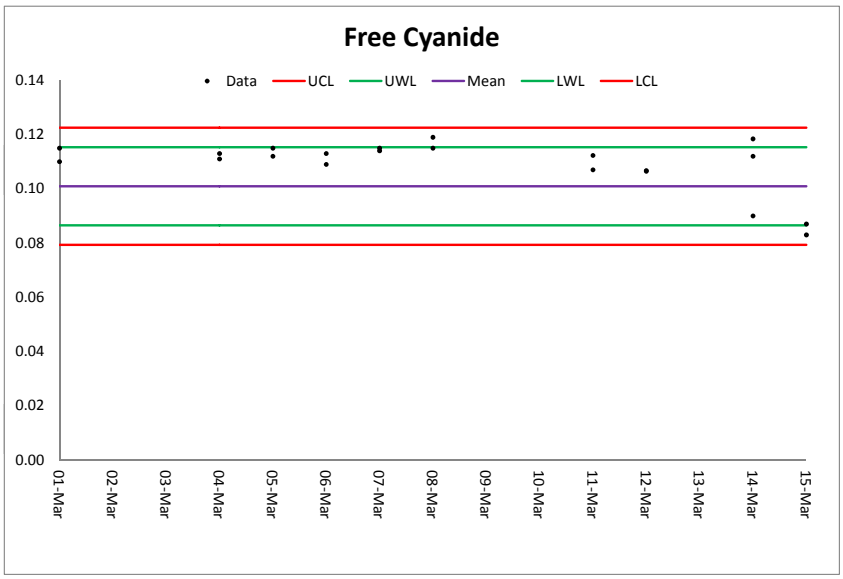


	Statistics	Target
MEAN	6.020333	
SD	0.439807	
VALUE	6	
RSD%	7.31	10
%BIAS	0.34	20



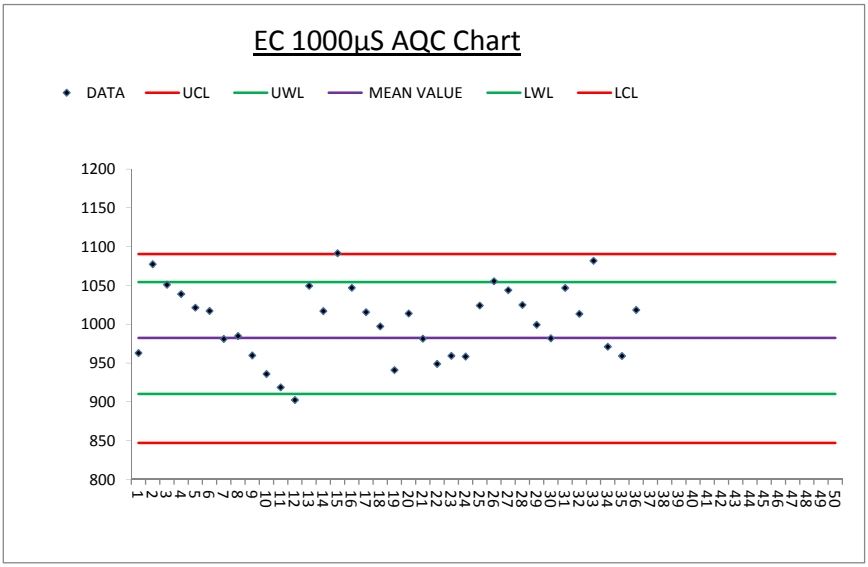
	Statistics	Target
MEAN	0.732167	
SD	0.021636	
VALUE	0.75	
RSD%	2.96	10
%BIAS	-2.38	20

TM089: Free Cyanide - March 2013

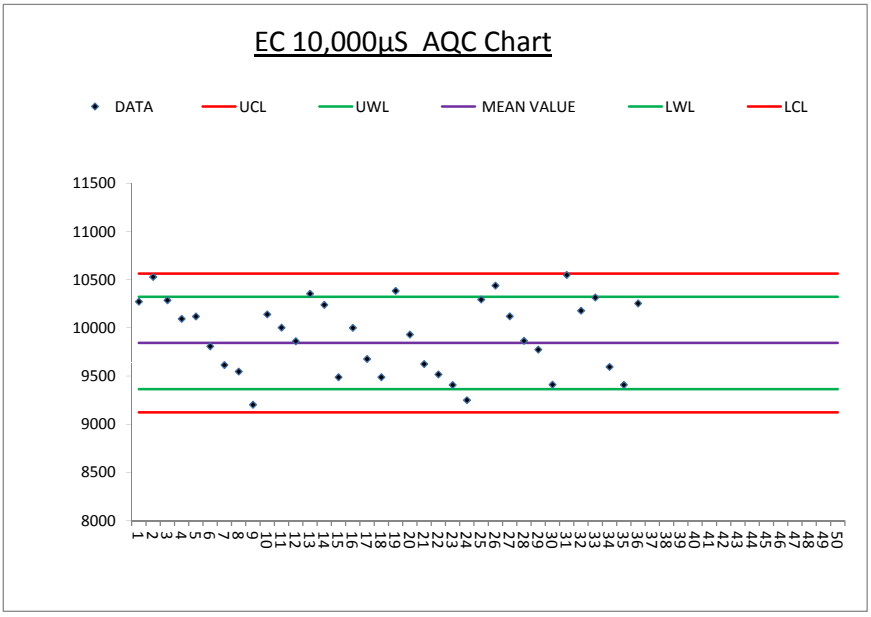


	Batch Stats	Target Value
Mean	0.108757143	
SD	0.009895836	
Std Conc	0.1	
RSD	9.10	10
% Bias	8.76	20

TM076: Conductivity - March 2013

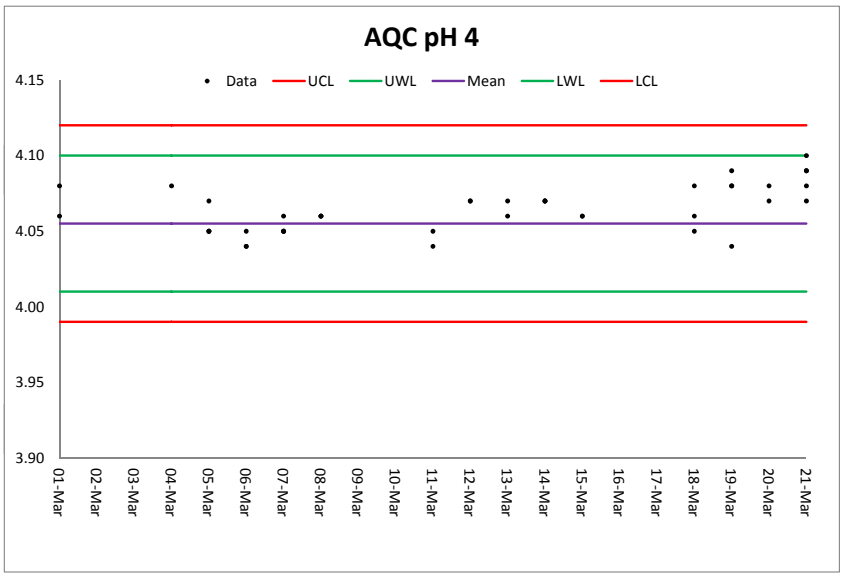


	Statistics	Target
MEAN	1017.114	
SD	36.14329	
VALUE	1000	
RSD%	3.55	10
%BIAS	1.71	20

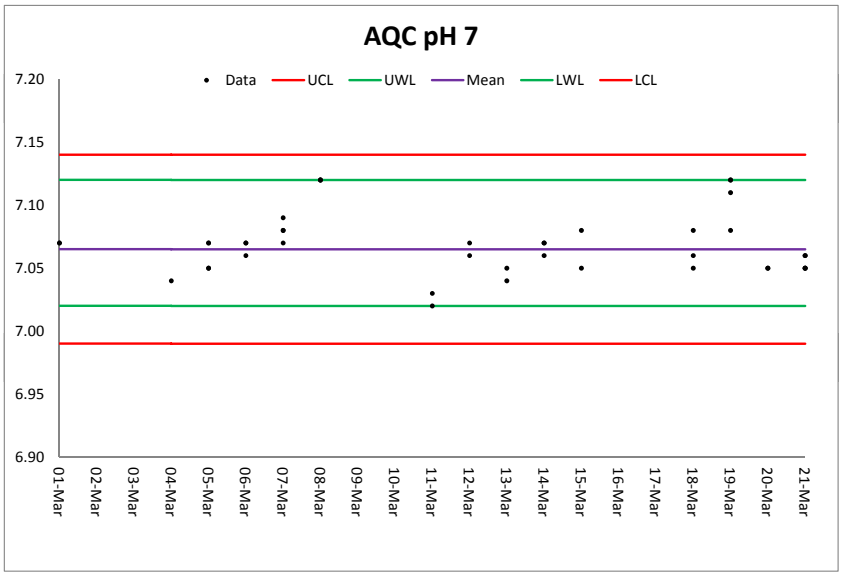


	Statistics	Target
MEAN	9931.964	
SD	357.0589	
VALUE	10000	
RSD%	3.60	10
%BIAS	-0.68	20

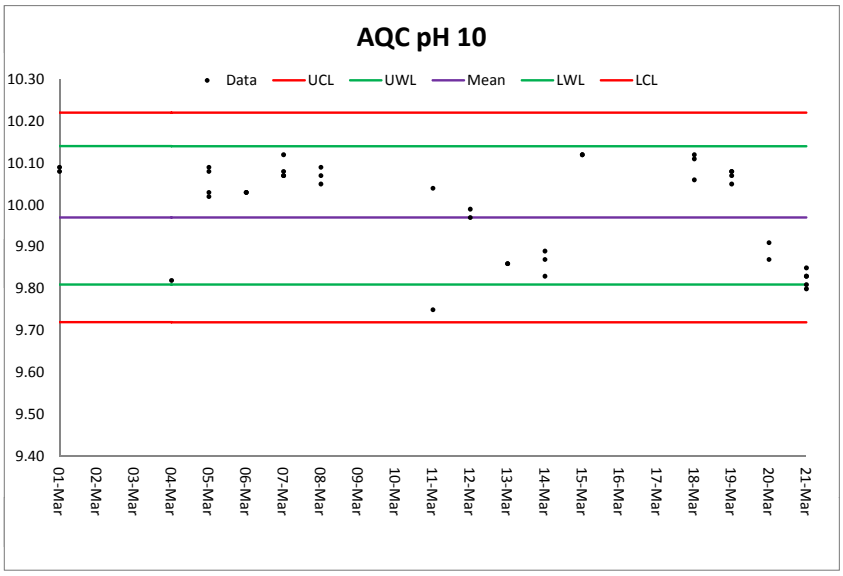
TM073: pH - March 2013



	Batch Stats	Target Value
Mean	4.06452381	
SD	0.015334066	
Std Conc	4	
RSD	0.38	10
% Bias	1.61	20

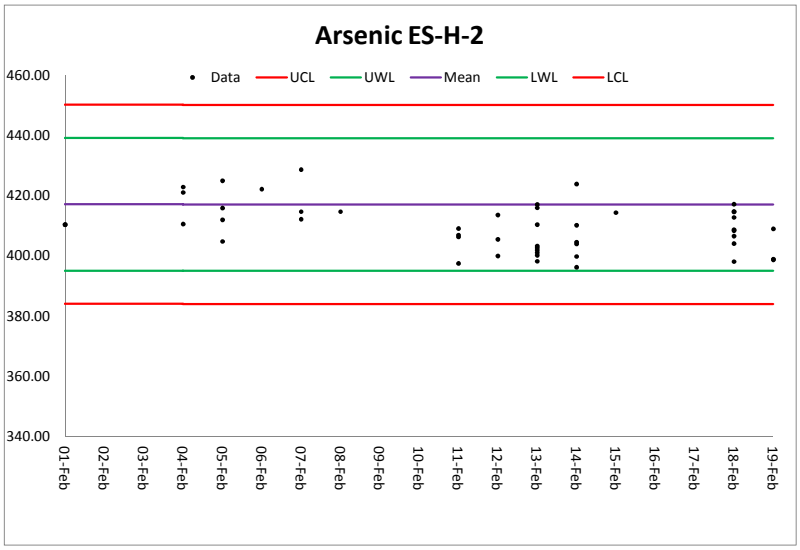


	Batch Stats	Target Value
Mean	7.068809524	
SD	0.024909826	
Std Conc	7	
RSD	0.35	10
% Bias	0.98	20

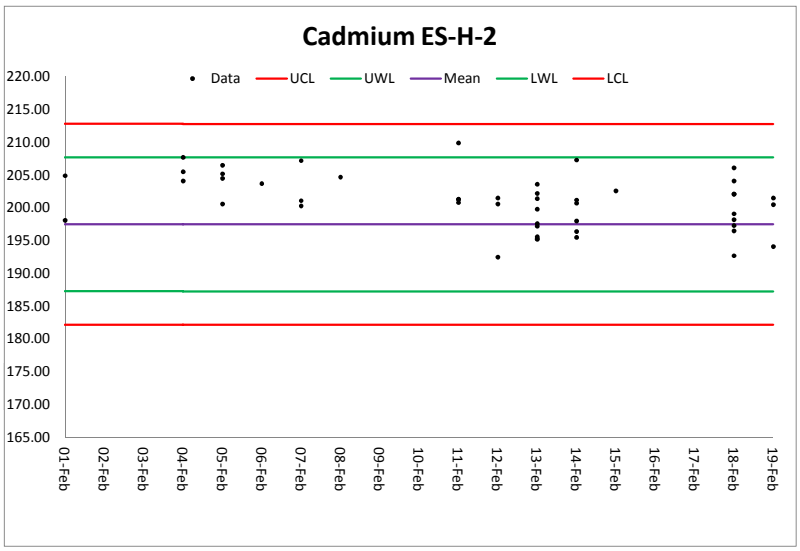


	Batch Stats	Target Value
Mean	9.990952381	
SD	0.113777908	
Std Conc	10	
RSD	1.14	10
% Bias	-0.09	20

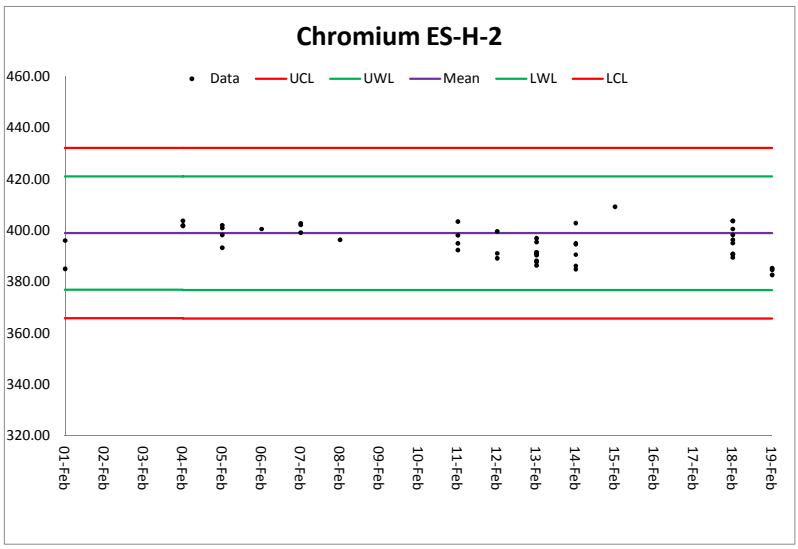
TM030: Metals - February 2013



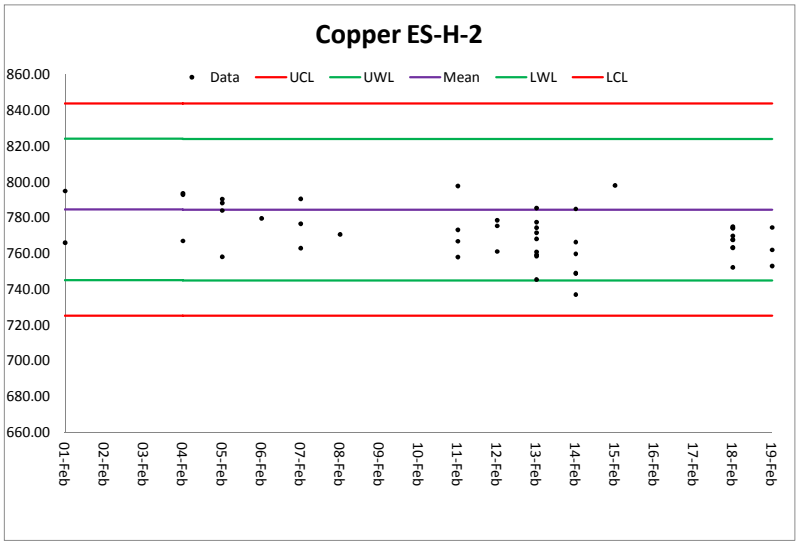
	Batch Stats	Target Value
Mean	409.3959184	
SD	8.05	
Std Conc	404	
RSD	1.97	10.00
% Bias	1.34	20.00



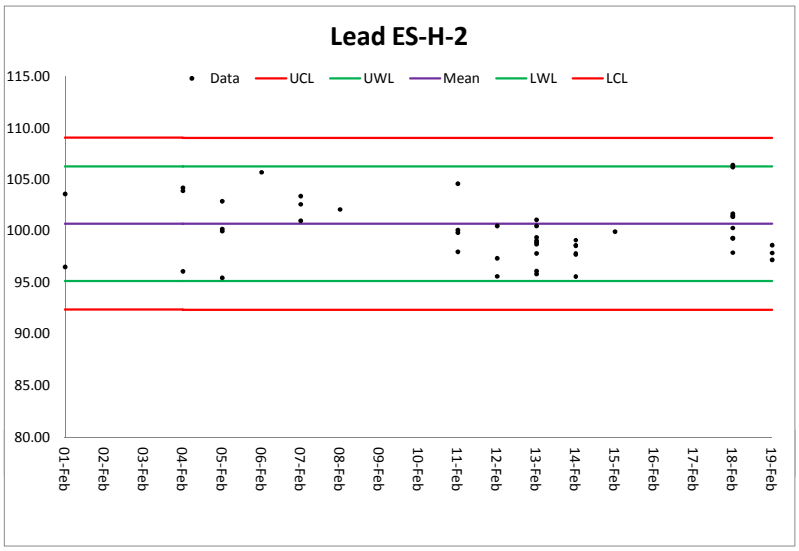
	Batch Stats	Target Value
Mean	200.9367347	
SD	4.09	
Std Conc	200	
RSD	2.04	7.50
% Bias	0.47	15.00



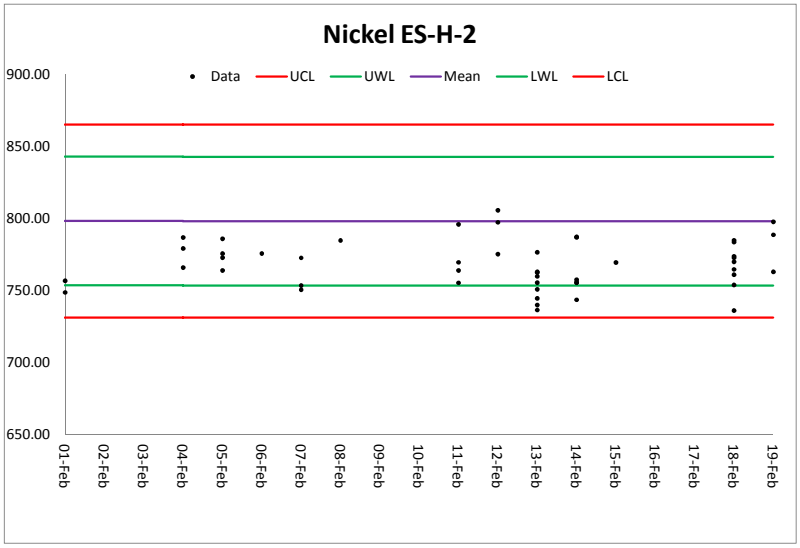
	Batch Stats	Target Value
Mean	395.0653061	
SD	6.48	
Std Conc	401	
RSD	1.64	7.50
% Bias	-1.48	15.00



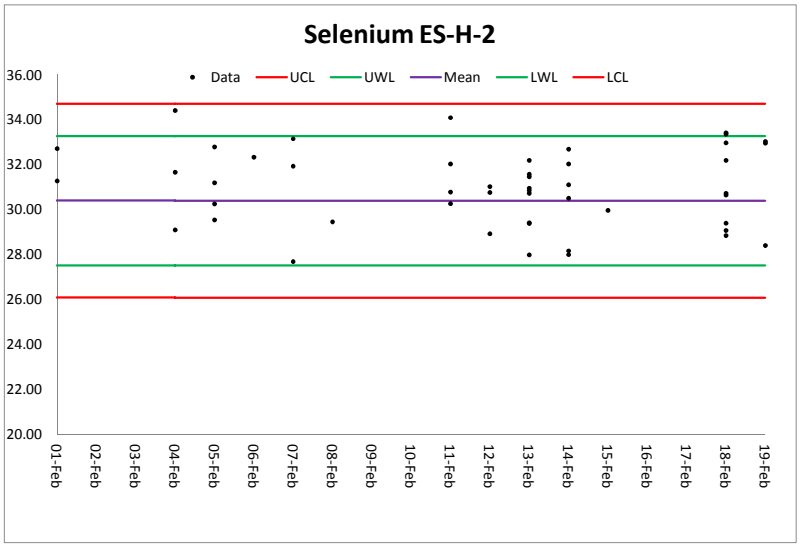
	Batch Stats	Target Value
Mean	770.8714286	
SD	14.23	
Std Conc	781	
RSD	1.85	7.50
% Bias	-1.30	15.00



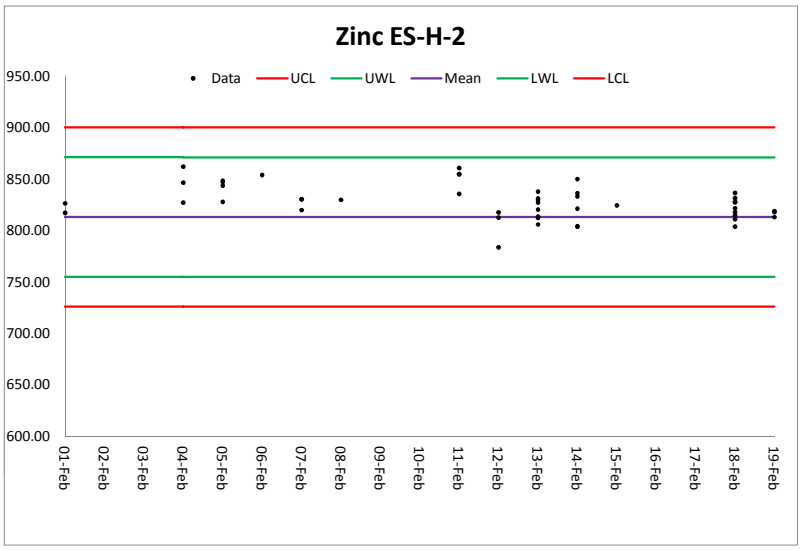
	Batch Stats	Target Value
Mean	99.92530612	
SD	2.859707227	
Std Conc	102	
RSD	2.86	7.50
% Bias	-2.03	15.00



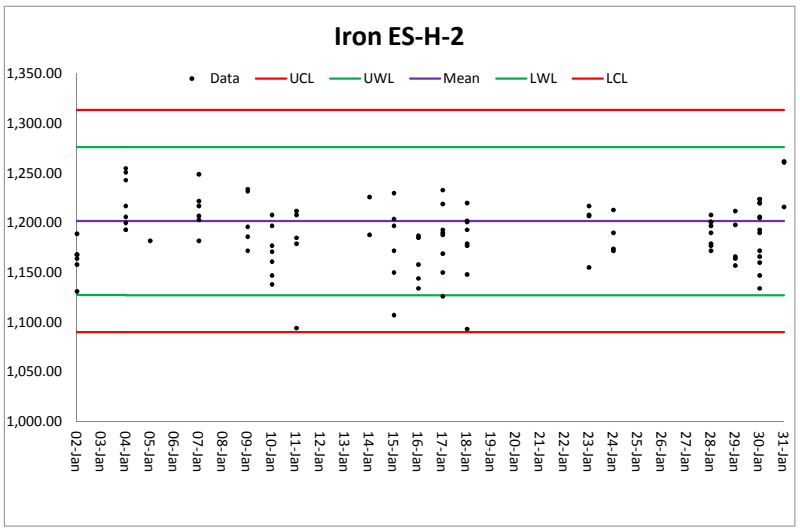
	Batch Stats	Target Value
Mean	768.0183673	
SD	16.78	
Std Conc	789	
RSD	2.18	7.50
% Bias	-2.66	15.00



	Batch Stats	Target Value
Mean	30.97387755	
SD	1.72	
Std Conc	30	
RSD	5.56	10.00
% Bias	3.25	20.00

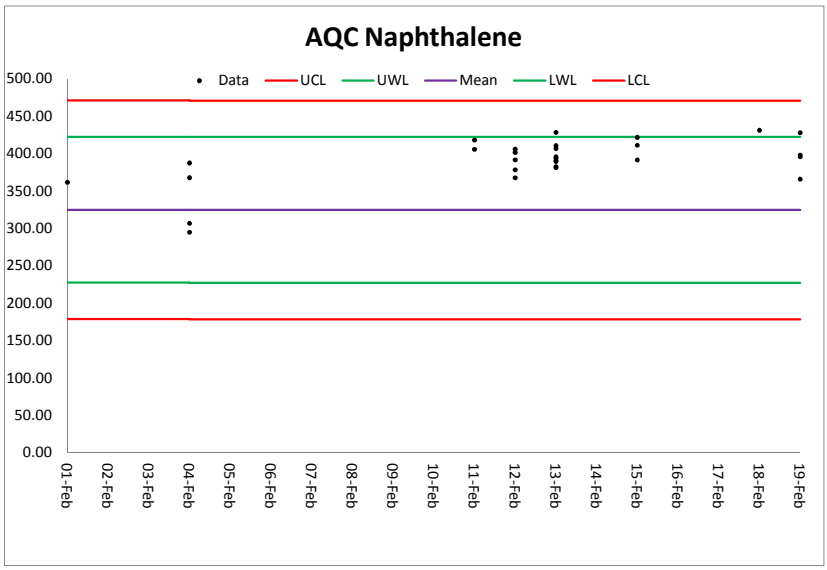


	Batch Stats	Target Value
Mean	827.4510204	
SD	16.50932972	
Std Conc	800	
RSD	2.00	7.50
% Bias	3.43	15.00

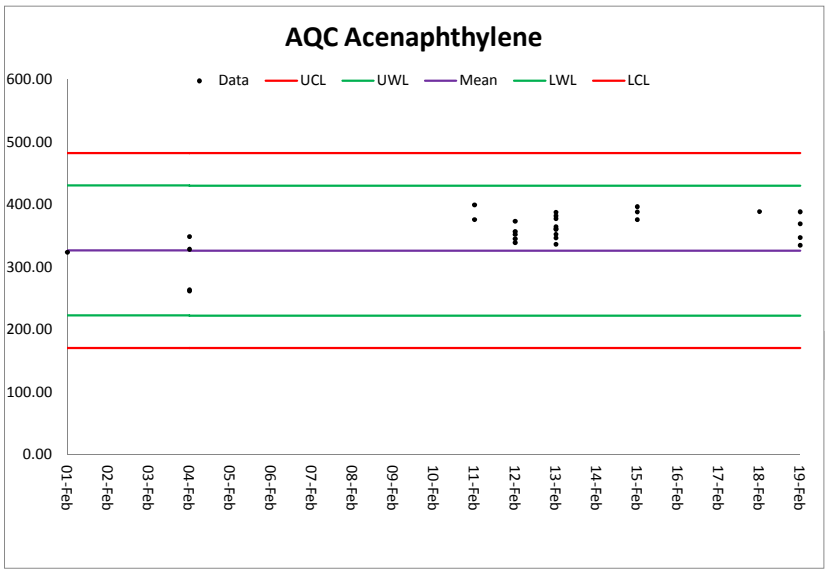


	Batch Stats	Target Value
Mean	1188.615385	
SD	33.26834342	
Std Conc	1170	
RSD	2.80	7.50
% Bias	1.59	15.00

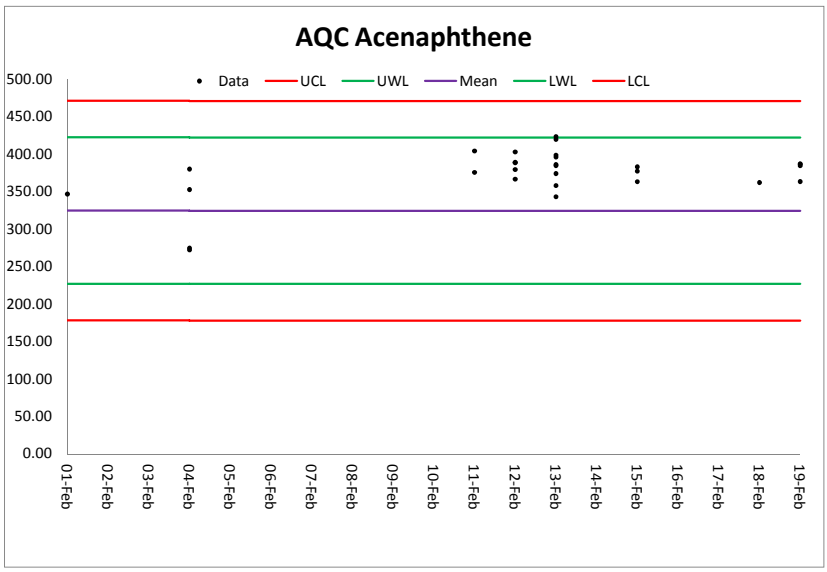
TM004: PAH - February 2013



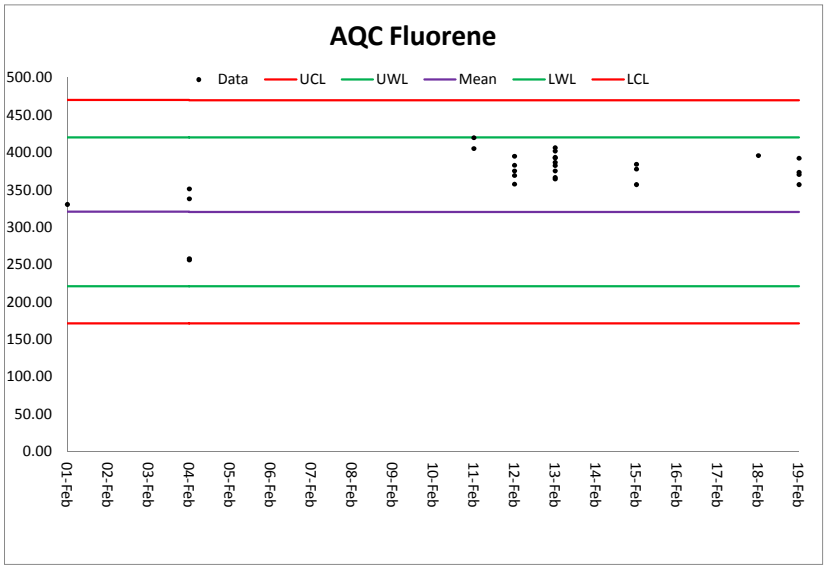
	Batch Stats	Target Value
Mean	390.1368966	
SD	31.06551029	
Std Conc	400	
RSD	7.96	20
% Bias	-2.47	40



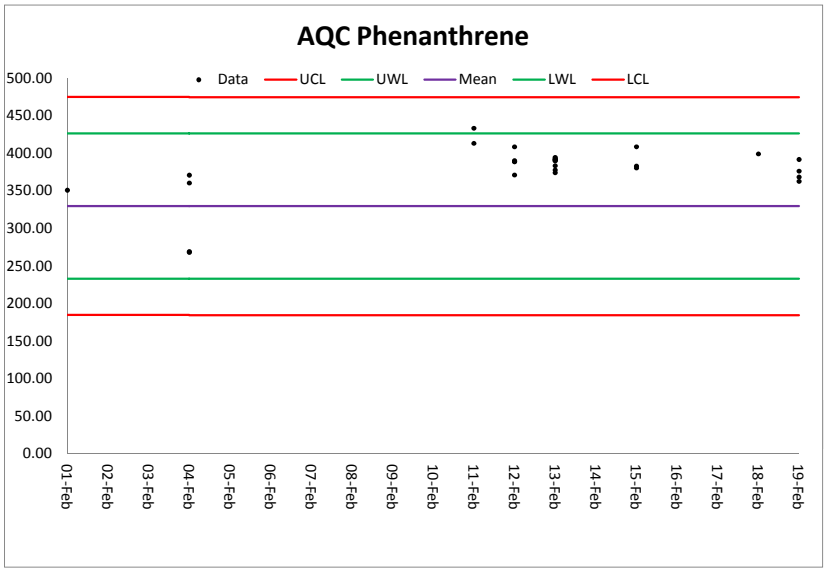
	Batch Stats	Target Value
Mean	356.2975862	
SD	33.21409863	
Std Conc	400	
RSD	9.32	20
% Bias	-10.93	40



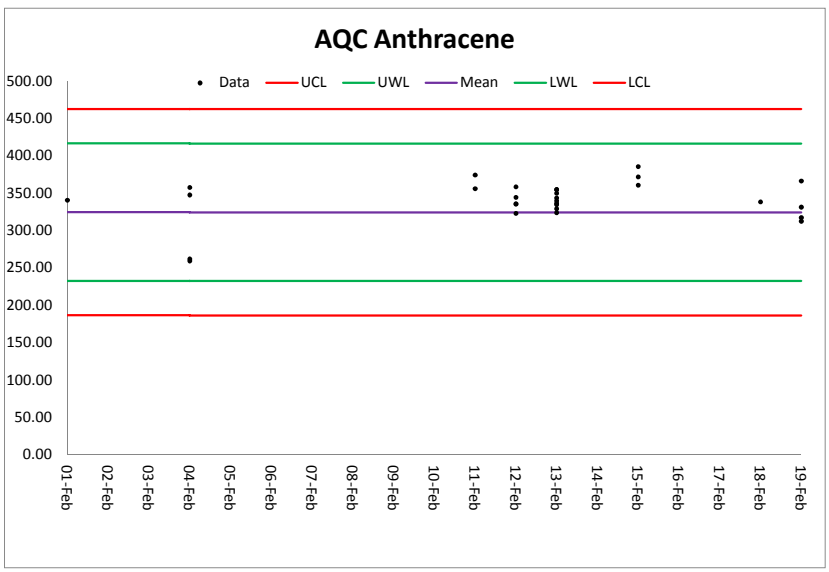
	Batch Stats	Target Value
Mean	373.6341379	
SD	33.67514646	
Std Conc	400	
RSD	9.01	20
% Bias	-6.59	40



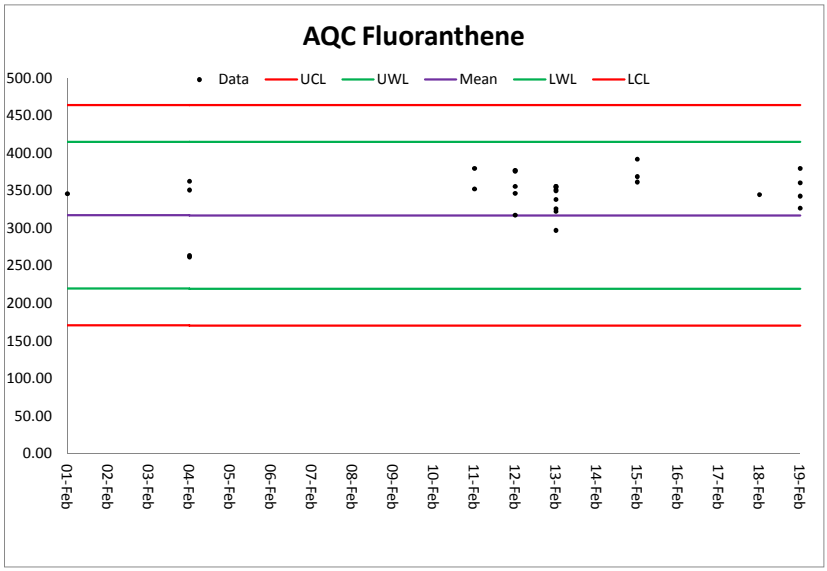
	Batch Stats	Target Value
Mean	369.7510345	
SD	37.23493687	
Std Conc	400	
RSD	10.07	20
% Bias	-7.56	40



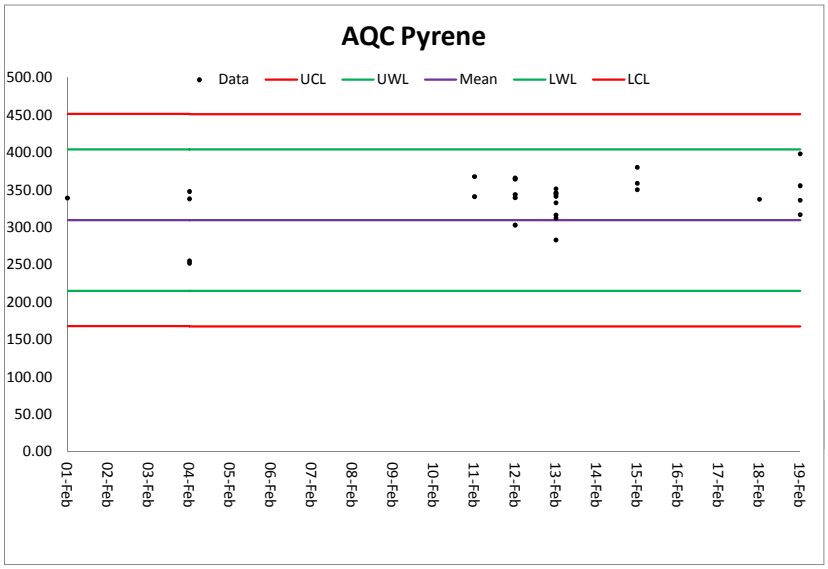
	Batch Stats	Target Value
Mean	378.5382759	
SD	34.77713751	
Std Conc	400	
RSD	9.19	20
% Bias	-5.37	40



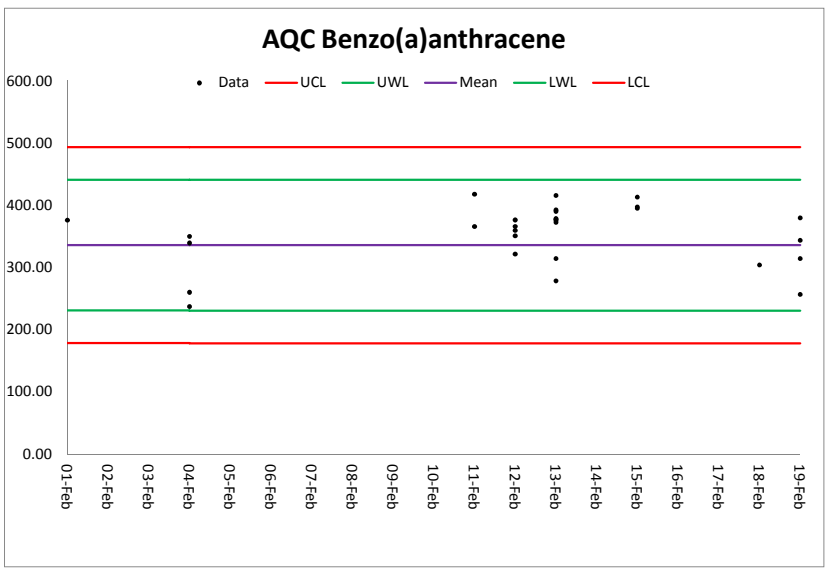
	Batch Stats	Target Value
Mean	339.7082759	
SD	27.78060295	
Std Conc	400	
RSD	8.18	20
% Bias	-15.07	40



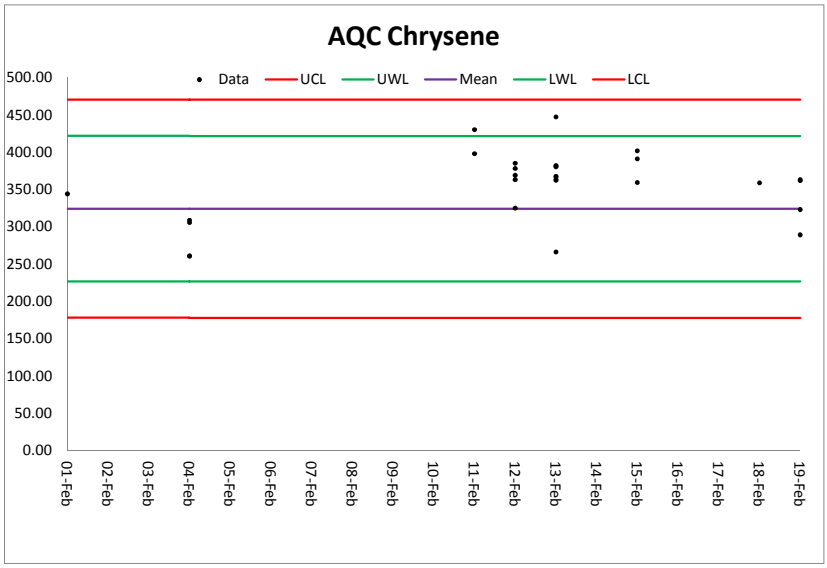
	Batch Stats	Target Value
Mean	345.6496552	
SD	30.71409466	
Std Conc	400	
RSD	8.89	20
% Bias	-13.59	40



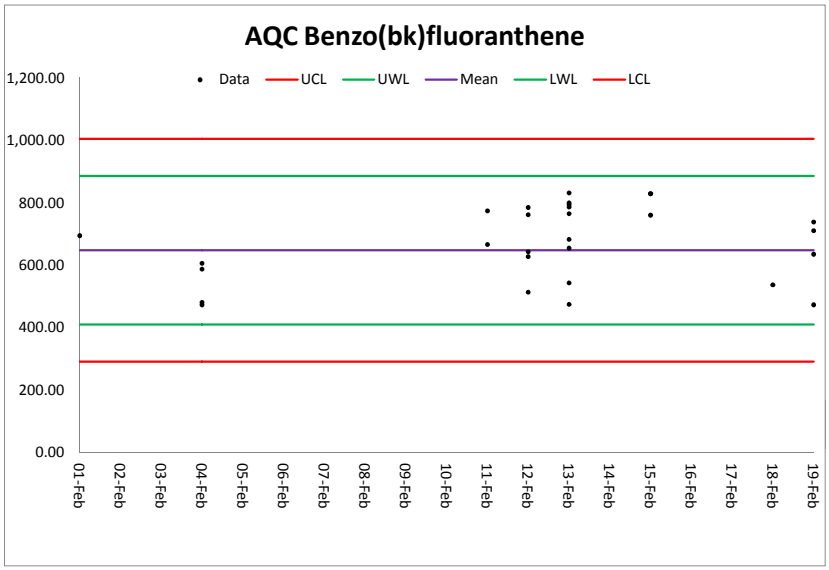
	Batch Stats	Target Value
Mean	337.0665517	
SD	32.32995131	
Std Conc	400	
RSD	9.59	20
% Bias	-15.73	40



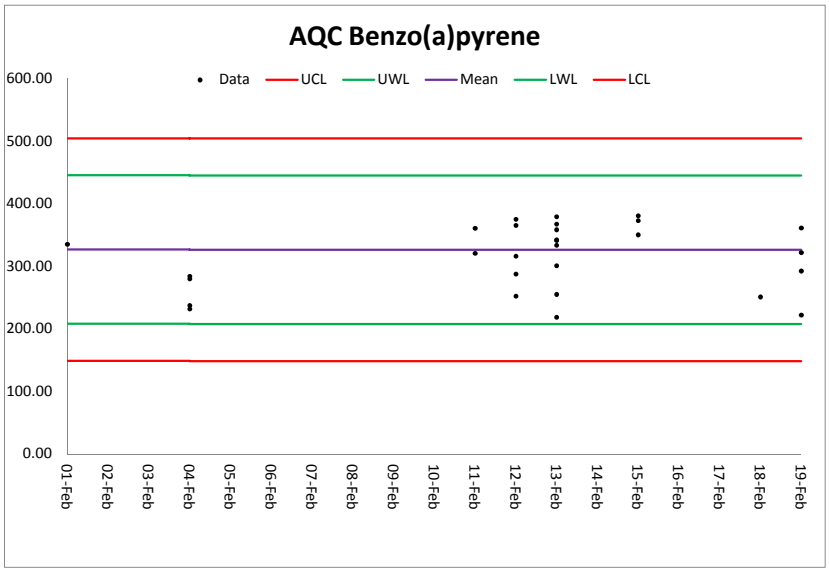
	Batch Stats	Target Value
Mean	352.7489655	
SD	48.67611018	
Std Conc	400	
RSD	13.80	20
% Bias	-11.81	40



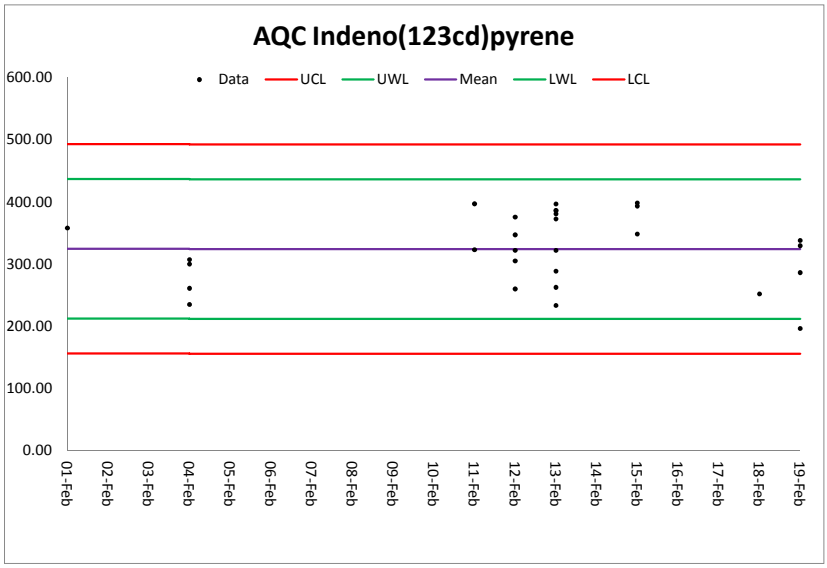
	Batch Stats	Target Value
Mean	355.29	
SD	46.44339827	
Std Conc	400	
RSD	13.07	20
% Bias	-11.18	40



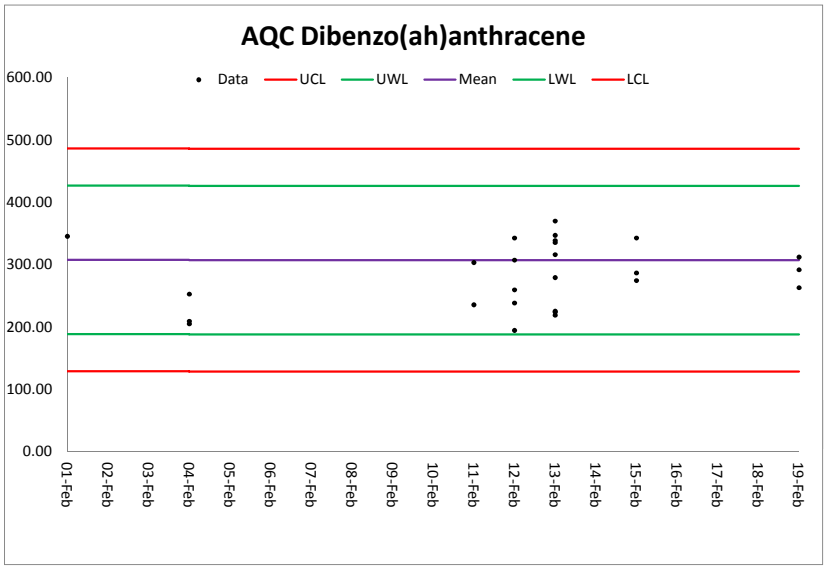
	Batch Stats	Target Value
Mean	672.0082759	
SD	120.1010411	
Std Conc	800	
RSD	17.87	20
% Bias	-16.00	40



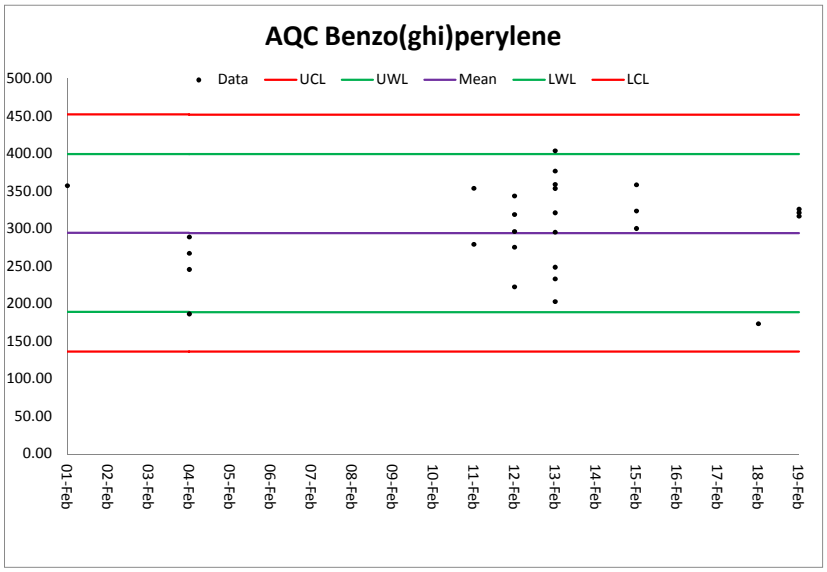
	Batch Stats	Target Value
Mean	313.6227586	
SD	52.24342815	
Std Conc	400	
RSD	16.66	20
% Bias	-21.59	40



	Batch Stats	Target Value
Mean	323.2158621	
SD	57.5434363	
Std Conc	400	
RSD	17.80	20
% Bias	-19.20	40

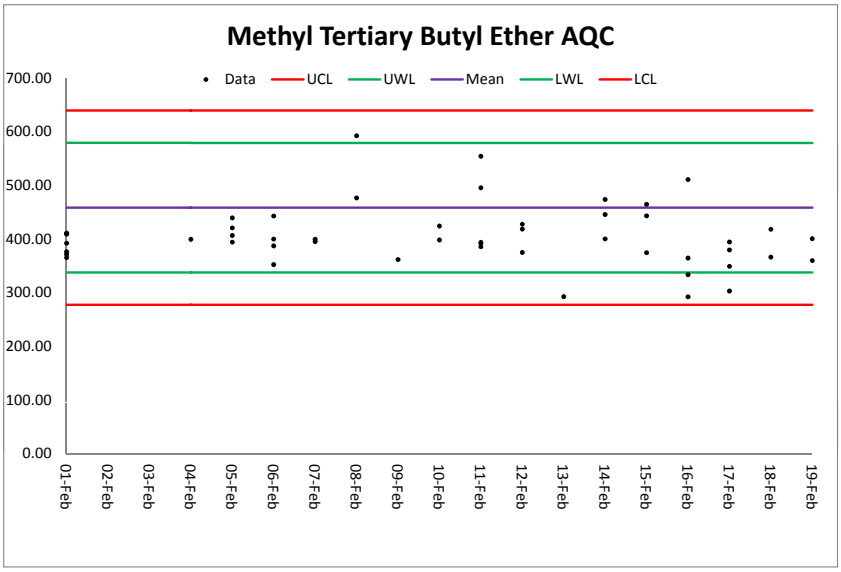


	Batch Stats	Target Value
Mean	281.9476923	
SD	52.18936798	
Std Conc	400	
RSD	18.51	20
% Bias	-29.51	40

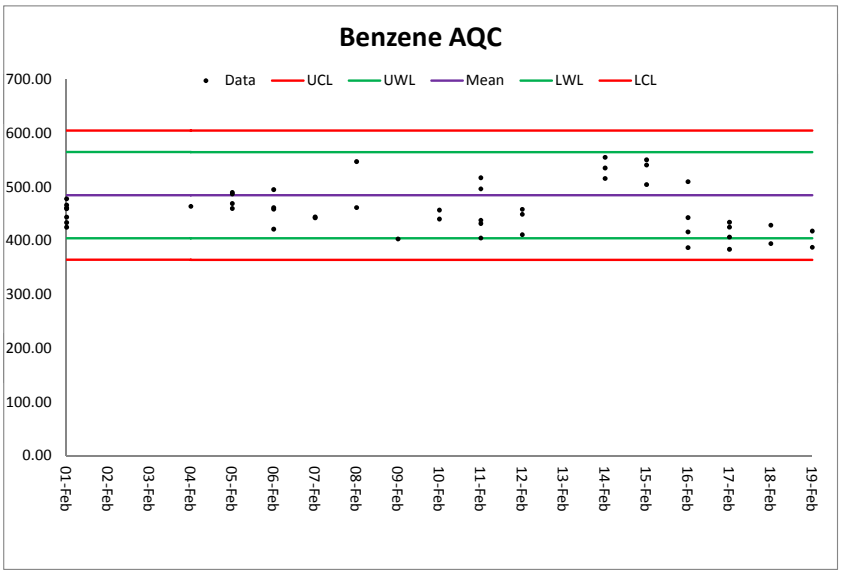


	Batch Stats	Target Value
Mean	298.2557143	
SD	58.95258449	
Std Conc	400	
RSD	19.77	20
% Bias	-25.44	40

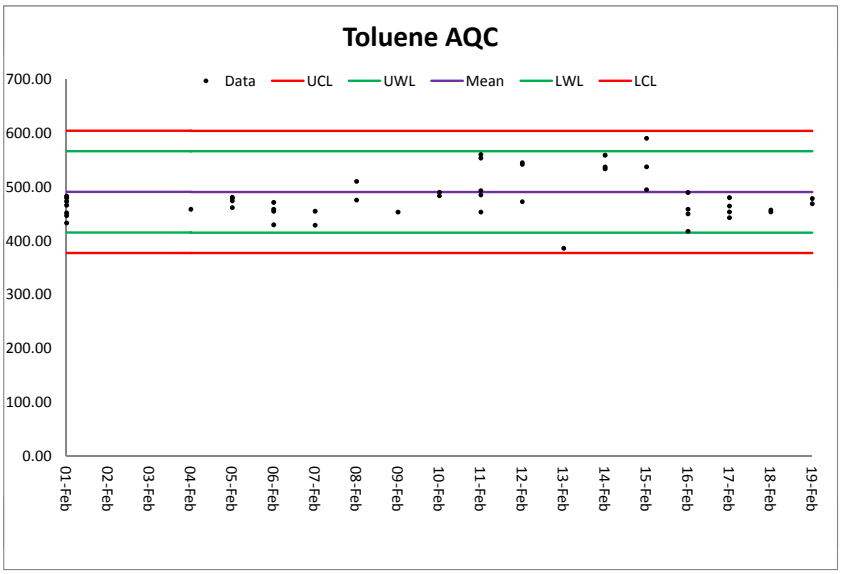
TM015: MBTEX - February 2013



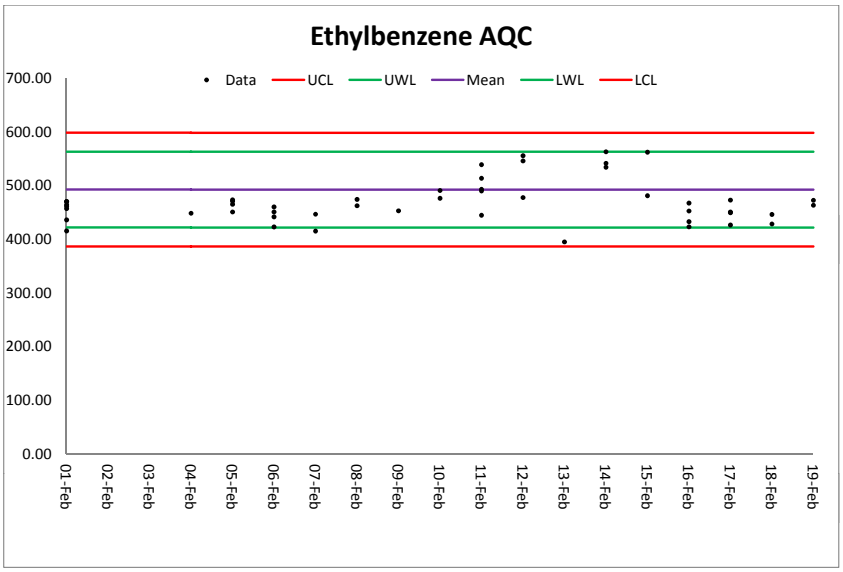
	Batch Stats	Target Value
Mean	404.7262	
SD	56.94822127	
Std Conc	500	
RSD	14.07	20
% Bias	-19.05	40



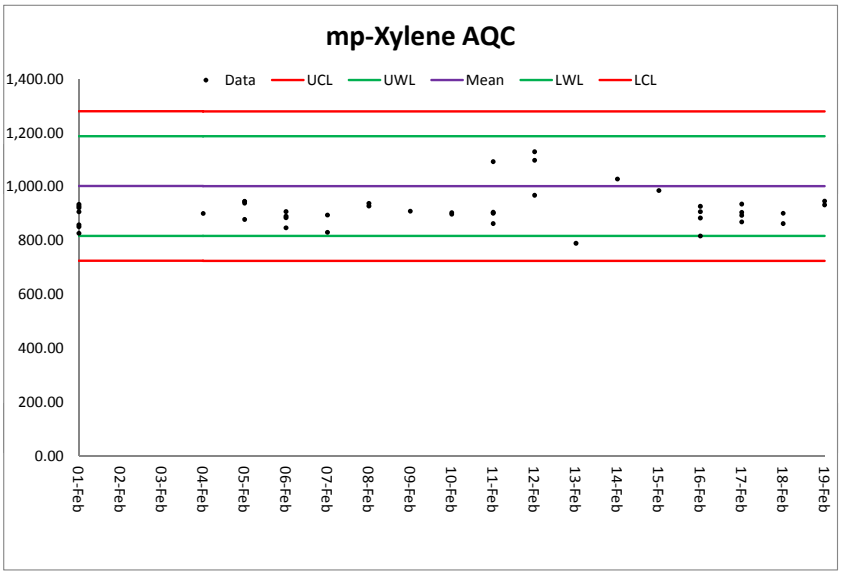
	Batch Stats	Target Value
Mean	457.5012245	
SD	44.93922348	
Std Conc	500	
RSD	9.82	20
% Bias	-8.50	40



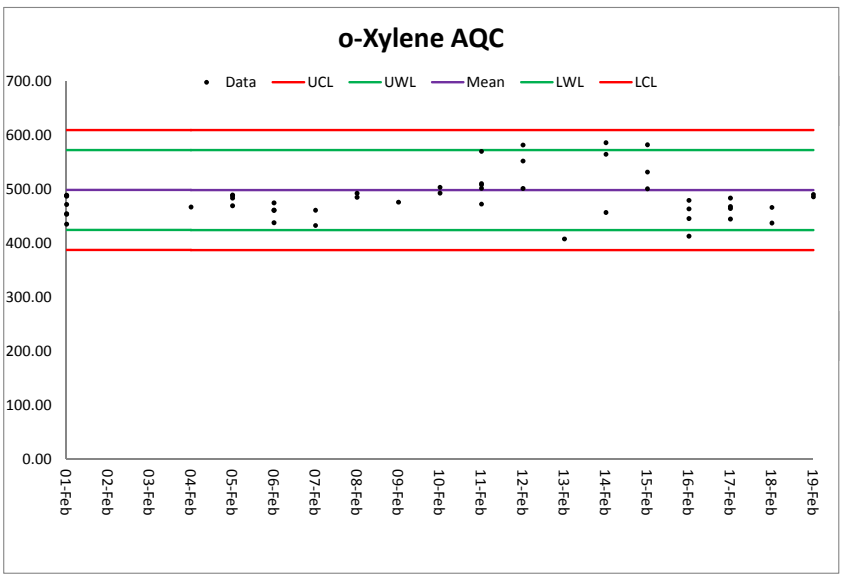
	Batch Stats	Target Value
Mean	479.4694	
SD	40.60597937	
Std Conc	500	
RSD	8.47	20
% Bias	-4.11	40



	Batch Stats	Target Value
Mean	469.8046939	
SD	39.68812606	
Std Conc	500	
RSD	8.45	20
% Bias	-6.04	40

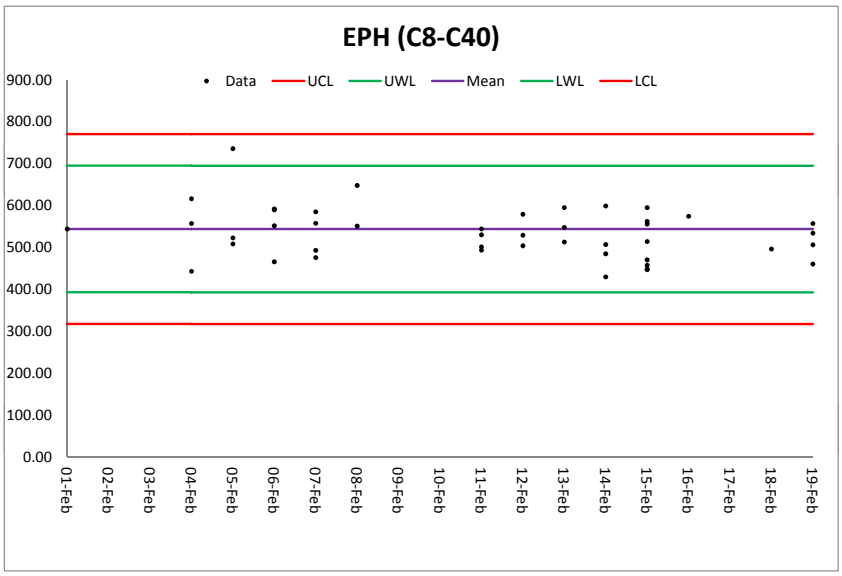


	Batch Stats	Target Value
Mean	915.7906522	
SD	67.19162039	
Std Conc	1000	
RSD	7.34	20
% Bias	-8.42	40



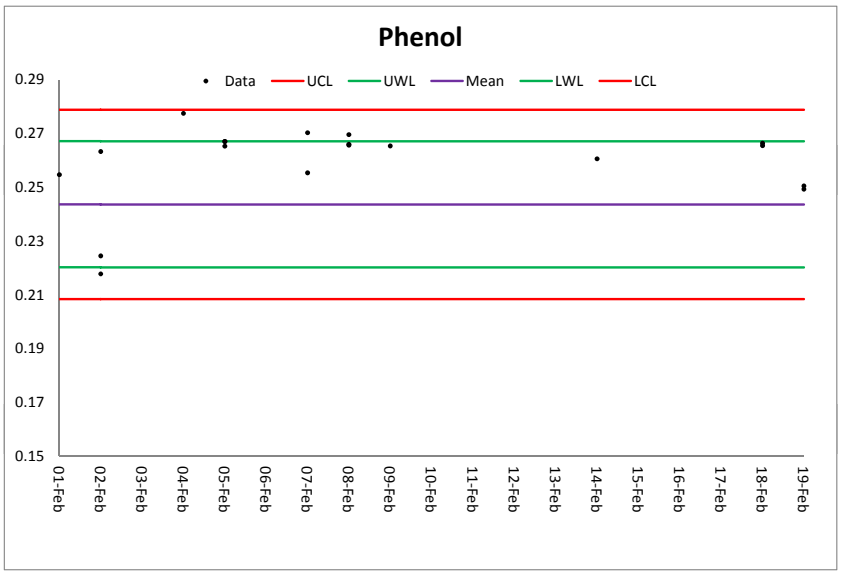
	Batch Stats	Target Value
Mean	484.6312	
SD	41.13952376	
Std Conc	500	
RSD	8.49	20
% Bias	-3.07	40

TM005: EPH - February 2013

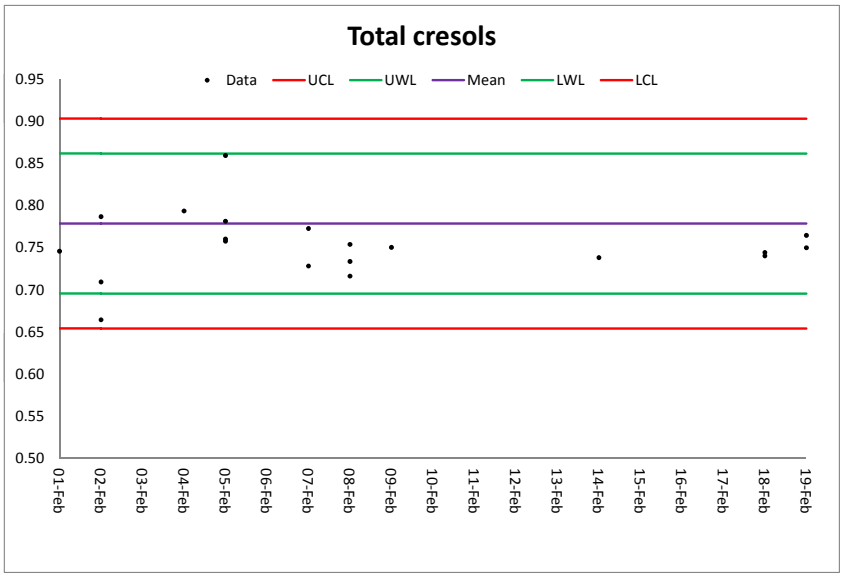


	Batch Stats	Target Value
Mean	532.9726667	
SD	59.97556155	
Std Conc	567	
RSD	11.25	20
% Bias	-6.00	40

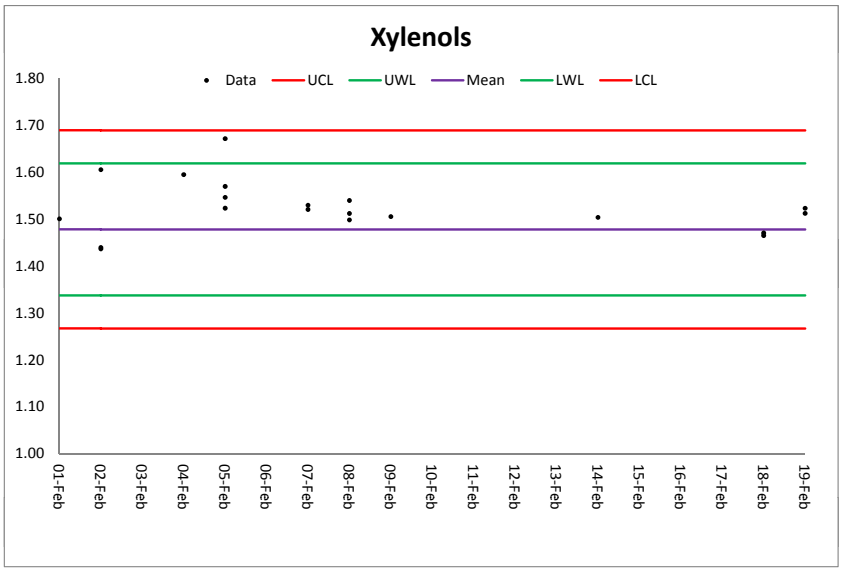
TM026: Phenols - February 2013



	Batch Stats	Target Value
Mean	0.259047368	
SD	0.015073795	
Std Conc	0.25	
RSD	5.82	10
% Bias	3.62	20

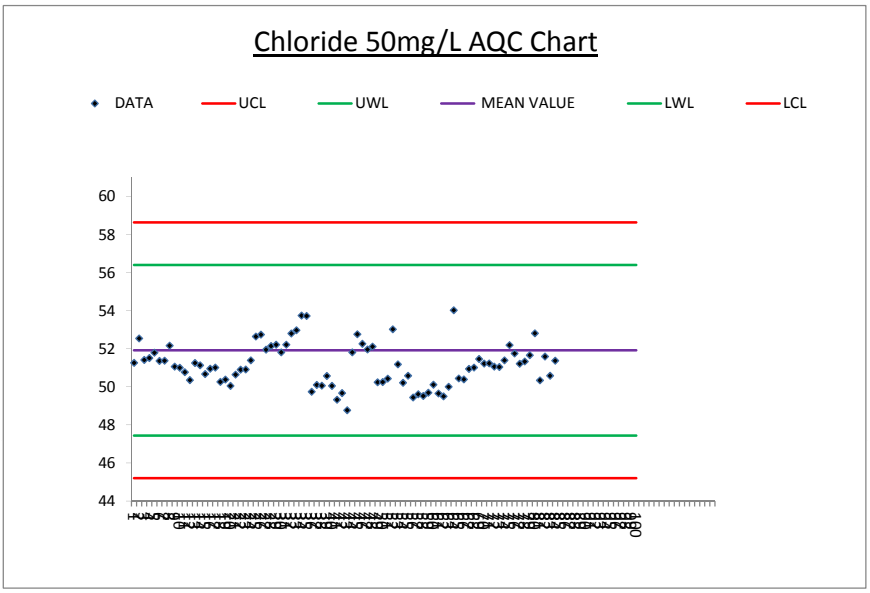


	Batch Stats	Target Value
Mean	0.752655	
SD	0.038516688	
Std Conc	0.75	
RSD	5.12	10
% Bias	0.35	20

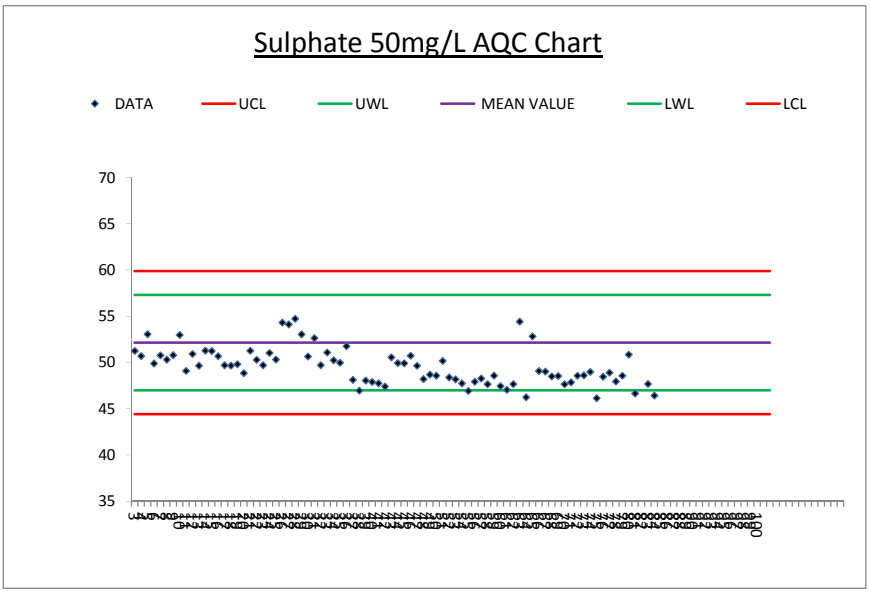


	Batch Stats	Target Value
Mean	1.523935	
SD	0.056090953	
Std Conc	1.5	
RSD	3.68	10
% Bias	1.60	20

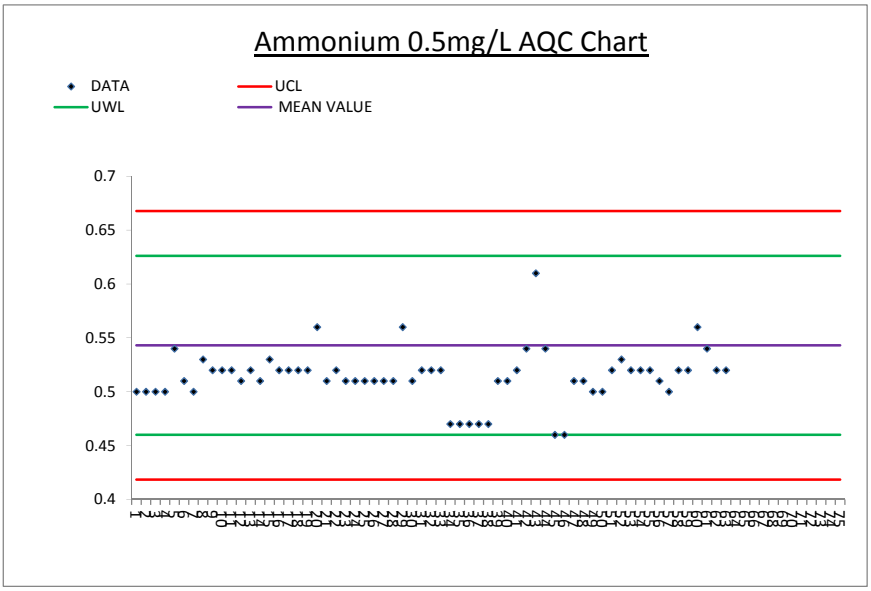
TM038: Anions - February 2013



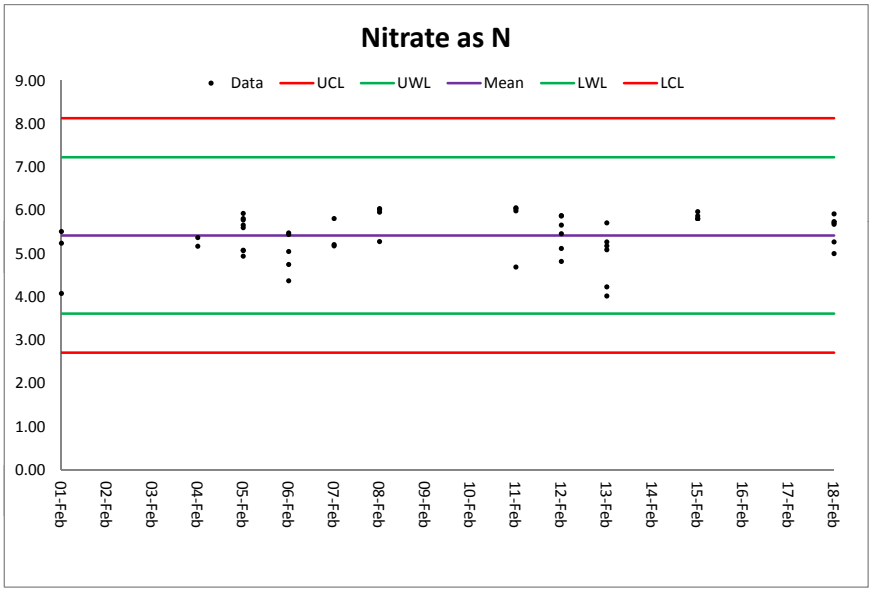
	Statistics	Target
MEAN	51.15107	
SD	1.090398	
VALUE	50	
RSD%	2.13	10
%BIAS	2.30	20



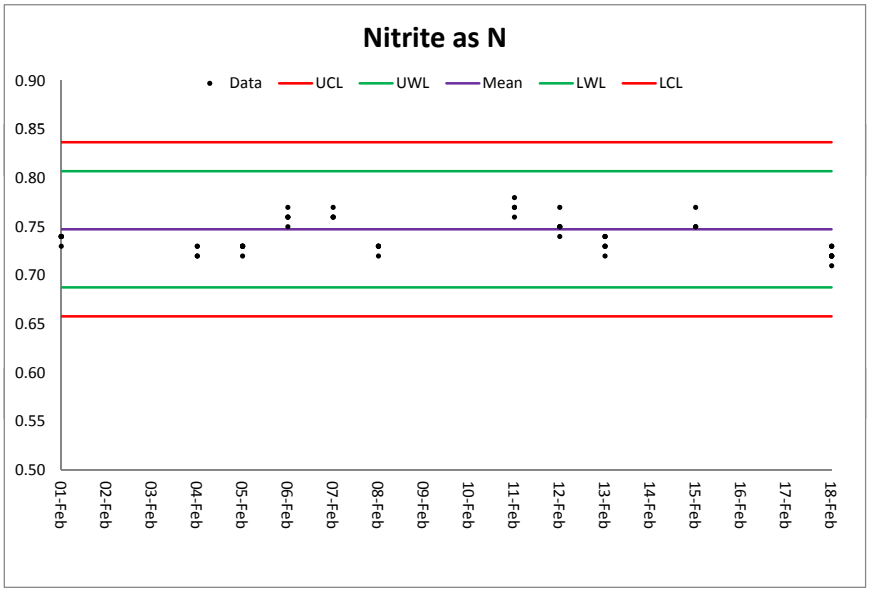
	Statistics	Target
MEAN	49.57753	
SD	1.970384	
VALUE	50	
RSD%	3.97	10
%BIAS	-0.84	20



	Statistics	Target
MEAN	0.514127	
SD	0.024471	
VALUE	0.5	
RSD%	4.76	10
%BIAS	2.83	20

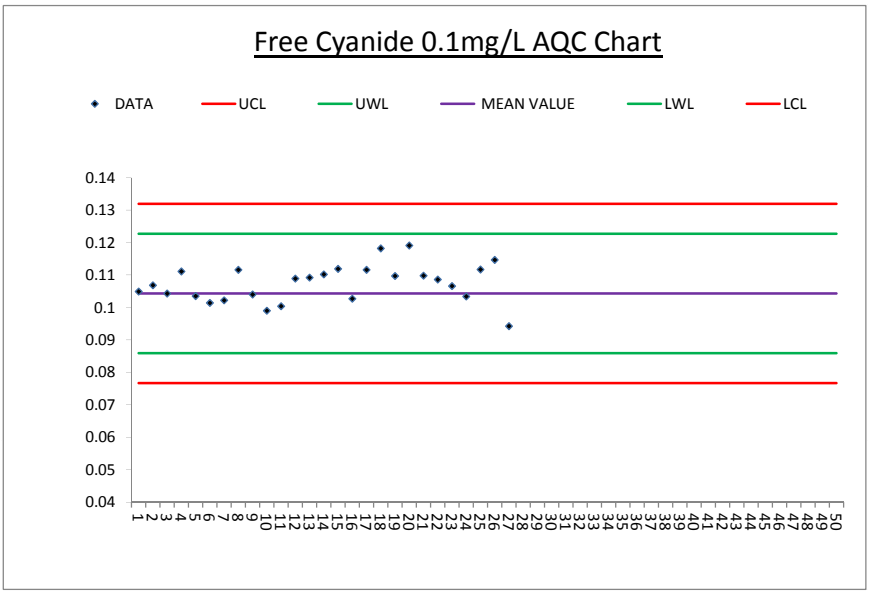


	Statistics	Target
MEAN	5.405686	
SD	0.52386	
VALUE	6	
RSD%	9.69	10
%BIAS	-9.91	20



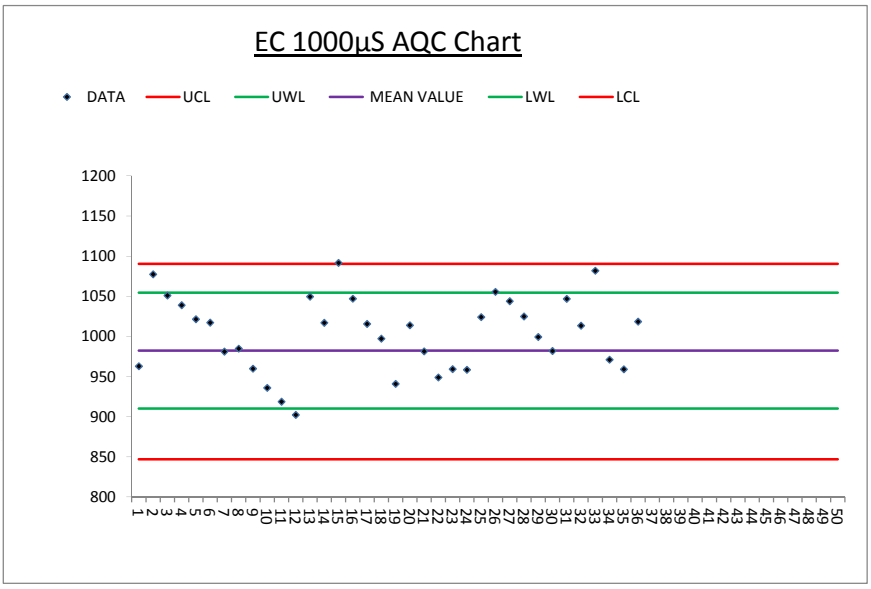
	Statistics	Target
MEAN	0.74	
SD	0.016583	
VALUE	0.75	
RSD%	2.24	10
%BIAS	-1.33	20

TM089: Free Cyanide - February 2013

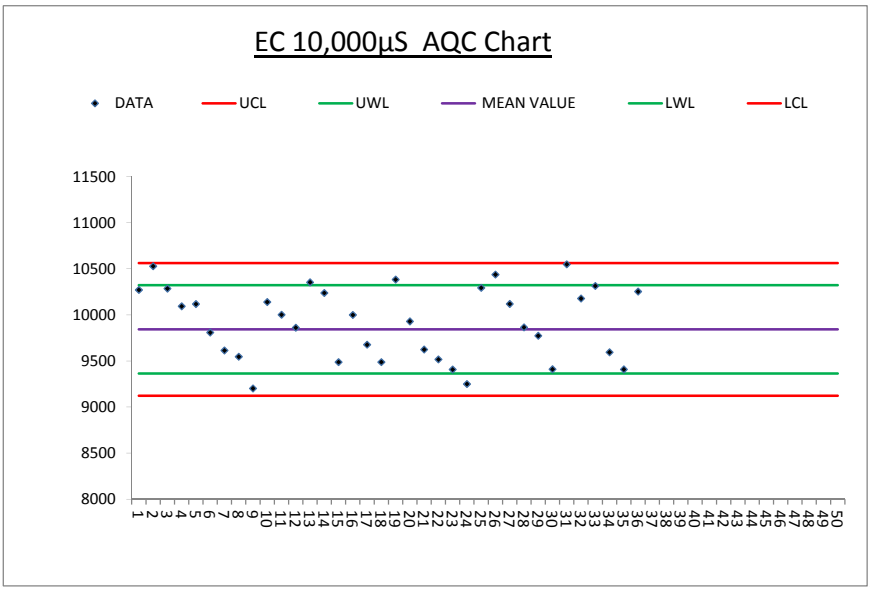


	Statistics	Target
MEAN	0.107397	
SD	0.005742	
VALUE	0.1	
RSD%	5.35	10
%BIAS	7.40	20

TM076: Electrical Conductivity - February 2013

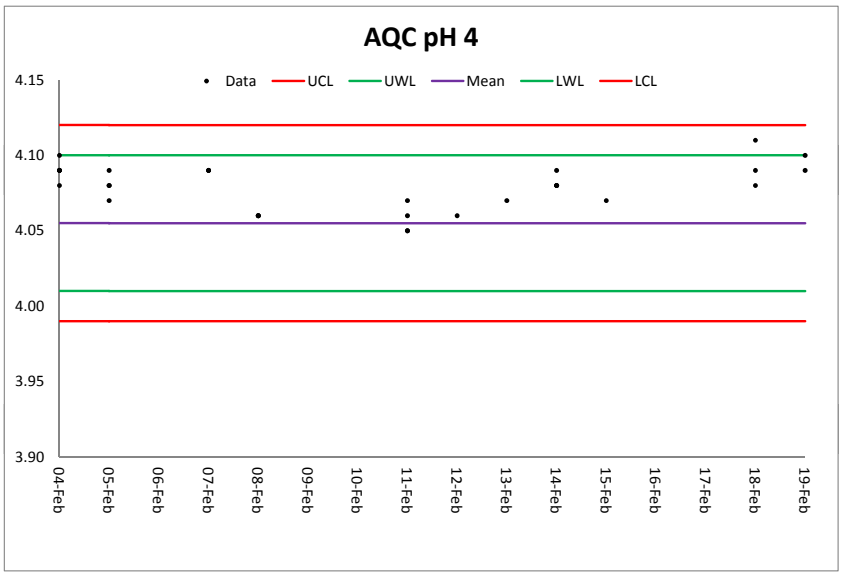


	Statistics	Target
MEAN	1004.355	
SD	47.8589	
VALUE	1000	
RSD%	4.77	10
%BIAS	0.44	20

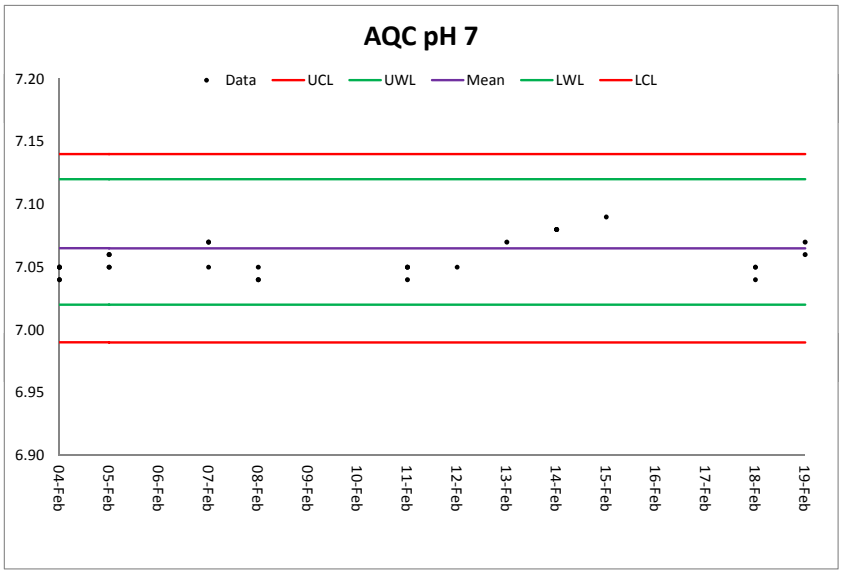


	Statistics	Target
MEAN	9946.738	
SD	383.6832	
VALUE	10000	
RSD%	3.86	10
%BIAS	-0.53	20

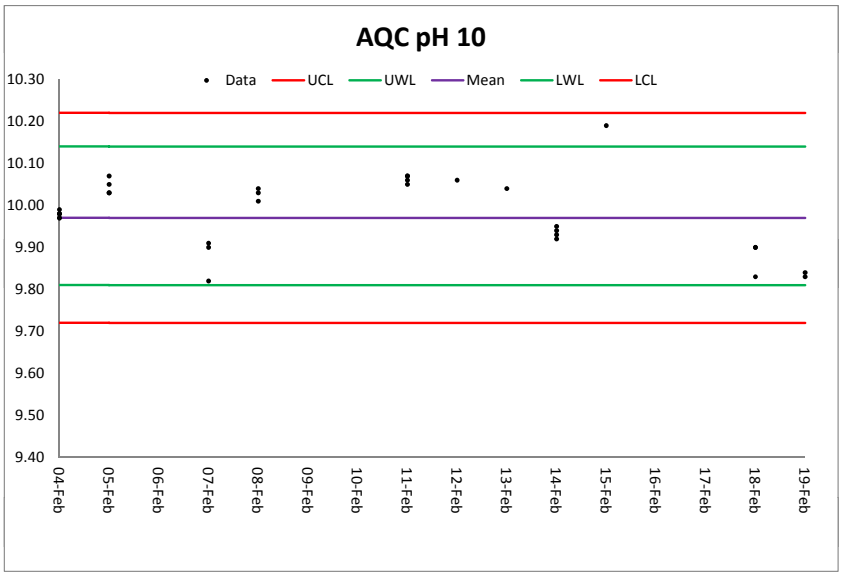
TM073: pH - February 2013



	Batch Stats	Target Value
Mean	4.079375	
SD	0.015013435	
Std Conc	4	
RSD	0.37	10
% Bias	1.98	20



	Batch Stats	Target Value
Mean	7.0565625	
SD	0.014280457	
Std Conc	7	
RSD	0.20	10
% Bias	0.81	20



	Batch Stats	Target Value
Mean	9.979375	
SD	0.086095877	
Std Conc	10	
RSD	0.86	10
% Bias	-0.21	20

Appendix G15 - PID Calibration Certificates

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CERTIFICATE OF CALIBRATION
MiniRAE 2000

STL 20

CALIBRATION CERTIFICATE NO: 46493

ISSUED BY: SHAWCITY LIMITED
DATE: 06/09/2012

APPROVED SIGNATORY:

NAME: Dave Endacott

CUSTOMER: Severn Trent Laboratories Ltd
INSTRUMENT: MiniRAE 2000
SERIAL NUMBER: 110-901775

CALIBRATION METHOD: CM03
AMBIENT CONDITIONS: 20°C ± 2°C and 50% (± 20%) RH

Prior to calibration the instrument was allowed to stabilise in the laboratory for at least 30 minutes.
The instrument was calibrated by exposing the sensor to known values of gas concentrations.
All gases were sampled through the complete probe and in line filter, where applicable.
The reference value is that generated by the certified source and the indicated value is that measured by the instrument.

CALIBRATION RESULTS

GAS	LOT No	REF. VALUE	INDICATED VALUE
Isobutylene	1300579	100 ppm	100 ppm

COMMENTS:
The reported uncertainty is based on a standard uncertainty multiplied by a coverage factor of $k=2$.
This provides a level of confidence of uncertainty of approximately 95%.
The uncertainty of measurement is ±2 ppm.
The results indicate that the instrument conforms to the applicable parts of the published specification.

Tel: 01793 780622
www.shawcity.co.uk
Instrument House, 91-92 Shrivenham Hundred Business Park
Watchfield, Oxfordshire, SN6 8TY
Fax: 01793 784466
ervice@shawcity.co.uk

shawcity LIMITED
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CERTIFICATE OF CALIBRATION
MiniRAE 2000

STL 20

CALIBRATION CERTIFICATE NO: 46493

ISSUED BY: SHAWCITY LIMITED
DATE: 06/09/2012

APPROVED SIGNATORY:

NAME: Dave Endacott

CUSTOMER: Severn Trent Laboratories Ltd
INSTRUMENT: MiniRAE 2000
SERIAL NUMBER: 110-901775

CALIBRATION METHOD: CM03
AMBIENT CONDITIONS: 20°C ± 2°C and 50% (± 20%) RH

Prior to calibration the instrument was allowed to stabilise in the laboratory for at least 30 minutes.
The instrument was calibrated by exposing the sensor to known values of gas concentrations.
All gases were sampled through the complete probe and in line filter, where applicable.
The reference value is that generated by the certified source and the indicated value is that measured by the instrument.

CALIBRATION RESULTS

GAS	LOT No	REF. VALUE	INDICATED VALUE
Isobutylene	1300579	100 ppm	100 ppm

COMMENTS:
The reported uncertainty is based on a standard uncertainty multiplied by a coverage factor of $k=2$.
This provides a level of confidence of uncertainty of approximately 95%.
The uncertainty of measurement is ±2 ppm.
The results indicate that the instrument conforms to the applicable parts of the published specification.

Tel: 01793 780622
www.shawcity.co.uk
Instrument House, 91-92 Shrivenham Hundred Business Park
Watchfield, Oxfordshire, SN6 8TY
Fax: 01793 784466
ervice@shawcity.co.uk

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CERTIFICATE OF CALIBRATION
MiniRAE 2000

STL 20

CALIBRATION CERTIFICATE NO: 46493

ISSUED BY: SHAWCITY LIMITED
DATE: 06/09/2012

APPROVED SIGNATORY:

NAME: Dave Endacott

CUSTOMER: Severn Trent Laboratories Ltd
INSTRUMENT: MiniRAE 2000
SERIAL NUMBER: 110-901775

CALIBRATION METHOD: CM03
AMBIENT CONDITIONS: 20°C ± 2°C and 50% (± 20%) RH

Prior to calibration the instrument was allowed to stabilise in the laboratory for at least 30 minutes.
The instrument was calibrated by exposing the sensor to known values of gas concentrations.
All gases were sampled through the complete probe and in line filter, where applicable.
The reference value is that generated by the certified source and the indicated value is that measured by the instrument.

CALIBRATION RESULTS

GAS	LOT No	REF. VALUE	INDICATED VALUE
Isobutylene	1300579	100 ppm	100 ppm

COMMENTS:
The reported uncertainty is based on a standard uncertainty multiplied by a coverage factor of $k=2$.
This provides a level of confidence of uncertainty of approximately 95%.
The uncertainty of measurement is ±2 ppm.
The results indicate that the instrument conforms to the applicable parts of the published specification.

Tel: 01793 780622
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Appendix H – Phase 1 Ecological Survey

National Grid

Bradford Road Gasholder Station, Bradford, Manchester

Extended Phase 1 Habitat Survey

October 2012

Quay West, Trafford Wharf Road, Salford Quays, Manchester, M17 1HH

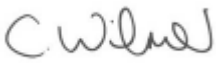
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Executive Summary

Site Description and Scope of Works		
The study site is situated within Bradford, Manchester (OS Grid Reference: 386580 399170) and consists largely of hardstand with areas of areas of broadleaved woodland, dense scrub and tall ruderal habitats. The purpose of the Extended Phase 1 Habitat survey was to identify any potential ecological constraints to the proposed works at the earliest opportunity to prevent any future delays to proposed works and provide advice to reduce the risk of future development at the site breaching any UK or European nature conservation legislation.		
Potential Constraints	**Yes**	**No**
Bats		
Has the site been assessed for bats?	✓	
Are there any structures or trees on site which have the potential to support roosting bats? (see section 5.2)	✓	
Breeding Birds including Barn Owls		
Has the site been assessed for breeding birds including barn owls?	✓	
Will areas of hedgerow, scrub, woodland, trees or other features likely to be used by nesting birds be affected by the proposal? (see section 5.2)	✓	
Badgers		
Has the site been assessed for badgers?	✓	
Is there any evidence of badgers on or near the application site including setts, foraging or commuting? (see section 5.1)		✓
Great crested newts		
Has the site been assessed for great crested newts?	✓	
Is there suitable habitat for great crested newts on, or close to the application site? (see section 5.2)		✓
Reptiles		
Has the site been assessed for reptiles?	✓	
Is there suitable habitat on the site for reptiles? (see section 5.2)		✓
Other features of nature conservation interest		
Does the application site support Habitats of Principal Importance or Local Biodiversity Action Plan Priority Habitats?		✓
Does the application site support Species of Principal Importance or Local Biodiversity Action Plan Species?	Potential	
Hedgehog *Erinaceus europaeus*		
Have details of biodiversity enhancements been included with the application?	Unknown	
Recommendations	**Yes**	**No**
Are further surveys recommended to inform the ecological impact assessment?	✓	
• Bat emergence surveys at brick wall (between April – September) • Himalayan balsam was recorded on site. If any of the areas affected are to be directly impacted by the proposed improvement works, then detailed mapping is recommended to inform an Invasive Species		

Management Plan to ensure that that this invasive species is dealt with appropriately, and does not spread during works to previously unaffected areas.		
Is mitigation (including avoidance/compensation) and enhancement recommended?	✓	
• Vegetation clearance to be timed outside of the bird breeding season where possible (March to September inclusive). If this is not possible, then a thorough check should be made for nesting birds prior to any vegetation clearance taking place. If any active nests are found they must be retained in situ, together with surrounding vegetation until all the young have hatched. • It is recommended that new areas of soft landscaping be planted with native species of local provenance. This approach should apply both any tree/scrub species planted, as well as the ground flora/grass mixes sown. • To enhance the biodiversity value of the site it is recommended that bat boxes and bird boxes be installed on retained boundary trees. Advice should be sought from a suitably experienced ecologist to ensure that an appropriate model of bat/ bird box is installed and that suitable locations are chosen - i.e. avoiding direct illumination and disturbance, as far as practicable.		

1.0 Introduction

1.1 Background

WYG was commissioned by National Grid in September 2012 to complete an Extended Phase 1 Habitat survey of land at Bradford Road, Manchester (hereafter referred to as 'The Site').

1.2 Site Description

The study site is situated within Bradford, Manchester (OS Grid Reference: 386580 399170) and is approximately 2 ha in size.

The site is split into two areas, including:

- Gas Holder Station; and
- [redacted]

The extent of the site application boundary is shown on the Phase 1 Habitat Map (Figure 1).

The Gas Holder Station site consists largely of hardstand, with an area of young broadleaved self set woodland along the western boundary of the site and dense scrub to the northwest and south of the site. Tall ruderal vegetation is also present across the site and a strip of amenity grassland to the north. The Surplus Land site includes a small area of broadleaved self set woodland to the northwest, dense scrub and tall ruderal vegetation.

An active railway line is present immediately adjacent to the western boundaries of both areas of the site. Alan Turing Way forms the northern boundary and the Ashton Canal the southern boundary. An area of hardstand, in use as car parking, is present to the east of both areas, which also extends between the Gas Holder Station site [redacted] as presented in Figure 1.

1.3 Development Description

Ground investigations are currently taking place on site to update the risk status of the site on the National Grid system with a view to remediating the site, if necessary, in the future.

1.4 Survey Objectives

The principal objectives of this study were to undertake a site walkover survey to identify habitats present and to make an assessment of the site's potential to support legally protected species or other species of nature conservation importance. The survey also aimed to identify any controlled non-native plant species e.g. Japanese knotweed *Fallopia japonica* or giant hogweed *Heracleum mantegazzianum* on the site.

2.0 Planning and Legislative Framework

The planning and legislative framework for the site can be found in Appendix A and covers the following areas:

- National planning guidance
- Local planning guidance
- Biodiversity policy guidance
- Designated sites
- Protected and notable species
- Invasive species

3.0 Methodology

3.1 Desk Study

Greater Manchester Ecology Unit (GMEU) was consulted to obtain ecological data, specifically relating to legally protected sites and species within 2km of the proposed development site.

In addition, a search for relevant nature conservation information was made of the following websites;

- www.magic.gov.uk - Multi-Agency Geographic Information for the Countryside (MAGIC)
- www.ukbap.org.uk – UK Biodiversity Action Plan (UK BAP)
- www.gmbp.org.uk – Manchester Biodiversity Action Plan (Local BAP)

3.2 Site Walkover

A walkover of the site was conducted on the 4th September 2012, prior to the commencement of any site works. The field survey was undertaken by WYG Consultant Ecologist, Katie Burrough AIEEM[1]. The survey was conducted inside the optimum time period for recording vegetation, April – September (inclusive).

3.2.1 Flora

Habitats on site were identified according to standard Phase 1 Habitat Survey (JNCC, 2010) definitions. Any legally protected habitats and/or other habitats of nature conservation importance, e.g. UK or Manchester Biodiversity Action Plan (BAP) priority habitats, were recorded. The site was also searched for the invasive, non-native plant species Japanese knotweed, giant hogweed and Himalayan balsam, all of which are listed on Schedule 9, Part II of the Wildlife and Countryside Act 1981 (as amended). Inclusion on Schedule 9 makes it illegal 'to plant or otherwise encourage' the growth of these plant species in the wild.

3.2.2 Fauna

In conjunction with the habitat survey, the potential for the site to support legally protected faunal species and/or faunal species of nature conservation importance e.g. UK or Manchester Biodiversity Action Plan (BAP) priority species was assessed.

[1] Associate member of the IEEM Institute of Ecology and Environmental Management

Detailed faunal surveys were not undertaken at this time; rather this assessment aims to determine the potential for the site to support each species / species group, based on the known range of each species / species group and the suitability of the habitats within the site. In addition, field signs or sightings of such species were recorded if seen.

Great Crested Newt

The site was surveyed for its potential to provide terrestrial habitat to support great crested newts (GCN) and a desk study was conducted to identify ponds within 500m of the site. GCN populations are often dependent on there being several ponds close together, linked by suitable terrestrial habitats. The assessment of terrestrial habitat was based on the Great Crested Newt Mitigation Guidelines (Natural England, 2001).

Reptiles

The site was appraised for its suitability to support reptiles. The assessment was based on guidance outlined in the Joint Nature Conservation Committees' published *Herpetofauna Workers' Manual* (Joint Nature Conservation Committee, 2003) and Reptile Habitat Management Handbook (Natural England 2010).

Bats

All trees on site were assessed for their potential to support roosting bats using the criteria outlined in Appendix B and subsequently the value of the site for bats was assessed using the criteria set out in the *Bat Survey Good Practice Guidelines* (Bat Conservation Trust, 2012).

Badger

The site was surveyed for evidence of badger setts or other badger activity such as paths, latrines or signs of foraging. Methodologies used and any setts recorded were classified according to published criteria (Harris, Cresswell & Jefferies, 1989).

3.2.3 Survey Limitations

The optimum season for undertaking Phase 1 Habitat surveys is April – September (inclusive). This survey was undertaken in September and was therefore completed within the optimal survey season for floral surveys.

To determine likely presence or absence of protected species usually requires multiple visits at suitable times of the year. As a result, this survey focuses on assessing the potential of the site to support species

of note, which are considered to be of principal importance for the conservation of biodiversity, especially those given protection under UK or European wildlife legislation.

This report therefore provides a comprehensive assessment of the ecological interest of the site present on the day of the visit and highlights areas where further survey work may be recommended.

The details of this report will remain valid for a period of two years. Beyond this period, if works have not yet been undertaken, it is recommended that a new review of the ecological conditions is undertaken.

4.0 Baseline Conditions

4.1 Pre-existing Ecological Information

4.1.1 Designated Sites

Statutory designated sites

MAGIC and GMEU recorded the following statutory designations to fall within 2km of the site:

Table 1 – Statutory sites located within 2km of the site boundary

Designation	Site Name	Distance from site	Direction from site	Comments
Local Nature Reserve (LNR)	Clayton Vale	760m	E	Clayton Vale covers approximately 4 sq miles of urban countryside and offers a number of different habitats for wildlife including; ponds, river, woodland and meadows.

Non statutory designated sites

GMEU recorded 4 local wildlife Sites of Biological Interest (SBI) within 2km of the site (see Table 1 below). Local Wildlife sites are areas of land which are considered to be of significant value for wildlife in a District/Borough/Unitary Authority context.

Table 2 - Local Wildlife Sites located within 2km of the site boundary

Name	Distance from site (km)	Direction from site	Comments
Ashton Canal (West)	Falls immediately adjcaent to site	South	Grade A SBI. It is important for its submerged aquatic flora, including floating water plantain *Luronium natans* a European Protected Species.
Rochadale Canal Stotts Lane – Ducie Street Basin	435m	West	Grade A SBI. It is regionlly important as it supports aquatic habitat and species, including floating water plantain.
Clayton Vale	1315m	East	Grade C SBI, which supports reedbeds.
Bank Bridge Meadow	560m	East	-

4.1.2 Protected and Notable Species Records

GMUE recorded the following protected and notable species were recorded within 2km of the site boundary:

Table 3 – Protected and notable species located within 2km of the site boundary

Scientific name	Common name	Designation	Closest recorded distance from centre of site (km)	Direction from site
Pipistrellus sp.	pipistrelle sp.	EPS WCA LBAP	0.8	W
Pipistrellus pygmaeus	Soprano pipistrelle	EPS WCA LBAP	1.3	NE
Myotis sp.	Myotis Bat species	EPS WCA	1.8	NW
Pipistrellus pipistrellus	Common pipistrelle	EPS WCA LBAP	0.3	SW

Scientific name	Common name	Designation	Closest recorded distance from centre of site (km)	Direction from site
Myotis daubentonii	Daubentons Bat	EPS WCA	0.8	E
Anguis fragilis	Slow worm	NERC WCA UKBAP LBAP	0.7	N
Arvicola terrestris	Water vole	NERC WCA UKBAP LBAP	1.3	E
Meles meles	Badger	PBA UKBAP LBAP	0.2	E
Bufo Bufo	Common Toad	NERC UKBAP	1.3	E
Charadrius dubius	Little Plover	WCA	1.1	SE

EPS: Species listed under the Conservation of Habitats and Species Regulations (2010).

NERC: Species listed under section 41 of the Natural Environment and Rural Communities Act (2006).

WCA: Species listed under the Wildlife and Countryside Act (1981)

PBA: Protection of Badgers Act (1992)

UKBAP: UK Biodiveristy Action Plan species

LBAP: Local Biodveristy Action Plan species

4.1.3 Notable Habitats

MAGIC recorded the following notable habitats to be present within 500m of the site boundary:

Table 4 – Notable Habitats within 500m of the site boundary

Habitat	Distance from site boundary	Direction from site boundary
National Inventory of woodland and trees	160m	East

4.1.4 Proximity of nearest water body/course to site

OS maps did not record any ponds to fall within 500m of the site boundary.

The Ashton Canal is located immediately south of the of the Surplus Land and the River Medlock is located 160m east of the Gas Holder Station site boundary.

5.0 Results

The results of the Extended Phase 1 Habitat survey are shown on the Phase 1 Habitat Plan (Figure 1). Site photographs are presented in Appendix C and target notes Appendix D. A description of the site and an assessment of its potential to support key faunal groups are provided below.

5.1 Habitats

The site was predominantly composed of hardstand with areas of young / semi-mature broadleaved, self set woodland, dense scrub and tall ruderal vegetation.

Broadleaved woodland

Broadleaved, self set woodland was present along the western boundary of the Gas Holder Station area (Appendix C, photograph 1). Typical species included young / semi-mature alder *Alnus glutinosa*, willow *salix sp*. and silver birch *Betula pendula*. Ground flora comprised predominantly moss species with soft rush *Juncus effusus*, horsetail *Equisetum arvense* and occasional common spotted orchid *Dactylorhiza fuchsii*.

[redacted]

Scattered trees

Scattered trees were spread across both area of the site and included young and semi-mature willow and silver birch and occasional sycamore *Acer pseudoplatanus*.

Scrub

Scrub areas were present towards the south and northwest of the Gas Holder Station area (Appendix C, photograph 3), [redacted] Typical species included buddleia *Buddleja davidii*, silver birch, willow and bramble *Rubus fruticosus* agg., with occasional rowan *Sorbus aucuparia*, ash *Fraxinus excelsior*, dog rose *Rosa canina*, hawthorn *Crataegus monogyna* and English oak *Quercus robur* saplings.

Tall ruderal

Tall ruderal was present at both areas of the site along the fringes of dense scrub and at the verges of the hardstand areas. Typical species included rosebay willow-herb *Chamerion angustifolium*, creeping thistle *Cirsium arvense*, bramble, common ragwort *Senecio jacobaea*, Yorkshire fog grass *Holcus lanatus*, hogweed *Heracleum sphondylium*, bugle *Ajuga reptans*, colts foot *Tussilago farfara*, chicory *Chichorium intybus* and doves foot cranesbill *Geranium molle* (Appendix C, photograph 5).

Poor semi-improved grassland

Poor semi-improved grassland was present to the east of the Surplus Land area of the site (Appendix C, photographs 6). Typical species included, red fescue *Festuca rubra* agg, red clover *Trifolium pratense*, chicory, creeping buttercup *Ranunculus repens*, ribwort plantain *Plantago lanceolata*, black medic *Medicago lupulina* and occasional dock *Rumex obtusifolius.* The grassland also displayed a high moss content.

Ephemeral / short perennial

An area of ephemeral / short perennial vegetation was present towards the south of the Gas Holder Station area of the site. Typical species included stonecrop *sedum sp.*, black medic and pineapple weed *Matricaria matricarioides.*

Brick Wall

Brick walls were present towards the west of Gas Holder Station area [redacted] The walls extended to a height of approximately 5m. Missing bricks and mortar were present along the wall located within the Gas Holder Station area (Appendix C, photograph 7)[redacted]

Invasive species

The invasive species, Himalayan balsam *Impatiens glandulifera* was present within both the Gasholder Station[redacted]

Habitats on Adjacent Land

The Ashton Canal formed the southern boundary of the site (Appendix C, photograph 10). Alan Turing Way formed the northern boundary. An active railway line was present along the western boundary, with New Viaduct Street beyond. Car parking was present to the east of the site, forming part of the Sports City complex.

5.2 Fauna

Great Crested Newt

Great crested newts (GCN's) require ponds for breeding, however no ponds were recorded to be present within 500m of the site boundaries.

Additionally, while suitable terrestrial habitat is present on site to provide forgaging and refuge opportunities in the form of scrub and grassland, the adjacent habitat is unsuitable for GCN's being largely hardstand forming part of the Sports City Complex. The Ashton Canal forms a barrier to GCN's entering the site from the south and New Viaduct Street and adjoining live railway form a barrier to the west.

Reptiles

The tall ruderal and scrub habitats offer potential to support common reptile species such as common lizard *Lacerta vivipara*, slow worm *Anguis fragilis* and grass snake *Natrix natrix.* However, the site is largely isolated from the wider area with the Ashton Canal forming a physical barrier to reptiles entering the site to the south and the railway line and New Viaduct Street forming a barrier to the west. Addtionally, the adjacent habitat is unsuitable for repitles comprising large areas of hardstand, in use as car parking, which form part of the Sports City complex.

Breeding Birds

The woodland and scrub areas within the site are considered likely to offer suitable nesting habitat for common birds during the breeding season and roosting and feeding habitat for the same range of bird species during the remainder of the year.

The open areas of hard stand may also offer potential habitat for ground nesting birds species such as skylark, lapwing and little ringed plover. However, no observations of ground nesting birds were recorded during the survey.

Bats

All suitable features on site, including all buildings, brick walls and trees were checked for suitablility to

support roosting bats.

Two buildlings were recorded on site (see Figure 1) and both were assessed as having **negligible** potential to support roosting bats. Building 1 was recorded to be a well sealed, single story building constructed of corrugated metal. Building 2 was noted to be a brick built, flat roofed structure, offering exposed condtions with missing windows and doors. Full building inspection results are detailed in Appendix E.

Brick walls, which support a railway line are located within both within the Gas Holder Station area a[redacted](see Figure 1 for locations). The walls within the Gas Holder Station area were recorded to have **low** potential to support roosting bats. Missing bricks and mortar were observed, in addition to the remains of a concrete wall veneer along the southern aspect of the wall. [redacted]sea[redacted]Full inspection results are detailed in Appendix E.

All trees on site are immature / semi-mature and displayed **negligible** potentail to support roosting bats.

The woodland areas, scrub areas and scattered trees within the site have the potential to offer suitable foraging habitat for bats as they support populations of night flying insects which bats feed upon. In addition the brick walls have the potential form linear features for commuting bats.

Badger

The site does not offer any suitable habitat for badger sett excavation being largely flat with a high stone content. Additionally no evidence of badger activity was recorded during the survey.

Other Protected and Notable Species

No signs of any other protected or notable species were recorded on the site walkover. However, the site provided habitat suitable for the hedgehog (*Erinaceus europaeus*) which is a UK BAP species.

A number of common blue (*Polyommatus icarus*) butterflys were observed on site during surveying.

6.0 Discussion of Potential Ecological Constraints

6.1 Designated Sites

The Ashton Canal (West) SBI adjoins the southern boundary of the site and is a Grade A SBI. It is important for its submerged aquatic flora, including floating water plantain *Luronium natans* (a European Protected Species).

Standard best practice mitigation measures should be employed, for example to prevent spillages of pollutants, particularly in the vicinity of Ashton Canal (west) SBI. The site workforce should be briefed about the ecological issues on the site by an Ecological Clerk of Works prior to the commencement of activities in the vicinity of the SBI with regards to their responsibility to work in accordance with mitigation measures and wildlife legislation.

6.2 Habitats

The Gas Holder Station [redacted] are composed of hardstand with areas of young / semi-mature broadleaved woodland, dense scrub and tall ruderal vegetation. An area of amenity grassland was present to the north of the Gas Holder Station area and a small area of ephemeral / short perennial vegetation to the south of the area; whilst an area of poor semi - improved grassland was present to the east of the Surplus Land.

The poor semi-improved grasslands, tall ruderal, scrub and scattered trees are largely considered to be of low nature conservation value as these habitats contain typical, common species which are locally abundant in the local area therefore their loss is not considered to be ecologically significant. However, as a mosaic these habitats hold value as a brownfield site, due to the range of opportunities they present.

Additionally 'Open Mosaic Habitats [OMH] on Previously Developed Land' is a UKBAP priority habitat. The habitats on site meet the criteria required to be designated as an OMH showing spatial variation with the presence of early successional communities and bare substrate (DEFRA, 2010)[2]

[2]DEFRA (2010) Definition and mapping of open mosaic habitats on previously developed land: Phase 1

Native woodland is a priority habitat within the Manchester Biodiversity Action Plan, however the woodland on site comprises largely matured scrub species and is not considered to be representative of the BAP habitat, native woodland. Despite this, the woodland, scattered trees and scrub habitats on site may provide foraging for bats, birds, foxes and small mammals. Similarly the woodland, trees, scrub and buildings also have the potential to support nesting birds.

Furthermore, the hardstand is of ecological value as it has the potential to be of importance for ground nesting birds and may become more important for invertebrates as it is colonised by vegetation.

Himalayan balsam was identified within both the Gas Holder Station [redacted] (see Figure 1). This is listed as an invasive, non-native plant species in Schedule 9, Part II of the Wildlife and Countryside Act 1981 (as amended).

It is important to ensure that parts of the site previously unaffected by Himalayan balsam do not become contaminated – particularly land adjacent to the site and in different ownership. If any works are scheduled to occur within 10m of any areas infested by this invasive species it is recommended that a method statement be produced which outlines best practices and the correct procedure for working near invasive flora and water (http://publications.environment-agency.gov.uk/PDF/GEHO0410BSBR-E-E.pdf).

6.3 Protected/BAP Species

Only those species which are likely to be present on the site are considered further.

Breeding Birds

All breeding wild birds, their nests and eggs are protected by the Wildlife and Countryside Act 1981 (as amended) against intentional disturbance, damage and destruction during the breeding season.

Clearance of habitats suitable to support netsing birds such as scrub, trees and hard stand with grassland mosaics should be timed to occur outside the nesting season (March to September inclusive). If this is not possible each area of habitat to be cleared would need to be searched for nesting / ground nesting birds, prior to clearance by a suitably qualified ecologist. Addtionally, if building works are scheduled to take place during the bird breeding season it is recommended that each building and the brick wall be searched prior to demolition for nesting birds.

If a nest is found then the feature containing the nest and its immediate surroundings must be left

undisturbed until nesting is complete. This could result in delays to work. Similarly, site investigation operations would also need to take account of the presence of nesting birds during the breeding season and avoid damage or destruction of habitats containing nests.

Bats

All bats and their roosts receive full protection both under the *Conservation of Habitats and Species (Amendment) Regulations 2012* and the Wildlife and Countryside Act 1981 (as amended). The provisions of NERC Act 2006 require local authorities to have due regard to protected species when determining planning applications - also applies to bat species.

The brick wall within the Gas Holder Station area (see Figure 1 for location) dispalyed potential roosting opportunities for bats i.e. missing brickwork which may open into suitable roosting spaces. Therefore **further survey work** is necessary to establish bat presence.

Further bat survey work needs to be undertaken in accordance with the methodological guidance provided in the *'Bat Surveys –Good Practice Guidelines'* (Bat Conservation Trust, 2012). It is recommended that a minimum of two dusk emergence and / or pre-dawn re-entry surveys should be undertaken during the bats active season (April to September inclusive) during suitable weather conditions i.e. fairly warm and dry nights.

Evening emergence surveys are conducted from half an hour before sunset up to two hours after sunset. Surveys should be positioned at suitable vantage points to offer a clear view of any bats entering or leaving the brick wall. Each surveyor should be equipped with a bat detector to aid species identification and allow otherwise unseen bats to be recorded. All evidence of bat activity should be recorded on survey maps.

Should development proposals affect a a confirmed bat roost, a Natural England licence will be required, subject to planning permission being granted, to legitimise the disturbance/destruction of the roost.

6.4 Other protected / Notable Species

There is potential for hedgehogs to be present on site. Therefore it is recommended that personnel involved in vegetation clearance should be made aware of the potential presence of this species with care taken to avoid harming them. Particular attention should be paid during the period November to April when hedgehogs could be hibernating on site.

6.5 Invasive Species

Himalayan Balsam *Impatiens glandulifera* was recorded within both the Gas Holder Station area [redacted] (see Figure 1 and Appendix C, photographs 8 and 9).

This species is an invasive species listed under Schedule 9 of the Wildlife and Countryside Act (WCA) 1981 (as amended). This makes it an offence to plant it in the wild, knowingly allow it to spread, or otherwise cause it to grow in the wild. The Environmental Protection Act 1990 also list Himalayan balsam as 'controlled waste' which should be disposed of properly. These provisions mean that if this species occurs on a site proposed for development or other ground disturbance works then control of this species is likely to be required.

Therefore, if works are required within these areas, we would recommend in the first instance that the locations of these species are accurately mapped (using a GPS or topographical survey). This information can then be used to produce a method statement for removing the contaminated area and avoiding the accidental spread of these species during works.

Successful treatment of affected areas can take a number of years, and it is recommended that control measures are implemented as soon as possible to avoid future delays.

6.6 Enhancements

Under the National Planning Policy Framework opportunities should be sought where possible for nature conservation enhancement. It is recommended that the new areas of soft landscaping are planted with native species of local provenance. This approach should apply both any tree/scrub species planted, as well as the ground flora/grass mixes sown.

To enhance the biodiversity value of the site it is recommended that bat boxes and bird boxes are installed. Advice should be sought from a suitably experienced ecologist to ensure that an appropriate model of bat/ bird box is installed and that suitable locations are chosen - i.e. avoiding direct illumination and disturbance, as far as practicable.

7.0 Summary of Survey Recommendations

To ensure legal compliance, it is recommended any vegetation or ground clearance is avoided during the bird nesting season (March–September inclusive) or, if necessary, preceded by a search for nesting / ground nesting birds by a suitably experienced ecologist. If birds are found to be nesting in any vegetation, then work on or near these areas will not be able to proceed until all of the young birds have fledged.

It is recommended that areas of Himalayan balsam be demarcated with a 3 metre buffer to ensure the stands are not disturbed or caused to spread. If works are to take place within 3 metres of the stands of Himalayan Balsam recorded on site (see Figure 1) then a detailed management plan on how the species will be treated and/or removed will be required.

The brick wall within the Gas Holder Station area (see Figure 1 for location) has low potential to support roosting bats, and further surveys are recommended to determine the likely presence or absence of roosting bats. A minimum of two dusk and / or pre dawn re entry surveys for roosting bats should be undertaken of the wall. Surveys should be concentrated on the areas and features with bat roost potential which have been identified in this report (Appendix E).

Recommended further surveys / actions include (optimum survey period indicated in brackets):

- Vegetation clearance to be timed outside of the bird breeding season (March to September inclusive);
- Two dusk emergence and / or pre dawn re entry surveys (May to September inclusive, optimum period May – August); and
- Detailed survey to map Himalayan balsam to inform treatment Method Statement.

8.0 References

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Figures

Figure 1 – Phase 1 Habitat Map



Key

- Target note
- Improved grassland
- Short perennial
- Scrub - Scattered
- Scattered tree
- Brick wall
- Himalayan Balsam
- Broad-leav... woodland. Semi-natural
- Building
- Hardstanding
- Scrub - Dense
- Tall Ruderal
- Amenity grassland

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Title
Phase 1 Habitat Map

Project
Bradford Road Gasholder Station, Manchester

Figure
1

Client
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Appendices

Appendix A – Planning and Legislative Framework

This section provides information on:

- National planning guidance
- Local planning guidance
- Biodiversity policy guidance
- Designated sites
- Protected and notable species
- Invasive species

National Planning Guidance

National planning policy is governed by a range of documents including the Local Authority's Structure Plan and Local Plan are local planning policy documents that reflect national policy. Other relevant documents that inform these documents (with regards to the biodiversity protection) are the UK Biodiversity Action Plan (UKBAP) and the local Biodiversity Action Plan (LBAP).

Local planning guidance

The current statutory development plan for Manchester City Council which covers the site is the Unitary Development Plan, which sets out the council's policies and proposals for the use and development of land and buildings.

Biodiversity policy guidance

'Biodiversity: The UK Action Plan' (HMSO 1994; updated 2007) was developed in response to The Earth Summit, held in Rio de Janeiro in 1992. The UK Biodiversity Action Plan lists a number of priority habitats and species for conservation action in the UK. Although the Action Plan does not confer any statutory legal protection, in practice many of the species listed already receive statutory legal protection under UK and/or European legislation. In addition, Priority Species and Habitats in the UK BAP are Species and Habitats of Principal Importance for the Conservation of Biodiversity under Section 41 of the Natural Environment and Rural Communities Act (NERC Act 2006). Under the NERC Act (2006), local authorities have a Duty to have regard to the conservation of biodiversity in exercising their functions. The Duty affects all public authorities and aims to raise the profile and visibility of biodiversity, to clarify existing commitments with regard to biodiversity, and to make it a natural and integral part of policy and decision making.

As part of the action plan process, Local Biodiversity Action Plans (LBAPs) must also be produced for every county in the UK. Other public bodies may also produce LBAPs. These LBAPs highlight local biodiversity issues, with specific action plans being implemented for priority habitats and species where they occur.

The LBAPs set out a series of objectives for the conservation of priority species and habitats, (as identified in the UK-wide Biodiversity Action Plan of 1994), where they occur in each district, county or region.

The site falls within the Manchester Biodiversity Action Plan (BAP), which includes 8 Habitat Action Plans and 9 Species Action Plans (see Table 1 below).

Table 1 Greater Manchester BAP Habitat and Species Action Plans

Habitat Action Plans	Species Action Plans
Grasslands	Hares
Hedgerows	Great Crested Newt
Native woodland	Willow tit
Ponds / lodges	Water voles
Lowland mossland	Bittern
Reedbed	Black redstart
Canals	Native black poplar
Urban managed greenspace	Twite
	Bats
	Floating water plantain

Designated sites

Statutory Designations

Sites with statutory designations receive varying degrees of legal protection under UK statute and European Directives. There are a number of statutory designations used for sites of high nature conservation value in the UK, which are made depending upon the importance of the site in a local, regional, national or international context.

Sites of Special Scientific Interest (SSSI)

SSSIs provide statutory protection for the best examples of the UK's flora, fauna, or geological or physiographical features. Originally notified under the National Parks and Access to the Countryside Act 1949, SSSIs are now fully protected under the Wildlife and Countryside Act 1981 (as amended). Improved provisions for the protection and management of SSSIs were introduced by the Countryside and Rights of Way Act 2000.

Special Areas of Conservation (SACs)

SACs are strictly protected sites designated by the UK Government under the EC Habitats Directive which is currently transposed into UK law by the Conservation of Habitats and Species Regulations 2010. Article 3 of the Habitats Directive requires the establishment of a European network of important high-quality conservation sites that will make a significant contribution to conserving the 189 habitat types and 788 species identified in Annexes I and II of the Directive (as amended). The listed habitat types and species are those considered to be most in need of conservation at a European level (excluding birds) (www.jncc.gov.uk).

Special Protection Areas (SPAs)

SPAs are strictly protected sites designated by the UK Government under the EC Birds Directive in accordance with Article 4 of the EC Directive on the conservation of wild birds (79/409/EEC), also known as the Birds Directive, which came into force in April 1979. This is currently transposed into UK law by the Conservation of Habitats and Species Regulations 2010. SPAs are classified for rare and vulnerable birds, listed in Annex I to the Birds Directive, and for regularly occurring migratory species (www.jncc.gov.uk). SPAs, together with SACs, form the Natura 2000 network.

National Nature Reserves (NNRs)

Sections 16 to 29 of the National Parks and Access to the Countryside Act 1949 in England enabled the Nature Conservancy Council for England (NCCE), now Natural England, to establish nature reserves. These provisions were strengthened by the Wildlife and Countryside Act 1981. An NNR is an area which is among the best examples of a particular habitat. NNRs are of national importance.

Local Nature Reserves (LNRs)

Local Nature Reserve (or LNR) is a statutory designation made under Section 21 of the National Parks and Access to the Countryside Act 1949 by principal local authorities. LNRs are of local, but not necessarily national, importance.

Non-Statutory Designations

Non-statutory sites are afforded no statutory legal protection, but are normally recognised by local planning authorities and statutory agencies as being of local nature conservation value. The protection afforded to such sites is usually discretionary, through Local Plan Policies (see above). Non-statutory sites are designated by the local authority, usually in partnership with the County Wildlife Trust (or equivalent). Sites of Biological Interest (SBI's) are non-statutory designations used locally by Manchester City Council, to protect locally valued sites of biological diversity.

Protected and notable species

A number of species are protected under UK and international legislation. In the UK, primary protection is provided under the Wildlife and Countryside Act 1981 (as amended). Species of European importance receive additional protection under the Conservation (Natural Habitats, &c.) Regulations 2010, as amended; others may receive protection through specific legislation (such as the Protection of Badgers Act, 1992).

Species listed under Section 41 of the NERC Act 2006, whilst not necessarily legally protected, can be a material planning consideration.

Invasive species

Japanese knotweed, giant hogweed and Himalayan Balsam are listed under Section 14 of the Wildlife and Countryside Act 1981 (as amended). This makes it an offence to plant them in the wild or otherwise cause them to grow. The Environmental Protection Act 1990 also lists them as 'controlled waste' to be disposed of

properly. These provisions mean that if these species occur on a site proposed for development or other work which may disturb the ground, control of these species is likely to be required.

Appendix B –Bat Potential Criteria

Features of buildings and built structure that are considered to influence use by bats (taken from the Bat Survey Good Practice Guidelines (Bat Conservation Trust, 2012).

Likelihood of bats being present	Feature of the building or built structure and it's location
Higher	• Pre 20th century or early 20th century construction • Agricultural buildings of traditional brick, stone or timber construction • Large and complicated roof void with unobstructed flying spaces • Large (>20cm) roof timbers with mortise joints, cracks and holes • Entrances for bats to fly through • Poorly maintained fabric providing ready access points for bats into roofs, walls, bridges, but at the same time not being too draughty and cool. • Roof warmed by the sun, in particular south facing roofs • Weatherboarding and/or hanging tiles with gaps • Low level of disturbance by humans • Bridge structures, follies, aqueducts and viaducts over water and/or wet ground • For rarer species building or built structure is located in the core area of the distribution • Buildings and built structures in proximity to each other providing a variety of roosting opportunities throughout the year • Buildings or built structures close to good foraging habitat, in particular mature trees, parkland, woodland or wetland, especially in rural setting
Lower	• Modern, well maintained buildings or built structures that provide few opportunities for access by bats • Small cluttered roof space • Buildings and built structures comprised primarily of pre-fabricated steel and sheet materials • Cool, shaded, light or draughty roof voids • Roof voids with a dense over of cobwebs and no sections of clean ridge board • High levels of regular disturbance • Highly urbanised location with few or no mature trees, parkland, woodland or wetland • High levels of external lighting.

Features of trees commonly used by bats for roosting and shelter, and field signs that may indicate use of trees by bats(taken from the Bat Survey Good Practice Guidelines (Bat Conservation Trust, 2012).

Features of trees used as bat roosts	Signs indicating possible use by bats
Natural holes Woodpecker holes Cracks/splits in major limbs Loose bark Hollows/cavities Dense epicormic growth (bats may roost within it). Bird and bat boxes	Tiny scratches around entry point Staining around entry point Bat droppings in/around/below entrance Audible squeaking at dusk or in warm weather Flies around entry point Distinctive smell of bats Smoothing of surfaces around cavity

Criteria for assessing the value of habitat features within the landscape for roosting bats (based on the Bat Survey Good Practice Guidelines, Bat Conservation Trust, 2012).

Value	Criteria
Increasing site value for bats Low ↓ High	• No features likely to be used by bats (for roosting, foraging and commuting). • Small number of potential (opportunistic) roost sites (i.e. probably not maternity roosts or hibernacula). • Isolated habitat that could be used by foraging bats e.g. a lone tree or patch of scrub (not parkland). • Isolated site not connected by prominent linear features to suitable adjacent / other foraging habitat. • Several potential roosts in the buildings, trees or other structures. • Habitat could be used by foraging bats e.g. trees, shrub, grassland or water. • Site is connected with the wider landscape by linear features that could be used by commuting bats e.g. lines of trees and scrub or linked back gardens. • Buildings, trees or other structures (such as mines, caves, tunnels, ice houses and cellars) with features of particular significance for roosting bats. • Habitat of high quality for foraging bats e.g. broadleaved woodland, tree-lined watercourses and grazed parkland. • Site is connected with the wider landscape by strong linear features that would be used by commuting bats e.g. river/stream valleys or hedgerows. • Site is close to known roost. • Bats recorded or observed using an area for foraging or commuting close to a potential roost.
Confirmed presence	• Evidence indicates a building, tree or other structure is used by bats e.g.: ○ bats seen roosting or observed flying from a roost or freely in the habitat ○ droppings, carcasses, feeding remains, etc. found; ○ and/or bats heard 'chattering' inside on a warm day or at dusk.

Appendix C – Site Photographs



Photograph 1 – Self set, semi natural broadleaved woodland located along the western boundary of the Gas Holder Station site



Photograph 2 – Self set, broadleaved woodland located to the northwest of the Surplus Land site



Photograph 4 - Dense scrub located towards the southern boundary of the Gas Holder Station site.

[redacted]

[redacted]



Photograph 7 - Evidence of missing bricks and mortar on wall located towards the west of the Gas Holder Station site



[redacted]



Appendix D – Target Notes

Target Note	Comment
1	Amenity grassland. Typical species include Yorkshire fog grass *Holcus lanatus*, broadleaved *dock Rumex obtusifolius*, creeping buttercup *Ranunculus repens*, common vetch *Vicia sativa*, white clover *Trifolium repens*, soft rush *Juncus effusus*, dandelion *Taraxacum officinale* agg. and mosses. .
2	Dense scrub. Typical species buddleia *Buddleia davidii*, ash *Fraxinus excelsior*, willowherb *Chamerion angustifolium*, bramble *Rubus* agg., rowan *Sorbus aucuparia* and silver birch *Betula pendula*.
3	Building 1. Single story building composed of metal corrugated walls and roof. Well sealed - negligible bat potential.
4	Tall ruderal vegetation and scattered scrub present along boundary features. Typical species include buddleia *Buddleia davidii*, willowherb *Chamerion angustifolium*, moss species, wild strawberry *Fragaria vesca*, doves foot cranesbill *Geranium molle*, chicory *Chichorium intybus,* bugle *Ajuga reptans*, colts foot *Tussilago farfara*, Yorkshire fog grass *Holcus lanatus*, English oak sapling *Quercus robur*, willow *salix sp*, hawthorn *Crataegus monogyna*.
5	Young broadleaved woodland. Typical species alder *Alnus glutinosa*, willow *Salix sp*. and silver birch *Betula pendula*. Ground flora includes mosses, horsetail *Equisetum arvense*, bramble *Rubus fruticosus* agg., soft rush *Juncus effusus*. Occasional common spotted orchid *Dactylorhiza fuchsii* noted within woodland.
6	Ephemeral / short perennial. Typical species stonecrop *sedum sp.*, black medic *Medicago lupulina* and pineapple weed *Matricaria matricarioides*.
7	Broadleaved woodland. Typical species silver *birch Betula pendula* and willow *Salix sp*. sparse ground flora of nettle *Urtica dioica*, herb Robert *Geranium robertianum* and bracken *Pteridium aquilinum*.

8	Building 2. Small single story brick built building with flat concrete roof. Exposed internal conditions due to missing windows and doors. Negligible bat potential.
9	Poor semi improved grassland. Typical species red fescue *Festuca rubra*, red clover *Trifolium pratense*, chicory *Chichorium intybus*, creeping buttercup Ranunculus repens, ribwort plantain *Plantago lanceolata*, black medic *Medicago lupulina* and occasional dock *Rumex obtusifolius* and mosses.

Appendix E – External Bat Inspection

External Bat Inspection Bradford Road September 2012

Building description	Feature description	BCT rating	Photograph
Single storey building, comprising corrugated metal walls and roof.	Well sealed building with no internal roof void.	**Negligible**	
Brick building, with concrete roof attached to brick wall.	Exposed building with no doors or windows. No roosting potential.	**Negligible**	

External Bat Inspection Bradford Road September 2012

Building description	Feature description	BCT rating	Photograph
Brick wall located along the western extent of the Gas Holder Station site	Remains of concrete veneer along the southern aspect of the wall, offering bat roosting potential in the form of crawl space. Missing bricks and mortar along the western extent of the wall, offering bat roosting potential.	**Low**	 

External Bat Inspection Bradford Road September 2012

Building description	Feature description	BCT rating	Photograph
[redacted]			

Appendix F – Report Conditions

WYG Environment Planning Transport Ltd

C1 – Report Conditions

ECOLOGY PHASE 1 HABITAT SURVEY

This report is produced solely for the benefit of National Grid and no liability is accepted for any reliance placed on it by any other party unless specifically agreed in writing otherwise.

This report is prepared for the proposed uses stated in the report and should not be used in a different context without reference to WYG. In time improved practices, fresh information or amended legislation may necessitate a re-assessment. Opinions and information provided in this report are on the basis of WYG using due skill and care in the preparation of the report.

This report refers, within the limitations stated, to the environment of the site in the context of the surrounding area at the time of the inspections. Environmental conditions can vary and no warranty is given as to the possibility of changes in the environment of the site and surrounding area at differing times.

This report is limited to those aspects reported on, within the scope and limits agreed with the client under our appointment. It is necessarily restricted and no liability is accepted for any other aspect. It is based on the information sources indicated in the report. Some of the opinions are based on unconfirmed data and information and are presented as the best obtained within the scope for this report.

Reliance has been placed on the documents and information supplied to WYG by others but no independent verification of these has been made and no warranty is given on them. No liability is accepted or warranty given in relation to the performance, reliability, standing etc of any products, services, organisations or companies referred to in this report.

Whilst skill and care have been used, no investigative method can eliminate the possibility of obtaining partially imprecise, incomplete or not fully representative information. Any monitoring or survey work undertaken as part of the commission will have been subject to limitations, including for example timescale, seasonal and weather related conditions.

Although care is taken to select monitoring and survey periods that are typical of the environmental conditions being measured, within the overall reporting programme constraints, measured conditions may not be fully representative of the actual conditions. Any predictive or modelling work, undertaken as part of the commission will be subject to limitations including the representativeness of data used by the model and the assumptions inherent within the approach used. Actual environmental conditions are typically more complex and variable than the investigative, predictive and modelling approaches indicate in practice, and the output of such approaches cannot be relied upon as a comprehensive or accurate indicator of future conditions.

The potential influence of our assessment and report on other aspects of any development or future planning requires evaluation by other involved parties.

The performance of environmental protection measures and of buildings and other structures in relation to acoustics, vibration, noise mitigation and other environmental issues is influenced to a large extent by the degree to which the relevant environmental considerations are incorporated into the final design and specifications and the quality of workmanship and compliance with the specifications on site during construction. WYG accept no liability for issues with performance arising from such factors

November 2008

WYG Environment Planning Transport Ltd