# SIMS BARNSLEY IED BASELINE AND SITE CONDITION REPORT

## Sims Group UK Limited

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Sims Barnsley IED Baseline
and Site Condition Report
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## Quality Management

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# 1 INTRODUCTION

## 1.1 Background

1.1.1 Sims Group UK Limited (Sims) intends to submit an application to the Environment Agency to vary the current Environmental Permit (EPR/FB3903MA) for a metals recycling activity situated at Boulder Bridge Lane, Carlton, Barnsley, S71 3HJ. The current permit boundary is shown on *Drawing JER8362-PER-002*.

1.1.2 The permit is proposed to be varied from a waste operation to an installation under Schedule 1 Part 2 Section 5.4 Part A(1)(b)(iv) of the Environmental Permitting Regulations. To support the application for the permit variation, there is a requirement to provide an Industrial Emissions Directive (IED) Baseline Report as well as a Site Condition Report.

1.1.3 RPS has been commissioned by Sims to prepare the Site Condition and Baseline Report to support the proposed application to vary the current environmental permit. As such, this report has been prepared in accordance with the European Commission Guidance (Ref. 1) concerning baseline reports required under the IED and also the Environment Agency's H5 Horizontal Guidance.

1.1.4 The Industrial Emissions Directive (IED), Article 22, paragraphs 2 to 4, contains provisions for the definitive cessation of activities involving the use, production or release of Relevant Hazardous Substances (RHS) in order to prevent and tackle potential soil and groundwater contamination from such substances. A key tool in this respect is the establishment of a 'baseline report' where an activity involves the use, production or release of RHS and having regard to the possibility of soil and groundwater contamination. The report will form the basis for a comparison with the state of contamination upon definitive cessation of activities. Where information produced pursuant to other national or union law reflects the state at the time the report is drawn up, that information may be included in, or attached to, the baseline report.

1.1.5 In February 2004 the site first obtained a permit, issued to Firth Properties and Investments Ltd. The permit was transferred to William Firth and Son Ltd and June 2015 and varied in December 2015 to add 14 EWC codes. The permit was subsequently transferred to Sims Group UK Limited in February 2018.

1.1.6 RPS has prepared this report based on information and data available at the time of preparation of the report.

## 1.2 Overview of IED Requirements

1.2.1 Article 22(2) IED specifies that a baseline report should contain at least the following information:

1. information on the present use and, where available, on past uses of the site; and
2. where available, existing information on soil and groundwater measurements that reflect the state at the time the report is drawn up or, alternatively, new soil and groundwater measurements having regard to the possibility of soil and groundwater contamination by those hazardous substances to be used, produced or released by the installation concerned.

1.2.2 The EU guidance follows an eight stage process, covering the following main elements:

- Stages 1-3: to decide whether a baseline report is required;
- Stages 4-7: to determine how a baseline report has to be prepared; and
- Stage 8: to determine the content of the report.

## 1.3 Key Objectives

1.3.1 The key objectives of this report are to:

- Establish the environmental setting of the site and determine its environmental sensitivity;
- Identify activities that are currently undertaken at the site, including the identification of Relevant Hazardous Substances and preventative measures implemented to protect land and groundwater;
- Establish the extent of historical contamination in the soil and groundwater in areas where current and/or future processes may include similar potentially contaminating substances;
- To identify the Site Conditions at the site at the point of varying the permit for the facility (baseline condition) such that they may be used as a point of reference to determine whether the site has been contaminated during the site's permitted operation in line with IED and Environmental Permitting Regulations requirements; and
- To provide conclusions on whether land quality has been impacted from historical activities.

1.3.2 With respect to the IED eight stage process outlined in Section 1.2, a summary of each stage is outlined below along with where it is addressed within this report:

- Stage 1 - Identify hazardous substances used, produced or released at the installation. This is addressed within Section 3 of this report;
- Stage 2 - Identify relevant hazardous substances used, produced or released at the installation from the list of hazardous substances identified in Stage 1. This is addressed within Section 4 of this report;
- Stage 3 – Undertake an assessment of site-specific pollution possibility for relevant hazardous substances. This is addressed within Section 5 of this report;
- Stage 4 – Evaluation of Site History and potential for relevant hazardous substances to be present in soils and groundwater. This is addressed within Section 6 of this report;
- Stage 5 – Evaluation of Environmental Setting to determine the fate of potential emissions of relevant hazardous substances This is addressed within Section 7 of this report;
- Stage 6 – Site Characterisation that synthesises findings of Stage 5 and 6 on the basis of a Conceptual Site Model. This is addressed within Section 8 of this report;
- Stage 7 – Site Investigation (including sampling strategy). This is addressed within Section 9 of this report; and
- Stage 8 – Production of Baseline Report. This is addressed within Section 10 of this report.

## 1.4 Description of Permitted Activities

1.4.1 The site is permitted as a metal recycling facility under the Environmental Permit reference EPR/FB3903MA. The site obtained a permit in February 2004, issued to Firth Properties and Investments Ltd. The permit was transferred to William Firth and Son Ltd and June 2015 and varied in December 2015 to add 14 EWC codes. The permit was subsequently transferred to Sims Group UK Limited in February 2018.

1.4.2 In summary the current permitted activities include the following:

- Recycling or reclamation of metals and metals compounds including ferrous and non-ferrous metal and end of life vehicles containing neither liquids nor other hazardous components; and

- Storage of waste, including ferrous and non-ferrous metal and end of life vehicles containing neither liquids nor other hazardous components, consisting of materials intended for submission, on the site or elsewhere than on the site, to any of the operations listed in Part IV of Schedule 4 of the 1994 Regulations.

1.4.3 The permit allows the following wastes types, conforming to the relevant waste codes, to be stored and recycled at the site:

- Waste from shaping and physical and mechanical surface treatment of metals and plastics;
- Waste packaging, absorbents, wiping cloths, filter materials and protective clothing;
- End-of-life vehicles from different means of transport (including off-road machinery) and waste from dismantling of end-of-life vehicles and vehicle maintenance;
- Construction and demolition wastes (including excavated soil from contaminated sites);
- Waste from waste management facilities, off-site waste water treatment plants and the preparation of water intended for human consumption and water for industrial use; and
- Municipal wastes (household waste and similar commercial, industrial and institutional wastes) including separately collected fractions.

1.4.4 The site currently has a permitted throughput of 74,999 tonnes of scrap metal per annum, but is seeking to increase this to 90,000 tpa as part of this variation application, with a capacity of 126 tonnes per day for the grinding mill and 152 tonnes per day for the cable recycling plant.

1.4.5 Impermeable pavement is present in all areas of waste treatment and storage.

1.4.6 A site plan showing the layout and drainage plan is included within the Operating Techniques document.

1.4.7 The surface of the site is covered in impermeable pavement with a sealed drainage system that drains into surface water via interceptors.

1.4.8 A waste pre-acceptance and waste acceptance procedure is in place to prevent the acceptance of unsuitable wastes. Diesel and oil for use by onsite vehicles is stored in bunded tanks on impermeable surface with sealed drainage. All liquid containment is bunded and subject to visual checks daily.

1.4.9 For a full detailed description of the operating techniques for the installation, please refer to the document reference: Sims Group UK Limited, Operating Techniques for Sims Metal Management, Metal Recycling Facility at Boulder Bridge Lane Off Shaw Lane, dated December 2019.

1.4.10 There is no baseline data available from the original permit application in 2004 as it was not a requirement to produce a site condition report for waste activities at this time.

# 2 APPLICATION SITE CONDITION REPORT

## 2.1 Application Phase

2.1.1 This SCR, is prepared in accordance with the Environment Agency Horizontal Guidance Note H5, provides references to the various chapters of this report, where available information on the known current condition of the operational area is provided.

## 2.2 Site Condition Report Summary

| 1.0 Site Details | | |
|---|---|---|
| **Name of the applicant** | Sims Group UK Limited | |
| **Activity address** | Land at Boulder Bridge off Shaw Lane, Carlton, Barnsley, South Yorkshire, S71 3HJ | |
| **National grid reference** | 437600 410500 | |
| **Site area (ha)** | 2.9 Ha | |
| **Document reference and dates** for Site Condition Report at permit application and surrender | N/A | |
| **Document references for site plans** (including location and boundaries): | | Sims Group UK Limited Operating Techniques Barnsley_ December 2019 |

| 2.0 Condition of the land at permit issue | |
|---|---|
| Environmental setting including:<br>• Topography<br>• Geology<br>• Hydrogeology<br>• Hydrology<br>• Environmental Consents, Licences, Authorisations, Permits and Designations | Details of the environmental setting are provided in *Section 7* of this SCR and Baseline Report. |
| Pollution history including:<br>• Location, nature of incidents or direct discharges that may have affected soil or groundwater<br>• Historical land uses and associated contaminants | Pollution history details are provided in *Section 6 & 8* of this SCR and Baseline Report. |
| Evidence of historic contamination, for example, historical site investigation, assessment, remediation and verification reports (where available) | Any details regarding historical contamination at the site are provided in *Section 6 & 8* of this SCR and Baseline Report. |
| Baseline soil and groundwater reference data | Details regarding baseline soil and groundwater reference data at the site are provided in *Sections 6 & 9* of this SCR and Baseline Report. |
| **Supporting information** | Envirocheck Report included in Appendix A<br>Ground investigation information obtained in 2018, included in Appendix B |

| 3.0 Permitted activities | |
|---|---|
| Permitted activities | Details regarding permitted activities on the proposed site are provided in *Section 1* of this SCR. |
| Non-permitted activities undertaken | N/A |
| Document references for:<br>• plan showing activity layout; and<br>• environmental risk assessment. | <br>Sims Group UK Limited Operating Techniques Barnsley December 2019<br>Sims Group UK Limited Barnsley Environment, Fugitive Emissions & Accidents Risk Assessment and Management Plan, December 2019 |

# 3 STAGE 1 – IDENTIFY WHICH HAZARDOUS SUBSTANCES ARE USED, PRODUCED OR RELEASED AT THE INSTALLATION AND PRODUCE A LIST OF THESE SUBSTANCES

3.1.1 The IED relates to contamination risk associated with “hazardous substances” used, produced and/or released by the facility. Hazardous substances are defined as substances or mixtures defined in Article 3 of Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on Classification, Labelling and Packaging of substances and mixtures (the “CLP Regulations”). The determination of whether a substance is a hazardous substance is largely determined using the substance CAS Number and European Chemicals Agency (ECHA) database (Ref. 2).

3.1.2 Hazardous substances have been identified in the following materials on site:

- Fuel;
- Hydraulic oil;
- Greases and lubricants; and
- Gas cylinders.

3.1.3 The wastes that are stored and recycled at the site are not hazardous.

3.1.4 Table 3-1 below summarises the waste codes that are currently accepted at the site.

**Table 3-1 Waste Codes Accepted**

| Waste Type | Material | EWC code | CAS Number (where applicable) |
|---|---|---|---|
| Wastes from shaping and physical and mechanical surface treatment of metals and plastics | Ferrous metal filings and turnings<br>Non-ferrous metal filings and turnings | 12 01 01<br>12 01 03 | |
| Packing (including separately collected municipal packaging waste) | Metallic packaging | 15 01 04 | |
| End of life vehicles from different means of transport(including off-road machinery) and wastes from dismantling of end-of-life vehicles and vehicle maintenance (except 13, 14, 16 06 and 16 08) | End-of-life vehicles, containing neither liquids nor other hazardous components<br>Ferrous metal<br>Non-ferrous metal | 16 01 06<br>16 01 17<br>16 01 18 | |
| Construction and demolition wastes (including excavated soil from contaminated sites) | Copper<br>Bronze<br>Brass<br>Aluminium<br>Lead<br>Zinc<br>Iron and steel<br>Tin<br>Mixed metals<br>Cables other than those mentioned in 17 04 10 | 17 04 01<br>17 04 02<br>17 04 03<br>17 04 04<br>17 04 05<br>17 04 06<br>17 04 07<br>17 04 11 | 7440-50-8<br>158113-12-3<br>63338-02-3<br>7429-90-5<br>7439-92-1<br>7440-66-6<br>7439-89-6<br>7440-31-5 |

| Waste Type | Material | EWC code | CAS Number (where applicable) |
|---|---|---|---|
| Wastes from waste management facilities, off-site waste water treatment plants and the preparation of water intended for human consumption and water for industrial use | Ferrous metal<br>Non-ferrous metal | 19 12 02<br>19 12 03 | |
| Municipal wastes (household waste and similar commercial, industrial and institutional wastes) including separately collected fractions | Metals | 20 01 40 | |

3.1.5 A 10,000 litre diesel (red diesel / gas oil) tank is present on site for the refuelling of mobile plant. The diesel is stored within an integrally bunded fuel tank on concrete hardstanding.

3.1.6 Ad blue, a diesel additive, is stored within a 1,000 litre IBC unit on concrete hardstanding. The IBC is stored on a bund / drip tray with a capacity of 110%. Ad blue is not a hazardous substance, but is noted to contain urea.

3.1.7 Hydraulic oil is stored in 2 no. 1,000 litre IBC units on concrete hardstanding. The IBCs are stored in a bund / drip tray area that has a minimum, capacity of 110% of the stored volume.

3.1.8 Grease tubes for plant maintenance are stored in boxes of 12 within a cabinet in the site maintenance building.

3.1.9 Lubricants for plant maintenance are stored in 205 litre plastic containers on a bund / drip tray that has a minimum capacity of 110% of the stored volume.

3.1.10 Antifreeze for plant maintenance is stored in 2 no. 205 litre plastic containers on a bund / drip tray that has a minimum capacity of 110% of the stored volume. Antifreeze is however not considered to be a hazardous substance to the environment.

3.1.11 Gas bottles are also present on site for assisting with metal cutting and are stored within a gas cylinder cage:

- 2 no. 50 litre oxy16 cylinders;
- 2 no. 108 litre propane cylinders; and
- 2 no. 108 litre cougar (argon mix) cylinders.

3.1.12 The site has a sealed drainage system that passes through an oil interceptor prior to discharge to surface water. Maintenance procedures are in place for the interceptor to ensure that it remains in good working order to prevent any leakage having an adverse environmental impact.

# 4 STAGE 2 – IDENTIFYING THE RELEVANT HAZARDOUS SUBSTANCES

4.1.1 Stage 1 identified that the permitted wastes that are stored and recycled at the site are not deemed to be hazardous substances, however a number of hazardous substances have been identified that are stored and used on site as part of site operations. Stage 2 requires a review of the listed substances to determine which are relevant hazardous substances (RHS). Each of the substances identified within Stage 1 are reviewed in below, considering their chemical and physical properties and how they are stored and used on site, to determine the potential pollution risk of each hazardous substance.

4.1.2 RHS in relation to IED are defined as:

*those substances or mixtures defined within Article 3 of Regulations (EC) No1272/2008, which, as a result of their hazardousness, mobility, persistence and biodegradability (as well as other characteristics), are capable of contaminating soil or groundwater and are used, produced and/or released by the installation.*

## 4.2 Oil Based Hazardous Substances (Diesel, Hydraulic Oil and Lubricants)

4.2.1 Diesel, hydraulic oil and lubricants are used on site by mobile plant and operational equipment as part of the site operations. These substances are stored in reasonable quantities, particularly diesel, and are capable of contaminating soil and groundwater should they be released into the environment. These oil based substances are toxic to the water environment and although they are biodegradable in particular conditions, larger volumes of these substances are likely to be relatively persistent in the environment.

## 4.3 Greases

4.3.1 Greases are used on site to maintain plant and equipment. Grease tubes are stored in boxes of 12 in a cabinet in the maintenance building and the potential for the substance to enter soil and groundwater is extremely limited. On this basis, grease has been discounted as a RHS for the purpose of this baseline assessment of soil and groundwater.

## 4.4 Gas Bottles

4.4.1 Gas bottles are only present on site in small quantities and are stored in a gas cylinder cage. The external sides of the cages are meshed to allow for ventilation. Bottles are not stacked, and the cage capacity is not exceeded. Given the small quantities likely to be present and management and storage techniques in place, gas bottles have been discounted as a RHS for the purpose of this baseline assessment of soil and groundwater.

## 4.5 Site Discharge

4.5.1 Discharge into the local surface water network has the potential to contaminate the surrounding surface water courses.

4.5.2 This is a planned emission and the site has a sealed drainage system that comprises an interceptor prior to discharge into surface water. There is a sample point at the discharge location to monitor the quality of the water being discharged.

4.5.3 There are site maintenance and inspection procedures in place for the oil interceptor to prevent the discharge from having an adverse environmental impact. On this basis, site discharge has been discounted as RHS for the purpose of this baseline of soil and groundwater.

# 5 STAGE 3 – ASSESSMENT OF THE SITE SPECIFIC POLLUTION POSSIBILITY

5.1.1 Each of the relevant hazardous substances identified in Stage 2 are to be considered in Stage 3 in the context of the site itself to determine whether circumstances exist which may result in the release of the substance in sufficient quantities to represent a pollution risk, either as a result of a singular emission or as a result of accumulation from multiple emissions.

5.1.2 Circumstances under which emissions may occur include:

- Planned emissions;
- Accidents and / or incidents; and
- Routine operations.

5.1.3 The only planned emission at the site is the site discharge to the surface water network. In Stage 2 this was discounted as a RHS.

5.1.4 The site has an up to date Environmental Management System (EMS) which outlines Sims Group UK Limited procedures in place to minimise the frequency of accidents or incidents occurring and outlines procedures in place to minimise the risk in the event of an accident or incident occurring. These are summarised below:

- All aspects of the site operations have been assessed for significance and an appropriate environmental risk assessment has been carried out;
- Regular inspections of impermeable surfaces, tanks, bunds and pipe work is carried out and repairs and maintenance undertaken as necessary;
- All plant and equipment is inspected and maintained in accordance with legal requirements and the manufactures recommendations and maintenance records are kept by site management;
- Any complaints received about site activities are recorded and investigated in accordance with complaints log and investigation procedure;
- A mechanism is in place to fully investigate any environmental incidents and non-conformances in both normal and abnormal conditions and to record any remedial actions that might be taken and how to prevent re-occurrence. All employees are trained in how to report such occurrences including near misses and hazards from both an environment and health and safety perspective via the internal Hazrep system;
- An environment audit procedure is implemented to provide guidance, advice and promote awareness to the site manager at all levels to enable site management to ensure that environmental regulatory and company policy standards are compiled with. The audits also act as a means of training relevant personnel. The key objective of the audit is to promote a system of review and continual improvement;
- A site specific emergency contingency and accident management plan is in place; and
- All staff receive environmental training relating to environmental best practice on induction and are required to follow safe working procedure. Key personnel are also required to complete Environment Agency technical competence assessments and continuing competence assessments as applicable.

5.1.5 Emissions as a result of the RHS used during routine operations are outlined in the sections below.

## 5.2 Oil Based Substances (Diesel, Hydraulic Oil and Lubricants)

5.2.1 The site relies on mobile plant to transport materials around the facility and requires diesel and hydraulic oil to operate. The singular 10,000 litre diesel tank present on site has integral bund. The hydraulic oil is stored in 2 no. 1000 litre IBC units that are stored on a bund / drip trip that has a minimum capacity of 110% of the stored volume.

5.2.2 Lubricants are also used on site to maintain plant and equipment used on site. The lubricants are stored in plastic containers situated on a bund / drip tray that has a minimum capacity of 110% of the stored volume.

5.2.3 The stored oil based substances are subject to daily visual checks for integrity and leaks. All oil based substances are stored on an impermeable surface with sealed drainage to form a barrier and cut off the pathway to soil and groundwater. The surface is regularly inspected as part of the EMS and will be repaired where necessary to maintain the impermeable nature of the site surface.

## 5.3 Site Specific Pollution Possibility

5.3.1 Given the management procedures in place at the site and the sealed drainage system, the RHS as a result of routine operations and RHS release as a result of accident and/or incident are not considered to represent a cause for concern for the facility in terms of contaminating land or groundwater and have thus been discounted.

# 6 STAGE 4 – PROVIDE A SITE HISTORY

6.1.1 The purpose of Stage 4 is to determine which of the RHS identified in Stage 3 have the potential to be present on site in the soil and groundwater already as a result of activities undertaken at the site to date and to determine whether they are coincident with potential future emission points.

6.1.2 This section should consider both the history of the site prior to development of the current facility and the operational history of the current facility.

## 6.2 General Site History

6.2.1 Between 1893 and 1917, historical records indicate that the site comprised undeveloped fields, with Cudworth rail depot and railway line running north to south to the east and a railway line running to south to the immediate west.

6.2.2 By 1962 the Carlton North Railway sidings covered the western section of the site, situated upon an apparent raised embankment. At this time, the eastern section of the site is recorded to be marshland with issues and a small pond.

6.2.3 By 1981 the sidings had been removed, with the raised land shown to be vacant. The eastern part of the site is recorded to have been divided into a number of plots, identified as scrapyards. The historical records indicate that by 1991, the embankment had largely been removed towards the western boundary and by 1999, the western part of the site is recorded to have been in use as a scrapyard.

6.2.4 Based upon the recorded site history, it appears that a number of smaller scrapyard operators at the site, prior to amalgamation into a single larger operation.

## 6.3 Previous Ground Investigation

6.3.1 A ground investigation was undertaken at the site by RPS in February 2018. The scope of the ground investigation comprised:

- The advancement of ten windowless sample boreholes to depths of up to 5.0 mbgl (metres below ground level);
- One round of ground gas and groundwater monitoring at a total of seven locations; and
- Chemical analysis of soil and groundwater samples for a range of inorganic and organic contaminants, selected based upon the known history of the site.

6.3.2 The following contaminants are indicated to be present with respect to a continued use of the site for industrial purposes, including continued use of the site with respect to current site operations:

- A single elevated concentration of lead within the Made Ground;
- Asbestos fibres (chrysotile and amosite) within the Made Ground at a total of four locations;
- Localised exceedances of the relevant screening criteria for a range of heavy metals, Polycyclic Aromatic Hydrocarbons (PAH), toluene and TPH (Total Petroleum Hydrocarbons) within the shallow groundwater;
- Localised occurrences of ground gases, namely methane, carbon dioxide, carbon monoxide and hydrogen sulphide.

6.3.3 Based upon the findings of the ground investigation the following conclusions have been drawn:

- Potential risks to human health from the presence of lead and asbestos within the soil are deemed to be low to moderate, however risks could be mitigated by the retention of hardstanding across the site;

- Shallow groundwater has been adversely impacted and that there is potential for groundwater within the underlying bedrock and neighbouring minor surface water channels to be impacted. A low to moderate risk to controlled waters is considered to be present;
- The groundwater contamination is however considered likely to be a regional issue rather than a site specific issue given the industrial heritage of the wider area; and
- The site has a CS2 classification from the presence of ground gas based upon the presence of methane and carbon monoxide, likely to be emanating from the deeper coal seams. A low to moderate risk to human health from the presence of ground gas is considered to be present.

## 6.4 Potential Historic Contaminants

6.4.1 Based upon a review of available information, it is considered that there the following contaminant sources are be present and could potentially have led to the presence of the identified contaminants in soil and / or groundwater as detailed in Section 6.3:

- Historical presence of railway sidings and an embankment in the western part of the site; and
- Historical use of the site as scrapyards prior to the current permitted waste operation;

6.4.2 The presence of Made Ground and underlying deep coal measures are considered as potential sources of ground gas that are present at the site.

## 6.5 Operational History

6.5.1 Envirocheck information included within Appendix A indicates there have been two pollution incidents at the site, namely one category 2 (significant incident) comprising storm overflow of sewage to Cudworth Dike in August 1997, and one category 3 (minor incident) comprising spillage of detergents/surfactants in January 1995. Both of these pollution incidents were however before permit issue in February 2004. The Envirocheck information also details:

- 38 pollution incidents within 250 m of the site;
- 2 prosecutions in relation to burning of waste to the north-east and south-east of the site in 2012 and 2006 respectively; and
- 6 substantiated pollution incidents within 250 m of the site.

6.5.2 A number of CARs have been issued by the Environment Agency in relation to site operations under permit, however no non-compliances or observations relating to emissions to soil or groundwater have been recorded within the CARs issued since the permit was transferred to Sims in February 2018.

6.5.3 There have been no reportable pollution incidents during the lifetime of the permit.

6.5.4 The operation of the facility under the Environmental Permit is in accordance with the EMS. The management, monitoring and reporting requirements of the Environmental Permit are complied with, which will ensure that any environmental protection elements are implemented. Appropriate measures for the storage and use of hazardous substances have been implemented and the site comprises impermeable concrete hardstanding across the site with sealed drainage system. Operational techniques are also in place to manage any localised pollution incidents.

6.5.5 Details in relation to the EMS and accidents and/or incidents are outlined within section 5.1.4 of this report. Further details on the EMS are presented within the site's Environment, Fugitive Emissions & Accidents Risk Assessment and Management Plan. Consideration of the

environmental risk associated with the installation including the proposed management measures has been carried out and is included in section 3 of the Operating Techniques document.

# 7 STAGE 5 – IDENTIFY THE SITE'S ENVIRONMENTAL SETTING

## 7.1 Site Setting and Sources of Desk Study Information

7.1.1 The following sections detail the environmental setting of the site. The sources of desk study information utilised in order to describe the condition of the installation, and in particular, to determine the potential for substances to be present in, on or under the land associated with present and past uses of the site and its surrounding areas are listed below:

- An Envirocheck report, including information regarding pollution incidents, flooding, water abstractions, discharge consents, waste disposal facilities, land-based designation, COMAH, radon and mining (Appendix A);
- Ground investigation information derived by RPS in February 2018 (Appendix B); and
- Information held by the British Geological Survey relating to geology and hydrogeology.

7.1.2 There is no baseline data available from the original permit application in 2004 as it was not a requirement to produce a site condition report for waste activities at this time.

## 7.2 Topography

7.2.1 The topography of the site is fairly level, lying at an elevation of approximately 44.1 m above Ordnance Datum (mAOD) in the east and approximately 44.8 mAOD in the west. The entire site surface comprises concrete hardstanding noted to be in good condition.

## 7.3 Geology and Hydrogeology

7.3.1 Published geological information indicates that the site is underlain by superficial deposits comprising Glacial Till over the majority of the site, with Alluvium being present in the far eastern area of the site. The Alluvium is indicated to typically comprise soft to firm, silty clay that may contain layers of silt, sand, peat, and basal gravel.

7.3.2 The underlying bedrock comprises interbedded grey mudstones, siltstones, sandstones and frequently coal seams of the Pennine Middle Coal Measures Formation.

7.3.3 The Environment Agency classifies the superficial deposits as a Secondary Undifferentiated aquifer (Till Deposits) and a Secondary A aquifer (Alluvium). The bedrock is classified as a Secondary A aquifer. These strata typically comprise permeable layers capable of supporting water supplies at a local rather than strategic scale and in some cases forming an important source of base flow to rivers.

7.3.4 The Assessment is not in or within 500 m of a groundwater Source Protection Zone.

7.3.5 The ground investigation undertaken by RPS encountered Made Ground across the site ranging in proven thickness between 1.0 m and 2.8 m. The Made Ground was noted to be variable in composition but typically comprised a greyish brown clayey sandy gravel or sandy gravelly clay with variable proportions of brick, concrete, ash, glass, metal, wood, plastic, slate, coal and clinker.

7.3.6 Within the eastern and southern parts of the site, Alluvium was encountered underlying the Made Ground to a maximum proven depth of 5.0 mbgl. The Alluvium was noted to be variable in composition but typically comprised a dark grey sandy gravelly peaty clay. Glacial Till was encountered underlying the Alluvium in the southern part of the site and directly underlying the Made Ground in the north-western part of the site. The Glacial Till was proven to a maximum depth of 5.0 mbgl and typically comprised an interbedded orangish brown mottled grey clayey sandy gravel, sandy gravelly clay and silty sandy clay.

7.3.7 Weathered mudstone bedrock of the Pennine Middle Coal Measures was identified at a total of four exploratory hole locations across the site, comprising a dark grey sandy gravelly clay.

7.3.8 Groundwater monitoring information derived from the ground investigation indicate that perched groundwater was present within the Made Ground, Alluvium and Glacial Till, however the presence of perched groundwater appeared to be limited in extent with no clarity as to whether there was any hydraulic continuity across the site.

## 7.4 Hydrology

7.4.1 The nearest surface water feature is reported to be located 24 m to the south-east of the site. This feature appears to be a minor drainage channel called Boulder Bridge Dike running to the south that joins Shaw Dike further to the south and potentially joins Cudworth Dike, a stream that runs north to south, to the south-east of the site. Cudworth Dike is indicated to be designated as River Quality E.

7.4.2 Eight OS network water lines are within 250 m of the site, the nearest of which is 3 m to the east of the site boundary.

7.4.3 Surface water from the site drains passes into a sealed drainage system that discharges into the surface water network via an interceptor.

7.4.4 The site is reported within the Envirocheck report to lie in an area where there is potential for groundwater flooding to occur at the surface.

## 7.5 Man-made Pathways

7.5.1 The site is covered in impermeable concrete hardstanding thereby preventing hazardous substances from site operations entering the soil and groundwater beneath the site. As stated previously, all surface water enters a sealed drainage system and passes through an interceptor prior to discharge to surface water. The drainage system and interceptor are maintained and the discharge location is monitored.

## 7.6 Environmental Consents, Licences, Authorisations, Permits and Designations for the Site and Surrounding Areas

### Water Discharges and Abstraction Licences

7.6.1 Surface water drainage from the site passes through a sealed drainage system that includes interceptors.

7.6.2 No discharge consents are located on site, with the only discharge consents within 250 m from the site being surrendered / transferred permits operated by Yorkshire Water Services Limited comprising sewage discharges to stream/river of which has now been revoked, located 232 m to the south.

7.6.3 The nearest water abstraction is reported to be 250 m to the north of site. This water abstraction is operated by Burnett and Hallamshire Fuel Limited, comprising surface water abstraction for general industrial use. No potable / drinking water abstraction licences are present within 2 km of the site.

### Landfill Sites

7.6.4 There are two historical landfill sites indicated within 250 m of the site, the nearest being at 117 m to the south-east. This licence is held by Mr A. Barraclough, named as disused railway sidings with last input of inert, industrial, commercial and household waste in 1992. Another facility is listed

as a local authority recorded landfill 117 m to the south-east, likely to be the same site, however with the status recorded as unknown.

## Waste / Permitted Sites

7.6.5 WFS Metals Limited (on site) was indicated to be a licenced waste management facility. This facility was reported to be a mixed metal recycling site, although the licence was indicated to have expired. It is also listed as a registered waste treatment and disposal site. The sites to the immediate east (Trevor Wigley and Son Limited) and north-east (Welbourn Car Dismantlers) are also indicated to be licensed waste management facilities. Twenty two other licenced facilities are listed within 250 m, including several within 50 m, including PVS Barnsley, situated to the immediate south of the site, which is a permitted vehicle dismantling operation.

7.6.6 There is one Integrated Pollution Prevention and Control (IPPC) site within 250 m of the site, this being C.K. Beckett Oil Processing site, located 112 m to the north. The IPPC allows the disposal, recovery and temporary storage of hazardous waste. There are also four Local Authority Pollution Prevention and Controls (LAPPC) within 250 m of the site, the nearest being Ever Ready Mix Limited, concrete suppliers, to the immediate north of the site. The others are 94 m to the north-east on a closed concrete site, and 106m south, for C.K. Beckett and (2 controls).

7.6.7 Various other trade entries and waste management sites are recorded in the general surrounding area.

## Statutory Designated / Sensitive Sites within 1 km

7.6.8 The following sensitive land uses have been identified within 1 km of the site:

- An area of adopted Green Belt lies 16 m to the west of the site;
- Carlton Marsh Local Nature Reserve lies 120 m to the south-east of the site; and
- The site is situated within a nitrate vulnerable zone.

## Mining

7.6.9 The key conclusions outlined within a Coal Authority non-residential mining report included in Appendix A are:

- The site is within an area that could be affected by underground mining in 7 no. seams of coal at 150 m to 480 m depth, which were last worked in 1966. The Coal Authority states that any movement in the ground due to coal mining activity should have stopped;
- The Coal Authority has not identified the potential for shallow reserves of coal at the surface that may have been subject to unrecorded workings;
- There are no recorded mine entries within 20 m of the site; and
- The last damage notice or claim The Coal Authority received within 50 m of the property was on 31st October 1994.

7.6.10 Based on the above, the risk from coal mining at the site is considered to be low.

## COMAH

7.6.11 The nearest COMAH site is reported to be located 929 m to the south-west of the site. This site as referred to as Manor Bakeries Ltd and is classified as an active Lower Tier COMAH site.

7.6.12 There are no other COMAH sites reported within 1 km of the site.

## Radon

7.6.13 Part of the site is in a radon area defined as having a maximum radon potential of 1 – 3% of properties to be above the action level.

# 8 STAGE 6 – SITE CHARACTERISATION

8.1.1 The Sims Barnsley site is located on a brownfield site situated within area where a number of waste storage / processing sites operate. Undeveloped agricultural land lies at a short distance to the east and west of the site. The site has been in industrial use since the early 1960s and the contamination identified by the RPS ground investigation undertaken at the site is considered to be typical of a brownfield site with such an industrial heritage and is not considered to be associated with current permitted activities.

8.1.2 The geology of the site is Made Ground (impermeable concrete underlain by reworked natural materials with variable proportions of man-made materials) underlain by Alluvium in the eastern and southern parts of the site. Glacial Till has been proven to underlie the Made Ground in the north-western part of the site and underlying the Alluvium in the southern part of the site. Bedrock of the Pennine Middle Coal Measures Formation has been proven to underlie the Glacial Till.

8.1.3 Shallow perched groundwater has been encountered within the shallow Made Ground / Alluvium / Glacial Till soils, but is not considered to form a continuous shallow groundwater body at the site. The Alluvium is classified as a Secondary A aquifer by the Environment Agency and the Glacial Till is classified as a Secondary Undifferentiated aquifer. A deeper groundwater body is anticipated to the present within the underlying Pennine Middle Coal Measures, which is classified as a Secondary A aquifer.

8.1.4 The site does not lie in a groundwater Source Protection Zone.

8.1.5 The nearest surface water feature lies at a short distance to the south-east of the site, a minor drainage channel that joins Shaw Dike further to the south and potentially joins Cudworth Dike to the south-east of the site. Cudworth Dike is indicated to be designated as River Quality E.

8.1.6 Eight OS network water lines are within 250 m of the site, the nearest of which is 3 m to the east of the site boundary.

8.1.7 There are no records of pollution incidents after the site obtained an environmental permit in February 2004. Prior to the site obtaining an environmental permit, two pollution incidents were recorded at the site in relation to storm overflow of sewage to Cudworth Dike in August 1997, and the spillage of detergents/surfactants in January 1995

8.1.8 A number of CARs have been issued by the Environment Agency in relation to site operations under permit, however no non-compliances or observations relating to emissions to soil or groundwater have been recorded within the CARs issued since the permit was transferred to Sims in February 2018.

8.1.9 The operation of the facility under the Environmental Permit is in accordance with the EMS. All storage and recycling of both wastes takes place on impermeable pavement with sealed drainage system and operational techniques are in place to manage any localised pollution incidents. The surface is regularly inspected as part of the EMS and will be repaired where necessary to maintain the impermeability. The site also has spillage collection facilities, degreasers and cleansers where appropriate.

8.1.1 Details in relation to the EMS and accidents and/or incidents are outlined within section 5.1.4 of this report. Further details on the EMS are presented within the site's Environment, Fugitive Emissions & Accidents Risk Assessment and Management Plan. Consideration of the environmental risk associated with the installation including the proposed management measures has been carried out and is included in section 3 of the Operating Techniques document.

8.1.2 Given management procedures in place at the site and the sealed drainage system the pathways for contaminants are blocked. The quantities of RHS as a result of routine operations and RHS release as a result of accident and/or incident have been discounted as not a cause for concern for the facility in terms of contaminating land or groundwater.

# 9 STAGE 7 – SITE INVESTIGATION

9.1.1 A ground investigation was undertaken by RPS in 2018 and identified:

- A single elevated concentration of lead within the Made Ground;
- Asbestos fibres (chrysotile and amosite) within the Made Ground at a total of four locations;
- Localised exceedances of the relevant screening criteria for a range of heavy metals, Polycyclic Aromatic Hydrocarbons (PAH), toluene and TPH (Total Petroleum Hydrocarbons) within the shallow groundwater; and
- Localised occurrences of ground gases, namely methane, carbon dioxide, carbon monoxide and hydrogen sulphide.

9.1.2 Based upon the findings of the ground investigation risks to human health and controlled waters are considered to be low to moderate, however risks to human health could be mitigated by the retention of hardstanding across the site. The presence of competent hardstanding and a sealed drainage system would also likely manage risks to controlled waters by reducing the infiltration of precipitation into the shallow soils.

9.1.3 The presence of contaminants within the soil and groundwater are considered to be a regional issue rather than a site specific issue given the industrial heritage of the wider area. The presence of contaminants is also not considered to be associated with current site permitted activities.

9.1.4 There are no records of any pollution incidents since the environmental permit was issued in 2004 and no CARs have been issued in relation to emissions to land or groundwater.

9.1.5 There are no obvious on site sources of contamination due to the quantities of RHS present in relation to site operations and the operational procedures in place for material acceptance, storage and inspections that minimise the risk of potential contamination. The site also has spillage collection facilities, spill kits, degreasers and cleansers where appropriate.

9.1.6 The impermeable surfaces across the site and sealed drainage is appropriately maintained to provide further protection to the environment in the event a localised pollution incident should occur.

9.1.7 Since a permit for the site was first issued in February 2004 there have been no pollution incidents recorded. CARs have been issued in relation to the site under permit, however no CARs have been issued in relation to emissions to soil or groundwater since the permit was transferred to Sims in February 2018.

9.1.8 It is recognised that the site has a long industrial legacy. Due to the quantities of hazardous substances present at the site, the impermeable surface and sealed drainage present as well as the operational procedures in place for material acceptance, storage and inspections, the risk of potential contamination is minimised. Therefore, further intrusive ground investigation at the site is not considered necessary to support this baseline report.

# 10 STAGE 8 – PRODUCE A BASELINE REPORT

10.1.1 On the basis of the details provided in Sections 1 – 7, in particular that a ground investigation was undertaken at the site in 2018 and there have been no reported pollution incidents since, we have concluded that no further ground investigation is necessary to baseline the site.

# 11 OPERATION SITE CONDITION REPORT

## 11.1 Operational Phase

11.1.1 This SCR, prepared in accordance with the EA "H5 Site Condition Report" guidance (Ref. 3), contains information on the condition of the site during the operational phase of the facility.

## 11.2 Site Condition Report Summary

| 4.0 Changes to the activity | |
|---|---|
| Have there been any changes to the activity boundary?<br>If yes, provide a plan showing the changes to the activity boundary. | If yes, provide a plan showing the changes to the activity boundary. |
| Have there been any changes to the permitted activities?<br>If yes, provide a description of the changes to the permitted activities | If yes, provide a description of the changes to the permitted activities |
| Have any 'dangerous substances' not identified in the Application Site Condition Report been used or produced as a result of the permitted activities?<br>If yes, list them | If yes, list them |
| **Checklist of supporting information** | 1. Plan showing any changes to the boundary (where relevant)<br>2. Description of the changes to the permitted activities (where relevant)<br>3. List of 'dangerous substances' used/produced by the permitted activities that were not identified in the Application Site Condition Report (where relevant) |

| 5.0 Measures taken to protect land | |
|---|---|
| Use records that you collected during the life of the permit to summarise whether pollution prevention measures worked. If you can't, you need to collect land and/or groundwater data to assess whether the land has deteriorated. | |
| **Checklist of supporting information** | 4. Inspection records and summary of findings of inspections for all pollution prevention measures<br>5. Records of maintenance, repair and replacement of pollution prevention measures |

| 6.0 Pollution incidents that may have had an impact on land, and their remediation | |
|---|---|
| Summarise any pollution incidents that may have damaged the land. Describe how you investigated and remedied each one. If you can't, you need to collect land and /or groundwater reference data to assess whether the land has deteriorated while you've been there. | |
| **Checklist of supporting information** | 6. Records of pollution incidents that may have impacted on land<br>7. Records of their investigation and remediation |

| 7.0 Soil gas and water quality monitoring (where undertaken) | |
|---|---|
| Provide details of any soil gas and/or water monitoring you did. Include a summary of the findings. Say whether it shows that the land deteriorated as a result of the permitted activities. If it did, outline how you investigated and remedied this. | |
| **Checklist of supporting information** | 8. Description of soil gas and/or water monitoring undertaken<br>9. Monitoring results (including graphs) |

# 12 SURRENDER SITE CONDITION REPORT

12.1.1 At permit surrender, the following sections of the SCR template (EPR H5) will be completed and submitted to the EA as part of the permit surrender application. Information that has been gathered over the lifetime of the Permit will be used to identify whether the land is in a satisfactory condition. If necessary, surrender reference data will be collected and remediation will be undertaken if required.

| 8.0 Decommissioning and removal of pollution risk | |
|---|---|
| Describe how the site was decommissioned. Demonstrate that all sources of pollution risk have been removed. Describe whether the decommissioning had any impact on the land. Outline how you investigated and remedied this. | |
| **Checklist of supporting information** | 10. Site closure plan<br>11. List of potential sources of pollution risk<br>12. Investigation and remediation reports (where relevant) |

| 9.0 Reference data and remediation (where relevant) | |
|---|---|
| Say whether you had to collect land and/or groundwater data. Or say that you didn't need to because the information from sections 3, 4, 5 and 6 of the Surrender Site Condition Report shows that the land has not deteriorated.<br>If you did collect land and/or groundwater reference data, summarise what this entailed, and what your data found. Say whether the data shows that the condition of the land has deteriorated, or whether the land at the site is in a "satisfactory state". If it isn't, summarise what you did to remedy this. Confirm that the land is now in a "satisfactory state" at surrender. | |
| **Checklist of supporting information** | 13. Land and/or groundwater data collected at application (if collected)<br>14. Land and/or groundwater data collected at surrender (where needed)<br>15. Assessment of satisfactory state<br>16. Remediation and verification reports (where undertaken) |

| 10.0 Statement of site condition |
|---|
| Using the information from sections 3 to 7, give a statement about the condition of the land at the site. This should confirm that:<br>17. the permitted activities have stopped<br>18. decommissioning is complete, and the pollution risk has been removed<br>19. the land is in a satisfactory condition |

# 13 CONCLUSIONS

13.1.1 RPS has undertaken an assessment of the site condition at Sims Group UK Limited metal recycling facility at Boulder Bridge Lane, Carlton, Barnsley in support of an application to vary the site's current environmental permit. The primary purpose of this report is to provide information to the Environment Agency in relation to the operations and to provide them with a framework against which potential future contamination issues will be assessed.

13.1.2 The published geology of the site indicates superficial Glacial Till to be present over much of the site, with Alluvium being present in the far eastern area. The superficial deposits are recorded to be underlain by bedrock of the Pennine Middle Coal Measures. A ground investigation undertaken by RPS in 2018 identified Made Ground to be present across the site, underlain by Alluvium in the eastern and southern area. Glacial Till was encountered underlying the Made Ground in the north-western part of the site and underlying the Alluvium in the southern part of the site. Bedrock of the Pennine Middle Coal Measures was proven to underlie the superficial deposits at several locations across the site.

13.1.3 The waste permitted to be stored and recycled at the site are not hazardous, however the following RHS have been identified in relation to general site operations:

- Diesel and hydraulic oil for site plant; and
- Lubricants for the maintenance of site plant and equipment.

13.1.4 The diesel is situated within a tank that has an integral bund and the hydraulic oil and lubricants are situated on bunds / drip trays. All the identified RHS are stored on concrete hardstanding that is maintained in a good state of repair and the site also operates appropriate procedures to inspect the stored RHS for leaks. On this basis, the presence of these RHS are not considered to be a concern for the facility and the risk of potential future contamination is minimised.

13.1.5 The site has a long history of being used as a scrapyard and is situated in an industrial area. There are no records of any pollution incidents on site since a permit was first issued in 2004 and no CARs have been issued in relation to emissions to soil or groundwater since the permit was transferred to Sims in February 2018.

13.1.6 A ground investigation undertaken by RPS has identified localised areas of lead and asbestos soil contamination and localised areas of heavy metal, PAH and TPH contamination within the shallow groundwater. The presence of the contamination identified is considered likely to reflect the industrial heritage of the site and the general site area, rather the contamination being a consequence of the sites current permitted activities.

13.1.7 Having reviewed all available data, it is concluded that based on the nature of the operations, which present no obvious sources of contamination, operational procedures in place (including EMS and compliance procedures implemented) and the nature of the land at permit issue (brownfield), the current site operations are not deteriorating the condition of the land and no further intrusive investigation is considered necessary to baseline site condition.

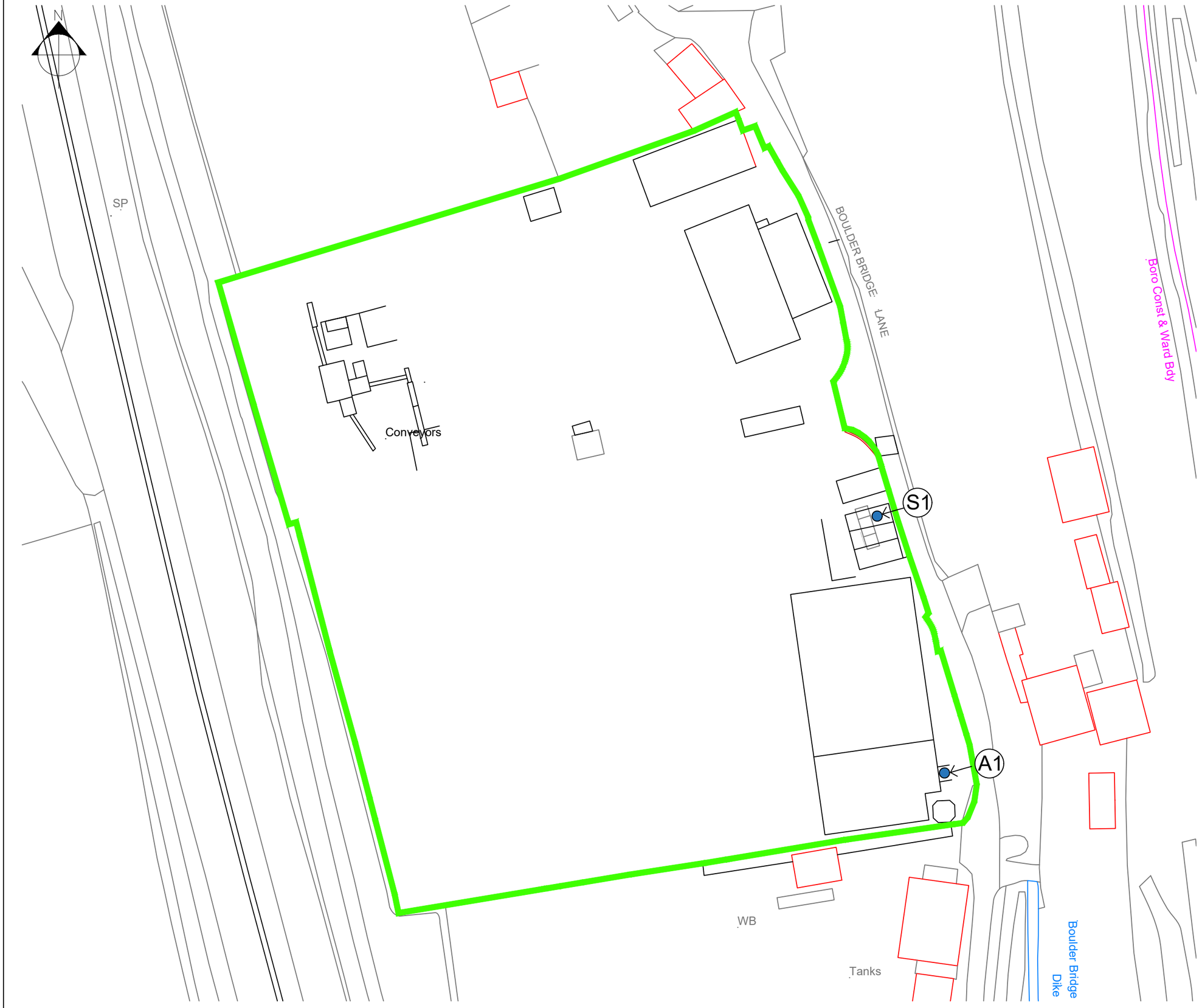
# REFERENCES

1 - https://eur-lex.europa.eu/legal-content/EN/TXT/HTML/?uri=CELEX:32010L0075&from=EN

2 - https://echa.europa.eu/

3 – Environment Agency, H5 Guidance for Applicants, Environmental Permitting Regulations, Site Condition Report – Guidance and Templates, May 2013.

# DRAWINGS

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## Legend

Permit Boundary

**Emission Points**

- S1 - Emission Point to Water
- A1 - Emission Point to Air

| Rev | Description | By | CB | Date |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |

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**T:** 01454 853 000 **E:** rpssw@rpsgroup.com

Client: SIMS Group UK Ltd

Project: Barnsley

Title: Installation Plan

| Status | Drawn By | PM/Checked by |
|---|---|---|
| DRAFT | RW | CH |

| Job Ref | Scale @ A3 | Date Created |
|---|---|---|
| JER8362 | 1:1000 | JAN 2020 |

RPS Drawing / Figure Number: JER8362-PER-002

Rev: -

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# APPENDICES

# Appendix A

# Envirocheck Report

The Coal Authority

Resolving the impacts of mining

# CON29M Non-Residential Mining Report

WFS METALS
BOULDER BRIDGE LANE CARLTON
BARNSLEY
SOUTH YORKSHIRE

| | |
|---|---|
| Date of enquiry: | 22 September 2017 |
| Date enquiry received: | 22 September 2017 |
| Issue date: | 22 September 2017 |
| Our reference: | 51001619926001 |
| Your reference: | 140347875_2\| |

# CON29M Non-Residential Mining Report

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.

**Client name**

LANDMARK INFORMATION GROUP LIMITED

**Enquiry address**

WFS METALS, BOULDER BRIDGE LANE, CARLTON, BARNSLEY, SOUTH YORKSHIRE

Approximate position of property

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# Summary

| Has the search report highlighted evidence or potential of | | |
|---|---|---|
| 1 | Past underground coal mining | Yes |
| 2 | Present underground coal mining | No |
| 3 | Future underground coal mining | Yes |
| 4 | Mine entries | No |
| 5 | Coal mining geology | No |
| 6 | Past opencast coal mining | No |
| 7 | Present opencast coal mining | No |
| 8 | Future opencast coal mining | No |
| 9 | Coal mining subsidence | No |
| 10 | Mine gas | No |
| 11 | Hazards related to coal mining | No |
| 12 | Withdrawal of support | No |
| 13 | Working facilities order | No |
| 14 | Payments to owners of former copyhold land | No |
| 15 | Information from the Cheshire Brine Subsidence Compensation Board | No |

**For detailed findings, please go to page 4.**

# Detailed findings

### 1. Past underground coal mining

The property is in a surface area that could be affected by underground mining in 7 seams of coal at 150m to 480m depth, and last worked in 1966.

Any movement in the ground due to coal mining activity should have stopped.

### 2. Present underground coal mining

The property is not within a surface area that could be affected by present underground mining.

### 3. Future underground coal mining

The property is not in an area where the Coal Authority has plans to grant a licence to remove coal using underground methods.

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

The property is not in an area likely to be affected from any planned future underground coal mining.

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

No notices have been given, under section 46 of the Coal Mining Subsidence Act 1991, stating that the land is at risk of subsidence.

### 4. Mine entries

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

### 5. Coal mining geology

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

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

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

### 8. Future opencast coal mining
There are no licence requests outstanding to remove coal by opencast methods within 800 metres of the boundary.

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.

### 9. 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 31 October 1994.

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

The Coal 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.

### 10. Mine gas
The Coal Authority has no record of a mine gas emission requiring action.

### 11. 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.

### 12. Withdrawal of support
The property is not in an area where a notice to withdraw support has been given.

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

### 13. Working facilities order
The property is not in an area where 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.

### 14. Payments to owners of former copyhold land

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

## 15. Information from the Cheshire Brine Subsidence Compensation Board

The property lies outside the Cheshire Brine Compensation District.

## Additional remarks

Information provided by the Coal Authority in this report is compiled in response to the Law Society's Con29M Coal Mining and Brine Subsidence Claim enquiries. The said enquiries are protected by copyright owned by the Law Society of 113 Chancery Lane, London WC2A 1PL. Please note that Brine Subsidence Claim enquiries are only relevant for England and Wales. 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 applicable at the time the report was produced.

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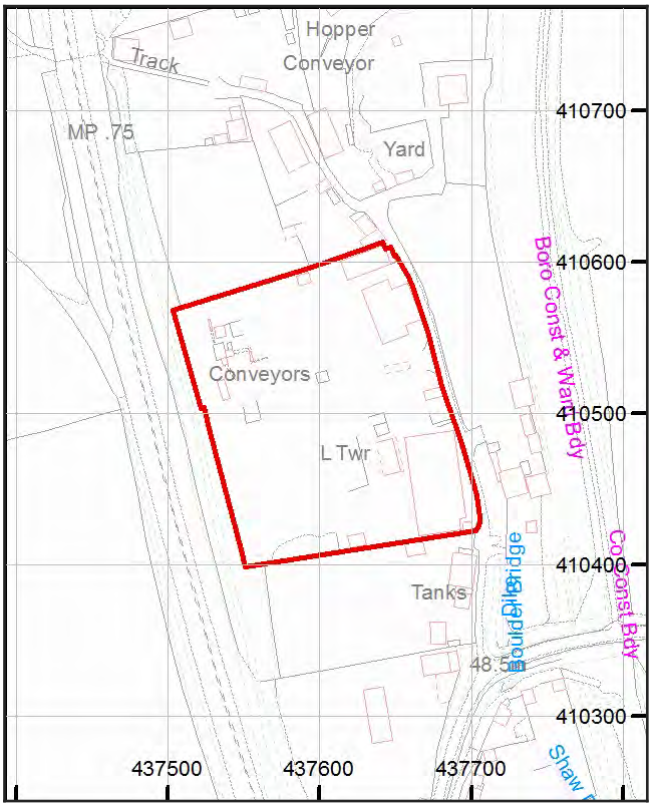
# Enquiry boundary

**Key**

Approximate position of enquiry boundary shown




Map data

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Nottinghamshire
NG18 4RG

www.groundstability.com

/company/the-coal-authority
/thecoalauthority
/coalauthority

RPS

# Groundwater Vulnerability

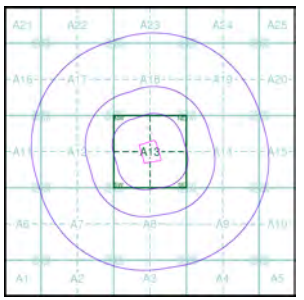
## General

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

## Agency and Hydrological

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

## Site Sensitivity Context Map - Slice A



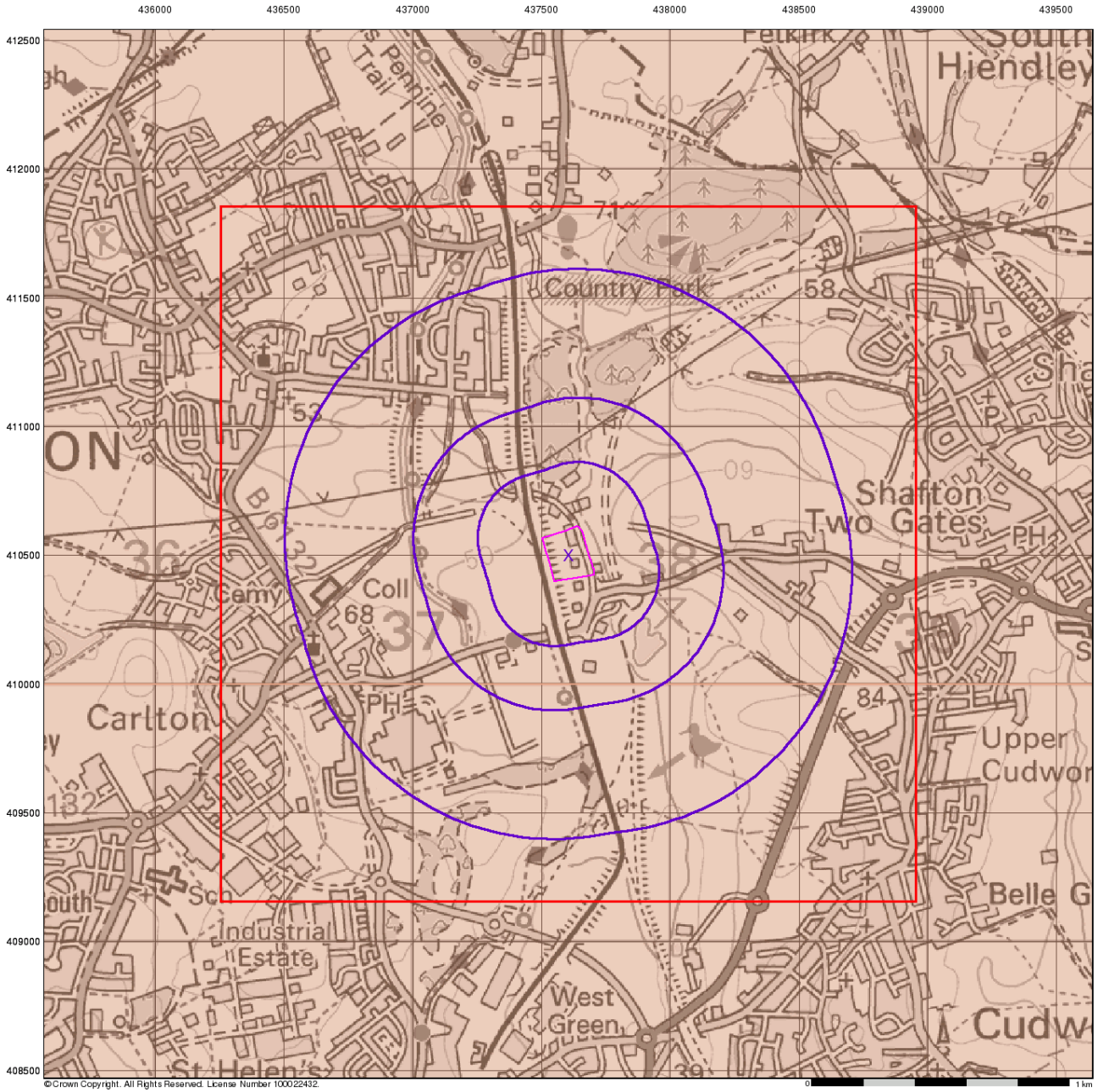

## Order Details

| | |
|---|---|
| Order Number: | 140347875_1_1 |
| Customer Ref: | JER6108 |
| National Grid Reference: | 437600, 410500 |
| Slice: | A |
| Site Area (Ha): | 2.93 |
| Search Buffer (m): | 1000 |

## Site Details

WFS Metals,, Boulder Bridge Lane, Carlton, BARNSLEY, S71 3HJ

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

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# Bedrock Aquifer Designation

## General

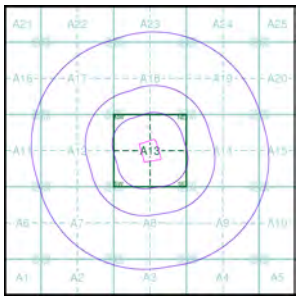
Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

## Agency and Hydrological

**Geological Classes**

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

## Site Sensitivity Context Map - Slice A




## Order Details

| | |
|---|---|
| Order Number: | 140347875_1_1 |
| Customer Ref: | JER6108 |
| National Grid Reference: | 437600, 410500 |
| Slice: | A |
| Site Area (Ha): | 2.93 |
| Search Buffer (m): | 1000 |

## Site Details

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Landmark INFORMATION GROUP
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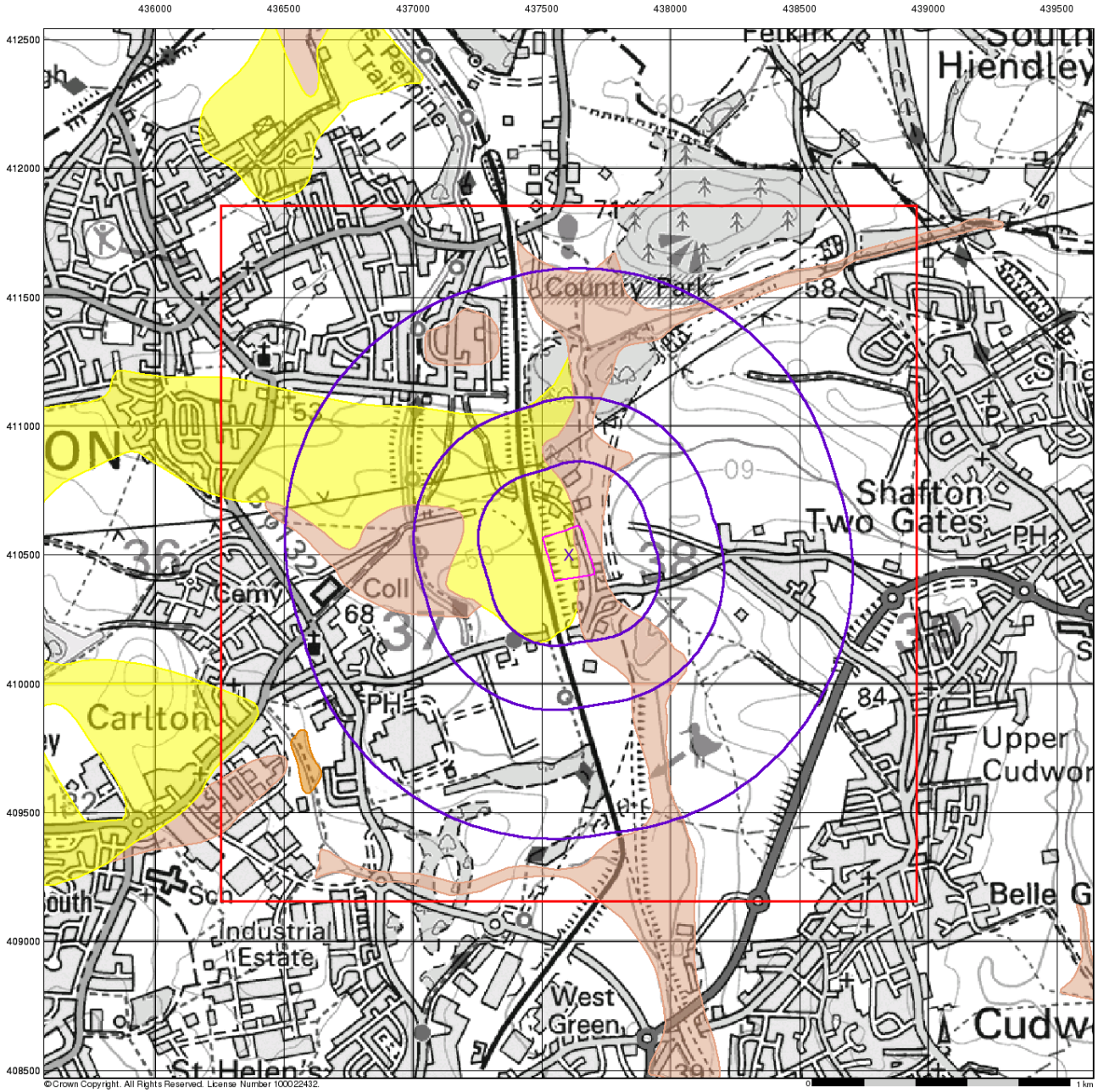


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# Superficial Aquifer Designation

## General

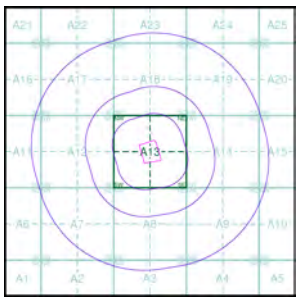
Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

## Agency and Hydrological

**Geological Classes**

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

## Site Sensitivity Context Map - Slice A

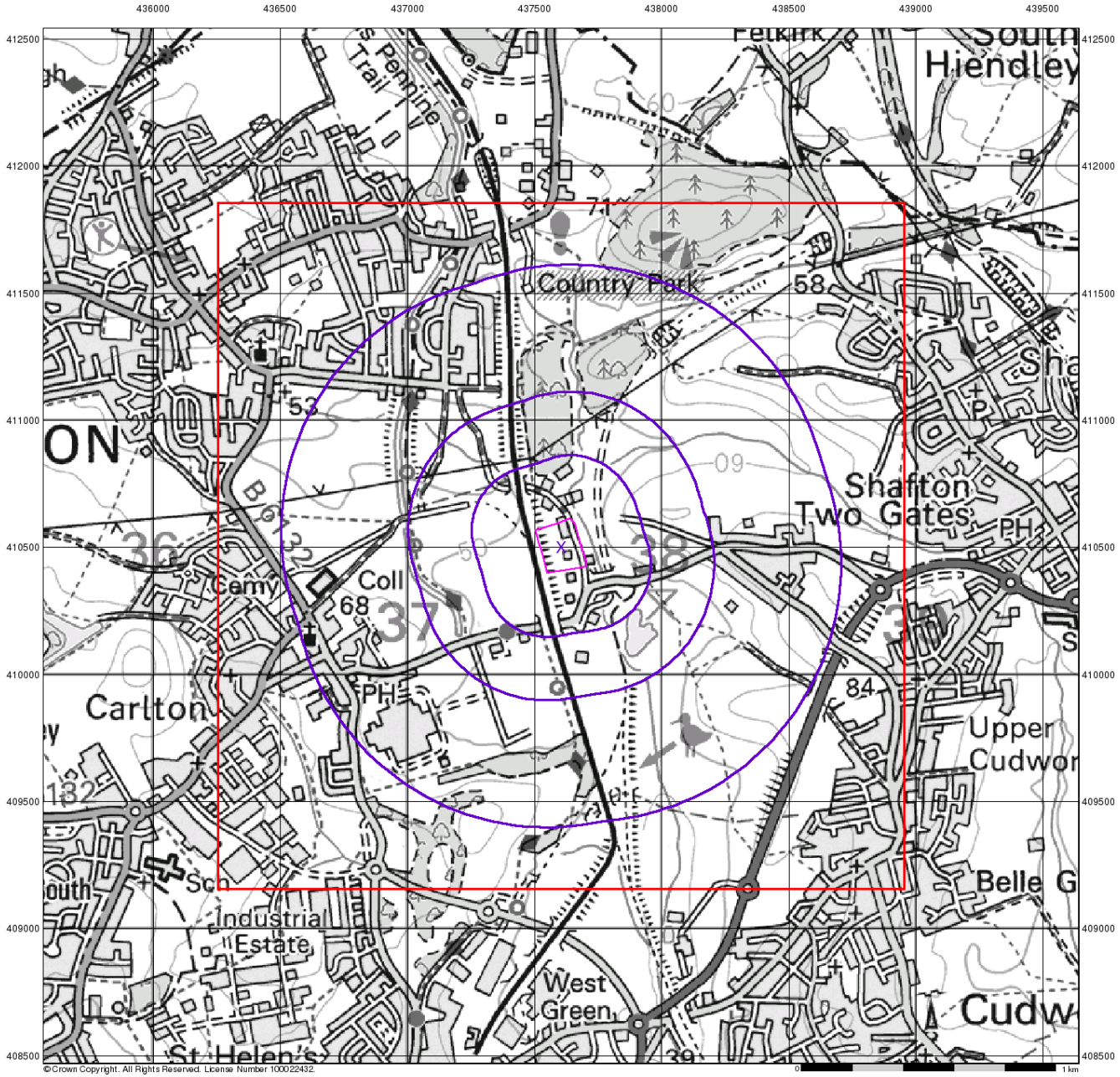



## Order Details

| | |
|---|---|
| Order Number: | 140347875_1_1 |
| Customer Ref: | JER6108 |
| National Grid Reference: | 437600, 410500 |
| Slice: | A |
| Site Area (Ha): | 2.93 |
| Search Buffer (m): | 1000 |

## Site Details

WFS Metals,, Boulder Bridge Lane, Carlton, BARNSLEY, S71 3HJ

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# Source Protection Zones

## General

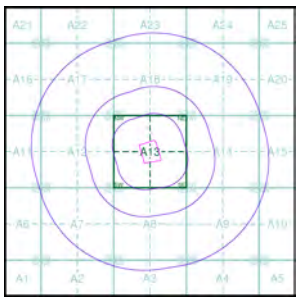
Specified Site | Specified Buffer(s) | Bearing Reference Point

Slice | Map ID

## Agency and Hydrological

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

## Site Sensitivity Context Map - Slice A




## Order Details

| | |
|---|---|
| Order Number: | 140347875_1_1 |
| Customer Ref: | JER6108 |
| National Grid Reference: | 437600, 410500 |
| Slice: | A |
| Site Area (Ha): | 2.93 |
| Search Buffer (m): | 1000 |

## Site Details

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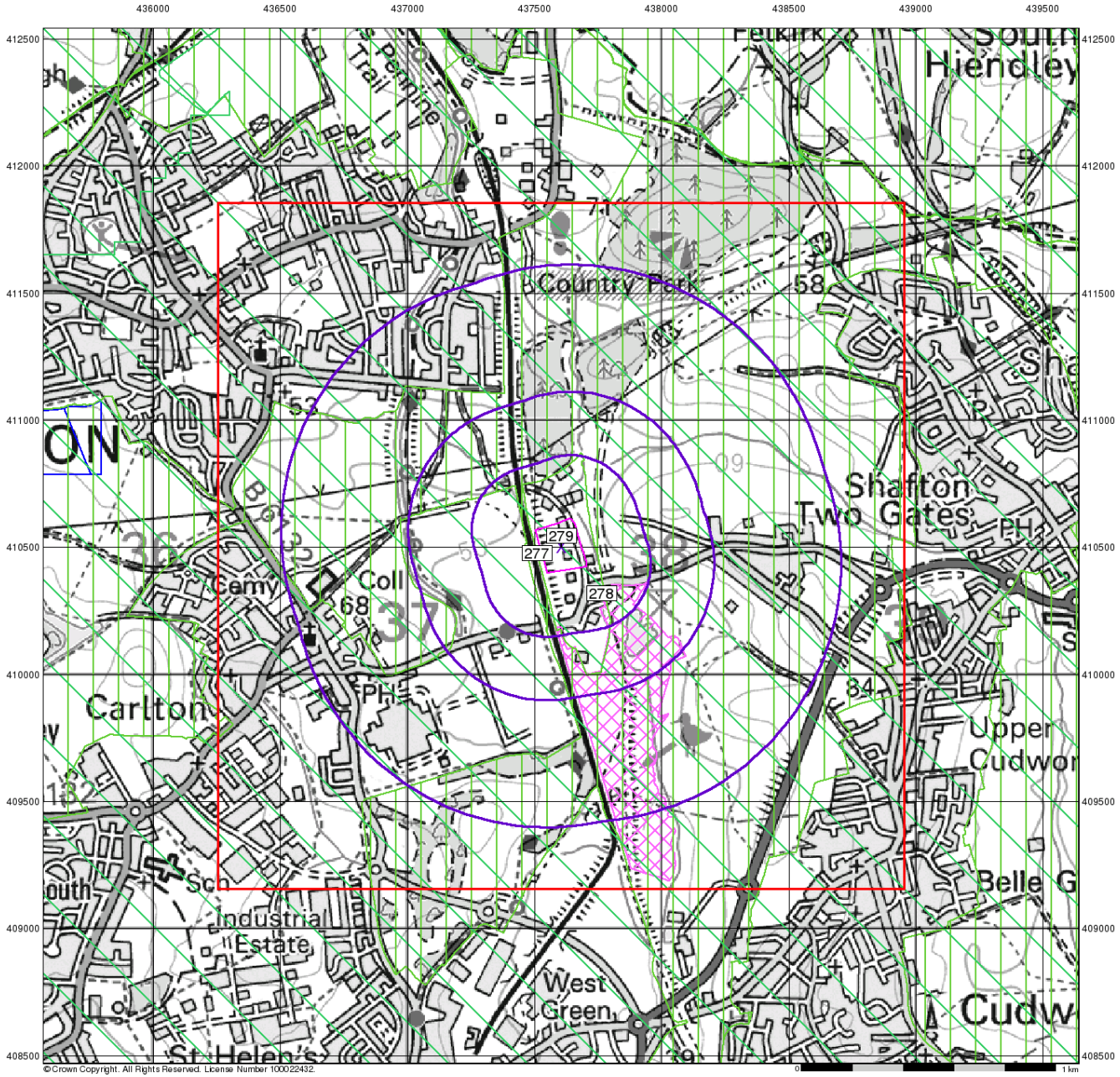


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## Sensitive Land Uses

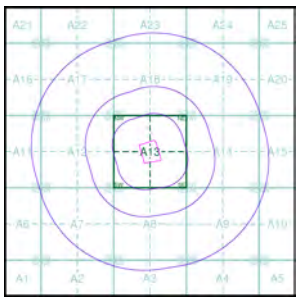
### General

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

### Sensitive Land Uses

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

### Site Sensitivity Context Map - Slice A

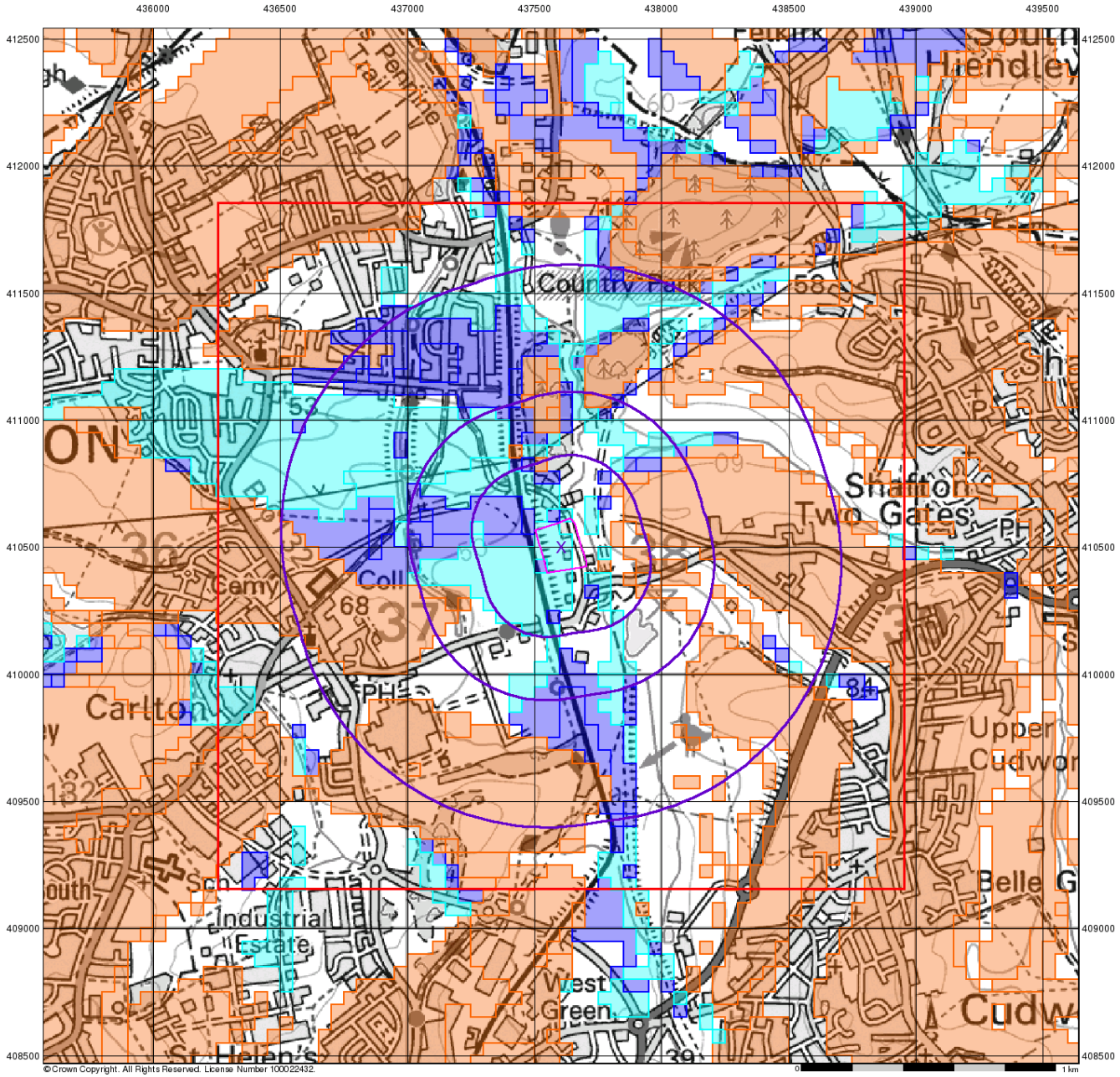



### Order Details

| | |
|---|---|
| Order Number: | 140347875_1_1 |
| Customer Ref: | JER6108 |
| National Grid Reference: | 437600, 410500 |
| Slice: | A |
| Site Area (Ha): | 2.93 |
| Search Buffer (m): | 1000 |

### Site Details

WFS Metals,, Boulder Bridge Lane, Carlton, BARNSLEY, S71 3HJ

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## BGS Flood GFS Data

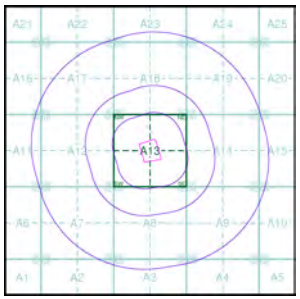
### General

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

### Agency and Hydrological (Flood)

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

### Site Sensitivity Context Map - Slice A




### Order Details

| | |
|---|---|
| Order Number: | 140347875_1_1 |
| Customer Ref: | JER6108 |
| National Grid Reference: | 437600, 410500 |
| Slice: | A |
| Site Area (Ha): | 2.93 |
| Search Buffer (m): | 1000 |

### Site Details

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

# Envirocheck® Report:

# Datasheet

## Order Details:

**Order Number:**
140347875_1_1

**Customer Reference:**
JER6108

**National Grid Reference:**
437600, 410500

**Slice:**
A

**Site Area (Ha):**
2.93

**Search Buffer (m):**
1000

## Site Details:

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BARNSLEY
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## Client Details:

Mr H Bonham
RPS Consultants
260 Park Avenue
Aztec West
Almondsbury
Bristol
BS32 4SY

# Contents


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| Sensitive Land Use | 78 |
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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/Natural Resources Wales and the Scottish Environment Protection Agency; it also incorporates data from Natural England (and the Scottish and Welsh equivalents) and Local Authorities; and highlights hydrogeological features required by environmental and geotechnical consultants. It does not include any information concerning past uses of land. The datasheet is produced by querying the Landmark database to a distance defined by the client from a site boundary provided by the client.

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

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**Report Version v53.0**

# Summary

| Data Type | Page Number | On Site | 0 to 250m | 251 to 500m | 501 to 1000m (*up to 2000m) |
|---|---|---|---|---|---|
| **Agency & Hydrological** | | | | | |
| BGS Groundwater Flooding Susceptibility | pg 1 | Yes | Yes | Yes | n/a |
| Contaminated Land Register Entries and Notices | | | | | |
| Discharge Consents | pg 4 | | 2 | 6 | 2 |
| Prosecutions Relating to Controlled Waters | | | n/a | n/a | n/a |
| Enforcement and Prohibition Notices | | | | | |
| Integrated Pollution Controls | | | | | |
| Integrated Pollution Prevention And Control | pg 6 | | 2 | | 1 |
| Local Authority Integrated Pollution Prevention And Control | | | | | |
| Local Authority Pollution Prevention and Controls | pg 7 | | 3 | | |
| Local Authority Pollution Prevention and Control Enforcements | pg 7 | | 1 | | |
| Nearest Surface Water Feature | pg 8 | | Yes | | |
| Pollution Incidents to Controlled Waters | pg 8 | 2 | 38 | 16 | 9 |
| Prosecutions Relating to Authorised Processes | pg 19 | | 2 | | |
| Registered Radioactive Substances | | | | | |
| River Quality | pg 19 | | 3 | | 1 |
| River Quality Biology Sampling Points | | | | | |
| River Quality Chemistry Sampling Points | | | | | |
| Substantiated Pollution Incident Register | pg 19 | | 6 | 8 | 3 |
| Water Abstractions | pg 22 | | 1 | | 1 (*10) |
| Water Industry Act Referrals | | | | | |
| Groundwater Vulnerability | pg 24 | Yes | n/a | n/a | n/a |
| Drift Deposits | pg 25 | 1 | n/a | n/a | n/a |
| Bedrock Aquifer Designations | pg 25 | Yes | n/a | n/a | n/a |
| Superficial Aquifer Designations | pg 25 | Yes | n/a | n/a | n/a |
| Source Protection Zones | | | | | |
| Extreme Flooding from Rivers or Sea without Defences | pg 25 | | Yes | n/a | n/a |
| Flooding from Rivers or Sea without Defences | pg 25 | | Yes | 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 |
| OS Water Network Lines | pg 25 | | 8 | 23 | 76 |

# Summary

| Data Type | Page Number | On Site | 0 to 250m | 251 to 500m | 501 to 1000m (*up to 2000m) |
|---|---|---|---|---|---|
| **Waste** | | | | | |
| BGS Recorded Landfill Sites | | | | | |
| Historical Landfill Sites | pg 38 | | 2 | 2 | 1 |
| Integrated Pollution Control Registered Waste Sites | | | | | |
| Licensed Waste Management Facilities (Landfill Boundaries) | pg 39 | | | 1 | |
| Licensed Waste Management Facilities (Locations) | pg 39 | 1 | 24 | 6 | |
| Local Authority Landfill Coverage | pg 46 | 1 | n/a | n/a | n/a |
| Local Authority Recorded Landfill Sites | pg 46 | | 2 | 3 | 1 |
| Potentially Infilled Land (Non-Water) | pg 47 | | | 2 | 5 |
| Potentially Infilled Land (Water) | pg 48 | | | 1 | 3 |
| Registered Landfill Sites | pg 48 | | 1 | 3 | 4 |
| Registered Waste Transfer Sites | pg 51 | | 2 | 1 | |
| Registered Waste Treatment or Disposal Sites | pg 52 | 5 | 29 | 4 | |
| **Hazardous Substances** | | | | | |
| Control of Major Accident Hazards Sites (COMAH) | pg 65 | | | | 1 |
| Explosive Sites | | | | | |
| Notification of Installations Handling Hazardous Substances (NIHHS) | pg 65 | | | | 1 |
| Planning Hazardous Substance Consents | pg 65 | | | | 1 |
| Planning Hazardous Substance Enforcements | | | | | |

# Summary

| Data Type | Page Number | On Site | 0 to 250m | 251 to 500m | 501 to 1000m (*up to 2000m) |
|---|---|---|---|---|---|
| **Geological** | | | | | |
| BGS 1:625,000 Solid Geology | pg 66 | Yes | n/a | n/a | n/a |
| BGS Estimated Soil Chemistry | pg 66 | Yes | | Yes | Yes |
| BGS Recorded Mineral Sites | pg 67 | | | 1 | 5 |
| BGS Urban Soil Chemistry | | | | | |
| BGS Urban Soil Chemistry Averages | | | | | |
| CBSCB Compensation District | | | n/a | n/a | n/a |
| Coal Mining Affected Areas | pg 68 | Yes | n/a | n/a | n/a |
| Mining Instability | pg 68 | Yes | n/a | n/a | n/a |
| Man-Made Mining Cavities | | | | | |
| Natural Cavities | | | | | |
| Non Coal Mining Areas of Great Britain | pg 68 | Yes | Yes | n/a | n/a |
| Potential for Collapsible Ground Stability Hazards | pg 68 | Yes | | n/a | n/a |
| Potential for Compressible Ground Stability Hazards | pg 68 | Yes | Yes | n/a | n/a |
| Potential for Ground Dissolution Stability Hazards | | | | n/a | n/a |
| Potential for Landslide Ground Stability Hazards | pg 69 | Yes | Yes | n/a | n/a |
| Potential for Running Sand Ground Stability Hazards | pg 69 | Yes | Yes | n/a | n/a |
| Potential for Shrinking or Swelling Clay Ground Stability Hazards | pg 69 | Yes | Yes | n/a | n/a |
| Radon Potential - Radon Affected Areas | pg 70 | Yes | n/a | n/a | n/a |
| Radon Potential - Radon Protection Measures | pg 70 | Yes | n/a | n/a | n/a |
| **Industrial Land Use** | | | | | |
| Contemporary Trade Directory Entries | pg 71 | 1 | 21 | 2 | 11 |
| Fuel Station Entries | | | | | |
| Points of Interest - Commercial Services | pg 74 | | 21 | 9 | 4 |
| Points of Interest - Education and Health | | | | | |
| Points of Interest - Manufacturing and Production | pg 76 | | 3 | 3 | 2 |
| Points of Interest - Public Infrastructure | pg 77 | | | 2 | 1 |
| Points of Interest - Recreational and Environmental | | | | | |
| Gas Pipelines | | | | | |
| Underground Electrical Cables | | | | | |

# Summary

| Data Type | Page Number | On Site | 0 to 250m | 251 to 500m | 501 to 1000m (*up to 2000m) |
|---|---|---|---|---|---|
| **Sensitive Land Use** | | | | | |
| Ancient Woodland | | | | | |
| Areas of Adopted Green Belt | pg 78 | | 1 | | |
| Areas of Unadopted Green Belt | | | | | |
| Areas of Outstanding Natural Beauty | | | | | |
| Environmentally Sensitive Areas | | | | | |
| Forest Parks | | | | | |
| Local Nature Reserves | pg 78 | | 1 | | |
| Marine Nature Reserves | | | | | |
| National Nature Reserves | | | | | |
| National Parks | | | | | |
| Nitrate Sensitive Areas | | | | | |
| Nitrate Vulnerable Zones | pg 78 | 1 | | | |
| Ramsar Sites | | | | | |
| Sites of Special Scientific Interest | | | | | |
| Special Areas of Conservation | | | | | |
| Special Protection Areas | | | | | |
| World Heritage Sites | | | | | |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| | **BGS Groundwater Flooding Susceptibility**<br>Flooding Type: Potential for Groundwater Flooding to Occur at Surface | A13NE (N) | 0 | 1 | 437605 410600 |
| | **BGS Groundwater Flooding Susceptibility**<br>Flooding Type: Potential for Groundwater Flooding to Occur at Surface | A13SE (SW) | 0 | 1 | 437605 410501 |
| | **BGS Groundwater Flooding Susceptibility**<br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | A13SW (SW) | 0 | 1 | 437550 410450 |
| | **BGS Groundwater Flooding Susceptibility**<br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | A13NW (NW) | 3 | 1 | 437500 410550 |
| | **BGS Groundwater Flooding Susceptibility**<br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | A13NW (N) | 3 | 1 | 437600 410600 |
| | **BGS Groundwater Flooding Susceptibility**<br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | A13SW (W) | 8 | 1 | 437500 410501 |
| | **BGS Groundwater Flooding Susceptibility**<br>Flooding Type: Potential for Groundwater Flooding to Occur at Surface | A13NW (NW) | 18 | 1 | 437550 410600 |
| | **BGS Groundwater Flooding Susceptibility**<br>Flooding Type: Potential for Groundwater Flooding to Occur at Surface | A13SE (SE) | 23 | 1 | 437700 410400 |
| | **BGS Groundwater Flooding Susceptibility**<br>Flooding Type: Potential for Groundwater Flooding to Occur at Surface | A13NE (NE) | 27 | 1 | 437700 410550 |
| | **BGS Groundwater Flooding Susceptibility**<br>Flooding Type: Limited Potential for Groundwater Flooding to Occur | A13SE (E) | 44 | 1 | 437750 410450 |
| | **BGS Groundwater Flooding Susceptibility**<br>Flooding Type: Potential for Groundwater Flooding to Occur at Surface | A13SE (E) | 47 | 1 | 437750 410500 |
| | **BGS Groundwater Flooding Susceptibility**<br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | A13NW (W) | 53 | 1 | 437450 410550 |
| | **BGS Groundwater Flooding Susceptibility**<br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | A13SE (SE) | 72 | 1 | 437700 410350 |
| | **BGS Groundwater Flooding Susceptibility**<br>Flooding Type: Limited Potential for Groundwater Flooding to Occur | A13SE (E) | 109 | 1 | 437800 410501 |
| | **BGS Groundwater Flooding Susceptibility**<br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | A13NE (NE) | 110 | 1 | 437750 410650 |
| | **BGS Groundwater Flooding Susceptibility**<br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | A13NW (N) | 144 | 1 | 437600 410750 |
| | **BGS Groundwater Flooding Susceptibility**<br>Flooding Type: Limited Potential for Groundwater Flooding to Occur | A13SE (E) | 146 | 1 | 437850 410500 |
| | **BGS Groundwater Flooding Susceptibility**<br>Flooding Type: Limited Potential for Groundwater Flooding to Occur | A13SE (E) | 148 | 1 | 437850 410400 |
| | **BGS Groundwater Flooding Susceptibility**<br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | A13SW (S) | 149 | 1 | 437600 410250 |
| | **BGS Groundwater Flooding Susceptibility**<br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | A13NE (NE) | 175 | 1 | 437750 410750 |
| | **BGS Groundwater Flooding Susceptibility**<br>Flooding Type: Limited Potential for Groundwater Flooding to Occur | A13NE (NE) | 178 | 1 | 437800 410700 |
| | **BGS Groundwater Flooding Susceptibility**<br>Flooding Type: Limited Potential for Groundwater Flooding to Occur | A13NE (E) | 185 | 1 | 437850 410600 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| | **BGS Groundwater Flooding Susceptibility**<br>Flooding Type: Potential for Groundwater Flooding to Occur at Surface | A13SE (SE) | 199 | 1 | 437800 410250 |
| | **BGS Groundwater Flooding Susceptibility**<br>Flooding Type: Potential for Groundwater Flooding to Occur at Surface | A13NW (W) | 203 | 1 | 437300 410550 |
| | **BGS Groundwater Flooding Susceptibility**<br>Flooding Type: Limited Potential for Groundwater Flooding to Occur | A13NW (N) | 208 | 1 | 437550 410800 |
| | **BGS Groundwater Flooding Susceptibility**<br>Flooding Type: Limited Potential for Groundwater Flooding to Occur | A13SE (SE) | 210 | 1 | 437900 410350 |
| | **BGS Groundwater Flooding Susceptibility**<br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | A13NW (N) | 224 | 1 | 437500 410800 |
| | **BGS Groundwater Flooding Susceptibility**<br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | A13NW (NW) | 238 | 1 | 437450 410800 |
| | **BGS Groundwater Flooding Susceptibility**<br>Flooding Type: Potential for Groundwater Flooding to Occur at Surface | A13NE (NE) | 245 | 1 | 437800 410800 |
| | **BGS Groundwater Flooding Susceptibility**<br>Flooding Type: Limited Potential for Groundwater Flooding to Occur | A13NE (NE) | 248 | 1 | 437850 410750 |
| | **BGS Groundwater Flooding Susceptibility**<br>Flooding Type: Potential for Groundwater Flooding to Occur at Surface | A18SW (N) | 254 | 1 | 437550 410850 |
| | **BGS Groundwater Flooding Susceptibility**<br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | A12SE (W) | 254 | 1 | 437250 410501 |
| | **BGS Groundwater Flooding Susceptibility**<br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | A13NE (NE) | 279 | 1 | 437850 410800 |
| | **BGS Groundwater Flooding Susceptibility**<br>Flooding Type: Limited Potential for Groundwater Flooding to Occur | A18SW (NW) | 286 | 1 | 437450 410850 |
| | **BGS Groundwater Flooding Susceptibility**<br>Flooding Type: Potential for Groundwater Flooding to Occur at Surface | A18SW (N) | 290 | 1 | 437600 410900 |
| | **BGS Groundwater Flooding Susceptibility**<br>Flooding Type: Potential for Groundwater Flooding to Occur at Surface | A18SW (NW) | 301 | 1 | 437400 410850 |
| | **BGS Groundwater Flooding Susceptibility**<br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | A18SW (N) | 302 | 1 | 437550 410900 |
| | **BGS Groundwater Flooding Susceptibility**<br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | A8NE (S) | 303 | 1 | 437605 410100 |
| | **BGS Groundwater Flooding Susceptibility**<br>Flooding Type: Limited Potential for Groundwater Flooding to Occur | A12SE (SW) | 304 | 1 | 437250 410350 |
| | **BGS Groundwater Flooding Susceptibility**<br>Flooding Type: Potential for Groundwater Flooding to Occur at Surface | A18SE (N) | 307 | 1 | 437750 410900 |
| | **BGS Groundwater Flooding Susceptibility**<br>Flooding Type: Limited Potential for Groundwater Flooding to Occur | A12SE (SW) | 317 | 1 | 437250 410300 |
| | **BGS Groundwater Flooding Susceptibility**<br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | A13NE (NE) | 318 | 1 | 437900 410800 |
| | **BGS Groundwater Flooding Susceptibility**<br>Flooding Type: Limited Potential for Groundwater Flooding to Occur | A14SW (SE) | 322 | 1 | 438000 410300 |
| | **BGS Groundwater Flooding Susceptibility**<br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | A18SW (N) | 334 | 1 | 437450 410900 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| | **BGS Groundwater Flooding Susceptibility**<br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | A18SE (N) | 337 | 1 | 437605 410950 |
| | **BGS Groundwater Flooding Susceptibility**<br>Flooding Type: Limited Potential for Groundwater Flooding to Occur | A18SW (N) | 340 | 1 | 437600 410950 |
| | **BGS Groundwater Flooding Susceptibility**<br>Flooding Type: Limited Potential for Groundwater Flooding to Occur | A12SE (SW) | 381 | 1 | 437200 410250 |
| | **BGS Groundwater Flooding Susceptibility**<br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | A18SE (N) | 387 | 1 | 437605 411000 |
| | **BGS Groundwater Flooding Susceptibility**<br>Flooding Type: Potential for Groundwater Flooding to Occur at Surface | A18SE (N) | 388 | 1 | 437650 411000 |
| | **BGS Groundwater Flooding Susceptibility**<br>Flooding Type: Limited Potential for Groundwater Flooding to Occur | A18SW (N) | 390 | 1 | 437600 411000 |
| | **BGS Groundwater Flooding Susceptibility**<br>Flooding Type: Potential for Groundwater Flooding to Occur at Surface | A8NW (S) | 399 | 1 | 437550 410000 |
| | **BGS Groundwater Flooding Susceptibility**<br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | A8NE (S) | 399 | 1 | 437605 410000 |
| | **BGS Groundwater Flooding Susceptibility**<br>Flooding Type: Limited Potential for Groundwater Flooding to Occur | A14NW (NE) | 401 | 1 | 438000 410800 |
| | **BGS Groundwater Flooding Susceptibility**<br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | A18SE (N) | 402 | 1 | 437750 411000 |
| | **BGS Groundwater Flooding Susceptibility**<br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | A12SE (W) | 403 | 1 | 437100 410501 |
| | **BGS Groundwater Flooding Susceptibility**<br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | A12NE (W) | 404 | 1 | 437100 410600 |
| | **BGS Groundwater Flooding Susceptibility**<br>Flooding Type: Potential for Groundwater Flooding to Occur at Surface | A8NE (S) | 426 | 1 | 437750 410000 |
| | **BGS Groundwater Flooding Susceptibility**<br>Flooding Type: Limited Potential for Groundwater Flooding to Occur | A14SW (SE) | 433 | 1 | 438100 410250 |
| | **BGS Groundwater Flooding Susceptibility**<br>Flooding Type: Limited Potential for Groundwater Flooding to Occur | A18SE (N) | 441 | 1 | 437700 411050 |
| | **BGS Groundwater Flooding Susceptibility**<br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | A18SW (N) | 444 | 1 | 437400 411000 |
| | **BGS Groundwater Flooding Susceptibility**<br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | A8NE (SE) | 448 | 1 | 437850 410000 |
| | **BGS Groundwater Flooding Susceptibility**<br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | A8NE (S) | 452 | 1 | 437605 409950 |
| | **BGS Groundwater Flooding Susceptibility**<br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | A18SE (N) | 465 | 1 | 437800 411050 |
| | **BGS Groundwater Flooding Susceptibility**<br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | A19SW (NE) | 470 | 1 | 438050 410850 |
| | **BGS Groundwater Flooding Susceptibility**<br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | A18SW (N) | 477 | 1 | 437450 411050 |
| | **BGS Groundwater Flooding Susceptibility**<br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | A18SE (N) | 487 | 1 | 437605 411100 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| | **BGS Groundwater Flooding Susceptibility**<br>Flooding Type: Potential for Groundwater Flooding to Occur at Surface | A12NE (NW) | 488 | 1 | 437050 410750 |
| | **BGS Groundwater Flooding Susceptibility**<br>Flooding Type: Limited Potential for Groundwater Flooding to Occur | A18SE (N) | 491 | 1 | 437700 411100 |
| | **BGS Groundwater Flooding Susceptibility**<br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | A8NE (SE) | 496 | 1 | 437850 409950 |
| | **BGS Groundwater Flooding Susceptibility**<br>Flooding Type: Limited Potential for Groundwater Flooding to Occur | A18SW (N) | 496 | 1 | 437550 411100 |
| | **BGS Groundwater Flooding Susceptibility**<br>Flooding Type: Limited Potential for Groundwater Flooding to Occur | A14SW (SE) | 500 | 1 | 438150 410200 |
| 1 | **Discharge Consents**<br>Operator: Yorkshire Water Services Ltd<br>Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY)<br>Location: Shaw Lane B Sps Shaw Lane, Carlton, Royston, South Yorkshire<br>Authority: Environment Agency, North East Region<br>Catchment Area: Don Tributaries<br>Reference: Wadc378<br>Permit Version: 2<br>Effective Date: 14th April 2009<br>Issued Date: 14th April 2009<br>Revocation Date: 1st March 2017<br>Discharge Type: Sewage Discharges - Pumping Station - Water Company<br>Discharge Environment: Freshwater Stream/River<br>Receiving Water: Cudworth Dyke<br>**Status: Surrendered under EPR 2010**<br>Positional Accuracy: Located by supplier to within 10m | A13SE (S) | 232 | 2 | 437650 410180 |
| 1 | **Discharge Consents**<br>Operator: Yorkshire Water Services Ltd<br>Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY)<br>Location: Shaw Lane B Sps Shaw Lane, Carlton, Royston, South Yorkshire<br>Authority: Environment Agency, North East Region<br>Catchment Area: Don Tributaries<br>Reference: Wadc378<br>Permit Version: 1<br>Effective Date: 2nd November 1989<br>Issued Date: 2nd November 1989<br>Revocation Date: 13th April 2009<br>Discharge Type: Sewage Discharges - Pumping Station - Water Company<br>Discharge Environment: Freshwater Stream/River<br>Receiving Water: Cudworth Dyke<br>**Status: Transferred from Water Act 1989**<br>Positional Accuracy: Located by supplier to within 100m | A13SE (S) | 232 | 2 | 437650 410180 |
| 2 | **Discharge Consents**<br>Operator: Yorkshire Water Services Ltd<br>Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY)<br>Location: Royston (Carlton-Shaw Lane) Sewage Pumping Station, Carlton, Barnsley, South Yorkshire<br>Authority: Environment Agency, North East Region<br>Catchment Area: Don Tributaries<br>Reference: Wra7675<br>Permit Version: 1<br>Effective Date: 27th March 2001<br>Issued Date: 27th March 2001<br>Revocation Date: Not Supplied<br>Discharge Type: Sewage Discharges - Pumping Station - Water Company<br>Discharge Environment: Freshwater Stream/River<br>Receiving Water: Shaw Dyke<br>**Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)**<br>Positional Accuracy: Located by supplier to within 10m | A13SE (SE) | 258 | 2 | 437790 410180 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
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| 3 | **Discharge Consents**<br>Operator: Yorkshire Water Services Ltd<br>Property Type: Sewerage Network - Pumping Station - Others<br>Location: Royston (Carlton-Shaw Lane) Sewage Pumping Station, Carlton, Barnsley, South Yorkshire<br>Authority: Environment Agency, North East Region<br>Catchment Area: Don Tributaries<br>Reference: Wra7675<br>Permit Version: 2<br>Effective Date: 1st April 2004<br>Issued Date: 27th March 2001<br>Revocation Date: Not Supplied<br>Discharge Type: Sewage Discharges - Pumping Station - Water Company<br>Discharge Environment: Freshwater Stream/River<br>Receiving Water: Shaw Dyke<br>**Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)**<br>Positional Accuracy: Located by supplier to within 10m | A8NW (S) | 271 | 2 | 437470 410140 |
| 4 | **Discharge Consents**<br>Operator: Yorkshire Water Services Ltd<br>Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY)<br>Location: Royston Cso Pools Lane, Royston, Barnsley, South Yorkshire<br>Authority: Environment Agency, North East Region<br>Catchment Area: Don Tributaries<br>Reference: C4871<br>Permit Version: 3<br>Effective Date: 24th March 2010<br>Issued Date: 24th March 2010<br>Revocation Date: Not Supplied<br>Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company<br>Discharge Environment: Freshwater Stream/River<br>Receiving Water: Pools Dike<br>**Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)**<br>Positional Accuracy: Located by supplier to within 100m | A18SE (N) | 293 | 2 | 437700 410900 |
| 4 | **Discharge Consents**<br>Operator: Yorkshire Water Services Ltd<br>Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY)<br>Location: Royston Cso Pools Lane, Royston, Barnsley, South Yorkshire<br>Authority: Environment Agency, North East Region<br>Catchment Area: Don Tributaries<br>Reference: C4871<br>Permit Version: 2<br>Effective Date: 22nd March 2010<br>Issued Date: 22nd February 2005<br>Revocation Date: 23rd March 2010<br>Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company<br>Discharge Environment: Freshwater Stream/River<br>Receiving Water: Pools Dike<br>**Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)**<br>Positional Accuracy: Located by supplier to within 100m | A18SE (N) | 293 | 2 | 437700 410900 |
| 4 | **Discharge Consents**<br>Operator: Yorkshire Water Services Ltd<br>Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY)<br>Location: Royston Cso Pools Lane, Royston, Barnsley, South Yorkshire<br>Authority: Environment Agency, North East Region<br>Catchment Area: Don Tributaries<br>Reference: C4871<br>Permit Version: 1<br>Effective Date: 18th November 1987<br>Issued Date: 18th November 1987<br>Revocation Date: 21st March 2010<br>Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company<br>Discharge Environment: Freshwater Stream/River<br>Receiving Water: Pools Dike<br>**Status: Transferred from COPA 1974**<br>Positional Accuracy: Located by supplier to within 100m | A18SE (N) | 293 | 2 | 437700 410900 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| 5 | **Discharge Consents**<br>Operator: Yorkshire Water Services Ltd<br>Property Type: Pumping Station<br>Location: Shaw Lane Ps , CARLTON, South Yorkshire<br>Authority: Environment Agency, North East Region<br>Catchment Area: Dearne<br>Reference: WADC379<br>Permit Version: Not Supplied<br>Effective Date: Not Supplied<br>Issued Date: Not Supplied<br>Revocation Date: Not Supplied<br>Discharge Type: Storm sewage overflow discharge<br>Discharge Environment: Freshwater Stream/River<br>Receiving Water: Shaw Dyke<br>**Status: Not Supplied**<br>Positional Accuracy: Located by supplier to within 100m | A8NE (SE) | 344 | 2 | 437805 410095 |
| 6 | **Discharge Consents**<br>Operator: Monckton Coke & Chemical Co Ltd<br>Property Type: Undefined Or Other<br>Location: Monkton Coke And Chemical Works,Out, Let 1<br>Authority: Environment Agency, North East Region<br>Catchment Area: Don Tributaries<br>Reference: E120<br>Permit Version: 1<br>Effective Date: 11th October 1968<br>Issued Date: 11th October 1968<br>Revocation Date: 15th May 1988<br>Discharge Type: Trade Effluent<br>Discharge Environment: Freshwater Stream/River<br>Receiving Water: Trib Of Pools Dyke<br>**Status: Transferred from Rivers (Prevention of Pollution) Act 1951-1961**<br>Positional Accuracy: Located by supplier to within 100m | A18NE (N) | 690 | 2 | 437700 411300 |
| 7 | **Discharge Consents**<br>Operator: Yorkshire Water Services Ltd<br>Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY)<br>Location: Royston Lane B Sewage Pumping Stn, Royston Lane, Barnsley, South Yorkshire<br>Authority: Environment Agency, North East Region<br>Catchment Area: Don Tributaries<br>Reference: Wra7801<br>Permit Version: 1<br>Effective Date: 26th February 2002<br>Issued Date: 26th February 2002<br>Revocation Date: Not Supplied<br>Discharge Type: Sewage Discharges - Pumping Station - Water Company<br>Discharge Environment: Freshwater Stream/River<br>Receiving Water: Unnamed Trib Of Pools Dike<br>**Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)**<br>Positional Accuracy: Located by supplier to within 10m | A17SW (NW) | 939 | 2 | 436680 411020 |
| 8 | **Integrated Pollution Prevention And Control**<br>Name: C K Beckett<br>Location: C K Beckett Oil Processing, C K Beckett, Boulder Bridge Lane,Carlton,, Barnsley, South Yorkshire, S71 3HJ<br>Authority: Environment Agency, North East Region<br>Permit Reference: QP3439VQ<br>Original Permit Ref: Xp3536ub<br>Effective Date: 14th March 2014<br>**Status: Effective**<br>Application Type: Variation<br>App. Sub Type: Minor<br>Positional Accuracy: Automatically positioned to the address<br>Activity Code: 0.0 Associated Process<br>Activity Description: Associated Process<br>Primary Activity: N<br>Activity Code: 5.3 A(1) a) (ii)<br>Activity Description: DISPOSAL OR RECOVERY OF HAZARDOUS WASTE WITH A CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING PHYSICO-CHEMICAL TREATMENT<br>Primary Activity: Y<br>Activity Code: 5.6 A(1) a)<br>Activity Description: TEMPORARY STORAGE OF HAZ WASTE NOT UNDER S 5.2 PENDING ACTIVITIES LISTED IN S 5.1, 5.2, 5.3 AND PARAGRAPH (B) OF THIS SECTION WITH A TOTAL CAPACITY > 50 TONNES, EXCL TEMP STORAGE WHERE GENERATED<br>Primary Activity: N | A13NW (N) | 112 | 2 | 437542 410696 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
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| 8 | **Integrated Pollution Prevention And Control**<br>Name: C K Beckett<br>Location: Shaw Lane, Carlton, Barnsley, South Yorkshire, S71 3HJ<br>Authority: Environment Agency, North East Region<br>Permit Reference: XP3536UB<br>Original Permit Ref: Xp3536ub<br>Effective Date: 27th May 2008<br>**Status:** **Superseded By Variation**<br>Application Type: Application<br>App. Sub Type: New<br>Positional Accuracy: Automatically positioned to the address<br>Activity Code: 5.3 A(1) (B)<br>Activity Description: Other Waste Disposal; Waste Oils Greater Than 10T/Day<br>Primary Activity: Y | A13NW (N) | 112 | 2 | 437542 410696 |
| 9 | **Integrated Pollution Prevention And Control**<br>Name: Premier Foods Group Ltd<br>Location: Premier Foods Carlton Epr/Yp3336vq, Premier Foods Carlton, Fish Dam Lane,Carlton, Barnsley, S71 3hq, South Yorkshire<br>Authority: Environment Agency, North East Region<br>Permit Reference: YP3336VQ<br>Original Permit Ref: Yp3336vq<br>Effective Date: 16th February 2016<br>**Status:** **Effective**<br>Application Type: Application<br>App. Sub Type: New<br>Positional Accuracy: Automatically positioned to the address<br>Activity Code: 5.4 A(1) a) (i)<br>Activity Description: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING BIOLOGICAL TREATMENT<br>Primary Activity: N<br>Activity Code: 6.8 A(1) d) (iii)<br>Activity Description: CREATED BY IED - TREATMENT AND PROCESSING (OTHER THAN PACKAGING) OF ANIMAL OR VEGETABLE RAW MATERIALS (OTHER THAN MILK ONLY) WITH FINISHED PRODUCT CAPACITY GREATER THAN FORMULA SHOWN IN REGS<br>Primary Activity: Y | A7SW (SW) | 929 | 2 | 436894 409742 |
| 10 | **Local Authority Pollution Prevention and Controls**<br>Name: Ever Ready Mix Ltd<br>Location: Site 4 Boulder Bridge Lane, Carlton, Barnsley<br>Authority: Barnsley Metropolitan Borough Council, Environmental Health and Trading Standards<br>Permit Reference: PPC/B/131<br>Dated: Not Supplied<br>Process Type: Local Authority Pollution Prevention and Control<br>Description: PG3/1Blending, packing, loading and use of bulk cement<br>**Status:** **Permitted**<br>Positional Accuracy: Manually positioned to the road within the address or location | A13NE (NE) | 4 | 3 | 437680 410532 |
| 11 | **Local Authority Pollution Prevention and Controls**<br>Name: Heeley Concrete<br>Location: Boulder Bridge Lane, Carlton, Barnsley<br>Authority: Barnsley Metropolitan Borough Council, Environmental Health and Trading Standards<br>Permit Reference: PPC/B/70<br>Dated: 22nd September 2006<br>Process Type: Local Authority Pollution Prevention and Control<br>Description: PG3/1Blending, packing, loading and use of bulk cement<br>**Status:** **Site Closed**<br>Positional Accuracy: Located by supplier to within 10m | A13NE (NE) | 94 | 3 | 437701 410686 |
| 12 | **Local Authority Pollution Prevention and Controls**<br>Name: C K Beckett<br>Location: Shaw Lane, Carlton, BARNSLEY, South Yorkshire, S71 3HJ<br>Authority: Barnsley Metropolitan Borough Council, Environmental Health and Trading Standards<br>Permit Reference: Ppc/B/47<br>Dated: 26th January 1998<br>Process Type: Local Authority Pollution Prevention and Control<br>Description: PG2/1Furnaces for the extraction of non-ferrous metal from scrap<br>**Status:** **Permitted**<br>Positional Accuracy: Located by supplier to within 10m | A13SE (S) | 106 | 3 | 437639 410306 |
| 13 | **Local Authority Pollution Prevention and Control Enforcements**<br>Location: Shaw Lane, Carlton, Barnsley, S71 3HJ<br>Type: Air Pollution Control Enforcement Notice<br>Reference: PPC/B/47<br>Date Issued: Not Supplied<br>Enforcement Date: Not Supplied<br>Details: Reg 25 Notice<br>Positional Accuracy: Located by supplier to within 10m | A13SE (S) | 106 | 3 | 437639 410306 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
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| | **Nearest Surface Water Feature** | A13SE (SE) | 24 | - | 437720 410407 |
| 14 | **Pollution Incidents to Controlled Waters**<br>Property Type: Water Company Sewage: Storm Overflow<br>Location: Cudworth Dyke At, Boulder Bridge<br>Authority: Environment Agency, North East Region<br>Pollutant: Sewage - Storm Overflow<br>Note: No Fish Killed<br>Incident Date: 22nd August 1997<br>Incident Reference: SH970445<br>Catchment Area: Dearne Tributaries<br>Receiving Water: Freshwater Stream/River<br>Cause of Incident: Not Given<br>Incident Severity: Category 2 - Significant Incident<br>Positional Accuracy: Located by supplier to within 100m | A13NW (N) | 0 | 2 | 437600 410595 |
| 14 | **Pollution Incidents to Controlled Waters**<br>Property Type: Industrial: Other<br>Location: Ripleys Yard, Boulder Bridge<br>Authority: Environment Agency, North East Region<br>Pollutant: Chemicals - Detergents/Surfactant<br>Note: No Fish Killed<br>Incident Date: 9th January 1995<br>Incident Reference: SH950091<br>Catchment Area: Dearne Tributaries<br>Receiving Water: Freshwater Stream/River<br>Cause of Incident: Not Given<br>Incident Severity: Category 3 - Minor Incident<br>Positional Accuracy: Located by supplier to within 100m | A13NE (N) | 0 | 2 | 437605 410595 |
| 14 | **Pollution Incidents to Controlled Waters**<br>Property Type: Industrial Premises<br>Location: Edderthorpe Lane/Rail Viadct Dearne 11<br>Authority: Environment Agency, North East Region<br>Pollutant: Oils - Unknown<br>Note: Not Supplied<br>Incident Date: 22nd December 1993<br>Incident Reference: 149324<br>Catchment Area: Not Given<br>Receiving Water: Freshwater Stream/River<br>Cause of Incident: Not Given<br>Incident Severity: Category 3 - Minor Incident<br>Positional Accuracy: Located by supplier to within 100m | A13NW (N) | 3 | 2 | 437600 410600 |
| 15 | **Pollution Incidents to Controlled Waters**<br>Property Type: Other General Premises<br>Location: Edderthorpe Lane/Rail Viadct Dearne 11<br>Authority: Environment Agency, North East Region<br>Pollutant: Oils - Diesel (Including Agricultural)<br>Note: Not Supplied<br>Incident Date: 1st February 1991<br>Incident Reference: 119313<br>Catchment Area: Not Given<br>Receiving Water: Freshwater Stream/River<br>Cause of Incident: Not Given<br>Incident Severity: Category 3 - Minor Incident<br>Positional Accuracy: Located by supplier to within 100m | A13SE (E) | 12 | 2 | 437700 410495 |
| 15 | **Pollution Incidents to Controlled Waters**<br>Property Type: Industrial Premises<br>Location: Edderthorpe Lane/Rail Viadct Dearne 11<br>Authority: Environment Agency, North East Region<br>Pollutant: Oils - Unknown<br>Note: Not Supplied<br>Incident Date: 17th December 1993<br>Incident Reference: 149315<br>Catchment Area: Not Given<br>Receiving Water: Freshwater Stream/River<br>Cause of Incident: Not Given<br>Incident Severity: Category 3 - Minor Incident<br>Positional Accuracy: Located by supplier to within 100m | A13SE (E) | 14 | 2 | 437700 410500 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
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| 15 | **Pollution Incidents to Controlled Waters**<br>Property Type: Construction/Demolition<br>Location: Edderthorpe Lane/Rail Viadct Dearne 11<br>Authority: Environment Agency, North East Region<br>Pollutant: Oils - Tars/Bitumen<br>Note: Not Supplied<br>Incident Date: 14th July 1992<br>Incident Reference: 134934<br>Catchment Area: Not Given<br>Receiving Water: Freshwater Stream/River<br>Cause of Incident: Not Given<br>Incident Severity: Category 2 - Significant Incident<br>Positional Accuracy: Located by supplier to within 100m | A13SE (E) | 17 | 2 | 437705 410495 |
| 16 | **Pollution Incidents to Controlled Waters**<br>Property Type: Scrapyards<br>Location: Boulder Bridge, CUDWORTH<br>Authority: Environment Agency, North East Region<br>Pollutant: Oils - Waste Oil<br>Note: No Fish Killed<br>Incident Date: 4th February 1997<br>Incident Reference: SH970036<br>Catchment Area: Dearne Tributaries<br>Receiving Water: Freshwater Stream/River<br>Cause of Incident: Not Given<br>Incident Severity: Category 3 - Minor Incident<br>Positional Accuracy: Located by supplier to within 100m | A13SE (SE) | 23 | 2 | 437705 410400 |
| 16 | **Pollution Incidents to Controlled Waters**<br>Property Type: Landfill/Waste Disposal Site<br>Location: Edderthorpe Lane/Rail Viadct Dearne 11<br>Authority: Environment Agency, North East Region<br>Pollutant: Oils - Unknown<br>Note: Not Supplied<br>Incident Date: 24th November 1993<br>Incident Reference: 148815<br>Catchment Area: Not Given<br>Receiving Water: Freshwater Stream/River<br>Cause of Incident: Not Given<br>Incident Severity: Category 3 - Minor Incident<br>Positional Accuracy: Located by supplier to within 100m | A13SE (SE) | 23 | 2 | 437700 410400 |
| 16 | **Pollution Incidents to Controlled Waters**<br>Property Type: Landfill/Waste Disposal Site<br>Location: Edderthorpe Lane/Rail Viadct Dearne 11<br>Authority: Environment Agency, North East Region<br>Pollutant: Oils - Diesel (Including Agricultural)<br>Note: Not Supplied<br>Incident Date: 4th November 1994<br>Incident Reference: 153469<br>Catchment Area: Not Given<br>Receiving Water: Freshwater Stream/River<br>Cause of Incident: Not Given<br>Incident Severity: Category 3 - Minor Incident<br>Positional Accuracy: Located by supplier to within 100m | A13SE (SE) | 27 | 2 | 437700 410395 |
| 16 | **Pollution Incidents to Controlled Waters**<br>Property Type: Miscellaneous Premises: Unknown<br>Location: Edderthorpe Lane/Rail Viadct Dearne 11<br>Authority: Environment Agency, North East Region<br>Pollutant: Sewage - Septic Tank Effluent<br>Note: Not Supplied<br>Incident Date: 4th September 1990<br>Incident Reference: 114377<br>Catchment Area: Not Given<br>Receiving Water: Freshwater Stream/River<br>Cause of Incident: Not Given<br>Incident Severity: Category 2 - Significant Incident<br>Positional Accuracy: Located by supplier to within 100m | A13SE (SE) | 28 | 2 | 437705 410395 |
| 17 | **Pollution Incidents to Controlled Waters**<br>Property Type: Scrapyards<br>Location: Boulder Bridge, Shaw Lane, BARNSLEY<br>Authority: Environment Agency, North East Region<br>Pollutant: Miscellaneous - Fire water / Foam<br>Note: No Fish Killed<br>Incident Date: 11th July 1997<br>Incident Reference: SH970332<br>Catchment Area: Dearne Tributaries<br>Receiving Water: Freshwater Stream/River<br>Cause of Incident: Not Given<br>Incident Severity: Category 3 - Minor Incident<br>Positional Accuracy: Located by supplier to within 100m | A13NE (NE) | 41 | 2 | 437700 410595 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| 17 | **Pollution Incidents to Controlled Waters**<br>Property Type: Scrapyards<br>Location: Boulder Bridge Lane<br>Authority: Environment Agency, North East Region<br>Pollutant: Oils - Waste Oil<br>Note: Pollution Found; No Fish Killed<br>Incident Date: 28th April 1996<br>Incident Reference: SH960144<br>Catchment Area: Dearne Tributaries<br>Receiving Water: Freshwater Stream/River<br>Cause of Incident: Unknown<br>Incident Severity: Category 3 - Minor Incident<br>Positional Accuracy: Located by supplier to within 100m | A13NE (NE) | 43 | 2 | 437700 410600 |
| 17 | **Pollution Incidents to Controlled Waters**<br>Property Type: Scrapyards<br>Location: Boulder Bridge Lane<br>Authority: Environment Agency, North East Region<br>Pollutant: Oils - Waste Oil<br>Note: No Fish Killed<br>Incident Date: 28th April 1996<br>Incident Reference: SH960144<br>Catchment Area: Dearne Tributaries<br>Receiving Water: Freshwater Stream/River<br>Cause of Incident: Not Given<br>Incident Severity: Category 3 - Minor Incident<br>Positional Accuracy: Located by supplier to within 100m | A13NE (NE) | 46 | 2 | 437705 410595 |
| 18 | **Pollution Incidents to Controlled Waters**<br>Property Type: Scrapyards<br>Location: Cudworth Dyke At, Carlton Marsh<br>Authority: Environment Agency, North East Region<br>Pollutant: Oils - Waste Oil<br>Note: No Fish Killed<br>Incident Date: 25th February 1997<br>Incident Reference: SH970177<br>Catchment Area: Dearne Tributaries<br>Receiving Water: Freshwater Stream/River<br>Cause of Incident: Not Given<br>Incident Severity: Category 3 - Minor Incident<br>Positional Accuracy: Located by supplier to within 100m | A13SE (SE) | 87 | 2 | 437750 410350 |
| 19 | **Pollution Incidents to Controlled Waters**<br>Property Type: Other General Premises<br>Location: Edderthorpe Lane/Rail Viadct Dearne 11<br>Authority: Environment Agency, North East Region<br>Pollutant: Rubbish<br>Note: Not Supplied<br>Incident Date: 21st January 1991<br>Incident Reference: 119058<br>Catchment Area: Not Given<br>Receiving Water: Freshwater Stream/River<br>Cause of Incident: Not Given<br>Incident Severity: Category 3 - Minor Incident<br>Positional Accuracy: Located by supplier to within 100m | A13SW (S) | 106 | 2 | 437600 410300 |
| 19 | **Pollution Incidents to Controlled Waters**<br>Property Type: Water Company Sewage: Pumping Station<br>Location: Shaw Dyke At, Carlton Nature Reserve<br>Authority: Environment Agency, North East Region<br>Pollutant: Sewage - Storm Overflow<br>Note: Pollution Found; No Fish Killed<br>Incident Date: 30th December 1996<br>Incident Reference: SH960505<br>Catchment Area: Dearne Tributaries<br>Receiving Water: Freshwater Stream/River<br>Cause of Incident: Unknown<br>Incident Severity: Category 3 - Minor Incident<br>Positional Accuracy: Located by supplier to within 100m | A13SW (S) | 111 | 2 | 437600 410295 |
| 20 | **Pollution Incidents to Controlled Waters**<br>Property Type: Landfill/Waste Disposal Site<br>Location: Edderthorpe Lane/Rail Viadct Dearne 11<br>Authority: Environment Agency, North East Region<br>Pollutant: Miscellaneous - No Visible Pollution/Nothing Found<br>Note: Not Supplied<br>Incident Date: 24th October 1993<br>Incident Reference: 148516<br>Catchment Area: Not Given<br>Receiving Water: No Pollution<br>Cause of Incident: Not Given<br>Incident Severity: Category 3 - Minor Incident<br>Positional Accuracy: Located by supplier to within 100m | A13SE (E) | 109 | 2 | 437800 410500 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
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| 21 | **Pollution Incidents to Controlled Waters**<br>Property Type: Fire Water<br>Location: Cudworth Dyke At, Boulder Bridge<br>Authority: Environment Agency, North East Region<br>Pollutant: Oils - Unknown<br>Note: Fish Killed: No Information<br>Incident Date: 9th October 1997<br>Incident Reference: SH970520<br>Catchment Area: Dearne Tributaries<br>Receiving Water: Freshwater Stream/River<br>Cause of Incident: Not Given<br>Incident Severity: Category 3 - Minor Incident<br>Positional Accuracy: Located by supplier to within 100m | A13SE (SE) | 116 | 2 | 437695 410305 |
| 21 | **Pollution Incidents to Controlled Waters**<br>Property Type: Scrapyards<br>Location: Boulder Bridge, CUDWORTH<br>Authority: Environment Agency, North East Region<br>Pollutant: Oils - Diesel (Including Agricultural)<br>Note: Pollution Found; No Fish Killed<br>Incident Date: 24th April 1996<br>Incident Reference: SH960238<br>Catchment Area: Dearne Tributaries<br>Receiving Water: Freshwater Stream/River<br>Cause of Incident: Unknown<br>Incident Severity: Category 3 - Minor Incident<br>Positional Accuracy: Located by supplier to within 100m | A13SE (SE) | 117 | 2 | 437700 410305 |
| 21 | **Pollution Incidents to Controlled Waters**<br>Property Type: Miscellaneous Premises: Unknown<br>Location: Edderthorpe Lane/Rail Viadct Dearne 11<br>Authority: Environment Agency, North East Region<br>Pollutant: Unknown Sewage<br>Note: Not Supplied<br>Incident Date: 3rd August 1990<br>Incident Reference: 113317<br>Catchment Area: Not Given<br>Receiving Water: Freshwater Stream/River<br>Cause of Incident: Not Given<br>Incident Severity: Category 2 - Significant Incident<br>Positional Accuracy: Located by supplier to within 100m | A13SE (SE) | 117 | 2 | 437705 410305 |
| 21 | **Pollution Incidents to Controlled Waters**<br>Property Type: Scrapyards<br>Location: Cudworth Dyke, Carlton Marsh Nature Reserve, CUDWORTH<br>Authority: Environment Agency, North East Region<br>Pollutant: Oils - Waste Oil<br>Note: No Fish Killed<br>Incident Date: 7th September 1995<br>Incident Reference: SH950029<br>Catchment Area: Dearne Tributaries<br>Receiving Water: Freshwater Stream/River<br>Cause of Incident: Not Given<br>Incident Severity: Category 3 - Minor Incident<br>Positional Accuracy: Located by supplier to within 100m | A13SE (SE) | 121 | 2 | 437695 410300 |
| 21 | **Pollution Incidents to Controlled Waters**<br>Property Type: Industrial Premises<br>Location: Edderthorpe Lane/Rail Viadct Dearne 11<br>Authority: Environment Agency, North East Region<br>Pollutant: Oils - Unknown<br>Note: Not Supplied<br>Incident Date: 1st July 1993<br>Incident Reference: 145790<br>Catchment Area: Not Given<br>Receiving Water: Freshwater Stream/River<br>Cause of Incident: Not Given<br>Incident Severity: Category 3 - Minor Incident<br>Positional Accuracy: Located by supplier to within 100m | A13SE (SE) | 122 | 2 | 437700 410300 |
| 21 | **Pollution Incidents to Controlled Waters**<br>Property Type: Industrial Premises<br>Location: Edderthorpe Lane/Rail Viadct Dearne 11<br>Authority: Environment Agency, North East Region<br>Pollutant: Oils - Unknown<br>Note: Not Supplied<br>Incident Date: 5th June 1989<br>Incident Reference: 100108<br>Catchment Area: Not Given<br>Receiving Water: Freshwater Stream/River<br>Cause of Incident: Not Given<br>Incident Severity: Category 3 - Minor Incident<br>Positional Accuracy: Located by supplier to within 100m | A13SE (SE) | 122 | 2 | 437705 410300 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| 21 | **Pollution Incidents to Controlled Waters**<br>Property Type: Scrapyards<br>Location: Boulder Bridge, CUDWORTH<br>Authority: Environment Agency, North East Region<br>Pollutant: Oils - Diesel (Including Agricultural)<br>Note: No Fish Killed<br>Incident Date: 24th April 1996<br>Incident Reference: SH960238<br>Catchment Area: Dearne Tributaries<br>Receiving Water: Freshwater Stream/River<br>Cause of Incident: Not Given<br>Incident Severity: Category 3 - Minor Incident<br>Positional Accuracy: Located by supplier to within 100m | A13SE (SE) | 126 | 2 | 437695 410295 |
| 21 | **Pollution Incidents to Controlled Waters**<br>Property Type: Industrial Premises<br>Location: Shaw Lane<br>Authority: Environment Agency, North East Region<br>Pollutant: Oils - Unknown<br>Note: Not Supplied<br>Incident Date: 23rd April 1989<br>Incident Reference: 6869<br>Catchment Area: Not Given<br>Receiving Water: Freshwater Stream/River<br>Cause of Incident: Not Given<br>Incident Severity: Category 2 - Significant Incident<br>Positional Accuracy: Located by supplier to within 100m | A13SE (SE) | 126 | 2 | 437700 410295 |
| 21 | **Pollution Incidents to Controlled Waters**<br>Property Type: Industrial Premises<br>Location: Edderthorpe Lane/Rail Viadct Dearne 11<br>Authority: Environment Agency, North East Region<br>Pollutant: Oils - Unknown<br>Note: Not Supplied<br>Incident Date: 2nd June 1989<br>Incident Reference: 100106<br>Catchment Area: Not Given<br>Receiving Water: Freshwater Stream/River<br>Cause of Incident: Not Given<br>Incident Severity: Category 3 - Minor Incident<br>Positional Accuracy: Located by supplier to within 100m | A13SE (SE) | 127 | 2 | 437705 410295 |
| 22 | **Pollution Incidents to Controlled Waters**<br>Property Type: Industrial Premises<br>Location: Edderthorpe Lane/Rail Viadct Dearne 11<br>Authority: Environment Agency, North East Region<br>Pollutant: Oils - Unknown<br>Note: Not Supplied<br>Incident Date: 7th July 1994<br>Incident Reference: 152945<br>Catchment Area: Not Given<br>Receiving Water: Freshwater Stream/River<br>Cause of Incident: Not Given<br>Incident Severity: Category 2 - Significant Incident<br>Positional Accuracy: Located by supplier to within 100m | A13SE (SE) | 157 | 2 | 437800 410300 |
| 22 | **Pollution Incidents to Controlled Waters**<br>Property Type: Scrapyards<br>Location: Boulder Bridge, BARNSLEY<br>Authority: Environment Agency, North East Region<br>Pollutant: Oils - Unknown<br>Note: Pollution Found; No Fish Killed<br>Incident Date: 9th March 1996<br>Incident Reference: SH960079<br>Catchment Area: Dearne Tributaries<br>Receiving Water: Freshwater Stream/River<br>Cause of Incident: Unknown<br>Incident Severity: Category 3 - Minor Incident<br>Positional Accuracy: Located by supplier to within 100m | A13SE (SE) | 161 | 2 | 437800 410295 |
| 22 | **Pollution Incidents to Controlled Waters**<br>Property Type: Scrapyards<br>Location: Boulder Bridge, BARNSLEY<br>Authority: Environment Agency, North East Region<br>Pollutant: Oils - Unknown<br>Note: No Fish Killed<br>Incident Date: 9th March 1996<br>Incident Reference: SH960079<br>Catchment Area: Dearne Tributaries<br>Receiving Water: Freshwater Stream/River<br>Cause of Incident: Not Given<br>Incident Severity: Category 3 - Minor Incident<br>Positional Accuracy: Located by supplier to within 100m | A13SE (SE) | 164 | 2 | 437805 410295 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| 22 | **Pollution Incidents to Controlled Waters**<br>Property Type: Scrapyards<br>Location: Shaw Dyke At, Carlton Marsh<br>Authority: Environment Agency, North East Region<br>Pollutant: Oils - Waste Oil<br>Note: Pollution Found; No Fish Killed<br>Incident Date: 18th November 1996<br>Incident Reference: SH960462<br>Catchment Area: Dearne Tributaries<br>Receiving Water: Freshwater Stream/River<br>Cause of Incident: Unknown<br>Incident Severity: Category 3 - Minor Incident<br>Positional Accuracy: Located by supplier to within 100m | A13SE (SE) | 199 | 2 | 437800 410250 |
| 23 | **Pollution Incidents to Controlled Waters**<br>Property Type: Water Company Sewage: Foul Sewer<br>Location: Edderthorpe Lane/Rail Viadct Dearne 11<br>Authority: Environment Agency, North East Region<br>Pollutant: Unknown Sewage<br>Note: Not Supplied<br>Incident Date: 4th August 1990<br>Incident Reference: 113434<br>Catchment Area: Not Given<br>Receiving Water: Freshwater Stream/River<br>Cause of Incident: Not Given<br>Incident Severity: Category 2 - Significant Incident<br>Positional Accuracy: Located by supplier to within 100m | A13SE (S) | 220 | 2 | 437700 410200 |
| 23 | **Pollution Incidents to Controlled Waters**<br>Property Type: Food industry<br>Location: Cudworth Dyke<br>Authority: Environment Agency, North East Region<br>Pollutant: Chemicals - Other Organic<br>Note: Pollution Found; Fish Killed: No Information<br>Incident Date: 21st September 1996<br>Incident Reference: SH960397<br>Catchment Area: Dearne Tributaries<br>Receiving Water: Freshwater Stream/River<br>Cause of Incident: Unknown<br>Incident Severity: Category 2 - Significant Incident<br>Positional Accuracy: Located by supplier to within 100m | A13SE (S) | 225 | 2 | 437700 410195 |
| 23 | **Pollution Incidents to Controlled Waters**<br>Property Type: Other General Premises<br>Location: Shaw Dyke, Carlton Marsh Nature Reserve, BARNSLEY<br>Authority: Environment Agency, North East Region<br>Pollutant: Surcharged Sewage<br>Note: No Fish Killed<br>Incident Date: 3rd September 1995<br>Incident Reference: SH950034<br>Catchment Area: Dearne Tributaries<br>Receiving Water: Freshwater Stream/River<br>Cause of Incident: Not Given<br>Incident Severity: Category 2 - Significant Incident<br>Positional Accuracy: Located by supplier to within 100m | A13SE (S) | 226 | 2 | 437705 410195 |
| 24 | **Pollution Incidents to Controlled Waters**<br>Property Type: Miscellaneous Premises: Unknown<br>Location: Edderthorpe Lane/Rail Viadct Dearne 11<br>Authority: Environment Agency, North East Region<br>Pollutant: Unknown Sewage<br>Note: Not Supplied<br>Incident Date: 28th June 1994<br>Incident Reference: 152366<br>Catchment Area: Not Given<br>Receiving Water: Freshwater Stream/River<br>Cause of Incident: Not Given<br>Incident Severity: Category 3 - Minor Incident<br>Positional Accuracy: Located by supplier to within 100m | A13SE (SE) | 233 | 2 | 437900 410300 |
| 25 | **Pollution Incidents to Controlled Waters**<br>Property Type: Industrial Premises<br>Location: Edderthorpe Lane/Rail Viadct Dearne 11<br>Authority: Environment Agency, North East Region<br>Pollutant: Unknown<br>Note: Not Supplied<br>Incident Date: 14th July 1992<br>Incident Reference: 135320<br>Catchment Area: Not Given<br>Receiving Water: Freshwater Stream/River<br>Cause of Incident: Not Given<br>Incident Severity: Category 3 - Minor Incident<br>Positional Accuracy: Located by supplier to within 100m | A13SE (SE) | 241 | 2 | 437805 410205 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
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| 25 | **Pollution Incidents to Controlled Waters**<br>Property Type: Water Company Sewage: Foul Sewer<br>Location: Edderthorpe Lane/Rail Viadct Dearne 11<br>Authority: Environment Agency, North East Region<br>Pollutant: Crude Sewage<br>Note: Not Supplied<br>Incident Date: 1st July 1994<br>Incident Reference: 152456<br>Catchment Area: Not Given<br>Receiving Water: Freshwater Stream/River<br>Cause of Incident: Not Given<br>Incident Severity: Category 3 - Minor Incident<br>Positional Accuracy: Located by supplier to within 100m | A13SE (SE) | 244 | 2 | 437800 410200 |
| 25 | **Pollution Incidents to Controlled Waters**<br>Property Type: Surface Water Sewers<br>Location: Edderthorpe Lane/Rail Viadct Dearne 11<br>Authority: Environment Agency, North East Region<br>Pollutant: Unknown<br>Note: Not Supplied<br>Incident Date: 20th September 1991<br>Incident Reference: 126719<br>Catchment Area: Not Given<br>Receiving Water: Freshwater Stream/River<br>Cause of Incident: Not Given<br>Incident Severity: Category 2 - Significant Incident<br>Positional Accuracy: Located by supplier to within 100m | A13SE (SE) | 246 | 2 | 437805 410200 |
| 25 | **Pollution Incidents to Controlled Waters**<br>Property Type: Construction/Demolition<br>Location: Edderthorpe Lane/Rail Viadct Dearne 11<br>Authority: Environment Agency, North East Region<br>Pollutant: Oils - Transformer<br>Note: Not Supplied<br>Incident Date: 25th June 1993<br>Incident Reference: 145521<br>Catchment Area: Not Given<br>Receiving Water: Freshwater Stream/River<br>Cause of Incident: Not Given<br>Incident Severity: Category 3 - Minor Incident<br>Positional Accuracy: Located by supplier to within 100m | A13SE (SE) | 248 | 2 | 437800 410195 |
| 25 | **Pollution Incidents to Controlled Waters**<br>Property Type: Not Given<br>Location: Shaw Lane Sws<br>Authority: Environment Agency, North East Region<br>Pollutant: Oils - Petrol<br>Note: Pollution Found; Fish Killed: No Information<br>Incident Date: 8th January 1996<br>Incident Reference: SH960019<br>Catchment Area: Dearne Tributaries<br>Receiving Water: Freshwater Stream/River<br>Cause of Incident: Unknown<br>Incident Severity: Category 3 - Minor Incident<br>Positional Accuracy: Located by supplier to within 100m | A13SE (SE) | 250 | 2 | 437760 410180 |
| 25 | **Pollution Incidents to Controlled Waters**<br>Property Type: Surface Water Sewers<br>Location: Edderthorpe Lane/Rail Viadct Dearne 11<br>Authority: Environment Agency, North East Region<br>Pollutant: Surface Water<br>Note: Not Supplied<br>Incident Date: 23rd August 1990<br>Incident Reference: 113946<br>Catchment Area: Not Given<br>Receiving Water: Freshwater Stream/River<br>Cause of Incident: Not Given<br>Incident Severity: Category 2 - Significant Incident<br>Positional Accuracy: Located by supplier to within 100m | A13SE (SE) | 250 | 2 | 437805 410195 |
| 25 | **Pollution Incidents to Controlled Waters**<br>Property Type: Other General Premises<br>Location: Shaw Lane Sws<br>Authority: Environment Agency, North East Region<br>Pollutant: Oils - Petrol<br>Note: Fish Killed: No Information<br>Incident Date: 8th January 1996<br>Incident Reference: SH960019<br>Catchment Area: Dearne Tributaries<br>Receiving Water: Freshwater Stream/River<br>Cause of Incident: Not Given<br>Incident Severity: Category 3 - Minor Incident<br>Positional Accuracy: Located by supplier to within 100m | A13SE (SE) | 255 | 2 | 437760 410175 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
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| 26 | **Pollution Incidents to Controlled Waters**<br>Property Type: Water Company Sewage: Storm Overflow<br>Location: Cudworth Dyke<br>Authority: Environment Agency, North East Region<br>Pollutant: Sewage - Storm Overflow<br>Note: No Fish Killed<br>Incident Date: 3rd August 1997<br>Incident Reference: SH970427<br>Catchment Area: Dearne Tributaries<br>Receiving Water: Freshwater Stream/River<br>Cause of Incident: Not Given<br>Incident Severity: Category 2 - Significant Incident<br>Positional Accuracy: Located by supplier to within 100m | A18SW (N) | 290 | 2 | 437600 410900 |
| 27 | **Pollution Incidents to Controlled Waters**<br>Property Type: Scrapyards<br>Location: Shaw Dyke At, Carlton Nature Reserve<br>Authority: Environment Agency, North East Region<br>Pollutant: Oils - Waste Oil<br>Note: Pollution Found; No Fish Killed<br>Incident Date: 19th October 1996<br>Incident Reference: SH960447<br>Catchment Area: Dearne Tributaries<br>Receiving Water: Freshwater Stream/River<br>Cause of Incident: Unknown<br>Incident Severity: Category 3 - Minor Incident<br>Positional Accuracy: Located by supplier to within 100m | A8NE (SE) | 290 | 2 | 437800 410150 |
| 27 | **Pollution Incidents to Controlled Waters**<br>Property Type: Surface Water Sewers<br>Location: Hollingwd-Barrow Hill/Mea St Rother 15<br>Authority: Environment Agency, North East Region<br>Pollutant: Oils - Unknown<br>Note: Not Supplied<br>Incident Date: 13th November 1994<br>Incident Reference: 153545<br>Catchment Area: Not Given<br>Receiving Water: Freshwater Stream/River<br>Cause of Incident: Not Given<br>Incident Severity: Category 3 - Minor Incident<br>Positional Accuracy: Located by supplier to within 100m | A8NE (SE) | 338 | 2 | 437800 410100 |
| 27 | **Pollution Incidents to Controlled Waters**<br>Property Type: Water Company Sewage: Pumping Station<br>Location: Shaw Lane, CARLTON<br>Authority: Environment Agency, North East Region<br>Pollutant: Crude Sewage<br>Note: No Fish Killed<br>Incident Date: 24th April 1996<br>Incident Reference: SH960293<br>Catchment Area: Dearne Tributaries<br>Receiving Water: Freshwater Stream/River<br>Cause of Incident: Not Given<br>Incident Severity: Category 3 - Minor Incident<br>Positional Accuracy: Located by supplier to within 100m | A8NE (SE) | 339 | 2 | 437805 410100 |
| 27 | **Pollution Incidents to Controlled Waters**<br>Property Type: Water Company Sewage: Pumping Station<br>Location: Shaw Lane, CARLTON<br>Authority: Environment Agency, North East Region<br>Pollutant: Crude Sewage<br>Note: Pollution Found; No Fish Killed<br>Incident Date: 24th April 1996<br>Incident Reference: SH960293<br>Catchment Area: Dearne Tributaries<br>Receiving Water: Freshwater Stream/River<br>Cause of Incident: Unknown<br>Incident Severity: Category 3 - Minor Incident<br>Positional Accuracy: Located by supplier to within 100m | A8NE (SE) | 342 | 2 | 437800 410095 |
| 27 | **Pollution Incidents to Controlled Waters**<br>Property Type: Water Company Sewage: Surface Water Outfall<br>Location: Cudworth Dyke, Carlton Marsh<br>Authority: Environment Agency, North East Region<br>Pollutant: Miscellaneous - Inert Suspended Solids<br>Note: Pollution Found; No Fish Killed<br>Incident Date: 1st June 1996<br>Incident Reference: SH960240<br>Catchment Area: Dearne Tributaries<br>Receiving Water: Freshwater Stream/River<br>Cause of Incident: Unknown<br>Incident Severity: Category 3 - Minor Incident<br>Positional Accuracy: Located by supplier to within 100m | A8NE (SE) | 355 | 2 | 437850 410100 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
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| 28 | **Pollution Incidents to Controlled Waters**<br>Property Type: Water Company Sewage: Foul Sewer<br>Location: Edderthorpe Lane/Rail Viadct Dearne 11<br>Authority: Environment Agency, North East Region<br>Pollutant: Unknown Sewage<br>Note: Not Supplied<br>Incident Date: 25th January 1992<br>Incident Reference: 130007<br>Catchment Area: Not Given<br>Receiving Water: Freshwater Stream/River<br>Cause of Incident: Not Given<br>Incident Severity: Category 2 - Significant Incident<br>Positional Accuracy: Located by supplier to within 100m | A13SE (SE) | 298 | 2 | 437900 410200 |
| 28 | **Pollution Incidents to Controlled Waters**<br>Property Type: Scrapyards<br>Location: Shaw Dyke Near, Carlton Marsh Nature Reserve<br>Authority: Environment Agency, North East Region<br>Pollutant: Oils - Waste Oil<br>Note: Pollution Found; No Fish Killed<br>Incident Date: 18th October 1996<br>Incident Reference: SH960440<br>Catchment Area: Dearne Tributaries<br>Receiving Water: Freshwater Stream/River<br>Cause of Incident: Unknown<br>Incident Severity: Category 3 - Minor Incident<br>Positional Accuracy: Located by supplier to within 100m | A13SE (SE) | 302 | 2 | 437900 410195 |
| 29 | **Pollution Incidents to Controlled Waters**<br>Property Type: Water Company Sewage: Surface Water Outfall<br>Location: Cudworth Dyke, Carlton Marsh<br>Authority: Environment Agency, North East Region<br>Pollutant: Miscellaneous - Inert Suspended Solids<br>Note: No Fish Killed<br>Incident Date: 1st June 1996<br>Incident Reference: SH960240<br>Catchment Area: Dearne Tributaries<br>Receiving Water: Freshwater Stream/River<br>Cause of Incident: Not Given<br>Incident Severity: Category 3 - Minor Incident<br>Positional Accuracy: Located by supplier to within 100m | A8NE (SE) | 360 | 2 | 437850 410095 |
| 30 | **Pollution Incidents to Controlled Waters**<br>Property Type: Surface Water Sewers<br>Location: Edderthorpe Lane/Rail Viadct Dearne 11<br>Authority: Environment Agency, North East Region<br>Pollutant: Milk/Creamery Wastes<br>Note: Not Supplied<br>Incident Date: 20th September 1991<br>Incident Reference: 128606<br>Catchment Area: Not Given<br>Receiving Water: Freshwater Stream/River<br>Cause of Incident: Not Given<br>Incident Severity: Category 2 - Significant Incident<br>Positional Accuracy: Located by supplier to within 100m | A8NE (SE) | 379 | 2 | 437900 410100 |
| 30 | **Pollution Incidents to Controlled Waters**<br>Property Type: Food industry<br>Location: Cudworth Dyke At, Carlton Marsh Nature Reserve<br>Authority: Environment Agency, North East Region<br>Pollutant: Other Sewage<br>Note: Pollution Found; No Fish Killed<br>Incident Date: 24th October 1996<br>Incident Reference: SH960471<br>Catchment Area: Dearne Tributaries<br>Receiving Water: Freshwater Stream/River<br>Cause of Incident: Unknown<br>Incident Severity: Category 2 - Significant Incident<br>Positional Accuracy: Located by supplier to within 100m | A8NE (SE) | 383 | 2 | 437900 410095 |
| 30 | **Pollution Incidents to Controlled Waters**<br>Property Type: Scrapyards<br>Location: Shaw Dyke, Carlton Marsh Nature Reserve<br>Authority: Environment Agency, North East Region<br>Pollutant: Oils - Other Oil<br>Note: Fish Killed: No Information<br>Incident Date: 2nd March 1995<br>Incident Reference: SH950228<br>Catchment Area: Dearne<br>Receiving Water: Freshwater Stream/River<br>Cause of Incident: Not Given<br>Incident Severity: Category 3 - Minor Incident<br>Positional Accuracy: Located by supplier to within 100m | A8NE (SE) | 386 | 2 | 437905 410095 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| 31 | **Pollution Incidents to Controlled Waters**<br>Property Type: Water Company Sewage: Pumping Station<br>Location: Cudworth Dyke At, Carlton Marsh<br>Authority: Environment Agency, North East Region<br>Pollutant: Surcharged Sewage<br>Note: Pollution Found; No Fish Killed<br>Incident Date: 27th June 1996<br>Incident Reference: SH960430<br>Catchment Area: Dearne Tributaries<br>Receiving Water: Freshwater Stream/River<br>Cause of Incident: Unknown<br>Incident Severity: Category 2 - Significant Incident<br>Positional Accuracy: Located by supplier to within 100m | A8NW (S) | 401 | 2 | 437501 410001 |
| 32 | **Pollution Incidents to Controlled Waters**<br>Property Type: Scrapyards<br>Location: Cudworth Dyke At, Carlton Marsh<br>Authority: Environment Agency, North East Region<br>Pollutant: Oils - Black Fuel Oil<br>Note: Fish Killed: No Information<br>Incident Date: 25th July 1997<br>Incident Reference: SH970366<br>Catchment Area: Dearne Tributaries<br>Receiving Water: Freshwater Stream/River<br>Cause of Incident: Not Given<br>Incident Severity: Category 3 - Minor Incident<br>Positional Accuracy: Located by supplier to within 100m | A8NE (S) | 434 | 2 | 437801 410001 |
| 33 | **Pollution Incidents to Controlled Waters**<br>Property Type: Scrapyards<br>Location: Cudworth Dyke At, Carlton Marsh<br>Authority: Environment Agency, North East Region<br>Pollutant: Oils - Unknown<br>Note: No Fish Killed<br>Incident Date: 8th January 1995<br>Incident Reference: SH950104<br>Catchment Area: Dearne<br>Receiving Water: Freshwater Stream/River<br>Cause of Incident: Not Given<br>Incident Severity: Category 3 - Minor Incident<br>Positional Accuracy: Located by supplier to within 100m | A8NE (SE) | 467 | 2 | 437901 410001 |
| 34 | **Pollution Incidents to Controlled Waters**<br>Property Type: Other General Premises<br>Location: Royston Canal At, BARNSLEY<br>Authority: Environment Agency, North East Region<br>Pollutant: Algae<br>Note: Biology Affected; Fisheries Affected; No Fish Killed<br>Incident Date: 28th August 1997<br>Incident Reference: SH970456<br>Catchment Area: Dearne Tributaries<br>Receiving Water: Canal<br>Cause of Incident: Not Given<br>Incident Severity: Category 3 - Minor Incident<br>Positional Accuracy: Located by supplier to within 100m | A12NE (W) | 504 | 2 | 437000 410600 |
| 35 | **Pollution Incidents to Controlled Waters**<br>Property Type: Fire Water<br>Location: Royston Canal, Cronkhill Lane, CARLTON<br>Authority: Environment Agency, North East Region<br>Pollutant: Not Given<br>Note: Biology Affected; Fisheries Affected; 11-200 Fish Killed<br>Incident Date: 23rd August 1997<br>Incident Reference: SH970447<br>Catchment Area: Dearne Tributaries<br>Receiving Water: Canal<br>Cause of Incident: Not Given<br>Incident Severity: Category 2 - Significant Incident<br>Positional Accuracy: Located by supplier to within 100m | A12NE (W) | 520 | 2 | 437000 410700 |
| 36 | **Pollution Incidents to Controlled Waters**<br>Property Type: Miscellaneous Premises: Unknown<br>Location: Edderthorpe Lane/Rail Viadct Dearne 11<br>Authority: Environment Agency, North East Region<br>Pollutant: Oils - Unknown<br>Note: Not Supplied<br>Incident Date: 29th June 1990<br>Incident Reference: 112202<br>Catchment Area: Not Given<br>Receiving Water: Freshwater Stream/River<br>Cause of Incident: Not Given<br>Incident Severity: Category 2 - Significant Incident<br>Positional Accuracy: Located by supplier to within 100m | A7NE (SW) | 530 | 2 | 437201 410001 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| 37 | **Pollution Incidents to Controlled Waters**<br>Property Type: Scrapyards<br>Location: Cudworth Dyke At, Carlton Marsh Reserve<br>Authority: Environment Agency, North East Region<br>Pollutant: Oils - Black Fuel Oil<br>Note: Pollution Found; No Fish Killed<br>Incident Date: 29th September 1996<br>Incident Reference: SH960468<br>Catchment Area: Dearne Tributaries<br>Receiving Water: Freshwater Stream/River<br>Cause of Incident: Unknown<br>Incident Severity: Category 3 - Minor Incident<br>Positional Accuracy: Located by supplier to within 100m | A9NW (SE) | 593 | 2 | 438200 410100 |
| 37 | **Pollution Incidents to Controlled Waters**<br>Property Type: Scrapyards<br>Location: Carlton Marsh Nature Reserve<br>Authority: Environment Agency, North East Region<br>Pollutant: Oils - Diesel (Including Agricultural)<br>Note: Pollution Found; No Fish Killed<br>Incident Date: 6th November 1996<br>Incident Reference: SH960476<br>Catchment Area: Dearne Tributaries<br>Receiving Water: Freshwater Stream/River<br>Cause of Incident: Unknown<br>Incident Severity: Category 3 - Minor Incident<br>Positional Accuracy: Located by supplier to within 100m | A9NW (SE) | 596 | 2 | 438200 410095 |
| 38 | **Pollution Incidents to Controlled Waters**<br>Property Type: Water Company Sewage: Foul Sewer<br>Location: Edderthorpe Lane/Rail Viadct Dearne 11<br>Authority: Environment Agency, North East Region<br>Pollutant: Unknown Sewage<br>Note: Not Supplied<br>Incident Date: 5th June 1994<br>Incident Reference: 152175<br>Catchment Area: Not Given<br>Receiving Water: Freshwater Stream/River<br>Cause of Incident: Not Given<br>Incident Severity: Category 3 - Minor Incident<br>Positional Accuracy: Located by supplier to within 100m | A18NE (N) | 685 | 2 | 437700 411295 |
| 39 | **Pollution Incidents to Controlled Waters**<br>Property Type: Water Company Sewage: Storm Overflow<br>Location: Cudworth Dyke At, Boulder Bridge<br>Authority: Environment Agency, North East Region<br>Pollutant: Surcharged Sewage<br>Note: No Fish Killed<br>Incident Date: 3rd August 1997<br>Incident Reference: SH970433<br>Catchment Area: Dearne Tributaries<br>Receiving Water: Freshwater Stream/River<br>Cause of Incident: Not Given<br>Incident Severity: Category 2 - Significant Incident<br>Positional Accuracy: Located by supplier to within 100m | A17SW (NW) | 805 | 2 | 436900 411100 |
| 40 | **Pollution Incidents to Controlled Waters**<br>Property Type: Other General Premises<br>Location: Barnsley Canal At Royston<br>Authority: Environment Agency, North East Region<br>Pollutant: Low Dissolved Oxygen<br>Note: No Fish Killed<br>Incident Date: 10th January 1995<br>Incident Reference: SH950107<br>Catchment Area: Dearne<br>Receiving Water: Freshwater Stream/River<br>Cause of Incident: Not Given<br>Incident Severity: Category 3 - Minor Incident<br>Positional Accuracy: Located by supplier to within 100m | A17NE (NW) | 808 | 2 | 437000 411200 |
| 41 | **Pollution Incidents to Controlled Waters**<br>Property Type: Miscellaneous Premises: Unknown<br>Location: Edderthorpe Lane/Rail Viadct Dearne 11<br>Authority: Environment Agency, North East Region<br>Pollutant: Unknown<br>Note: Not Supplied<br>Incident Date: 21st August 1991<br>Incident Reference: 126167<br>Catchment Area: Not Given<br>Receiving Water: Freshwater Stream/River<br>Cause of Incident: Not Given<br>Incident Severity: Category 3 - Minor Incident<br>Positional Accuracy: Located by supplier to within 100m | A9SW (S) | 970 | 2 | 438000 409500 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| 42 | **Prosecutions Relating to Authorised Processes**<br>Location: Land At Boulder Bridge Lane, Barnsley<br>Prosecution Text: Breaching the held environmental permit by repeatedly burning waste<br>Prosecution Act: Epr07<br>Hearing Date: 4th January 2012<br>Verdict: Guilty<br>Fine: 25200<br>Costs: 15076<br>Positional Accuracy: Manually positioned to the road within the address or location | A13NE (NE) | 8 | 2 | 437674 410570 |
| 43 | **Prosecutions Relating to Authorised Processes**<br>Location: Boulder Bridge Lane, Carlton, Barnsley<br>Prosecution Text: Burning waste contrary to the held waste permit<br>Prosecution Act: Epa90 S33(6)<br>Hearing Date: 13th April 2006<br>Verdict: Guilty<br>Fine: 4000<br>Costs: 875<br>Positional Accuracy: Manually positioned to the road within the address or location | A13SE (SE) | 10 | 2 | 437705 410414 |
| | **River Quality**<br>Name: Cudworth_Dyke<br>GQA Grade: River Quality E<br>Reach: Pools_Dyke_Barnsley_Canal_(Dis<br>Estimated Distance (km): 2.7<br>Flow Rate: Flow less than 0.31 cumecs<br>Flow Type: River<br>Year: 2000 | A13NE (E) | 67 | 2 | 437766 410514 |
| | **River Quality**<br>Name: Barnsley_Canal_(Disused)<br>GQA Grade: Not Supplied<br>Reach: Split_Cudworth_Dyk<br>Estimated Distance (km): 3.1<br>Flow Rate: Flow less than 0.31 cumecs<br>Flow Type: River<br>Year: 2000 | A13SE (S) | 162 | 2 | 437608 410237 |
| | **River Quality**<br>Name: Cudworth_Dyke<br>GQA Grade: River Quality E<br>Reach: Barnsley_Canal_(Disu_River_Dearn<br>Estimated Distance (km): 2.6<br>Flow Rate: Flow less than 0.31 cumecs<br>Flow Type: River<br>Year: 2000 | A13SE (SE) | 203 | 2 | 437788 410239 |
| | **River Quality**<br>Name: Cudworth_Dyke<br>GQA Grade: River Quality E<br>Reach: South_Hiendley_Pools_Dyk<br>Estimated Distance (km): 2.7<br>Flow Rate: Flow less than 0.31 cumecs<br>Flow Type: River<br>Year: 2000 | A18NE (N) | 710 | 2 | 437700 411320 |
| 44 | **Substantiated Pollution Incident Register**<br>Authority: Environment Agency - North East Region, Yorkshire Area<br>Incident Date: 20th February 2002<br>Incident Reference: 59523<br>Water Impact: Category 4 - No Impact<br>Air Impact: Category 2 - Significant Incident<br>Land Impact: Category 4 - No Impact<br>Positional Accuracy: Located by supplier to within 10m<br>Pollutant: Other Pollutant | A13NE (NE) | 28 | 2 | 437690 410585 |
| 45 | **Substantiated Pollution Incident Register**<br>Authority: Environment Agency - North East Region, Yorkshire Area<br>Incident Date: 15th November 2002<br>Incident Reference: 120977<br>Water Impact: Category 3 - Minor Incident<br>Air Impact: Category 2 - Significant Incident<br>Land Impact: Category 3 - Minor Incident<br>Positional Accuracy: Located by supplier to within 10m<br>Pollutant: Specific Waste Materials: Other Non-Metal Wastes | A13NE (N) | 55 | 2 | 437636 410667 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| 46 | **Substantiated Pollution Incident Register**<br>Authority: Environment Agency - North East Region, Yorkshire Area<br>Incident Date: 20th May 2004<br>Incident Reference: 239091<br>Water Impact: Category 4 - No Impact<br>Air Impact: Category 2 - Significant Incident<br>Land Impact: Category 4 - No Impact<br>Positional Accuracy: Located by supplier to within 10m<br>Pollutant: Atmospheric Pollutants And Effects: Smoke | A13NE (N) | 81 | 2 | 437661 410691 |
| 46 | **Substantiated Pollution Incident Register**<br>Authority: Environment Agency - North East Region, Yorkshire Area<br>Incident Date: 8th November 2002<br>Incident Reference: 119716<br>Water Impact: Category 3 - Minor Incident<br>Air Impact: Category 2 - Significant Incident<br>Land Impact: Category 3 - Minor Incident<br>Positional Accuracy: Located by supplier to within 10m<br>Pollutant: Specific Waste Materials: Other Non-Metal Wastes | A13NE (N) | 107 | 2 | 437622 410718 |
| 46 | **Substantiated Pollution Incident Register**<br>Authority: Environment Agency - North East Region, Yorkshire Area<br>Incident Date: 6th November 2002<br>Incident Reference: 119074<br>Water Impact: Category 3 - Minor Incident<br>Air Impact: Category 2 - Significant Incident<br>Land Impact: Category 3 - Minor Incident<br>Positional Accuracy: Located by supplier to within 10m<br>Pollutant: Specific Waste Materials: Other Non-Metal Wastes | A13NE (N) | 109 | 2 | 437621 410720 |
| 47 | **Substantiated Pollution Incident Register**<br>Authority: Environment Agency - North East Region, Yorkshire Area<br>Incident Date: 8th September 2006<br>Incident Reference: 433600<br>Water Impact: Category 2 - Significant Incident<br>Air Impact: Category 4 - No Impact<br>Land Impact: Category 4 - No Impact<br>Positional Accuracy: Located by supplier to within 10m<br>Pollutant: General Biodegradable Materials And Wastes: Food And Drink | A13SE (SE) | 223 | 2 | 437786 410216 |
| 47 | **Substantiated Pollution Incident Register**<br>Authority: Environment Agency - North East Region, Yorkshire Area<br>Incident Date: 16th March 2011<br>Incident Reference: 866408<br>Water Impact: Category 2 - Significant Incident<br>Air Impact: Category 4 - No Impact<br>Land Impact: Category 4 - No Impact<br>Positional Accuracy: Located by supplier to within 10m<br>Pollutant: Crude Sewage | A13SE (SE) | 252 | 2 | 437797 410190 |
| 47 | **Substantiated Pollution Incident Register**<br>Authority: Environment Agency - North East Region, Yorkshire Area<br>Incident Date: 29th April 2009<br>Incident Reference: 674859<br>Water Impact: Category 2 - Significant Incident<br>Air Impact: Category 4 - No Impact<br>Land Impact: Category 4 - No Impact<br>Positional Accuracy: Located by supplier to within 10m<br>Pollutant: Organic Chemicals/Products: Hydrocarbons | A13SE (SE) | 268 | 2 | 437808 410177 |
| 48 | **Substantiated Pollution Incident Register**<br>Authority: Environment Agency - North East Region, Yorkshire Area<br>Incident Date: 14th June 2009<br>Incident Reference: 687675<br>Water Impact: Category 2 - Significant Incident<br>Air Impact: Category 4 - No Impact<br>Land Impact: Category 3 - Minor Incident<br>Positional Accuracy: Located by supplier to within 10m<br>Pollutant: Oils And Fuel: Mixed/Waste Oils | A13SE (SE) | 281 | 2 | 437915 410240 |
| 49 | **Substantiated Pollution Incident Register**<br>Authority: Environment Agency - North East Region, Yorkshire Area<br>Incident Date: 12th July 2004<br>Incident Reference: 250370<br>Water Impact: Category 1 - Major Incident<br>Air Impact: Category 4 - No Impact<br>Land Impact: Category 4 - No Impact<br>Positional Accuracy: Located by supplier to within 10m<br>Pollutant: Crude Sewage | A8NW (S) | 281 | 2 | 437489 410125 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| 50 | **Substantiated Pollution Incident Register**<br>Authority: Environment Agency - North East Region, Yorkshire Area<br>Incident Date: 2nd June 2007<br>Incident Reference: 499653<br>Water Impact: Category 4 - No Impact<br>Air Impact: Category 3 - Minor Incident<br>Land Impact: Category 2 - Significant Incident<br>Positional Accuracy: Located by supplier to within 10m<br>Pollutant: Specific Waste Materials: Commercial Waste | A12SE (W) | 334 | 2 | 437206 410395 |
| 51 | **Substantiated Pollution Incident Register**<br>Authority: Environment Agency - North East Region, Yorkshire Area<br>Incident Date: 28th February 2005<br>Incident Reference: 295856<br>Water Impact: Category 4 - No Impact<br>Air Impact: Category 4 - No Impact<br>Land Impact: Category 2 - Significant Incident<br>Positional Accuracy: Located by supplier to within 10m<br>Pollutant: Oils And Fuel: Mixed/Waste Oils<br>Pollutant: Specific Waste Materials: Batteries<br>Pollutant: Specific Waste Materials: Vehicles And Vehicle Parts | A8NE (S) | 351 | 2 | 437750 410075 |
| 52 | **Substantiated Pollution Incident Register**<br>Authority: Environment Agency - North East Region, Yorkshire Area<br>Incident Date: 10th May 2005<br>Incident Reference: 311149<br>Water Impact: Category 4 - No Impact<br>Air Impact: Category 2 - Significant Incident<br>Land Impact: Category 2 - Significant Incident<br>Positional Accuracy: Located by supplier to within 10m<br>Pollutant: Atmospheric Pollutants And Effects: Smoke<br>Pollutant: Specific Waste Materials: Tyres | A18SE (N) | 352 | 2 | 437770 410940 |
| 53 | **Substantiated Pollution Incident Register**<br>Authority: Environment Agency - North East Region, Yorkshire Area<br>Incident Date: 13th December 2015<br>Incident Reference: 1394320<br>Water Impact: Category 2 - Significant Incident<br>Air Impact: Category 4 - No Impact<br>Land Impact: Category 4 - No Impact<br>Positional Accuracy: Located by supplier to within 10m<br>Pollutant: Agricultural Materials And Wastes: Other Agricultural Material Or Waste | A9NW (SE) | 460 | 2 | 438030 410100 |
| 54 | **Substantiated Pollution Incident Register**<br>Authority: Environment Agency - North East Region, Yorkshire Area<br>Incident Date: 26th November 2004<br>Incident Reference: 279878<br>Water Impact: Category 4 - No Impact<br>Air Impact: Category 4 - No Impact<br>Land Impact: Category 2 - Significant Incident<br>Positional Accuracy: Located by supplier to within 10m<br>Pollutant: Asbestos Waste | A12NE (W) | 538 | 2 | 436967 410613 |
| 55 | **Substantiated Pollution Incident Register**<br>Authority: Environment Agency - North East Region, Yorkshire Area<br>Incident Date: 18th August 2005<br>Incident Reference: 339263<br>Water Impact: Category 4 - No Impact<br>Air Impact: Category 3 - Minor Incident<br>Land Impact: Category 2 - Significant Incident<br>Positional Accuracy: Located by supplier to within 10m<br>Pollutant: Atmospheric Pollutants And Effects: Smoke<br>Pollutant: General Biodegradable : Other | A8SW (S) | 630 | 2 | 437464 409775 |
| 55 | **Substantiated Pollution Incident Register**<br>Authority: Environment Agency - North East Region, Yorkshire Area<br>Incident Date: 3rd August 2005<br>Incident Reference: 344135<br>Water Impact: Category 4 - No Impact<br>Air Impact: Category 2 - Significant Incident<br>Land Impact: Category 3 - Minor Incident<br>Positional Accuracy: Located by supplier to within 10m<br>Pollutant: General Biodegradable : Other | A8SW (S) | 669 | 2 | 437472 409735 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| 56 | **Water Abstractions**<br>Operator: Burnett & Hallamshire Fuel Limited<br>Licence Number: 2/27/08/100<br>Permit Version: Not Supplied<br>Location: Location Description Not Available<br>Authority: Environment Agency, North East Region<br>Abstraction: General Industrial<br>Abstraction Type: Not Supplied<br>Source: Surface<br>Daily Rate (m3): 140<br>Yearly Rate (m3): 35280<br>Details: Licence Revoked<br>Authorised Start: Not Supplied<br>Authorised End: Not Supplied<br>Permit Start Date: Not Supplied<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 100m | A18SE (N) | 250 | 2 | 437680 410860 |
| 57 | **Water Abstractions**<br>Operator: Monckton Coke & Chemical Company Limited<br>Licence Number: 2/27/08/069<br>Permit Version: Not Supplied<br>Location: Location Description Not Available<br>Authority: Environment Agency, North East Region<br>Abstraction: General Industrial<br>Abstraction Type: Not Supplied<br>Source: Surface<br>Daily Rate (m3): 277<br>Yearly Rate (m3): 83192<br>Details: Licence Revoked<br>Authorised Start: Not Supplied<br>Authorised End: Not Supplied<br>Permit Start Date: Not Supplied<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 100m | A18NE (N) | 749 | 2 | 437770 411350 |
| | **Water Abstractions**<br>Operator: Northern Strip Mining Limited<br>Licence Number: 2/27/08/094<br>Permit Version: Not Supplied<br>Location: Location Description Not Available<br>Authority: Environment Agency, North East Region<br>Abstraction: General Industrial<br>Abstraction Type: Not Supplied<br>Source: Surface<br>Daily Rate (m3): 114<br>Yearly Rate (m3): 32000<br>Details: Licence Lapsed<br>Authorised Start: Not Supplied<br>Authorised End: Not Supplied<br>Permit Start Date: Not Supplied<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 100m | (S) | 1634 | 2 | 437900 408800 |
| | **Water Abstractions**<br>Operator: Northern Strip Mining Limited<br>Licence Number: 2/27/08/096<br>Permit Version: Not Supplied<br>Location: Location Description Not Available<br>Authority: Environment Agency, North East Region<br>Abstraction: General Industrial<br>Abstraction Type: Not Supplied<br>Source: Surface<br>Daily Rate (m3): 114<br>Yearly Rate (m3): 32000<br>Details: Licence Revoked<br>Authorised Start: Not Supplied<br>Authorised End: Not Supplied<br>Permit Start Date: Not Supplied<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 100m | (S) | 1639 | 2 | 437900 408795 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| | **Water Abstractions**<br>Operator: Monkton Coke & Chemical Company Limited<br>Licence Number: 2/27/08/093<br>Permit Version: Not Supplied<br>Location: Location Description Not Available<br>Authority: Environment Agency, North East Region<br>Abstraction: Cooling/Gen Ind.<br>Abstraction Type: Not Supplied<br>Source: Surface<br>Daily Rate (m3): 1140<br>Yearly Rate (m3): 417000<br>Details: Licence Revoked<br>Authorised Start: Not Supplied<br>Authorised End: Not Supplied<br>Permit Start Date: Not Supplied<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 100m | (N) | 1804 | 2 | 437400<br>412400 |
| | **Water Abstractions**<br>Operator: Monckton Coke & Chemical Co Ltd<br>Licence Number: 2/27/08/068<br>Permit Version: 102<br>Location: Aire And Calder Navigation (Old) - Barnsley<br>Authority: Environment Agency, North East Region<br>Abstraction: Chemicals: General Use (High Loss)<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Surface<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Monckton Coke & Chemical Company Limited, Lundhill Lane, Royston, Barnsley<br>Authorised Start: 01 January<br>Authorised End: 31 December<br>Permit Start Date: 21st January 2008<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | (N) | 1845 | 2 | 437080<br>412370 |
| | **Water Abstractions**<br>Operator: Monckton Coke & Chemical Co Ltd<br>Licence Number: 2/27/08/068<br>Permit Version: 101<br>Location: Aire And Calder Navigation (Old) - Barnsley<br>Authority: Environment Agency, North East Region<br>Abstraction: Chemicals: General Use (High Loss)<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Surface<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Monckton Coke & Chemical Company Limited, Lundhill Lane, Royston, Barnsley<br>Authorised Start: 01 January<br>Authorised End: 31 December<br>Permit Start Date: 10th October 2003<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | (N) | 1845 | 2 | 437080<br>412370 |
| | **Water Abstractions**<br>Operator: Monckton Coke & Chemical Company Limited<br>Licence Number: 2/27/08/068<br>Permit Version: 100<br>Location: Aire And Calder Navigation (Old) - Barnsley<br>Authority: Environment Agency, North East Region<br>Abstraction: Chemicals: General Cooling (Existing Licences Only) (High Loss)<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Surface<br>Daily Rate (m3): 441<br>Yearly Rate (m3): 132000<br>Details: Monckton Coke & Chemical Company Limited, Lundhill Lane, Royston, Barnsley<br>Authorised Start: 01 January<br>Authorised End: 31 December<br>Permit Start Date: 27th March 1998<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | (N) | 1845 | 2 | 437080<br>412370 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| | **Water Abstractions**<br>Operator: Monckton Coke & Chemical Company Limited<br>Licence Number: 2/27/08/068<br>Permit Version: 100<br>Location: Aire And Calder Navigation (Old) - Barnsley<br>Authority: Environment Agency, North East Region<br>Abstraction: Chemicals: General Use (High Loss)<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Surface<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Monckton Coke & Chemical Company Limited, Lundhill Lane, Royston, Barnsley<br>Authorised Start: 01 January<br>Authorised End: 31 December<br>Permit Start Date: 27th March 1998<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | (N) | 1845 | 2 | 437080<br>412370 |
| | **Water Abstractions**<br>Operator: Redfearn Brothers Limited<br>Licence Number: 2/27/08/045<br>Permit Version: Not Supplied<br>Location: Location Description Not Available<br>Authority: Environment Agency, North East Region<br>Abstraction: Cooling<br>Abstraction Type: Not Supplied<br>Source: Groundwater<br>Daily Rate (m3): 9<br>Yearly Rate (m3): 3319<br>Details: Sherwood Sandstone Licence Revoked<br>Authorised Start: Not Supplied<br>Authorised End: Not Supplied<br>Permit Start Date: Not Supplied<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 100m | (S) | 1931 | 2 | 437200<br>408500 |
| | **Water Abstractions**<br>Operator: Redfearn Brothers Ltd<br>Licence Number: 2/27/08/043<br>Permit Version: Not Supplied<br>Location: Monk Bretton Glass Works, Monk Bretton, BARNSLEY<br>Authority: Environment Agency, North East Region<br>Abstraction: Cooling<br>Abstraction Type: Not Supplied<br>Source: Groundwater<br>Daily Rate (m3): 9<br>Yearly Rate (m3): 3319<br>Details: Borehole; Status : Revoked<br>Authorised Start: Not Supplied<br>Authorised End: Not Supplied<br>Permit Start Date: Not Supplied<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 100m | (S) | 1935 | 2 | 437205<br>408495 |
| | **Water Abstractions**<br>Operator: Redfearn Brothers Limited<br>Licence Number: 2/27/08/044<br>Permit Version: Not Supplied<br>Location: Location Description Not Available<br>Authority: Environment Agency, North East Region<br>Abstraction: Cooling<br>Abstraction Type: Not Supplied<br>Source: Surface<br>Daily Rate (m3): 3928<br>Yearly Rate (m3): 1433627<br>Details: Licence Revoked<br>Authorised Start: Not Supplied<br>Authorised End: Not Supplied<br>Permit Start Date: Not Supplied<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 100m | (S) | 1936 | 2 | 437200<br>408495 |
| | **Groundwater Vulnerability**<br>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<br>Map Sheet: Sheet 11 South Pennines<br>Scale: 1:100,000 | A13SE (SW) | 0 | 2 | 437605<br>410501 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| | **Drift Deposits**<br>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<br>Map Sheet: Sheet 11 South Pennines<br>Scale: 1:100,000 | A13NE (N) | 0 | 2 | 437616 410558 |
| | **Bedrock Aquifer Designations**<br>Aquifer Designation: Secondary Aquifer - A | A13SE (SW) | 0 | 1 | 437605 410501 |
| | **Superficial Aquifer Designations**<br>Aquifer Designation: Secondary Aquifer - Undifferentiated | A13SE (SW) | 0 | 1 | 437605 410501 |
| | **Superficial Aquifer Designations**<br>Aquifer Designation: Secondary Aquifer - A | A13NE (NE) | 0 | 1 | 437637 410515 |
| | **Extreme Flooding from Rivers or Sea without Defences**<br>Type: Extent of Extreme Flooding from Rivers or Sea without Defences<br>Flood Plain Type: Fluvial Models<br>Boundary Accuracy: As Supplied | A13SE (E) | 18 | 2 | 437725 410501 |
| | **Extreme Flooding from Rivers or Sea without Defences**<br>Type: Extent of Extreme Flooding from Rivers or Sea without Defences<br>Flood Plain Type: Fluvial Models and Fluvial Events<br>Boundary Accuracy: As Supplied | A13SE (SE) | 133 | 2 | 437809 410343 |
| | **Extreme Flooding from Rivers or Sea without Defences**<br>Type: Extent of Extreme Flooding from Rivers or Sea without Defences<br>Flood Plain Type: Fluvial Events<br>Boundary Accuracy: As Supplied | A13SE (SE) | 134 | 2 | 437810 410343 |
| | **Extreme Flooding from Rivers or Sea without Defences**<br>Type: Extent of Extreme Flooding from Rivers or Sea without Defences<br>Flood Plain Type: Fluvial Models and Fluvial Events<br>Boundary Accuracy: As Supplied | A13SE (SE) | 138 | 2 | 437812 410340 |
| | **Extreme Flooding from Rivers or Sea without Defences**<br>Type: Extent of Extreme Flooding from Rivers or Sea without Defences<br>Flood Plain Type: Fluvial Models and Fluvial Events<br>Boundary Accuracy: As Supplied | A13SE (SE) | 145 | 2 | 437817 410335 |
| | **Flooding from Rivers or Sea without Defences**<br>Type: Extent of Flooding from Rivers or Sea without Defences<br>Flood Plain Type: Fluvial Models<br>Boundary Accuracy: As Supplied | A13NE (E) | 18 | 2 | 437725 410515 |
| | **Areas Benefiting from Flood Defences**<br>None | | | | |
| | **Flood Water Storage Areas**<br>None | | | | |
| | **Flood Defences**<br>None | | | | |
| 58 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 273.7<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Don and Rother<br>Primacy: 1 | A13NE (E) | 3 | 4 | 437683 410526 |
| 59 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 89.3<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Shaw Dike<br>Catchment Name: Don and Rother<br>Primacy: 1 | A13SE (SE) | 25 | 4 | 437721 410407 |
| 60 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 167.9<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Pools Dike<br>Catchment Name: Don and Rother<br>Primacy: 1 | A13NE (N) | 55 | 4 | 437637 410667 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
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| 61 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 36.6<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Shaw Dike<br>Catchment Name: Don and Rother<br>Primacy: 1 | A13SE (SE) | 108 | 4 | 437725 410318 |
| 62 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 118.3<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Shaw Dike<br>Catchment Name: Don and Rother<br>Primacy: 1 | A13SE (SE) | 144 | 4 | 437738 410284 |
| 63 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 29.9<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Don and Rother<br>Primacy: 1 | A13SE (SE) | 184 | 4 | 437832 410293 |
| 64 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 142.6<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Pools Dike<br>Catchment Name: Don and Rother<br>Primacy: 1 | A13NE (N) | 188 | 4 | 437693 410794 |
| 65 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 81.4<br>Watercourse Level: Not Supplied<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Don and Rother<br>Primacy: 1 | A13NE (N) | 188 | 4 | 437693 410794 |
| 66 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 111.6<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Don and Rother<br>Primacy: 1 | A13NE (NE) | 251 | 4 | 437765 410830 |
| 67 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 55.1<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Don and Rother<br>Primacy: 1 | A13SE (SE) | 257 | 4 | 437802 410186 |
| 68 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 11.7<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Don and Rother<br>Primacy: 1 | A13SE (SE) | 257 | 4 | 437802 410186 |
| 69 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 1170.1<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Cudworth Dike<br>Catchment Name: Don and Rother<br>Primacy: 1 | A13SE (SE) | 262 | 4 | 437892 410242 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
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| 70 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 238.5<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Don and Rother<br>Primacy: 1 | A8NE (S) | 267 | 4 | 437729 410149 |
| 71 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 182.8<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Don and Rother<br>Primacy: 1 | A18SW (N) | 293 | 4 | 437513 410881 |
| 72 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 10.5<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Don and Rother<br>Primacy: 1 | A8NW (S) | 305 | 4 | 437577 410095 |
| 73 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 357.9<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Pools Dike<br>Catchment Name: Don and Rother<br>Primacy: 1 | A18SE (N) | 309 | 4 | 437659 410921 |
| 74 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 94.4<br>Watercourse Level: Not Supplied<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Don and Rother<br>Primacy: 1 | A18SW (N) | 311 | 4 | 437483 410886 |
| 75 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 16.6<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Don and Rother<br>Primacy: 1 | A8NW (S) | 315 | 4 | 437579 410085 |
| 76 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 135.0<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Don and Rother<br>Primacy: 1 | A18SW (NW) | 319 | 4 | 437367 410856 |
| 77 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 172.8<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Don and Rother<br>Primacy: 1 | A8NW (S) | 332 | 4 | 437579 410068 |
| 78 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 78.7<br>Watercourse Level: Not Supplied<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Don and Rother<br>Primacy: 1 | A18SE (NE) | 349 | 4 | 437861 410884 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| 79 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 124.4<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Don and Rother<br>Primacy: 1 | A13NW (NW) | 352 | 4 | 437278 410838 |
| 80 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 2.5<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Don and Rother<br>Primacy: 1 | A18SW (NW) | 355 | 4 | 437280 410844 |
| 81 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 168.6<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Don and Rother<br>Primacy: 1 | A18SE (NE) | 361 | 4 | 437789 410942 |
| 82 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 60.8<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Don and Rother<br>Primacy: 1 | A8NW (S) | 384 | 4 | 437504 410018 |
| 83 | **OS Water Network Lines**<br>Watercourse Form: Canal<br>Watercourse Length: 1550.1<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Barnsley Canal<br>Catchment Name: Don and Rother<br>Primacy: 1 | A12SE (SW) | 395 | 4 | 437187 410246 |
| 84 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 331.9<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Don and Rother<br>Primacy: 1 | A18SE (NE) | 407 | 4 | 437939 410892 |
| 85 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 337.9<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Don and Rother<br>Primacy: 1 | A8NW (S) | 436 | 4 | 437466 409972 |
| 86 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 133.3<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Don and Rother<br>Primacy: 1 | A8NE (SE) | 437 | 4 | 437824 410004 |
| 87 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 188.0<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Don and Rother<br>Primacy: 1 | A17SE (NW) | 451 | 4 | 437194 410895 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| 88 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 109.5<br>Watercourse Level: Not Supplied<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Don and Rother<br>Primacy: 1 | A7NE (SW) | 470 | 4 | 437180 410111 |
| 89 | **OS Water Network Lines**<br>Watercourse Form: Lake<br>Watercourse Length: 39.6<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Don and Rother<br>Primacy: 1 | A8NE (S) | 562 | 4 | 437809 409872 |
| 90 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 28.3<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Don and Rother<br>Primacy: 1 | A7NE (SW) | 567 | 4 | 437138 410010 |
| 91 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 5.4<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Don and Rother<br>Primacy: 1 | A8NE (SE) | 586 | 4 | 437879 409864 |
| 92 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 30.9<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Don and Rother<br>Primacy: 1 | A8NE (SE) | 588 | 4 | 437886 409865 |
| 93 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 70.1<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Don and Rother<br>Primacy: 1 | A8NE (S) | 597 | 4 | 437799 409834 |
| 94 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 2.2<br>Watercourse Level: Not Supplied<br>Permanent: True<br>Watercourse Name: Pools Dike<br>Catchment Name: Don and Rother<br>Primacy: 1 | A18NE (N) | 601 | 4 | 437628 411213 |
| 95 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 99.4<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Pools Dike<br>Catchment Name: Don and Rother<br>Primacy: 1 | A18NE (N) | 603 | 4 | 437628 411216 |
| 96 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 74.3<br>Watercourse Level: Not Supplied<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Don and Rother<br>Primacy: 1 | A17SE (NW) | 625 | 4 | 437048 410995 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| 97 | **OS Water Network Lines**<br>Watercourse Form: Lake<br>Watercourse Length: 20.1<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Don and Rother<br>Primacy: 1 | A8SE (S) | 666 | 4 | 437799 409764 |
| 98 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 34.8<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Don and Rother<br>Primacy: 1 | A18NE (N) | 684 | 4 | 437673 411296 |
| 99 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 125.8<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Don and Rother<br>Primacy: 1 | A18NE (N) | 685 | 4 | 437665 411297 |
| 100 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 925.4<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Don and Rother<br>Primacy: 1 | A19SW (NE) | 690 | 4 | 438249 410947 |
| 101 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 1.7<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Don and Rother<br>Primacy: 2 | A19SW (NE) | 690 | 4 | 438249 410945 |
| 102 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 8.7<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Don and Rother<br>Primacy: 1 | A17SE (NW) | 693 | 4 | 436978 411021 |
| 103 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 179.4<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Don and Rother<br>Primacy: 1 | A18NE (N) | 694 | 4 | 437700 411304 |
| 104 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 194.5<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Don and Rother<br>Primacy: 1 | A18NE (N) | 694 | 4 | 437698 411304 |
| 105 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 2.3<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Don and Rother<br>Primacy: 1 | A17SE (NW) | 695 | 4 | 436977 411020 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
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| 106 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 12.3<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Don and Rother<br>Primacy: 1 | A17SE (NW) | 696 | 4 | 436981 411027 |
| 107 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 32.1<br>Watercourse Level: Not Supplied<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Don and Rother<br>Primacy: 1 | A17SE (NW) | 697 | 4 | 436975 411021 |
| 108 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 74.4<br>Watercourse Level: Not Supplied<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Don and Rother<br>Primacy: 1 | A17SE (NW) | 705 | 4 | 436978 411038 |
| 109 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 150.2<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Don and Rother<br>Primacy: 1 | A17SE (NW) | 727 | 4 | 436944 411032 |
| 110 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 162.0<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Don and Rother<br>Primacy: 1 | A8SW (S) | 734 | 4 | 437418 409677 |
| 111 | **OS Water Network Lines**<br>Watercourse Form: Lake<br>Watercourse Length: 24.6<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Don and Rother<br>Primacy: 1 | A18NE (N) | 742 | 4 | 437720 411350 |
| 112 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 158.7<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Don and Rother<br>Primacy: 1 | A18NE (N) | 744 | 4 | 437730 411351 |
| 113 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 30.4<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Don and Rother<br>Primacy: 1 | A18NE (N) | 753 | 4 | 437724 411361 |
| 114 | **OS Water Network Lines**<br>Watercourse Form: Lake<br>Watercourse Length: 8.4<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Don and Rother<br>Primacy: 1 | A18NW (N) | 757 | 4 | 437560 411365 |

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| 115 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 26.7<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Don and Rother<br>Primacy: 1 | A18NW (N) | 757 | 4 | 437560 411365 |
| 116 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 2.6<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Don and Rother<br>Primacy: 1 | A18NW (N) | 757 | 4 | 437587 411367 |
| 117 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 32.7<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Don and Rother<br>Primacy: 1 | A18NW (N) | 757 | 4 | 437590 411368 |
| 118 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 174.3<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Don and Rother<br>Primacy: 1 | A8SW (S) | 767 | 4 | 437562 409632 |
| 119 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 102.9<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Don and Rother<br>Primacy: 1 | A17SW (NW) | 778 | 4 | 436915 411076 |
| 120 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 21.0<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Don and Rother<br>Primacy: 1 | A18NW (N) | 779 | 4 | 437540 411386 |
| 121 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 3.8<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Don and Rother<br>Primacy: 1 | A18NW (N) | 779 | 4 | 437561 411387 |
| 122 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 161.0<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Don and Rother<br>Primacy: 1 | A18NW (N) | 780 | 4 | 437564 411388 |
| 123 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 17.7<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Don and Rother<br>Primacy: 1 | A18NE (N) | 782 | 4 | 437735 411389 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| 124 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 99.5<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Don and Rother<br>Primacy: 1 | A18NE (N) | 782 | 4 | 437735 411389 |
| 125 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 5.7<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Don and Rother<br>Primacy: 1 | A18NE (N) | 798 | 4 | 437743 411404 |
| 126 | **OS Water Network Lines**<br>Watercourse Form: Lake<br>Watercourse Length: 63.3<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Don and Rother<br>Primacy: 1 | A18NE (N) | 804 | 4 | 437746 411410 |
| 127 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 36.0<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Don and Rother<br>Primacy: 2 | A18NE (N) | 805 | 4 | 437849 411390 |
| 128 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 163.3<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Don and Rother<br>Primacy: 1 | A18NE (N) | 805 | 4 | 437849 411390 |
| 129 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 199.3<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Don and Rother<br>Primacy: 1 | A17SW (NW) | 814 | 4 | 436807 410989 |
| 130 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 69.0<br>Watercourse Level: Not Supplied<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Don and Rother<br>Primacy: 1 | A17SW (NW) | 814 | 4 | 436807 410989 |
| 131 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 90.1<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Don and Rother<br>Primacy: 1 | A8SW (S) | 815 | 4 | 437379 409602 |
| 132 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 134.2<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Don and Rother<br>Primacy: 1 | A7SE (S) | 822 | 4 | 437257 409631 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| 133 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 171.0<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Don and Rother<br>Primacy: 1 | A17SW (NW) | 822 | 4 | 436767 410933 |
| 134 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 140.8<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Don and Rother<br>Primacy: 2 | A18NE (N) | 837 | 4 | 437873 411417 |
| 135 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 107.9<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Don and Rother<br>Primacy: 1 | A18NE (N) | 837 | 4 | 437873 411417 |
| 136 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 76.2<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Don and Rother<br>Primacy: 1 | A18NE (N) | 840 | 4 | 437803 411437 |
| 137 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 63.4<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Don and Rother<br>Primacy: 1 | A17SW (NW) | 864 | 4 | 436813 411088 |
| 138 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 12.1<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Don and Rother<br>Primacy: 2 | A18NE (N) | 879 | 4 | 437673 411491 |
| 139 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 95.8<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Don and Rother<br>Primacy: 1 | A18NE (N) | 879 | 4 | 437673 411491 |
| 140 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 157.9<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Don and Rother<br>Primacy: 2 | A19NW (NE) | 893 | 4 | 438021 411421 |
| 141 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 5.5<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Don and Rother<br>Primacy: 1 | A18NE (N) | 899 | 4 | 437862 411484 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| 142 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 137.4<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Don and Rother<br>Primacy: 1 | A19NW (NE) | 902 | 4 | 438005 411438 |
| 143 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 27.2<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Don and Rother<br>Primacy: 2 | A19NW (NE) | 902 | 4 | 438005 411438 |
| 144 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 12.3<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Don and Rother<br>Primacy: 1 | A19NW (N) | 902 | 4 | 437975 411451 |
| 145 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 6.6<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Don and Rother<br>Primacy: 1 | A18NE (N) | 905 | 4 | 437866 411489 |
| 146 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 50.9<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Don and Rother<br>Primacy: 2 | A18NE (N) | 905 | 4 | 437821 411500 |
| 147 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 54.0<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Don and Rother<br>Primacy: 1 | A18NW (N) | 906 | 4 | 437459 411500 |
| 148 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 26.8<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Don and Rother<br>Primacy: 1 | A19NW (N) | 909 | 4 | 437987 411453 |
| 149 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 410.9<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Don and Rother<br>Primacy: 1 | A18NE (N) | 910 | 4 | 437871 411493 |
| 150 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 46.7<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Don and Rother<br>Primacy: 1 | A18NE (N) | 910 | 4 | 437871 411493 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| 151 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 225.5<br>Watercourse Level: Not Supplied<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Don and Rother<br>Primacy: 1 | A17SW (W) | 917 | 4 | 436631 410850 |
| 152 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 183.4<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Don and Rother<br>Primacy: 1 | A17SW (NW) | 921 | 4 | 436751 411098 |
| 153 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 173.7<br>Watercourse Level: Not Supplied<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Don and Rother<br>Primacy: 1 | A18NW (N) | 922 | 4 | 437373 411494 |
| 154 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 40.6<br>Watercourse Level: Not Supplied<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Don and Rother<br>Primacy: 1 | A18NW (N) | 932 | 4 | 437374 411505 |
| 155 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 21.8<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Don and Rother<br>Primacy: 1 | A23SW (N) | 958 | 4 | 437440 411549 |
| 156 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 50.5<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Don and Rother<br>Primacy: 1 | A23SW (N) | 958 | 4 | 437440 411549 |
| 157 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 53.5<br>Watercourse Level: Not Supplied<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Don and Rother<br>Primacy: 1 | A23SW (N) | 962 | 4 | 437418 411548 |
| 158 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 3.2<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Don and Rother<br>Primacy: 1 | A23SE (N) | 969 | 4 | 437704 411579 |
| 159 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 57.2<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Don and Rother<br>Primacy: 1 | A23SW (N) | 972 | 4 | 437365 411544 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| 160 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 17.2<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Don and Rother<br>Primacy: 1 | A23SE (N) | 972 | 4 | 437704 411583 |
| 161 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 407.5<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Don and Rother<br>Primacy: 1 | A17NE (N) | 977 | 4 | 437211 411500 |
| 162 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 558.6<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Sandybridge Dike<br>Catchment Name: Don and Rother<br>Primacy: 1 | A19NW (NE) | 988 | 4 | 438139 411465 |
| 163 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 9.3<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Don and Rother<br>Primacy: 1 | A23SE (N) | 989 | 4 | 437704 411600 |
| 164 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 199.5<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Don and Rother<br>Primacy: 1 | A23SE (N) | 998 | 4 | 437702 411609 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| 165 | **Historical Landfill Sites**<br>Licence Holder: Mr A Barraclough<br>Location: Shaw Lane, Carlton, Barnsley<br>Name: Disused Railway Sidings<br>Operator Location: 93 Weetshaw Lane, Shafton, Barnsley<br>Boundary Accuracy: As Supplied<br>Provider Reference: EAHLD04279<br>First Input Date: 30th November 1985<br>Last Input Date: 3rd February 1992<br>Specified Waste Type: Deposited Waste included Inert, Industrial, Commercial and Household Waste<br>EA Waste Ref: 0<br>Regis Ref: Not Supplied<br>WRC Ref: 4400/0502<br>BGS Ref: Not Supplied<br>Other Ref: 20B499(100), 4400/B499, WD20 B499 | A13SE (SE) | 117 | 2 | 437734 410310 |
| 166 | **Historical Landfill Sites**<br>Licence Holder: Barnsley Metropolitan Borough Council or B D R Waste Disposal Limited<br>Location: Near Pools Dyke, Shaw Lane, Carlton<br>Name: Cudworth North Junction<br>Operator Location: Public Services Department, Cleansing Division, Smithies Lane, Barnsley<br>Boundary Accuracy: As Supplied<br>Provider Reference: EAHLD04925<br>First Input Date: 31st December 1983<br>Last Input Date: 31st December 1995<br>Specified Waste Type: Deposited Waste included Inert, Industrial, Commercial, Household and Special Waste, and Liquid Sludge<br>EA Waste Ref: 0<br>Regis Ref: Not Supplied<br>WRC Ref: 4400/0562<br>BGS Ref: Not Supplied<br>Other Ref: 2B22, 2B1(3), WD20 B1035, WD2C3, 20B1035, WD2 B1, 4400/B22, CD3, 4400/0406, WD2 B22 | A13NW (N) | 182 | 2 | 437539 410769 |
| 167 | **Historical Landfill Sites**<br>Licence Holder: E Maw and Son<br>Location: Carlton, Royston, Barnsley<br>Name: Land off Cronkhill Lane<br>Operator Location: Stud Farm, Carlton, Barnsley<br>Boundary Accuracy: As Supplied<br>Provider Reference: EAHLD04277<br>First Input Date: 8th March 1984<br>Last Input Date: 31st October 1990<br>Specified Waste Type: Deposited Waste included Inert and Commercial Waste<br>EA Waste Ref: 0<br>Regis Ref: Not Supplied<br>WRC Ref: 4400/0491<br>BGS Ref: Not Supplied<br>Other Ref: WD20 B417, 4400/B417, 20B417(89) | A12NE (NW) | 367 | 2 | 437226 410808 |
| 168 | **Historical Landfill Sites**<br>Licence Holder: E Borad and C White<br>Location: Carlton, Royston, Barnsley<br>Name: Land off Cronkhill Lane<br>Operator Location: 4 Vicarage Lane, Royston, Barnsley, South Yorkshire<br>Boundary Accuracy: As Supplied<br>Provider Reference: EAHLD04276<br>First Input Date: 31st March 1986<br>Last Input Date: 12th September 1990<br>Specified Waste Type: Deposited Waste included Inert and Commercial Waste<br>EA Waste Ref: 0<br>Regis Ref: Not Supplied<br>WRC Ref: 4400/0503<br>BGS Ref: Not Supplied<br>Other Ref: WD20 B513, 4400/B513, 20B513(101) | A12NE (NW) | 470 | 2 | 437086 410784 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| 169 | **Historical Landfill Sites**<br>Licence Holder: E Maw<br>Location: Carlton, Barnsley<br>Name: Land between Royston Lane and Cronkhill Lane<br>Operator Location: Stud Farm, Carlton, Barnsley<br>Boundary Accuracy: As Supplied<br>Provider Reference: EAHLD04894<br>First Input Date: 18th February 1985<br>Last Input Date: 20th January 1993<br>Specified Waste Type: Deposited Waste included Inert and Commercial Waste<br>EA Waste Ref: 0<br>Regis Ref: Not Supplied<br>WRC Ref: 4400/0497<br>BGS Ref: Not Supplied<br>Other Ref: WD20 B457, 4400/B457, 20B457(95) | A12NW (W) | 815 | 2 | 436704 410732 |
| 170 | **Licensed Waste Management Facilities (Landfill Boundaries)**<br>Name: E J Lidster Construction Limited<br>Licence Number: 60560<br>Location: Land/premises At, Pools Lane, Royston, Barnsley, South Yorkshire, S71 4BW<br>Licence Holder: E J Lidster Construction Ltd<br>Authority: Environment Agency - North East Region, Yorkshire Area<br>Site Category: Household, Commercial And Industrial Waste Landfills<br>Max Input Rate: Not Supplied<br>**Licence Status: Issued**<br>Issued: 16th May 1984<br>Positional Accuracy: Positioned by the supplier<br>Boundary Accuracy: As Supplied | A18SW (NW) | 326 | 2 | 437366 410863 |
| 171 | **Licensed Waste Management Facilities (Locations)**<br>Licence Number: 60602<br>Location: Boulder Bridge Lane, Carlton, Barnsley, South Yorkshire<br>Operator Name: W F S Metals Ltd<br>Operator Location: Not Supplied<br>Authority: Environment Agency - North East Region, Yorkshire Area<br>Site Category: Metal Recycling Sites (Mixed)<br>**Licence Status: Expired**<br>Issued: 9th September 1993<br>Last Modified: Not Supplied<br>Expires: Not Supplied<br>Suspended: Not Supplied<br>Revoked: Not Supplied<br>Surrendered: Not Supplied<br>IPPC Reference: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | A13NW (N) | 0 | 2 | 437600 410570 |
| 172 | **Licensed Waste Management Facilities (Locations)**<br>Licence Number: 100451<br>Location: Welbourn Car Dismantlers, Boulder Bridge Lane, Carlton, Barnsley, South Yorkshire, S71 3HJ<br>Operator Name: Welbourn Paul<br>Operator Location: Not Supplied<br>Authority: Environment Agency - North East Region, Yorkshire Area<br>Site Category: Metal Recycling Sites (Vehicle Dismantlers)<br>**Licence Status: Issued**<br>Issued: 30th October 2008<br>Last Modified: Not Supplied<br>Expires: Not Supplied<br>Suspended: Not Supplied<br>Revoked: Not Supplied<br>Surrendered: Not Supplied<br>IPPC Reference: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | A13NE (NE) | 7 | 2 | 437682 410536 |
| 172 | **Licensed Waste Management Facilities (Locations)**<br>Licence Number: 60574<br>Location: Boulder Bridge Lane, Off Shaw Lane, Carlton, South Yorkshire, S71 3HJ<br>Operator Name: Trevor Wigley & Son Ltd<br>Operator Location: Boulder Bridge Lane, Off Shaw Lane, Carlton, S Yorks, S71 3HJ<br>Authority: Environment Agency - North East Region, Ridings Area<br>Site Category: Metal Recycling Sites (Vehicle Dismantlers)<br>**Licence Status: Issued**<br>Issued: 10th June 1992<br>Last Modified: Not Supplied<br>Expires: Not Supplied<br>Suspended: Not Supplied<br>Revoked: Not Supplied<br>Surrendered: Not Supplied<br>IPPC Reference: Not Supplied<br>Positional Accuracy: Located by supplier to within 100m | A13SE (E) | 14 | 2 | 437700 410500 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| 172 | **Licensed Waste Management Facilities (Locations)**<br>Licence Number: 65395<br>Location: Land/premises At, Shaw Lane, Carlton, Barnsley, South Yorkshire, S71 3HJ<br>Operator Name: T Wigley & Son Bus Ltd<br>Operator Location: Not Supplied<br>Authority: Environment Agency - North East Region, Yorkshire Area<br>Site Category: End of Life Vehicles<br>**Licence Status: Issued**<br>Issued: 26th January 2005<br>Last Modified: Not Supplied<br>Expires: Not Supplied<br>Suspended: Not Supplied<br>Revoked: Not Supplied<br>Surrendered: Not Supplied<br>IPPC Reference: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | A13NE (E) | 47 | 2 | 437724 410537 |
| 173 | **Licensed Waste Management Facilities (Locations)**<br>Licence Number: 60576<br>Location: Land/premises At, Shaw Lane, Carlton, Barnsley, South Yorkshire, S71 3HJ<br>Operator Name: Passenger Vehicle Spares ( Barnsley ) Ltd<br>Operator Location: Not Supplied<br>Authority: Environment Agency - North East Region, Yorkshire Area<br>Site Category: Metal Recycling Sites (Vehicle Dismantlers)<br>**Licence Status: Modified**<br>Issued: 4th April 1989<br>Last Modified: 20th July 2001<br>Expires: Not Supplied<br>Suspended: Not Supplied<br>Revoked: Not Supplied<br>Surrendered: Not Supplied<br>IPPC Reference: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | A13SE (SE) | 8 | 2 | 437663 410409 |
| 174 | **Licensed Waste Management Facilities (Locations)**<br>Licence Number: 60582<br>Location: Boulder Bridge Lane, Carlton, Barnsley, South Yorkshire, S71 3HJ<br>Operator Name: Welbourn James<br>Operator Location: Not Supplied<br>Authority: Environment Agency - North East Region, Yorkshire Area<br>Site Category: Metal Recycling Sites (Vehicle Dismantlers)<br>**Licence Status: Issued**<br>Issued: 7th June 1989<br>Last Modified: Not Supplied<br>Expires: Not Supplied<br>Suspended: Not Supplied<br>Revoked: Not Supplied<br>Surrendered: Not Supplied<br>IPPC Reference: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | A13SE (SE) | 33 | 2 | 437736 410417 |
| 175 | **Licensed Waste Management Facilities (Locations)**<br>Licence Number: 65549<br>Location: Land/premises At, Boulder Bridge Lane, Carlton, Barnsley, South Yorkshire, S71 3HJ<br>Operator Name: Christopher & Kevin Beckett<br>Operator Location: Not Supplied<br>Authority: Environment Agency - North East Region, Yorkshire Area<br>Site Category: Metal Recycling Sites (Mixed)<br>**Licence Status: Issued**<br>Issued: 29th October 2007<br>Last Modified: Not Supplied<br>Expires: Not Supplied<br>Suspended: Not Supplied<br>Revoked: Not Supplied<br>Surrendered: Not Supplied<br>IPPC Reference: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | A13NE (N) | 36 | 2 | 437631 410647 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| 175 | **Licensed Waste Management Facilities (Locations)**<br>Licence Number: 60594<br>Location: Boulder Bridge, Shaw Lane, Carlton, Barnsley, South Yorkshire, S71 3HJ<br>Operator Name: Ripley, Geoff<br>Operator Location: Not Supplied<br>Authority: Environment Agency - North East Region, Ridings Area<br>Site Category: Metal Recycling Sites (Vehicle Dismantlers)<br>**Licence Status: Issued**<br>Issued: 14th September 1992<br>Last Modified: Not Supplied<br>Expires: Not Supplied<br>Suspended: Not Supplied<br>Revoked: Not Supplied<br>Surrendered: Not Supplied<br>IPPC Reference: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | A13NE (N) | 42 | 2 | 437608 410644 |
| 176 | **Licensed Waste Management Facilities (Locations)**<br>Licence Number: 65278<br>Location: Land At, Boulder Bridge Lane, Off Shaw Lane, Carlton, Barnsley, South Yorkshire, S71 3HJ<br>Operator Name: William Firth & Son Limited<br>Operator Location: Not Supplied<br>Authority: Environment Agency - North East Region, Yorkshire Area<br>Site Category: Metal Recycling Sites (Mixed)<br>**Licence Status: Modified**<br>Issued: 24th February 2004<br>Last Modified: 16th December 2015<br>Expires: Not Supplied<br>Suspended: Not Supplied<br>Revoked: Not Supplied<br>Surrendered: Not Supplied<br>IPPC Reference: Not Supplied<br>Positional Accuracy: Located by supplier to within 100m | A13NE (NE) | 43 | 2 | 437700 410600 |
| 176 | **Licensed Waste Management Facilities (Locations)**<br>Licence Number: 60575<br>Location: Land/premises At, Boulder Bridge Lane, Carlton, Barnsley, South Yorkshire, S71 3HJ<br>Operator Name: Parton & Allen<br>Operator Location: Not Supplied<br>Authority: Environment Agency - North East Region, Yorkshire Area<br>Site Category: Metal Recycling Sites (Vehicle Dismantlers)<br>**Licence Status: Issued**<br>Issued: 8th May 1989<br>Last Modified: Not Supplied<br>Expires: Not Supplied<br>Suspended: Not Supplied<br>Revoked: Not Supplied<br>Surrendered: Not Supplied<br>IPPC Reference: Not Supplied<br>Positional Accuracy: Located by supplier to within 100m | A13NE (NE) | 43 | 2 | 437700 410600 |
| 177 | **Licensed Waste Management Facilities (Locations)**<br>Licence Number: 65508<br>Location: Boulder Bridge Lane Site, Boulder Bridge Lane, Carlton, Barnsley, South Yorkshire, S71 3HJ<br>Operator Name: Mr Derek Heeley & Mr Melvin Corbett<br>Operator Location: Not Supplied<br>Authority: Environment Agency - North East Region, Yorkshire Area<br>Site Category: Household, Commercial And Industrial Transfer Stations<br>**Licence Status: Modified**<br>Issued: 26th July 2006<br>Last Modified: 5th August 2014<br>Expires: Not Supplied<br>Suspended: Not Supplied<br>Revoked: Not Supplied<br>Surrendered: Not Supplied<br>IPPC Reference: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | A13NE (NE) | 82 | 2 | 437682 410684 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| 177 | **Licensed Waste Management Facilities (Locations)**<br>Licence Number: 60579<br>Location: Becketts Yard, Boulder Bridge Lane, Carlton, Barnsley, South Yorkshire, S71 3HJ<br>Operator Name: Beckett C K<br>Operator Location: Not Supplied<br>Authority: Environment Agency - North East Region, Yorkshire Area<br>Site Category: Metal Recycling Sites (Mixed)<br>**Licence Status: Modified**<br>Issued: 30th October 1992<br>Last Modified: 19th December 2013<br>Expires: Not Supplied<br>Suspended: Not Supplied<br>Revoked: Not Supplied<br>Surrendered: Not Supplied<br>IPPC Reference: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | A13NE (N) | 88 | 2 | 437650 410700 |
| 178 | **Licensed Waste Management Facilities (Locations)**<br>Licence Number: 60589<br>Location: Boulder Bridge Lane, Carlton, Barnsley, South Yorkshire, S71 3HJ<br>Operator Name: Beckett Christopher And Kevin<br>Operator Location: Not Supplied<br>Authority: Environment Agency - North East Region, Yorkshire Area<br>Site Category: Metal Recycling Sites (Mixed)<br>**Licence Status: Modified**<br>Issued: 28th April 1992<br>Last Modified: 20th March 2002<br>Expires: Not Supplied<br>Suspended: Not Supplied<br>Revoked: Not Supplied<br>Surrendered: Not Supplied<br>IPPC Reference: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | A13NW (W) | 103 | 2 | 437400 410570 |
| 179 | **Licensed Waste Management Facilities (Locations)**<br>Licence Number: 65317<br>Location: Unit 18, Shaw Lane, Carlton, Barnsley, South Yorkshire, S71 3HJ<br>Operator Name: Newton Melvin Anthony<br>Operator Location: Not Supplied<br>Authority: Environment Agency - North East Region, Yorkshire Area<br>Site Category: End of Life Vehicles<br>**Licence Status: Transferred**<br>Issued: 11th October 2004<br>Last Modified: Not Supplied<br>Expires: Not Supplied<br>Suspended: Not Supplied<br>Revoked: Not Supplied<br>Surrendered: Not Supplied<br>IPPC Reference: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | A13SE (S) | 105 | 2 | 437639 410307 |
| 179 | **Licensed Waste Management Facilities (Locations)**<br>Licence Number: 60585<br>Location: Land / Premises At, Shaw Lane, Carlton, Barnsley, South Yorkshire, S71 3HJ<br>Operator Name: Hardwick Alan Harry<br>Operator Location: Not Supplied<br>Authority: Environment Agency - North East Region, Yorkshire Area<br>Site Category: Metal Recycling Sites (Mixed)<br>**Licence Status: Transferred**<br>Issued: 15th March 1993<br>Last Modified: Not Supplied<br>Expires: Not Supplied<br>Suspended: Not Supplied<br>Revoked: Not Supplied<br>Surrendered: Not Supplied<br>IPPC Reference: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | A13SE (S) | 105 | 2 | 437639 410307 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| 179 | **Licensed Waste Management Facilities (Locations)**<br>Licence Number: 60584<br>Location: Land / Premises At, Shaw Lane, Carlton, Barnsley, South Yorkshire, S71 3HJ<br>Operator Name: Hardwick Alan Harry<br>Operator Location: Not Supplied<br>Authority: Environment Agency - North East Region, Yorkshire Area<br>Site Category: Metal Recycling Sites (Vehicle Dismantlers)<br>**Licence Status: Issued**<br>Issued: 15th September 1992<br>Last Modified: Not Supplied<br>Expires: Not Supplied<br>Suspended: Not Supplied<br>Revoked: Not Supplied<br>Surrendered: Not Supplied<br>IPPC Reference: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | A13SE (S) | 105 | 2 | 437639 410307 |
| 179 | **Licensed Waste Management Facilities (Locations)**<br>Licence Number: 60573<br>Location: Land/premises At, Shaw Lane, Carlton, Barnsley, South Yorkshire, S71 3HJ<br>Operator Name: Lloyd Peter<br>Operator Location: Not Supplied<br>Authority: Environment Agency - North East Region, Yorkshire Area<br>Site Category: Metal Recycling Sites (Mixed)<br>**Licence Status: Issued**<br>Issued: 29th November 1990<br>Last Modified: Not Supplied<br>Expires: Not Supplied<br>Suspended: Not Supplied<br>Revoked: Not Supplied<br>Surrendered: Not Supplied<br>IPPC Reference: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | A13SE (S) | 105 | 2 | 437639 410307 |
| 179 | **Licensed Waste Management Facilities (Locations)**<br>Licence Number: 60580<br>Location: Land/ Premises At, Shaw Lane, Carlton, Barnsley, South Yorkshire, S71 3HJ<br>Operator Name: Gough Milton<br>Operator Location: Not Supplied<br>Authority: Environment Agency - North East Region, Yorkshire Area<br>Site Category: Metal Recycling Sites (Vehicle Dismantlers)<br>**Licence Status: Issued**<br>Issued: 19th April 1989<br>Last Modified: Not Supplied<br>Expires: Not Supplied<br>Suspended: Not Supplied<br>Revoked: Not Supplied<br>Surrendered: Not Supplied<br>IPPC Reference: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | A13SE (S) | 105 | 2 | 437639 410307 |
| 179 | **Licensed Waste Management Facilities (Locations)**<br>Licence Number: 60581<br>Location: Land / Premises At, Shaw Lane, Carlton, Barnsley, South Yorkshire, S70 3HJ<br>Operator Name: Gough Milton<br>Operator Location: Not Supplied<br>Authority: Environment Agency - North East Region, Yorkshire Area<br>Site Category: Metal Recycling Sites (Vehicle Dismantlers)<br>**Licence Status: Issued**<br>Issued: 19th April 1989<br>Last Modified: Not Supplied<br>Expires: Not Supplied<br>Suspended: Not Supplied<br>Revoked: Not Supplied<br>Surrendered: Not Supplied<br>IPPC Reference: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | A13SE (S) | 105 | 2 | 437639 410307 |
| 180 | **Licensed Waste Management Facilities (Locations)**<br>Licence Number: 65188<br>Location: Land/premises At, Shaw Lane, Carlton, Barnsley, South Yorkshire, S71 3HJ<br>Operator Name: Malcolm Christopher Beckett And Kevin Richard Beckett<br>Operator Location: Not Supplied<br>Authority: Environment Agency - North East Region, Yorkshire Area<br>Site Category: Metal Recycling Sites (Mixed)<br>**Licence Status: Issued**<br>Issued: 17th November 2000<br>Last Modified: Not Supplied<br>Expires: Not Supplied<br>Suspended: Not Supplied<br>Revoked: Not Supplied<br>Surrendered: Not Supplied<br>IPPC Reference: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | A13NW (N) | 112 | 2 | 437542 410696 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| 181 | **Licensed Waste Management Facilities (Locations)**<br>Licence Number: 60578<br>Location: Goodwins Yard, Boulder Bridge Lane, Carlton, Barnsley, South Yorkshire, S71 3HJ<br>Operator Name: Grantscope Ltd<br>Operator Location: Not Supplied<br>Authority: Environment Agency - North East Region, Yorkshire Area<br>Site Category: Metal Recycling Sites (Mixed)<br>**Licence Status: Revoked**<br>Issued: 1st January 1970<br>Last Modified: 19th January 2006<br>Expires: Not Supplied<br>Suspended: Not Supplied<br>Revoked: 29th November 2012<br>Surrendered: Not Supplied<br>IPPC Reference: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | A13NE (NE) | 154 | 2 | 437770 410700 |
| 182 | **Licensed Waste Management Facilities (Locations)**<br>Licence Number: 60542<br>Location: Land/premises At, Off Shaw Lane, Carlton, Barnsley, South Yorkshire, S71 3HJ<br>Operator Name: Mr T Thornton<br>Operator Location: Not Supplied<br>Authority: Environment Agency - North East Region, Yorkshire Area<br>Site Category: Metal Recycling Sites (Vehicle Dismantlers)<br>**Licence Status: Issued**<br>Issued: 22nd November 1996<br>Last Modified: Not Supplied<br>Expires: Not Supplied<br>Suspended: Not Supplied<br>Revoked: Not Supplied<br>Surrendered: Not Supplied<br>IPPC Reference: Not Supplied<br>Positional Accuracy: Located by supplier to within 100m | A13SW (S) | 205 | 2 | 437500 410200 |
| 183 | **Licensed Waste Management Facilities (Locations)**<br>Licence Number: 60570<br>Location: Land/premises At, Shaw Lane, Carlton, Barnsley, South Yorkshire, S71 3HJ<br>Operator Name: Meynell M E<br>Operator Location: Not Supplied<br>Authority: Environment Agency - North East Region, Yorkshire Area<br>Site Category: Metal Recycling Sites (Mixed)<br>**Licence Status: Issued**<br>Issued: 15th June 1989<br>Last Modified: Not Supplied<br>Expires: Not Supplied<br>Suspended: Not Supplied<br>Revoked: Not Supplied<br>Surrendered: Not Supplied<br>IPPC Reference: Not Supplied<br>Positional Accuracy: Located by supplier to within 100m | A13SE (SE) | 244 | 2 | 437800 410200 |
| 183 | **Licensed Waste Management Facilities (Locations)**<br>Licence Number: 60562<br>Location: Shotties Island, Land Off Shaw Lane, Carlton, Barnsley, South Yorkshire, S71 3HJ<br>Operator Name: Thackray Dennis<br>Operator Location: 28 Land Off Shaw Lane, Monk Bretton, Barnsley, S Yorks, S71 2DJ<br>Authority: Environment Agency - North East Region, Ridings Area<br>Site Category: Special Waste Transfer Stations<br>**Licence Status: Issued**<br>Issued: 13th March 1985<br>Last Modified: Not Supplied<br>Expires: Not Supplied<br>Suspended: Not Supplied<br>Revoked: Not Supplied<br>Surrendered: Not Supplied<br>IPPC Reference: Not Supplied<br>Positional Accuracy: Located by supplier to within 100m | A13SE (SE) | 244 | 2 | 437800 410200 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| 184 | **Licensed Waste Management Facilities (Locations)**<br>Licence Number: 65230<br>Location: Land At Shotties Island, Shaw Lane, Carlton, Barnsley, South Yorkshire, S71 3HJ<br>Operator Name: D T S Environmental Ltd<br>Operator Location: Not Supplied<br>Authority: Environment Agency - North East Region, Yorkshire Area<br>Site Category: Physical Treatment Facilities<br>**Licence Status: Expired**<br>Issued: 16th December 2003<br>Last Modified: 31st December 2010<br>Expires: Not Supplied<br>Suspended: Not Supplied<br>Revoked: Not Supplied<br>Surrendered: Not Supplied<br>IPPC Reference: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | A13SE (S) | 245 | 2 | 437730 410180 |
| 185 | **Licensed Waste Management Facilities (Locations)**<br>Licence Number: 60572<br>Location: Land/premises At, Shaw Lane, Carlton, Barnsley, South Yorkshire, S71 2QE<br>Operator Name: W Conway & Sons<br>Operator Location: Not Supplied<br>Authority: Environment Agency - North East Region, Yorkshire Area<br>Site Category: Metal Recycling Sites (Mixed)<br>**Licence Status: Issued**<br>Issued: 14th September 1992<br>Last Modified: Not Supplied<br>Expires: Not Supplied<br>Suspended: Not Supplied<br>Revoked: Not Supplied<br>Surrendered: Not Supplied<br>IPPC Reference: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | A8NE (S) | 259 | 2 | 437662 410155 |
| 185 | **Licensed Waste Management Facilities (Locations)**<br>Licence Number: 60566<br>Location: Land/premises At, Shaw Lane, Carlton, Barnsley, South Yorkshire, S71 3HJ<br>Operator Name: Hennighan & Parkin<br>Operator Location: Not Supplied<br>Authority: Environment Agency - North East Region, Yorkshire Area<br>Site Category: Metal Recycling Sites (Vehicle Dismantlers)<br>**Licence Status: Modified**<br>Issued: 24th April 1992<br>Last Modified: 24th October 2007<br>Expires: Not Supplied<br>Suspended: Not Supplied<br>Revoked: Not Supplied<br>Surrendered: Not Supplied<br>IPPC Reference: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | A8NE (S) | 259 | 2 | 437662 410155 |
| 186 | **Licensed Waste Management Facilities (Locations)**<br>Licence Number: 103311<br>Location: D T S Yard, Shaw Lane, Carlton, Barnsley, South Yorkshire, S71 3HJ<br>Operator Name: S R Waste Recycling Ltd<br>Operator Location: Not Supplied<br>Authority: Environment Agency - North East Region, Yorkshire Area<br>Site Category: WEEE treatment facility<br>**Licence Status: Revoked**<br>Issued: 9th December 2011<br>Last Modified: Not Supplied<br>Expires: Not Supplied<br>Suspended: Not Supplied<br>Revoked: 5th September 2014<br>Surrendered: Not Supplied<br>IPPC Reference: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | A8NE (SE) | 310 | 2 | 437776 410122 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| 187 | **Licensed Waste Management Facilities (Locations)**<br>Licence Number: 60567<br>Location: Boulder Bridge Lane, Carlton, Barnsley, South Yorkshire, S71 3HJ<br>Operator Name: Roy Thornton Metals Ltd<br>Operator Location: Not Supplied<br>Authority: Environment Agency - North East Region, Yorkshire Area<br>Site Category: Metal Recycling Sites (Mixed)<br>**Licence Status: Issued**<br>Issued: 10th June 1992<br>Last Modified: Not Supplied<br>Expires: Not Supplied<br>Suspended: Not Supplied<br>Revoked: Not Supplied<br>Surrendered: Not Supplied<br>IPPC Reference: Not Supplied<br>Positional Accuracy: Located by supplier to within 100m | A18SE (NE) | 328 | 2 | 437800 410900 |
| 188 | **Licensed Waste Management Facilities (Locations)**<br>Licence Number: 60560<br>Location: Land/premises At, Pools Lane, Royston, Barnsley, South Yorkshire, S71 4BW<br>Operator Name: E J Lidster Construction Ltd<br>Operator Location: Not Supplied<br>Authority: Environment Agency - North East Region, Yorkshire Area<br>Site Category: Household, Commercial And Industrial Waste Landfills<br>**Licence Status: Issued**<br>Issued: 16th May 1984<br>Last Modified: Not Supplied<br>Expires: Not Supplied<br>Suspended: Not Supplied<br>Revoked: Not Supplied<br>Surrendered: Not Supplied<br>IPPC Reference: Not Supplied<br>Positional Accuracy: Located by supplier to within 100m | A18SW (NW) | 390 | 2 | 437300 410900 |
| 189 | **Licensed Waste Management Facilities (Locations)**<br>Licence Number: 401087<br>Location: Former Carlton Colliery Site, Shaw Lane, Carlton, Barnsley, South Yorkshire, S71 3HJ<br>Operator Name: Portward Homes Limited<br>Operator Location: Not Supplied<br>Authority: Environment Agency - North East Region, Yorkshire Area<br>Site Category: Use of waste in a deposit for recovery op<br>**Licence Status: Issued**<br>Issued: 19th November 2014<br>Last Modified: Not Supplied<br>Expires: Not Supplied<br>Suspended: Not Supplied<br>Revoked: Not Supplied<br>Surrendered: Not Supplied<br>IPPC Reference: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | A8NW (S) | 480 | 2 | 437471 409926 |
| | **Local Authority Landfill Coverage**<br>Name: Barnsley Metropolitan Borough Council - Has supplied landfill data | | 0 | 3 | 437605 410501 |
| 190 | **Local Authority Recorded Landfill Sites**<br>Location: Not Supplied<br>Reference: 100<br>Authority: Barnsley Metropolitan Borough Council, Environmental Health and Trading Standards<br>**Last Reported Status: Unknown**<br>Types of Waste: Not Supplied<br>Date of Closure: Not Supplied<br>Positional Accuracy: Positioned by the supplier<br>Boundary Quality: Moderate | A13SE (SE) | 117 | 3 | 437734 410310 |
| 191 | **Local Authority Recorded Landfill Sites**<br>Location: Not Supplied<br>Reference: 3<br>Authority: Barnsley Metropolitan Borough Council, Environmental Health and Trading Standards<br>**Last Reported Status: Unknown**<br>Types of Waste: Not Supplied<br>Date of Closure: Not Supplied<br>Positional Accuracy: Positioned by the supplier<br>Boundary Quality: Moderate | A13NW (NW) | 170 | 3 | 437494 410745 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| 192 | **Local Authority Recorded Landfill Sites**<br>Location: Not Supplied<br>Reference: 106<br>Authority: Barnsley Metropolitan Borough Council, Environmental Health and Trading Standards<br>**Last Reported Status:** **Unknown**<br>Types of Waste: Not Supplied<br>Date of Closure: Not Supplied<br>Positional Accuracy: Positioned by the supplier<br>Boundary Quality: Moderate | A18SW (NW) | 324 | 3 | 437364 410860 |
| 193 | **Local Authority Recorded Landfill Sites**<br>Location: Not Supplied<br>Reference: 89<br>Authority: Barnsley Metropolitan Borough Council, Environmental Health and Trading Standards<br>**Last Reported Status:** **Unknown**<br>Types of Waste: Not Supplied<br>Date of Closure: Not Supplied<br>Positional Accuracy: Positioned by the supplier<br>Boundary Quality: Moderate | A12NE (NW) | 367 | 3 | 437224 410805 |
| 194 | **Local Authority Recorded Landfill Sites**<br>Location: Not Supplied<br>Reference: 101<br>Authority: Barnsley Metropolitan Borough Council, Environmental Health and Trading Standards<br>**Last Reported Status:** **Unknown**<br>Types of Waste: Not Supplied<br>Date of Closure: Not Supplied<br>Positional Accuracy: Positioned by the supplier<br>Boundary Quality: Moderate | A12NE (NW) | 473 | 3 | 437083 410784 |
| 195 | **Local Authority Recorded Landfill Sites**<br>Location: Not Supplied<br>Reference: 95<br>Authority: Barnsley Metropolitan Borough Council, Environmental Health and Trading Standards<br>**Last Reported Status:** **Unknown**<br>Types of Waste: Not Supplied<br>Date of Closure: Not Supplied<br>Positional Accuracy: Positioned by the supplier<br>Boundary Quality: Moderate | A12NW (W) | 786 | 3 | 436736 410739 |
| 196 | **Potentially Infilled Land (Non-Water)**<br>Bearing Ref: S<br>Use: Unknown Filled Ground (Pit, quarry etc)<br>Date of Mapping: 1990 | A8NW (S) | 319 | - | 437576 410081 |
| 197 | **Potentially Infilled Land (Non-Water)**<br>Bearing Ref: S<br>Use: Unknown Filled Ground (Pit, quarry etc)<br>Date of Mapping: 1993 | A8NW (S) | 462 | - | 437510 409939 |
| 198 | **Potentially Infilled Land (Non-Water)**<br>Bearing Ref: W<br>Use: Unknown Filled Ground (Pit, quarry etc)<br>Date of Mapping: 1990 | A12NE (W) | 520 | - | 436984 410548 |
| 199 | **Potentially Infilled Land (Non-Water)**<br>Bearing Ref: E<br>Use: Unknown Filled Ground (Pit, quarry etc)<br>Date of Mapping: 1990 | A14SE (E) | 626 | - | 438330 410484 |
| 200 | **Potentially Infilled Land (Non-Water)**<br>Bearing Ref: W<br>Use: Unknown Filled Ground (Pit, quarry etc)<br>Date of Mapping: 1990 | A12SW (W) | 849 | - | 436698 410294 |
| 201 | **Potentially Infilled Land (Non-Water)**<br>Bearing Ref: S<br>Use: Unknown Filled Ground (Pit, quarry etc)<br>Date of Mapping: 1993 | A3NE (S) | 926 | - | 437608 409474 |
| 202 | **Potentially Infilled Land (Non-Water)**<br>Bearing Ref: N<br>Use: Unknown Filled Ground (Pit, quarry etc)<br>Date of Mapping: 1990 | A23SE (N) | 990 | - | 437884 411573 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| 203 | **Potentially Infilled Land (Water)**<br>Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc)<br>Date of Mapping: 1955 | A7NE (SW) | 491 | - | 437172 410086 |
| 204 | **Potentially Infilled Land (Water)**<br>Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc)<br>Date of Mapping: 1955 | A8NW (S) | 507 | - | 437486 409896 |
| 205 | **Potentially Infilled Land (Water)**<br>Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc)<br>Date of Mapping: 1955 | A8NW (S) | 543 | - | 437476 409861 |
| 206 | **Potentially Infilled Land (Water)**<br>Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc)<br>Date of Mapping: 1956 | A17NE (NW) | 959 | - | 437170 411466 |
| 207 | **Registered Landfill Sites**<br>Licence Holder: A Barraclough<br>Licence Reference: WD20 B 499<br>Site Location: Ex Railway Sidings At Shaw Lane, Carlton, Barnsley, South Yorkshire<br>Licence Easting: 437770<br>Licence Northing: 410270<br>Operator Location: 93 Weetshaw Lane, Shafton, BARNSLEY, South Yorkshire, S72 8PZ<br>Authority: Environment Agency - North East Region, Ridings Area<br>Site Category: Landfill<br>Max Input Rate: Large (Equal to or greater than 75,000 and less than 250,000 tonnes per year)<br>Waste Source Restrictions: No known restriction on source of waste<br>Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled<br>Dated: 1st November 1985<br>Preceded By Licence: Not Given<br>Superseded By Licence: Not Given<br>Positional Accuracy: Manually positioned to the address or location<br>Boundary Accuracy: Not Applicable<br>Authorised Waste: Construction And Demolition Wastes; Excavated Natural Materials $; Household + Commercial Waste; Ind. Non-Haz. Waste<br>Prohibited Waste: Asbestos; Biodegradable/Putrescible Waste; Food Waste; Liquids In Containers Over 4l Cap.; Slurry In Containers Over 4l Cap. | A13SE (SE) | 167 | 2 | 437770 410270 |
| 208 | **Registered Landfill Sites**<br>Licence Holder: E J Lidster Construction Ltd<br>Licence Reference: WD20 B 427 MOD 3<br>Site Location: Pools Lane, Royston, Barnsley, South Yorkshire<br>Licence Easting: 437340<br>Licence Northing: 410090<br>Operator Location: Arunden House, Lund Lane, Burton Green, BARNSLEY, South Yorkshire, S71 5PA<br>Authority: Environment Agency - North East Region, Ridings Area<br>Site Category: Landfill<br>Max Input Rate: Small (Equal to or greater than 10,000 and less than 25,000 tonnes per year)<br>Waste Source Restrictions: No known restriction on source of waste<br>Status: Site Closed<br>Dated: 16th May 1984<br>Preceded By Licence: Not Given<br>Superseded By Licence: Not Given<br>Positional Accuracy: Manually positioned to the address or location<br>Boundary Accuracy: Not Applicable<br>Authorised Waste: Construction And Demolition Wastes; Excav'N Waste, Soil, Subsoil; Ind. Non-Haz. Inert, Non-Flammable; Non-Haz. Household/Com. Waste<br>Prohibited Waste: All Forms Of Asbestos; Liq/Slurry In Drum/Cont'Rs > 4 L Cap'Y | A8NW (SW) | 374 | 2 | 437340 410090 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| 209 | **Registered Landfill Sites**<br>Licence Holder: Barnsley M.B.C.<br>Licence Reference: WD 2 B22<br>Site Location: Cudworth North Junction, (West Of Pools Dyke), Carlton, Barnsley, South Yorkshire<br>Licence Easting: 437600<br>Licence Northing: 411000<br>Operator Location: Central Offices, Kendray Street, Barnsley, South Yorkshire<br>Authority: Environment Agency - North East Region, Ridings Area<br>Site Category: Landfill<br>Max Input Rate: Undefined<br>Waste Source Restrictions: No known restriction on source of waste<br>Status: Record supersededSuperseded<br>Dated: 1st June 1989<br>Preceded By Licence: Not Given<br>Superseded By Licence: Not Given<br>Positional Accuracy: Manually positioned to the address or location<br>Boundary Accuracy: Not Applicable<br>Authorised Waste: Licenced Wastes Not To Hand | A18SW (N) | 390 | 2 | 437600 411000 |
| 210 | **Registered Landfill Sites**<br>Licence Holder: E Maw & Son<br>Licence Reference: WD20 B 417<br>Site Location: Cronkhill Lane, Carlton, Barnsley, South Yorkshire<br>Licence Easting: 437200<br>Licence Northing: 410850<br>Operator Location: Stud Farm, Carlton, BARNSLEY, South Yorkshire, S71 3EY<br>Authority: Environment Agency - North East Region, Ridings Area<br>Site Category: Landfill<br>Max Input Rate: Small (Equal to or greater than 10,000 and less than 25,000 tonnes per year)<br>Waste Source Restrictions: No known restriction on source of waste<br>Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled<br>Dated: 1st March 1984<br>Preceded By Licence: Not Given<br>Superseded By Licence: Not Given<br>Positional Accuracy: Manually positioned to the address or location<br>Boundary Accuracy: Not Applicable<br>Authorised Waste: Colliery Shale<br>Excavated Natural Materials $<br>Hardcore And Rubble<br>Prohibited Waste: Asbestos<br>Liquids In Containers Over 4l Cap.<br>Slurry In Containers Over 4l Cap. | A17SE (NW) | 414 | 2 | 437200 410850 |
| 211 | **Registered Landfill Sites**<br>Licence Holder: E Broad & C White<br>Licence Reference: WD20 B 513<br>Site Location: Cronkhill Lane/Church Hill, Royston, Barnsley, South Yorkshire<br>Licence Easting: 437050<br>Licence Northing: 410900<br>Operator Location: 4 Vicarage Lane, Royston, BARNSLEY, South Yorkshire, S71 4QY<br>Authority: Environment Agency - North East Region, Ridings Area<br>Site Category: Landfill<br>Max Input Rate: Large (Equal to or greater than 75,000 and less than 250,000 tonnes per year)<br>Waste Source Restrictions: No known restriction on source of waste<br>Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled<br>Dated: 1st March 1986<br>Preceded By Licence: Not Given<br>Superseded By Licence: Not Given<br>Positional Accuracy: Manually positioned to the address or location<br>Boundary Accuracy: Not Applicable<br>Authorised Waste: Hardcore/Build.Rubble/Concrete/Bricks<br>Soil/Subsoil<br>Prohibited Waste: All Forms In Asbestos<br>Liq/Slurry In Drums > 4 L Capacity<br>Liquid/Slurry In Drums > 4 L Capacity | A17SE (NW) | 562 | 2 | 437050 410900 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| 212 | **Registered Landfill Sites**<br>Licence Holder: B.D.R. Waste Disposal Ltd<br>Licence Reference: WD20 B1035<br>Site Location: Cudworth Landfill Site, East Of Pools Dyke, Cudworth, Barnsley, South Yorkshire<br>Licence Easting: 437800<br>Licence Northing: 411300<br>Operator Location: 2 The Embankment, Sovereign Street, LEEDS, West Yorkshire, LS1 4BG<br>Authority: Environment Agency - North East Region, Ridings Area<br>Site Category: Landfill<br>Max Input Rate: Small (Equal to or greater than 10,000 and less than 25,000 tonnes per year)<br>Waste Source Restrictions: No known restriction on source of waste<br>Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled<br>Dated: 1st August 1993<br>Preceded By Licence: WD 2 B 1<br>Superseded By Licence: Not Given<br>Positional Accuracy: Manually positioned to the address or location<br>Boundary Accuracy: Not Applicable<br>Authorised Waste: Untreated Dom/Commercial Waste<br>Prohibited Waste: Waste N.O.S. | A18NE (N) | 706 | 2 | 437800 411300 |
| 212 | **Registered Landfill Sites**<br>Licence Holder: Barnsley M.B.C.<br>Licence Reference: WD 2 B 1<br>Site Location: Cudworth North Jct, Shaw Lane, Carlton, Barnsley, South Yorkshire<br>Licence Easting: 437800<br>Licence Northing: 411300<br>Operator Location: Cleansing Div. Smithies La.Depot, Barnsley, South Yorkshire<br>Authority: Environment Agency - North East Region, Ridings Area<br>Site Category: Landfill<br>Max Input Rate: Very Large (Equal to or greater than 250,000 tonnes per year)<br>Waste Source Restrictions: No known restriction on source of waste<br>Status: Record supersededSuperseded<br>Dated: 1st March 1979<br>Preceded By Licence: Not Given<br>Superseded By Licence: WD20 B1035<br>Positional Accuracy: Manually positioned to the address or location<br>Boundary Accuracy: Not Applicable<br>Authorised Waste: Asbestos<br>Construction And Demolition Wastes<br>Food Processing Wastes/Starch<br>Household + Commercial Waste<br>Ind. Non-Haz. Inert, Non-Flammable<br>Ind. Non-Haz. Potentially Combustible<br>Industrial Effluent Treatment Sludge<br>Medical, Surgical, Veterinary Wastes<br>Metal Scrap<br>Old Cars<br>Other Industrial Wastes<br>Pharmaceutical/Cosmetic Products<br>Scrap Rubber (Including Tyres)<br>Sewage<br>Slag, Boiler/Flue Cleanings<br>Tar, Pitch, Bitumen, Asphalts<br>Vegetable And Other Oils<br>Prohibited Waste: Liquids In Containers Over 4l Cap.<br>Slurry In Containers Over 4l Cap. | A18NE (N) | 706 | 2 | 437800 411300 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| 213 | **Registered Landfill Sites**<br>Licence Holder: E Maw & Son<br>Licence Reference: WD20 B 457 MOD 1<br>Site Location: Royston Lane / Cronkhill Lane, Carlton, Barnsley, South Yorkshire<br>Licence Easting: 436650<br>Licence Northing: 410800<br>Operator Location: Stud Farm, Carlton, BARNSLEY, South Yorkshire, S71 3EY<br>Authority: Environment Agency - North East Region, Ridings Area<br>Site Category: Landfill<br>Max Input Rate: Medium (Equal to or greater than 25,000 and less than 75,000 tonnes per year)<br>Waste Source Restrictions: No known restriction on source of waste<br>Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled<br>Dated: 1st February 1985<br>Preceded By Licence: Not Given<br>Superseded By Licence: Not Given<br>Positional Accuracy: Manually positioned to the address or location<br>Boundary Accuracy: Not Applicable<br>Authorised Waste: Ash<br>Construction And Demolition Wastes<br>Excavated Natural Materials $<br>Prohibited Waste: Asbestos<br>Liquids In Containers Over 4l Cap.<br>Slurry In Containers Over 4l Cap. | A12NW (W) | 884 | 2 | 436650 410800 |
| 214 | **Registered Waste Transfer Sites**<br>Licence Holder: M E Meynell<br>Licence Reference: WD20 B 634 MOD 4<br>Site Location: M E Meynell, Land Off Shaw Lane, Carlton, Barnsley, South Yorkshire<br>Operator Location: 221 Wakefield Road, BARNSLEY, South Yorkshire, S71 3TP<br>Authority: Environment Agency - North East Region, Ridings Area<br>Site Category: Transfer<br>Max Input Rate: Very Small (Less than 10,000 tonnes per year)<br>Waste Source Restrictions: No known restriction on source of waste<br>Licence Status: Operational as far as is knownOperational<br>Dated: 1st June 1989<br>Preceded By Licence: Not Given<br>Superseded By Licence: Not Given<br>Positional Accuracy: Located by supplier to within 100m<br>Boundary Quality: Not Supplied<br>Authorised Waste: Electrical Scrap<br>Empty Metal Containers<br>Max.Waste Permitted By Licence<br>Metal Cored Cable<br>Motor Vehicle Batteries<br>Scrap Metal<br>Timber (Attached To Metalcomp'Ts)<br>Vehicles For Dismantling<br>Prohibited Waste: Liquid Wastes | A13SE (SE) | 244 | 2 | 437800 410200 |
| 214 | **Registered Waste Transfer Sites**<br>Licence Holder: D Thackeray<br>Licence Reference: WD20 B 466 MOD 1<br>Site Location: Shotties Island, Shaw Lane, Carlton, Barnsley, South Yorkshire<br>Operator Location: 28 Westgate, Monk Bretton, BARNSLEY, South Yorkshire, S71 2OJ<br>Authority: Environment Agency - North East Region, Ridings Area<br>Site Category: Transfer<br>Max Input Rate: Large (Equal to or greater than 75,000 and less than 250,000 tonnes per year)<br>Waste Source Restrictions: No known restriction on source of waste<br>Licence Status: Record supersededSuperseded<br>Dated: 1st March 1985<br>Preceded By Licence: Not Given<br>Superseded By Licence: WD20 B 466 MOD 5<br>Positional Accuracy: Located by supplier to within 100m<br>Boundary Quality: Not Supplied<br>Authorised Waste: Builders Rubble/Hardcore/Concrete<br>Construction And Demolition Wastes<br>Ind. Non-Haz. Waste Max.Stor<br>Non-Haz. Household + Commercial Waste<br>Road Excavations<br>Prohibited Waste: Asbestos<br>Biodegradable/Putrescible Waste<br>Liquid In Containers Over 4 L Cap'Y<br>Slurry In Containers Over 4 L Cap'Y | A13SE (SE) | 244 | 2 | 437800 410200 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| 215 | **Registered Waste Transfer Sites**<br>Licence Holder: Thornton Skip Hire<br>Licence Reference: WD20 B 310<br>Site Location: Thornton Skip Hire, Shaw Lane, Carlton, Barnsley, South Yorkshire<br>Operator Location: As Site Address<br>Authority: Environment Agency - North East Region, Ridings Area<br>Site Category: Transfer<br>Max Input Rate: Medium (Equal to or greater than 25,000 and less than 75,000 tonnes per year)<br>Waste Source Restrictions: No known restriction on source of waste<br>Licence Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled<br>Dated: 1st March 1981<br>Preceded By Licence: Not Given<br>Superseded By Licence: Not Given<br>Positional Accuracy: Located by supplier to within 100m<br>Boundary Quality: Not Supplied<br>Authorised Waste: Commercial Waste<br>Construction And Demolition Wastes<br>Ind. Non-Haz. Waste | A18SE (NE) | 328 | 2 | 437800 410900 |
| 216 | **Registered Waste Treatment or Disposal Sites**<br>Licence Holder: Wfs Metals Ltd<br>Licence Reference: WD20 B 938 MOD 3<br>Site Location: Wfs Metals Ltd, Boulder Bridge Lane, Carlton, Barnsley, South Yorkshire<br>Operator Location: Wombwell Lane, Stairfoot, Barnsley, South Yorkshire<br>Authority: Environment Agency - North East Region, Ridings Area<br>Site Category: Scrapyard<br>Max Input Rate: Small (Equal to or greater than 10,000 and less than 25,000 tonnes per year)<br>Waste Source Restrictions: No known restriction on source of waste<br>Licence Status: Operational as far as is knownOperational<br>Dated: 1st September 1998<br>Preceded By Licence: WD20 B 938 MOD 2<br>Superseded By Licence: Not Given<br>Positional Accuracy: Located by supplier to within 100m<br>Boundary Quality: Not Supplied<br>Authorised Waste: Ferrous Metal Scrap<br>Max.Waste Permitted By Licence<br>Non-Ferrous Metal Scrap<br>Prohibited Waste: Liquid Wastes<br>Waste N.O.S. | A13NW (N) | 0 | 2 | 437600 410570 |
| 216 | **Registered Waste Treatment or Disposal Sites**<br>Licence Holder: Trevor Wingley & Sons Ltd - W.F.S Metals Ltd<br>Licence Reference: WD20 B 938 MOD 2<br>Site Location: Wfs Metals Ltd, Boulder Bridge Lane, Carlton, Barnsley, South Yorkshire<br>Operator Location: Wombwell Lane, Stairfoot, Barnsley, South Yorkshire<br>Authority: Environment Agency - North East Region, Ridings Area<br>Site Category: Scrapyard<br>Max Input Rate: Small (Equal to or greater than 10,000 and less than 25,000 tonnes per year)<br>Waste Source Restrictions: No known restriction on source of waste<br>Licence Status: Record supersededSuperseded<br>Dated: 1st September 1993<br>Preceded By Licence: Not Given<br>Superseded By Licence: WD20 B 938 MOD 3<br>Positional Accuracy: Located by supplier to within 100m<br>Boundary Quality: Not Supplied<br>Authorised Waste: Ferrous Metal Scrap<br>Max.Waste Permitted By Licence<br>Motor Vehicle Batteries<br>Non-Ferrous Metal Scrap<br>Scrap Vehs/Cars/Light Comm. Max Stor.<br>Prohibited Waste: Liquid Wastes<br>Waste N.O.S. | A13NW (N) | 0 | 2 | 437600 410570 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| 216 | **Registered Waste Treatment or Disposal Sites**<br>Licence Holder: Parton & Allen<br>Licence Reference: WD20 B 647<br>Site Location: Parton & Allen, Land Off Boulder Bridge Lane, Carlton, Barnsley, South Yorkshire<br>Operator Location: 97 Darfield Road, Cudworth, BARNSLEY, South Yorkshire, S72 8HG<br>Authority: Environment Agency - North East Region, Ridings Area<br>Site Category: Scrapyard<br>Max Input Rate: Very Small (Less than 10,000 tonnes per year)<br>Waste Source Restrictions: No known restriction on source of waste<br>Licence Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled<br>Dated: 1st September 1992<br>Preceded By Licence: Not Given<br>Superseded By Licence: Not Given<br>Positional Accuracy: Approximate location provided by supplier<br>Boundary Quality: Not Supplied<br>Authorised Waste: Batteries Mstor; Scrap Tyres Mstor; Scrap Veh/Bus/Com.Veh/Trail. Mstor; Waste Oil Mstor<br>Prohibited Waste: Liquid Wastes | A13NW (N) | 0 | 2 | 437600 410595 |
| 216 | **Registered Waste Treatment or Disposal Sites**<br>Licence Holder: W.F.S. (Metals) Ltd<br>Licence Reference: WD20 B 626<br>Site Location: Wfs Metals Ltd, Boulder Bridge Lane, Carlton, Barnsley, South Yorkshire<br>Operator Location: As Site Address<br>Authority: Environment Agency - North East Region, Ridings Area<br>Site Category: Scrapyard<br>Max Input Rate: Very Large (Equal to or greater than 250,000 tonnes per year)<br>Waste Source Restrictions: No known restriction on source of waste<br>Licence Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled<br>Dated: 1st June 1989<br>Preceded By Licence: Not Given<br>Superseded By Licence: Not Given<br>Positional Accuracy: Located by supplier to within 100m<br>Boundary Quality: Not Supplied<br>Authorised Waste: Ferrous Metal Scrap; Non-Ferrous Metal Scrap<br>Prohibited Waste: Liquid Wastes | A13NW (N) | 0 | 2 | 437600 410570 |
| 216 | **Registered Waste Treatment or Disposal Sites**<br>Licence Holder: Wfs Metals Ltd<br>Licence Reference: WD20 B 636<br>Site Location: Wfs Metals Ltd, Boulder Bridge Lane, Carlton, Barnsley, South Yorkshire<br>Operator Location: Wombwell Lane, Stairfoot, Barnsley, South Yorkshire<br>Authority: Environment Agency - North East Region, Ridings Area<br>Site Category: Scrapyard<br>Max Input Rate: Medium (Equal to or greater than 25,000 and less than 75,000 tonnes per year)<br>Waste Source Restrictions: No known restriction on source of waste<br>Licence Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled<br>Dated: 1st May 1989<br>Preceded By Licence: Not Given<br>Superseded By Licence: Not Given<br>Positional Accuracy: Located by supplier to within 100m<br>Boundary Quality: Not Supplied<br>Authorised Waste: Batteries; Buses & Commercial Vehicles; Ferrous Metal Scrap; Non-Ferrous Metal Scrap<br>Prohibited Waste: Liquid Wastes | A13NW (N) | 0 | 2 | 437600 410570 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| 216 | **Registered Waste Treatment or Disposal Sites**<br>Licence Holder: G Ripley<br>Licence Reference: WD20 B 817 MOD 3<br>Site Location: G Ripley, Boulder Bridge Lane, Carlton, Barnsley, South Yorkshire<br>Operator Location: 182A Weetshaw Lane, Cudworth, BARNSLEY, South Yorkshire, S72 8BG<br>Authority: Environment Agency - North East Region, Ridings Area<br>Site Category: Scrapyard<br>Max Input Rate: Very Small (Less than 10,000 tonnes per year)<br>Waste Source Restrictions: No known restriction on source of waste<br>Licence Status: Operational ? / partially revokedPartially Revoked<br>Dated: 1st September 1992<br>Preceded By Licence: Not Given<br>Superseded By Licence: Not Given<br>Positional Accuracy: Approximate location provided by supplier<br>Boundary Quality: Not Supplied<br>Authorised Waste: Ferrous Metal Scrap<br>Max.Storage<br>Max.Waste Permitted By Licence<br>Non-Ferrous Metal Scrap<br>Scrap Vehicles/Parts<br>Prohibited Waste: Liquid Wastes | A13NW (N) | 3 | 2 | 437600 410600 |
| 217 | **Registered Waste Treatment or Disposal Sites**<br>Licence Holder: J Sykes<br>Licence Reference: WD20 B 737 MOD2<br>Site Location: J Sykes, Shaw Lane, Carlton, BARNSLEY, South Yorkshire, S71 3JH<br>Operator Location: As Site Address<br>Authority: Environment Agency - North East Region, Ridings Area<br>Site Category: Scrapyard<br>Max Input Rate: Very Small (Less than 10,000 tonnes per year)<br>Waste Source Restrictions: No known restriction on source of waste<br>Licence Status: Operational ? / licence suspendedSuspended<br>Dated: 1st March 1997<br>Preceded By Licence: WD20 B 737<br>Superseded By Licence: Not Given<br>Positional Accuracy: Located by supplier to within 100m<br>Boundary Quality: Not Supplied<br>Authorised Waste: Buses, Other Comm'L Vehicles<br>Ferrous Metal Scrap<br>Glass<br>Max.Storage In Licence<br>Max.Waste Permitted By Licence<br>Non-Ferrous Metal Scrap<br>Tyres<br>Prohibited Waste: Liquid Wastes | A13SW (S) | 7 | 2 | 437600 410400 |
| 217 | **Registered Waste Treatment or Disposal Sites**<br>Licence Holder: J Sykes<br>Licence Reference: WD20 B 737<br>Site Location: J Sykes, Shaw Lane, Carlton, BARNSLEY, South Yorkshire, S71 3JH<br>Operator Location: As Site Address<br>Authority: Environment Agency - North East Region, Ridings Area<br>Site Category: Scrapyard<br>Max Input Rate: Very Large (Equal to or greater than 250,000 tonnes per year)<br>Waste Source Restrictions: No known restriction on source of waste<br>Licence Status: Record superseded & licence suspendedSuperseded<br>Dated: 1st March 1993<br>Preceded By Licence: Not Given<br>Superseded By Licence: WD20 B 737 MOD2<br>Positional Accuracy: Located by supplier to within 100m<br>Boundary Quality: Not Supplied<br>Authorised Waste: Batteries<br>Buses, Other Comm'L Vehicles<br>Ferrous Metal Scrap<br>Glass<br>Max.Storage In Licence<br>Non-Ferrous Metal Scrap<br>Tyres<br>Prohibited Waste: Liquid Wastes | A13SW (S) | 7 | 2 | 437600 410400 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| 218 | **Registered Waste Treatment or Disposal Sites**<br>Licence Holder: Trevor Wigley & Son Ltd<br>Licence Reference: WD20 B 643 MOD 3<br>Site Location: Trevor Wigley & Son Ltd, Boulder Bridge Lane, Carlton, BARNSLEY, South Yorkshire, S71 3HJ<br>Operator Location: As Site Address<br>Authority: Environment Agency - North East Region, Ridings Area<br>Site Category: Scrapyard<br>Max Input Rate: Very Small (Less than 10,000 tonnes per year)<br>Waste Source Restrictions: No known restriction on source of waste<br>Licence Status: Operational as far as is knownOperational<br>Dated: 1st April 1997<br>Preceded By Licence: WD20 B 643<br>Superseded By Licence: Not Given<br>Positional Accuracy: Located by supplier to within 100m<br>Boundary Quality: Not Supplied<br>Authorised Waste: Max.Waste Permitted By Licence<br>Scrap Motor Vehicles Max.Stor<br>Prohibited Waste: Liquid Wastes<br>Waste N.O.S. | A13SE (E) | 14 | 2 | 437700 410500 |
| 218 | **Registered Waste Treatment or Disposal Sites**<br>Licence Holder: Trevor Wigley & Son Ltd<br>Licence Reference: WD20 B 643<br>Site Location: Trevor Wigley & Son Ltd, Boulder Bridge Lane, Carlton, BARNSLEY, South Yorkshire, S71 3HJ<br>Operator Location: As Site Address<br>Authority: Environment Agency - North East Region, Ridings Area<br>Site Category: Scrapyard<br>Max Input Rate: Very Small (Less than 10,000 tonnes per year)<br>Waste Source Restrictions: No known restriction on source of waste<br>Licence Status: Record supersededSuperseded<br>Dated: 1st November 1995<br>Preceded By Licence: WD20 B 643<br>Superseded By Licence: WD20 B 643 MOD 3<br>Positional Accuracy: Located by supplier to within 100m<br>Boundary Quality: Not Supplied<br>Authorised Waste: Max.Waste Permitted By Licence<br>Scrap Motor Vehicles M.Stor<br>Wet Cell Batteries M.Stor<br>Prohibited Waste: Liquid Wastes<br>Waste N.O.S. | A13SE (E) | 14 | 2 | 437700 410500 |
| 218 | **Registered Waste Treatment or Disposal Sites**<br>Licence Holder: Trevor Wigley & Son Ltd<br>Licence Reference: WD20 B 643<br>Site Location: Trevor Wigley & Son Ltd, Boulder Bridge Lane, Carlton, BARNSLEY, South Yorkshire, S71 3HJ<br>Operator Location: As Site Address<br>Authority: Environment Agency - North East Region, Ridings Area<br>Site Category: Scrapyard<br>Max Input Rate: Large (Equal to or greater than 75,000 and less than 250,000 tonnes per year)<br>Waste Source Restrictions: No known restriction on source of waste<br>Licence Status: Record supersededSuperseded<br>Dated: 1st June 1992<br>Preceded By Licence: Not Given<br>Superseded By Licence: WD20 B 643<br>Positional Accuracy: Located by supplier to within 100m<br>Boundary Quality: Not Supplied<br>Authorised Waste: Max.Storage<br>Scrap Veh./Buses/Commercials/Trailers<br>Prohibited Waste: Liquid Wastes | A13SE (E) | 14 | 2 | 437700 410500 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| 219 | **Registered Waste Treatment or Disposal Sites**<br>Licence Holder: P.V.S. (Barnsley) Ltd<br>Licence Reference: WD20 B 645 MOD 3<br>Site Location: P V S (Barnsley) Ltd, Boulder Bridge Lane, Carlton, BARNSLEY, South Yorkshire, S71 3HJ<br>Operator Location: Boulder Bridge Lane, Shaw Lane, Carlton, Barnsley, South Yorkshire<br>Authority: Environment Agency - North East Region, Ridings Area<br>Site Category: Scrapyard<br>Max Input Rate: Small (Equal to or greater than 10,000 and less than 25,000 tonnes per year)<br>Waste Source Restrictions: No known restriction on source of waste<br>Licence Status: Operational as far as is knownOperational<br>Dated: 1st March 1997<br>Preceded By Licence: WD20 B 645 MOD 1<br>Superseded By Licence: Not Given<br>Positional Accuracy: Located by supplier to within 100m<br>Boundary Quality: Not Supplied<br>Authorised Waste: Ferrous Scrap Metal Max.Stor<br>Max.Waste Permitted By Licence<br>Non-Ferrous Scrap Metal Max.Stor<br>Scrap Motor Vehicles Max.Stor<br>Tyres Max.Stor<br>Prohibited Waste: Liquid Wastes<br>Waste N.O.S. | A13SE (SE) | 23 | 2 | 437700 410400 |
| 219 | **Registered Waste Treatment or Disposal Sites**<br>Licence Holder: P.V.S. (Barnsley) Ltd<br>Licence Reference: WD20 B 645 MOD 1<br>Site Location: P V S (Barnsley) Ltd, Boulder Bridge Lane, Carlton, BARNSLEY, South Yorkshire, S71 3HJ<br>Operator Location: Boulder Bridge Lane, Shaw Lane, Carlton, Barnsley, South Yorkshire<br>Authority: Environment Agency - North East Region, Ridings Area<br>Site Category: Scrapyard<br>Max Input Rate: Small (Equal to or greater than 10,000 and less than 25,000 tonnes per year)<br>Waste Source Restrictions: No known restriction on source of waste<br>Licence Status: Record supersededSuperseded<br>Dated: 1st December 1995<br>Preceded By Licence: WD20 B 645<br>Superseded By Licence: WD20 B 645 MOD 3<br>Positional Accuracy: Located by supplier to within 100m<br>Boundary Quality: Not Supplied<br>Authorised Waste: Ferrous Scrap Metal Max.Stor<br>Max.Waste Permitted By Licence<br>Non-Ferrous Scrap Metal Max.Stor<br>Scrap Motor Vehicles Max.Stor<br>Tyres Max.Stor<br>Wet Cell Batteries Max.Stor<br>Prohibited Waste: Liquid Wastes<br>Waste N.O.S. | A13SE (SE) | 23 | 2 | 437700 410400 |
| 219 | **Registered Waste Treatment or Disposal Sites**<br>Licence Holder: James Wellbourne<br>Licence Reference: WD20 B 676 MOD 1<br>Site Location: J Welbourn, Boulder Bridge Lane, Carlton, Barnsley, South Yorkshire<br>Operator Location: 12 Cloisters Way, Monk Bretton, BARNSLEY, South Yorkshire, S71 2JN<br>Authority: Environment Agency - North East Region, Ridings Area<br>Site Category: Scrapyard<br>Max Input Rate: Very Small (Less than 10,000 tonnes per year)<br>Waste Source Restrictions: No known restriction on source of waste<br>Licence Status: Operational as far as is knownOperational<br>Dated: 1st June 1989<br>Preceded By Licence: Not Given<br>Superseded By Licence: Not Given<br>Positional Accuracy: Approximate location provided by supplier<br>Boundary Quality: Not Supplied<br>Authorised Waste: Max.Waste Permitted By Licence<br>Scrap Cars<br>Prohibited Waste: Liquid Wastes | A13SE (SE) | 23 | 2 | 437700 410400 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| 219 | **Registered Waste Treatment or Disposal Sites**<br>Licence Holder: Passenger Veh. Spares (Barnsley) Ltd<br>Licence Reference: WD20 B 645<br>Site Location: P V S (Barnsley) Ltd, Boulder Bridge Lane, Carlton, BARNSLEY, South Yorkshire, S71 3HJ<br>Operator Location: Boulder Bridge Lane, Shaw Lane, Carlton, Barnsley, South Yorkshire<br>Authority: Environment Agency - North East Region, Ridings Area<br>Site Category: Scrapyard<br>Max Input Rate: Very Small (Less than 10,000 tonnes per year)<br>Waste Source Restrictions: No known restriction on source of waste<br>Licence Status: Record supersededSuperseded<br>Dated: 1st April 1989<br>Preceded By Licence: Not Given<br>Superseded By Licence: WD20 B 645 MOD 1<br>Positional Accuracy: Located by supplier to within 100m<br>Boundary Quality: Not Supplied<br>Authorised Waste: Batteries<br>Ferrous Metal Scrap<br>Non-Ferrous Metal Scrap<br>Scrap Buses<br>Scrap Cars/Other Vehicles<br>Scrap Trailers<br>Scrap Tyres<br>Prohibited Waste: Liquid Wastes | A13SE (SE) | 23 | 2 | 437700 410400 |
| 220 | **Registered Waste Treatment or Disposal Sites**<br>Licence Holder: Parton & Allen<br>Licence Reference: WD20 B 644 MOD 1<br>Site Location: Parton & Allen, Land Off Boulder Bridge Lane, Carlton, Barnsley, South Yorkshire<br>Operator Location: 97 Darfield Road, Cudworth, BARNSLEY, South Yorkshire, S72 8HG<br>Authority: Environment Agency - North East Region, Ridings Area<br>Site Category: Scrapyard<br>Max Input Rate: Very Small (Less than 10,000 tonnes per year)<br>Waste Source Restrictions: No known restriction on source of waste<br>Licence Status: Operational as far as is knownOperational<br>Dated: 1st May 1989<br>Preceded By Licence: Not Given<br>Superseded By Licence: Not Given<br>Positional Accuracy: Approximate location provided by supplier<br>Boundary Quality: Not Supplied<br>Authorised Waste: Max.Waste Permitted By Licence<br>Scrap Buses, Cars, Vehicles, Trailers<br>Prohibited Waste: Liquid Wastes<br>Waste N.O.S. | A13NE (NE) | 43 | 2 | 437700 410600 |
| 221 | **Registered Waste Treatment or Disposal Sites**<br>Licence Holder: M C & K R Beckett T/A C K Beckett<br>Licence Reference: Wd20 B1122<br>Site Location: C K Beckett, Boulder Bridge Lane, Carlton, Barnsley, South Yorkshire, S71 3hj<br>Operator Location: C K Beckett, Boulder Bridge Lane, Carlton, Barnsley, South Yorkshire, S71 3hj<br>Authority: Environment Agency - North East Region, Ridings Area<br>Site Category: Scrapyard<br>Max Input Rate: Undefined<br>Waste Source Restrictions: No known restriction on source of waste<br>Licence Status: Operational as far as is knownOperational<br>Dated: 17th November 2000<br>Preceded By Licence: Not Given<br>Superseded By Licence: Not Given<br>Positional Accuracy: Located by supplier to within 100m<br>Boundary Quality: Not Supplied<br>Authorised Waste: Metal Waste/Scrap Metal (As In Post'98 E.A.Lics And Equivalent To 23.00.00)<br>New Licence, Wastes Not To Hand | A13NE (N) | 88 | 2 | 437650 410700 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| 221 | **Registered Waste Treatment or Disposal Sites**<br>Licence Holder: C K Beckett<br>Licence Reference: WD20 B 649 MOD 2<br>Site Location: C K Beckett, Boulder Bridge Lane, Carlton, BARNSLEY, South Yorkshire, S71 3HJ<br>Operator Location: 29 Firth Avenue, Cudworth, BARNSLEY, South Yorkshire, S72 8XA<br>Authority: Environment Agency - North East Region, Ridings Area<br>Site Category: Scrapyard<br>Max Input Rate: Very Small (Less than 10,000 tonnes per year)<br>Waste Source Restrictions: No known restriction on source of waste<br>Licence Status: Operational as far as is knownOperational<br>Dated: 1st April 1997<br>Preceded By Licence: WD20 B 649<br>Superseded By Licence: Not Given<br>Positional Accuracy: Located by supplier to within 100m<br>Boundary Quality: Not Supplied<br>Authorised Waste: Ferrous Metal Scrap<br>Max.Waste Permitted By Licence<br>Non-Ferrous Metal Scrap<br>Prohibited Waste: Liquid Wastes<br>Waste N.O.S. | A13NE (N) | 88 | 2 | 437650 410700 |
| 221 | **Registered Waste Treatment or Disposal Sites**<br>Licence Holder: Mr Whiting<br>Licence Reference: WD20 B 649<br>Site Location: C K Beckett, Boulder Bridge Lane, Carlton, BARNSLEY, South Yorkshire, S71 3HJ<br>Operator Location: 134 Katrina Grove, Featherstone, PONTEFRACT, West Yorkshire, WF7 5NU<br>Authority: Environment Agency - North East Region, Ridings Area<br>Site Category: Scrapyard<br>Max Input Rate: Very Small (Less than 10,000 tonnes per year)<br>Waste Source Restrictions: No known restriction on source of waste<br>Licence Status: Record supersededSuperseded<br>Dated: 1st October 1992<br>Preceded By Licence: Not Given<br>Superseded By Licence: WD20 B 649 MOD 2<br>Positional Accuracy: Located by supplier to within 100m<br>Boundary Quality: Not Supplied<br>Authorised Waste: Batteries Mstor<br>Scrap Tyres Mstor<br>Scrap Veh/Bus/Com.Veh/Trail. Mstor<br>Prohibited Waste: Liquid Wastes | A13NE (N) | 88 | 2 | 437650 410700 |
| 221 | **Registered Waste Treatment or Disposal Sites**<br>Licence Holder: C K Beckett<br>Licence Reference: WD20 B 775 MOD 2<br>Site Location: C K Beckett, Boulder Bridge Lane, Carlton, BARNSLEY, South Yorkshire, S71 3HJ<br>Operator Location: 29 Firth Avenue, Cudworth, BARNSLEY, South Yorkshire, S72 8XA<br>Authority: Environment Agency - North East Region, Ridings Area<br>Site Category: Scrapyard<br>Max Input Rate: Small (Equal to or greater than 10,000 and less than 25,000 tonnes per year)<br>Waste Source Restrictions: No known restriction on source of waste<br>Licence Status: Operational as far as is knownOperational<br>Dated: 1st April 1992<br>Preceded By Licence: Not Given<br>Superseded By Licence: Not Given<br>Positional Accuracy: Located by supplier to within 100m<br>Boundary Quality: Not Supplied<br>Authorised Waste: Elect.Switchgear/Motor/Transfom./Cable<br>Ferrous Metal Scrap<br>Fragmentised Televisions<br>Max.Storage<br>Max.Waste Permitted By Licence<br>Non-Ferrous Metal Scrap<br>Scrap Vehicles/Parts Etc<br>Prohibited Waste: Liquid Wastes | A13NE (N) | 88 | 2 | 437650 410700 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| 221 | **Registered Waste Treatment or Disposal Sites**<br>Licence Holder: W Conway & Sons<br>Licence Reference: WD20 B 637 MOD 2<br>Site Location: W Conway & Sons, Shaw Lane, Carlton, Barnsley, South Yorkshire<br>Operator Location: 243 The Beeches, Buton Road, Monk Bretton, BARNSLEY, South Yorkshire, S71 2QE<br>Authority: Environment Agency - North East Region, Ridings Area<br>Site Category: Scrapyard<br>Max Input Rate: Very Small (Less than 10,000 tonnes per year)<br>Waste Source Restrictions: No known restriction on source of waste<br>Licence Status: Operational as far as is knownOperational<br>Dated: 1st April 1997<br>Preceded By Licence: WD20 B 637 MOD 1<br>Superseded By Licence: Not Given<br>Positional Accuracy: Located by supplier to within 100m<br>Boundary Quality: Not Supplied<br>Authorised Waste: Cars Mstor; Ferrous Metal Scrap Mstor; Max.Waste Permitted By Licence; Non-Ferrous Metal Scrap Mstor; Other Commercial Vehicles Mstor; Scrap Buses Mstor; Scrap Tyres Mstor; Trailers Mstor<br>Prohibited Waste: Liquid Wastes | A13NE (NE) | 105 | 2 | 437700 410700 |
| 221 | **Registered Waste Treatment or Disposal Sites**<br>Licence Holder: W Conway & Sons<br>Licence Reference: WD20 B 637 MOD 1<br>Site Location: W Conway & Sons, Shaw Lane, Carlton, Barnsley, South Yorkshire<br>Operator Location: 243 The Beeches, Buton Road, Monk Bretton, BARNSLEY, South Yorkshire, S71 2QE<br>Authority: Environment Agency - North East Region, Ridings Area<br>Site Category: Scrapyard<br>Max Input Rate: Very Small (Less than 10,000 tonnes per year)<br>Waste Source Restrictions: No known restriction on source of waste<br>Licence Status: Record supersededSuperseded<br>Dated: 1st September 1992<br>Preceded By Licence: Not Given<br>Superseded By Licence: WD20 B 637 MOD 2<br>Positional Accuracy: Located by supplier to within 100m<br>Boundary Quality: Not Supplied<br>Authorised Waste: Batteries Mstor; Cars Mstor; Ferrous Metal Scrap Mstor; Max.Waste Permitted By Licence; Non-Ferrous Metal Scrap Mstor; Other Commercial Vehicles Mstor; Scrap Buses Mstor; Scrap Tyres Mstor; Trailers Mstor<br>Prohibited Waste: Liquid Wastes | A13NE (NE) | 105 | 2 | 437700 410700 |
| 222 | **Registered Waste Treatment or Disposal Sites**<br>Licence Holder: E Thornton<br>Licence Reference: WD20 B 882<br>Site Location: E Thornton, Boulder Bridge Lane, Carlton, Barnsley, South Yorkshire<br>Operator Location: 58 Lytham Avenue, Monk Bretton, BARNSLEY, South Yorkshire, S71 2RQ<br>Authority: Environment Agency - North East Region, Ridings Area<br>Site Category: Scrapyard<br>Max Input Rate: Very Small (Less than 10,000 tonnes per year)<br>Waste Source Restrictions: No known restriction on source of waste<br>Licence Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled<br>Dated: 1st September 1992<br>Preceded By Licence: Not Given<br>Superseded By Licence: Not Given<br>Positional Accuracy: Approximate location provided by supplier<br>Boundary Quality: Not Supplied<br>Authorised Waste: Ferrous Metal Scrap; Max.Storage Of Scrap Metal; Max.Storage Of Vehicles; Non-Ferrous Metal Scrap; Scrap Vehicles/Commercials/Trailers<br>Prohibited Waste: Liquid Wastes | A13NW (N) | 97 | 2 | 437600 410700 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| 222 | **Registered Waste Treatment or Disposal Sites**<br>Licence Holder: A H Hardwick<br>Licence Reference: WD20 B 697 MOD 2<br>Site Location: A H Hardwick, Boulder Bridge Lane, Carlton, Barnsley, South Yorkshire<br>Operator Location: 40 Engine Lane, Shafton, BARNSLEY, South Yorkshire, S72 8RE<br>Authority: Environment Agency - North East Region, Ridings Area<br>Site Category: Scrapyard<br>Max Input Rate: Very Small (Less than 10,000 tonnes per year)<br>Waste Source Restrictions: No known restriction on source of waste<br>Licence Status: Operational as far as is knownOperational<br>Dated: 1st March 1997<br>Preceded By Licence: WD20 B 697<br>Superseded By Licence: Not Given<br>Positional Accuracy: Located by supplier to within 100m<br>Boundary Quality: Not Supplied<br>Authorised Waste: Max.Waste Permitted By Licence<br>Scrap Tyres Mstor<br>Scrap Veh/Bus/Com.Veh. Mstor<br>Prohibited Waste: Liquid Wastes | A13NW (N) | 141 | 2 | 437580 410740 |
| 222 | **Registered Waste Treatment or Disposal Sites**<br>Licence Holder: A H Hardwick<br>Licence Reference: WD20 B 697<br>Site Location: A H Hardwick, Boulder Bridge Lane, Carlton, Barnsley, South Yorkshire<br>Operator Location: 40 Engine Lane, Shafton, BARNSLEY, South Yorkshire, S72 8RE<br>Authority: Environment Agency - North East Region, Ridings Area<br>Site Category: Scrapyard<br>Max Input Rate: Very Small (Less than 10,000 tonnes per year)<br>Waste Source Restrictions: No known restriction on source of waste<br>Licence Status: Record supersededSuperseded<br>Dated: 1st September 1992<br>Preceded By Licence: Not Given<br>Superseded By Licence: WD20 B 697 MOD 2<br>Positional Accuracy: Located by supplier to within 100m<br>Boundary Quality: Not Supplied<br>Authorised Waste: Batteries Mstor<br>Scrap Tyres Mstor<br>Scrap Veh/Bus/Com.Veh. Mstor<br>Prohibited Waste: Liquid Wastes | A13NW (N) | 141 | 2 | 437580 410740 |
| 223 | **Registered Waste Treatment or Disposal Sites**<br>Licence Holder: T Goodwin<br>Licence Reference: WD20 B 648 MOD 3<br>Site Location: T Goodwin, Boulder Bridge Lane, Carlton, Barnsley, South Yorkshire<br>Operator Location: Goodwins Acre, Wood Lane, Carlton, BARNSLEY, South Yorkshire, S71 3EW<br>Authority: Environment Agency - North East Region, Ridings Area<br>Site Category: Scrapyard<br>Max Input Rate: Very Small (Less than 10,000 tonnes per year)<br>Waste Source Restrictions: No known restriction on source of waste<br>Licence Status: Operational as far as is knownOperational<br>Dated: 1st February 1990<br>Preceded By Licence: Not Given<br>Superseded By Licence: Not Given<br>Positional Accuracy: Located by supplier to within 100m<br>Boundary Quality: Not Supplied<br>Authorised Waste: Max.Waste Permitted By Licence<br>Scrap Cars & Commercial Vehicles<br>Prohibited Waste: Liquid Wastes | A13NE (NE) | 154 | 2 | 437770 410700 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| 224 | **Registered Waste Treatment or Disposal Sites**<br>Licence Holder: M Gough<br>Licence Reference: WD20 B 658 MOD 2<br>Site Location: M Gough, Land Off Shaw Lane, Carlton, Barnsley, South Yorkshire<br>Operator Location: 22 Cromwell Mount, Ward Green, BARNSLEY, South Yorkshire, S70 6TA<br>Authority: Environment Agency - North East Region, Ridings Area<br>Site Category: Scrapyard<br>Max Input Rate: Very Small (Less than 10,000 tonnes per year)<br>Waste Source Restrictions: No known restriction on source of waste<br>Licence Status: OperationalOperational<br>Dated: 1st April 1989<br>Preceded By Licence: Not Given<br>Superseded By Licence: Not Given<br>Positional Accuracy: Located by supplier to within 100m<br>Boundary Quality: Not Supplied<br>Authorised Waste: Max.Waste Permitted By Licence<br>Scrap Cars<br>Prohibited Waste: Liquid Wastes | A13SE (SE) | 157 | 2 | 437800 410300 |
| 225 | **Registered Waste Treatment or Disposal Sites**<br>Licence Holder: R Thornton<br>Licence Reference: WD20 B 646<br>Site Location: R Thornton, Boulder Bridge Lane, Carlton, Barnsley, South Yorkshire<br>Operator Location: Willow Lodge, Halifax Road, Hoylandswaine, BARNSLEY, South Yorkshire, S30 6LT<br>Authority: Environment Agency - North East Region, Ridings Area<br>Site Category: Scrapyard<br>Max Input Rate: Medium (Equal to or greater than 25,000 and less than 75,000 tonnes per year)<br>Waste Source Restrictions: No known restriction on source of waste<br>Licence Status: Record supersededSuperseded<br>Dated: 30th October 1992<br>Preceded By Licence: Not Given<br>Superseded By Licence: WD20 B 646 MOD 1<br>Positional Accuracy: Approximate location provided by supplier<br>Boundary Quality: Not Supplied<br>Authorised Waste: Elect.Equip/Transform/Capac. Mstor<br>Ferrous Metal Scrap Mstor<br>Non-Ferrous Metal Scrap Mstor<br>Plastic From Cable Strip/Granul. Mstor<br>Wiring/Cable Mstor<br>Prohibited Waste: Liquid Wastes | A13NE (N) | 196 | 2 | 437700 410800 |
| 225 | **Registered Waste Treatment or Disposal Sites**<br>Licence Holder: R Thornton<br>Licence Reference: WD20 B 646 MOD 1<br>Site Location: R Thornton, Boulder Bridge Lane, Carlton, Barnsley, South Yorkshire<br>Operator Location: Willow Lodge, Halifax Road, Hoylandswaine, BARNSLEY, South Yorkshire, S30 6LT<br>Authority: Environment Agency - North East Region, Ridings Area<br>Site Category: Scrapyard<br>Max Input Rate: Medium (Equal to or greater than 25,000 and less than 75,000 tonnes per year)<br>Waste Source Restrictions: No known restriction on source of waste<br>Licence Status: Licence has completion certificateSurrendered<br>Dated: 1st October 1992<br>Preceded By Licence: WD20 B 646<br>Superseded By Licence: Not Given<br>Positional Accuracy: Approximate location provided by supplier<br>Boundary Quality: Not Supplied<br>Authorised Waste: Ferrous Metal Scrap Mstor<br>Non-Ferrous Metal Scrap Mstor<br>Plastic From Cable Strip/Granul. Mstor<br>Wiring/Cable Mstor<br>Prohibited Waste: Liquid Wastes | A13NE (N) | 196 | 2 | 437700 410800 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| 226 | **Registered Waste Treatment or Disposal Sites**<br>Licence Holder: T Thornton t/a Terry Thornton Commer'ls<br>Licence Reference: WD20 B1121 MOD 2<br>Site Location: Terry Thornton Commercials, Off Shaw Lane, Carlton, Barnsley, South Yorkshire<br>Operator Location: As Site Address<br>Authority: Environment Agency - North East Region, Ridings Area<br>Site Category: Scrapyard<br>Max Input Rate: Very Small (Less than 10,000 tonnes per year)<br>Waste Source Restrictions: No known restriction on source of waste<br>Licence Status: Operational as far as is knownOperational<br>Dated: 22nd November 1996<br>Preceded By Licence: Not Given<br>Superseded By Licence: Not Given<br>Positional Accuracy: Located by supplier to within 100m<br>Boundary Quality: Not Supplied<br>Authorised Waste: Max.Waste Permitted By Licence<br>Scrap Motor Vehicles Max.Stor<br>Prohibited Waste: Liquid Wastes<br>Waste N.O.S. | A13SW (S) | 205 | 2 | 437500 410200 |
| 227 | **Registered Waste Treatment or Disposal Sites**<br>Licence Holder: S Henighan & I Parkin<br>Licence Reference: WD20 B 623 MOD 1<br>Site Location: Carlton Car Breakers, Shaw Lane, Carlton, Barnsley, South Yorkshire<br>Operator Location: Greenacres, 155 Carr Lane, Cudworth, BARNSLEY, South Yorkshire, S72 8EH<br>Authority: Environment Agency - North East Region, Ridings Area<br>Site Category: Scrapyard<br>Max Input Rate: Very Small (Less than 10,000 tonnes per year)<br>Waste Source Restrictions: No known restriction on source of waste<br>Licence Status: Operational as far as is knownOperational<br>Dated: 1st May 1989<br>Preceded By Licence: Not Given<br>Superseded By Licence: Not Given<br>Positional Accuracy: Located by supplier to within 100m<br>Boundary Quality: Not Supplied<br>Authorised Waste: Max.Waste Permitted By Licence<br>Non-Ferrous Metal Scrap<br>Scrap Cars<br>Prohibited Waste: Liquid Wastes | A13SE (S) | 220 | 2 | 437700 410200 |
| 227 | **Registered Waste Treatment or Disposal Sites**<br>Licence Holder: M Gough<br>Licence Reference: WD20 B 657 MOD 1<br>Site Location: M Gough., Shaw Lane, Carlton, Barnsley, South Yorkshire<br>Operator Location: 22 Cromwell Mount, Ward Green, BARNSLEY, South Yorkshire, S70 6TA<br>Authority: Environment Agency - North East Region, Ridings Area<br>Site Category: Scrapyard<br>Max Input Rate: Very Small (Less than 10,000 tonnes per year)<br>Waste Source Restrictions: No known restriction on source of waste<br>Licence Status: Operational as far as is knownOperational<br>Dated: 1st April 1989<br>Preceded By Licence: Not Given<br>Superseded By Licence: Not Given<br>Positional Accuracy: Located by supplier to within 100m<br>Boundary Quality: Not Supplied<br>Authorised Waste: Max.Waste Permitted By Licence<br>Scrap Cars<br>Prohibited Waste: Liquid Wastes | A13SE (S) | 220 | 2 | 437700 410200 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| 228 | **Registered Waste Treatment or Disposal Sites**<br>Licence Holder: D Thackeray<br>Licence Reference: WD20 B 466 MOD 5<br>Site Location: Shotties Island, Shaw Lane, Carlton, Barnsley, South Yorkshire<br>Operator Location: 28 Westgate, Monk Bretton, BARNSLEY, South Yorkshire, S71 2OJ<br>Authority: Environment Agency - North East Region, Ridings Area<br>Site Category: Scrapyard - with Transfer Station<br>Max Input Rate: Small (Equal to or greater than 10,000 and less than 25,000 tonnes per year)<br>Waste Source Restrictions: No known restriction on source of waste<br>Licence Status: Operational as far as is knownOperational<br>Dated: 1st June 1993<br>Preceded By Licence: WD20 B 466 MOD 1<br>Superseded By Licence: Not Given<br>Positional Accuracy: Located by supplier to within 100m<br>Boundary Quality: Not Supplied<br>Authorised Waste: Asbestos Sheeting<br>Build.Rubble,Hardcore,Solid Concrete<br>Construction And Demolition Wastes<br>Excavation Waste<br>Max.Waste Permitted By Licence<br>Non-Haz. H'Hold/Com./Ind.Waste<br>Reclaimed Mat'Ls<br>Road Excavations<br>Prohibited Waste: Liquid Wastes<br>Slurry Wastes<br>Waste N.O.S. | A13SE (SE) | 244 | 2 | 437800 410200 |
| 228 | **Registered Waste Treatment or Disposal Sites**<br>Licence Holder: G Platts<br>Licence Reference: WD20 B 680<br>Site Location: G Platts, Land Off Shaw Lane, Carlton, Barnsley, South Yorkshire<br>Operator Location: Marlgrae House, The Brickyard, Shafton, BARNSLEY, South Yorkshire, S72 8QT<br>Authority: Environment Agency - North East Region, Ridings Area<br>Site Category: Scrapyard<br>Max Input Rate: Very Small (Less than 10,000 tonnes per year)<br>Waste Source Restrictions: No known restriction on source of waste<br>Licence Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled<br>Dated: 1st September 1991<br>Preceded By Licence: Not Given<br>Superseded By Licence: Not Given<br>Positional Accuracy: Approximate location provided by supplier<br>Boundary Quality: Not Supplied<br>Authorised Waste: Electrical Scrap<br>Ferrous & Non-Ferrous Scrap<br>Prohibited Waste: Elect.Equipment Containing Pcbs<br>Liquid Wastes | A13SE (SE) | 244 | 2 | 437800 410200 |
| 229 | **Registered Waste Treatment or Disposal Sites**<br>Licence Holder: P Lloyd<br>Licence Reference: WD20 B 638 MOD 1<br>Site Location: P Lloyd, Land Off Shaw Lane, Carlton, Barnsley, South Yorkshire<br>Operator Location: 14 Garden House Close, Monk Bretton, BARNSLEY, South Yorkshire, S71 2ED<br>Authority: Environment Agency - North East Region, Ridings Area<br>Site Category: Scrapyard<br>Max Input Rate: Very Small (Less than 10,000 tonnes per year)<br>Waste Source Restrictions: No known restriction on source of waste<br>Licence Status: Operational as far as is knownOperational<br>Dated: 1st November 1990<br>Preceded By Licence: Not Given<br>Superseded By Licence: Not Given<br>Positional Accuracy: Approximate location provided by supplier<br>Boundary Quality: Not Supplied<br>Authorised Waste: Ferrous Metal Scrap<br>Max.Waste Permitted By Licence<br>Non-Ferrous Metal Scrap<br>Other Commercial Vehicles<br>Scrap Buses<br>Scrap Cars<br>Scrap Tyres<br>Trailers | A8NE (S) | 319 | 2 | 437700 410100 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| 230 | **Registered Waste Treatment or Disposal Sites**<br>Licence Holder: Roy Thornton Metals Ltd<br>Licence Reference: WD20 B 624 MOD 1<br>Site Location: Roy Thornton Metals Ltd, Boulder Bridge Lane, Carlton, Barnsley, South Yorkshire<br>Operator Location: Willow Lodge, Halifax Road, Hoylandswaine, SHEFFIELD, South Yorkshire, S30 6LT<br>Authority: Environment Agency - North East Region, Ridings Area<br>Site Category: Scrapyard<br>Max Input Rate: Very Small (Less than 10,000 tonnes per year)<br>Waste Source Restrictions: No known restriction on source of waste<br>Licence Status: Operational as far as is knownOperational<br>Dated: 1st July 1997<br>Preceded By Licence: WD20 B 624<br>Superseded By Licence: Not Given<br>Positional Accuracy: Located by supplier to within 100m<br>Boundary Quality: Not Supplied<br>Authorised Waste: Ferrous Metal Scrap Max.Stor<br>Max.Waste Permitted By Licence<br>Non-Ferrous Metal Scrap Max.Stor<br>Plastic Ex Cable Strip/Gran. Max.Stor<br>Wiring/Cable Max.Stor<br>Prohibited Waste: Liquid Wastes<br>Waste N.O.S. | A18SE (NE) | 328 | 2 | 437800 410900 |
| 230 | **Registered Waste Treatment or Disposal Sites**<br>Licence Holder: Roy Thornton Metals Ltd<br>Licence Reference: WD20 B 624<br>Site Location: Roy Thornton Metals Ltd, Boulder Bridge Lane, Carlton, Barnsley, South Yorkshire<br>Operator Location: The Old Brickworks, Stonehouse, GLOUCESTER, Gloucestershire, GL10 2LR<br>Authority: Environment Agency - North East Region, Ridings Area<br>Site Category: Scrapyard<br>Max Input Rate: Medium (Equal to or greater than 25,000 and less than 75,000 tonnes per year)<br>Waste Source Restrictions: No known restriction on source of waste<br>Licence Status: Record supersededSuperseded<br>Dated: 1st June 1992<br>Preceded By Licence: Not Given<br>Superseded By Licence: WD20 B 624 MOD 1<br>Positional Accuracy: Approximate location provided by supplier<br>Boundary Quality: Not Supplied<br>Authorised Waste: Ferrous Metal Scrap<br>Max.Storage<br>Non-Ferrous Metal Scrap<br>Scrap Rubber<br>Prohibited Waste: Liquid Wastes | A18SE (NE) | 328 | 2 | 437800 410900 |
| 231 | **Registered Waste Treatment or Disposal Sites**<br>Licence Holder: T Thornton (Comms)<br>Licence Reference: WD20 B 876<br>Site Location: Terry Thornton Commercials, Off Shaw Lane, Carlton, Barnsley, South Yorkshire<br>Operator Location: 31 Well Lane, Monk Bretton, BARNSLEY, South Yorkshire, S71 2EF<br>Authority: Environment Agency - North East Region, Ridings Area<br>Site Category: Scrapyard<br>Max Input Rate: Medium (Equal to or greater than 25,000 and less than 75,000 tonnes per year)<br>Waste Source Restrictions: No known restriction on source of waste<br>Licence Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled<br>Dated: 1st September 1992<br>Preceded By Licence: Not Given<br>Superseded By Licence: Not Given<br>Positional Accuracy: Located by supplier to within 100m<br>Boundary Quality: Not Supplied<br>Authorised Waste: Batteries Mstor<br>Ferrous Metal Scrap<br>Max.Storage Of Metal Scrap<br>Max.Storage Of Vehicles<br>Non-Ferrous Metal Scrap<br>Scrap Vehicles/Commercials/Trailers<br>Tyres Mstor<br>Prohibited Waste: Liquid Wastes | A8NE (S) | 434 | 2 | 437800 410000 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| 232 | **Control of Major Accident Hazards Sites (COMAH)**<br>Name: Manor Bakeries Ltd<br>Location: Fish Dam Lane, Barnsley, South Yorkshire, S71 3HQ<br>Reference: 1021665<br>Type: Lower Tier<br>**Status: Active**<br>Positional Accuracy: Automatically positioned to the address | A7SW (SW) | 929 | 5 | 436894 409742 |
| 233 | **Notification of Installations Handling Hazardous Substances (NIHHS)**<br>Name: Manor Bakeries Limited<br>Location: Fish Dam Lane, Carlton, BARNSLEY, South Yorkshire, S71 3HQ<br>**Status: Not Active**<br>Positional Accuracy: Automatically positioned to the road within the address | A7SW (SW) | 933 | 5 | 436894 409737 |
| 234 | **Planning Hazardous Substance Consents**<br>Name: Manor Bakeries Ltd (T/A Lyons Cakes)<br>Location: Fish Dam Lane, Carlton, Barnsley, South Yorkshire, S71 3hq<br>Authority: Barnsley Metropolitan Borough Council, Planning Department<br>Application Ref: Hsc/92/1<br>Hazardous Substance: Liquefied extremely flammable gas (including LPG) and natural gas (whether liquefied or not)<br>Maximum Quantity: 150<br>Application date: 29th June 1992<br>**Decision: Deemed Consent GrantedGranted**<br>Positional Accuracy: Manually positioned to the address or location | A7SW (SW) | 924 | 6 | 436883 409760 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| | **BGS 1:625,000 Solid Geology**<br>Description: Pennine Middle Coal Measures Formation And South Wales Middle Coal Measures Formation (Undifferentiated) | A13SE (SW) | 0 | 1 | 437605 410501 |
| | **BGS Estimated Soil Chemistry**<br>Source: British Geological Survey, National Geoscience Information Service<br>Soil Sample Type: Rural Soil<br>Arsenic Concentration: 15 - 25 mg/kg<br>Cadmium Concentration: <1.8 mg/kg<br>Chromium Concentration: 60 - 90 mg/kg<br>Lead Concentration: <100 mg/kg<br>Nickel Concentration: 15 - 30 mg/kg | A13SE (SW) | 0 | 1 | 437605 410501 |
| | **BGS Estimated Soil Chemistry**<br>Source: British Geological Survey, National Geoscience Information Service<br>Soil Sample Type: Rural Soil<br>Arsenic Concentration: 15 - 25 mg/kg<br>Cadmium Concentration: <1.8 mg/kg<br>Chromium Concentration: 90 - 120 mg/kg<br>Lead Concentration: <100 mg/kg<br>Nickel Concentration: 30 - 45 mg/kg | A18SE (N) | 387 | 1 | 437605 411000 |
| | **BGS Estimated Soil Chemistry**<br>Source: British Geological Survey, National Geoscience Information Service<br>Soil Sample Type: Rural Soil<br>Arsenic Concentration: <15 mg/kg<br>Cadmium Concentration: <1.8 mg/kg<br>Chromium Concentration: 60 - 90 mg/kg<br>Lead Concentration: <100 mg/kg<br>Nickel Concentration: 15 - 30 mg/kg | A8NE (SE) | 440 | 1 | 437822 410000 |
| | **BGS Estimated Soil Chemistry**<br>Source: British Geological Survey, National Geoscience Information Service<br>Soil Sample Type: Rural Soil<br>Arsenic Concentration: <15 mg/kg<br>Cadmium Concentration: <1.8 mg/kg<br>Chromium Concentration: 90 - 120 mg/kg<br>Lead Concentration: <100 mg/kg<br>Nickel Concentration: 15 - 30 mg/kg | A12SE (W) | 503 | 1 | 437000 410501 |
| | **BGS Estimated Soil Chemistry**<br>Source: British Geological Survey, National Geoscience Information Service<br>Soil Sample Type: Rural Soil<br>Arsenic Concentration: 15 - 25 mg/kg<br>Cadmium Concentration: <1.8 mg/kg<br>Chromium Concentration: 60 - 90 mg/kg<br>Lead Concentration: 100 - 200 mg/kg<br>Nickel Concentration: 15 - 30 mg/kg | A17SE (NW) | 664 | 1 | 437000 411000 |
| | **BGS Estimated Soil Chemistry**<br>Source: British Geological Survey, National Geoscience Information Service<br>Soil Sample Type: Rural Soil<br>Arsenic Concentration: 15 - 25 mg/kg<br>Cadmium Concentration: <1.8 mg/kg<br>Chromium Concentration: 90 - 120 mg/kg<br>Lead Concentration: <100 mg/kg<br>Nickel Concentration: 30 - 45 mg/kg | A7NE (SW) | 775 | 1 | 436934 409930 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| | **BGS Estimated Soil Chemistry**<br>Source: British Geological Survey, National Geoscience Information Service<br>Soil Sample Type: Rural Soil<br>Arsenic Concentration: <15 mg/kg<br>Cadmium Concentration: <1.8 mg/kg<br>Chromium Concentration: 90 - 120 mg/kg<br>Lead Concentration: <100 mg/kg<br>Nickel Concentration: 15 - 30 mg/kg | A7NW (SW) | 946 | 1 | 436694 410000 |
| 235 | **BGS Recorded Mineral Sites**<br>Site Name: Carlton Main Colliery Clay Pit<br>Location: , Carlton, Barnsley, South Yorkshire<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 26022<br>Type: Opencast<br>**Status: Ceased**<br>Operator: Not Supplied<br>Operator Location: Not Supplied<br>Periodic Type: Carboniferous<br>Geology: Pennine Middle Coal Measures Formation<br>Commodity: Common Clay and Shale<br>Positional Accuracy: Located by supplier to within 10m | A8NW (S) | 462 | 1 | 437496 409940 |
| 236 | **BGS Recorded Mineral Sites**<br>Site Name: North Field<br>Location: , Shafton, Barnsley, Yorkshire<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 102766<br>Type: Opencast<br>**Status: Ceased**<br>Operator: Not Supplied<br>Operator Location: Not Supplied<br>Periodic Type: Carboniferous<br>Geology: Glass Houghton Rock<br>Commodity: Sandstone<br>Positional Accuracy: Located by supplier to within 10m | A14SW (E) | 514 | 1 | 438219 410457 |
| 237 | **BGS Recorded Mineral Sites**<br>Site Name: Cronk Hill<br>Location: Cronk Hill Lane, Carlton, Barnsley, South Yorkshire<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 26006<br>Type: Opencast<br>**Status: Ceased**<br>Operator: Not Supplied<br>Operator Location: Not Supplied<br>Periodic Type: Carboniferous<br>Geology: Pennine Middle Coal Measures Formation<br>Commodity: Sandstone<br>Positional Accuracy: Located by supplier to within 10m | A12NE (W) | 540 | 1 | 436964 410542 |
| 238 | **BGS Recorded Mineral Sites**<br>Site Name: Carlton Main Colliery<br>Location: , Carlton, Barnsley, South Yorkshire<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 26021<br>Type: Underground<br>**Status: Ceased**<br>Operator: Not Supplied<br>Operator Location: Not Supplied<br>Periodic Type: Carboniferous<br>Geology: Pennine Middle Coal Measures Formation<br>Commodity: Coal - Deep<br>Positional Accuracy: Located by supplier to within 10m | A8SE (S) | 628 | 1 | 437610 409774 |
| 239 | **BGS Recorded Mineral Sites**<br>Site Name: Carlton<br>Location: Cronkhill Lane, Carlton, Wakefield, Yorkshire<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 103061<br>Type: Opencast<br>**Status: Ceased**<br>Operator: Not Supplied<br>Operator Location: Not Supplied<br>Periodic Type: Carboniferous<br>Geology: Oaks Rock<br>Commodity: Sand<br>Positional Accuracy: Located by supplier to within 10m | A12SW (W) | 849 | 1 | 436707 410266 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| 240 | **BGS Recorded Mineral Sites**<br>Site Name: Lidgate Occs<br>Location: , Shafton, Royston, South Yorkshire<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 235316<br>Type: Opencast<br>**Status: Ceased**<br>Operator: Not Supplied<br>Operator Location: Not Supplied<br>Periodic Type: Carboniferous<br>Geology: Sharlston Top Coal (South And West Yorkshire)<br>Commodity: Coal - Surface Mined<br>Positional Accuracy: Located by supplier to within 10m | A19SE (NE) | 929 | 1 | 438479 411024 |
| | **BGS Measured Urban Soil Chemistry**<br>No data available | | | | |
| | **BGS Urban Soil Chemistry Averages**<br>No data available | | | | |
| | **Coal Mining Affected Areas**<br>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. | A13SE (SW) | 0 | 7 | 437605 410501 |
| | **Mining Instability**<br>Mining Evidence: Inconclusive Coal Mining<br>Source: Ove Arup & Partners<br>Boundary Quality: As Supplied | A13SE (SW) | 0 | - | 437605 410501 |
| | **Non Coal Mining Areas of Great Britain**<br>Risk: Highly Unlikely<br>Source: British Geological Survey, National Geoscience Information Service | A13SE (SW) | 0 | 1 | 437605 410501 |
| | **Non Coal Mining Areas of Great Britain**<br>Risk: Highly Unlikely<br>Source: British Geological Survey, National Geoscience Information Service | A13SW (SW) | 158 | 1 | 437396 410369 |
| | **Non Coal Mining Areas of Great Britain**<br>Risk: Highly Unlikely<br>Source: British Geological Survey, National Geoscience Information Service | A13NE (NE) | 213 | 1 | 437872 410624 |
| | **Potential for Collapsible Ground Stability Hazards**<br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service | A13NE (NE) | 0 | 1 | 437637 410515 |
| | **Potential for Collapsible Ground Stability Hazards**<br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service | A13SE (SW) | 0 | 1 | 437605 410501 |
| | **Potential for Compressible Ground Stability Hazards**<br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service | A13SE (SW) | 0 | 1 | 437605 410501 |
| | **Potential for Compressible Ground Stability Hazards**<br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service | A13SW (W) | 0 | 1 | 437559 410487 |
| | **Potential for Compressible Ground Stability Hazards**<br>Hazard Potential: Moderate<br>Source: British Geological Survey, National Geoscience Information Service | A13NE (NE) | 0 | 1 | 437637 410515 |
| | **Potential for Compressible Ground Stability Hazards**<br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service | A13SW (W) | 46 | 1 | 437479 410471 |
| | **Potential for Compressible Ground Stability Hazards**<br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service | A13SW (SW) | 138 | 1 | 437409 410398 |
| | **Potential for Compressible Ground Stability Hazards**<br>Hazard Potential: Moderate<br>Source: British Geological Survey, National Geoscience Information Service | A13SE (SE) | 166 | 1 | 437817 410304 |
| | **Potential for Compressible Ground Stability Hazards**<br>Hazard Potential: Moderate<br>Source: British Geological Survey, National Geoscience Information Service | A13NE (NE) | 243 | 1 | 437780 410812 |
| | **Potential for Ground Dissolution Stability Hazards**<br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service | A13SE (SW) | 0 | 1 | 437605 410501 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| | **Potential for Landslide Ground Stability Hazards**<br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service | A13SE (SW) | 0 | 1 | 437605 410501 |
| | **Potential for Landslide Ground Stability Hazards**<br>Hazard Potential: Low<br>Source: British Geological Survey, National Geoscience Information Service | A13NE (E) | 83 | 1 | 437773 410531 |
| | **Potential for Landslide Ground Stability Hazards**<br>Hazard Potential: Moderate<br>Source: British Geological Survey, National Geoscience Information Service | A13NE (NE) | 96 | 1 | 437765 410574 |
| | **Potential for Landslide Ground Stability Hazards**<br>Hazard Potential: Low<br>Source: British Geological Survey, National Geoscience Information Service | A13NE (E) | 160 | 1 | 437831 410582 |
| | **Potential for Landslide Ground Stability Hazards**<br>Hazard Potential: Low<br>Source: British Geological Survey, National Geoscience Information Service | A13NE (N) | 206 | 1 | 437630 410818 |
| | **Potential for Running Sand Ground Stability Hazards**<br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service | A13SE (SW) | 0 | 1 | 437605 410501 |
| | **Potential for Running Sand Ground Stability Hazards**<br>Hazard Potential: Low<br>Source: British Geological Survey, National Geoscience Information Service | A13NE (NE) | 0 | 1 | 437637 410515 |
| | **Potential for Running Sand Ground Stability Hazards**<br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service | A13NE (E) | 83 | 1 | 437773 410531 |
| | **Potential for Running Sand Ground Stability Hazards**<br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service | A13SE (S) | 116 | 1 | 437641 410296 |
| | **Potential for Running Sand Ground Stability Hazards**<br>Hazard Potential: Low<br>Source: British Geological Survey, National Geoscience Information Service | A13SE (SE) | 166 | 1 | 437817 410304 |
| | **Potential for Running Sand Ground Stability Hazards**<br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service | A13SW (S) | 213 | 1 | 437548 410186 |
| | **Potential for Running Sand Ground Stability Hazards**<br>Hazard Potential: Low<br>Source: British Geological Survey, National Geoscience Information Service | A13NE (NE) | 243 | 1 | 437780 410812 |
| | **Potential for Shrinking or Swelling Clay Ground Stability Hazards**<br>Hazard Potential: Low<br>Source: British Geological Survey, National Geoscience Information Service | A13NE (NE) | 0 | 1 | 437637 410515 |
| | **Potential for Shrinking or Swelling Clay Ground Stability Hazards**<br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service | A13SE (SW) | 0 | 1 | 437605 410501 |
| | **Potential for Shrinking or Swelling Clay Ground Stability Hazards**<br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service | A13SE (E) | 37 | 1 | 437739 410457 |
| | **Potential for Shrinking or Swelling Clay Ground Stability Hazards**<br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service | A13NE (E) | 38 | 1 | 437735 410507 |
| | **Potential for Shrinking or Swelling Clay Ground Stability Hazards**<br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service | A13NE (E) | 51 | 1 | 437734 410514 |
| | **Potential for Shrinking or Swelling Clay Ground Stability Hazards**<br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service | A13NE (NE) | 73 | 1 | 437740 410579 |
| | **Potential for Shrinking or Swelling Clay Ground Stability Hazards**<br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service | A13NE (E) | 160 | 1 | 437831 410582 |
| | **Radon Potential - Radon Affected Areas**<br>Affected Area: The property is in an Intermediate probability radon area (5 to 10% of homes are estimated to be at or above the Action Level).<br>Source: British Geological Survey, National Geoscience Information Service | A13SE (SW) | 0 | 1 | 437605 410501 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| | **Radon Potential - Radon Affected Areas**<br>Affected Area: The property is in an Intermediate probability radon area (1 to 3% of homes are estimated to be at or above the Action Level).<br>Source: British Geological Survey, National Geoscience Information Service | A13NE (NE) | 0 | 1 | 437675 410551 |
| | **Radon Potential - Radon Affected Areas**<br>Affected Area: The property is in a Lower probability radon area (less than 1% of homes are estimated to be at or above the Action Level).<br>Source: British Geological Survey, National Geoscience Information Service | A13SE (E) | 0 | 1 | 437675 410501 |
| | **Radon Potential - Radon Protection Measures**<br>Protection Measure: Basic radon protective measures are necessary in the construction of new dwellings or extensions<br>Source: British Geological Survey, National Geoscience Information Service | A13SE (SW) | 0 | 1 | 437605 410501 |
| | **Radon Potential - Radon Protection Measures**<br>Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions<br>Source: British Geological Survey, National Geoscience Information Service | A13NE (NE) | 0 | 1 | 437675 410551 |
| | **Radon Potential - Radon Protection Measures**<br>Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions<br>Source: British Geological Survey, National Geoscience Information Service | A13SE (E) | 0 | 1 | 437675 410501 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| 241 | **Contemporary Trade Directory Entries**<br>Name: Aluminium Recycling (Uk) Ltd<br>Location: Shaw Lane, Carlton, Barnsley, South Yorkshire, S71 3HJ<br>Classification: Scrap Metal Merchants<br>**Status: Inactive**<br>Positional Accuracy: Automatically positioned to the address | A13NE (NE) | 0 | - | 437649 410529 |
| 242 | **Contemporary Trade Directory Entries**<br>Name: Mad Metals<br>Location: Goodwin Yard,Shaw La, Carlton, Barnsley, South Yorkshire, S71 3HJ<br>Classification: Scrap Metal Merchants<br>**Status: Inactive**<br>Positional Accuracy: Manually positioned within the geographical locality | A13SE (SE) | 8 | - | 437663 410409 |
| 242 | **Contemporary Trade Directory Entries**<br>Name: P V S Barnsley Ltd<br>Location: Shaw Lane, Carlton, Barnsley, South Yorkshire, S71 3HJ<br>Classification: Salvage Dealers<br>**Status: Active**<br>Positional Accuracy: Automatically positioned to the address | A13SE (SE) | 8 | - | 437663 410409 |
| 242 | **Contemporary Trade Directory Entries**<br>Name: Astra Building & Garden Supplies<br>Location: Boulder Bridge,Shaw Lane, Carlton, Barnsley, South Yorkshire, S71 3HJ<br>Classification: Sand, Gravel & Other Aggregates<br>**Status: Active**<br>Positional Accuracy: Manually positioned within the geographical locality | A13SE (SE) | 8 | - | 437663 410409 |
| 242 | **Contemporary Trade Directory Entries**<br>Name: D T S Waste<br>Location: Shaw La, Carlton, Barnsley, South Yorkshire, S71 3HJ<br>Classification: Waste Merchants<br>**Status: Inactive**<br>Positional Accuracy: Manually positioned within the geographical locality | A13SE (SE) | 8 | - | 437663 410409 |
| 243 | **Contemporary Trade Directory Entries**<br>Name: T Thornton<br>Location: Shaw Lane, Carlton, Barnsley, South Yorkshire, S71 3HJ<br>Classification: Commercial Vehicle Dealers<br>**Status: Inactive**<br>Positional Accuracy: Automatically positioned to the address | A13NE (NE) | 34 | - | 437695 410590 |
| 244 | **Contemporary Trade Directory Entries**<br>Name: William Firth & Son Ltd<br>Location: Boulder Bridge, Shaw Lane, Carlton, Barnsley, S71 3HJ<br>Classification: Scrap Metal Merchants<br>**Status: Inactive**<br>Positional Accuracy: Automatically positioned to the address | A13NE (N) | 42 | - | 437608 410645 |
| 244 | **Contemporary Trade Directory Entries**<br>Name: Geoff Ripley & Son Ltd<br>Location: Boulder Bridge, Shaw Lane, Carlton, Barnsley, South Yorkshire, S71 3HJ<br>Classification: Commercial Vehicle Dealers<br>**Status: Active**<br>Positional Accuracy: Automatically positioned to the address | A13NE (N) | 42 | - | 437608 410645 |
| 244 | **Contemporary Trade Directory Entries**<br>Name: Caulfield Concrete Products<br>Location: Boulder Bridge, Shaw Lane, Carlton, Barnsley, S71 3HJ<br>Classification: Fencing Manufacturers<br>**Status: Active**<br>Positional Accuracy: Automatically positioned to the address | A13NE (N) | 42 | - | 437608 410645 |
| 245 | **Contemporary Trade Directory Entries**<br>Name: A H Hardwick<br>Location: Shaw Lane, Carlton, Barnsley, South Yorkshire, S71 3HJ<br>Classification: Commercial Vehicle Breakdown & Recovery Services<br>**Status: Inactive**<br>Positional Accuracy: Automatically positioned to the address | A13SE (S) | 105 | - | 437639 410307 |
| 245 | **Contemporary Trade Directory Entries**<br>Name: A H Hardwick<br>Location: Shaw Lane, Carlton, Barnsley, South Yorkshire, S71 3HJ<br>Classification: Commercial Vehicle Dealers<br>**Status: Inactive**<br>Positional Accuracy: Automatically positioned to the address | A13SE (S) | 106 | - | 437639 410307 |
| 245 | **Contemporary Trade Directory Entries**<br>Name: Milton Gough'S<br>Location: Shaw Lane, Carlton, Barnsley, South Yorkshire, S71 3HJ<br>Classification: Car Breakdown & Recovery Services<br>**Status: Active**<br>Positional Accuracy: Automatically positioned to the address | A13SE (S) | 106 | - | 437639 410307 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| 245 | **Contemporary Trade Directory Entries**<br>Name: Trevor Wigley & Son Bus Ltd<br>Location: Boulder Bridge, Shaw Lane, Carlton, Barnsley, South Yorkshire, S71 3HJ<br>Classification: Commercial Vehicle Servicing, Repairs, Parts & Accessories<br>**Status: Inactive**<br>Positional Accuracy: Automatically positioned in the proximity of the address | A13SE (S) | 106 | - | 437639 410307 |
| 245 | **Contemporary Trade Directory Entries**<br>Name: Roy Thornton Metals Ltd<br>Location: Boulder Bridge, Shaw Lane, Carlton, Barnsley, South Yorkshire, S71 3HJ<br>Classification: Scrap Metal Merchants<br>**Status: Inactive**<br>Positional Accuracy: Automatically positioned in the proximity of the address | A13SE (S) | 106 | - | 437639 410307 |
| 246 | **Contemporary Trade Directory Entries**<br>Name: Ever Readymix Concrete Ltd<br>Location: Shaw Lane, Carlton, Barnsley, S71 3HJ<br>Classification: Concrete & Mortar Ready Mixed<br>**Status: Active**<br>Positional Accuracy: Automatically positioned to the address | A13NE (N) | 112 | - | 437690 410714 |
| 247 | **Contemporary Trade Directory Entries**<br>Name: Peter Lloyd<br>Location: Shaw La, Carlton, Barnsley, South Yorkshire, S71 3HJ<br>Classification: Commercial Vehicle Dealers<br>**Status: Inactive**<br>Positional Accuracy: Manually positioned to the road within the address or location | A13SE (SE) | 125 | - | 437693 410295 |
| 247 | **Contemporary Trade Directory Entries**<br>Name: T Goodwin<br>Location: Shaw La, Carlton, Barnsley, South Yorkshire, S71 3HJ<br>Classification: Scrap Metal Merchants<br>**Status: Inactive**<br>Positional Accuracy: Manually positioned to the road within the address or location | A13SE (S) | 145 | - | 437686 410274 |
| 248 | **Contemporary Trade Directory Entries**<br>Name: C & K Beckett<br>Location: Shaw Lane, Carlton, Barnsley, S71 3HJ<br>Classification: Scrap Metal Merchants<br>**Status: Active**<br>Positional Accuracy: Automatically positioned to the address | A13NE (N) | 174 | - | 437628 410786 |
| 249 | **Contemporary Trade Directory Entries**<br>Name: Shelton Commercials<br>Location: Shaw La, Carlton, Barnsley, South Yorkshire, S71 3HJ<br>Classification: Commercial Vehicle Breakdown & Recovery Services<br>**Status: Inactive**<br>Positional Accuracy: Manually positioned to the road within the address or location | A13SE (SE) | 179 | - | 437866 410350 |
| 250 | **Contemporary Trade Directory Entries**<br>Name: Carlton Car Breakers<br>Location: Shaw Lane Works, Shaw Lane, Carlton, Barnsley, S71 3HJ<br>Classification: Car Breakdown & Recovery Services<br>**Status: Active**<br>Positional Accuracy: Automatically positioned to the address | A13SE (S) | 201 | - | 437699 410219 |
| 250 | **Contemporary Trade Directory Entries**<br>Name: Dts Environmental Ltd<br>Location: Shaw Lane, Carlton, Barnsley, South Yorkshire, S71 3HJ<br>Classification: Recycling Centres<br>**Status: Inactive**<br>Positional Accuracy: Automatically positioned to the address | A13SE (SE) | 216 | - | 437736 410210 |
| 250 | **Contemporary Trade Directory Entries**<br>Name: Dts Environmental<br>Location: Shaw Lane, Carlton, Barnsley, South Yorkshire, S71 3HJ<br>Classification: Recycling Services<br>**Status: Inactive**<br>Positional Accuracy: Automatically positioned to the address | A13SE (SE) | 216 | - | 437736 410210 |
| 251 | **Contemporary Trade Directory Entries**<br>Name: Welbourn Car Dismantlers<br>Location: Boulder Bridge Lane, Shaw Lane, Carlton, Barnsley, South Yorkshire, S71 3HJ<br>Classification: Car Breakers & Dismantlers<br>**Status: Active**<br>Positional Accuracy: Automatically positioned to the address | A8NE (S) | 259 | - | 437662 410155 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| 251 | **Contemporary Trade Directory Entries**<br>Name: W Conway & Sons<br>Location: Shaw Lane, Carlton, Barnsley, South Yorkshire, S71 3HJ<br>Classification: Scrap Metal Merchants<br>**Status: Active**<br>Positional Accuracy: Automatically positioned to the address | A8NE (S) | 259 | - | 437662 410155 |
| 252 | **Contemporary Trade Directory Entries**<br>Name: John Harper<br>Location: 179, Weet Shaw Lane, Cudworth, Barnsley, South Yorkshire, S72 8BL<br>Classification: Road Haulage Services<br>**Status: Inactive**<br>Positional Accuracy: Automatically positioned to the address | A14SE (E) | 692 | - | 438394 410503 |
| 253 | **Contemporary Trade Directory Entries**<br>Name: Andy'S Autos<br>Location: 57, Shaw Lane, Carlton, Barnsley, South Yorkshire, S71 3HG<br>Classification: Garage Services<br>**Status: Inactive**<br>Positional Accuracy: Automatically positioned to the address | A7NE (SW) | 697 | - | 436984 409994 |
| 253 | **Contemporary Trade Directory Entries**<br>Name: 1st Call Recovery<br>Location: 57, Shaw Lane, Carlton, Barnsley, South Yorkshire, S71 3HG<br>Classification: Garage Services<br>**Status: Inactive**<br>Positional Accuracy: Automatically positioned to the address | A7NE (SW) | 697 | - | 436984 409994 |
| 253 | **Contemporary Trade Directory Entries**<br>Name: Acorn Aggregates<br>Location: 57, Shaw Lane, Carlton, Barnsley, South Yorkshire, S71 3HG<br>Classification: Sand, Gravel & Other Aggregates<br>**Status: Inactive**<br>Positional Accuracy: Automatically positioned to the address | A7NE (SW) | 697 | - | 436984 409994 |
| 254 | **Contemporary Trade Directory Entries**<br>Name: R Storrs & Son<br>Location: 130, Cross Lane, Royston, Barnsley, South Yorkshire, S71 4AR<br>Classification: Road Haulage Services<br>**Status: Inactive**<br>Positional Accuracy: Automatically positioned to the address | A17NE (NW) | 699 | - | 437198 411196 |
| 255 | **Contemporary Trade Directory Entries**<br>Name: Trevor Wigley & Son Ltd<br>Location: 148, Royston Road, Cudworth, Barnsley, South Yorkshire, S72 8BN<br>Classification: Car Breakers & Dismantlers<br>**Status: Inactive**<br>Positional Accuracy: Automatically positioned to the address | A14SE (E) | 731 | - | 438432 410348 |
| 256 | **Contemporary Trade Directory Entries**<br>Name: Old Forge Garage<br>Location: 6 Shaw La, Carlton, Barnsley, South Yorkshire, S71 3HG<br>Classification: Car Dealers<br>**Status: Inactive**<br>Positional Accuracy: Manually positioned to the road within the address or location | A7NW (SW) | 803 | - | 436851 410006 |
| 257 | **Contemporary Trade Directory Entries**<br>Name: Passenger Vehicle Spares Ltd<br>Location: 159, Weet Shaw Lane, Cudworth, Barnsley, South Yorkshire, S72 8BL<br>Classification: Commercial Vehicle Servicing, Repairs, Parts & Accessories<br>**Status: Inactive**<br>Positional Accuracy: Automatically positioned to the address | A14NE (E) | 841 | - | 438544 410507 |
| 258 | **Contemporary Trade Directory Entries**<br>Name: J Ogden<br>Location: 131, Park View, Royston, Barnsley, South Yorkshire, S71 4AF<br>Classification: Fascias and Soffits<br>**Status: Inactive**<br>Positional Accuracy: Automatically positioned to the address | A17NW (NW) | 888 | - | 436881 411201 |
| 259 | **Contemporary Trade Directory Entries**<br>Name: Lloyd Fraser Contract Ltd<br>Location: Fish Dam Lane, Barnsley, South Yorkshire, S71 3HQ<br>Classification: Distribution Services<br>**Status: Inactive**<br>Positional Accuracy: Automatically positioned to the address | A7SW (SW) | 929 | - | 436894 409742 |
| 260 | **Contemporary Trade Directory Entries**<br>Name: Tms Gas<br>Location: 20, Manor Farm Close, Barnsley, South Yorkshire, S71 3EH<br>Classification: Boilers - Servicing, Replacements & Repairs<br>**Status: Inactive**<br>Positional Accuracy: Automatically positioned to the address | A7NW (SW) | 948 | - | 436719 409944 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| 261 | **Points of Interest - Commercial Services**<br>Name: P V S Barnsley Ltd<br>Location: Shaw Lane, Carlton, Barnsley, S71 3HJ<br>Category: Recycling Services<br>Class Code: Scrap Metal Merchants<br>Positional Accuracy: Positioned to address or location | A13SE (SE) | 8 | 8 | 437662 410409 |
| 261 | **Points of Interest - Commercial Services**<br>Name: Scrap Yard<br>Location: Not Supplied<br>Category: Recycling Services<br>Class Code: Scrap Metal Merchants<br>Positional Accuracy: Positioned to an adjacent address or location | A13SE (SE) | 30 | 8 | 437735 410426 |
| 261 | **Points of Interest - Commercial Services**<br>Name: Welbourn Car Dismantlers<br>Location: Shaw Lane, Carlton, Barnsley, S71 3HJ<br>Category: Recycling Services<br>Class Code: Scrap Metal Merchants<br>Positional Accuracy: Positioned to address or location | A13SE (SE) | 39 | 8 | 437740 410411 |
| 261 | **Points of Interest - Commercial Services**<br>Name: Scrap Yard<br>Location: S71<br>Category: Recycling Services<br>Class Code: Scrap Metal Merchants<br>Positional Accuracy: Positioned to address or location | A13SE (SE) | 39 | 8 | 437737 410404 |
| 261 | **Points of Interest - Commercial Services**<br>Name: Trevor Wigley & Son Bus Ltd<br>Location: Shaw Lane, Carlton, Barnsley, S71 3HJ<br>Category: Repair and Servicing<br>Class Code: Vehicle Repair, Testing and Servicing<br>Positional Accuracy: Positioned to address or location | A13NE (E) | 46 | 8 | 437730 410511 |
| 262 | **Points of Interest - Commercial Services**<br>Name: Scrap Yard<br>Location: S71<br>Category: Recycling Services<br>Class Code: Scrap Metal Merchants<br>Positional Accuracy: Positioned to address or location | A13SE (S) | 39 | 8 | 437627 410372 |
| 262 | **Points of Interest - Commercial Services**<br>Name: Shelton Commercials Ltd<br>Location: Shaw Lane, Carlton, Barnsley, S71 3HJ<br>Category: Repair and Servicing<br>Class Code: Vehicle Repair, Testing and Servicing<br>Positional Accuracy: Positioned to address or location | A13SE (S) | 106 | 8 | 437639 410307 |
| 262 | **Points of Interest - Commercial Services**<br>Name: Milton Gough's<br>Location: Shaw Lane, Carlton, Barnsley, S71 3HJ<br>Category: Recycling Services<br>Class Code: Scrap Metal Merchants<br>Positional Accuracy: Positioned to address or location | A13SE (S) | 106 | 8 | 437639 410306 |
| 262 | **Points of Interest - Commercial Services**<br>Name: Scrap Yard<br>Location: S71<br>Category: Recycling Services<br>Class Code: Scrap Metal Merchants<br>Positional Accuracy: Positioned to address or location | A13SE (S) | 139 | 8 | 437632 410271 |
| 263 | **Points of Interest - Commercial Services**<br>Name: William Firth & Son Ltd<br>Location: Boulder Bridge, Shaw Lane, Carlton, Barnsley, S71 3HJ<br>Category: Recycling Services<br>Class Code: Scrap Metal Merchants<br>Positional Accuracy: Positioned to address or location | A13NE (N) | 42 | 8 | 437608 410644 |
| 263 | **Points of Interest - Commercial Services**<br>Name: Scrap Yard<br>Location: S71<br>Category: Recycling Services<br>Class Code: Scrap Metal Merchants<br>Positional Accuracy: Positioned to address or location | A13NW (NW) | 55 | 8 | 437532 410633 |
| 263 | **Points of Interest - Commercial Services**<br>Name: C & K Beckett<br>Location: Shaw Lane, Carlton, Barnsley, S71 3HJ<br>Category: Recycling Services<br>Class Code: Scrap Metal Merchants<br>Positional Accuracy: Positioned to address or location | A13NW (N) | 112 | 8 | 437542 410696 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| 263 | **Points of Interest - Commercial Services**<br>Name: C & K Beckett<br>Location: Shaw Lane, Carlton, Barnsley, S71 3HJ<br>Category: Recycling Services<br>Class Code: Scrap Metal Merchants<br>Positional Accuracy: Positioned to address or location | A13NW (N) | 112 | 8 | 437542 410696 |
| 263 | **Points of Interest - Commercial Services**<br>Name: Scrap Yard<br>Location: S71<br>Category: Recycling Services<br>Class Code: Scrap Metal Merchants<br>Positional Accuracy: Positioned to address or location | A13NW (N) | 159 | 8 | 437564 410753 |
| 264 | **Points of Interest - Commercial Services**<br>Name: Scrap Yard<br>Location: Not Supplied<br>Category: Recycling Services<br>Class Code: Scrap Metal Merchants<br>Positional Accuracy: Positioned to an adjacent address or location | A13NE (N) | 84 | 8 | 437646 410696 |
| 264 | **Points of Interest - Commercial Services**<br>Name: Scrap Yard<br>Location: S71<br>Category: Recycling Services<br>Class Code: Scrap Metal Merchants<br>Positional Accuracy: Positioned to address or location | A13NE (N) | 89 | 8 | 437647 410701 |
| 264 | **Points of Interest - Commercial Services**<br>Name: Scrap Yard<br>Location: S71<br>Category: Recycling Services<br>Class Code: Scrap Metal Merchants<br>Positional Accuracy: Positioned to address or location | A13NE (N) | 134 | 8 | 437673 410743 |
| 265 | **Points of Interest - Commercial Services**<br>Name: Scrap Yard<br>Location: S71<br>Category: Recycling Services<br>Class Code: Scrap Metal Merchants<br>Positional Accuracy: Positioned to address or location | A13SE (SE) | 142 | 8 | 437756 410292 |
| 265 | **Points of Interest - Commercial Services**<br>Name: Scrap Yard<br>Location: S71<br>Category: Recycling Services<br>Class Code: Scrap Metal Merchants<br>Positional Accuracy: Positioned to address or location | A13SE (SE) | 170 | 8 | 437731 410256 |
| 265 | **Points of Interest - Commercial Services**<br>Name: Scrap Yard<br>Location: Not Supplied<br>Category: Recycling Services<br>Class Code: Scrap Metal Merchants<br>Positional Accuracy: Positioned to an adjacent address or location | A13SE (SE) | 180 | 8 | 437731 410245 |
| 265 | **Points of Interest - Commercial Services**<br>Name: Carlton Car Breakers<br>Location: Shaw Lane Works, Shaw Lane, Carlton, Barnsley, S71 3HJ<br>Category: Recycling Services<br>Class Code: Scrap Metal Merchants<br>Positional Accuracy: Positioned to address or location | A13SE (S) | 202 | 8 | 437699 410219 |
| 266 | **Points of Interest - Commercial Services**<br>Name: W Conway & Sons<br>Location: Shaw Lane, Carlton, Barnsley, S71 3HJ<br>Category: Recycling Services<br>Class Code: Scrap Metal Merchants<br>Positional Accuracy: Positioned to address or location | A8NE (S) | 259 | 8 | 437662 410155 |
| 266 | **Points of Interest - Commercial Services**<br>Name: W Conway & Sons<br>Location: Shaw Lane, Carlton, Barnsley, S71 3HJ<br>Category: Recycling Services<br>Class Code: Scrap Metal Merchants<br>Positional Accuracy: Positioned to address or location | A8NE (S) | 260 | 8 | 437662 410154 |
| 266 | **Points of Interest - Commercial Services**<br>Name: D T S Waste Management Ltd<br>Location: The Recycling Centre, Shaw Lane, Carlton, Barnsley, S71 3HJ<br>Category: Recycling Services<br>Class Code: Recycling, Reclamation and Disposal<br>Positional Accuracy: Positioned to address or location | A8NE (S) | 262 | 8 | 437704 410158 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| 266 | **Points of Interest - Commercial Services**<br>Name: Scrap Yard<br>Location: S71<br>Category: Recycling Services<br>Class Code: Scrap Metal Merchants<br>Positional Accuracy: Positioned to address or location | A8NE (S) | 277 | 8 | 437655 410135 |
| 267 | **Points of Interest - Commercial Services**<br>Name: Scrap Yard<br>Location: S71<br>Category: Recycling Services<br>Class Code: Scrap Metal Merchants<br>Positional Accuracy: Positioned to address or location | A8NE (S) | 301 | 8 | 437747 410125 |
| 267 | **Points of Interest - Commercial Services**<br>Name: Mel's Motor Spares<br>Location: Shaw Lane, Carlton, Barnsley, S71 3HJ<br>Category: Recycling Services<br>Class Code: Scrap Metal Merchants<br>Positional Accuracy: Positioned to address or location | A8NE (S) | 317 | 8 | 437695 410101 |
| 267 | **Points of Interest - Commercial Services**<br>Name: Scrap Yard<br>Location: Not Supplied<br>Category: Recycling Services<br>Class Code: Scrap Metal Merchants<br>Positional Accuracy: Positioned to an adjacent address or location | A8NE (S) | 344 | 8 | 437755 410083 |
| 267 | **Points of Interest - Commercial Services**<br>Name: Scrap Yard<br>Location: S71<br>Category: Recycling Services<br>Class Code: Scrap Metal Merchants<br>Positional Accuracy: Positioned to address or location | A8NE (S) | 347 | 8 | 437756 410080 |
| 267 | **Points of Interest - Commercial Services**<br>Name: Scrap Yard<br>Location: S71<br>Category: Recycling Services<br>Class Code: Scrap Metal Merchants<br>Positional Accuracy: Positioned to address or location | A8NE (S) | 378 | 8 | 437716 410043 |
| 268 | **Points of Interest - Commercial Services**<br>Name: John Harper<br>Location: 179 Weet Shaw Lane, Cudworth, Barnsley, S72 8BL<br>Category: Transport, Storage and Delivery<br>Class Code: Distribution and Haulage<br>Positional Accuracy: Positioned to address or location | A14SE (E) | 692 | 8 | 438394 410503 |
| 269 | **Points of Interest - Commercial Services**<br>Name: Andy's Autos<br>Location: 57 Shaw Lane, Carlton, Barnsley, S71 3HG<br>Category: Repair and Servicing<br>Class Code: Vehicle Repair, Testing and Servicing<br>Positional Accuracy: Positioned to address or location | A7NE (SW) | 697 | 8 | 436984 409994 |
| 270 | **Points of Interest - Commercial Services**<br>Name: Passenger Vehicle Spares Ltd<br>Location: 159 Weet Shaw Lane, Cudworth, Barnsley, S72 8BL<br>Category: Repair and Servicing<br>Class Code: Vehicle Repair, Testing and Servicing<br>Positional Accuracy: Positioned to address or location | A14NE (E) | 841 | 8 | 438544 410507 |
| 270 | **Points of Interest - Commercial Services**<br>Name: Passenger Vehicle Spares Barnsley Ltd<br>Location: 159 Weet Shaw Lane, Cudworth, Barnsley, S72 8BL<br>Category: Repair and Servicing<br>Class Code: Vehicle Repair, Testing and Servicing<br>Positional Accuracy: Positioned to address or location | A14NE (E) | 841 | 8 | 438544 410507 |
| 271 | **Points of Interest - Manufacturing and Production**<br>Name: Tanks<br>Location: S71<br>Category: Industrial Features<br>Class Code: Tanks (Generic)<br>Positional Accuracy: Positioned to an adjacent address or location | A13SE (SE) | 38 | 8 | 437678 410381 |
| 271 | **Points of Interest - Manufacturing and Production**<br>Name: Tank<br>Location: S71<br>Category: Industrial Features<br>Class Code: Tanks (Generic)<br>Positional Accuracy: Positioned to address or location | A13SE (SE) | 45 | 8 | 437694 410376 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| 271 | **Points of Interest - Manufacturing and Production**<br>Name: Tank<br>Location: S71<br>Category: Industrial Features<br>Class Code: Tanks (Generic)<br>Positional Accuracy: Positioned to address or location | A13SE (SE) | 63 | 8 | 437678 410356 |
| 272 | **Points of Interest - Manufacturing and Production**<br>Name: Tank<br>Location: S71<br>Category: Industrial Features<br>Class Code: Tanks (Generic)<br>Positional Accuracy: Positioned to address or location | A8NW (S) | 433 | 8 | 437433 409982 |
| 272 | **Points of Interest - Manufacturing and Production**<br>Name: Tanks<br>Location: S71<br>Category: Industrial Features<br>Class Code: Tanks (Generic)<br>Positional Accuracy: Positioned to an adjacent address or location | A8NW (S) | 433 | 8 | 437433 409982 |
| 272 | **Points of Interest - Manufacturing and Production**<br>Name: Works<br>Location: Not Supplied<br>Category: Industrial Features<br>Class Code: Unspecified Works Or Factories<br>Positional Accuracy: Positioned to an adjacent address or location | A8NW (S) | 467 | 8 | 437415 409952 |
| 273 | **Points of Interest - Manufacturing and Production**<br>Name: Tank<br>Location: S71<br>Category: Industrial Features<br>Class Code: Tanks (Generic)<br>Positional Accuracy: Positioned to address or location | A7SE (SW) | 823 | 8 | 437107 409706 |
| 273 | **Points of Interest - Manufacturing and Production**<br>Name: Tanks<br>Location: S71<br>Category: Industrial Features<br>Class Code: Tanks (Generic)<br>Positional Accuracy: Positioned to an adjacent address or location | A7SE (SW) | 823 | 8 | 437107 409706 |
| 274 | **Points of Interest - Public Infrastructure**<br>Name: Sewage Works<br>Location: S71<br>Category: Infrastructure and Facilities<br>Class Code: Waste Storage, Processing and Disposal<br>Positional Accuracy: Positioned to address or location | A8NW (S) | 265 | 8 | 437463 410149 |
| 275 | **Points of Interest - Public Infrastructure**<br>Name: Refuse Tip (Disused)<br>Location: S71<br>Category: Infrastructure and Facilities<br>Class Code: Refuse Disposal Facilities<br>Positional Accuracy: Positioned to an adjacent address or location | A8NW (S) | 472 | 8 | 437550 409927 |
| 276 | **Points of Interest - Public Infrastructure**<br>Name: Cudworth North Junction<br>Location: S71<br>Category: Public Transport, Stations and Infrastructure<br>Class Code: Railway Stations, Junctions and Halts<br>Positional Accuracy: Positioned to an adjacent address or location | A3NE (S) | 984 | 8 | 437763 409437 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| 277 | **Areas of Adopted Green Belt**<br>Authority: Barnsley Metropolitan Borough Council, Planning Department<br>Plan Name: Barnsley Unitary Development Plan<br>**Status: Adopted**<br>Plan Date: 31st December 2000 | A13SW (W) | 16 | 6 | 437511 410477 |
| 278 | **Local Nature Reserves**<br>Name: Carlton Marsh (Mapped Boundary Not Verified)<br>Multiple Area: N<br>Area (m2): 277119.09<br>Source: Natural England<br>Designation Date: 13th June 1980 | A13SE (SE) | 120 | 10 | 437762 410319 |
| 279 | **Nitrate Vulnerable Zones**<br>Name: River Dearne Nvz<br>Description: Surface Water<br>Source: Environment Agency, Head Office | A13SE (SW) | 0 | 11 | 437605 410501 |

| Agency & Hydrological | Version | Update Cycle |
|---|---|---|
| **Contaminated Land Register Entries and Notices** | | |
| Doncaster Metropolitan Borough Council - Environmental Services | April 2014 | Annual Rolling Update |
| Barnsley Metropolitan Borough Council - Environmental Health and Trading Standards | July 2013 | Annual Rolling Update |
| Wakefield City Metropolitan District Council - Environmental Health | March 2015 | Annual Rolling Update |
| **Discharge Consents** | | |
| Environment Agency - North East Region | July 2017 | Quarterly |
| **Enforcement and Prohibition Notices** | | |
| Environment Agency - North East Region | March 2013 | As notified |
| **Integrated Pollution Controls** | | |
| Environment Agency - North East Region | October 2008 | Not Applicable |
| **Integrated Pollution Prevention And Control** | | |
| Environment Agency - North East Region | July 2017 | Quarterly |
| **Local Authority Integrated Pollution Prevention And Control** | | |
| Barnsley Metropolitan Borough Council - Environmental Health and Trading Standards | April 2014 | Annual Rolling Update |
| Doncaster Metropolitan Borough Council - Environmental Services | June 2014 | Annual Rolling Update |
| Wakefield City Metropolitan District Council - Environmental Health | June 2014 | Annual Rolling Update |
| **Local Authority Pollution Prevention and Controls** | | |
| Barnsley Metropolitan Borough Council - Environmental Health and Trading Standards | April 2014 | Annual Rolling Update |
| Doncaster Metropolitan Borough Council - Environmental Services | June 2014 | Annual Rolling Update |
| Wakefield City Metropolitan District Council - Environmental Health | June 2014 | Annual Rolling Update |
| **Local Authority Pollution Prevention and Control Enforcements** | | |
| Barnsley Metropolitan Borough Council - Environmental Health and Trading Standards | April 2014 | Annual Rolling Update |
| Doncaster Metropolitan Borough Council - Environmental Services | June 2014 | Annual Rolling Update |
| Wakefield City Metropolitan District Council - Environmental Health | June 2014 | Annual Rolling Update |
| **Nearest Surface Water Feature** | | |
| Ordnance Survey | May 2017 | |
| **Pollution Incidents to Controlled Waters** | | |
| Environment Agency - North East Region | December 1998 | Not Applicable |
| **Prosecutions Relating to Authorised Processes** | | |
| Environment Agency - North East Region | March 2013 | As notified |
| **Prosecutions Relating to Controlled Waters** | | |
| Environment Agency - North East Region | March 2013 | As notified |
| **Registered Radioactive Substances** | | |
| Environment Agency - North East Region | January 2015 | |
| **River Quality** | | |
| Environment Agency - Head Office | November 2001 | Not Applicable |
| **River Quality Biology Sampling Points** | | |
| Environment Agency - Head Office | July 2012 | Annually |
| **River Quality Chemistry Sampling Points** | | |
| Environment Agency - Head Office | July 2012 | Annually |
| **Substantiated Pollution Incident Register** | | |
| Environment Agency - North East Region - Ridings Area | July 2017 | Quarterly |
| Environment Agency - North East Region - Yorkshire Area | July 2017 | Quarterly |
| **Water Abstractions** | | |
| Environment Agency - North East Region | July 2017 | Quarterly |
| **Water Industry Act Referrals** | | |
| Environment Agency - North East Region | July 2017 | Quarterly |
| **Groundwater Vulnerability** | | |
| Environment Agency - Head Office | April 2015 | Not Applicable |
| **Drift Deposits** | | |
| Environment Agency - Head Office | January 1999 | Not Applicable |

| Agency & Hydrological | Version | Update Cycle |
|---|---|---|
| **Bedrock Aquifer Designations**<br>British Geological Survey - National Geoscience Information Service | August 2015 | As notified |
| **Superficial Aquifer Designations**<br>British Geological Survey - National Geoscience Information Service | August 2015 | As notified |
| **Source Protection Zones**<br>Environment Agency - Head Office | July 2017 | Quarterly |
| **Extreme Flooding from Rivers or Sea without Defences**<br>Environment Agency - Head Office | August 2017 | Quarterly |
| **Flooding from Rivers or Sea without Defences**<br>Environment Agency - Head Office | August 2017 | Quarterly |
| **Areas Benefiting from Flood Defences**<br>Environment Agency - Head Office | August 2017 | Quarterly |
| **Flood Water Storage Areas**<br>Environment Agency - Head Office | August 2017 | Quarterly |
| **Flood Defences**<br>Environment Agency - Head Office | August 2017 | Quarterly |
| **OS Water Network Lines**<br>Ordnance Survey | July 2017 | 6 Weekly |
| **Surface Water 1 in 30 year Flood Extent**<br>Environment Agency - Head Office | October 2013 | As notified |
| **Surface Water 1 in 100 year Flood Extent**<br>Environment Agency - Head Office | October 2013 | As notified |
| **Surface Water 1 in 1000 year Flood Extent**<br>Environment Agency - Head Office | October 2013 | As notified |
| **Surface Water Suitability**<br>Environment Agency - Head Office | October 2013 | As notified |
| **BGS Groundwater Flooding Susceptibility**<br>British Geological Survey - National Geoscience Information Service | May 2013 | Annually |

| Waste | Version | Update Cycle |
|---|---|---|
| **BGS Recorded Landfill Sites** | | |
| British Geological Survey - National Geoscience Information Service | June 1996 | Not Applicable |
| **Historical Landfill Sites** | | |
| Environment Agency - Head Office | May 2017 | Quarterly |
| **Integrated Pollution Control Registered Waste Sites** | | |
| Environment Agency - North East Region | October 2008 | Not Applicable |
| **Licensed Waste Management Facilities (Landfill Boundaries)** | | |
| Environment Agency - North East Region - Ridings Area | May 2017 | Quarterly |
| Environment Agency - North East Region - Yorkshire Area | May 2017 | Quarterly |
| **Licensed Waste Management Facilities (Locations)** | | |
| Environment Agency - North East Region - Ridings Area | July 2017 | Quarterly |
| Environment Agency - North East Region - Yorkshire Area | July 2017 | Quarterly |
| **Local Authority Landfill Coverage** | | |
| Barnsley Metropolitan Borough Council - Environmental Health and Trading Standards | May 2000 | Not Applicable |
| Doncaster Metropolitan Borough Council - Environmental Services | May 2000 | Not Applicable |
| Wakefield City Metropolitan District Council - Environmental Health | May 2000 | Not Applicable |
| **Local Authority Recorded Landfill Sites** | | |
| Barnsley Metropolitan Borough Council - Environmental Health and Trading Standards | May 2000 | Not Applicable |
| Doncaster Metropolitan Borough Council - Environmental Services | May 2000 | Not Applicable |
| Wakefield City Metropolitan District Council - Environmental Health | May 2000 | Not Applicable |
| **Potentially Infilled Land (Non-Water)** | | |
| Landmark Information Group Limited | December 1999 | Not Applicable |
| **Potentially Infilled Land (Water)** | | |
| Landmark Information Group Limited | December 1999 | Not Applicable |
| **Registered Landfill Sites** | | |
| Environment Agency - North East Region - Ridings Area | March 2003 | Not Applicable |
| Environment Agency - North East Region - Yorkshire Area | March 2003 | Not Applicable |
| **Registered Waste Transfer Sites** | | |
| Environment Agency - North East Region - Ridings Area | March 2003 | Not Applicable |
| Environment Agency - North East Region - Yorkshire Area | March 2003 | Not Applicable |
| **Registered Waste Treatment or Disposal Sites** | | |
| Environment Agency - North East Region - Ridings Area | March 2003 | Not Applicable |
| Environment Agency - North East Region - Yorkshire Area | March 2003 | Not Applicable |
| **Hazardous Substances** | **Version** | **Update Cycle** |
| **Control of Major Accident Hazards Sites (COMAH)** | | |
| Health and Safety Executive | September 2017 | Bi-Annually |
| **Explosive Sites** | | |
| Health and Safety Executive | March 2017 | Bi-Annually |
| **Notification of Installations Handling Hazardous Substances (NIHHS)** | | |
| Health and Safety Executive | November 2000 | Not Applicable |
| **Planning Hazardous Substance Enforcements** | | |
| Wakefield City Metropolitan District Council | February 2016 | Annual Rolling Update |
| Barnsley Metropolitan Borough Council - Planning Department | January 2016 | Annual Rolling Update |
| Doncaster Metropolitan Borough Council | October 2015 | Annual Rolling Update |
| **Planning Hazardous Substance Consents** | | |
| Wakefield City Metropolitan District Council | February 2016 | Annual Rolling Update |
| Barnsley Metropolitan Borough Council - Planning Department | January 2016 | Annual Rolling Update |
| Doncaster Metropolitan Borough Council | October 2015 | Annual Rolling Update |

| Geological | Version | Update Cycle |
|---|---|---|
| **BGS 1:625,000 Solid Geology**<br>British Geological Survey - National Geoscience Information Service | January 2009 | Not Applicable |
| **BGS Estimated Soil Chemistry**<br>British Geological Survey - National Geoscience Information Service | October 2015 | As notified |
| **BGS Recorded Mineral Sites**<br>British Geological Survey - National Geoscience Information Service | April 2017 | Bi-Annually |
| **CBSCB Compensation District**<br>Cheshire Brine Subsidence Compensation Board (CBSCB) | August 2011 | Not Applicable |
| **Coal Mining Affected Areas**<br>The Coal Authority - Property Searches | March 2014 | As notified |
| **Mining Instability**<br>Ove Arup & Partners | October 2000 | Not Applicable |
| **Non Coal Mining Areas of Great Britain**<br>British Geological Survey - National Geoscience Information Service | May 2015 | Not Applicable |
| **Potential for Collapsible Ground Stability Hazards**<br>British Geological Survey - National Geoscience Information Service | June 2015 | Annually |
| **Potential for Compressible Ground Stability Hazards**<br>British Geological Survey - National Geoscience Information Service | June 2015 | Annually |
| **Potential for Ground Dissolution Stability Hazards**<br>British Geological Survey - National Geoscience Information Service | June 2015 | Annually |
| **Potential for Landslide Ground Stability Hazards**<br>British Geological Survey - National Geoscience Information Service | June 2015 | Annually |
| **Potential for Running Sand Ground Stability Hazards**<br>British Geological Survey - National Geoscience Information Service | June 2015 | Annually |
| **Potential for Shrinking or Swelling Clay Ground Stability Hazards**<br>British Geological Survey - National Geoscience Information Service | June 2015 | Annually |
| **Radon Potential - Radon Affected Areas**<br>British Geological Survey - National Geoscience Information Service | July 2011 | As notified |
| **Radon Potential - Radon Protection Measures**<br>British Geological Survey - National Geoscience Information Service | July 2011 | As notified |
| **Industrial Land Use** | **Version** | **Update Cycle** |
| **Contemporary Trade Directory Entries**<br>Thomson Directories | June 2017 | Quarterly |
| **Fuel Station Entries**<br>Catalist Ltd - Experian | August 2017 | Quarterly |
| **Gas Pipelines**<br>National Grid | July 2014 | Quarterly |
| **Points of Interest - Commercial Services**<br>PointX | September 2017 | Quarterly |
| **Points of Interest - Education and Health**<br>PointX | September 2017 | Quarterly |
| **Points of Interest - Manufacturing and Production**<br>PointX | September 2017 | Quarterly |
| **Points of Interest - Public Infrastructure**<br>PointX | September 2017 | Quarterly |
| **Points of Interest - Recreational and Environmental**<br>PointX | September 2017 | Quarterly |
| **Underground Electrical Cables**<br>National Grid | December 2015 | Bi-Annually |

| Sensitive Land Use | Version | Update Cycle |
|---|---|---|
| **Ancient Woodland** | | |
| Natural England | May 2017 | Bi-Annually |
| **Areas of Adopted Green Belt** | | |
| Barnsley Metropolitan Borough Council - Planning Department | May 2017 | As notified |
| Doncaster Metropolitan Borough Council | May 2017 | As notified |
| Wakefield City Metropolitan District Council | May 2017 | As notified |
| **Areas of Unadopted Green Belt** | | |
| Barnsley Metropolitan Borough Council - Planning Department | May 2017 | As notified |
| Doncaster Metropolitan Borough Council | May 2017 | As notified |
| Wakefield City Metropolitan District Council | May 2017 | As notified |
| **Areas of Outstanding Natural Beauty** | | |
| Natural England | August 2017 | Bi-Annually |
| **Environmentally Sensitive Areas** | | |
| Natural England | January 2017 | Annually |
| **Forest Parks** | | |
| Forestry Commission | April 1997 | Not Applicable |
| **Local Nature Reserves** | | |
| Natural England | August 2017 | Bi-Annually |
| **Marine Nature Reserves** | | |
| Natural England | August 2017 | Bi-Annually |
| **National Nature Reserves** | | |
| Natural England | August 2017 | Bi-Annually |
| **National Parks** | | |
| Natural England | August 2017 | Bi-Annually |
| **Nitrate Vulnerable Zones** | | |
| Environment Agency - Head Office | June 2017 | Bi-Annually |
| Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA) | October 2015 | |
| **Ramsar Sites** | | |
| Natural England | August 2017 | Bi-Annually |
| **Sites of Special Scientific Interest** | | |
| Natural England | August 2017 | Bi-Annually |
| **Special Areas of Conservation** | | |
| Natural England | August 2017 | Bi-Annually |
| **Special Protection Areas** | | |
| Natural England | August 2017 | Bi-Annually |

# Data Suppliers

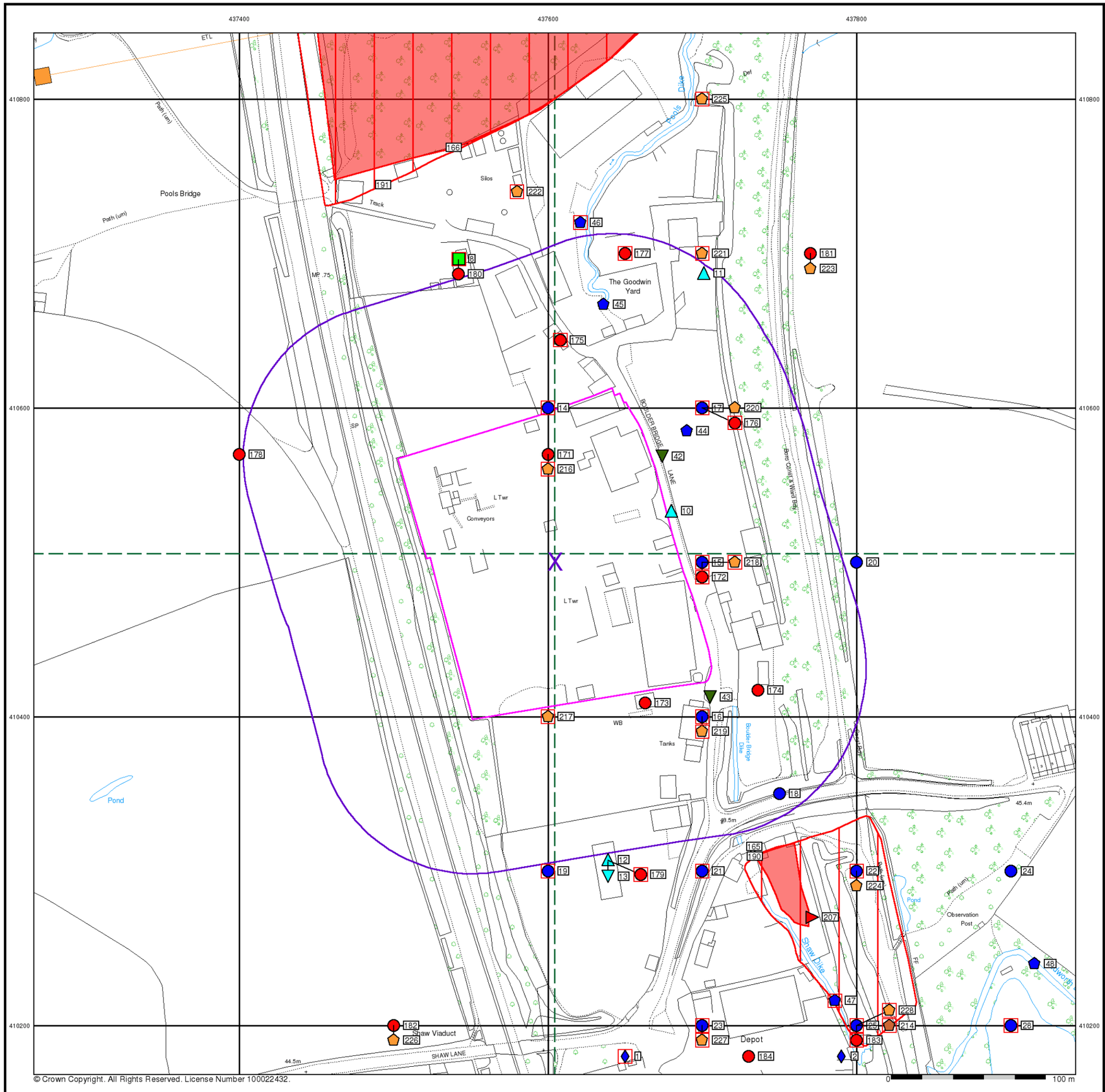
A selection of organisations who provide data within this report

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

# Useful Contacts

| Contact | Name and Address | Contact Details |
|---|---|---|
| 1 | **British Geological Survey - Enquiry Service**<br>British Geological Survey, Kingsley Dunham Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG | Telephone: 0115 936 3143<br>Fax: 0115 936 3276<br>Email: enquiries@bgs.ac.uk<br>Website: www.bgs.ac.uk |
| 2 | **Environment Agency - National Customer Contact Centre (NCCC)**<br>PO Box 544, Templeborough, Rotherham, S60 1BY | Telephone: 03708 506 506<br>Email: enquiries@environment-agency.gov.uk |
| 3 | **Barnsley Metropolitan Borough Council - Environmental Health and Trading Standards**<br>Central Offices, Kendray Street, Barnsley, South Yorkshire, S70 2TN | Telephone: 01226 770770<br>Fax: 01226 772599<br>Website: www.barnsley.gov.uk |
| 4 | **Ordnance Survey**<br>Adanac Drive, Southampton, Hampshire, SO16 0AS | Telephone: 023 8079 2000<br>Email: customerservices@ordnancesurvey.co.uk<br>Website: www.ordnancesurvey.gov.uk |
| 5 | **Health and Safety Executive**<br>5S.2 Redgrave Court, Merton Road, Bootle, L20 7HS | Website: www.hse.gov.uk |
| 6 | **Barnsley Metropolitan Borough Council - Planning Department**<br>Central Offices, Kendray Street, Barnsley, South Yorkshire, S70 2TN | Telephone: 01226 770770<br>Fax: 01226 772599<br>Website: www.barnsley.gov.uk |
| 7 | **The Coal Authority - Property Searches**<br>200 Lichfield Lane, Mansfield, Nottinghamshire, NG18 4RG | Telephone: 0345 762 6848<br>Fax: 01623 637 338<br>Email: groundstability@coal.gov.uk<br>Website: www2.groundstability.com |
| 8 | **PointX**<br>7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY | Website: www.pointx.co.uk |
| 9 | **Wakefield City Metropolitan District Council**<br>Newton Bar, Wakefield, West Yorkshire, WF1 2TX | Telephone: 01924 306090<br>Fax: 01924 378532<br>Website: www.wakefield.gov.uk |
| 10 | **Natural England**<br>County Hall, Spetchley Road, Worcester, WR5 2NP | Telephone: 0300 060 3900<br>Email: enquiries@naturalengland.org.uk<br>Website: www.naturalengland.org.uk |
| 11 | **Environment Agency - Head Office**<br>Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol, Avon, BS32 4UD | Telephone: 01454 624400<br>Fax: 01454 624409 |
| - | **Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards**<br>Chilton, Didcot, Oxfordshire, OX11 0RQ | Telephone: 01235 822622<br>Fax: 01235 833891<br>Email: radon@phe.gov.uk<br>Website: www.ukradon.org |
| - | **Landmark Information Group Limited**<br>Imperium, Imperial Way, Reading, Berkshire, RG2 0TD | Telephone: 0844 844 9952<br>Fax: 0844 844 9951<br>Email: customerservices@landmarkinfo.co.uk<br>Website: www.landmarkinfo.co.uk |

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

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RPS

## General

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

## Agency and Hydrological

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

## Hazardous Substances

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

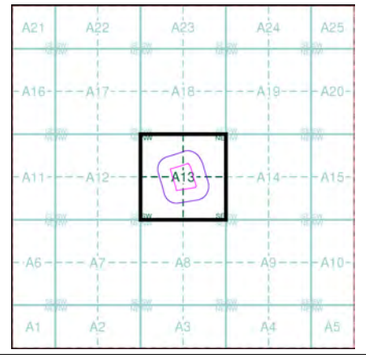
## Geological

- BGS Recorded Mineral Site

## Waste

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

## Site Sensitivity Map - Segment A13



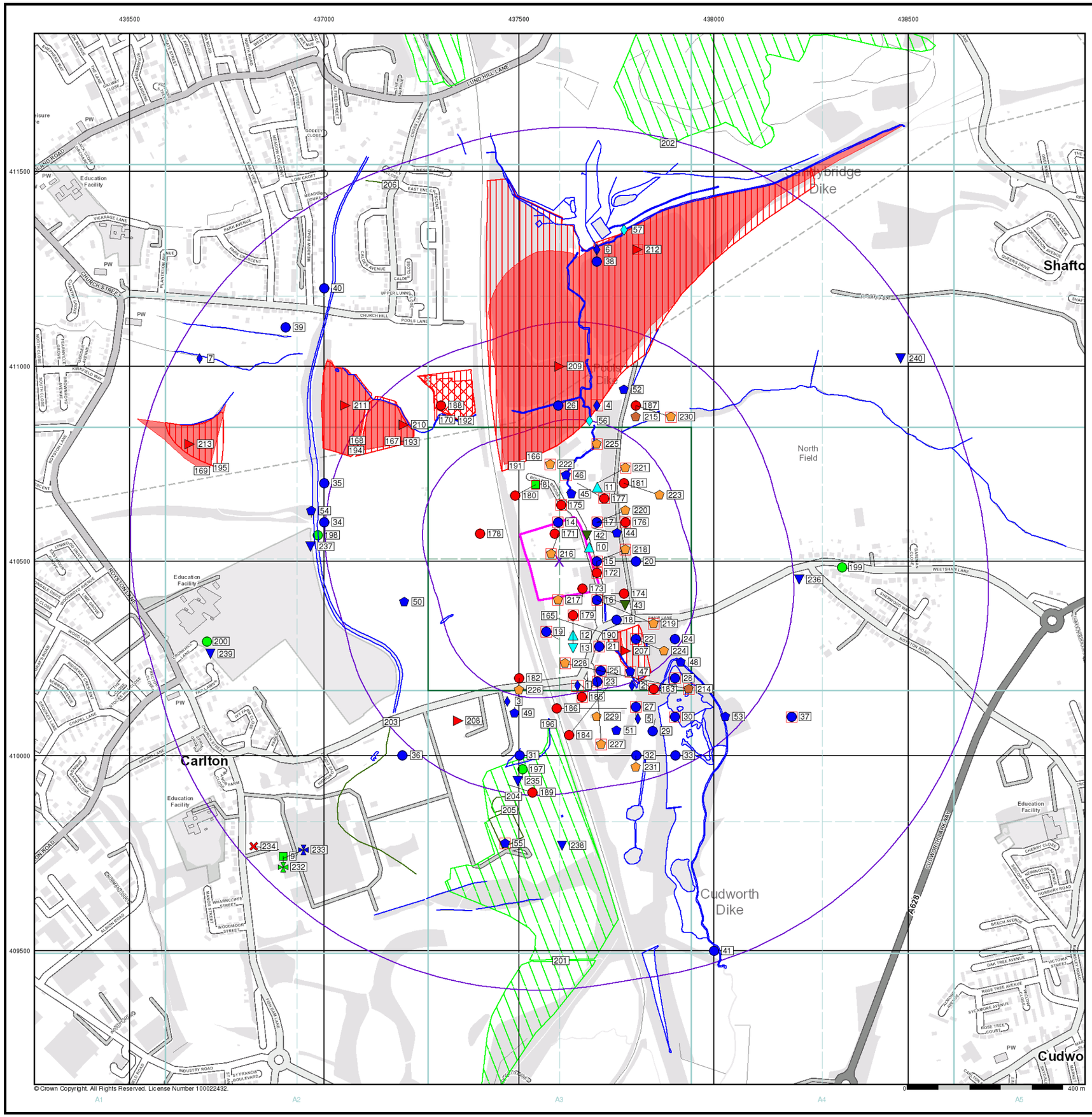

## Order Details

| | |
|---|---|
| Order Number: | 140347875_1_1 |
| Customer Ref: | JER6108 |
| National Grid Reference: | 437600, 410500 |
| Slice: | A |
| Site Area (Ha): | 2.93 |
| Plot Buffer (m): | 100 |

## Site Details

WFS Metals,, Boulder Bridge Lane, Carlton, BARNSLEY, S71 3HJ

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




RPS

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- Bearing Reference Point
- Map ID
- Several of Type at Location

## Agency and Hydrological

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- Registered Waste Transfer Site
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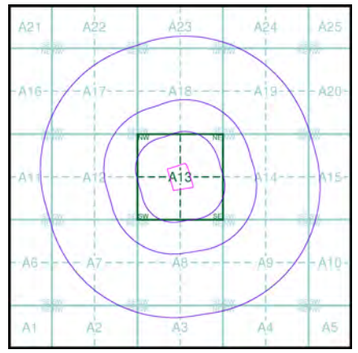
- Registered Waste Treatment or Disposal Site

## Site Sensitivity Map - Slice A




## Order Details

| | |
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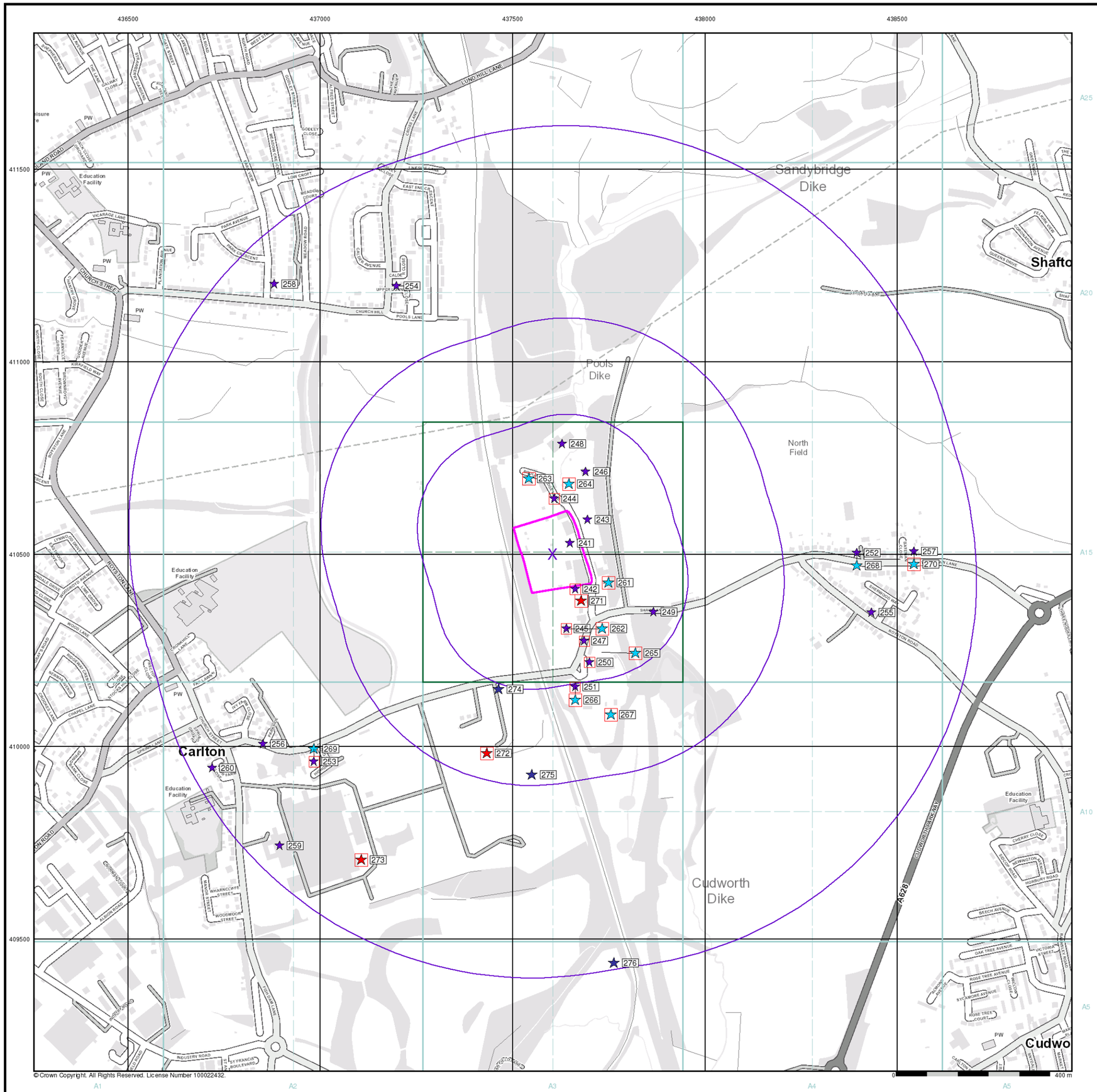
| Order Number: | 140347875_1_1 |
| Customer Ref: | JER6108 |
| National Grid Reference: | 437600, 410500 |
| Slice: | A |
| Site Area (Ha): | 2.93 |
| Search Buffer (m): | 1000 |

## Site Details

WFS Metals,, Boulder Bridge Lane, Carlton, BARNSLEY, S71 3HJ

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



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RPS

# Industrial Land Use Map

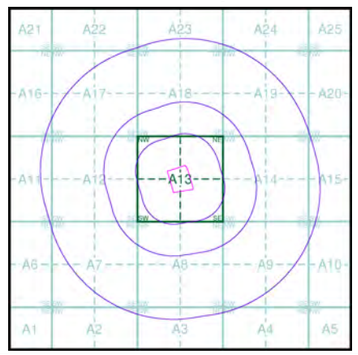
## General

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

## Industrial Land Use

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

## Industrial Land Use Map - Slice A

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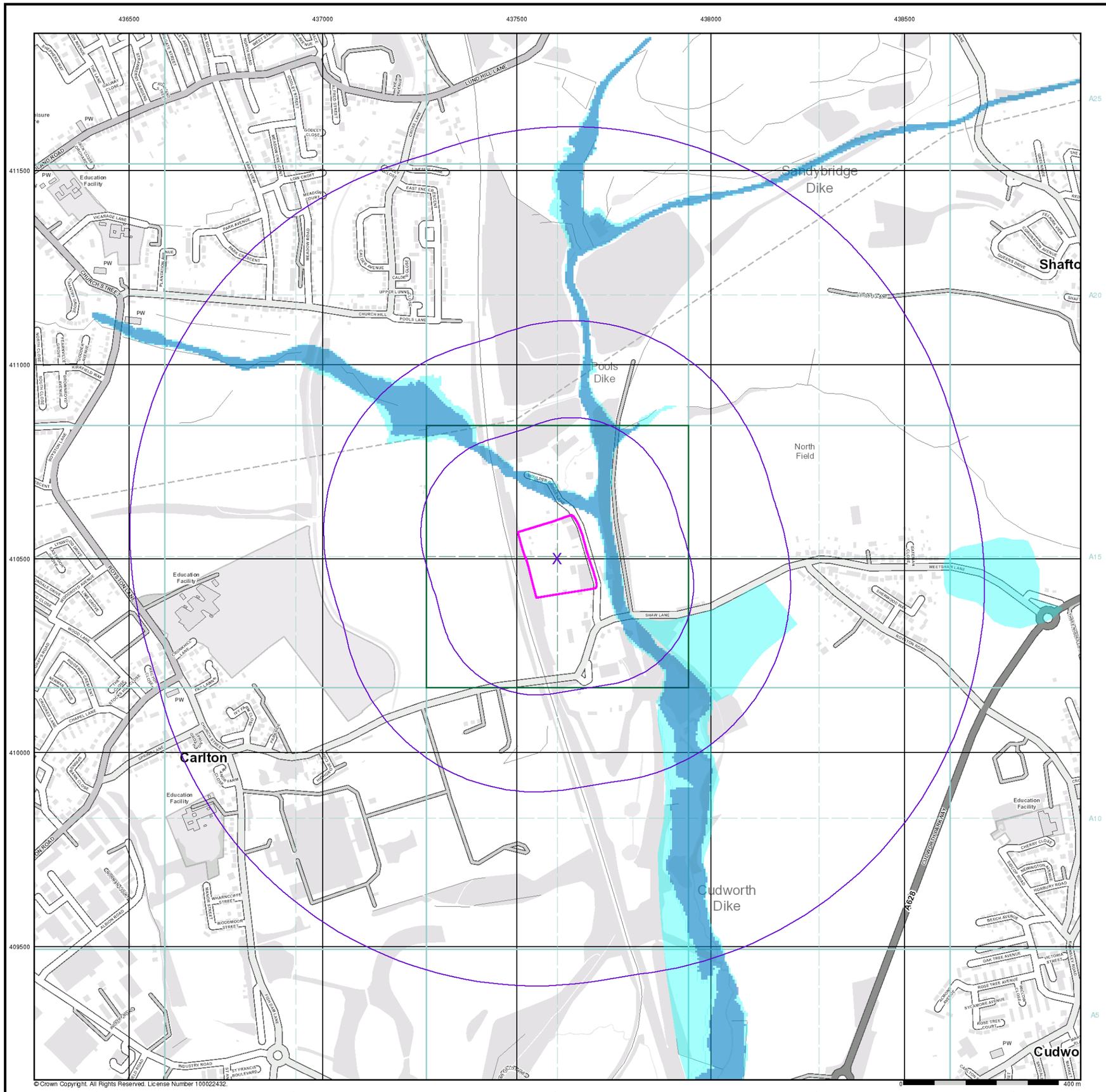


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RPS

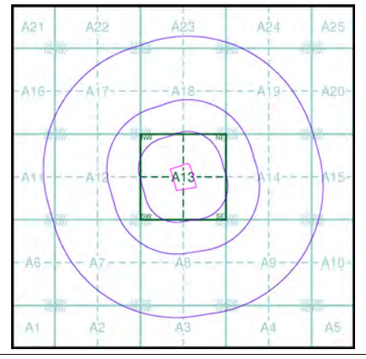
## General

- 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

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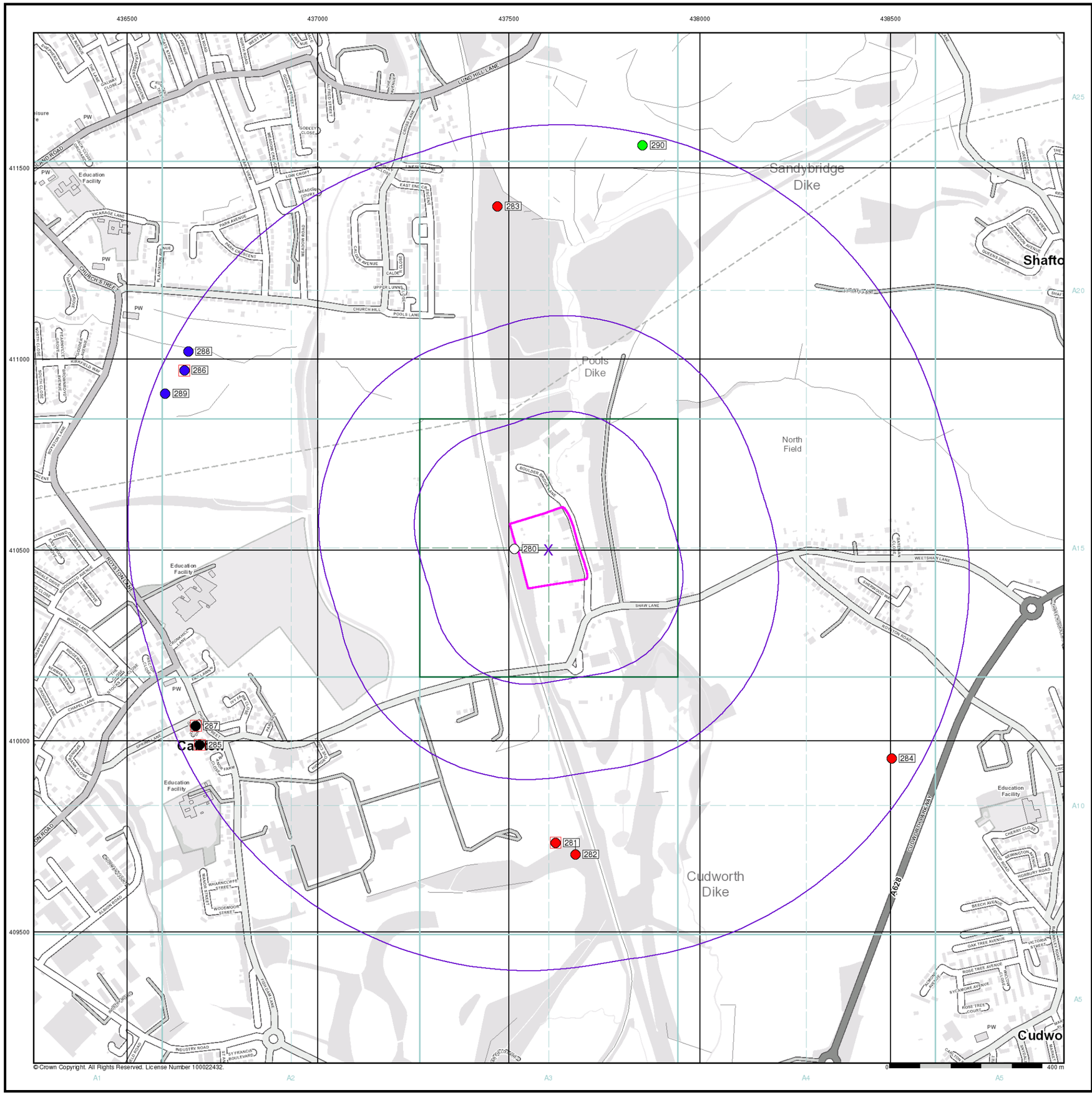


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RPS

## General

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

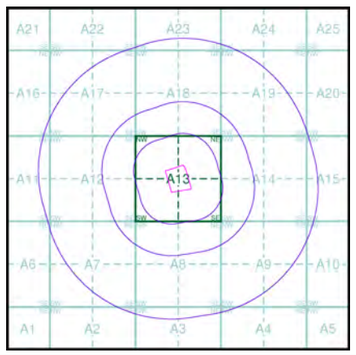
## Agency and Hydrological (Boreholes)

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

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

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

## Borehole Map - Slice A

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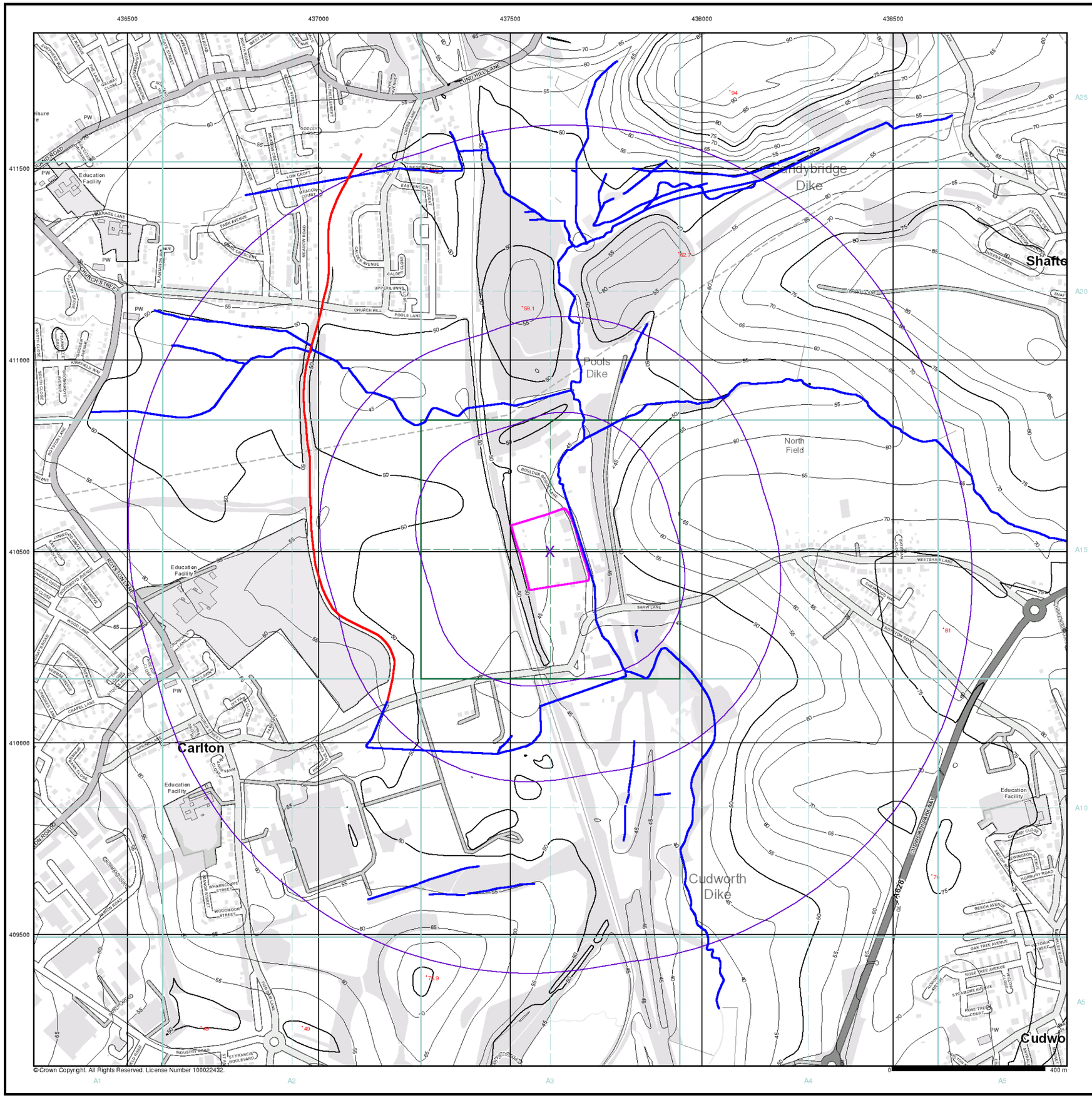


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RPS

## General

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

## OS Water Network Data

- Canal
- Reservoir
- Foreshore
- Marsh
- Tidal River
- Inland River
- Drain
- Other
- Lake
- Transfer
- Lock Or Flight Of Locks
- Sea

## Contours (height in meters)

Standard Contour 105 100 95

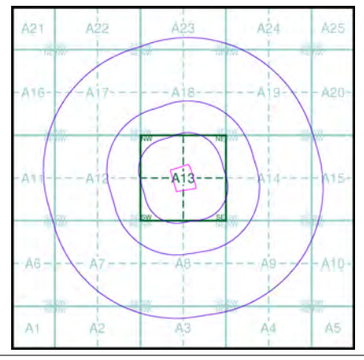
Master Contour

Spot Height 167.3

MLW Mean Low Water

MHW Mean High Water

## OS Water Network Map - Slice A

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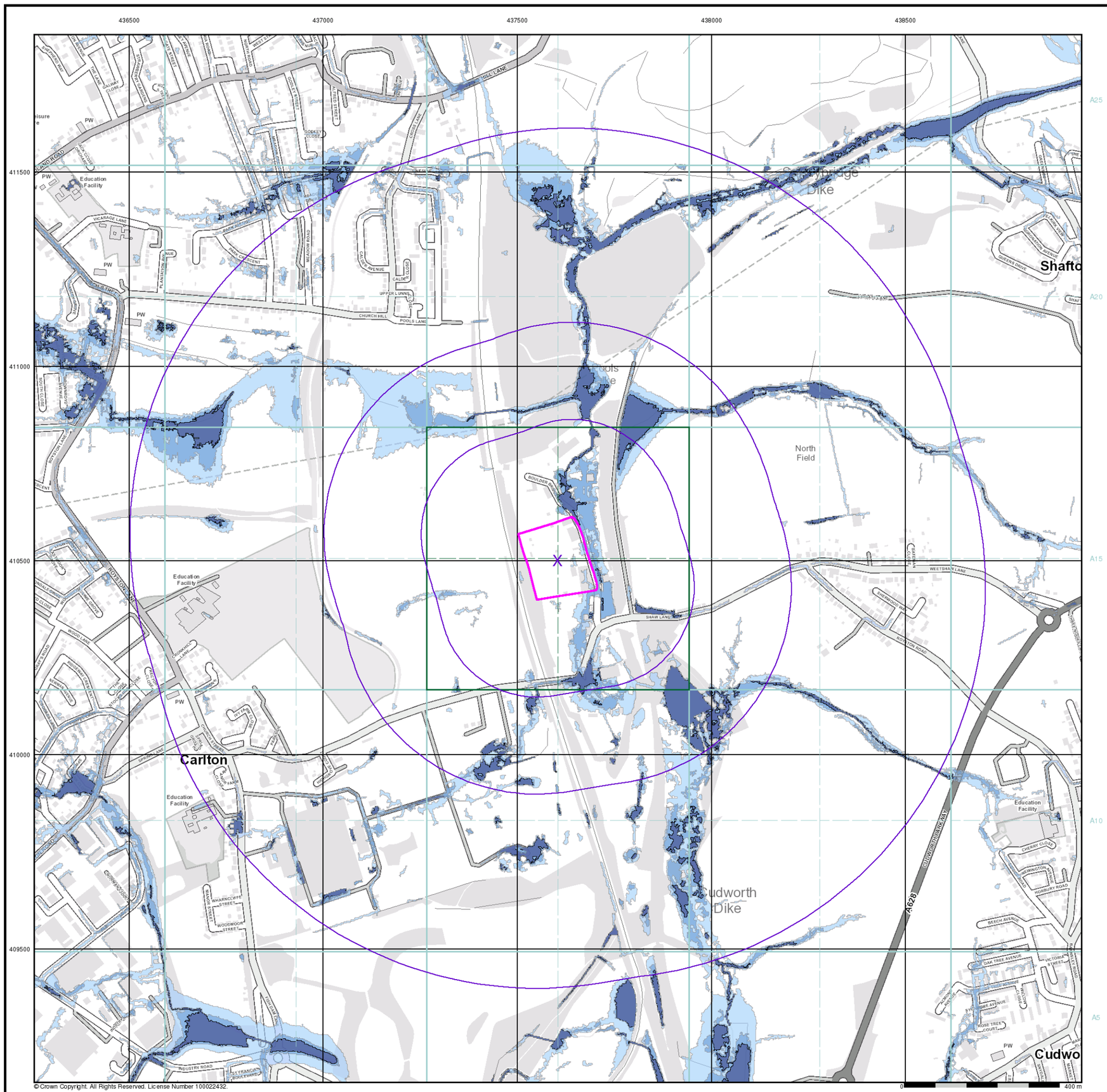



RPS

## General

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

## Risk of Flooding from Surface Water

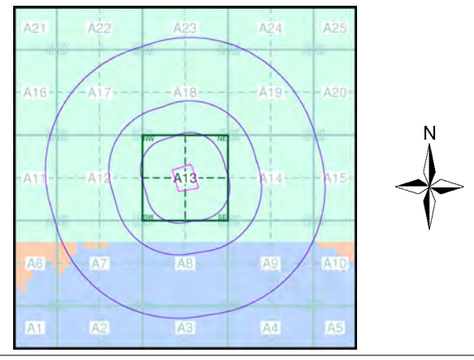
- High - 30 Year Return
- Medium - 100 Year Return
- Low - 1000 Year Return

## Suitability

See the suitability map below

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

## EA/NRW Suitability Map - Slice A

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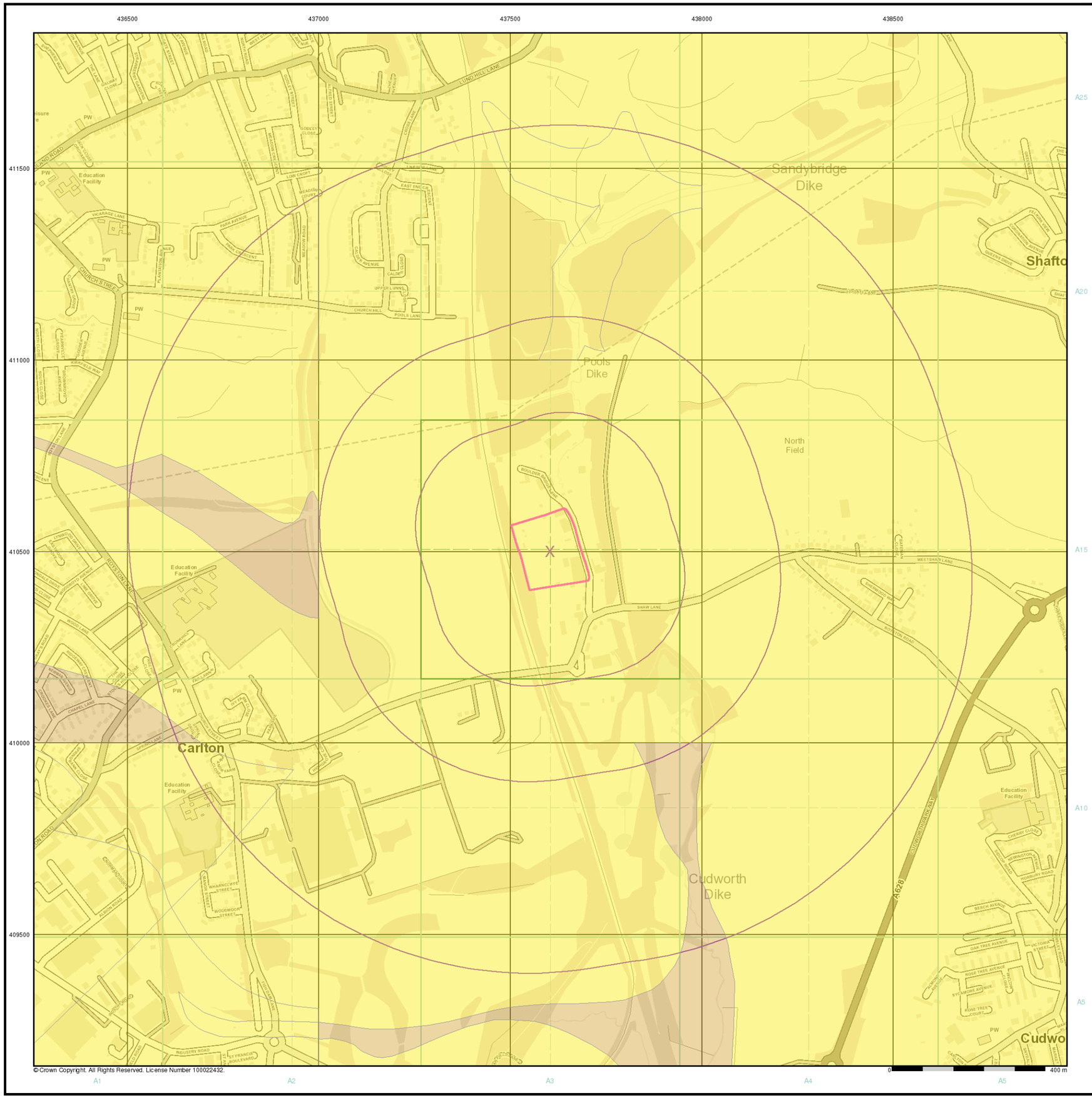

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RPS

## General

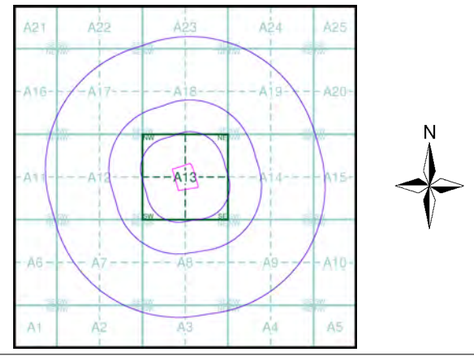
Specified Site | Specified Buffer(s) | X Bearing Reference Point

## 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

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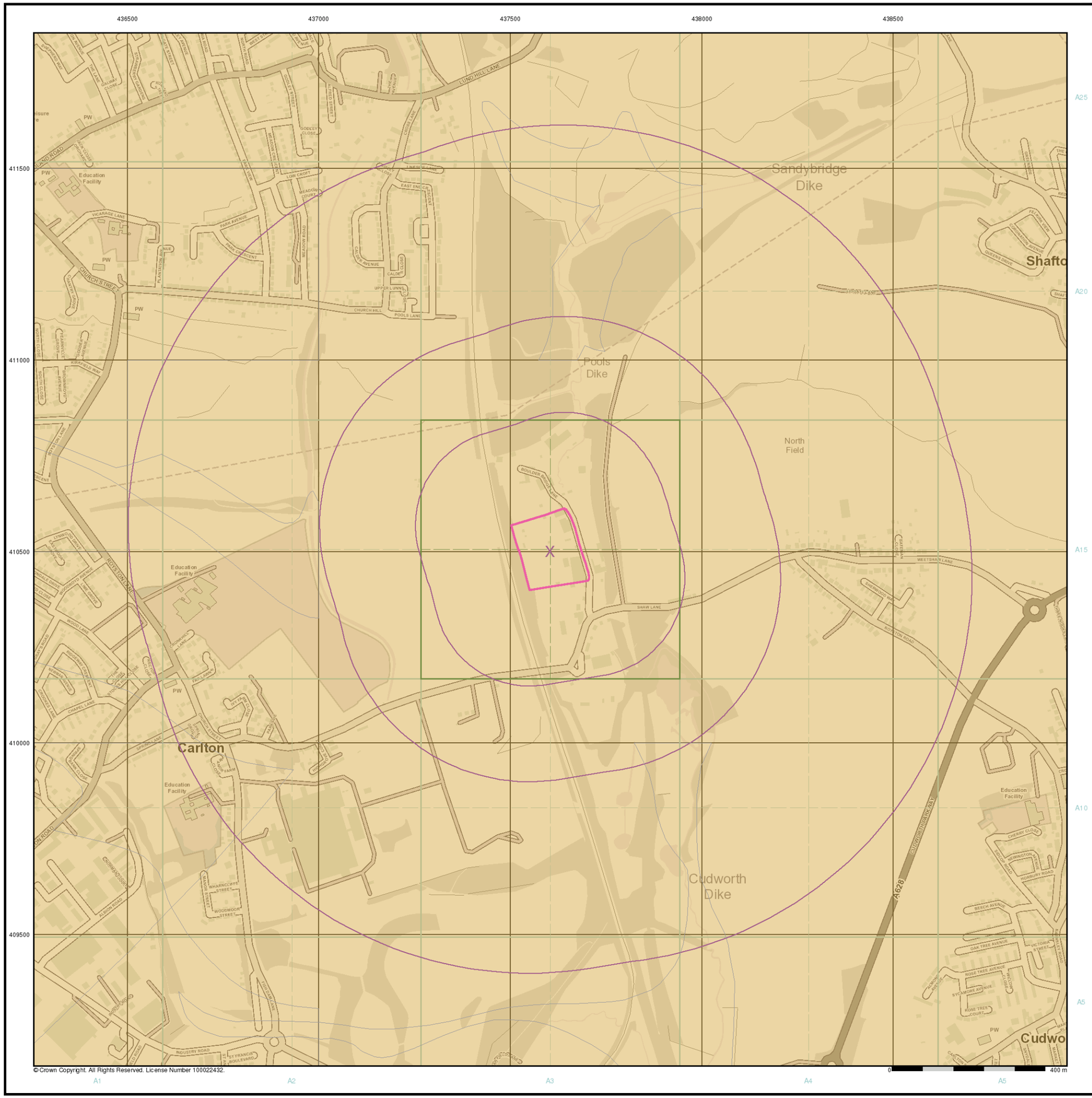



RPS

## General

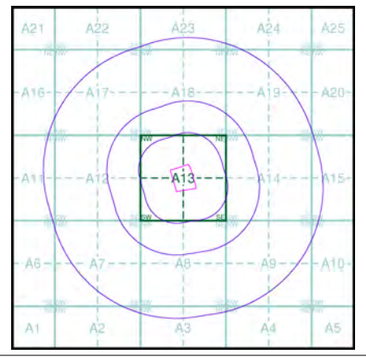
Specified Site | Specified Buffer(s) | X Bearing Reference Point

## 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

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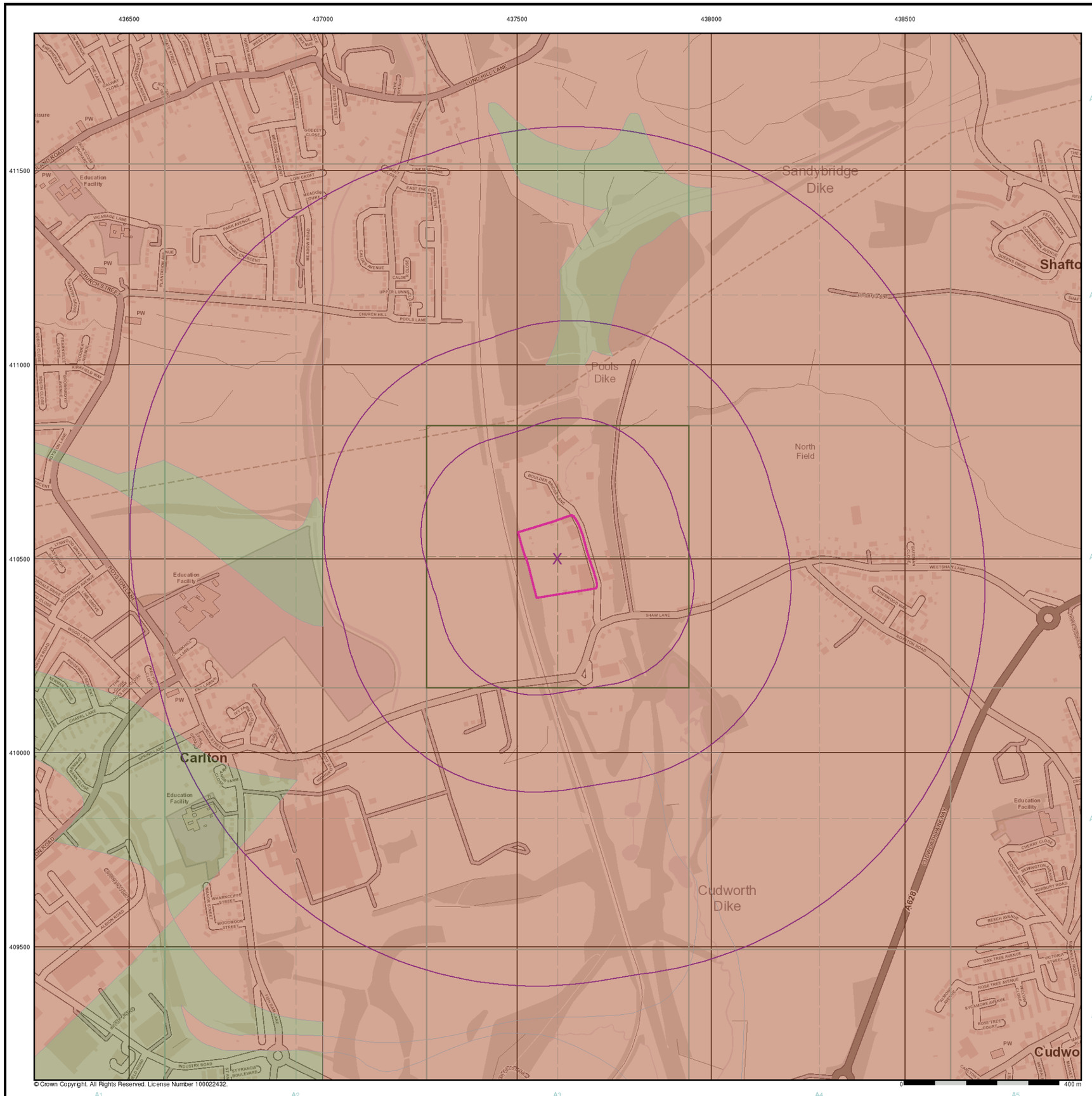

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RPS

## General

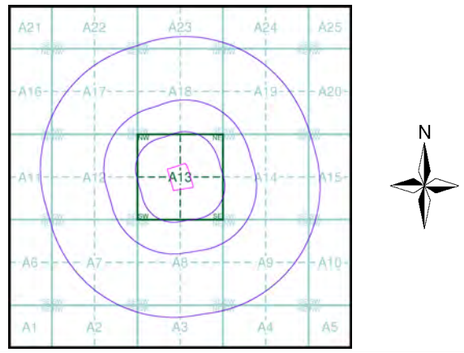
Specified Site | Specified Buffer(s) | X Bearing Reference Point

## Estimated Soil Chemistry Chromium

Chromium Concentrations mg/kg

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

## Estimated Soil Chemistry Chromium - Slice A

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| National Grid Reference: | 437600, 410500 |
| Slice: | A |
| Site Area (Ha): | 2.93 |
| Search Buffer (m): | 1000 |

## Site Details

WFS Metals,, Boulder Bridge Lane, Carlton, BARNSLEY, S71 3HJ

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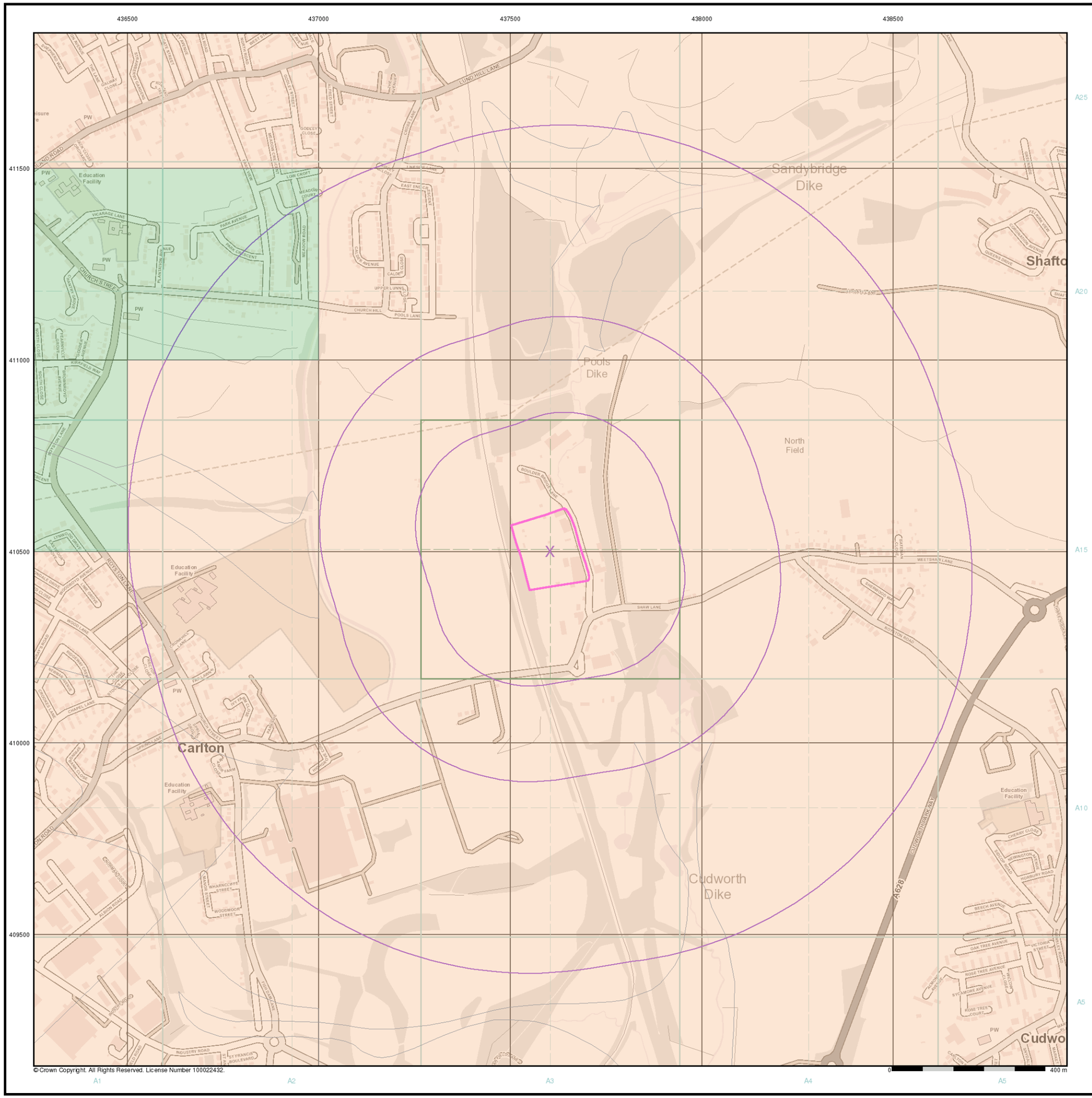



RPS

## General

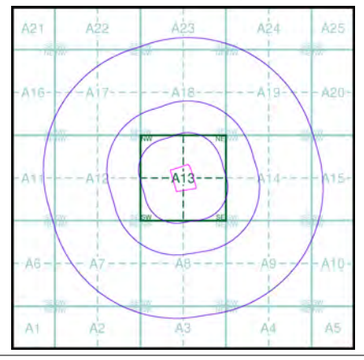
Specified Site | Specified Buffer(s) | X Bearing Reference Point

## Estimated Soil Chemistry Lead

Lead Concentrations mg/kg

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

## Estimated Soil Chemistry Lead - Slice A




## Order Details

| | |
|---|---|
| Order Details: | 140347875_1_1 |
| Customer Ref: | JER6108 |
| National Grid Reference: | 437600, 410500 |
| Slice: | A |
| Site Area (Ha): | 2.93 |
| Search Buffer (m): | 1000 |

## Site Details

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RPS

## General

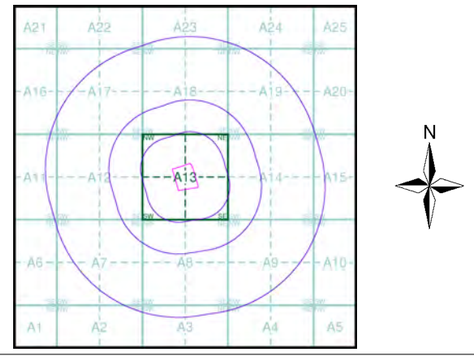
Specified Site | Specified Buffer(s) | X Bearing Reference Point

## Estimated Soil Chemistry Nickel

Nickel Concentrations mg/kg

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

## Estimated Soil Chemistry Nickel - Slice A




## Order Details

| | |
|---|---|
| Order Details: | 140347875_1_1 |
| Customer Ref: | JER6108 |
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| Slice: | A |
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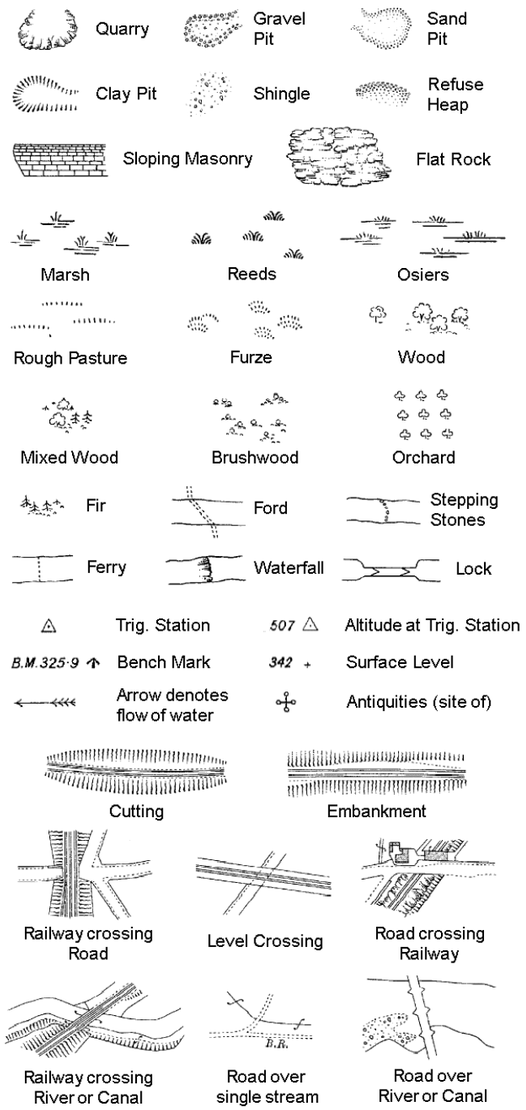
# Historical Mapping Legends

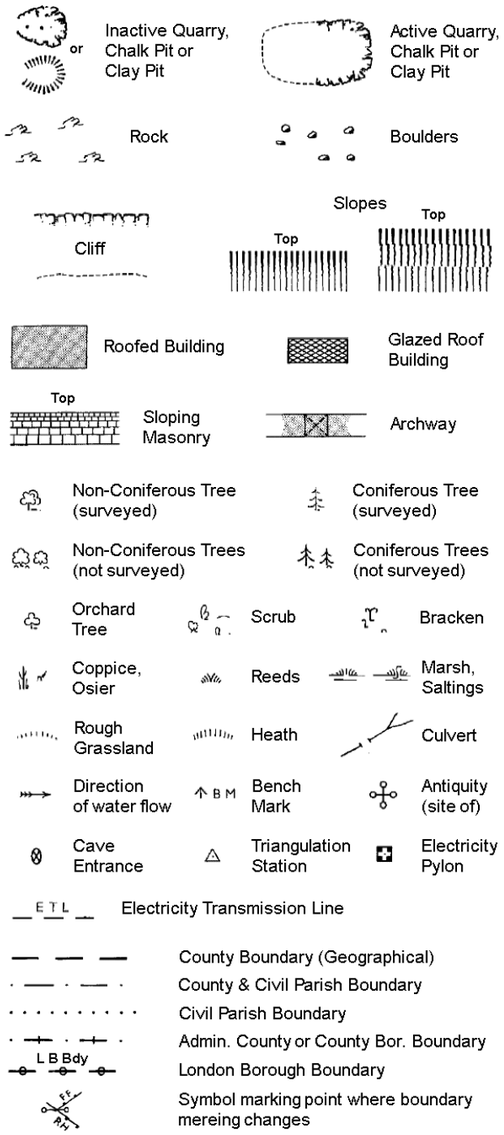
## Ordnance Survey County Series and Ordnance Survey Plan 1:2,500




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)

| | | | |
|---|---|---|---|
| B P B S | Boundary Post or Stone | P.C.B | Police Call Box |
| B.R. | Bridle Road | P | Pump |
| E.P | Electricity Pylon | S.P | Signal Post |
| F.B. | Foot Bridge | St. | Sluice |
| F.P. | Foot Path | Sp. | Spring |
| G.P | Guide Post or Board | T.C.B | Telephone Call Box |
| M.S | Mile Stone | Tr. | Trough |
| M.P M.R | Mooring Post or Ring | W | Well |

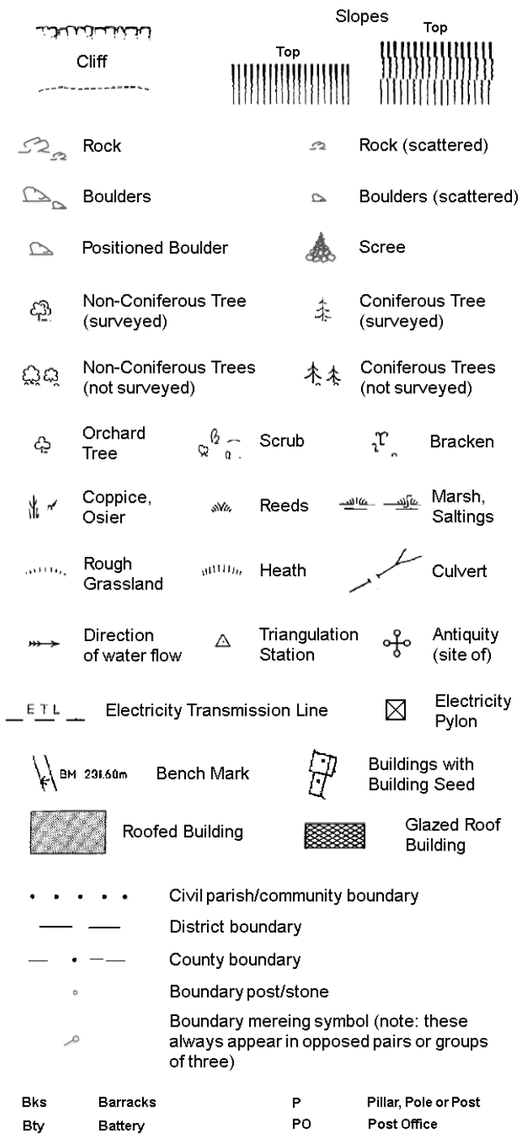
## Ordnance Survey Plan, Additional SIMs and Supply of Unpublished Survey Information 1:2,500 and 1:1,250




County Boundary (Geographical)
County & Civil Parish Boundary
Civil Parish Boundary
Admin. County or County Bor. Boundary
L B Bdy London Borough Boundary
Symbol marking point where boundary mereing changes

| | | | |
|---|---|---|---|
| BH | Beer House | P | Pillar, Pole or Post |
| BP, BS | Boundary Post or Stone | PO | Post Office |
| Cn, C | Capstan, Crane | PC | Public Convenience |
| Chy | Chimney | PH | Public House |
| D Fn | Drinking Fountain | Pp | Pump |
| El P | Electricity Pillar or Post | SB, S Br | Signal Box or Bridge |
| FAP | Fire Alarm Pillar | SP, SL | Signal Post or Light |
| FB | Foot Bridge | Spr | Spring |
| GP | Guide Post | Tk | Tank or Track |
| H | Hydrant or Hydraulic | TCB | Telephone Call Box |
| LC | Level Crossing | TCP | Telephone Call Post |
| MH | Manhole | Tr | Trough |
| MP | Mile Post or Mooring Post | Wr Pt, Wr T | Water Point, Water Tap |
| MS | Mile Stone | W | Well |
| NTL | Normal Tidal Limit | Wd Pp | Wind Pump |

## Large-Scale National Grid Data 1:2,500 and 1:1,250




Civil parish/community boundary
District boundary
County boundary
Boundary post/stone
Boundary mereing symbol (note: these always appear in opposed pairs or groups of three)

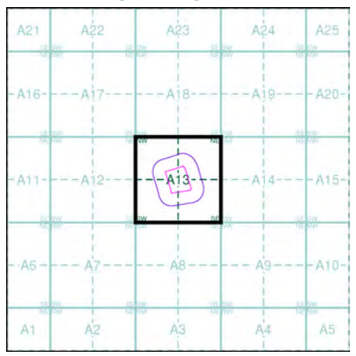
| | | | |
|---|---|---|---|
| Bks | Barracks | P | Pillar, Pole or Post |
| Bty | Battery | PO | Post Office |
| Cemy | Cemetery | PC | Public Convenience |
| Chy | Chimney | Pp | Pump |
| Cis | Cistern | Ppg Sta | Pumping Station |
| Dismtd Rly | Dismantled Railway | PW | Place of Worship |
| El Gen Sta | Electricity Generating Station | Sewage Ppg Sta | Sewage Pumping Station |
| El P | Electricity Pole, Pillar | SB, S Br | Signal Box or Bridge |
| El Sub Sta | Electricity Sub Station | SP, SL | Signal Post or Light |
| FB | Filter Bed | Spr | Spring |
| Fn / D Fn | Fountain / Drinking Ftn. | Tk | Tank or Track |
| Gas Gov | Gas Valve Compound | Tr | Trough |
| GVC | Gas Governer | Wd Pp | Wind Pump |
| GP | Guide Post | Wr Pt, Wr T | Water Point, Water Tap |
| MH | Manhole | Wks | Works (building or area) |
| MP, MS | Mile Post or Mile Stone | W | Well |

RPS

## Historical Mapping & Photography included:

| Mapping Type | Scale | Date | Pg |
|---|---|---|---|
| Yorkshire | 1:2,500 | 1893 | 2 |
| Yorkshire | 1:2,500 | 1906 | 3 |
| Yorkshire | 1:2,500 | 1917 | 4 |
| Ordnance Survey Plan | 1:2,500 | 1962 | 5 |
| Ordnance Survey Plan | 1:2,500 | 1981 | 6 |
| Additional SIMs | 1:2,500 | 1991 | 7 |
| Large-Scale National Grid Data | 1:2,500 | 1993 | 8 |
| Historical Aerial Photography | 1:2,500 | 1999 | 9 |

## Historical Map - Segment A13




## Order Details

Order Number: 140347875_1_1
Customer Ref: JER6108
National Grid Reference: 437600, 410500
Slice: A
Site Area (Ha): 2.93
Search Buffer (m): 100

## Site Details

WFS Metals,, Boulder Bridge Lane, Carlton, BARNSLEY, S71 3HJ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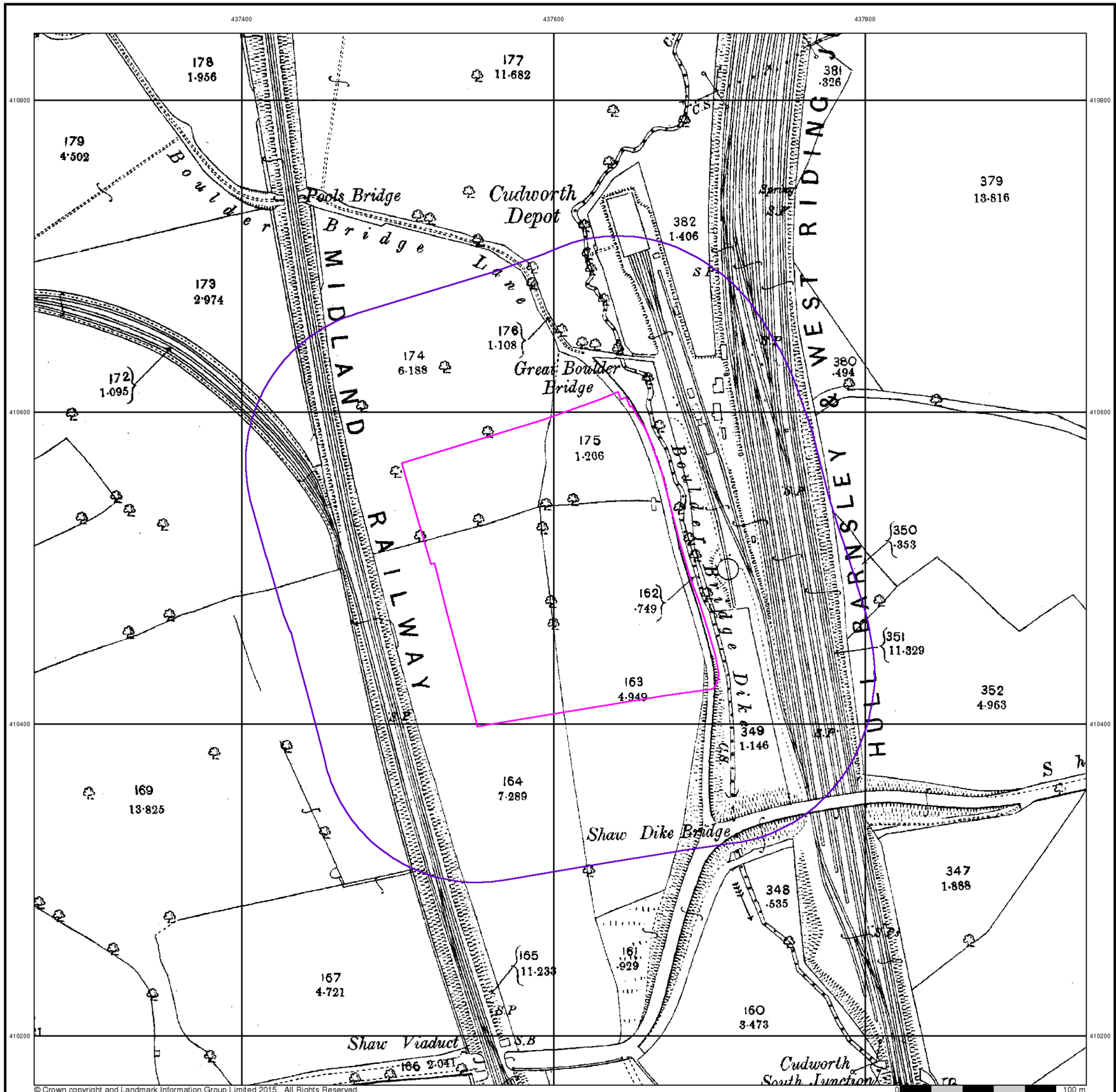


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RPS

## Yorkshire

## Published 1893

## Source map scale - 1:2,500

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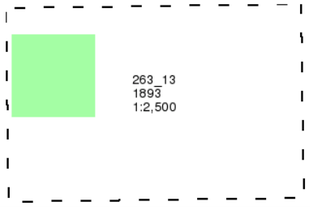
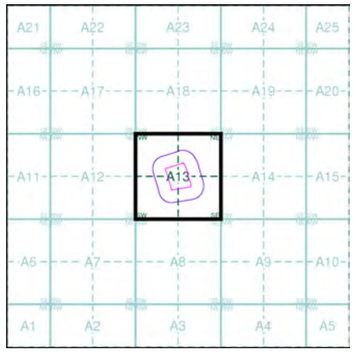
## Map Name(s) and Date(s)




## Historical Map - Segment A13




## Order Details

| | |
|---|---|
| Order Number: | 140347875_1_1 |
| Customer Ref: | JER6108 |
| National Grid Reference: | 437600, 410500 |
| Slice: | A |
| Site Area (Ha): | 2.93 |
| Search Buffer (m): | 100 |

## Site Details

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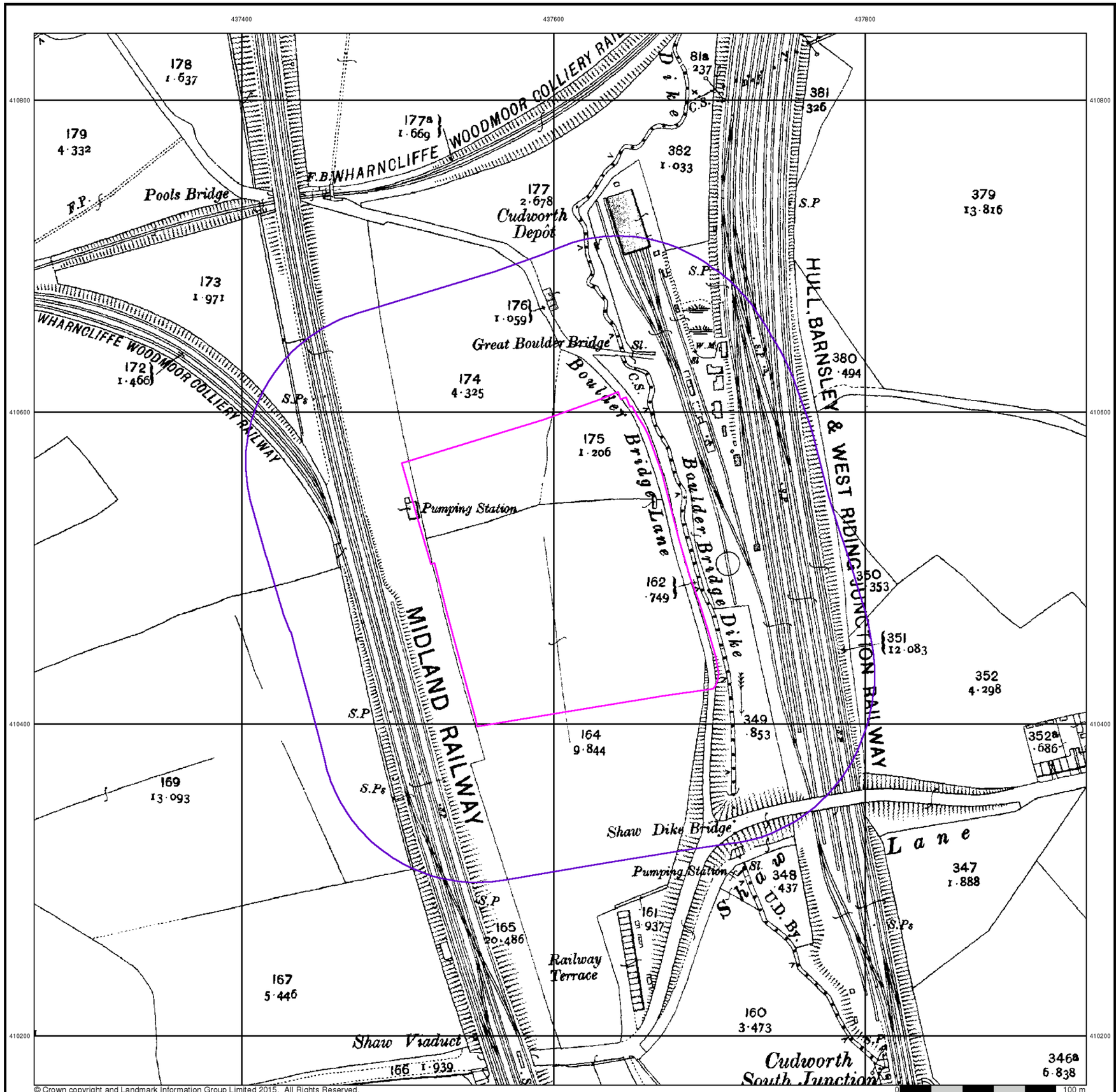

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RPS

## Yorkshire

**Published 1906**

**Source map scale - 1:2,500**

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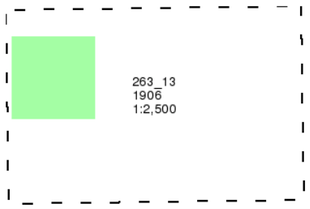
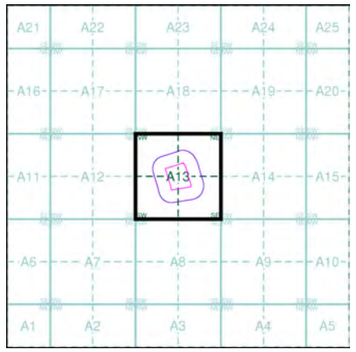
## Map Name(s) and Date(s)




## Historical Map - Segment A13




## Order Details

| | |
|---|---|
| Order Number: | 140347875_1_1 |
| Customer Ref: | JER6108 |
| National Grid Reference: | 437600, 410500 |
| Slice: | A |
| Site Area (Ha): | 2.93 |
| Search Buffer (m): | 100 |

## Site Details

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RPS

## Yorkshire

## Published 1917

## Source map scale - 1:2,500

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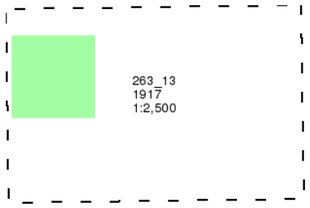
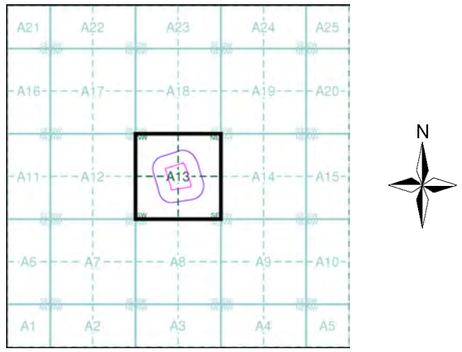
## Map Name(s) and Date(s)




## Historical Map - Segment A13




## Order Details

| | |
|---|---|
| Order Number: | 140347875_1_1 |
| Customer Ref: | JER6108 |
| National Grid Reference: | 437600, 410500 |
| Slice: | A |
| Site Area (Ha): | 2.93 |
| Search Buffer (m): | 100 |

## Site Details

WFS Metals,, Boulder Bridge Lane, Carlton, BARNSLEY, S71 3HJ

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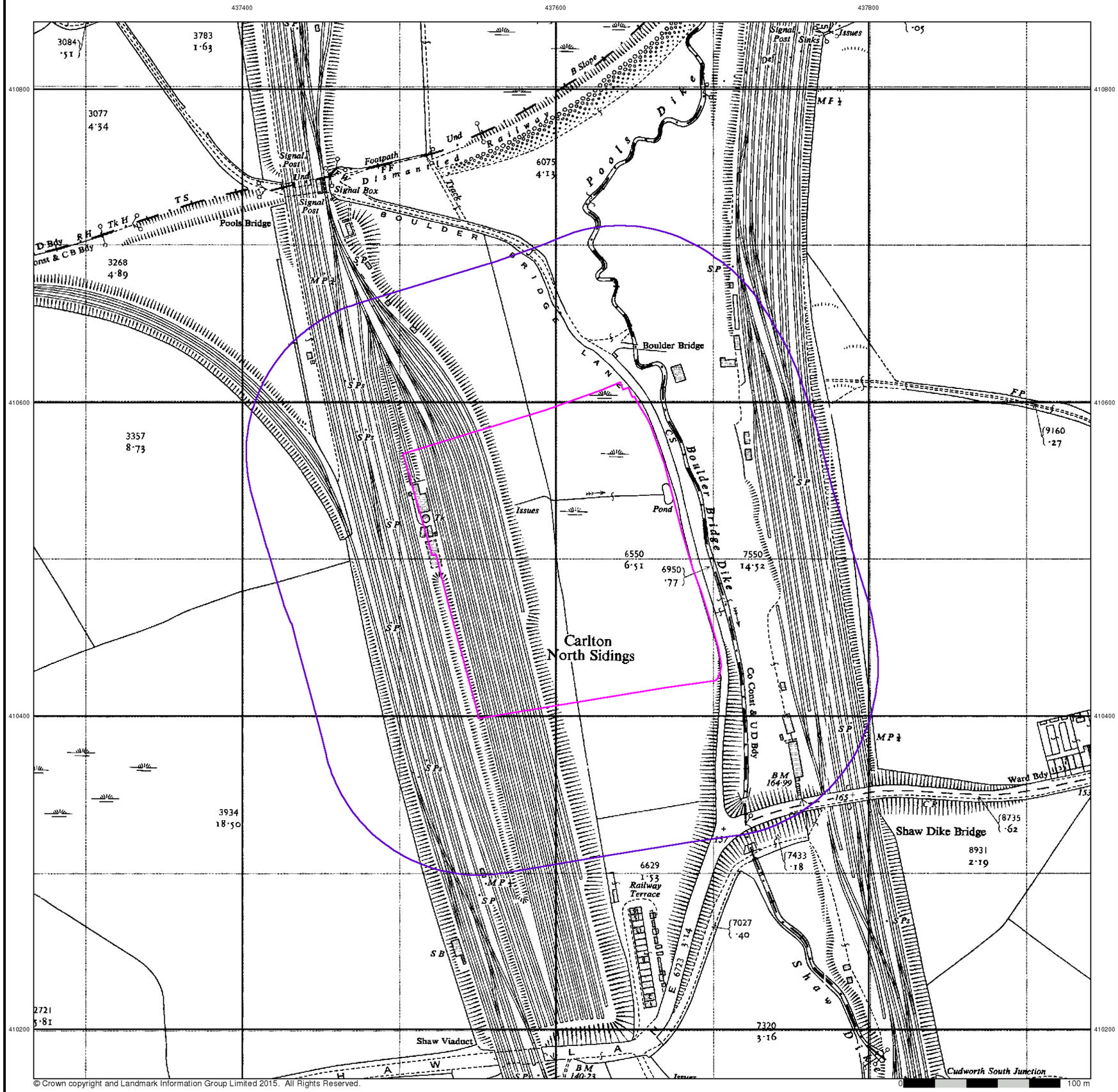


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RPS

## Ordnance Survey Plan

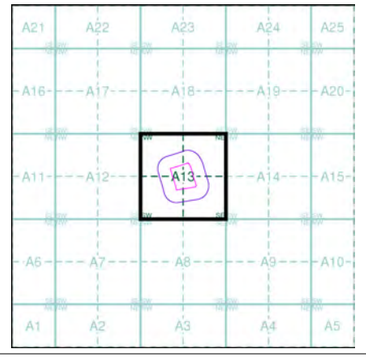
**Published 1962**

**Source map scale - 1:2,500**

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 and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below 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.

## Map Name(s) and Date(s)

## Historical Map - Segment A13




## Order Details

| | |
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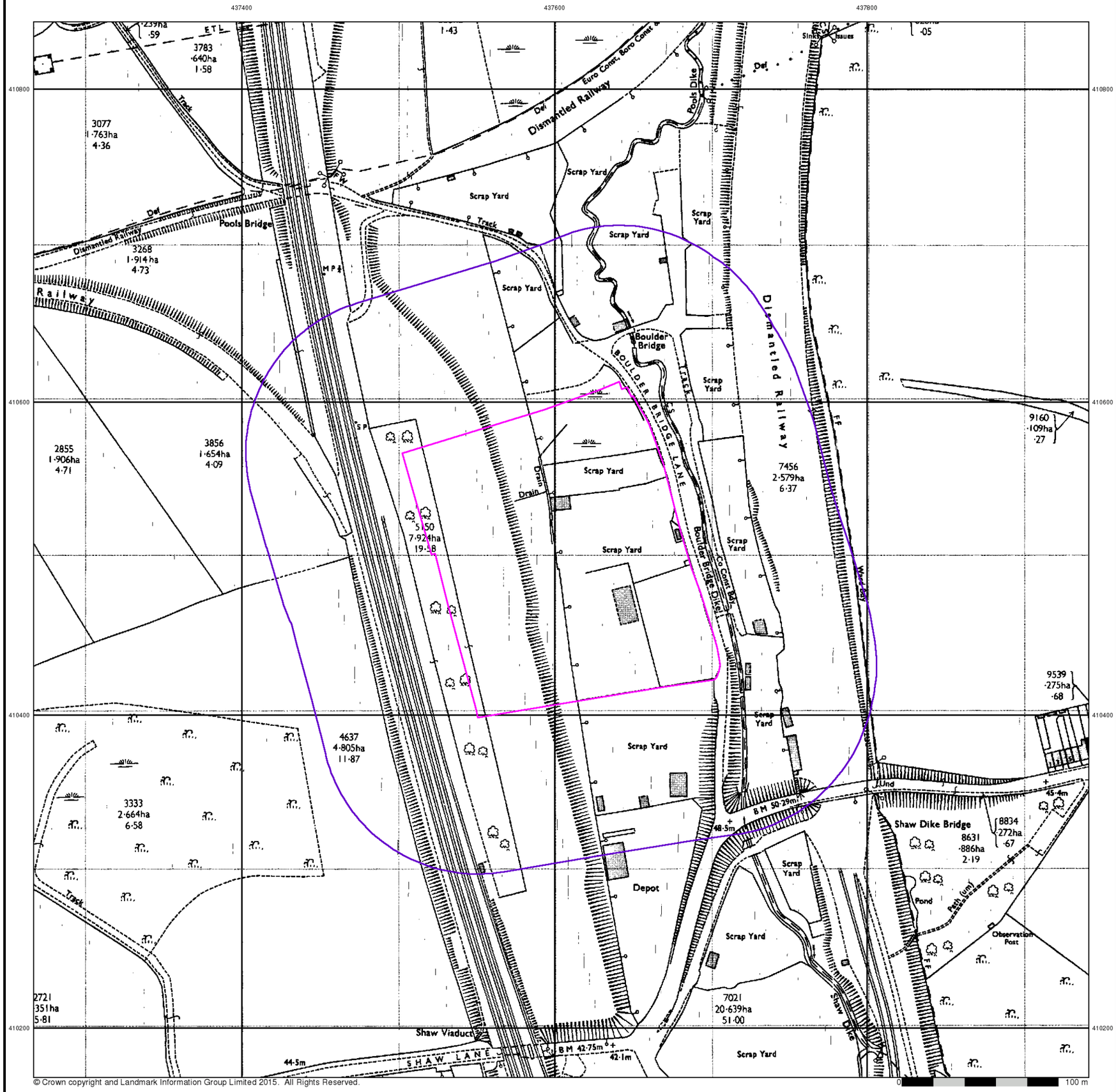

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RPS

## Ordnance Survey Plan

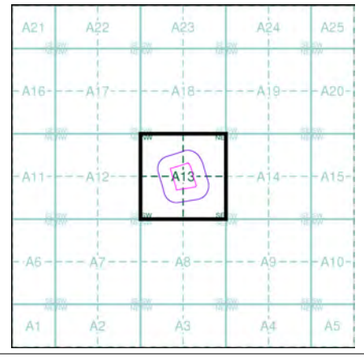
**Published 1981**

**Source map scale - 1:2,500**

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 and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below 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.

## Map Name(s) and Date(s)

## Historical Map - Segment A13

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|---|---|
| Order Number: | 140347875_1_1 |
| Customer Ref: | JER6108 |
| National Grid Reference: | 437600, 410500 |
| Slice: | A |
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| Search Buffer (m): | 100 |

## Site Details

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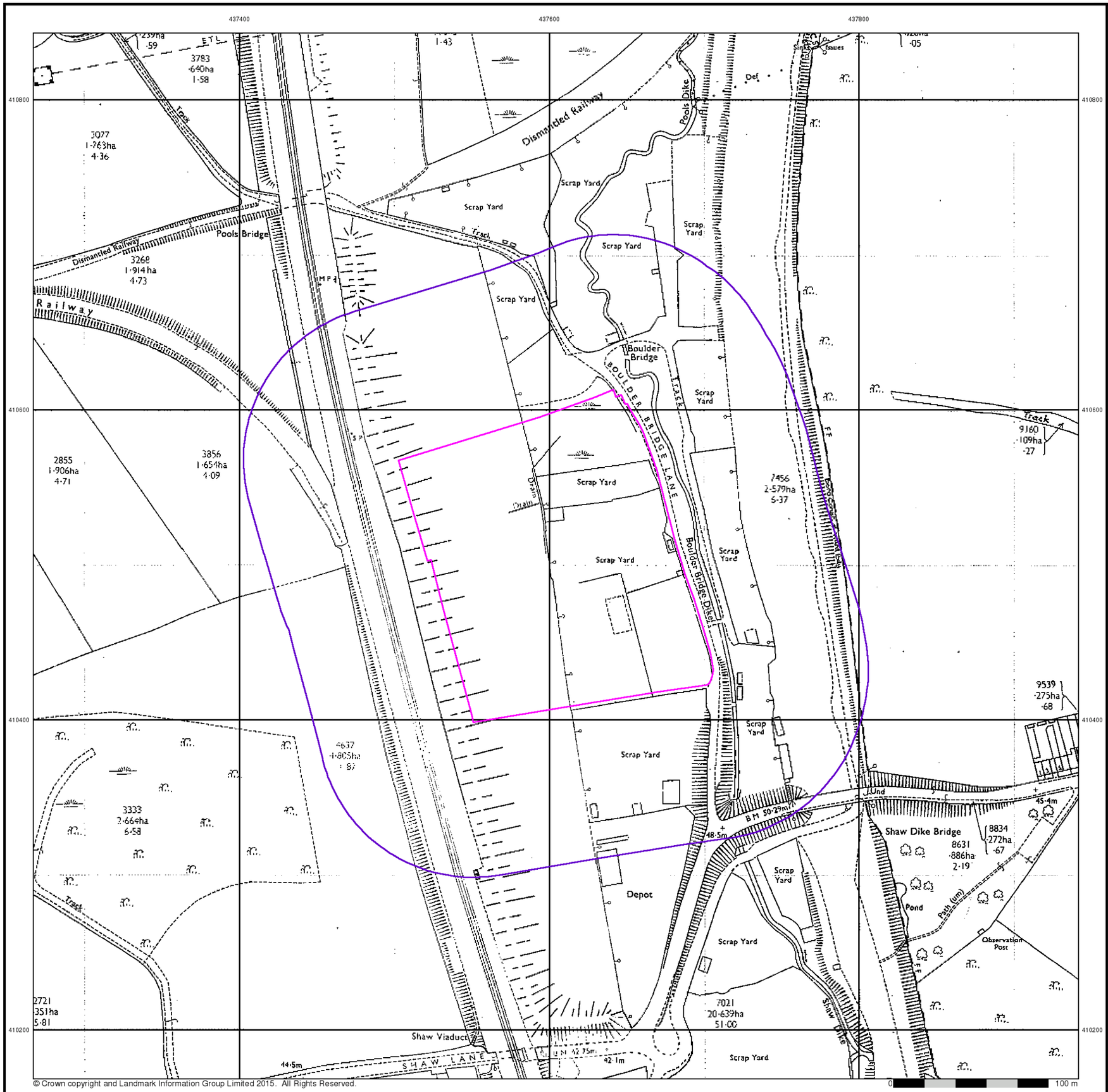


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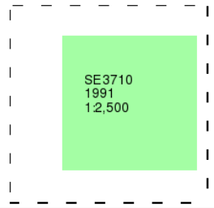
## Additional SIMs

**Published 1991**

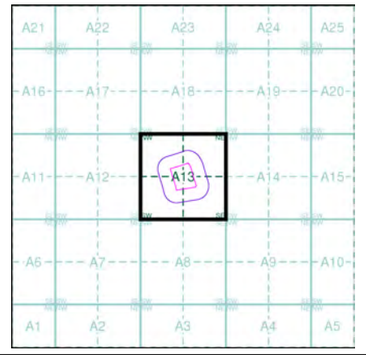
**Source map scale - 1:2,500**

The SIM cards (Ordnance Survey's `Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

## Map Name(s) and Date(s)




## Historical Map - Segment A13

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RPS

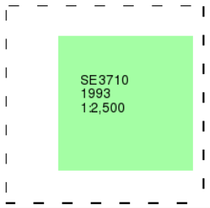
## Large-Scale National Grid Data

**Published 1993**

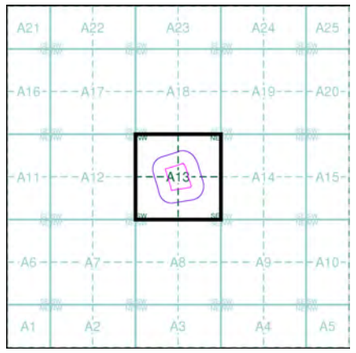
**Source map scale - 1:2,500**

'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

## Map Name(s) and Date(s)




## Historical Map - Segment A13




## Order Details

| | |
|---|---|
| Order Number: | 140347875_1_1 |
| Customer Ref: | JER6108 |
| National Grid Reference: | 437600, 410500 |
| Slice: | A |
| Site Area (Ha): | 2.93 |
| Search Buffer (m): | 100 |

## Site Details

WFS Metals,, Boulder Bridge Lane, Carlton, BARNSLEY, S71 3HJ

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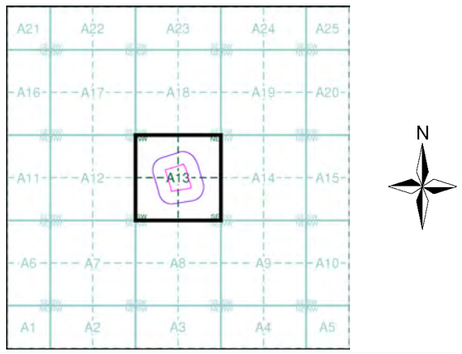
# Historical Aerial Photography

## Published 1999

This aerial photography was produced by Getmapping, these vertical aerial photographs provide a seamless, full colour survey of the whole of Great Britain

## Historical Aerial Photography - Segment A13




## Order Details

| | |
|---|---|
| Order Number: | 140347875_1_1 |
| Customer Ref: | JER6108 |
| National Grid Reference: | 437600, 410500 |
| Slice: | A |
| Site Area (Ha): | 2.93 |
| Search Buffer (m): | 100 |

## Site Details

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

# Appendix B

## 2018 Ground Investigation Information

| | | | | |
|---|---|---|---|---|
| RPS | Contract Name: Project CHOP | | Client: SIMS Metals Management | Borehole ID: WS01 |
| | Contract Number: JER6108-CH | Start Date: 07/02/2018 | End Date: 07/02/2018 | Checked By: L.W | Status: DRAFT | Sheet 1 of 1 |
| Windowless Borehole Log | Easting: 437668.3 | Northing: 410506.7 | Ground Level: 44.13mOD | Plant Used: Dando Terrier | Logged By: O.G | Scale: 1:50 |
| Weather: Dry, clear, no breeze | | Termination: Terminated at 3.80 mbgl due to hard strata. | | | | |

| Samples & In Situ Testing | | | | Strata Details | | | | Groundwater | |
|---|---|---|---|---|---|---|---|---|---|
| Depths | Type/ Ref | SPT | Testing | Level (mAOD) | Depth (m) (Thickness) | Legend | Strata Description | Water Strike | Backfill/ Installation |
| | | | | | (0.36) | | Reinforced concrete slab. CONCRETE | | |
| | | | | 43.77 | 0.36 | | | | |
| | | | | | (0.34) | | Greyish brown clayey sandy angular fine to coarse GRAVEL of brick, concrete, ash and metal. MADE GROUND | | |
| 0.70 | ES | | PID 0.70m, 0.2ppm | 43.43 | 0.70 | | | | |
| | | | | | (0.30) | | Red brick. MADE GROUND | | |
| | | | | 43.13 | 1.00 | | | | |
| | | | | 42.93 | 1.20 | | Greyish brown clayey sandy angular fine to coarse GRAVEL of brick, concrete, ash and metal. MADE GROUND | | |
| | | | | 42.83 | 1.30 | | Red brick. MADE GROUND | | |
| | | | | 42.63 | 1.50 | | Greyish brown clayey sandy angular fine to coarse GRAVEL of brick, concrete and ash. MADE GROUND | | |
| 1.60 | ES | | PID 1.60m, 1.1ppm | | | | | | |
| | | | | | (1.50) | | Firm dark grey mottled orange brown sandy gravelly peaty CLAY. Gravel is angular fine to coarse mudstone. Peat is pseudofibrous. ALLUVIUM | | |
| | | | | 41.13 | 3.00 | | Orangish brown clayey sandy angular fine to coarse GRAVEL of mudstone. Sand is fine to coarse. GLACIAL TILL | | |
| | | | | | (0.70) | | | | |
| | | | | 40.43 | 3.70 | | Destructured stiff sandy gravelly clay with selenite crystals. Gravel is angular fine to coarse mudstone lithorelicts. PENNINE MIDDLE COAL MEASURES FORMATION | | |
| | | | | 40.33 | 3.80 | | End of Borehole at 3.80m | | |

1 2 3 4 5 6 7 8 9 10

| Start & End of Shift Observations | | | | |
|---|---|---|---|---|
| Date | Time | Depth (m) | Casing (m) | Water (m) |

| Installation | | | | |
|---|---|---|---|---|
| Ref | Top (m) | Base (m) | Type | Diameter (mm) |
| 1 | 0.00 | 3.00 | PLAIN | 50 |
| 1 | 3.00 | 3.80 | SLOTTED | 50 |

Remarks:
Perched groundwater encountered at 0.4 mbgl.

| Windowless Sample Run Details | | | | |
|---|---|---|---|---|
| Test Number | Diameter (mm) | Depth Top (m) | Depth Base (m) | Recovery (%) |
| 1 | 85 | 1.20 | 2.00 | 100 |
| 2 | 85 | 2.00 | 3.00 | 100 |
| 3 | 75 | 3.00 | 3.80 | 100 |

| Casing | |
|---|---|
| Depth (m) | Diameter (mm) |

| Water Strikes | | | | | |
|---|---|---|---|---|---|
| Strike (m) | Casing (m) | Sealed (m) | Time (mins) | Rose to (m) | Remarks |

| | | | | | | |
|---|---|---|---|---|---|---|
| RPS | Contract Name: Project CHOP | | Client: SIMS Metals Management | | | Borehole ID: WS02 |
| | Contract Number: JER6108-CH | Start Date: 06/02/2018 | End Date: 06/02/2018 | Checked By: L.W | Status: DRAFT | Sheet 1 of 1 |
| Windowless Borehole Log | Easting: 437645.3 | Northing: 410496.8 | Ground Level: 44.18mOD | Plant Used: Dando Terrier | Logged By: O.G | Scale: 1:50 |
| Weather: Cold, light snow showers, slight breeze | Termination: Terminated at 0.70 mbgl due to concrete obstruction. | | | | | |

| Samples & In Situ Testing | | | | Strata Details | | | | Groundwater | |
|---|---|---|---|---|---|---|---|---|---|
| Depths | Type/ Ref | SPT | Testing | Level (mAOD) | Depth (m) (Thickness) | Legend | Strata Description | Water Strike | Backfill/ Installation |
| | | | | 43.96 | 0.22 | | Reinforced concrete slab. CONCRETE | | |
| | | | | | (0.48) | | Greyish light brown sandy gravel with high cobble content. Gravel and cobbles are angular fine to coarse concrete. MADE GROUND | | |
| | | | | 43.48 | 0.70 | | End of Borehole at 0.70m | | |

1 2 3 4 5 6 7 8 9 10

| Start & End of Shift Observations | | | | |
|---|---|---|---|---|
| Date | Time | Depth (m) | Casing (m) | Water (m) |
| | | | | |

| Installation | | | | |
|---|---|---|---|---|
| Ref | Top (m) | Base (m) | Type | Diameter (mm) |
| | | | | |

Remarks:

Perched groundwater encountered at 0.3 mbgl. Exploratory Hole terminated due to concrete obstruction.

| Windowless Sample Run Details | | | | |
|---|---|---|---|---|
| Test Number | Diameter (mm) | Depth Top (m) | Depth Base (m) | Recovery (%) |
| | | | | |

| Casing | |
|---|---|
| Depth (m) | Diameter (mm) |
| | |

| Water Strikes | | | | | |
|---|---|---|---|---|---|
| Strike (m) | Casing (m) | Sealed (m) | Time (mins) | Rose to (m) | Remarks |
| | | | | | |

| | | | | |
|---|---|---|---|---|
| RPS | Contract Name: Project CHOP | | Client: SIMS Metals Management | Borehole ID: WS03 |
| | Contract Number: JER6108-CH | Start Date: 07/02/2018 | End Date: 07/02/2018 | Checked By: L.W | Status: DRAFT | Sheet 1 of 1 |
| Windowless Borehole Log | Easting: 437641.5 | Northing: 410455.6 | Ground Level: 44.23mOD | Plant Used: Dando Terrier | Logged By: O.G | Scale: 1:50 |
| Weather: Dry, clear, no breeze | | Termination: Terminated at 3.80 mbgl due to hard strata. | | | | |

| Samples & In Situ Testing | | | | Strata Details | | | | Groundwater | |
|---|---|---|---|---|---|---|---|---|---|
| Depths | Type/ Ref | SPT | Testing | Level (mAOD) | Depth (m) (Thickness) | Legend | Strata Description | Water Strike | Backfill/ Installation |
| | | | | 44.03 | 0.20 | | Reinforced concrete slab. CONCRETE | | |
| 0.50 | ES | | PID 0.50m, 0.4ppm | | (0.60) | | Dark grey clayey sandy angular fine to coarse GRAVEL of brick, concrete, ash, wood, metal and plastic. Moderate hydrocarbon odour noted. MADE GROUND | | |
| | | | | 43.43 | 0.80 | | | | |
| 0.90 | ES | | PID 0.90m, 0.9ppm | 43.23 | 1.00 | | Firm to stiff brownish dark grey sandy gravelly CLAY. Sand is fine to coarse. Gravel is angular fine to coarse mudstone, brick, concrete and ash. MADE GROUND | | |
| 1.50 | ES | | PID 1.50m, 0.4ppm | | (2.80) | | Soft to firm becoming firm to stiff with depth brownish dark grey organic sandy gravelly peaty CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse mudstone. Peat is pseudofibrous. ALLUVIUM | | |
| | | | | 40.43 | 3.80 | | End of Borehole at 3.80m | | |

1 2 3 4 5 6 7 8 9 10

| Start & End of Shift Observations | | | | |
|---|---|---|---|---|
| Date | Time | Depth (m) | Casing (m) | Water (m) |

| Installation | | | | |
|---|---|---|---|---|
| Ref | Top (m) | Base (m) | Type | Diameter (mm) |
| 1 | 0.00 | 1.00 | PLAIN | 50 |
| 1 | 1.00 | 3.80 | SLOTTED | 50 |

Remarks:
No groundwater encountered,

| Windowless Sample Run Details | | | | |
|---|---|---|---|---|
| Test Number | Diameter (mm) | Depth Top (m) | Depth Base (m) | Recovery (%) |
| 1 | 85 | 1.20 | 2.00 | 100 |
| 2 | 85 | 2.00 | 3.00 | 100 |
| 3 | 75 | 3.00 | 3.80 | 100 |

| Casing | |
|---|---|
| Depth (m) | Diameter (mm) |

| Water Strikes | | | | | |
|---|---|---|---|---|---|
| Strike (m) | Casing (m) | Sealed (m) | Time (mins) | Rose to (m) | Remarks |

| | | | | |
|---|---|---|---|---|
| RPS | Contract Name: Project CHOP | | Client: SIMS Metals Management | Borehole ID: WS04 |
| | Contract Number: JER6108-CH | Start Date: 07/02/2018 | End Date: 07/02/2018 | Checked By: L.W | Status: DRAFT | Sheet 1 of 1 |
| Windowless Borehole Log | Easting: 437615.6 | Northing: 410471.3 | Ground Level: 44.45mOD | Plant Used: Dando Terrier | Logged By: O.G | Scale: 1:50 |
| Weather: Dry, clear, no breeze | | Termination: Terminated at 3.80 mbgl due to hard strata. | | | | |

| Samples & In Situ Testing | | | | Strata Details | | | | Groundwater | |
|---|---|---|---|---|---|---|---|---|---|
| Depths | Type/ Ref | SPT | Testing | Level (mAOD) | Depth (m) (Thickness) | Legend | Strata Description | Water Strike | Backfill/ Installation |
| | | | | 44.20 | 0.25 | | Reinforced concrete slab.<br>CONCRETE | | |
| 0.40 | ES | | PID 0.40m, 1.1ppm | | (0.65) | | Brownish black clayey sandy angular fine to coarse GRAVEL of brick, concrete, ash, glass, metal and wood.<br>MADE GROUND | | |
| | | | | 43.55 | 0.90 | | | | |
| 1.10 | ES | | PID 1.10m, 0.8ppm | | (0.60) | | Reworked firm to stiff orangish brown mottled grey sandy gravelly CLAY. Gravel is subangular to subrounded fine to coarse mudstone.<br>MADE GROUND | | |
| | | | | 42.95 | 1.50 | | | | |
| | | | | | (1.10) | | Firm to stiff orangish brownish grey sandy slightly gravelly organic CLAY. Gravel is subangular to subrounded fine to coarse mudstone.<br>ALLUVIUM<br>*From 1.60 m - 1.70 mbgl: with pseudofibrous peat.*<br>*From 2.30 m - 2.40 mbgl: with pseudofibrous peat.* | | |
| | | | | 41.85 | 2.60 | | | | |
| | | | | | (0.70) | | Partial recovery. Firm to stiff orangish brown mottled grey sandy gravelly CLAY. Gravel is subangular to subrounded fine to coarse mudstone.<br>GLACIAL TILL | | |
| | | | | 41.15 | 3.30 | | | | |
| | | | | | (0.50) | | Destructured stiff thinly laminated orangish brown mottled grey sandy CLAY with thin laminae of coal. Abundant lithorelicts of mudstone.<br>PENNINE MIDDLE COAL MEASURES FORMATION | | |
| | | | | 40.65 | 3.80 | | End of Borehole at 3.80m | | |

1 2 3 4 5 6 7 8 9 10

**Start & End of Shift Observations**

| Date | Time | Depth (m) | Casing (m) | Water (m) |
|---|---|---|---|---|
| | | | | |

**Installation**

| Ref | Top (m) | Base (m) | Type | Diameter (mm) |
|---|---|---|---|---|
| 1 | 0.00 | 1.50 | PLAIN | 50 |
| 1 | 1.50 | 2.50 | SLOTTED | 50 |

Remarks:
No groundwater encountered.

**Windowless Sample Run Details**

| Test Number | Diameter (mm) | Depth Top (m) | Depth Base (m) | Recovery (%) |
|---|---|---|---|---|
| 1 | 85 | 1.20 | 2.00 | 100 |
| 2 | 85 | 2.00 | 3.00 | 100 |
| 3 | 75 | 3.00 | 3.80 | 63 |

**Casing**

| Depth (m) | Diameter (mm) |
|---|---|
| | |

**Water Strikes**

| Strike (m) | Casing (m) | Sealed (m) | Time (mins) | Rose to (m) | Remarks |
|---|---|---|---|---|---|
| | | | | | |

| | | | | |
|---|---|---|---|---|
| RPS | Contract Name: Project CHOP | | Client: SIMS Metals Management | Borehole ID: WS05 |
| | Contract Number: JER6108-CH | Start Date: 06/02/2018 | End Date: 06/02/2018 | Checked By: L.W | Status: DRAFT | Sheet 1 of 1 |
| Windowless Borehole Log | Easting: 437569.5 | Northing: 410406.8 | Ground Level: 46.80mOD | Plant Used: Dando Terrier | Logged By: O.G | Scale: 1:50 |
| Weather: Cold, light snow showers, slight breeze | | Termination: Target depth achieved. | | | | |

| Samples & In Situ Testing | | | | Strata Details | | | | Groundwater | |
|---|---|---|---|---|---|---|---|---|---|
| Depths | Type/ Ref | SPT | Testing | Level (mAOD) | Depth (m) (Thickness) | Legend | Strata Description | Water Strike | Backfill/ Installation |
| | | | | | (0.30) | | Reinforced concrete slab. CONCRETE | | |
| 0.30 | ES | | PID 0.30m, 0.0ppm | 46.50 | 0.30 | | Dark brownish grey sandy gravelly CLAY. Sand is fine to coarse. Gravel is angular fine to coarse brick, concrete, ash, slate, coal and metal. MADE GROUND | | |
| 1.00 | ES | | PID 1.00m, 0.0ppm | | (1.70) | | | | |
| 1.50 | ES | | PID 1.50m, 0.4ppm | | | | | | |
| | | | | 44.80 | 2.00 | | Orangish brown mottled grey sandy gravelly CLAY. Sand is fine to coarse. Gravel is angular to subangular fine to coarse mudstone. MADE GROUND | | |
| | | | | | (0.80) | | | | |
| | | | | 44.00 | 2.80 | | Very soft grey silty sandy CLAY. Sand is fine to coarse. ALLUVIUM | | |
| | | | | | (0.40) | | | | |
| | | | | 43.60 | 3.20 | | Firm to stiff orangish brown mottled grey sandy gravelly CLAY. Sand is fine to coarse. Gravel is angular fine to coarse mudstone. GLACIAL TILL | | |
| | | | | | (1.10) | | *From 3.50 m - 3.80 mbgl: becoming clayey gravelly sand.* *From 3.80 m - 3.84 mgbl: coal laminae* *From 4.00 m - 4.30 mbgl: becoming silty sandy gravel* | | |
| | | | | 42.50 | 4.30 | | Firm to stiff orangish brownish grey sandy gravelly CLAY. Sand is fine to coarse. Gravel is angular fine to coarse sandstone. GLACIAL TILL | | |
| | | | | | (0.70) | | | | |
| | | | | 41.80 | 5.00 | | End of Borehole at 5.00m | | |

| Start & End of Shift Observations | | | | |
|---|---|---|---|---|
| Date | Time | Depth (m) | Casing (m) | Water (m) |
| | | | | |

| Installation | | | | |
|---|---|---|---|---|
| Ref | Top (m) | Base (m) | Type | Diameter (mm) |
| 1 | 0.00 | 3.00 | PLAIN | 50 |
| 1 | 3.00 | 5.00 | SLOTTED | 50 |

Remarks:
No groundwater encountered.

| Windowless Sample Run Details | | | | |
|---|---|---|---|---|
| Test Number | Diameter (mm) | Depth Top (m) | Depth Base (m) | Recovery (%) |
| 1 | 85 | 1.20 | 2.20 | 100 |
| 2 | 85 | 2.20 | 3.00 | 100 |
| 3 | 75 | 3.00 | 4.00 | 100 |
| 4 | 75 | 4.00 | 5.00 | 100 |

| Casing | |
|---|---|
| Depth (m) | Diameter (mm) |
| | |

| Water Strikes | | | | | |
|---|---|---|---|---|---|
| Strike (m) | Casing (m) | Sealed (m) | Time (mins) | Rose to (m) | Remarks |
| | | | | | |

| | | | | |
|---|---|---|---|---|
| RPS | Contract Name: Project CHOP | | Client: SIMS Metals Management | Borehole ID: WS06 |
| | Contract Number: JER6108-CH | Start Date: 06/02/2018 | End Date: 06/02/2018 | Checked By: L.W | Status: DRAFT | Sheet 1 of 1 |
| Windowless Borehole Log | Easting: 437539.0 | Northing: 410489.7 | Ground Level: 46.86mOD | Plant Used: Dando Terrier | Logged By: O.G | Scale: 1:50 |
| Weather: Cold, light snow showers, slight breeze | | Termination: Target depth achieved. | | | | |

| Samples & In Situ Testing | | | | Strata Details | | | | Groundwater | |
|---|---|---|---|---|---|---|---|---|---|
| Depths | Type/ Ref | SPT | Testing | Level (mAOD) | Depth (m) (Thickness) | Legend | Strata Description | Water Strike | Backfill/ Installation |
| | | | | 46.60 | 0.26 | | Reinforced concrete slab. CONCRETE | | |
| 0.40 | ES | | PID 0.40m, 0.0ppm | | (0.74) | | Greyish brown clayey sandy angular fine to coarse GRAVEL of brick, concrete, ash, coal, plastic, metal, wood and clinker. MADE GROUND | | |
| 0.90 | ES | | PID 0.90m, 0.0ppm | 45.86 | 1.00 | | | | |
| | | | | | (0.50) | | Dark greyish black sandy gravelly CLAY. Sand is fine to coarse. Gravel is angular fine to coarse brick, concrete, ash and coal. MADE GROUND | | |
| 1.60 | ES | | PID 1.60m, 0.0ppm | 45.36 | 1.50 | | Firm to stiff orangish brown mottled grey sandy CLAY with frequent relic roots. Sand is fine to coarse. GLACIAL TILL | | |
| | | | | | (1.50) | | | | |
| | | | | 43.86 | 3.00 | | Destructured firm to stiff greyish brown sandy slightly gravelly CLAY with frequent relic roots. Gravel is subangular medium mudstone. PENNINE MIDDLE COAL MEASURES FORMATION | | |
| | | | | | (2.00) | | | | |
| | | | | 41.86 | 5.00 | | End of Borehole at 5.00m | | |

1 2 3 4 5 6 7 8 9 10

| Start & End of Shift Observations | | | | |
|---|---|---|---|---|
| Date | Time | Depth (m) | Casing (m) | Water (m) |

| Installation | | | | |
|---|---|---|---|---|
| Ref | Top (m) | Base (m) | Type | Diameter (mm) |
| 1 | 0.00 | 3.00 | PLAIN | 50 |
| 1 | 3.00 | 5.00 | SLOTTED | 50 |

Remarks:
No groundwater encountered.

| Windowless Sample Run Details | | | | |
|---|---|---|---|---|
| Test Number | Diameter (mm) | Depth Top (m) | Depth Base (m) | Recovery (%) |
| 1 | 85 | 1.20 | 2.00 | 100 |
| 2 | 85 | 2.00 | 3.00 | 100 |
| 3 | 75 | 3.00 | 4.00 | 100 |
| 4 | 75 | 4.00 | 5.00 | 100 |

| Casing | |
|---|---|
| Depth (m) | Diameter (mm) |

| Water Strikes | | | | | |
|---|---|---|---|---|---|
| Strike (m) | Casing (m) | Sealed (m) | Time (mins) | Rose to (m) | Remarks |

| | | | | | |
|---|---|---|---|---|---|
| RPS | Contract Name: Project CHOP | | Client: SIMS Metals Management | | Borehole ID: WS07 |
| | Contract Number: JER6108-CH | Start Date: 06/02/2018 | End Date: 06/02/2018 | Checked By: L.W | Status: DRAFT |
| | | | | | Sheet 1 of 1 |
| Windowless Borehole Log | Easting: 437543.4 | Northing: 410521.8 | Ground Level: 46.76mOD | Plant Used: Dando Terrier | Logged By: O.G |
| | | | | | Scale: 1:50 |

Weather: Cold, light snow showers, slight breeze

Termination: Target depth achieved.

| Samples & In Situ Testing | | | | Strata Details | | | | Groundwater | |
|---|---|---|---|---|---|---|---|---|---|
| Depths | Type/ Ref | SPT | Testing | Level (mAOD) | Depth (m) (Thickness) | Legend | Strata Description | Water Strike | Backfill/ Installation |
| | | | | 46.52 | 0.24 | | Reinforced concrete slab. CONCRETE | | |
| | | | | 46.36 | 0.40 | | Cream clayey sandy angular fine to coarse GRAVEL {Type-1} MADE GROUND | | |
| 0.50 | ES | | PID 0.50m, 3.0ppm | | (0.90) | | Brownish black clayey sandy angular fine to coarse GRAVEL of brick, concrete, ash, glass, metal, clinker, slate, coal and wood. MADE GROUND | | |
| 1.20 | ES | | PID 1.20m, 1.3ppm | 45.46 | 1.30 | | Firm to stiff orangish brown mottled grey silty sandy CLAY. Sand is fine to coarse. GLACIAL TILL | | |
| | | | | | (1.70) | | | | |
| | | | | 43.76 | 3.00 | | Destructured firm to stiff greyish brown sandy gravelly organic CLAY with frequent relic rootlets. Gravel is angular fine to coarse shelly mudstone and sandstone. PENNINE MIDDLE COAL MEASURES FORMATION | | |
| | | | | | (2.00) | | | | |
| | | | | 41.76 | 5.00 | | End of Borehole at 5.00m | | |

1 2 3 4 5 6 7 8 9 10

| Start & End of Shift Observations | | | | |
|---|---|---|---|---|
| Date | Time | Depth (m) | Casing (m) | Water (m) |
| | | | | |

| Installation | | | | |
|---|---|---|---|---|
| Ref | Top (m) | Base (m) | Type | Diameter (mm) |
| | | | | |

Remarks:

No groundwater encountered,

| Windowless Sample Run Details | | | | |
|---|---|---|---|---|
| Test Number | Diameter (mm) | Depth Top (m) | Depth Base (m) | Recovery (%) |
| 1 | 85 | 1.20 | 2.00 | 100 |
| 2 | 85 | 2.00 | 3.00 | 100 |
| 3 | 75 | 3.00 | 4.00 | 100 |
| 4 | 75 | 4.00 | 5.00 | 100 |

| Casing | |
|---|---|
| Depth (m) | Diameter (mm) |
| | |

| Water Strikes | | | | | |
|---|---|---|---|---|---|
| Strike (m) | Casing (m) | Sealed (m) | Time (mins) | Rose to (m) | Remarks |
| | | | | | |

| | | | | |
|---|---|---|---|---|
| RPS | Contract Name: Project CHOP | | Client: SIMS Metals Management | Borehole ID: WS08 |
| | Contract Number: JER6108-CH | Start Date: 06/02/2018 | End Date: 06/02/2018 | Checked By: L.W | Status: DRAFT | Sheet 1 of 1 |
| Windowless Borehole Log | Easting: 437549.9 | Northing: 410548.3 | Ground Level: 46.73mOD | Plant Used: Dando Terrier | Logged By: O.G | Scale: 1:50 |
| Weather: Cold, light snow showers, slight breeze | Termination: Terminated at 3.70 mbgl due to hard strata. | | | | | |

| Samples & In Situ Testing | | | | Strata Details | | | | Groundwater | |
|---|---|---|---|---|---|---|---|---|---|
| Depths | Type/ Ref | SPT | Testing | Level (mAOD) | Depth (m) (Thickness) | Legend | Strata Description | Water Strike | Backfill/ Installation |
| | | | | 46.48 | 0.25 | | Reinforced concrete slab.<br>CONCRETE | | |
| 0.50 | ES | | PID 0.50m, 21.1ppm | | (0.75) | | Blackish brown clayey sandy angular fine to coarse GRAVEL of brick, concrete, ash, wood, plastic, coal, fibreglass.<br>Possible clumps of asbestos fibres identified.<br>MADE GROUND | | |
| 1.10 | ES | | PID 1.00m, 3.8ppm | 45.73 | 1.00 | | | | |
| | | | | | (0.40) | | Orangish brown mottled grey sandy gravelly CLAY. Gravel is angular fine to coarse brick and concrete.<br>MADE GROUND | | |
| 1.50 | ES | | PID 1.50m, 5.0ppm | 45.33 | 1.40 | | Partial recovery. Firm to stiff orangish brown mottled grey silty sandy CLAY. Sand is fine to coarse.<br>GLACIAL TILL | | |
| | | | | | (1.80) | | | | |
| | | | | 43.53 | 3.20 | | Destructured firm to stiff orangish brown mottled grey sandy gravelly CLAY. Gravel is angular fine to coarse mudstone lithorelicts. | | |
| | | | | | (0.50) | | | | |
| | | | | 43.03 | 3.70 | | PENNINE MIDDLE COAL MEASURES FORMATION | | |
| | | | | | | | End of Borehole at 3.70m | | |

| Start & End of Shift Observations | | | | |
|---|---|---|---|---|
| Date | Time | Depth (m) | Casing (m) | Water (m) |
| | | | | |

| Installation | | | | |
|---|---|---|---|---|
| Ref | Top (m) | Base (m) | Type | Diameter (mm) |
| 1 | 0.00 | 2.70 | PLAIN | 50 |
| 1 | 2.70 | 3.70 | SLOTTED | 50 |

Remarks:
No groundwater encountered.

| Windowless Sample Run Details | | | | |
|---|---|---|---|---|
| Test Number | Diameter (mm) | Depth Top (m) | Depth Base (m) | Recovery (%) |
| 1 | 85 | 1.20 | 2.00 | 100 |
| 2 | 85 | 2.00 | 3.00 | 100 |
| 3 | 75 | 3.00 | 3.70 | 70 |

| Casing | |
|---|---|
| Depth (m) | Diameter (mm) |
| | |

| Water Strikes | | | | | |
|---|---|---|---|---|---|
| Strike (m) | Casing (m) | Sealed (m) | Time (mins) | Rose to (m) | Remarks |
| | | | | | |

| | | | | |
|---|---|---|---|---|
| RPS | Contract Name: Project CHOP | | Client: SIMS Metals Management | Borehole ID: WS09 |
| | Contract Number: JER6108-CH | Start Date: 07/02/2018 | End Date: 07/02/2018 | Checked By: L.W | Status: DRAFT | Sheet 1 of 1 |
| Windowless Borehole Log | Easting: 437594.7 | Northing: 410577.6 | Ground Level: 45.56mOD | Plant Used: Dando Terrier | Logged By: O.G | Scale: 1:50 |
| Weather: Clear, dry, no breeze | Termination: Terminated at 0.50 mbgl due to live power cable encountered. | | | | | |

| Samples & In Situ Testing | | | | Strata Details | | | | Groundwater | |
|---|---|---|---|---|---|---|---|---|---|
| Depths | Type/ Ref | SPT | Testing | Level (mAOD) | Depth (m) (Thickness) | Legend | Strata Description | Water Strike | Backfill/ Installation |
| 0.40 | ES | | PID 0.40m, 1.2ppm | 45.31 | 0.25 | | Reinforced concrete slab. CONCRETE | | |
| | | | | 45.06 | 0.50 | | Brownish blackish dark grey clayey sandy angular fine to coarse GRAVEL of brick, concrete, ash, metal and plastic. MADE GROUND | | |
| | | | | | | | End of Borehole at 0.50m | | |

1 2 3 4 5 6 7 8 9 10

**Start & End of Shift Observations**

| Date | Time | Depth (m) | Casing (m) | Water (m) |
|---|---|---|---|---|
| | | | | |

**Installation**

| Ref | Top (m) | Base (m) | Type | Diameter (mm) |
|---|---|---|---|---|
| | | | | |

Remarks:
Perched groundwater encountered at 0.30 mbgl.

**Windowless Sample Run Details**

| Test Number | Diameter (mm) | Depth Top (m) | Depth Base (m) | Recovery (%) |
|---|---|---|---|---|
| | | | | |

**Casing**

| Depth (m) | Diameter (mm) |
|---|---|
| | |

**Water Strikes**

| Strike (m) | Casing (m) | Sealed (m) | Time (mins) | Rose to (m) | Remarks |
|---|---|---|---|---|---|
| | | | | | |

| | | | | |
|---|---|---|---|---|
| RPS | Contract Name: Project CHOP | | Client: SIMS Metals Management | Borehole ID: WS10 |
| | Contract Number: JER6108-CH | Start Date: 07/02/2018 | End Date: 07/02/2018 | Checked By: L.W | Status: DRAFT | Sheet 1 of 1 |
| Windowless Borehole Log | Easting: 437622.9 | Northing: 410557.2 | Ground Level: 44.44mOD | Plant Used: Dando Terrier | Logged By: O.G | Scale: 1:50 |
| Weather: Clear, dry, no breeze. | | Termination: Target depth achieved. | | | | |

| Samples & In Situ Testing | | | | Strata Details | | | | Groundwater | |
|---|---|---|---|---|---|---|---|---|---|
| Depths | Type/ Ref | SPT | Testing | Level (mAOD) | Depth (m) (Thickness) | Legend | Strata Description | Water Strike | Backfill/ Installation |
| | | | | 44.23 | 0.21 | | Reinforced concrete slab.<br>CONCRETE | | |
| 0.40 | ES | | PID 0.40m, 0.7ppm | | | | Brownish black clayey sandy angular fine to coarse GRAVEL of brick, concrete, ash, wood and metal.<br>MADE GROUND | | |
| 1.00 | ES | | PID 1.00m, 0.4ppm | | (1.39) | | | | |
| | | | | 42.84 | 1.60 | | Yellowish brown clayey gravelly fine to coarse SAND. Sand is fine to coarse. Gravel is angular fine to coarse brick and concrete.<br>MADE GROUND | | |
| | | | | 42.64 | 1.80 | | Partial recovery. Soft dark grey sandy gravelly CLAY. Sand is fine to coarse. Gravel is angular to subrounded fine to coarse mudstone.<br>ALLUVIUM | | |
| | | | | | | | *From 2.80 m - 3.60 mbgl: becoming sandy clay.* | | |
| | | | | | (3.20) | | | | |
| | | | | | | | *From 3.60 m - 5.00 mbgl: becoming silty peaty clay. Peat is pseudofibrous.* | | |
| | | | | 39.44 | 5.00 | | End of Borehole at 5.00m | | |

1 2 3 4 5 6 7 8 9 10

| Start & End of Shift Observations | | | | |
|---|---|---|---|---|
| Date | Time | Depth (m) | Casing (m) | Water (m) |

| Installation | | | | |
|---|---|---|---|---|
| Ref | Top (m) | Base (m) | Type | Diameter (mm) |
| 1 | 0.00 | 1.00 | PLAIN | 50 |
| 1 | 1.00 | 2.00 | SLOTTED | 50 |

Remarks:

Perched groundwater encountered at 0.30 mbgl. Exploratory hole collapsed back to 2.00 mbgl.

| Windowless Sample Run Details | | | | |
|---|---|---|---|---|
| Test Number | Diameter (mm) | Depth Top (m) | Depth Base (m) | Recovery (%) |
| 1 | 85 | 1.20 | 2.00 | 100 |
| 2 | 85 | 2.00 | 3.00 | 20 |
| 3 | 75 | 3.00 | 4.00 | 40 |
| 4 | 65 | 4.00 | 5.00 | 100 |

| Casing | |
|---|---|
| Depth (m) | Diameter (mm) |

| Water Strikes | | | | | |
|---|---|---|---|---|---|
| Strike (m) | Casing (m) | Sealed (m) | Time (mins) | Rose to (m) | Remarks |

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2. If received electronically it is the recipients responsibility to print to correct scale. Only written dimensions should be used.

## Legend

Site Boundary

**Site Constraints**

Fixed Constraint

Transient Constraint

Trafficked Route

**Exploratory Hole Locations**

Window Sample Borehole with Monitoring Well Installation

Window Sample Borehole

| Rev | Description | Date | Initial | Checked |
|---|---|---|---|---|
| | | | | |
| | | | | |

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Client SIMS GROUP UK LTD.

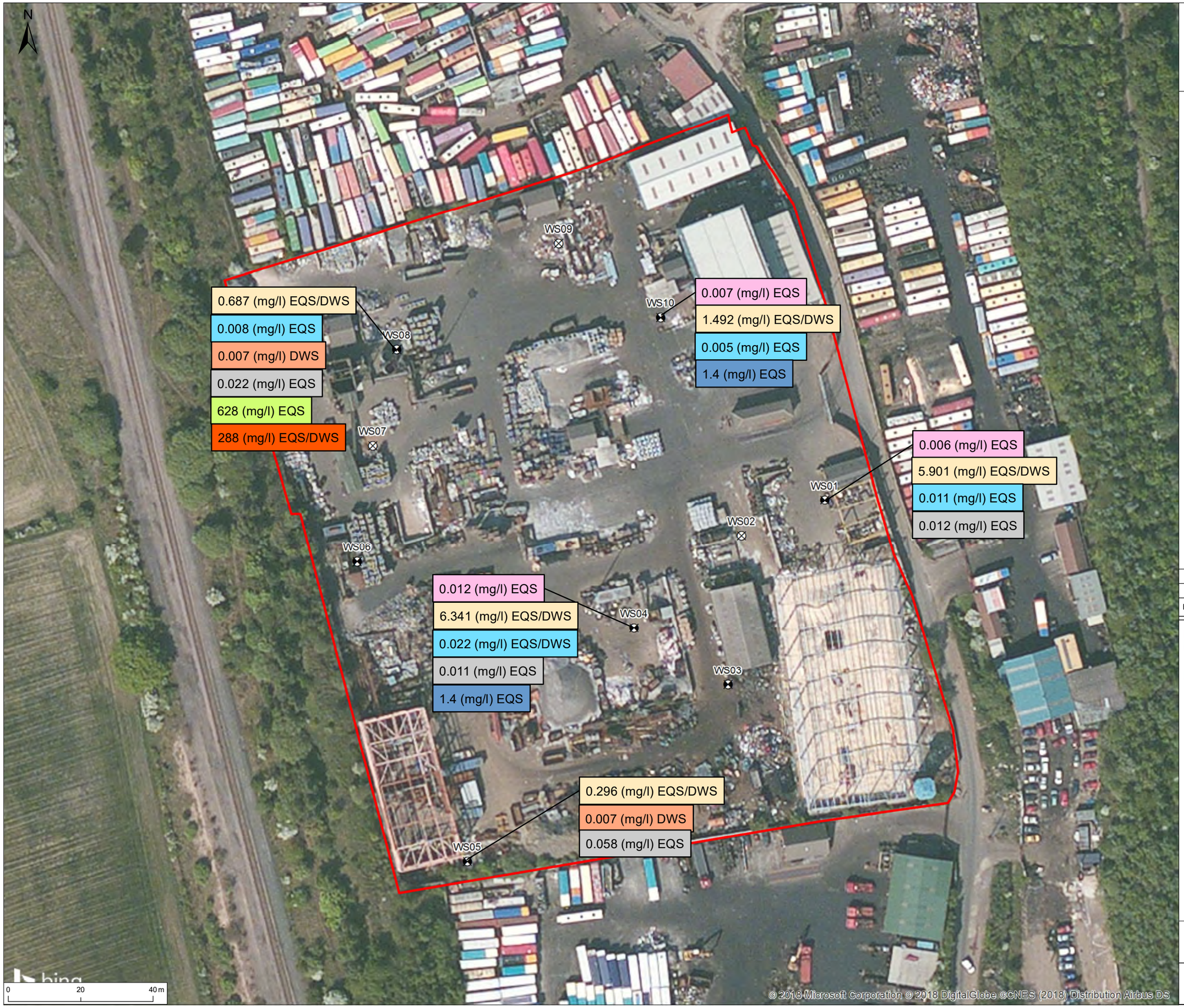
Project PROJECT CHOP

Title EXPLORATORY HOLE LOCATION PLAN AND SITE CONSTRAINTS

| Status | Drawn By | PM/Checked By |
|---|---|---|
| PRELIMINARY | RJ | OG |
| **Job Ref** | **Scale @ A3** | **Date Created** |
| JER6108 | 1:1,000 | FEB 18 |

Drawing Number **JER6108-CH-002** Rev **-**

rpsgroup.com

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## Legend

Site Boundary

**Exploratory Hole Locations**

Window Sample Borehole with Monitoring Well Installation

Window Sample Borehole

**Exceedances of Screening Criteria**

- Cobalt - EQS (0.003 mg/l)
- Manganese - EQS/DWS (0.123/0.05 mg/l)
- Nickel - EQS/DWS (0.004/0.02 mg/l)
- Antimony - DWS (0.005 mg/l)
- Zinc - EQS (0.0109 mg/l)
- Sulphur as SO4- EQS (400 mg/l)
- Chloride - EQS/DWS (250 mg/l)
- Ammoniacal Nitrogen - EQS (0.75 mgl)

EQS = Environmental Quality Standard
DWS = UK Drinking Water Standard

| Rev | Description | Date | Initial | Checked |
|---|---|---|---|---|
| | | | | |
| | | | | |

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Client SIMS GROUP UK LTD.

Project PROJECT CHOP

Title EXCEEDAMCES OF INORGANIC DETERMINANDS IN GROUNDWATER ABOVE SCREENING CRITERIA

| Status | Drawn By | PM/Checked By |
|---|---|---|
| PRELIMINARY | AM | OG |
| **Job Ref** | **Scale @ A3** | **Date Created** |
| JER6108 | 1:1,000 | FEB 18 |

Drawing Number **JER6108-CH-003** Rev **-**

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2. If received electronically it is the recipients responsibility to print to correct scale. Only written dimensions should be used.

## Legend

Site Boundary

**Exploratory Hole Locations**

Window Sample Borehole with Monitoring Well Installation

Window Sample Borehole

**Exceedances of Screening Criteria - PAH**

Benzo(a)pyrene - EQS/DWS (0.00017/0.01 ug/l)

PAH(4) - DWS (0.1 ug/l)

Anthracene - EQS (0.01 ug/l)

Naphthalene - EQS (2 ug/l)

**Exceedances of Non-Statutory Screening Criteria (0.05 mg/l) - TPH**

Aromatic >C8-C40

Aromatic >C12-C16

Aromatic >C16-C21

Aromatic >C21-C35

Aliphatic >C8-C40

Aliphatic >C21-C35

PAH(4) - sum of benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(ghi)perylene, indeno(123-cd)perylene

EQS = Environmental Quality Standard
DWS = Drinking Water Standard

| Rev | Description | Date | Initial | Checked |
|---|---|---|---|---|
| | | | | |
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Client SIMS GROUP UK LTD.

Project PROJECT CHOP

Title EXCEEDAMCES OF PAH ANDTPH DETERMINANDS IN GROUNDWATER ABOVE SCREENING CRITERIA

| Status | Drawn By | PM/Checked By |
|---|---|---|
| PRELIMINARY | AM | OG |
| **Job Ref** | **Scale @ A3** | **Date Created** |
| JER6108 | 1:1,000 | FEB 18 |

Drawing Number **JER6108-CH-004** Rev **-**

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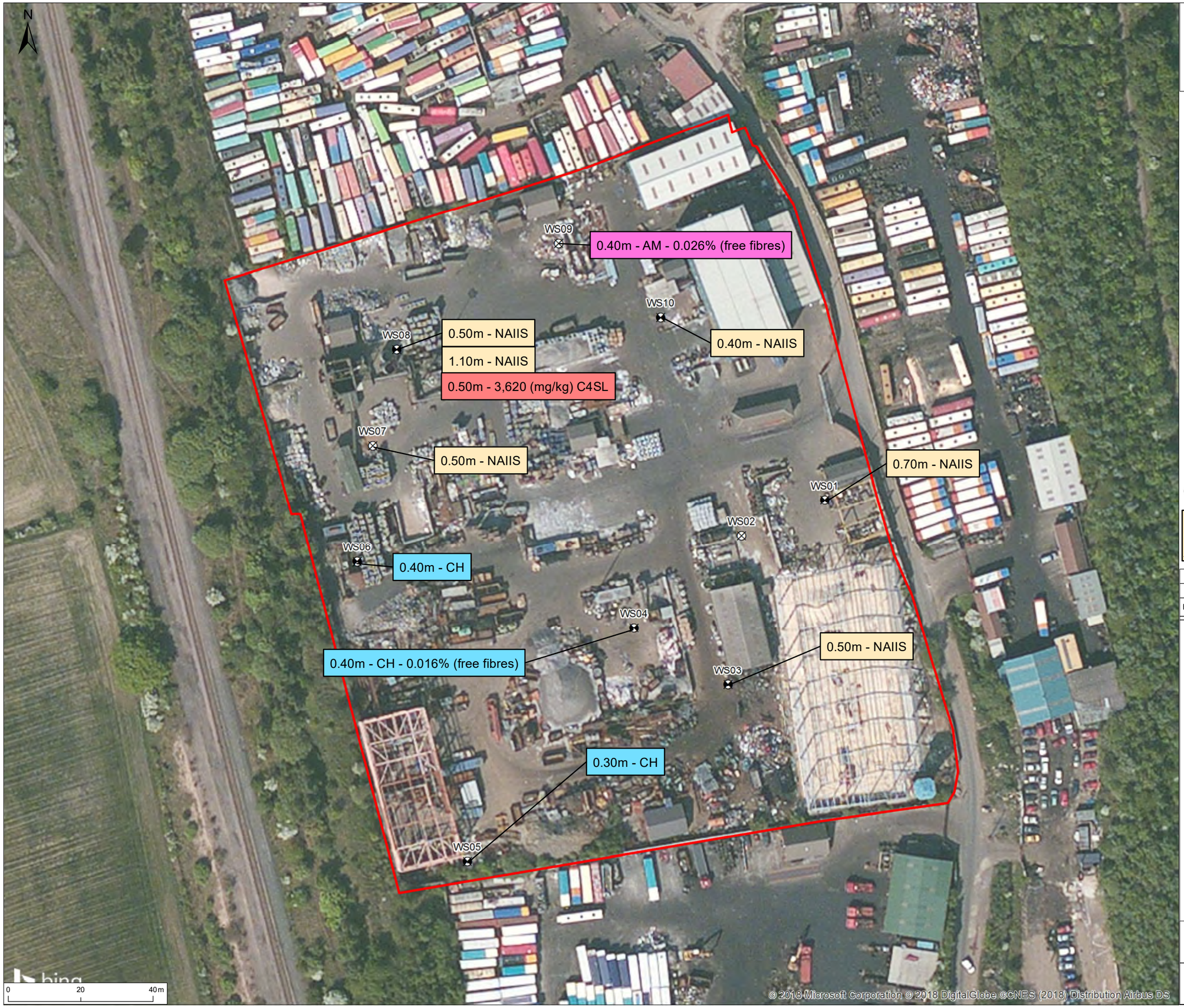


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2. If received electronically it is the recipients responsibility to print to correct scale. Only written dimensions should be used.

## Legend

Site Boundary

**Exploratory Hole Locations**

Window Sample Borehole with Monitoring Well Installation

Window Sample Borehole

**Exceedances of Screening Criteria**

Lead - C4SL (2,300 mg/kg)

C4SL = Category 4 Screening Levels

NAIIS = No Asbestos Identified in Sample
CH = Chrysotile
AM = Amosite

| Rev | Description | Date | Initial | Checked |
|---|---|---|---|---|
| | | | | |
| | | | | |

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Client SIMS GROUP UK LTD.

Project PROJECT CHOP

Title ASBESTOS IDENTIFIED IN SOIL AND EXCEEDANCES OF CHEMICAL DETERMINANDS IN SOIL ABOVE SCREENING CRITERIA FOR COMMERCIAL END USE

| Status | Drawn By | PM/Checked By |
|---|---|---|
| PRELIMINARY | AM | OG |
| **Job Ref** | **Scale @ A3** | **Date Created** |
| JER6108 | 1:1,000 | MAY 18 |

Drawing Number **JER6108-CH-005** Rev **-**

rpsgroup.com

Our Ref: EFS/183017M (Ver. 2)
Your Ref: JER6108-CH

June 13, 2018

Environmental Chemistry
SOCOTEC UK Limited
Bretby Business Park
Ashby Road
Burton-on-Trent
Staffordshire
DE15 0YZ

Telephone: 01283 554400
Facsimile: 01283 554422

Adam Parker
RPS
2420 The Quadrant
Aztec West
Almondsbury
Bristol
BS32 4AQ

For the attention of Adam Parker

Dear Adam Parker

**Sample Analysis - Project Chop**

Samples from the above site have been analysed in accordance with the schedule supplied.
The sample details and the results of analyses for these samples are given in the appended report.

An invoice for this work will follow under a separate cover.

Where appropriate the samples will be kept until 23/03/18 when they will be discarded. Please call 01283 554400 for an extension of this date.
Please be aware that our policy for the retention of paper based laboratory records and analysis reports is 6 years.

The work was carried out in accordance with SOCOTEC UK Limited (Laboratory and Analytical) Standard Terms and Conditions of Contract.

If I can be of any further assistance please do not hesitate to contact me.

Yours sincerely

for SOCOTEC UK Limited

L Moore
Project Co-ordinator
01283 554400


Environmental Chemistry, SOCOTEC UK Limited, P.O. Box 100, Burton-upon-trent, DE15 0XD Tel: 01283 554400 Fax: 01283 554422
SOCOTEC UK Limited.
Registered No: 2880501

# TEST REPORT

1252

## Report No. EFS/183017M (Ver. 2)

RPS
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2420 The Quadrant
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Almondsbury
Bristol
BS32 4AQ

**Site: Project Chop**

The 18 samples described in this report were registered for analysis by SOCOTEC UK Limited on 09-Feb-2018. This report supersedes any versions previously issued by the laboratory.
The analysis was completed by: 13-Jun-2018

Tests where the accreditation is set to N or No, and any individual data items marked with a * are not UKAS or MCERTS accredited. Any opinions or interpretations expressed herein are outside the scope of any UKAS accreditation held by SOCOTEC UK Limited.

The following tables are contained in this report:


Table 1 Main Analysis Results (Pages 2 to 14)
Table of SVOC (Tics) Results (Pages 15 to 21)
Table of TPH (Si) banding (std) (Pages 22 to 23)
Table of WAC Analysis Results (Pages 24 to 25)
Table of Asbestos Screening Results (Pages 26 to 27)
Analytical and Deviating Sample Overview (Pages 28 to 33)
Table of Additional Report Notes (Page 34)
Table of Method Descriptions (Pages 35 to 36)
Table of Report Notes (Page 37)
Table of Sample Descriptions (Appendix A Page 1 of 1)


On behalf of
SOCOTEC UK Lim
Tim Barnes
Operations Director
Energy & Waste Services

Date of Issue: 13-Jun-2018

Accreditation Codes: **N** (Not Accredited), **U** (UKAS), **UM** (UKAS & MCERTS)
Tests marked '^' have been subcontracted to another laboratory.
(NVM) - denotes the sample matrix is dissimilar to matrices upon which the MCERTS validation was based, and is therefore not accredited for MCERTS.
All results are reported on a dry weight basis at 105$^{o}$C unless otherwise stated. (except QC samples)
SOCOTEC UK Limited accepts no responsibility for any sampling not carried out by our personnel.

| | | | Units : | Mol/kg | µg/kg | µg/kg | µg/kg | µg/kg | µg/kg | µg/kg | µg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Method Codes : | ANC | BTEXHSA | BTEXHSA | BTEXHSA | BTEXHSA | BTEXHSA | BTEXHSA | BTEXHSA | ICPBOR | ICPMSS | ICPMSS | ICPMSS | ICPMSS | ICPMSS | ICPMSS | ICPMSS |
| | | | Method Reporting Limits : | 0.04 | 10 | 10 | 20 | 20 | 10 | 10 | 30 | 0.5 | 0.1 | 0.3 | 0.2 | 1.2 | 0.1 | 1.6 | 0.7 |
| | | | Accreditation Code: | N | UM | UM | UM | U | UM | UM | UM | UM | U | UM | UM | UM | UM | UM | UM |
| LAB ID Number CL/ | Client Sample Description | Sample Date | | Acid Neut. Capacity | Benzene | Ethyl Benzene | m/p Xylenes | MTBE | o Xylene | Toluene | Xylenes | Boron (H20 Soluble) | Antimony (MS) | Arsenic (MS) | Cadmium (MS) | Chromium (MS) | Cobalt (MS) | Copper (MS) | Lead (MS) |
| 1893498 | WS01 0.70 | 07-Feb-18 | | | | | | | | | | 1.9 | | 6.3 | 0.52 | 19.0 | | 45.7 | 33.8 |
| 1893499 | WS01 1.60 | 07-Feb-18 | | | | | | | | | | 5.9 | | 15.5 | 0.39 | 25 | | 43 | 35.4 |
| 1893500 | WS03 0.50 | 07-Feb-18 | | 0.32 | <12 | <12 | <24 | <24 | <12 | <12 | <35 | 2.4 | 4.8 | 14.9 | 0.90 | 11.6 | 5.9 | 72.2 | 64 |
| 1893501 | WS03 0.90 | 07-Feb-18 | | | | | | | | | | 2.7 | | 20.0 | 0.30 | 13.0 | | 48.8 | 72.4 |
| 1893502 | WS03 1.50 | 07-Feb-18 | | | | | | | | | | 3.3 | | 28.8 | 0.66 | 18.0 | | 66.3 | 318.2 |
| 1893503 | WS04 0.40 | 07-Feb-18 | | | | | | | | | | 2.3 | 53.2 | 11.3 | 8.26 | 52.1 | 25 | 3740 | 1190 |
| 1893504 | WS04 1.10 | 07-Feb-18 | | | | | | | | | | 2 | | 8.8 | <0.21 | 15.7 | | 42.2 | 42.2 |
| 1893505 | WS05 0.30 | 06-Feb-18 | | | | | | | | | | 6.1 | | 17.7 | 5.44 | 38.0 | | 2090 | 698.0 |
| 1893506 | WS05 1.00 | 06-Feb-18 | | | | | | | | | | 3.3 | | 19.1 | 0.51 | 21.8 | | 264.3 | 130.3 |
| 1893507 | WS05 1.50 | 06-Feb-18 | | | | | | | | | | 0.6 | | 10.5 | 0.39 | 15.7 | | 22.4 | 27.4 |
| 1893508 | WS06 0.40 | 06-Feb-18 | | | | | | | | | | 3.6 | 9.3 | 25.7 | 0.40 | 17.6 | 16 | 209.7 | 206.1 |
| 1893509 | WS06 0.90 | 06-Feb-18 | | | | | | | | | | 1.8 | | 13.1 | 0.83 | 232.0 | | 97 | 156.8 |
| 1893510 | WS07 0.50 | 06-Feb-18 | | | | | | | | | | 2.3 | 3.0 | 14.3 | 0.25 | 16.8 | 13.9 | 76.8 | 51.1 |
| 1893511 | WS07 1.20 | 06-Feb-18 | | | | | | | | | | 1.9 | | 5.0 | 0.48 | 20.6 | | 29.5 | 18.9 |
| 1893512 | WS08 0.50 | 06-Feb-18 | | 0.73 | <13 | <13 | <26 | <26 | <13 | <13 | <40 | 11.8 | | 23.4 | 16.82 | 58.5 | | 5220 | 3620 |
| 1893513 | WS08 1.10 | 06-Feb-18 | | | | | | | | | | 4.2 | | 23.5 | 1.22 | 25.9 | | 626 | 242 |
| 1893514 | WS08 1.50 | 06-Feb-18 | | | | | | | | | | 3.8 | | 10 | 0.22 | 15.0 | | 23.9 | 30.0 |
| 1893515 | WS09 0.40 | 07-Feb-18 | | | | | | | | | | 7.0 | 58.1 | 17.9 | 6.15 | 42.7 | 12.1 | 4340 | 898.2 |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |


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**Client Name** RPS

**Contact** Adam Parker

# Project Chop

## Sample Analysis

| | |
|---|---|
| **Date Printed** | **13-Jun-2018** |
| **Report Number** | **EFS/183017M** |
| **Table Number** | **1** |



Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105°C where appropriate, in accordance with the MCERTS standard.

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Units :** | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | % | % | mg/kg | mg/kg | mg/kg | mg/kg |
| **Method Codes :** | | | ICPMSS | ICPMSS | ICPMSS | ICPMSS | ICPMSS | ICPMSS | ICPMSS | ICPMSS | ICPMSS | ICPMSS | LOI(%MM) | ORGMAT | PAHMSUS | PAHMSUS | PAHMSUS | PAHMSUS |
| **Method Reporting Limits :** | | | 6 | 0.5 | 0.5 | 2 | 0.5 | 0.1 | 0.5 | 0.1 | 0.6 | 16 | 0.2 | 0.1 | 0.08 | 0.08 | 0.08 | 0.08 |
| **Accreditation Code:** | | | UM | UM | UM | UM | UM | U | U | U | N | UM | N | N | UM | U | U | UM |
| **LAB ID Number CL/** | **Client Sample Description** | **Sample Date** | **Manganese (MS)** | **Mercury (MS)** | **Molybdenum (MS)** | **Nickel (MS)** | **Selenium (MS)** | **Thallium (MS)** | **Tin (MS)** | **Uranium (MS)** | **Vanadium (MS)** | **Zinc (MS)** | **L.O.I. % @ 450C** | **Organic Matter %** | **Acenaphthene** | **Acenaphthylene** | **Anthracene** | **Benzo(a)anthracene** |
| 1893498 | WS01 0.70 | 07-Feb-18 | | <0.5 | | 19 | 0.5 | | | | | 89.2 | | | | | | |
| 1893499 | WS01 1.60 | 07-Feb-18 | | <0.6 | | 37.3 | 0.7 | | | | | 106.7 | | 4.4 | | | | |
| 1893500 | WS03 0.50 | 07-Feb-18 | 283.3 | <0.51 | 3.1 | 12.9 | <0.5 | <0.1 | 6.6 | 0.9 | 14 | 134.3 | 4.6 | 3.8 | <0.09 | <0.09 | <0.09 | 0.11 |
| 1893501 | WS03 0.90 | 07-Feb-18 | | <0.52 | | 21.7 | 0.7 | | | | | 101.8 | | | <0.10 | <0.10 | 0.15 | 0.47 |
| 1893502 | WS03 1.50 | 07-Feb-18 | | <0.6 | | 26.5 | 0.9 | | | | | 267.9 | | | <0.11 | 0.40 | 1.15 | 2.44 |
| 1893503 | WS04 0.40 | 07-Feb-18 | 408.7 | <0.52 | 5.6 | 49.3 | 0.7 | <0.1 | 33.6 | 1 | 14.2 | 2060 | | | <0.09 | <0.09 | 0.09 | 0.25 |
| 1893504 | WS04 1.10 | 07-Feb-18 | | <0.5 | | 26.1 | <0.5 | | | | | 93.9 | | | | | | |
| 1893505 | WS05 0.30 | 06-Feb-18 | | <0.54 | | 53.2 | 0.9 | | | | | 1170 | | | 0.12 | <0.10 | 0.41 | 0.80 |
| 1893506 | WS05 1.00 | 06-Feb-18 | | <0.50 | | 37.5 | 0.7 | | | | | 164 | | | | | | |
| 1893507 | WS05 1.50 | 06-Feb-18 | | <0.5 | | 31.1 | <0.5 | | | | | 66.9 | | | | | | |
| 1893508 | WS06 0.40 | 06-Feb-18 | 790 | 1.2 | 5.1 | 41.3 | 0.9 | 0.2 | 33.4 | 1.6 | 32.4 | 141.6 | | 10.0 | 0.20 | 0.24 | 0.81 | 2.34 |
| 1893509 | WS06 0.90 | 06-Feb-18 | | <0.51 | | 24.1 | <0.5 | | | | | 153.1 | | | | | | |
| 1893510 | WS07 0.50 | 06-Feb-18 | 489.2 | <0.51 | 2.9 | 33.8 | <0.5 | <0.1 | 9.3 | 1 | 22 | 87.8 | | | <0.09 | <0.09 | 0.34 | 0.57 |
| 1893511 | WS07 1.20 | 06-Feb-18 | | <0.5 | | 64.9 | 0.7 | | | | | 90.6 | | | | | | |
| 1893512 | WS08 0.50 | 06-Feb-18 | | <0.57 | | 74.7 | 1.7 | | | | | 2930 | 13.9 | | 0.28 | 0.17 | 0.69 | 1.65 |
| 1893513 | WS08 1.10 | 06-Feb-18 | | <0.50 | | 41 | 0.7 | | | | | 260.6 | | | | | | |
| 1893514 | WS08 1.50 | 06-Feb-18 | | <0.5 | | 17.2 | <0.5 | | | | | 56.7 | | 2.3 | <0.10 | <0.10 | <0.10 | <0.10 |
| 1893515 | WS09 0.40 | 07-Feb-18 | 615.5 | 1.68 | 6.5 | 38.2 | 0.8 | <0.1 | 22.9 | 1.4 | 19.5 | 1095.9 | | | 0.13 | <0.10 | 0.50 | 0.79 |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |


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**Client Name** RPS

**Contact** Adam Parker

# Project Chop

## Sample Analysis

| | |
|---|---|
| **Date Printed** | **13-Jun-2018** |
| **Report Number** | **EFS/183017M** |
| **Table Number** | **1** |



Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105°C where appropriate, in accordance with the MCERTS standard.

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Units :** | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | µg/kg | µg/kg |
| **Method Codes :** | | | PAHMSUS | PAHMSUS | PAHMSUS | PAHMSUS | PAHMSUS | PAHMSUS | PAHMSUS | PAHMSUS | PAHMSUS | PAHMSUS | PAHMSUS | PAHMSUS | PAHMSUS | PAHMSUS | PCBECD | PCBECD |
| **Method Reporting Limits :** | | | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 1.28 | 5 | 5 |
| **Accreditation Code:** | | | UM | UM | UM | UM | UM | N | UM | UM | UM | UM | UM | UM | UM | U | UM | UM |
| **LAB ID Number CL/** | **Client Sample Description** | **Sample Date** | **Benzo(a)pyrene** | **Benzo(b)fluoranthene** | **Benzo(ghi)perylene** | **Benzo(k)fluoranthene** | **Chrysene** | **Coronene** | **Dibenzo(ah)anthracene** | **Fluoranthene** | **Fluorene** | **Indeno(123-cd)pyrene** | **Naphthalene** | **Phenanthrene** | **Pyrene** | **Total PAH (Sum of USEPA 16)** | **PCB 101** | **PCB 118** |
| 1893498 | WS01 0.70 | 07-Feb-18 | | | | | | | | | | | | | | | | |
| 1893499 | WS01 1.60 | 07-Feb-18 | | | | | | | | | | | | | | | | |
| 1893500 | WS03 0.50 | 07-Feb-18 | <0.09 | 0.12 | <0.09 | <0.09 | <0.09 | <0.09 | <0.09 | 0.15 | <0.09 | <0.09 | <0.09 | <0.09 | 0.18 | <1.67 | <5.88 | 8.31 |
| 1893501 | WS03 0.90 | 07-Feb-18 | 0.41 | 0.52 | 0.18 | 0.19 | 0.46 | | <0.10 | 0.73 | <0.10 | 0.22 | <0.10 | 0.40 | 0.59 | <4.82 | | |
| 1893502 | WS03 1.50 | 07-Feb-18 | 1.82 | 2.13 | 0.63 | 0.90 | 2.12 | | 0.20 | 4.70 | 0.47 | 0.83 | <0.11 | 3.19 | 3.72 | <24.9 | <7.16 | <7.16 |
| 1893503 | WS04 0.40 | 07-Feb-18 | 0.32 | 0.39 | 0.24 | 0.13 | 0.19 | | <0.09 | 0.47 | <0.09 | 0.26 | 0.09 | 0.25 | 0.59 | <3.7 | 14.9 | 12.1 |
| 1893504 | WS04 1.10 | 07-Feb-18 | | | | | | | | | | | | | | | | |
| 1893505 | WS05 0.30 | 06-Feb-18 | 0.73 | 0.90 | 0.41 | 0.32 | 0.80 | | 0.11 | 1.63 | 0.12 | 0.47 | 0.52 | 1.37 | 1.45 | <10.30 | | |
| 1893506 | WS05 1.00 | 06-Feb-18 | | | | | | | | | | | | | | | | |
| 1893507 | WS05 1.50 | 06-Feb-18 | | | | | | | | | | | | | | | | |
| 1893508 | WS06 0.40 | 06-Feb-18 | 2.09 | 2.34 | 0.99 | 0.95 | 2.09 | | 0.26 | 4.18 | 0.21 | 1.15 | 0.44 | 2.13 | 3.77 | 24.2 | <6.26 | <6.26 |
| 1893509 | WS06 0.90 | 06-Feb-18 | | | | | | | | | | | | | | | | |
| 1893510 | WS07 0.50 | 06-Feb-18 | 0.44 | 0.63 | 0.23 | 0.22 | 0.63 | | <0.09 | 1.10 | <0.09 | 0.23 | 0.61 | 0.98 | 0.97 | <7.36 | | |
| 1893511 | WS07 1.20 | 06-Feb-18 | | | | | | | | | | | | | | | | |
| 1893512 | WS08 0.50 | 06-Feb-18 | 1.39 | 1.85 | 0.66 | 0.62 | 1.66 | 0.16 | 0.18 | 3.22 | 0.50 | 0.73 | 0.91 | 2.11 | 3.26 | 19.9 | <6.61 | 9.70 |
| 1893513 | WS08 1.10 | 06-Feb-18 | | | | | | | | | | | | | | | | |
| 1893514 | WS08 1.50 | 06-Feb-18 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <1.59 | <6.20 | <6.20 |
| 1893515 | WS09 0.40 | 07-Feb-18 | 0.86 | 1.13 | 0.46 | 0.41 | 0.69 | | <0.10 | 1.47 | 0.20 | 0.50 | 0.45 | 0.79 | 1.91 | <10.5 | 24.0 | 14.9 |
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| | |
|---|---|
| **Client Name** | **RPS** |
| **Contact** | Adam Parker |

# Project Chop

## Sample Analysis

| | |
|---|---|
| **Date Printed** | **13-Jun-2018** |
| **Report Number** | **EFS/183017M** |
| **Table Number** | **1** |



Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105°C where appropriate, in accordance with the MCERTS standard.

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Units :** | | | µg/kg | µg/kg | µg/kg | µg/kg | µg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | pH Units | mg/kg | mg/kg | % | % | mg/kg |
| **Method Codes :** | | | PCBECD | PCBECD | PCBECD | PCBECD | PCBECD | PHEHPLCUV | PHEHPLCUV | PHEHPLCUV | PHEHPLCUV | PHEHPLCUV | PHSOIL | SFAPI | SFAPI | Sub002 | Sub002 | SVOCSW |
| **Method Reporting Limits :** | | | 5 | 5 | 5 | 5 | 5 | 0.1 | 0.1 | 0.1 | 0.4 | 0.1 | | 0.5 | 2 | 0.001 | | 0.1 |
| **Accreditation Code:** | | | UM | UM | UM | UM | UM | UM | UM | UM | UM | UM | UM | UM | UM | U | U | N |
| **LAB ID Number CL/** | **Client Sample Description** | **Sample Date** | **PCB 138** | **PCB 153** | **PCB 180** | **PCB 28** | **PCB 52** | **Dimethylphenols** | **Methyl Phenols** | **Phenol** | **Total Phenols** | **Trimethylphenols** | **pH units (AR)** | **Cyanide(Total) (AR)** | **Thiocyanate(SCN)(AR)** | **^Asbestos ID and Quant (1 to 3)** | **^Asbestos Screen & ID (Stage 1)** | **1,2,4-Trichlorobenzene** |
| 1893498 | WS01 0.70 | 07-Feb-18 | | | | | | | | | | | | | | | NAIIS | |
| 1893499 | WS01 1.60 | 07-Feb-18 | | | | | | | | | | | | | | | | |
| 1893500 | WS03 0.50 | 07-Feb-18 | 9.82 | 12.1 | <5.88 | 12.8 | 15.2 | <0.1 | <0.1* | <0.1 | <0.5 | <0.1 | 7.3 | <0.6 | <2 | | NAIIS | <0.118 |
| 1893501 | WS03 0.90 | 07-Feb-18 | | | | | | | | | | | | | | | | |
| 1893502 | WS03 1.50 | 07-Feb-18 | <7.16 | <7.16 | <7.16 | <7.16 | <7.16 | | | | | | | | | | | <0.143 |
| 1893503 | WS04 0.40 | 07-Feb-18 | 31.4 | 38.4 | 11.51 | <5.93 | <5.93 | | | | | | | | | 0.016 | CH | <0.119 |
| 1893504 | WS04 1.10 | 07-Feb-18 | | | | | | | | | | | | | | | | |
| 1893505 | WS05 0.30 | 06-Feb-18 | | | | | | | | | | | | | | | CH | |
| 1893506 | WS05 1.00 | 06-Feb-18 | | | | | | | | | | | | | | | | |
| 1893507 | WS05 1.50 | 06-Feb-18 | | | | | | | | | | | | | | | | |
| 1893508 | WS06 0.40 | 06-Feb-18 | 13.5 | 9.32 | <6.26 | 31.3 | <6.26 | | | | | | | | | | CH | <0.125 |
| 1893509 | WS06 0.90 | 06-Feb-18 | | | | | | | | | | | | | | | | |
| 1893510 | WS07 0.50 | 06-Feb-18 | | | | | | | | | | | | | | | NAIIS | |
| 1893511 | WS07 1.20 | 06-Feb-18 | | | | | | | | | | | | | | | | |
| 1893512 | WS08 0.50 | 06-Feb-18 | <6.61 | <6.61 | <6.61 | 10.17 | 10.04 | <0.1 | <0.1* | <0.1 | <0.5 | <0.1 | 8.2 | <0.7 | <3 | | NAIIS | <0.132 |
| 1893513 | WS08 1.10 | 06-Feb-18 | | | | | | | | | | | | | | | NAIIS | |
| 1893514 | WS08 1.50 | 06-Feb-18 | <6.20 | <6.20 | <6.20 | <6.20 | <6.20 | | | | | | | | | | | <0.124 |
| 1893515 | WS09 0.40 | 07-Feb-18 | 16.6 | 16.5 | <6.54 | 44.1 | 31.8 | | | | | | | | | 0.026 | AM | <0.654 |
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**Client Name** RPS

**Contact** Adam Parker

# Project Chop

## Sample Analysis

| | |
|---|---|
| **Date Printed** | **13-Jun-2018** |
| **Report Number** | **EFS/183017M** |
| **Table Number** | **1** |



Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105°C where appropriate, in accordance with the MCERTS standard.

| | | Units : | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Method Codes : | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW |
| | | Method Reporting Limits : | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.5 | 0.2 | 0.5 | 0.1 | 0.1 | 0.1 | 0.1 | 0.5 |
| | | Accreditation Code: | U | U | U | U | U | U | U | U | N | U | U | U | U | U | U | N |
| LAB ID Number CL/ | Client Sample Description | Sample Date | 1,2-Dichlorobenzene | 1,3-Dichlorobenzene | 1,4-Dichlorobenzene | 1-Methylnaphthalene | 2,4,5-Trichlorophenol | 2,4,6-Trichlorophenol | 2,4-Dichlorophenol | 2,4-Dimethylphenol | 2,4-Dinitrophenol | 2,4-Dinitrotoluene | 2,6-Dinitrotoluene | 2-Chloronaphthalene | 2-Chlorophenol | 2-Methylnaphthalene | 2-Methylphenol | 2-Nitroaniline |
| 1893498 | WS01 0.70 | 07-Feb-18 | | | | | | | | | | | | | | | | |
| 1893499 | WS01 1.60 | 07-Feb-18 | | | | | | | | | | | | | | | | |
| 1893500 | WS03 0.50 | 07-Feb-18 | <0.118 | <0.118 | <0.118 | <0.118 | <0.118 | <0.118 | <0.118 | <0.118 | <0.588 | <0.235* | <0.588 | <0.118 | <0.118 | <0.118 | <0.118 | <0.588 |
| 1893501 | WS03 0.90 | 07-Feb-18 | | | | | | | | | | | | | | | | |
| 1893502 | WS03 1.50 | 07-Feb-18 | <0.143 | <0.143 | <0.143 | <0.143 | <0.143 | <0.143 | <0.143 | <0.143 | <0.716 | <0.287* | <0.716 | <0.143 | <0.143 | <0.143 | <0.143 | <0.716 |
| 1893503 | WS04 0.40 | 07-Feb-18 | <0.119 | <0.119 | <0.119 | <0.119 | <0.119 | <0.119 | <0.119 | <0.119 | <0.593 | <0.237* | <0.593 | <0.119 | <0.119 | 0.145 | <0.119 | <0.593 |
| 1893504 | WS04 1.10 | 07-Feb-18 | | | | | | | | | | | | | | | | |
| 1893505 | WS05 0.30 | 06-Feb-18 | | | | | | | | | | | | | | | | |
| 1893506 | WS05 1.00 | 06-Feb-18 | | | | | | | | | | | | | | | | |
| 1893507 | WS05 1.50 | 06-Feb-18 | | | | | | | | | | | | | | | | |
| 1893508 | WS06 0.40 | 06-Feb-18 | <0.125 | <0.125 | <0.125 | 0.198 | <0.125 | <0.125 | <0.125 | <0.125 | <0.626 | <0.250* | <0.626 | <0.125 | <0.125 | 0.353 | <0.125 | <0.626 |
| 1893509 | WS06 0.90 | 06-Feb-18 | | | | | | | | | | | | | | | | |
| 1893510 | WS07 0.50 | 06-Feb-18 | | | | | | | | | | | | | | | | |
| 1893511 | WS07 1.20 | 06-Feb-18 | | | | | | | | | | | | | | | | |
| 1893512 | WS08 0.50 | 06-Feb-18 | <0.132 | <0.132 | <0.132 | <0.132 | <0.132 | <0.132 | <0.132 | <0.132 | <0.661 | <0.264* | <0.661 | <0.132 | <0.132 | <0.132 | <0.132 | <0.661 |
| 1893513 | WS08 1.10 | 06-Feb-18 | | | | | | | | | | | | | | | | |
| 1893514 | WS08 1.50 | 06-Feb-18 | <0.124 | <0.124 | <0.124 | <0.124 | <0.124 | <0.124 | <0.124 | <0.124 | <0.620 | <0.248* | <0.620 | <0.124 | <0.124 | <0.124 | <0.124 | <0.620 |
| 1893515 | WS09 0.40 | 07-Feb-18 | <0.654 | <0.654 | <0.654 | <0.654 | <0.654 | <0.654 | <0.654 | <0.654 | <3.27 | <1.309* | <3.27 | <0.654 | <0.654 | <0.654 | <0.654 | <3.27 |
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**Client Name** RPS

**Contact** Adam Parker

# Project Chop

## Sample Analysis

| | |
|---|---|
| **Date Printed** | **13-Jun-2018** |
| **Report Number** | **EFS/183017M** |
| **Table Number** | **1** |



Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105°C where appropriate, in accordance with the MCERTS standard.

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | **Units :** | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| | | **Method Codes :** | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW |
| | | **Method Reporting Limits :** | 0.1 | 0.1 | 14.5 | 0.2 | 0.1 | 0.1 | 0.5 | 0.5 | 0.1 | 0.6 | 0.5 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | |
| | | **Accreditation Code:** | U | U | N | N | U | U | N | U | U | N | N | U | U | U | U | U | |
| **LAB ID Number CL/** | **Client Sample Description** | **Sample Date** | **2-Nitrophenol** | **3- & 4-Methylphenol** | **3-Nitroaniline** | **4,6-Dinitro-2-methylphenol** | **4-Bromophenyl-phenylether** | **4-Chloro-3-methylphenol** | **4-Chloroaniline** | **4-Chlorophenol** | **4-Chlorophenyl-phenylether** | **4-Nitroaniline** | **4-Nitrophenol** | **Acenaphthene** | **Acenaphthylene** | **Anthracene** | **Benzo(a)anthracene** | **Benzo(a)pyrene** | |
| 1893498 | WS01 0.70 | 07-Feb-18 | | | | | | | | | | | | | | | | | |
| 1893499 | WS01 1.60 | 07-Feb-18 | | | | | | | | | | | | | | | | | |
| 1893500 | WS03 0.50 | 07-Feb-18 | <0.118 | <0.118 | <17.1 | <0.235 | <0.118 | <0.118 | <0.588 | <0.588 | <0.118 | <0.706 | <0.588 | <0.118 | <0.118 | <0.118 | <0.235 | <0.235 | |
| 1893501 | WS03 0.90 | 07-Feb-18 | | | | | | | | | | | | | | | | | |
| 1893502 | WS03 1.50 | 07-Feb-18 | <0.143 | <0.143 | <20.8 | <0.287 | <0.143 | <0.143 | <0.716 | <0.716 | <0.143 | <0.860 | <0.716 | <0.143 | <0.143 | <0.143 | <0.287 | 0.351 | |
| 1893503 | WS04 0.40 | 07-Feb-18 | <0.119 | <0.119 | <17.2 | <0.237 | <0.119 | <0.119 | <0.593 | <0.593 | <0.119 | <0.712 | <0.593 | <0.119 | <0.119 | <0.119 | <0.237 | <0.237 | |
| 1893504 | WS04 1.10 | 07-Feb-18 | | | | | | | | | | | | | | | | | |
| 1893505 | WS05 0.30 | 06-Feb-18 | | | | | | | | | | | | | | | | | |
| 1893506 | WS05 1.00 | 06-Feb-18 | | | | | | | | | | | | | | | | | |
| 1893507 | WS05 1.50 | 06-Feb-18 | | | | | | | | | | | | | | | | | |
| 1893508 | WS06 0.40 | 06-Feb-18 | <0.125 | <0.125 | <18.1 | <0.250 | <0.125 | <0.125 | <0.626 | <0.626 | <0.125 | <0.751 | <0.626 | <0.125 | <0.125 | 0.198 | <0.250 | 0.528 | |
| 1893509 | WS06 0.90 | 06-Feb-18 | | | | | | | | | | | | | | | | | |
| 1893510 | WS07 0.50 | 06-Feb-18 | | | | | | | | | | | | | | | | | |
| 1893511 | WS07 1.20 | 06-Feb-18 | | | | | | | | | | | | | | | | | |
| 1893512 | WS08 0.50 | 06-Feb-18 | <0.132 | <0.132 | <19.2 | <0.264 | <0.132 | <0.132 | <0.661 | <0.661 | <0.132 | <0.793 | <0.661 | <0.132 | <0.132 | <0.132 | <0.264 | <0.264 | |
| 1893513 | WS08 1.10 | 06-Feb-18 | | | | | | | | | | | | | | | | | |
| 1893514 | WS08 1.50 | 06-Feb-18 | <0.124 | <0.124 | <18.0 | <0.248 | <0.124 | <0.124 | <0.620 | <0.620 | <0.124 | <0.743 | <0.620 | <0.124 | <0.124 | <0.124 | <0.248 | <0.248 | |
| 1893515 | WS09 0.40 | 07-Feb-18 | <0.654 | <0.654 | <94.9 | <1.309 | <0.654 | <0.654 | <3.27 | <3.27 | <0.654 | <3.93 | <3.27 | <0.654 | <0.654 | <0.654 | <1.309 | <1.309 | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |


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**Client Name** RPS

**Contact** Adam Parker

# Project Chop

## Sample Analysis

| | |
|---|---|
| **Date Printed** | **13-Jun-2018** |
| **Report Number** | **EFS/183017M** |
| **Table Number** | **1** |



Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105°C where appropriate, in accordance with the MCERTS standard.

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | **Units :** | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| | | **Method Codes :** | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW |
| | | **Method Reporting Limits :** | 0.2 | 0.5 | 0.2 | 0.5 | 0.5 | 0.1 | 0.1 | 0.1 | 0.5 | 0.2 | 0.2 | 0.1 | 0.3 | 0.5 | 0.1 | 0.1 | |
| | | **Accreditation Code:** | U | U | U | N | U | U | U | U | U | U | U | U | N | U | U | U | |
| **LAB ID Number CL/** | **Client Sample Description** | **Sample Date** | **Benzo(b)fluoranthene** | **Benzo(ghi)perylene** | **Benzo(k)fluoranthene** | **Benzoic Acid** | **Benzyl alcohol** | **Biphenyl** | **bis(2-Chloroethoxy)methane** | **bis(2-Chloroethyl)ether** | **bis(2-Chloroisopropyl)ether** | **bis(2-Ethylhexyl)phthalate** | **Butylbenzylphthalate** | **Chrysene** | **Coronene** | **Dibenzo(ah)anthracene** | **Dibenzofuran** | **Diethylphthalate** | |
| 1893498 | WS01 0.70 | **07-Feb-18** | | | | | | | | | | | | | | | | | |
| 1893499 | WS01 1.60 | **07-Feb-18** | | | | | | | | | | | | | | | | | |
| 1893500 | WS03 0.50 | **07-Feb-18** | <0.235 | <0.588 | <0.235 | <0.588 | <0.588 | <0.118 | <0.118 | <0.118* | <0.588 | 0.638 | <0.235 | <0.118 | <0.353 | <0.588 | <0.118* | <0.118* | |
| 1893501 | WS03 0.90 | **07-Feb-18** | | | | | | | | | | | | | | | | | |
| 1893502 | WS03 1.50 | **07-Feb-18** | 0.377 | <0.716 | <0.287 | <0.716 | <0.716 | <0.143 | <0.143 | <0.143* | <0.716 | <0.287 | <0.287 | <0.143 | <0.430 | <0.716 | <0.143* | <0.143* | |
| 1893503 | WS04 0.40 | **07-Feb-18** | <0.237 | <0.593 | <0.237 | <0.593 | <0.593 | <0.119 | <0.119 | <0.119* | <0.593 | 5.75 | <0.237 | <0.119 | <0.356 | <0.593 | <0.119* | <0.119* | |
| 1893504 | WS04 1.10 | **07-Feb-18** | | | | | | | | | | | | | | | | | |
| 1893505 | WS05 0.30 | **06-Feb-18** | | | | | | | | | | | | | | | | | |
| 1893506 | WS05 1.00 | **06-Feb-18** | | | | | | | | | | | | | | | | | |
| 1893507 | WS05 1.50 | **06-Feb-18** | | | | | | | | | | | | | | | | | |
| 1893508 | WS06 0.40 | **06-Feb-18** | 0.627 | <0.626 | 0.295 | <0.626 | <0.626 | <0.125 | <0.125 | <0.125* | <0.626 | <0.250 | <0.250 | <0.125 | <0.375 | <0.626 | 0.130* | <0.125* | |
| 1893509 | WS06 0.90 | **06-Feb-18** | | | | | | | | | | | | | | | | | |
| 1893510 | WS07 0.50 | **06-Feb-18** | | | | | | | | | | | | | | | | | |
| 1893511 | WS07 1.20 | **06-Feb-18** | | | | | | | | | | | | | | | | | |
| 1893512 | WS08 0.50 | **06-Feb-18** | 0.820 | <0.661 | <0.264 | <0.661 | <0.661 | <0.132 | <0.132 | <0.132* | <0.661 | 6.10 | <0.264 | <0.132 | <0.396 | <0.661 | 0.223* | <0.132* | |
| 1893513 | WS08 1.10 | **06-Feb-18** | | | | | | | | | | | | | | | | | |
| 1893514 | WS08 1.50 | **06-Feb-18** | <0.248 | <0.620 | <0.248 | <0.620 | <0.620 | <0.124 | <0.124 | <0.124* | <0.620 | <0.248 | <0.248 | <0.124 | <0.372 | <0.620 | <0.124* | <0.124* | |
| 1893515 | WS09 0.40 | **07-Feb-18** | <1.309 | <3.27 | <1.309 | <3.27 | <3.27 | <0.654 | <0.654 | <0.654* | <3.27 | 6.15 | <1.309 | <0.654 | <1.96 | <3.27 | <0.654* | <0.654* | |
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**Client Name** RPS

**Contact** Adam Parker

# Project Chop

## Sample Analysis

| | |
|---|---|
| **Date Printed** | **13-Jun-2018** |
| **Report Number** | **EFS/183017M** |
| **Table Number** | **1** |



Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105°C where appropriate, in accordance with the MCERTS standard.

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Units :** | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| **Method Codes :** | | | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW |
| **Method Reporting Limits :** | | | 0.1 | 0.1 | 0.2 | 0.1 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.5 | 0.1 | 0.1 | 0.5 | 0.9 | 0.1 | |
| **Accreditation Code:** | | | U | U | U | U | U | U | U | N | N | U | U | N | U | U | N | N | |
| **LAB ID Number CL/** | **Client Sample Description** | **Sample Date** | **Dimethylphthalate** | **Di-n-butylphthalate** | **Di-n-octylphthalate** | **Diphenyl Ether** | **Fluoranthene** | **Fluorene** | **Hexachlorobenzene** | **Hexachlorobutadiene** | **Hexachlorocyclopentadiene** | **Hexachloroethane** | **Indeno(123-cd)pyrene** | **Isophorone** | **Naphthalene** | **Nitrobenzene** | **N-Nitroso-di-n-propylamine** | **N-Nitrosodiphenylamine** | |
| 1893498 | WS01 0.70 | 07-Feb-18 | | | | | | | | | | | | | | | | | |
| 1893499 | WS01 1.60 | 07-Feb-18 | | | | | | | | | | | | | | | | | |
| 1893500 | WS03 0.50 | 07-Feb-18 | <0.118 | <0.118 | <0.235* | <0.118 | <0.235 | <0.235 | <0.118 | <0.118 | <0.118 | <0.118* | <0.588 | <0.118 | <0.118 | <0.588 | <1.059 | <0.118 | |
| 1893501 | WS03 0.90 | 07-Feb-18 | | | | | | | | | | | | | | | | | |
| 1893502 | WS03 1.50 | 07-Feb-18 | <0.143 | <0.143 | <0.287* | <0.143 | 0.487 | <0.287 | <0.143 | <0.143 | <0.143 | <0.143* | <0.716 | <0.143 | <0.143 | <0.716 | <1.289 | <0.143 | |
| 1893503 | WS04 0.40 | 07-Feb-18 | <0.119 | 29.1 | <0.237* | <0.119 | <0.237 | <0.237 | <0.119 | <0.119 | <0.119 | <0.119* | <0.593 | <0.119 | <0.119 | <0.593 | <1.068 | <0.119 | |
| 1893504 | WS04 1.10 | 07-Feb-18 | | | | | | | | | | | | | | | | | |
| 1893505 | WS05 0.30 | 06-Feb-18 | | | | | | | | | | | | | | | | | |
| 1893506 | WS05 1.00 | 06-Feb-18 | | | | | | | | | | | | | | | | | |
| 1893507 | WS05 1.50 | 06-Feb-18 | | | | | | | | | | | | | | | | | |
| 1893508 | WS06 0.40 | 06-Feb-18 | <0.125 | 0.128 | <0.250* | <0.125 | 0.817 | <0.250 | <0.125 | <0.125 | <0.125 | <0.125* | <0.626 | <0.125 | <0.125 | <0.626 | <1.126 | <0.125 | |
| 1893509 | WS06 0.90 | 06-Feb-18 | | | | | | | | | | | | | | | | | |
| 1893510 | WS07 0.50 | 06-Feb-18 | | | | | | | | | | | | | | | | | |
| 1893511 | WS07 1.20 | 06-Feb-18 | | | | | | | | | | | | | | | | | |
| 1893512 | WS08 0.50 | 06-Feb-18 | <0.132 | 0.664 | <0.264* | <0.132 | <0.264 | <0.264 | <0.132 | <0.132 | <0.132 | <0.132* | <0.661 | <0.132 | <0.132 | <0.661 | <1.189 | <0.132 | |
| 1893513 | WS08 1.10 | 06-Feb-18 | | | | | | | | | | | | | | | | | |
| 1893514 | WS08 1.50 | 06-Feb-18 | <0.124 | <0.124 | <0.248* | <0.124 | <0.248 | <0.248 | <0.124 | <0.124 | <0.124 | <0.124* | <0.620 | <0.124 | <0.124 | <0.620 | <1.115 | <0.124 | |
| 1893515 | WS09 0.40 | 07-Feb-18 | <0.654 | 0.861 | <1.309* | <0.654 | <1.309 | <1.309 | <0.654 | <0.654 | <0.654 | <0.654* | <3.27 | <0.654 | <0.654 | <3.27 | <5.89 | <0.654 | |
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| | |
|---|---|
| **Client Name** | **RPS** |
| **Contact** | Adam Parker |

# Project Chop

## Sample Analysis

| | |
|---|---|
| **Date Printed** | **13-Jun-2018** |
| **Report Number** | **EFS/183017M** |
| **Table Number** | **1** |



Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105°C where appropriate, in accordance with the MCERTS standard.

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Units :** | | | mg/kg | mg/kg | mg/kg | mg/kg | % | mg/kg | mg/kg | mg/kg | µg/kg | µg/kg | µg/kg | µg/kg | µg/kg | µg/kg | µg/kg | µg/kg |
| **Method Codes :** | | | SVOCSW | SVOCSW | SVOCSW | SVOCSW | TMSS | TPHFIDUS | TPHFIDUS | TPHUSSI | VOCHSAS | VOCHSAS | VOCHSAS | VOCHSAS | VOCHSAS | VOCHSAS | VOCHSAS | VOCHSAS |
| **Method Reporting Limits :** | | | 0.5 | 0.1 | 0.1 | 0.2 | 0.1 | 10 | 10 | 20 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 3 |
| **Accreditation Code:** | | | N | U | U | U | U | U | UM | | UM | UM | N | UM | UM | U | UM | UM |
| **LAB ID Number CL/** | **Client Sample Description** | **Sample Date** | **Pentachlorophenol** | **Phenanthrene** | **Phenol** | **Pyrene** | **Tot.Moisture @ 105C** | **TPH Band (>C10-C40)** | **TPH by GCFID (AR)** | **TPH by GCFID (AR/Si)** | **1,1,1,2-Tetrachloroethane** | **1,1,1-Trichloroethane** | **1,1,2,2-Tetrachloroethane** | **1,1,2-Trichloroethane** | **1,1-Dichloroethane** | **1,1-Dichloroethene** | **1,1-Dichloropropene** | **1,2,3-Trichlorobenzene** |
| 1893498 | WS01 0.70 | 07-Feb-18 | | | | | 11.7 | | | Req | | | | | | | | |
| 1893499 | WS01 1.60 | 07-Feb-18 | | | | | 30.2 | | | Req | | | | | | | | |
| 1893500 | WS03 0.50 | 07-Feb-18 | <0.588 | <0.118 | <0.118 | <0.235 | 15.0 | 8320 | 8320 | Req | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2* | <1.2 | <3.5 |
| 1893501 | WS03 0.90 | 07-Feb-18 | | | | | 21.6 | | | Req | | | | | | | | |
| 1893502 | WS03 1.50 | 07-Feb-18 | <0.716 | <0.143 | <0.143 | 0.404 | 30.2 | | | Req | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4* | <1.4 | <4.3 |
| 1893503 | WS04 0.40 | 07-Feb-18 | <0.593 | <0.119 | <0.119 | 0.317 | 15.7 | | | Req | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2* | <1.2 | <3.6 |
| 1893504 | WS04 1.10 | 07-Feb-18 | | | | | 18.8 | | | Req | | | | | | | | |
| 1893505 | WS05 0.30 | 06-Feb-18 | | | | | 19.2 | | | Req | | | | | | | | |
| 1893506 | WS05 1.00 | 06-Feb-18 | | | | | 13.8 | | | Req | | | | | | | | |
| 1893507 | WS05 1.50 | 06-Feb-18 | | | | | 11.1 | | | Req | | | | | | | | |
| 1893508 | WS06 0.40 | 06-Feb-18 | <0.626 | <0.125 | <0.125 | 0.698 | 20.1 | | | Req | <1.3 | <1.3 | <1.3 | <1.3 | <1.3 | <1.3* | <1.3 | <3.8 |
| 1893509 | WS06 0.90 | 06-Feb-18 | | | | | 16.6 | | | Req | | | | | | | | |
| 1893510 | WS07 0.50 | 06-Feb-18 | | | | | 14.5 | | | Req | | | | | | | | |
| 1893511 | WS07 1.20 | 06-Feb-18 | | | | | 20.9 | | | Req | | | | | | | | |
| 1893512 | WS08 0.50 | 06-Feb-18 | <0.661 | <0.132 | <0.132 | 1.37 | 24.3 | 7150 | 7160 | Req | <1.3 | <1.3 | <1.3 | <1.3 | <1.3 | <1.3* | <1.3 | <4.0 |
| 1893513 | WS08 1.10 | 06-Feb-18 | | | | | 16.2 | | | Req | | | | | | | | |
| 1893514 | WS08 1.50 | 06-Feb-18 | <0.620 | <0.124 | <0.124 | <0.248 | 19.3 | | | Req | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2* | <1.2 | <3.7 |
| 1893515 | WS09 0.40 | 07-Feb-18 | <3.27 | <0.654 | <0.654 | 1.81 | 23.6 | | | Req | <1.3 | <1.3 | <1.3 | <1.3 | <1.3 | <1.3* | <1.3 | <3.9 |
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**Client Name** RPS

**Contact** Adam Parker

# Project Chop

## Sample Analysis

| | |
|---|---|
| **Date Printed** | **13-Jun-2018** |
| **Report Number** | **EFS/183017M** |
| **Table Number** | **1** |



Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105°C where appropriate, in accordance with the MCERTS standard.

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Units :** | | | µg/kg | µg/kg | µg/kg | µg/kg | µg/kg | µg/kg | µg/kg | µg/kg | µg/kg | µg/kg | µg/kg | µg/kg | µg/kg | µg/kg | µg/kg | µg/kg | µg/kg |
| **Method Codes :** | | | VOCHSAS | VOCHSAS | VOCHSAS | VOCHSAS | VOCHSAS | VOCHSAS | VOCHSAS | VOCHSAS | VOCHSAS | VOCHSAS | VOCHSAS | VOCHSAS | VOCHSAS | VOCHSAS | VOCHSAS | VOCHSAS | VOCHSAS |
| **Method Reporting Limits :** | | | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| **Accreditation Code:** | | | UM | N | UM | N | UM | UM | UM | UM | UM | UM | UM | UM | UM | UM | UM | UM | UM |
| **LAB ID Number CL/** | **Client Sample Description** | **Sample Date** | **1,2,3-Trichloropropane** | **1,2,4-Trichlorobenzene** | **1,2,4-Trimethylbenzene** | **1,2-Dibromo-3-chloropropane** | **1,2-Dibromoethane** | **1,2-Dichlorobenzene** | **1,2-Dichloroethane** | **1,2-Dichloropropane** | **1,3,5-Trimethylbenzene** | **1,3-Dichlorobenzene** | **1,3-Dichloropropane** | **1,4-Dichlorobenzene** | **2,2-Dichloropropane** | **2-Chlorotoluene** | **4-Chlorotoluene** | **Benzene** |
| 1893498 | WS01 0.70 | 07-Feb-18 | | | | | | | | | | | | | | | | | |
| 1893499 | WS01 1.60 | 07-Feb-18 | | | | | | | | | | | | | | | | | |
| 1893500 | WS03 0.50 | 07-Feb-18 | <1.2 | <3.5 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 |
| 1893501 | WS03 0.90 | 07-Feb-18 | | | | | | | | | | | | | | | | | |
| 1893502 | WS03 1.50 | 07-Feb-18 | <1.4 | <4.3 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 |
| 1893503 | WS04 0.40 | 07-Feb-18 | <1.2 | <3.6 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 |
| 1893504 | WS04 1.10 | 07-Feb-18 | | | | | | | | | | | | | | | | | |
| 1893505 | WS05 0.30 | 06-Feb-18 | | | | | | | | | | | | | | | | | |
| 1893506 | WS05 1.00 | 06-Feb-18 | | | | | | | | | | | | | | | | | |
| 1893507 | WS05 1.50 | 06-Feb-18 | | | | | | | | | | | | | | | | | |
| 1893508 | WS06 0.40 | 06-Feb-18 | <1.3 | <3.8 | <1.3 | <1.3 | <1.3 | <1.3 | <1.3 | <1.3 | <1.3 | <1.3 | <1.3 | <1.3 | <1.3 | <1.3 | <1.3 | <1.3 | <1.3 |
| 1893509 | WS06 0.90 | 06-Feb-18 | | | | | | | | | | | | | | | | | |
| 1893510 | WS07 0.50 | 06-Feb-18 | | | | | | | | | | | | | | | | | |
| 1893511 | WS07 1.20 | 06-Feb-18 | | | | | | | | | | | | | | | | | |
| 1893512 | WS08 0.50 | 06-Feb-18 | <1.3 | <4.0 | <1.3 | <1.3 | <1.3 | <1.3 | <1.3 | <1.3 | 43.6 | <1.3 | <1.3 | <1.3 | <1.3 | <1.3 | <1.3 | <1.3 | <1.3 |
| 1893513 | WS08 1.10 | 06-Feb-18 | | | | | | | | | | | | | | | | | |
| 1893514 | WS08 1.50 | 06-Feb-18 | <1.2 | <3.7 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 |
| 1893515 | WS09 0.40 | 07-Feb-18 | <1.3 | <3.9 | <1.3 | <1.3 | <1.3 | <1.3 | <1.3 | <1.3 | <1.3 | <1.3 | <1.3 | <1.3 | <1.3 | <1.3 | <1.3 | <1.3 | <1.3 |
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**Client Name** RPS

**Contact** Adam Parker

# Project Chop

## Sample Analysis

| | |
|---|---|
| **Date Printed** | **13-Jun-2018** |
| **Report Number** | **EFS/183017M** |
| **Table Number** | **1** |



Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105°C where appropriate, in accordance with the MCERTS standard.

| | | Units : | µg/kg | µg/kg | µg/kg | µg/kg | µg/kg | µg/kg | µg/kg | µg/kg | µg/kg | µg/kg | µg/kg | µg/kg | µg/kg | µg/kg | µg/kg | µg/kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Method Codes : | VOCHSAS | VOCHSAS | VOCHSAS | VOCHSAS | VOCHSAS | VOCHSAS | VOCHSAS | VOCHSAS | VOCHSAS | VOCHSAS | VOCHSAS | VOCHSAS | VOCHSAS | VOCHSAS | VOCHSAS | VOCHSAS |
| | | Method Reporting Limits : | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 3 | 5 | 1 | 1 | 1 | 1 | 2 |
| | | Accreditation Code: | UM | UM | UM | UM | UM | UM | UM | UM | UM | U | UM | UM | UM | UM | N | UM |
| LAB ID Number CL/ | Client Sample Description | Sample Date | Bromobenzene | Bromochloromethane | Bromodichloromethane | Bromoform | Bromomethane | Carbon Tetrachloride | Chlorobenzene | Chloroethane | Chloroform | Chloromethane | cis 1,2-Dichloroethene | cis 1,3-Dichloropropene | Dibromochloromethane | Dibromomethane | Dichlorodifluoromethane | Ethylbenzene |
| 1893498 | WS01 0.70 | 07-Feb-18 | | | | | | | | | | | | | | | | |
| 1893499 | WS01 1.60 | 07-Feb-18 | | | | | | | | | | | | | | | | |
| 1893500 | WS03 0.50 | 07-Feb-18 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2* | <1.2 | <1.2 | <2.4* | <1.2 | <3.5* | <5.9 | <1.2 | <1.2 | <1.2 | <1.2 | 4.7 |
| 1893501 | WS03 0.90 | 07-Feb-18 | | | | | | | | | | | | | | | | |
| 1893502 | WS03 1.50 | 07-Feb-18 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4* | <1.4 | <1.4 | <2.9* | <1.4 | <4.3* | <7.2 | <1.4 | <1.4 | <1.4 | <1.4 | <2.9 |
| 1893503 | WS04 0.40 | 07-Feb-18 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2* | <1.2 | <1.2 | <2.4* | <1.2 | <3.6* | <5.9 | <1.2 | <1.2 | <1.2 | <1.2 | <2.4 |
| 1893504 | WS04 1.10 | 07-Feb-18 | | | | | | | | | | | | | | | | |
| 1893505 | WS05 0.30 | 06-Feb-18 | | | | | | | | | | | | | | | | |
| 1893506 | WS05 1.00 | 06-Feb-18 | | | | | | | | | | | | | | | | |
| 1893507 | WS05 1.50 | 06-Feb-18 | | | | | | | | | | | | | | | | |
| 1893508 | WS06 0.40 | 06-Feb-18 | <1.3 | <1.3 | <1.3 | <1.3 | <1.3* | <1.3 | <1.3 | <2.5* | <1.3 | <3.8* | <6.3 | <1.3 | <1.3 | <1.3 | <1.3 | 5.0 |
| 1893509 | WS06 0.90 | 06-Feb-18 | | | | | | | | | | | | | | | | |
| 1893510 | WS07 0.50 | 06-Feb-18 | | | | | | | | | | | | | | | | |
| 1893511 | WS07 1.20 | 06-Feb-18 | | | | | | | | | | | | | | | | |
| 1893512 | WS08 0.50 | 06-Feb-18 | <1.3 | <1.3 | <1.3 | <1.3 | <1.3* | <1.3 | <1.3 | 4.0* | <1.3 | <4.0* | <6.6 | <1.3 | <1.3 | <1.3 | <1.3 | 80.6 |
| 1893513 | WS08 1.10 | 06-Feb-18 | | | | | | | | | | | | | | | | |
| 1893514 | WS08 1.50 | 06-Feb-18 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2* | <1.2 | <1.2 | <2.5* | <1.2 | <3.7* | <6.2 | <1.2 | <1.2 | <1.2 | <1.2 | <2.5 |
| 1893515 | WS09 0.40 | 07-Feb-18 | <1.3 | <1.3 | <1.3 | <1.3 | <1.3* | <1.3 | <1.3 | <2.6* | <1.3 | <3.9* | <6.5 | <1.3 | <1.3 | <1.3 | <1.3 | 20.9 |
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**Client Name** RPS

**Contact** Adam Parker

# Project Chop

## Sample Analysis

| | |
|---|---|
| **Date Printed** | **13-Jun-2018** |
| **Report Number** | **EFS/183017M** |
| **Table Number** | **1** |



Where individual results are flagged see report notes for status.
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| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Units :** | | | µg/kg | µg/kg | µg/kg | µg/kg | µg/kg | µg/kg | µg/kg | µg/kg | µg/kg | µg/kg | µg/kg | µg/kg | µg/kg | µg/kg | µg/kg | µg/kg | µg/kg |
| **Method Codes :** | | | VOCHSAS | VOCHSAS | VOCHSAS | VOCHSAS | VOCHSAS | VOCHSAS | VOCHSAS | VOCHSAS | VOCHSAS | VOCHSAS | VOCHSAS | VOCHSAS | VOCHSAS | VOCHSAS | VOCHSAS | VOCHSAS | VOCHSAS |
| **Method Reporting Limits :** | | | 2 | 1 | 4 | 1 | 5 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 3 | 5 | 1 | 1 | |
| **Accreditation Code:** | | | N | UM | UM | UM | UM | U | UM | UM | UM | UM | UM | UM | UM | UM | UM | UM | |
| **LAB ID Number CL/** | **Client Sample Description** | **Sample Date** | **Hexachlorobutadiene** | **iso-Propylbenzene** | **m and p-Xylene** | **MTBE** | **Naphthalene** | **n-Butylbenzene** | **o-Xylene** | **p-Isopropyltoluene** | **Propylbenzene** | **sec-Butylbenzene** | **Styrene** | **tert-Butylbenzene** | **Tetrachloroethene** | **Toluene** | **trans 1,2-Dichloroethene** | **trans 1,3-Dichloropropene** | |
| 1893498 | WS01 0.70 | 07-Feb-18 | | | | | | | | | | | | | | | | | |
| 1893499 | WS01 1.60 | 07-Feb-18 | | | | | | | | | | | | | | | | | |
| 1893500 | WS03 0.50 | 07-Feb-18 | <2.4 | <1.2 | <4.7 | <1.2 | <5.9 | <1.2 | <2.4 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | 4.7 | <5.9 | <1.2 | <1.2 | |
| 1893501 | WS03 0.90 | 07-Feb-18 | | | | | | | | | | | | | | | | | |
| 1893502 | WS03 1.50 | 07-Feb-18 | <2.9 | <1.4 | <5.7 | <1.4 | 11.5 | <1.4 | <2.9 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <4.3 | <7.2 | <1.4 | <1.4 | |
| 1893503 | WS04 0.40 | 07-Feb-18 | <2.4 | <1.2 | <4.7 | <1.2 | <5.9 | <1.2 | <2.4 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <3.6 | <5.9 | <1.2 | <1.2 | |
| 1893504 | WS04 1.10 | 07-Feb-18 | | | | | | | | | | | | | | | | | |
| 1893505 | WS05 0.30 | 06-Feb-18 | | | | | | | | | | | | | | | | | |
| 1893506 | WS05 1.00 | 06-Feb-18 | | | | | | | | | | | | | | | | | |
| 1893507 | WS05 1.50 | 06-Feb-18 | | | | | | | | | | | | | | | | | |
| 1893508 | WS06 0.40 | 06-Feb-18 | <2.5 | <1.3 | 6.3 | <1.3 | 16.3 | <1.3 | 3.8 | <1.3 | <1.3 | <1.3 | <1.3 | <1.3 | <3.8 | 6.3 | <1.3 | <1.3 | |
| 1893509 | WS06 0.90 | 06-Feb-18 | | | | | | | | | | | | | | | | | |
| 1893510 | WS07 0.50 | 06-Feb-18 | | | | | | | | | | | | | | | | | |
| 1893511 | WS07 1.20 | 06-Feb-18 | | | | | | | | | | | | | | | | | |
| 1893512 | WS08 0.50 | 06-Feb-18 | <2.6 | <1.3 | 42.3 | <1.3 | <6.6 | <1.3 | 22.5 | <1.3 | <1.3 | <1.3 | 18.5 | <1.3 | <4.0 | 33.0 | <1.3 | <1.3 | |
| 1893513 | WS08 1.10 | 06-Feb-18 | | | | | | | | | | | | | | | | | |
| 1893514 | WS08 1.50 | 06-Feb-18 | <2.5 | <1.2 | <5.0 | <1.2 | <6.2 | <1.2 | <2.5 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <3.7 | <6.2 | <1.2 | <1.2 | |
| 1893515 | WS09 0.40 | 07-Feb-18 | <2.6 | <1.3 | 27.5 | <1.3 | 69.4 | <1.3 | 10.5 | <1.3 | <1.3 | <1.3 | 6.5 | <1.3 | <3.9 | 38.0 | <1.3 | <1.3 | |
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| | |
|---|---|
| **Client Name** | **RPS** |
| **Contact** | Adam Parker |

# Project Chop

## Sample Analysis

| | |
|---|---|
| **Date Printed** | **13-Jun-2018** |
| **Report Number** | **EFS/183017M** |
| **Table Number** | **1** |



Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105°C where appropriate, in accordance with the MCERTS standard.

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Units :** | | | µg/kg | µg/kg | µg/kg | % M/M | | | | | | | | | | | | |
| **Method Codes :** | | | VOCHSAS | VOCHSAS | VOCHSAS | WSLM59 | | | | | | | | | | | | |
| **Method Reporting Limits :** | | | 1 | 1 | 1 | 0.02 | | | | | | | | | | | | |
| **Accreditation Code:** | | | UM | UM | UM | N | | | | | | | | | | | | |
| **LAB ID Number CL/** | **Client Sample Description** | **Sample Date** | **Trichloroethene** | **Trichlorofluoromethane** | **Vinyl Chloride** | **Total Organic Carbon** | | | | | | | | | | | | |
| 1893498 | WS01 0.70 | 07-Feb-18 | | | | | | | | | | | | | | | | |
| 1893499 | WS01 1.60 | 07-Feb-18 | | | | | | | | | | | | | | | | |
| 1893500 | WS03 0.50 | 07-Feb-18 | <1.2 | <1.2* | <1.2* | 2.709* | | | | | | | | | | | | |
| 1893501 | WS03 0.90 | 07-Feb-18 | | | | | | | | | | | | | | | | |
| 1893502 | WS03 1.50 | 07-Feb-18 | <1.4 | <1.4* | <1.4* | | | | | | | | | | | | | |
| 1893503 | WS04 0.40 | 07-Feb-18 | <1.2 | <1.2* | <1.2* | | | | | | | | | | | | | |
| 1893504 | WS04 1.10 | 07-Feb-18 | | | | | | | | | | | | | | | | |
| 1893505 | WS05 0.30 | 06-Feb-18 | | | | | | | | | | | | | | | | |
| 1893506 | WS05 1.00 | 06-Feb-18 | | | | | | | | | | | | | | | | |
| 1893507 | WS05 1.50 | 06-Feb-18 | | | | | | | | | | | | | | | | |
| 1893508 | WS06 0.40 | 06-Feb-18 | <1.3 | <1.3* | <1.3* | | | | | | | | | | | | | |
| 1893509 | WS06 0.90 | 06-Feb-18 | | | | | | | | | | | | | | | | |
| 1893510 | WS07 0.50 | 06-Feb-18 | | | | | | | | | | | | | | | | |
| 1893511 | WS07 1.20 | 06-Feb-18 | | | | | | | | | | | | | | | | |
| 1893512 | WS08 0.50 | 06-Feb-18 | <1.3 | 1.3* | <1.3* | 13.06* | | | | | | | | | | | | |
| 1893513 | WS08 1.10 | 06-Feb-18 | | | | | | | | | | | | | | | | |
| 1893514 | WS08 1.50 | 06-Feb-18 | <1.2 | <1.2* | <1.2* | | | | | | | | | | | | | |
| 1893515 | WS09 0.40 | 07-Feb-18 | <1.3 | <1.3* | <1.3* | | | | | | | | | | | | | |
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**Client Name** RPS

**Contact** Adam Parker

# Project Chop

## Sample Analysis

| | |
|---|---|
| **Date Printed** | **13-Jun-2018** |
| **Report Number** | **EFS/183017M** |
| **Table Number** | **1** |



Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105°C where appropriate, in accordance with the MCERTS standard.

# SVOC (TICs)

**Accredited?:No**

| | | | |
|---|---|---|---|
| **Customer and Site Details:** | RPS: Project Chop | | |
| **Sample Details:** | WS03 0.50 | **Job Number:** | S18_3017 |
| **LIMS ID Number:** | CL1893500 | | |
| | | **Multiplier:** | 0.2 |
| **Date Booked in:** | 09-Feb-18 | **Dilution Factor:** | 1 |
| **Date Extracted:** | 09-Feb-18 | **GPC (Y/N):** | N |
| **Date Analysed:** | 15-Feb-18 | **Matrix:** | Soil |
| **QC Batch Number:** | 180029 | **Method:** | Ultrasonic |
| **Directory/Quant File:** | 021418_MS16\ 0 | **Operator:** | RP/AK |

| Tentatively Identified Compounds | CAS # | R.T. | Concentration mg/kg | % Fit | Accr. code |
|---|---|---|---|---|---|
| .beta.-iso-methyl ionone | 000000-00-0 | 12.32 | 8.853 | 64 | N |
| Pentadecane, 2,6,10-trimethyl- $$ 2,6,10-Trimethylpentadeca | 003892-00-0 | 11.40 | 8.628 | 76 | N |
| 4,4-Dimethyl-1(10--5)-abeo-10(5--6.alpha.H)-abeo-cholesta-1 | 056761-45-6 | 9.52 | 6.717 | 87 | N |
| 14-.BETA.-H-PREGNA | 999427-18-0 | 6.43 | 6.232 | 95 | N |
| Unidentified Compound | - | 8.66 | 6.124 | - | N |
| Hexadecane, 2,6,10,14-tetramethyl | 000638-36-8 | 8.34 | 5.727 | 91 | N |
| Heneicosane | 000629-94-7 | 7.51 | 5.428 | 91 | N |
| Pentadecane, 2,6,10-trimethyl- $$ 2,6,10-Trimethylpentadeca | 003892-00-0 | 14.47 | 4.912 | 87 | N |
| Unidentified Compound | - | 13.30 | 4.657 | - | N |
| Heptacosane $$ n-Heptacosane | 000593-49-7 | 12.14 | 4.652 | 58 | N |
| Docosane | 000629-97-0 | 9.23 | 4.406 | 93 | N |
| Heptadecane, 9-octyl | 007225-64-1 | 7.97 | 4.323 | 70 | N |
| Cholestane | 014982-53-7 | 10.53 | 4.259 | 86 | N |
| MIXTURE OF CHOLESTANE,COPRESTANE,AND 24-METI | 000000-00-0 | 10.78 | 3.622 | 89 | N |
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The compounds listed above have been tentatively identified by a computer based library search.
Compounds identified in the sample are not reported if they also occur in the method blank.
The % fit is an indication of the reliability of the compound assignment.
Due to the similarity between mass spectra of some isomeric compounds assignments may not be correct.
Other compounds may also be present but identification was not possible.
Concentrations are semi-quantitative, assume a response factor of 1 and use the nearest internal standard.
Concentrations are reported on a dry weight basis.



Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105°C where appropriate, in accordance with the MCERTS standard.

# SVOC (TICs)

**Accredited?:No**

| | | | |
|---|---|---|---|
| **Customer and Site Details:** | RPS: Project Chop | | |
| **Sample Details:** | WS03 1.50 | **Job Number:** | S18_3017 |
| **LIMS ID Number:** | CL1893502 | | |
| | | **Multiplier:** | 0.2 |
| **Date Booked in:** | 09-Feb-18 | **Dilution Factor:** | 1 |
| **Date Extracted:** | 09-Feb-18 | **GPC (Y/N):** | N |
| **Date Analysed:** | 15-Feb-18 | **Matrix:** | Soil |
| **QC Batch Number:** | 180029 | **Method:** | Ultrasonic |
| **Directory/Quant File:** | 021418_MS16\ 0 | **Operator:** | RP/AK |

| Tentatively Identified Compounds | CAS # | R.T. | Concentration mg/kg | % Fit | Accr. code |
|---|---|---|---|---|---|
| Unidentified Compound | 999232-18-9 | 15.77 | 4.881 | - | N |
| (-)-18-noramborx | 105561-28-2 | 13.68 | 4.105 | - | N |
| 7-Hydroxy-6-nitrocoumarin | 999198-27-6 | 13.93 | 3.831 | 59 | N |
| cis-3,3a,4,5,6,7-Hexahydro-7-(2-thienyl)cyclohexa[c]isoxazole | 999198-65-7 | 15.10 | 2.770 | 53 | N |
| Gammacerane | 999676-52-3 | 12.69 | 2.499 | 72 | N |
| Unidentified Compound | 000297-35-8 | 12.56 | 2.318 | - | N |
| 3-Methyl-6-(4'-bromophenyl)imidazo[2,1-b]oxazole | 999391-19-1 | 12.79 | 1.981 | 58 | N |
| Pyridine-3-carboxamide, oxime, N-(2-trifluoromethylphenyl)- | 288246-53-7 | 13.01 | 1.845 | 90 | N |
| Nonacosane | 000630-03-5 | 11.26 | 1.764 | 50 | N |
| Eicosane | 000112-95-8 | 12.21 | 1.644 | 90 | N |
| Unidentified Compound | 075331-64-5 | 16.19 | 1.505 | - | N |
| Unidentified Compound | 999198-59-2 | 14.19 | 1.280 | - | N |
| Unidentified Compound | 339353-01-4 | 15.40 | 1.213 | - | N |
| Unidentified Compound | 001844-09-3 | 9.79 | 1.196 | - | N |
| 5,8-Dimethoxy-2-(1-pyrrolidinyl)-4-phenylquinoline | 999542-16-3 | 12.86 | 1.142 | 59 | N |
| Unidentified Compound | 076164-13-1 | 13.19 | 1.119 | - | N |
| 6-Phenyl-2,4-bis((trimethylsilyl)oxy)-1-hexene | 127841-25-2 | 14.10 | 1.035 | 59 | N |
| 3-(2,5-Dimethyl-1H-pyrrole-3-yl)-1,3-dihydro-indol-2-one | 999253-23-9 | 10.82 | 0.990 | 93 | N |
| 3,4-DIHYDRO-5,7-DIMETHOXY-4-METHYLCOUMARIN | 062995-14-6 | 13.58 | 0.970 | 64 | N |
| Unidentified Compound | 000000-00-0 | 13.10 | 0.896 | - | N |
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The compounds listed above have been tentatively identified by a computer based library search.
Compounds identified in the sample are not reported if they also occur in the method blank.
The % fit is an indication of the reliability of the compound assignment.
Due to the similarity between mass spectra of some isomeric compounds assignments may not be correct.
Other compounds may also be present but identification was not possible.
Concentrations are semi-quantitative, assume a response factor of 1 and use the nearest internal standard.
Concentrations are reported on a dry weight basis.



Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105°C where appropriate, in accordance with the MCERTS standard.

# SVOC (TICs)

**Accredited?:No**

| | | | |
|---|---|---|---|
| **Customer and Site Details:** | RPS: Project Chop | | |
| **Sample Details:** | WS04 0.40 | **Job Number:** | S18_3017 |
| **LIMS ID Number:** | CL1893503 | | |
| | | **Multiplier:** | 0.2 |
| **Date Booked in:** | 09-Feb-18 | **Dilution Factor:** | 1 |
| **Date Extracted:** | 09-Feb-18 | **GPC (Y/N):** | N |
| **Date Analysed:** | 15-Feb-18 | **Matrix:** | Soil |
| **QC Batch Number:** | 180029 | **Method:** | Ultrasonic |
| **Directory/Quant File:** | 021418_MS16\ 0 | **Operator:** | RP/AK |

| Tentatively Identified Compounds | CAS # | R.T. | Concentration mg/kg | % Fit | Accr. code |
|---|---|---|---|---|---|
| 29-Nor-(17.alpha.H,21.beta.H)-hopane | 999658-19-2 | 12.22 | 12.804 | 64 | N |
| .beta.-iso-methyl ionone | 000000-00-0 | 12.72 | 10.101 | 76 | N |
| 2-METHYLAMINO-3-METHYL-BENZALDEHYDE | 999064-28-5 | 6.76 | 8.242 | 64 | N |
| Dodecane, 2,6,10-trimethyl | 003891-98-3 | 5.91 | 6.416 | 87 | N |
| Octadecane | 000593-45-3 | 6.45 | 5.640 | 95 | N |
| 2-Propen-1-one, 1,3-diphenyl | 000094-41-7 | 6.56 | 5.481 | 64 | N |
| Cyclohexanone | 000108-94-1 | 2.68 | 5.027 | 94 | N |
| Baccharane | 036441-74-4 | 12.54 | 4.620 | 64 | N |
| Unidentified Compound | 999694-06-7 | 11.56 | 4.381 | - | N |
| (2,4,4,4,16,16-D6)-3.ALPHA.,17.BETA.-DIHYDROXY-5.BET/ | 999437-39-3 | 8.83 | 3.001 | 90 | N |
| Stigmastane | 000601-58-1 | 11.74 | 2.967 | 50 | N |
| 6,7-Dimethoxy-3,4-dihydroisoquinoline - N-Oxide | 999198-87-7 | 12.16 | 2.924 | 83 | N |
| N-[(3,4-Dimethoxyphenyl)]2-(1-ethyl-2-oxopropyl)-4,5-dimetho | 090140-55-9 | 12.44 | 2.422 | 58 | N |
| 3Z-3'S-gamma.-IRONE | 999197-61-7 | 8.95 | 2.410 | 52 | N |
| 19,28-Epoxy-18-.alpha.-oleanane | 999692-85-8 | 13.25 | 2.318 | 52 | N |
| Unidentified Compound | 134256-18-1 | 6.64 | 2.259 | - | N |
| Unidentified Compound | 999161-10-0 | 6.25 | 2.035 | - | N |
| Unidentified Compound | 000000-00-0 | 13.76 | 1.720 | - | N |
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The compounds listed above have been tentatively identified by a computer based library search.
Compounds identified in the sample are not reported if they also occur in the method blank.
The % fit is an indication of the reliability of the compound assignment.
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Concentrations are reported on a dry weight basis.



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Results corrected to dry weight at 105°C where appropriate, in accordance with the MCERTS standard.

# SVOC (TICs)

**Accredited?:No**

| | | | |
|---|---|---|---|
| **Customer and Site Details:** | RPS: Project Chop | | |
| **Sample Details:** | WS06 0.40 | **Job Number:** | S18_3017 |
| **LIMS ID Number:** | CL1893508 | | |
| | | **Multiplier:** | 0.2 |
| **Date Booked in:** | 09-Feb-18 | **Dilution Factor:** | 1 |
| **Date Extracted:** | 09-Feb-18 | **GPC (Y/N):** | N |
| **Date Analysed:** | 15-Feb-18 | **Matrix:** | Soil |
| **QC Batch Number:** | 180029 | **Method:** | Ultrasonic |
| **Directory/Quant File:** | 021418_MS16\ 0 | **Operator:** | RP/AK |

| Tentatively Identified Compounds | CAS # | R.T. | Concentration mg/kg | % Fit | Accr. code |
|---|---|---|---|---|---|
| 2,2'-Bis(tricyclo[7.4.1.1(3,8)]trideca-3,5,7,9,11,13-hexaen)ylid | 999637-30-1 | 12.19 | 1.254 | 90 | N |
| Nonadecane, 1-chloro | 062016-76-6 | 8.83 | 0.770 | 95 | N |
| 22,29,30-trinor-28(18--17S)abeo-13.alpha.,18.alpha.-hopane | 096148-65-1 | 11.27 | 0.601 | 72 | N |
| 2-Pentanone, 4-hydroxy-4-methyl | 000123-42-2 | 2.41 | 0.590 | 64 | N |
| Benzo[e]pyrene | 000192-97-2 | 10.78 | 0.583 | 98 | N |
| Docosane | 000629-97-0 | 7.83 | 0.548 | 90 | N |
| Undentified Compound | - | 5.89 | 0.412 | - | N |
| 1-(4-Methoxyphenyl)-2-methyl-6-methoxybenzimidazole | 999370-76-7 | 10.65 | 0.400 | 50 | N |
| Benzo[a]pyrene | 000050-32-8 | 10.45 | 0.383 | 95 | N |
| hopane | 000471-62-5 | 12.69 | 0.349 | 59 | N |
| Benzene, 1,2-dimethyl | 000095-47-6 | 2.67 | 0.326 | 94 | N |
| 2-Ethyl-1-hexyl propionate | 999145-46-2 | 2.85 | 0.319 | 53 | N |
| 4H-Cyclopenta[def]phenanthrene | 000203-64-5 | 6.40 | 0.316 | 90 | N |
| Undentified Compound | - | 11.10 | 0.314 | - | N |
| 7.beta.-Methyl-3.alpha.,5-cyclo-5.alpha.-cholestan-6.beta.-ol | 999661-13-1 | 11.21 | 0.299 | 78 | N |
| Phenanthrene, 2,5-dimethyl | 003674-66-6 | 6.73 | 0.283 | 95 | N |
| Hexadecane, 2,6,10,14-tetramethyl | 000638-36-8 | 5.62 | 0.280 | 91 | N |
| Octadecane | 000593-45-3 | 9.40 | 0.249 | 93 | N |
| Naphthalene, 2,7-dimethyl | 000582-16-1 | 4.80 | 0.244 | 97 | N |
| Benzene, 1,2,3-trimethyl | 000526-73-8 | 3.12 | 0.234 | 97 | N |
| | | | | | |
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| | | | | | |

The compounds listed above have been tentatively identified by a computer based library search.
Compounds identified in the sample are not reported if they also occur in the method blank.
The % fit is an indication of the reliability of the compound assignment.
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Concentrations are reported on a dry weight basis.



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Results corrected to dry weight at 105°C where appropriate, in accordance with the MCERTS standard.

# SVOC (TICs)

**Accredited?:No**

| | | | |
|---|---|---|---|
| **Customer and Site Details:** | RPS: Project Chop | | |
| **Sample Details:** | WS08 0.50 | **Job Number:** | s18_3017 |
| **LIMS ID Number:** | CL1893512 | | |
| | | **Multiplier:** | 0.2 |
| **Date Booked in:** | 09-Feb-18 | **Dilution Factor:** | 1 |
| **Date Extracted:** | 09-Feb-18 | **GPC (Y/N):** | N |
| **Date Analysed:** | 15-Feb-18 | **Matrix:** | Soil |
| **QC Batch Number:** | 180029 | **Method:** | Ultrasonic |
| **Directory/Quant File:** | 021418_MS16\ 0 | **Operator:** | RP/AK |

| Tentatively Identified Compounds | CAS # | R.T. | Concentration mg/kg | % Fit | Accr. code |
|---|---|---|---|---|---|
| Hexadecane, 2,6,10,14-tetramethyl | 000638-36-8 | 5.92 | 7.017 | 99 | N |
| Pentadecane, 2,6,10,14-tetramethyl | 001921-70-6 | 5.63 | 3.547 | 91 | N |
| 28-Nor-17.beta.(H)-hopane | 036728-72-0 | 12.23 | 3.361 | 62 | N |
| Heptacosane | 000593-49-7 | 12.06 | 2.485 | 78 | N |
| (Methylmercury)-azide | 999343-81-4 | 10.70 | 2.202 | 91 | N |
| Cholestane, (5.alpha.,14.beta.)- | 040071-70-3 | 10.52 | 2.060 | 83 | N |
| Tridecane, 7-methyl | 026730-14-3 | 4.22 | 1.951 | 78 | N |
| 1,1':3',1''-Terphenyl, 5'-phenyl | 000612-71-5 | 11.26 | 1.832 | 99 | N |
| .beta.-iso-Methyl ionone | 999197-33-5 | 12.73 | 1.770 | 81 | N |
| Unidentified Compound | 000630-01-3 | 10.16 | 1.756 | - | N |
| Unidentified Compound | 999197-49-0 | 13.25 | 1.684 | - | N |
| Unidentified Compound | 014103-61-8 | 9.16 | 1.615 | - | N |
| PYRROLO(3,2,1-JK)CARBAZOLE | 000208-71-9 | 11.32 | 1.519 | 78 | N |
| 5.alpha.,8.alpha.,9.beta.,14.beta.-Cholestane | 069483-40-5 | 9.41 | 1.508 | 81 | N |
| 5-alpha,14-beta,17-beta-cholestane | 069483-47-2 | 10.45 | 1.473 | 60 | N |
| Pentacosane | 000629-99-2 | 13.52 | 1.470 | 87 | N |
| n-Pentacos-3-ene | 999576-23-5 | 14.43 | 1.401 | 95 | N |
| n-Pentacos-3-ene | 999576-23-5 | 8.29 | 1.325 | 93 | N |
| Docosane | 000629-97-0 | 12.56 | 1.312 | 94 | N |
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The compounds listed above have been tentatively identified by a computer based library search.
Compounds identified in the sample are not reported if they also occur in the method blank.
The % fit is an indication of the reliability of the compound assignment.
Due to the similarity between mass spectra of some isomeric compounds assignments may not be correct.
Other compounds may also be present but identification was not possible.
Concentrations are semi-quantitative, assume a response factor of 1 and use the nearest internal standard.
Concentrations are reported on a dry weight basis.



Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105°C where appropriate, in accordance with the MCERTS standard.

# SVOC (TICs)

**Accredited?:No**

| | | | |
|---|---|---|---|
| **Customer and Site Details:** | RPS: Project Chop | | |
| **Sample Details:** | WS08 1.50 | **Job Number:** | S18_3017 |
| **LIMS ID Number:** | CL1893514 | | |
| | | **Multiplier:** | 0.2 |
| **Date Booked in:** | 09-Feb-18 | **Dilution Factor:** | 1 |
| **Date Extracted:** | 09-Feb-18 | **GPC (Y/N):** | N |
| **Date Analysed:** | 15-Feb-18 | **Matrix:** | Soil |
| **QC Batch Number:** | 180029 | **Method:** | Ultrasonic |
| **Directory/Quant File:** | 021418_MS16\ 0 | **Operator:** | RP/AK |

| Tentatively Identified Compounds | CAS # | R.T. | Concentration mg/kg | % Fit | Accr. code |
|---|---|---|---|---|---|
| Sulfur, mol. | 010544-50-0 | 6.67 | 4.343 | 64 | N |
| 22-Oxo-octacosan-1-yl acetate | - | 12.48 | 2.618 | - | N |
| 14-.BETA.-H-PREGNA | 999427-17-9 | 10.04 | 2.320 | 87 | N |
| Unidentified Compound | - | 13.22 | 1.815 | - | N |
| 2-Methyl-5H-dibenz[b,f]azepine | 999199-74-1 | 15.07 | 1.713 | 64 | N |
| Unidentified Compound | - | 13.27 | 1.628 | - | N |
| Unidentified Compound | - | 13.36 | 1.570 | - | N |
| 4-[(1Z)-(N-Hydroxyethanimidoyl)-2-methylpyridazin-3(2H)-one | 999100-55-4 | 12.73 | 1.431 | 74 | N |
| 3,4-DIHYDRO-5,7-DIMETHOXY-4-METHYLCOUMARIN | 062995-14-6 | 13.14 | 1.312 | 64 | N |
| Unidentified Compound | - | 14.00 | 1.221 | - | N |
| Unidentified Compound | - | 13.54 | 1.141 | - | N |
| 4-[(1Z)-(N-Hydroxyethanimidoyl)-2-methylpyridazin-3(2H)-one | 999100-55-4 | 9.80 | 0.800 | 64 | N |
| Sulfur | 013798-23-7 | 5.32 | 0.793 | 96 | N |
| Unidentified Compound | - | 13.48 | 0.724 | - | N |
| Pyridine-3-carboxamide, oxime, N-(2-trifluoromethylphenyl)- | 288246-53-7 | 12.89 | 0.700 | 91 | N |
| 1,3-dimethyl-4-azaphenanthrene | 999199-69-8 | 15.75 | 0.664 | 76 | N |
| Unidentified Compound | - | 6.48 | 0.660 | - | N |
| 1-octadecanol | 000000-00-0 | 10.33 | 0.627 | 78 | N |
| HAHNFETT | 999796-14-0 | 12.42 | 0.589 | 62 | N |
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The compounds listed above have been tentatively identified by a computer based library search.
Compounds identified in the sample are not reported if they also occur in the method blank.
The % fit is an indication of the reliability of the compound assignment.
Due to the similarity between mass spectra of some isomeric compounds assignments may not be correct.
Other compounds may also be present but identification was not possible.
Concentrations are semi-quantitative, assume a response factor of 1 and use the nearest internal standard.
Concentrations are reported on a dry weight basis.



Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105°C where appropriate, in accordance with the MCERTS standard.

# SVOC (TICs)

**Accredited?:No**

| | | | |
|---|---|---|---|
| **Customer and Site Details:** | RPS: Project Chop | | |
| **Sample Details:** | WS09 0.40 | **Job Number:** | S18_3017 |
| **LIMS ID Number:** | CL1893515 | | |
| | | **Multiplier:** | 1 |
| **Date Booked in:** | 09-Feb-18 | **Dilution Factor:** | 5 |
| **Date Extracted:** | 09-Feb-18 | **GPC (Y/N):** | N |
| **Date Analysed:** | 15-Feb-18 | **Matrix:** | Soil |
| **QC Batch Number:** | 180029 | **Method:** | Ultrasonic |
| **Directory/Quant File:** | 021418_MS16\ 0 | **Operator:** | RP/AK |

| Tentatively Identified Compounds | CAS # | R.T. | Concentration mg/kg | % Fit | Accr. code |
|---|---|---|---|---|---|
| 19-Norabietatriene | 019407-18-2 | 6.64 | 20.835 | 90 | N |
| 2-Dodecen-1-yl(-)succinic anhydride | 019780-11-1 | 6.56 | 20.705 | 91 | N |
| Unidentified Compound | - | 15.17 | 16.056 | - | N |
| 9,10-Dimethylanthracene | 000781-43-1 | 6.74 | 14.889 | 78 | N |
| Unidentified Compound | - | 11.61 | 10.182 | - | N |
| (1.alpha.,4.alpha.,4a.alpha.)-1,4,4a,9-Tetrahydro-1,4-epoxyph | 999171-48-0 | 6.23 | 9.188 | 55 | N |
| 2-Propanol, 1-chloro-, phosphate | 013674-84-5 | 5.90 | 8.670 | 76 | N |
| 2-Dicyanomethylene-2,5-dihydroselenophene | 999168-09-2 | 5.83 | 7.764 | 50 | N |
| 1,2-Benzenedicarboxylic acid, diisooctyl ester $$ Diisooctyl pl | 027554-26-3 | 9.14 | 7.233 | 68 | N |
| 28-Nor-17.alpha.(H)-hopane | 053584-60-4 | 12.19 | 6.688 | 81 | N |
| 1H-Indene, 1-(2,3-dihydro-1H-inden-1-ylidene)-2,3-dihydro- (( | 017666-94-3 | 7.49 | 6.631 | 50 | N |
| Pentadecane, 2,6,10,14-tetramethyl | 001921-70-6 | 5.62 | 6.104 | 87 | N |
| Unidentified Compound | - | 6.47 | 5.687 | - | N |
| 2,2-Dimethyl-6-(prop-2-enyl)benzofuran-4,7(2H,3H)-dione | 087386-32-1 | 7.26 | 5.671 | 70 | N |
| Unidentified Compound | - | 7.00 | 5.563 | - | N |
| 2,4,5,5,8a-Pentamethyl-6,7,8,8a-tetrahydro-5H-chromene | 999197-48-1 | 11.27 | 5.540 | 64 | N |
| 8.alpha.-(1'-Pentynyl)-3a,7a-diazatricyclo[7.7.3.3.0(3a,9a).0(4 | 999269-74-1 | 11.32 | 5.117 | 83 | N |
| Unidentified Compound | - | 15.63 | 4.893 | - | N |
| 14-.BETA.-H-PREGNA $$ 14-.BETA.-PREGNA $$ 14B-PRE | 999427-18-1 | 11.79 | 4.787 | 91 | N |
| .beta.-iso-Methyl ionone | 999197-33-5 | 12.70 | 4.763 | 81 | N |
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The compounds listed above have been tentatively identified by a computer based library search.
Compounds identified in the sample are not reported if they also occur in the method blank.
The % fit is an indication of the reliability of the compound assignment.
Due to the similarity between mass spectra of some isomeric compounds assignments may not be correct.
Other compounds may also be present but identification was not possible.
Concentrations are semi-quantitative, assume a response factor of 1 and use the nearest internal standard.
Concentrations are reported on a dry weight basis.



Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105°C where appropriate, in accordance with the MCERTS standard.

# ALIPHATIC / AROMATIC FRACTION BY GC/FID

**Customer and Site Details:** RPS : Project Chop
**Job Number:** S18_3017M
**QC Batch Number:** 180164
**Directory:** D:\TES\DATA\2018\021518\021518 2018-02-15 13-05-33\B-042-85-CL1893513ARO.D
**Method:** Ultra Sonic

**Separation:** Silica gel
**Eluents:** Hexane, DCM

**Matrix:** Soil
**Date Booked in** 09-Feb-18
**Date Extracted** 14-Feb-18
**Date Analysed** 15-Feb-18, 21:22:17

This sample data is not MCERTS accredited.
*** This sample data is not ISO17025 accredited.**

| | | Concentration, (mg/kg) - as dry weight. | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | >C8 - C10 | | >C10 - C12 | | >C12 - C16 | | >C16 - C21 | | >C21 - C35 | | >C8 - C40 | |
| **Sample ID** | **Client ID** | **Aliphatics** | **Aromatics** | **Aliphatics** | **Aromatics** | **Aliphatics** | **Aromatics** | **Aliphatics** | **Aromatics** | **Aliphatics** | **Aromatics** | **Aliphatics** | **Aromatics** |
| CL1893498 | WS01 0.70 | <4.55 | <5 | <4.55 | <5 | 8.9 | 9.91 | 24.2 | 20.6 | 81.9 | 70.9 | 125 | 110.2 |
| CL1893499 | WS01 1.60 | <5.76 | <6 | <5.76 | <6 | <5.76 | <6 | <5.76 | <6 | <12.6 | 15.9 | <28.8 | <29 |
| CL1893504 | WS04 1.10 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <10.79 | <10.79 | <25 | <25 |
| CL1893506 | WS05 1.00 | <5 | <5 | <5 | <5 | 6.8 | 11 | 14 | 19.5 | 82 | 81.4 | 114.2 | 119 |
| CL1893507 | WS05 1.50 | <4 | <4 | <4 | <4 | <4 | <4 | <4 | <4 | <9.85 | <9.85 | <22 | <22 |
| CL1893509 | WS06 0.90 | <4.84 | <5 | <4.84 | <5 | <4.84 | 12.6 | 10.16 | 21.3 | 88 | 90.2 | 106.2 | 132 |
| CL1893511 | WS07 1.20 | <5.08 | <5 | <5.08 | <5 | <5.08 | <5 | <5.08 | <5 | <11.1 | <11.07 | <25.4 | <25 |
| CL1893513 | WS08 1.10 | <4.80 | 5.45 | <4.80 | <5 | 5.56 | 10.11 | 39.1 | 29 | 303 | 149 | 365 | 198 |
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Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105°C where appropriate, in accordance with the MCERTS standard.

# ALIPHATIC / AROMATIC FRACTION BY GC/FID

**Customer and Site Details:** RPS : Project Chop
**Job Number:** S18_3017M
**QC Batch Number:** 180166
**Directory:** D:\TES\DATA\Y2018\021418TPH_GC17\021418A 2018-02-14 15-49-02\B-038-89-CL1893515ARO.D
**Method:** Ultra Sonic

**Separation:** Silica gel
**Eluents:** Hexane, DCM

**Matrix:** Soil
**Date Booked in** 09-Feb-18
**Date Extracted** 14-Feb-18
**Date Analysed** 14-Feb-18, 23:00:12

This sample data is not MCERTS accredited.
*** This sample data is not ISO17025 accredited.**

| | | Concentration, (mg/kg) - as dry weight. | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | >C8 - C10 | | >C10 - C12 | | >C12 - C16 | | >C16 - C21 | | >C21 - C35 | | >C8 - C40 | |
| **Sample ID** | **Client ID** | **Aliphatics** | **Aromatics** | **Aliphatics** | **Aromatics** | **Aliphatics** | **Aromatics** | **Aliphatics** | **Aromatics** | **Aliphatics** | **Aromatics** | **Aliphatics** | **Aromatics** |
| CL1893500 | WS03 0.50 | <4.75 | <5 | <4.75 | <5 | 39 | 8.07 | 391 | 119 | 7950 | 2530 | 8850 | 2710 |
| CL1893501 | WS03 0.90 | <5 | <5 | <5 | <5 | <5 | <5 | 19.5 | 12.5 | 376 | 135 | 423 | 154 |
| CL1893502 | WS03 1.50 | <6 | <6 | <6 | <6 | <6 | 7.51 | <6 | 25.1 | 27 | 81.8 | 38.1 | 116.2 |
| CL1893503 | WS04 0.40 | <4.79 | <5 | <4.79 | <5 | 63.3 | 11 | 297 | 126 | 1970 | 828 | 2630 | 981 |
| CL1893505 | WS05 0.30 | <5.00 | <5 | <5.00 | <5 | 6.72 | 8.06 | 37.9 | 20 | 229 | 91 | 301 | 124 |
| CL1893508 | WS06 0.40 | <5 | <5 | <5 | <5 | <5 | 8.32 | 30 | 27.9 | 290 | 198 | 359 | 239 |
| CL1893510 | WS07 0.50 | <5 | <5 | <5 | <5 | 10.49 | 10.01 | 18.2 | 20.2 | 109 | 84.9 | 152 | 119 |
| CL1893512 | WS08 0.50 | 7 | <5 | 133 | 30.3 | 567 | 214 | 635 | 304 | 2590 | 900 | 4150 | 1450 |
| CL1893514 | WS08 1.50 | <5.11 | <5 | <5.11 | <5 | <5.11 | <5 | <5.11 | <5 | <11 | <10.86 | <25.5 | <25 |
| CL1893515 | WS09 0.40 | <5.39 | <5 | <5.39 | <5 | 49.2 | 16.8 | 308 | 135 | 1680 | 573 | 2290 | 736 |
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Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105°C where appropriate, in accordance with the MCERTS standard.

# WASTE ACCEPTANCE CRITERIA TESTING
# BSEN 12457/3

| | | | | | Leaching Data | |
|---|---|---|---|---|---|---|
| **Client** | RPS | | | | Weight of sample (kg) | 0.259 |
| **Contact** | Adam Parker | | | | Moisture content @ 105°C (% of Wet Weight) | 15.0 |
| | | | | | Equivalent Weight based on drying at 105°C (kg) | 0.225 |
| **Site** | Project Chop | | | | Volume of water required to carry out 2:1 stage (litres) | 0.416 |
| | | | | | Fraction of sample above 4 mm % | 67.100 |
| **Sample Description** | | **Report No** | **Sample No** | **Issue Date** | Fraction of non-crushable material % | 0.000 |
| WS03 0.50 | | s18_3017M | CL/1893500 | 26-Feb-18 | Volume to undertake analysis (2:1 Stage) (litres) | 0.300 |
| | | | | | Weight of Deionised water to carry out 8:1 stage (kg) | 1.650 |

**Note: The >4mm fraction is crushed using a disc mill**

| Accreditation | Method Code | Solid Waste Analysis (Dry Basis) | Concentration in Solid (Dry Weight Basis) | Landfill Waste Acceptance Criteria Limit Values | | |
|---|---|---|---|---|---|---|
| | | | | Inert Waste Landfill | Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill | Hazardous Waste Landfill |
| U | WSLM59 | Total Organic Carbon (% M/M) | 2.71 | 3 | 5 | 6 |
| N | LOI450 | Loss on Ignition (%) | 4.6 | | | 10 |
| U | BTEXHSA | Sum of BTEX (mg/kg) | <0.07 | 6 | | |
| U | PCBUSECD | Sum of 7 Congener PCB's (mg/kg) | <0.07023 | 1 | | |
| U | TPHFIDUS | Mineral Oil (mg/kg) | 8320 | 500 | | |
| N | PAHMSUS | PAH Sum of 17 (mg/kg) | <1.8 | 100 | | |
| U | PHSOIL | pH (pH units) | 7.3 | | >6 | |
| N | ANC | Acid Neutralisation Capacity (mol/kg) @pH 7 | 0.32 | | To be evaluated | To be evaluated |

| Accreditation | Method Code | Leachate Analysis | 2:1 Leachate | 8:1 Leachate | Calculated amount leached @ 2:1 | Calculated cumulative amount leached @ 10:1 | Landfill Waste Acceptance Criteria Limit Values for BSEN 12457/3 @ L/S 10 litre kg-1 mg/kg (dry weight) | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | mg/l except oo | | mg/kg (dry weight) | | | | |
| U | WSLM3 | pH (pH units) oo | 8.5 | 8.2 | Calculated data not UKAS Accredited | | | | |
| U | WSLM2 | Conductivity (µs/cm) oo | 1090 | 322 | | | | | |
| U | ICPMSW | Arsenic | 0.002 | 0.001 | 0.004 | 0.01 | 0.5 | 2 | 25 |
| U | ICPWATVAR | Barium | 0.04 | 0.06 | 0.08 | 0.6 | 20 | 100 | 300 |
| U | ICPMSW | Cadmium | 0.0001 | <0.0001 | 0.0002 | <0.001 | 0.04 | 1 | 5 |
| U | ICPMSW | Chromium | <0.001 | <0.001 | <0.002 | <0.01 | 0.5 | 10 | 70 |
| U | ICPMSW | Copper | <0.001 | <0.001 | <0.002 | <0.01 | 2 | 50 | 100 |
| U | ICPMSW | Mercury | <0.0001 | <0.0001 | <0.0002 | <0.001 | 0.01 | 0.2 | 2 |
| U | ICPMSW | Molybdenum | 0.07 | 0.019 | 0.14 | 0.26 | 0.5 | 10 | 30 |
| U | ICPMSW | Nickel | 0.005 | 0.001 | 0.01 | 0.02 | 0.4 | 10 | 40 |
| U | ICPMSW | Lead | <0.001 | <0.001 | <0.002 | <0.01 | 0.5 | 10 | 50 |
| U | ICPMSW | Antimony | 0.027 | 0.017 | 0.054 | 0.18 | 0.06 | 0.7 | 5 |
| U | ICPMSW | Selenium | 0.002 | <0.001 | 0.004 | <0.01 | 0.1 | 0.5 | 7 |
| U | ICPMSW | Zinc | 0.013 | 0.004 | 0.026 | 0.05 | 4 | 50 | 200 |
| U | KONENS | Chloride | 12 | 2 | 24 | 33 | 800 | 15000 | 25000 |
| U | ISEF | Fluoride | 0.6 | 0.6 | 1.2 | 6 | 10 | 150 | 500 |
| U | ICPWATVAR | Sulphate as SO4 | 444 | 61 | 888 | 1121 | 1000 | 20000 | 50000 |
| N | WSLM27 | Total Dissolved Solids | 851 | 251 | 1702 | 3310 | 4000 | 60000 | 100000 |
| U | SFAPI | Phenol Index | <0.05 | <0.05 | <0.1 | <0.5 | 1 | | |
| N | WSLM13 | Dissolved Organic Carbon | 10 | 3.4 | 20 | 43 | 500 | 800 | 1000 |

Template Ver. 1

Landfill Waste Acceptance Criteria limit values correct as of 11th March 2009.

Tests where the accreditation is set to U are UKAS accredited, those where the accreditation is set to N are not UKAS accredited



Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105°C where appropriate, in accordance with the MCERTS standard.

# WASTE ACCEPTANCE CRITERIA TESTING
# BSEN 12457/3

| | | | | | | |
|---|---|---|---|---|---|---|
| **Client** | RPS | | | | **Leaching Data** | |
| | | | | | Weight of sample (kg) | 0.274 |
| **Contact** | Adam Parker | | | | Moisture content @ 105°C (% of Wet Weight) | 24.3 |
| | | | | | Equivalent Weight based on drying at 105°C (kg) | 0.225 |
| **Site** | Project Chop | | | | Volume of water required to carry out 2:1 stage (litres) | 0.401 |
| | | | | | Fraction of sample above 4 mm % | 12.600 |
| **Sample Description** | | **Report No** | **Sample No** | **Issue Date** | Fraction of non-crushable material % | 0.000 |
| WS08 0.50 | | s18_3017M | CL/1893512 | 26-Feb-18 | Volume to undertake analysis (2:1 Stage) (litres) | 0.300 |
| | | | | | Weight of Deionised water to carry out 8:1 stage (kg) | 1.650 |

**Note: The >4mm fraction is crushed using a disc mill**

| Accreditation | Method Code | Solid Waste Analysis (Dry Basis) | Concentration in Solid (Dry Weight Basis) | Landfill Waste Acceptance Criteria Limit Values | | |
|---|---|---|---|---|---|---|
| | | | | Inert Waste Landfill | Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill | Hazardous Waste Landfill |
| U | WSLM59 | Total Organic Carbon (% M/M) | 13.1 | 3 | 5 | 6 |
| N | LOI450 | Loss on Ignition (%) | 13.9 | | | 10 |
| U | BTEXHSA | Sum of BTEX (mg/kg) | <0.07 | 6 | | |
| U | PCBUSECD | Sum of 7 Congener PCB's (mg/kg) | <0.0579 | 1 | | |
| U | TPHFIDUS | Mineral Oil (mg/kg) | 7150 | 500 | | |
| N | PAHMSUS | PAH Sum of 17 (mg/kg) | 20.11 | 100 | | |
| U | PHSOIL | pH (pH units) | 8.2 | | >6 | |
| N | ANC | Acid Neutralisation Capacity (mol/kg) @pH 7 | 0.73 | | To be evaluated | To be evaluated |

| Accreditation | Method Code | Leachate Analysis | 2:1 Leachate | 8:1 Leachate | Calculated amount leached @ 2:1 | Calculated cumulative amount leached @ 10:1 | Landfill Waste Acceptance Criteria Limit Values for BSEN 12457/3 @ L/S 10 litre kg-1 mg/kg (dry weight) | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | mg/l except oo | | mg/kg (dry weight) | | | | |
| U | WSLM3 | pH (pH units) oo | 8.4 | 8.2 | Calculated data not UKAS Accredited | | | | |
| U | WSLM2 | Conductivity (µs/cm) oo | 728 | 318 | | | | | |
| U | ICPMSW | Arsenic | 0.004 | 0.002 | 0.008 | 0.02 | 0.5 | 2 | 25 |
| U | ICPWATVAR | Barium | 0.13 | 0.18 | 0.26 | 1.7 | 20 | 100 | 300 |
| U | ICPMSW | Cadmium | 0.0004 | 0.0002 | 0.0008 | 0.002 | 0.04 | 1 | 5 |
| U | ICPMSW | Chromium | <0.001 | <0.001 | <0.002 | <0.01 | 0.5 | 10 | 70 |
| U | ICPMSW | Copper | 0.03 | 0.013 | 0.06 | 0.15 | 2 | 50 | 100 |
| U | ICPMSW | Mercury | <0.0001 | <0.0001 | <0.0002 | <0.001 | 0.01 | 0.2 | 2 |
| U | ICPMSW | Molybdenum | 0.121 | 0.031 | 0.242 | 0.43 | 0.5 | 10 | 30 |
| U | ICPMSW | Nickel | 0.003 | <0.001 | 0.006 | <0.01 | 0.4 | 10 | 40 |
| U | ICPMSW | Lead | 0.004 | 0.002 | 0.008 | 0.02 | 0.5 | 10 | 50 |
| U | ICPMSW | Antimony | 0.557 | 0.376 | 1.114 | 4 | 0.06 | 0.7 | 5 |
| U | ICPMSW | Selenium | 0.007 | 0.003 | 0.014 | 0.04 | 0.1 | 0.5 | 7 |
| U | ICPMSW | Zinc | 0.011 | 0.006 | 0.022 | 0.07 | 4 | 50 | 200 |
| U | KONENS | Chloride | 36 | 8 | 72 | 117 | 800 | 15000 | 25000 |
| U | ISEF | Fluoride | 1.1 | 1 | 2.2 | 10 | 10 | 150 | 500 |
| U | ICPWATVAR | Sulphate as SO4 | 147 | 40 | 294 | 543 | 1000 | 20000 | 50000 |
| N | WSLM27 | Total Dissolved Solids | 568 | 248 | 1136 | 2907 | 4000 | 60000 | 100000 |
| U | SFAPI | Phenol Index | <0.05 | <0.05 | <0.1 | <0.5 | 1 | | |
| N | WSLM13 | Dissolved Organic Carbon | 26 | 6.3 | 52 | 89 | 500 | 800 | 1000 |

Template Ver. 1

Landfill Waste Acceptance Criteria limit values correct as of 11th March 2009.

Tests where the accreditation is set to U are UKAS accredited, those where the accreditation is set to N are not UKAS accredited



Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105°C where appropriate, in accordance with the MCERTS standard.

# ASBESTOS ANALYSIS RESULTS

**SOCOTEC Asbestos Limited Certificate of Analysis for Asbestos in Soils, Sediments and Aggregates**

UKAS TESTING
1089

**Detection limit of Method SCI-ASB-020 is 0.001%**

**Sampling has been carried out by a third party**

SOCOTEC

| | | | |
|---|---|---|---|
| **Client:** | SOCOTEC Environmental Chemistry | **Page 1 of 1** | |
| **Address:** | Etwall House, Bretby Business Park, Ashby Road, Burton upon Trent | **Report No:** | **ANO-0503-17526** |
| **For the attention of:** | RPS | **Report Date:** | **16/02/2018** |
| **Site Address:** | Project Chop | **Project Number:** | **S183017** |

| Sample Number | Sample Date | Sample Location & Matrix | Test Date | Total Sample Dry Weight (g) | Weight of <10mm Fraction (g) | Asbestos(g) in >10mm | Asbestos(g) in < 10mm | % Asbestos by weight of Total Dried Sample | Moisture Content | Asbestos Fibre Types Identified |
|---|---|---|---|---|---|---|---|---|---|---|
| CL/1893498 | 07/02/18 | WS01 0.70 Soils | 16/02/2018 | 788.4 | 788.4 | | | Identification | | NAIIS |
| CL/1893500 | 07/02/18 | WS03 0.50 Soils | 16/02/2018 | 920.2 | 920.2 | | | Identification | | NAIIS |
| CL/1893503 | 07/02/18 | WS04 0.40 Soils | 16/02/2018 | 1073.5 | 1073.5 | | | Identification | | Chrysotile |
| CL/1893505 | 06/02/18 | WS05 0.30 Soils | 16/02/2018 | 750.3 | 750.3 | | | Identification | | Chrysotile |
| CL/1893508 | 06/02/18 | WS06 0.40 Soils | 16/02/2018 | 366.3 | 366.3 | | | Identification | | Chrysotile |
| CL/1893510 | 06/02/18 | WS07 0.50 Soils | 16/02/2018 | 656.3 | 656.3 | | | Identification | | NAIIS |
| CL/1893512 | 06/02/18 | WS08 0.50 Soils | 16/02/2018 | 903.4 | 903.4 | | | Identification | | NAIIS |
| CL/1893513 | 06/02/18 | WS08 1.10 Soils | 16/02/2018 | 900.5 | 900.5 | | | Identification | | NAIIS |
| CL/1893515 | 07/02/18 | WS09 0.40 Soils | 16/02/2018 | 929.7 | 929.7 | | | Identification | | Amosite |

**Keys**

**NAACR = Not Analysed at Clients Request**

**NAIIS = No Asbestos Identified in Sample (Identification Only)**

*** visible to naked eye**

**NADIS = No Asbestos Detected in Sample (ID & Quant Only)**

| | | |
|---|---|---|
| Name: | Rachel Howell | Authorised Signatory: |
| Position: | Lab Technician | |

The sample analysis for the above results was carried out using the procedures detailed in SOCOTEC Asbestos Limited in house method (SCI-ASB-020) based on EA document Quantification of asbestos in soil and associated materials - Draft 2017. Fibre identification was carried out using SOCOTEC Asbestos Limited in house method of transmitted/polarised light microscopy and centre stop dispersion staining (SCI-ASB-007), based on HSE's HSG 248. The analysis of the < 10mm fraction for asbestos content only includes ACMs and fibres and does not discriminate non-asbestos fibres. All fibres are assumed, unless specified, to be amphiboles. All tests were carried out at SOCOTEC Asbestos Laboratory, Ashbourne House, Bretby Business Park, Ashby Road, Burton-upon-Trent, Staffordshire. DE15 0YZ, UKAS Laboratory Number 1089.



Where individual results are flagged see report notes for status.

## ASBESTOS ANALYSIS RESULTS

**SOCOTEC Asbestos Limited Certificate of Analysis for Asbestos in Soils, Sediments and Aggregates**

1089

**Detection limit of Method SCI-ASB-020 is 0.001%**

**Sampling has been carried out by a third party**

| | | | |
|---|---|---|---|
| **Client:** | SOCOTEC Environmental Chemistry | **Page 1 of 1** | |
| **Address:** | Etwall House, Bretby Business Park, Ashby Road, Burton upon Trent | **Report No:** | **ANO-0503-17526(2)** |
| **For the attention of:** | RPS | **Report Date:** | **11/06/2018** |
| **Site Address:** | Project Chop | **Project Number:** | **S183017** |

| Sample Number | Sample Date | Sample Location & Matrix | Test Date | Total Sample Dry Weight (g) | Weight of <10mm Fraction (g) | Asbestos(g) in >10mm | Asbestos(g) in < 10mm | % Asbestos by weight of Total Dried Sample | Moisture Content | Asbestos Fibre Types Identified |
|---|---|---|---|---|---|---|---|---|---|---|
| CL/1893503 | 07/02/18 | WS04 0.40 Soils | 16/02/2018 | 1073.5 | 1073.5 | | 0.1722 | 0.016 | | Chrysotile(Free Fibres) <10mm |
| CL/1893515 | 07/02/18 | WS09 0.40 Soils | 16/02/2018 | 929.7 | 929.7 | | 0.2444 | 0.026 | | Amosite(Free Fibres) <10mm |

**Keys**

**NAACR = Not Analysed at Clients Request**

**NAIIS = No Asbestos Identified in Sample (Identification Only)**

*** visible to naked eye**

**NADIS = No Asbestos Detected in Sample (ID & Quant Only)**

Name: Tom Pratt

Position: Lab Coordinator

Authorised Signatory:

The sample analysis for the above results was carried out using the procedures detailed in SOCOTEC Asbestos Limited in house method (SCI-ASB-020) based on EA document Quantification of asbestos in soil and associated materials - Draft 2017. Fibre identification was carried out using SOCOTEC Asbestos Limited in house method of transmitted/polarised light microscopy and centre stop dispersion staining (SCI-ASB-007), based on HSE's HSG 248. The analysis of the < 10mm fraction for asbestos content only includes ACMs and fibres and does not discriminate non-asbestos fibres. All fibres are assumed, unless specified, to be amphiboles. All tests were carried out at SOCOTEC Asbestos Laboratory, Ashbourne House, Bretby Business Park, Ashby Road, Burton-upon-Trent, Staffordshire. DE15 0YZ, UKAS Laboratory Number 1089.



Where individual results are flagged see report notes for status.

# Sample Analysis

# SOCOTEC UK Ltd Environmental Chemistry
# Analytical and Deviating Sample Overview

S183017M

**Customer** RPS
**Site** Project Chop
**Report No** S183017M

Consignment No S72417
Date Logged 09-Feb-2018
In-House Report Due 13-Jun-2018

Please note the results for any subcontracted analysis (identified with a '^') is likely to take up to an additional five working days.

| ID Number | Description | MethodID | ANC | BTEXHSA | | CEN Leachate | | CustServ | ICPBOR | ICPMSS | | | | | | | | | | | | | | | | LOI(%MM) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sampled | Acid Neut. Capacity | BTEX-HSA + MTBE analysis | MTBE (µg/kg) | CEN Leac(P)1 | CEN Leac(P)2 | REPORT A | Boron (H20 Soluble) | Antimony (MS) | Arsenic (MS) | Cadmium (MS) | Chromium (MS) | Cobalt (MS) | Copper (MS) | Lead (MS) | Manganese (MS) | Mercury (MS) | Molybdenum (MS) | Nickel (MS) | Selenium (MS) | Thallium (MS) | Tin (MS) | Uranium (MS) | Vanadium (MS) | Zinc (MS) | L.O.I. % @ 450C |
| Test Method Accredited to ISO17025 | | | | • | • | | | | • | • | • | • | • | • | • | • | • | • | • | • | • | | • | | • | |
| CL/1893498 | WS01 0.70 | 07/02/18 | | | | | | | | | | | | | | | | | | | | | | | | |
| CL/1893499 | WS01 1.60 | 07/02/18 | | | | | | | | | | | | | | | | | | | | | | | | |
| CL/1893500 | WS03 0.50 | 07/02/18 | | | | | | | | | | | | | | | | | | | | | | | | |
| CL/1893501 | WS03 0.90 | 07/02/18 | | | | | | | | | | | | | | | | | | | | | | | | |
| CL/1893502 | WS03 1.50 | 07/02/18 | | | | | | | | | | | | | | | | | | | | | | | | |
| CL/1893503 | WS04 0.40 | 07/02/18 | | | | | | | | | | | | | | | | | | | | | | | | |
| CL/1893504 | WS04 1.10 | 07/02/18 | | | | | | | | | | | | | | | | | | | | | | | | |
| CL/1893505 | WS05 0.30 | 06/02/18 | | | | | | | | | | | | | | | | | | | | | | | | |
| CL/1893506 | WS05 1.00 | 06/02/18 | | | | | | | | | | | | | | | | | | | | | | | | |
| CL/1893507 | WS05 1.50 | 06/02/18 | | | | | | | | | | | | | | | | | | | | | | | | |
| CL/1893508 | WS06 0.40 | 06/02/18 | | | | | | | | | | | | | | | | | | | | | | | | |
| CL/1893509 | WS06 0.90 | 06/02/18 | | | | | | | | | | | | | | | | | | | | | | | | |
| CL/1893510 | WS07 0.50 | 06/02/18 | | | | | | | | | | | | | | | | | | | | | | | | |
| CL/1893511 | WS07 1.20 | 06/02/18 | | | | | | | | | | | | | | | | | | | | | | | | |
| CL/1893512 | WS08 0.50 | 06/02/18 | | | | | | | | | | | | | | | | | | | | | | | | |

**Note: We will endeavour to prioritise samples to complete analysis within holding time; however any delay could result in samples becoming deviant whilst being processed in the laboratory.**

**If sampling dates are missing or matrices unclassified then results will not be ISO 17025 accredited. Please contact us as soon as possible to provide missing information in order to reinstate accreditation.**

**Deviating Sample Key**

| | |
|---|---|
| A | The sample was received in an inappropriate container for this analysis |
| B | The sample was received without the correct preservation for this analysis |
| C | Headspace present in the sample container |
| D | The sampling date was not supplied so holding time may be compromised - applicable to all analysis |
| E | Sample processing did not commence within the appropriate holding time |
| F | Sample processing did not commence within the appropriate handling time |

**Requested Analysis Key**

| | |
|---|---|
| | Analysis Required |
| | Analysis dependant upon trigger result - **Note: due date may be affected if triggered** |
| | No analysis scheduled |
| ^ | Analysis Subcontracted - **Note: due date may vary** |



Where individual results are flagged see report notes for status.
The integrity of data for samples/analysis that have been categorised as Deviating may be compromised. Data may not be representative of the sample at the time of sampling.

# Sample Analysis

# SOCOTEC UK Ltd Environmental Chemistry
# Analytical and Deviating Sample Overview

S183017M

**Customer** RPS
**Site** Project Chop
**Report No** S183017M

Consignment No S72417
Date Logged 09-Feb-2018
In-House Report Due 13-Jun-2018

Please note the results for any subcontracted analysis (identified with a '^') is likely to take up to an additional five working days.

| ID Number | Description | MethodID | MCertS | ORGMAT | PAHMSUS | | PCBECD | PHEHPLCUV | PHSOIL | SFAPI | | Sub002 | | SVOCSW | TMSS | TPHFIDUS | | TPHUSSI | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sampled | MCertS Analysis | Organic Matter % | PAH (16) by GCMS | PAH (17) by GCMS | PCB-7 Congeners Analysis | Phenols by HPLCUV | pH units (AR) | Cyanide(Total) (AR) | Thiocyanate(SCN)(AR) | ^Asbestos ID and Quant (1 to 3) | ^Asbestos Screen & ID (Stage 1) | SVOC + TICs (AR) | Tot.Moisture @ 105C | TPH Band (>C10-C40) | TPH by GCFID (AR) | TPH Ali Band >C10-C12 | TPH Ali Band >C12-C16 | TPH Ali Band >C16-C21 | TPH Ali Band >C21-C35 | TPH Ali Band >C8-C10 | TPH Ali Band >C8-C40 | TPH Aro Band >C10-C12 | TPH Aro Band >C12-C16 | TPH Aro Band >C16-C21 | TPH Aro Band >C21-C35 |
| Test Method Accredited to ISO17025 | | | • | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| CL/1893498 | WS01 0.70 | 07/02/18 | | | | | | | | | | | | | | | | | | | | | | | | | |
| CL/1893499 | WS01 1.60 | 07/02/18 | | | | | | | | | | | | | | | | | | | | | | | | | |
| CL/1893500 | WS03 0.50 | 07/02/18 | | | | | | | | | | | | | | | | | | | | | | | | | |
| CL/1893501 | WS03 0.90 | 07/02/18 | | | | | | | | | | | | | | | | | | | | | | | | | |
| CL/1893502 | WS03 1.50 | 07/02/18 | | | | | | | | | | | | | | | | | | | | | | | | | |
| CL/1893503 | WS04 0.40 | 07/02/18 | | | | | | | | | | | | | | | | | | | | | | | | | |
| CL/1893504 | WS04 1.10 | 07/02/18 | | | | | | | | | | | | | | | | | | | | | | | | | |
| CL/1893505 | WS05 0.30 | 06/02/18 | | | | | | | | | | | | | | | | | | | | | | | | | |
| CL/1893506 | WS05 1.00 | 06/02/18 | | | | | | | | | | | | | | | | | | | | | | | | | |
| CL/1893507 | WS05 1.50 | 06/02/18 | | | | | | | | | | | | | | | | | | | | | | | | | |
| CL/1893508 | WS06 0.40 | 06/02/18 | | | | | | | | | | | | | | | | | | | | | | | | | |
| CL/1893509 | WS06 0.90 | 06/02/18 | | | | | | | | | | | | | | | | | | | | | | | | | |
| CL/1893510 | WS07 0.50 | 06/02/18 | | | | | | | | | | | | | | | | | | | | | | | | | |
| CL/1893511 | WS07 1.20 | 06/02/18 | | | | | | | | | | | | | | | | | | | | | | | | | |
| CL/1893512 | WS08 0.50 | 06/02/18 | | | | | | | E | | | | | | | | | | | | | | | | | | |

**Note: We will endeavour to prioritise samples to complete analysis within holding time; however any delay could result in samples becoming deviant whilst being processed in the laboratory.**

**If sampling dates are missing or matrices unclassified then results will not be ISO 17025 accredited. Please contact us as soon as possible to provide missing information in order to reinstate accreditation.**

**Deviating Sample Key**

| | |
|---|---|
| A | The sample was received in an inappropriate container for this analysis |
| B | The sample was received without the correct preservation for this analysis |
| C | Headspace present in the sample container |
| D | The sampling date was not supplied so holding time may be compromised - applicable to all analysis |
| E | Sample processing did not commence within the appropriate holding time |
| F | Sample processing did not commence within the appropriate handling time |

**Requested Analysis Key**

| | |
|---|---|
| | Analysis Required |
| | Analysis dependant upon trigger result - **Note: due date may be affected if triggered** |
| | No analysis scheduled |
| ^ | Analysis Subcontracted - **Note: due date may vary** |



Where individual results are flagged see report notes for status.
The integrity of data for samples/analysis that have been categorised as Deviating may be compromised. Data may not be representative of the sample at the time of sampling.

# Analytical and Deviating Sample Overview

**Customer** RPS
**Site** Project Chop
**Report No** S183017M

Consignment No S72417
Date Logged 09-Feb-2018
In-House Report Due 13-Jun-2018

Please note the results for any subcontracted analysis (identified with a '^') is likely to take up to an additional five working days.

| ID Number | Description | MethodID | TPHUSSI | | | VOCHSAS | WSLM59 |
|---|---|---|---|---|---|---|---|
| | | Sampled | TPH Aro Band >C8-C10 | TPH Aro Band >C8-C40 | TPH by GCFID (AR/Si) | VOC HSA-GCMS | Total Organic Carbon |
| | Test Method Accredited to ISO17025 | | • | • | • | • | • |
| CL/1893498 | WS01 0.70 | 07/02/18 | | | | | |
| CL/1893499 | WS01 1.60 | 07/02/18 | | | | | |
| CL/1893500 | WS03 0.50 | 07/02/18 | | | | | EF |
| CL/1893501 | WS03 0.90 | 07/02/18 | | | | | |
| CL/1893502 | WS03 1.50 | 07/02/18 | | | | | |
| CL/1893503 | WS04 0.40 | 07/02/18 | | | | | |
| CL/1893504 | WS04 1.10 | 07/02/18 | | | | | |
| CL/1893505 | WS05 0.30 | 06/02/18 | | | | | |
| CL/1893506 | WS05 1.00 | 06/02/18 | | | | | |
| CL/1893507 | WS05 1.50 | 06/02/18 | | | | | |
| CL/1893508 | WS06 0.40 | 06/02/18 | | | | | |
| CL/1893509 | WS06 0.90 | 06/02/18 | | | | | |
| CL/1893510 | WS07 0.50 | 06/02/18 | | | | | |
| CL/1893511 | WS07 1.20 | 06/02/18 | | | | | |
| CL/1893512 | WS08 0.50 | 06/02/18 | | | | | EF |

**Note: We will endeavour to prioritise samples to complete analysis within holding time; however any delay could result in samples becoming deviant whilst being processed in the laboratory.**

**If sampling dates are missing or matrices unclassified then results will not be ISO 17025 accredited. Please contact us as soon as possible to provide missing information in order to reinstate accreditation.**

**Deviating Sample Key**

| | |
|---|---|
| A | The sample was received in an inappropriate container for this analysis |
| B | The sample was received without the correct preservation for this analysis |
| C | Headspace present in the sample container |
| D | The sampling date was not supplied so holding time may be compromised - applicable to all analysis |
| E | Sample processing did not commence within the appropriate holding time |
| F | Sample processing did not commence within the appropriate handling time |

**Requested Analysis Key**

| | |
|---|---|
| | Analysis Required |
| | Analysis dependant upon trigger result - **Note: due date may be affected if triggered** |
| | No analysis scheduled |
| ^ | Analysis Subcontracted - **Note: due date may vary** |


Where individual results are flagged see report notes for status.
The integrity of data for samples/analysis that have been categorised as Deviating may be compromised. Data may not be representative of the sample at the time of sampling.

# Analytical and Deviating Sample Overview

**Customer** RPS
**Site** Project Chop
**Report No** S183017M

Consignment No S72417
Date Logged 09-Feb-2018
In-House Report Due 13-Jun-2018

Please note the results for any subcontracted analysis (identified with a '^') is likely to take up to an additional five working days.

| ID Number | Description | MethodID | ANC | BTEXHSA | | CEN Leachate | | CustServ | ICPBOR | ICPMSS | | | | | | | | | | | | | | | | LOI(%MM) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sampled | Acid Neut. Capacity | BTEX-HSA + MTBE analysis | MTBE (µg/kg) | CEN Leac(P)1 | CEN Leac(P)2 | REPORT A | Boron (H20 Soluble) | Antimony (MS) | Arsenic (MS) | Cadmium (MS) | Chromium (MS) | Cobalt (MS) | Copper (MS) | Lead (MS) | Manganese (MS) | Mercury (MS) | Molybdenum (MS) | Nickel (MS) | Selenium (MS) | Thallium (MS) | Tin (MS) | Uranium (MS) | Vanadium (MS) | Zinc (MS) | L.O.I. % @ 450C |
| Test Method Accredited to ISO17025 | | | | • | • | | | | • | • | • | • | • | • | • | • | • | • | • | • | • | | • | | • | |
| CL/1893513 | WS08 1.10 | 06/02/18 | | | | | | | | | | | | | | | | | | | | | | | | |
| CL/1893514 | WS08 1.50 | 06/02/18 | | | | | | | | | | | | | | | | | | | | | | | | |
| CL/1893515 | WS09 0.40 | 07/02/18 | | | | | | | | | | | | | | | | | | | | | | | | |

**Note: We will endeavour to prioritise samples to complete analysis within holding time; however any delay could result in samples becoming deviant whilst being processed in the laboratory.**

**If sampling dates are missing or matrices unclassified then results will not be ISO 17025 accredited. Please contact us as soon as possible to provide missing information in order to reinstate accreditation.**

**Deviating Sample Key**

| | |
|---|---|
| A | The sample was received in an inappropriate container for this analysis |
| B | The sample was received without the correct preservation for this analysis |
| C | Headspace present in the sample container |
| D | The sampling date was not supplied so holding time may be compromised - applicable to all analysis |
| E | Sample processing did not commence within the appropriate holding time |
| F | Sample processing did not commence within the appropriate handling time |

**Requested Analysis Key**

| | |
|---|---|
| | Analysis Required |
| | Analysis dependant upon trigger result - **Note: due date may be affected if triggered** |
| | No analysis scheduled |
| ^ | Analysis Subcontracted - **Note: due date may vary** |



Where individual results are flagged see report notes for status.
The integrity of data for samples/analysis that have been categorised as Deviating may be compromised. Data may not be representative of the sample at the time of sampling.

# Sample Analysis

# SOCOTEC UK Ltd Environmental Chemistry
# Analytical and Deviating Sample Overview

# S183017M

**Customer** **RPS**
**Site** **Project Chop**
**Report No** **S183017M**

Consignment No S72417
Date Logged 09-Feb-2018
In-House Report Due 13-Jun-2018

Please note the results for any subcontracted analysis (identified with a '^') is likely to take up to an additional five working days.

| ID Number | Description | MethodID | MCertS | ORGMAT | PAHMSUS | | PCBECD | PHEHPLCUV | PHSOIL | SFAPI | | Sub002 | | SVOCSW | TMSS | TPHFIDUS | | TPHUSSI | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sampled | MCertS Analysis | Organic Matter % | PAH (16) by GCMS | PAH (17) by GCMS | PCB-7 Congeners Analysis | Phenols by HPLCUV | pH units (AR) | Cyanide(Total) (AR) | Thiocyanate(SCN)(AR) | ^Asbestos ID and Quant (1 to 3) | ^Asbestos Screen & ID (Stage 1) | SVOC + TICs (AR) | Tot.Moisture @ 105C | TPH Band (>C10-C40) | TPH by GCFID (AR) | TPH Ali Band >C10-C12 | TPH Ali Band >C12-C16 | TPH Ali Band >C16-C21 | TPH Ali Band >C21-C35 | TPH Ali Band >C8-C10 | TPH Ali Band >C8-C40 | TPH Aro Band >C10-C12 | TPH Aro Band >C12-C16 | TPH Aro Band >C16-C21 | TPH Aro Band >C21-C35 |
| Test Method Accredited to ISO17025 | | | • | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| CL/1893513 | WS08 1.10 | 06/02/18 | | | | | | | | | | | | | | | | | | | | | | | | | |
| CL/1893514 | WS08 1.50 | 06/02/18 | | | | | | | | | | | | | | | | | | | | | | | | | |
| CL/1893515 | WS09 0.40 | 07/02/18 | | | | | | | | | | | | | | | | | | | | | | | | | |

**Note: We will endeavour to prioritise samples to complete analysis within holding time; however any delay could result in samples becoming deviant whilst being processed in the laboratory.**

**If sampling dates are missing or matrices unclassified then results will not be ISO 17025 accredited. Please contact us as soon as possible to provide missing information in order to reinstate accreditation.**

**Deviating Sample Key**

| | |
|---|---|
| A | The sample was received in an inappropriate container for this analysis |
| B | The sample was received without the correct preservation for this analysis |
| C | Headspace present in the sample container |
| D | The sampling date was not supplied so holding time may be compromised - applicable to all analysis |
| E | Sample processing did not commence within the appropriate holding time |
| F | Sample processing did not commence within the appropriate handling time |

**Requested Analysis Key**

| | |
|---|---|
| | Analysis Required |
| | Analysis dependant upon trigger result - **Note: due date may be affected if triggered** |
| | No analysis scheduled |
| ^ | Analysis Subcontracted - **Note: due date may vary** |



Where individual results are flagged see report notes for status.
The integrity of data for samples/analysis that have been categorised as Deviating may be compromised. Data may not be representative of the sample at the time of sampling.

# Analytical and Deviating Sample Overview

**Customer** RPS
**Site** Project Chop
**Report No** S183017M

Consignment No S72417
Date Logged 09-Feb-2018
In-House Report Due 13-Jun-2018

Please note the results for any subcontracted analysis (identified with a '^') is likely to take up to an additional five working days.

| ID Number | Description | MethodID | TPHUSSI | | | VOCHSAS | WSLM59 |
|---|---|---|---|---|---|---|---|
| | | Sampled | TPH Aro Band >C8-C10 | TPH Aro Band >C8-C40 | TPH by GCFID (AR/Si) | VOC HSA-GCMS | Total Organic Carbon |
| | Test Method Accredited to ISO17025 | | • | • | • | • | • |
| CL/1893513 | WS08 1.10 | 06/02/18 | | | | | |
| CL/1893514 | WS08 1.50 | 06/02/18 | | | | | |
| CL/1893515 | WS09 0.40 | 07/02/18 | | | | | |

**Note: We will endeavour to prioritise samples to complete analysis within holding time; however any delay could result in samples becoming deviant whilst being processed in the laboratory.**

**If sampling dates are missing or matrices unclassified then results will not be ISO 17025 accredited. Please contact us as soon as possible to provide missing information in order to reinstate accreditation.**

| Deviating Sample Key | |
|---|---|
| A | The sample was received in an inappropriate container for this analysis |
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| F | Sample processing did not commence within the appropriate handling time |

| Requested Analysis Key | |
|---|---|
| | Analysis Required |
| | Analysis dependant upon trigger result - **Note: due date may be affected if triggered** |
| | No analysis scheduled |
| ^ | Analysis Subcontracted - **Note: due date may vary** |



Where individual results are flagged see report notes for status.
The integrity of data for samples/analysis that have been categorised as Deviating may be compromised. Data may not be representative of the sample at the time of sampling.

# Additional Report Notes

| Method Code | Sample ID | The following information should be taken into consideration when using the data contained within this report |
|---|---|---|
| VOCHSAS | CL1893500<br>CL1893502<br>CL1893503<br>CL1893508<br>CL1893512<br>CL1893514<br>CL1893515 | The Primary process control data associated with this Test has not wholly met the requirements of the Laboratory Quality Management System QMS with one or more target analytes falling outside acceptable limits. However the remaining data gives the Laboratory confidence that the test has performed satisfactorily and that the validity of the data may not have been significantly affected. However in line with our QMS policy we have removed accreditation, where applicable, from the affected analytes (Chloromethane, Vinyl Chloride) . These circumstances should be taken into consideration when utilising the data. |
| VOCHSAS | CL1893500<br>CL1893502<br>CL1893503<br>CL1893508<br>CL1893512<br>CL1893514<br>CL1893515 | The Secondary process control data associated with this Test has not wholly met the requirements of the Laboratory Quality Management System QMS with one or more target analytes falling outside acceptable limits. However the remaining data gives the Laboratory confidence that the test has performed satisfactorily (including the Primary Process Control) and that the validity of the data may not have been significantly affected. However in line with our QMS policy we have removed accreditation , where applicable, from the affected analytes (1,1-Dichloroethene, Bromomethane, Chloroethane, Trichlorofluoromethane) . These circumstances should be taken into consideration when utilising the data. |
| VOCHSAS | CL1893500<br>CL1893502<br>CL1893503<br>CL1893508<br>CL1893512<br>CL1893514<br>CL1893515 | Due to matrix interference, the Internal Standard recovery for this Test is below the required QMS specification. This has been confirmed by historic data. All other Laboratory Process Controls meet the requirements of the QMS unless otherwise stated. These circumstances should be taken into consideration when utilising the data. |
| PHEHPLCUV | CL1893500,<br>CL1893512 | The Primary process control data associated with this Test has not wholly met the requirements of the Laboratory Quality Management System QMS with one or more target analytes falling outside acceptable limits. However the remaining data gives the Laboratory confidence that the test has performed satisfactorily and that the validity of the data may not have been significantly affected. However in line with our QMS policy we have removed accreditation, where applicable, from the affected analytes (Methylphenol) . These circumstances should be taken into consideration when utilising the data. |
| SVOCSW | CL1893500<br>CL1893502<br>CL1893503<br>CL1893508<br>CL1893512<br>CL1893514<br>CL1893515 | The Secondary process control data associated with this Test has not wholly met the requirements of the Laboratory Quality Management System QMS with one or more target analytes falling outside acceptable limits. However the remaining data gives the Laboratory confidence that the test has performed satisfactorily (including the Primary Process Control) and that the validity of the data may not have been significantly affected. However in line with our QMS policy we have removed accreditation , where applicable, from the affected analytes (bis(2-Chloroethyl)ether, Hexachloroethane, Dibenzofuran, 2,4-Dinitrotoluene, Diethylphthalate, Di-n-octylphthalate ) . These circumstances should be taken into consideration when utilising the data. |
| SVOCSW | CL1893515 | The matrix of this sample has been found to interfere with the result for this test. The sample has therefore been diluted to improve the signal to noise ratio but in doing so, the detection limit for this test has been elevated. |
| BTEXHSA | CL1893500 | Due to matrix interference, the Internal Standard recovery for this Test is below the required QMS specification. This has been confirmed by repeating the analysis. All other Laboratory Process Controls meet the requirements of the QMS unless otherwise stated. These circumstances should be taken into consideration when utilising the data. |
| | | |
| | | |
| | | |
| | | |
| | | |

# Method Descriptions

| Matrix | MethodID | Analysis Basis | Method Description |
|---|---|---|---|
| Soil | ANC | Oven Dried @ < 35°C | Quantitative digestion with Hydrochloric Acid back titration with 1M Sodium Hydroxide to pH 7 |
| Soil | BTEXHSA | As Received | Determination of Benzene, Toluene, Ethyl benzene and Xylenes (BTEX) by Headspace GCFID |
| Soil | ICPBOR | Oven Dried @ < 35°C | Determination of Boron in soil samples by hot water extraction followed by ICPOES detection |
| Soil | ICPMSS | Oven Dried @ < 35°C | Determination of Metals in Marine Sediments and Soil samples by aqua regia digestion followed by ICPMS detection |
| Soil | LOI(%MM) | Oven Dried @ < 35°C | Determination of loss on ignition for soil samples at specified temperature by gravimetry |
| Soil | ORGMAT | Oven Dried @ < 35°C | Acid Dichromate oxidation of the sample followed by colorimetric analysis of the extract |
| Soil | PAHMSUS | As Received | Determination of Polycyclic Aromatic Hydrocarbons (PAH) by hexane/acetone extraction followed by GCMS detection |
| Soil | PCBECD | As Received | Determination of Polychlorinated Biphenyl (PCB) congeners/aroclors by hexane/acetone extraction followed by GCECD detection |
| Soil | PHEHPLCUV | As Received | Determination of Phenols by HPLC with UV Detection |
| Soil | PHSOIL | As Received | Determination of pH of 2.5:1 deionised water to soil extracts using pH probe. |
| Soil | SFAPI | As Received | Segmented flow analysis with colorimetric detection |
| Soil | SubCon* | * | Contact Laboratory for details of the methodology used by the sub-contractor. |
| Soil | SVOCSW | As Received | Determination of Semi-Volatile Organic Compounds by dichloromethane/acetone extraction followed by GCMS detection |
| Soil | TMSS | As Received | Determination of the Total Moisture content at 105ºC by loss on oven drying gravimetric analysis (% based upon wet weight) |
| Soil | TPHFIDUS | As Received | Determination of hexane/acetone extractable Hydrocarbons in soil with GCFID detection. |
| Soil | TPHUSSI | As Received | Determination of hexane/acetone extractable Hydrocarbons in soil with GCFID detection including quantitation of Aromatic and Aliphatic fractions. |
| Soil | VOCHSAS | As Received | Determination of Volatile Organic Compounds (VOC) by Headspace GCMS |
| Soil | WSLM59 | Oven Dried @ < 35°C | Determination of Organic Carbon in soil using sulphurous Acid digestion followed by high temperature combustion and IR detection |
| Water | ICPMSW | As Received | Direct quantitative determination of Metals in water samples using ICPMS |

# Method Descriptions

| Matrix | MethodID | Analysis Basis | Method Description |
|---|---|---|---|
| Water | ICPWATVAR | As Received | Direct determination of Metals and Sulphate in water samples using ICPOES |
| Water | ISEF | As Received | Determination of Fluoride in water samples by Ion Selective Electrode (ISE) |
| Water | KONENS | As Received | Direct analysis using discrete colorimetric analysis |
| Water | SFAPI | As Received | Segmented flow analysis with colorimetric detection |
| Water | WSLM13 | As Received | Instrumental analysis using acid/persulphate digestion and non-dispersive IR detection |
| Water | WSLM2 | As Received | Determination of the Electrical Conductivity (µS/cm) by electrical conductivity probe. |
| Water | WSLM27 | As Received | Gravimetric Determination |
| Water | WSLM3 | As Received | Determination of the pH of water samples by pH probe |

# Report Notes

## Generic Notes

**Soil/Solid Analysis**

Unless stated otherwise,
- Results expressed as mg/kg have been calculated on the basis indicated in the Method Description table.
  All results on MCERTS reports are reported on a 105ºC dry weight basis with the exception of pH and conductivity.
- Sulphate analysis not conducted in accordance with BS1377
- Water Soluble Sulphate is on a 2:1 water:soil extract

**Waters Analysis**

Unless stated otherwise results are expressed as mg/l

**Nil**: Where "Nil" has been entered against Total Alkalinity or Total Acidity this indicates that a measurement was not required due to the inherent pH of the sample.

**Oil analysis specific**

Unless stated otherwise,
- Results are expressed as mg/kg
- SG is expressed as g/cm$^3$@ 15$^o$C

**Gas (Tedlar bag) Analysis**

Unless stated otherwise, results are expressed as ug/l

**Asbestos Analysis**

**CH** Denotes Chrysotile **TR** Denotes Tremolite
**CR** Denotes Crocidolite **AC** Denotes Actinolite
**AM** Denotes Amosite **AN** Denotes Anthophylite
**NAIIS** No Asbestos Identified in Sample
**NADIS** No Asbestos Detected In Sample

## Symbol Reference

**^** Sub-contracted analysis.
**$$** Unable to analyse due to the nature of the sample
¶ Samples submitted for this analyte were not preserved on site in accordance with laboratory protocols. This may have resulted in deterioration of the sample(s) during transit to the laboratory. Consequently the reported data may not represent the concentration of the target analyte present in the sample at the time of sampling
**¥** Results for guidance only due to possible interference
**&** Blank corrected result
**I.S** Insufficient sample to complete requested analysis
**I.S(g)** Insufficient sample to re-analyse, results for guidance only
**Intf** Unable to analyse due to interferences
**N.D** Not determined **N.Det** Not detected
**N.F** No Flow
**NS** Information Not Supplied
**Req** Analysis requested, see attached sheets for results
**Þ** Raised detection limit due to nature of the sample
***** All accreditation has been removed by the laboratory for this result
‡ MCERTS accreditation has been removed for this result
§ accreditation has been removed for this result as it is a non-accredited matrix

**Note:** The Laboratory may only claim that data is accredited when all of the requirements of our Quality System have been met. Where these requirements have not been met the laboratory may elect to include the data in its final report and remove the accreditation from individual data items if it believes that the validity of the data has not been affected. If further details are required of the circumstances which have led to the removal of accreditation then please do not hesitate to contact the laboratory.

## Sample Descriptions

**Client :** RPS

**Site :** Project Chop

**Report Number :** S18_3017

Note: major constituent in upper case

| Lab ID Number | Client ID | Description |
|---|---|---|
| CL/1893498 | WS01 0.70 | Brown MADE GROUND |
| CL/1893499 | WS01 1.60 | Brown CLAY |
| CL/1893500 | WS03 0.50 | Brown Gravel SILT |
| CL/1893501 | WS03 0.90 | Brown Gravel CLAY |
| CL/1893502 | WS03 1.50 | Brown Gravel CLAY |
| CL/1893503 | WS04 0.40 | Brown MADE GROUND |
| CL/1893504 | WS04 1.10 | Brown Gravel CLAY |
| CL/1893505 | WS05 0.30 | Brown Gravel CLAY |
| CL/1893506 | WS05 1.00 | Brown Gravel SILT |
| CL/1893507 | WS05 1.50 | Brown Gravel CLAY |
| CL/1893508 | WS06 0.40 | Brown MADE GROUND |
| CL/1893509 | WS06 0.90 | Brown Gravel SILT |
| CL/1893510 | WS07 0.50 | Brown Gravel CLAY |
| CL/1893511 | WS07 1.20 | Brown Gravel CLAY |
| CL/1893512 | WS08 0.50 | Brown Gravel SILT |
| CL/1893513 | WS08 1.10 | Brown Gravel SILT |
| CL/1893514 | WS08 1.50 | Brown CLAY |
| CL/1893515 | WS09 0.40 | Brown Gravel CLAY |

Our Ref: EFS/183018M (Ver. 1)
Your Ref: JER6108-CH

February 19, 2018

Environmental Chemistry
SOCOTEC UK Limited
Bretby Business Park
Ashby Road
Burton-on-Trent
Staffordshire
DE15 0YZ

Telephone: 01283 554400
Facsimile: 01283 554422

Adam Parker
RPS
2420 The Quadrant
Aztec West
Almondsbury
Bristol
BS32 4AQ

For the attention of Adam Parker

Dear Adam Parker

**Sample Analysis - Project Chop**

Samples from the above site have been analysed in accordance with the schedule supplied.
The sample details and the results of analyses for these samples are given in the appended report.

An invoice for this work will follow under a separate cover.

Where appropriate the samples will be kept until 23/03/18 when they will be discarded. Please call 01283 554458 for an extension of this date.
Please be aware that our policy for the retention of paper based laboratory records and analysis reports is 6 years.

The work was carried out in accordance with SOCOTEC UK Limited (Laboratory and Analytical) Standard Terms and Conditions of Contract.

If I can be of any further assistance please do not hesitate to contact me.

Yours sincerely

for SOCOTEC UK Limited

J Chislett
Project Co-ordinator
01283 554458


Environmental Chemistry, SOCOTEC UK Limited, P.O. Box 100, Burton-upon-trent, DE15 0XD Tel: 01283 554400 Fax: 01283 554422
SOCOTEC UK Limited.
Registered No: 2880501

# TEST REPORT

1252

## Report No. EFS/183018M (Ver. 1)

RPS
RPS
2420 The Quadrant
Aztec West
Almondsbury
Bristol
BS32 4AQ

**Site: Project Chop**

The 2 samples described in this report were registered for analysis by SOCOTEC UK Limited on 09-Feb-2018. This report supersedes any versions previously issued by the laboratory.
The analysis was completed by: 19-Feb-2018

Tests where the accreditation is set to N or No, and any individual data items marked with a * are not UKAS or MCERTS accredited. Any opinions or interpretations expressed herein are outside the scope of any UKAS accreditation held by SOCOTEC UK Limited.

The following tables are contained in this report:


Table 1 Main Analysis Results (Pages 2 to 12)
Table of SVOC (Tics) Results (Page 13)
Table of TPH (Si) banding (std) (Page 14)
Table of Asbestos Screening Results (Page 15)
Analytical and Deviating Sample Overview (Pages 16 to 17)
Table of Additional Report Notes (Page 18)
Table of Method Descriptions (Page 19)
Table of Report Notes (Page 20)
Table of Sample Descriptions (Appendix A Page 1 of 1)


On behalf of
SOCOTEC UK Lim
Tim Barnes Operations Director
Energy & Waste Services

Date of Issue: 19-Feb-2018

Accreditation Codes: **N** (Not Accredited), **U** (UKAS), **UM** (UKAS & MCERTS)
Tests marked '^' have been subcontracted to another laboratory.
(NVM) - denotes the sample matrix is dissimilar to matrices upon which the MCERTS validation was based, and is therefore not accredited for MCERTS.
All results are reported on a dry weight basis at 105$^{o}$C unless otherwise stated. (except QC samples)
SOCOTEC UK Limited accepts no responsibility for any sampling not carried out by our personnel.

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Units :** | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | µg/kg | µg/kg | µg/kg | µg/kg | µg/kg |
| **Method Codes :** | | | ICPBOR | ICPMSS | ICPMSS | ICPMSS | ICPMSS | ICPMSS | ICPMSS | ICPMSS | ICPMSS | ICPMSS | PAHMSUS | PCBECD | PCBECD | PCBECD | PCBECD | PCBECD |
| **Method Reporting Limits :** | | | 0.5 | 0.3 | 0.2 | 1.2 | 1.6 | 0.7 | 0.5 | 2 | 0.5 | 16 | 0.08 | 5 | 5 | 5 | 5 | 5 |
| **Accreditation Code:** | | | UM | UM | UM | UM | UM | UM | UM | UM | UM | UM | UM | UM | UM | UM | UM | UM |
| **LAB ID Number CL/** | **Client Sample Description** | **Sample Date** | **Boron (H20 Soluble)** | **Arsenic (MS)** | **Cadmium (MS)** | **Chromium (MS)** | **Copper (MS)** | **Lead (MS)** | **Mercury (MS)** | **Nickel (MS)** | **Selenium (MS)** | **Zinc (MS)** | **Naphthalene** | **PCB 101** | **PCB 118** | **PCB 138** | **PCB 153** | **PCB 180** |
| 1893516 | WS10 0.40 | 07-Feb-18 | 3.06 | 10.7 | 1.73 | 26.4 | 301.7 | 252.6 | <0.53 | 30.5 | <0.5 | 327.0 | 0.15 | <6.35 | <6.35 | <6.35 | <6.35 | <6.35 |
| 1893517 | WS10 1.00 | 07-Feb-18 | 8.28 | 6.4 | <0.21 | 18.1 | 18.9 | 33.5 | <0.5 | 15.6 | <0.5 | 51.5 | | | | | | |


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Fax +44 (0) 1283 554422


**Client Name** RPS

**Contact** Adam Parker

# Project Chop

## Sample Analysis

| | |
|---|---|
| **Date Printed** | **20-Feb-2018** |
| **Report Number** | **EFS/183018M** |
| **Table Number** | **1** |



Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105°C where appropriate, in accordance with the MCERTS standard.

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Units :** | | | µg/kg | µg/kg | mg/kg | mg/kg | % | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| **Method Codes :** | | | PCBECD | PCBECD | SFAPI | SFAPI | Sub002 | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW |
| **Method Reporting Limits :** | | | 5 | 5 | 0.5 | 2 | | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.5 | 0.1 |
| **Accreditation Code:** | | | UM | UM | UM | UM | U | U | U | U | U | U | U | U | U | U | U | U |
| **LAB ID Number CL/** | **Client Sample Description** | **Sample Date** | **PCB 28** | **PCB 52** | **Cyanide(Total) (AR)** | **Thiocyanate(SCN)(AR)** | **^Asbestos Screen & ID (Stage 1)** | **1,2-Dichlorobenzene** | **1,3-Dichlorobenzene** | **1,4-Dichlorobenzene** | **1-Methylnaphthalene** | **2,4,5-Trichlorophenol** | **2,4,6-Trichlorophenol** | **2,4-Dichlorophenol** | **2,4-Dimethylphenol** | **2,4-Dinitrotoluene** | **2,6-Dinitrotoluene** | **2-Chloronaphthalene** |
| 1893516 | WS10 0.40 | 07-Feb-18 | <6.35 | <6.35 | <0.6 | <3 | NAIIS | <0.635 | <0.635 | <0.635 | <0.635 | <0.635 | <0.635 | <0.635 | <0.635 | <1.271* | <3.18 | <0.635 |
| 1893517 | WS10 1.00 | 07-Feb-18 | | | | | | | | | | | | | | | | |


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## Sample Analysis

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|---|---|
| **Date Printed** | **20-Feb-2018** |
| **Report Number** | **EFS/183018M** |
| **Table Number** | **1** |



Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105°C where appropriate, in accordance with the MCERTS standard.

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Units :** | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| **Method Codes :** | | | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW |
| **Method Reporting Limits :** | | | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.5 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.5 |
| **Accreditation Code:** | | | U | U | U | U | U | U | U | U | U | U | U | U | U | U | U | U |
| **LAB ID Number CL/** | **Client Sample Description** | **Sample Date** | **2-Chlorophenol** | **2-Methylnaphthalene** | **2-Methylphenol** | **2-Nitrophenol** | **3- & 4-Methylphenol** | **4-Bromophenyl-phenylether** | **4-Chloro-3-methylphenol** | **4-Chlorophenol** | **4-Chlorophenyl-phenylether** | **Acenaphthene** | **Acenaphthylene** | **Anthracene** | **Benzo(a)anthracene** | **Benzo(a)pyrene** | **Benzo(b)fluoranthene** | **Benzo(ghi)perylene** |
| 1893516 | WS10 0.40 | **07-Feb-18** | <0.635 | <0.635 | <0.635 | <0.635 | <0.635 | <0.635 | <0.635 | <3.18 | <0.635 | 9.73 | <0.635 | 26.2 | 27.8 | 22.1 | 36.7 | 8.08 |
| 1893517 | WS10 1.00 | **07-Feb-18** | | | | | | | | | | | | | | | | |

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| | |
|---|---|
| **Client Name** | **RPS** |
| **Contact** | Adam Parker |

# Project Chop

## Sample Analysis

| | |
|---|---|
| **Date Printed** | **20-Feb-2018** |
| **Report Number** | **EFS/183018M** |
| **Table Number** | **1** |



Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105°C where appropriate, in accordance with the MCERTS standard.

| | | Units : | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Method Codes : | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW |
| | | Method Reporting Limits : | 0.2 | 0.5 | 0.1 | 0.1 | 0.1 | 0.5 | 0.2 | 0.2 | 0.1 | 0.5 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 |
| | | Accreditation Code: | U | U | U | U | U | U | U | U | U | U | U | U | U | U | U | U |
| LAB ID Number CL/ | Client Sample Description | Sample Date | Benzo(k)fluoranthene | Benzyl alcohol | Biphenyl | bis(2-Chloroethoxy)methane | bis(2-Chloroethyl)ether | bis(2-Chloroisopropyl)ether | bis(2-Ethylhexyl)phthalate | Butylbenzylphthalate | Chrysene | Dibenzo(ah)anthracene | Dibenzofuran | Diethylphthalate | Dimethylphthalate | Di-n-butylphthalate | Di-n-octylphthalate | Diphenyl Ether |
| 1893516 | WS10 0.40 | 07-Feb-18 | 17.8 | <3.18 | <0.635 | <0.635 | <0.635* | <3.18 | <1.271 | <1.271 | 23.8 | <3.18 | 4.32* | <0.635* | <0.635 | <0.635 | <1.271* | <0.635 |
| 1893517 | WS10 1.00 | 07-Feb-18 | | | | | | | | | | | | | | | | |


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## Sample Analysis

| | |
|---|---|
| Date Printed | 20-Feb-2018 |
| Report Number | EFS/183018M |
| Table Number | 1 |



Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105°C where appropriate, in accordance with the MCERTS standard.

| | | Units : | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | % | mg/kg | µg/kg | µg/kg | µg/kg | µg/kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Method Codes : | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | TMSS | TPHUSSI | VOCHSAS | VOCHSAS | VOCHSAS | VOCHSAS |
| | | Method Reporting Limits : | 0.2 | 0.2 | 0.1 | 0.1 | 0.5 | 0.1 | 0.5 | 0.1 | 0.1 | 0.2 | 0.1 | 20 | 1 | 1 | 1 | 1 |
| | | Accreditation Code: | U | U | U | U | U | U | U | U | U | U | U | | UM | UM | UM | UM |
| LAB ID Number CL/ | Client Sample Description | Sample Date | Fluoranthene | Fluorene | Hexachlorobenzene | Hexachloroethane | Indeno(123-cd)pyrene | Naphthalene | Nitrobenzene | Phenanthrene | Phenol | Pyrene | Tot.Moisture @ 105C | TPH by GCFID (AR/Si) | 1,1,1,2-Tetrachloroethane | 1,1,1-Trichloroethane | 1,1,2-Trichloroethane | 1,1-Dichloroethane |
| 1893516 | WS10 0.40 | 07-Feb-18 | 61.9 | 14.9 | <0.635 | <0.635* | 12.44 | <0.635 | <3.18 | 85.9 | <0.635 | 58.8 | 21.3 | Req | <1.3 | <1.3 | <1.3 | <1.3 |
| 1893517 | WS10 1.00 | 07-Feb-18 | | | | | | | | | | | 18.0 | Req | | | | |


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| | |
|---|---|
| Client Name | RPS |
| Contact | Adam Parker |

# Project Chop

## Sample Analysis

| | |
|---|---|
| Date Printed | 20-Feb-2018 |
| Report Number | EFS/183018M |
| Table Number | 1 |



Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105°C where appropriate, in accordance with the MCERTS standard.

| | | | Units : | µg/kg | µg/kg | µg/kg | µg/kg | µg/kg | µg/kg | µg/kg | µg/kg | µg/kg | µg/kg | µg/kg | µg/kg | µg/kg | µg/kg | µg/kg | µg/kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Method Codes : | VOCHSAS | VOCHSAS | VOCHSAS | VOCHSAS | VOCHSAS | VOCHSAS | VOCHSAS | VOCHSAS | VOCHSAS | VOCHSAS | VOCHSAS | VOCHSAS | VOCHSAS | VOCHSAS | VOCHSAS | VOCHSAS |
| | | | Method Reporting Limits : | 1 | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | | Accreditation Code: | U | UM | UM | UM | UM | UM | UM | UM | UM | UM | UM | UM | UM | UM | UM | UM |
| LAB ID Number CL/ | Client Sample Description | Sample Date | | 1,1-Dichloroethene | 1,1-Dichloropropene | 1,2,3-Trichlorobenzene | 1,2,3-Trichloropropane | 1,2,4-Trimethylbenzene | 1,2-Dibromoethane | 1,2-Dichlorobenzene | 1,2-Dichloroethane | 1,2-Dichloropropane | 1,3,5-Trimethylbenzene | 1,3-Dichlorobenzene | 1,3-Dichloropropane | 1,4-Dichlorobenzene | 2,2-Dichloropropane | 2-Chlorotoluene | 4-Chlorotoluene |
| 1893516 | WS10 0.40 | 07-Feb-18 | | <1.3* | <1.3 | <3.8 | <1.3 | <1.3 | <1.3 | <1.3 | <1.3 | <1.3 | <1.3 | <1.3 | <1.3 | <1.3 | <1.3 | <1.3 | <1.3 |
| 1893517 | WS10 1.00 | 07-Feb-18 | | | | | | | | | | | | | | | | | |


SOCOTEC

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Fax +44 (0) 1283 554422


| | |
|---|---|
| Client Name | RPS |
| Contact | Adam Parker |

# Project Chop

## Sample Analysis

| | |
|---|---|
| Date Printed | 20-Feb-2018 |
| Report Number | EFS/183018M |
| Table Number | 1 |



Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105°C where appropriate, in accordance with the MCERTS standard.

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Units :** | | | µg/kg | µg/kg | µg/kg | µg/kg | µg/kg | µg/kg | µg/kg | µg/kg | µg/kg | µg/kg | µg/kg | µg/kg | µg/kg | µg/kg | µg/kg | µg/kg | µg/kg |
| **Method Codes :** | | | VOCHSAS | VOCHSAS | VOCHSAS | VOCHSAS | VOCHSAS | VOCHSAS | VOCHSAS | VOCHSAS | VOCHSAS | VOCHSAS | VOCHSAS | VOCHSAS | VOCHSAS | VOCHSAS | VOCHSAS | VOCHSAS | VOCHSAS |
| **Method Reporting Limits :** | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 3 | 5 | 1 | 1 | 1 | 1 | 2 |
| **Accreditation Code:** | | | UM | UM | UM | UM | UM | UM | UM | UM | UM | UM | U | UM | UM | UM | UM | UM | UM |
| **LAB ID Number CL/** | **Client Sample Description** | **Sample Date** | **Benzene** | **Bromobenzene** | **Bromochloromethane** | **Bromodichloromethane** | **Bromoform** | **Bromomethane** | **Carbon Tetrachloride** | **Chlorobenzene** | **Chloroethane** | **Chloroform** | **Chloromethane** | **cis 1,2-Dichloroethene** | **cis 1,3-Dichloropropene** | **Dibromochloromethane** | **Dibromomethane** | **Ethylbenzene** |
| 1893516 | WS10 0.40 | **07-Feb-18** | <1.3 | <1.3 | <1.3 | <1.3 | <1.3 | <1.3* | <1.3 | <1.3 | <2.5* | <1.3 | <3.8* | <6.4 | <1.3 | <1.3 | <1.3 | <2.5 |
| 1893517 | WS10 1.00 | **07-Feb-18** | | | | | | | | | | | | | | | | |


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| | |
|---|---|
| **Client Name** | **RPS** |
| **Contact** | Adam Parker |

# Project Chop

## Sample Analysis

| | |
|---|---|
| **Date Printed** | **20-Feb-2018** |
| **Report Number** | **EFS/183018M** |
| **Table Number** | **1** |



Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105°C where appropriate, in accordance with the MCERTS standard.

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Units :** | | | µg/kg | µg/kg | µg/kg | µg/kg | µg/kg | µg/kg | µg/kg | µg/kg | µg/kg | µg/kg | µg/kg | µg/kg | µg/kg | µg/kg | µg/kg | µg/kg |
| **Method Codes :** | | | VOCHSAS | VOCHSAS | VOCHSAS | VOCHSAS | VOCHSAS | VOCHSAS | VOCHSAS | VOCHSAS | VOCHSAS | VOCHSAS | VOCHSAS | VOCHSAS | VOCHSAS | VOCHSAS | VOCHSAS | VOCHSAS |
| **Method Reporting Limits :** | | | 1 | 4 | 1 | 5 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 3 | 5 | 1 | 1 | 1 |
| **Accreditation Code:** | | | UM | UM | UM | UM | U | UM | UM | UM | UM | UM | UM | UM | UM | UM | UM | UM |
| **LAB ID Number CL/** | **Client Sample Description** | **Sample Date** | **iso-Propylbenzene** | **m and p-Xylene** | **MTBE** | **Naphthalene** | **n-Butylbenzene** | **o-Xylene** | **p-Isopropyltoluene** | **Propylbenzene** | **sec-Butylbenzene** | **Styrene** | **tert-Butylbenzene** | **Tetrachloroethene** | **Toluene** | **trans 1,2-Dichloroethene** | **trans 1,3-Dichloropropene** | **Trichloroethene** |
| 1893516 | WS10 0.40 | **07-Feb-18** | <1.3 | <5.1 | <1.3 | <6.4 | <1.3 | <2.5 | <1.3 | <1.3 | 3.8 | <1.3 | <1.3 | <3.8 | <6.4 | <1.3 | <1.3 | <1.3 |
| 1893517 | WS10 1.00 | **07-Feb-18** | | | | | | | | | | | | | | | | |


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| | |
|---|---|
| **Client Name** | **RPS** |
| **Contact** | Adam Parker |

# Project Chop

## Sample Analysis

| | |
|---|---|
| **Date Printed** | **20-Feb-2018** |
| **Report Number** | **EFS/183018M** |
| **Table Number** | **1** |



Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105°C where appropriate, in accordance with the MCERTS standard.

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Units :** | | | µg/kg | µg/kg | % | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| **Method Codes :** | | | VOCHSAS | VOCHSAS | ORGMAT | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW |
| **Method Reporting Limits :** | | | 1 | 1 | 0.1 | 0.1 | 0.5 | 0.5 | 14.5 | 0.2 | 0.5 | 0.6 | 0.5 | 0.5 | 0.3 | 0.1 | 0.1 | 0.1 | |
| **Accreditation Code:** | | | UM | UM | N | N | N | N | N | N | N | N | N | N | N | N | N | N | |
| **LAB ID Number CL/** | **Client Sample Description** | **Sample Date** | **Trichlorofluoromethane** | **Vinyl Chloride** | **Organic Matter %** | **1,2,4-Trichlorobenzene** | **2,4-Dinitrophenol** | **2-Nitroaniline** | **3-Nitroaniline** | **4,6-Dinitro-2-methylphenol** | **4-Chloroaniline** | **4-Nitroaniline** | **4-Nitrophenol** | **Benzoic Acid** | **Coronene** | **Hexachlorobutadiene** | **Hexachlorocyclopentadiene** | **Isophorone** | |
| 1893516 | WS10 0.40 | **07-Feb-18** | <1.3* | <1.3* | 3.3 | <0.635 | <3.18 | <3.18 | <92.1 | <1.271 | <3.18 | <3.81 | <3.18 | <3.18 | <1.91 | <0.635 | <0.635 | <0.635 | |
| 1893517 | WS10 1.00 | **07-Feb-18** | | | | | | | | | | | | | | | | | |

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| | |
|---|---|
| **Client Name** | **RPS** |
| **Contact** | Adam Parker |

# Project Chop

## Sample Analysis

| | |
|---|---|
| **Date Printed** | **20-Feb-2018** |
| **Report Number** | **EFS/183018M** |
| **Table Number** | **1** |



Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105°C where appropriate, in accordance with the MCERTS standard.

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | **Units :** | mg/kg | mg/kg | mg/kg | µg/kg | µg/kg | µg/kg | µg/kg | µg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| | | **Method Codes :** | SVOCSW | SVOCSW | SVOCSW | VOCHSAS | VOCHSAS | VOCHSAS | VOCHSAS | VOCHSAS | PAHMSUS | PAHMSUS | PAHMSUS | PAHMSUS | PAHMSUS | PAHMSUS | PAHMSUS | PAHMSUS | PAHMSUS |
| | | **Method Reporting Limits :** | 0.9 | 0.1 | 0.5 | 1 | 3 | 1 | 1 | 2 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 |
| | | **Accreditation Code:** | N | N | N | N | N | N | N | N | UM | U | U | UM | UM | UM | UM | UM | UM |
| **LAB ID Number CL/** | **Client Sample Description** | **Sample Date** | **N-Nitroso-di-n-propylamine** | **N-Nitrosodiphenylamine** | **Pentachlorophenol** | **1,1,2,2-Tetrachloroethane** | **1,2,4-Trichlorobenzene** | **1,2-Dibromo-3-chloropropane** | **Dichlorodifluoromethane** | **Hexachlorobutadiene** | **Acenaphthene** | **Acenaphthylene** | **Anthracene** | **Benzo(a)anthracene** | **Benzo(a)pyrene** | **Benzo(b)fluoranthene** | **Benzo(ghi)perylene** | **Benzo(k)fluoranthene** |
| 1893516 | WS10 0.40 | **07-Feb-18** | <5.72 | <0.635 | <3.18 | <1.3 | <3.8 | <1.3 | <1.3 | <2.5 | 13.5 | 0.62 | 38.6 | 33.9 | 25.7 | 27.7 | 9.85 | 10.91 |
| 1893517 | WS10 1.00 | **07-Feb-18** | | | | | | | | | | | | | | | | |


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| | |
|---|---|
| **Client Name** | **RPS** |
| **Contact** | Adam Parker |

# Project Chop

## Sample Analysis

| | |
|---|---|
| **Date Printed** | **20-Feb-2018** |
| **Report Number** | **EFS/183018M** |
| **Table Number** | **1** |



Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105°C where appropriate, in accordance with the MCERTS standard.

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Units :** | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | | | |
| **Method Codes :** | | | PAHMSUS | PAHMSUS | PAHMSUS | PAHMSUS | PAHMSUS | PAHMSUS | PAHMSUS | PAHMSUS | PHEHPLCUV | PHEHPLCUV | PHEHPLCUV | PHEHPLCUV | PHEHPLCUV | | | |
| **Method Reporting Limits :** | | | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 1.28 | 0.1 | 0.1 | 0.1 | 0.1 | 0.4 | | | |
| **Accreditation Code:** | | | UM | UM | UM | UM | UM | UM | UM | U | UM | UM | UM | UM | UM | | | |
| **LAB ID Number CL/** | **Client Sample Description** | **Sample Date** | **Chrysene** | **Dibenzo(ah)anthracene** | **Fluoranthene** | **Fluorene** | **Indeno(123-cd)pyrene** | **Phenanthrene** | **Pyrene** | **Total PAH (Sum of USEPA 16)** | **Phenol** | **Methyl Phenols** | **Dimethylphenols** | **Trimethylphenols** | **Total Phenols** | | | |
| 1893516 | WS10 0.40 | **07-Feb-18** | 27.3 | 2.68 | 166 | 16.8 | 13.5 | 69.5 | 137 | 593 | <0.1 | 1.44* | 1.25 | 0.57 | <3.38 | | | |
| 1893517 | WS10 1.00 | **07-Feb-18** | | | | | | | | | | | | | | | | |


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| | |
|---|---|
| **Client Name** | **RPS** |
| **Contact** | Adam Parker |

# Project Chop

## Sample Analysis

| | |
|---|---|
| **Date Printed** | **20-Feb-2018** |
| **Report Number** | **EFS/183018M** |
| **Table Number** | **1** |



Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105°C where appropriate, in accordance with the MCERTS standard.

# SVOC (TICs)

**Accredited?:No**

| | | | |
|---|---|---|---|
| **Customer and Site Details:** | RPS: Project Chop | | |
| **Sample Details:** | WS10 0.40 | **Job Number:** | S18_3018 |
| **LIMS ID Number:** | CL1893516 | | |
| | | **Multiplier:** | 1 |
| **Date Booked in:** | 09-Feb-18 | **Dilution Factor:** | 5 |
| **Date Extracted:** | 09-Feb-18 | **GPC (Y/N):** | N |
| **Date Analysed:** | 15-Feb-18 | **Matrix:** | Soil |
| **QC Batch Number:** | 29 | **Method:** | Ultrasonic |
| **Directory/Quant File:** | 021418_MS16\ 0 | **Operator:** | RP/AK |

| Tentatively Identified Compounds | CAS # | R.T. | Concentration mg/kg | % Fit | Accr. code |
|---|---|---|---|---|---|
| Benzo[e]pyrene | 000192-97-2 | 10.78 | 8.354 | 98 | N |
| 2-P-NITROPHENYL-1,3,4-OXADIAZOL-5-ONE | 041125-77-3 | 16.29 | 6.753 | 55 | N |
| 13H-Dibenzo[a,h]fluorene | 000239-85-0 | 11.36 | 3.882 | 92 | N |
| 1,1'-Biphenyl, 2-methyl- | 000643-58-3 | 5.46 | 3.343 | 89 | N |
| Unknown peak | - | 2.77 | 2.873 | - | N |
| Cyclopenta[cd]pyrene | 027208-37-3 | 8.18 | 2.824 | 96 | N |
| 1,2:7,8-Dibenzphenanthrene | 000213-46-7 | 13.16 | 2.823 | 86 | N |
| 11H-Benzo[b]fluorene | 000243-17-4 | 7.38 | 2.758 | 95 | N |
| Perylene, 3-methyl- | 024471-47-4 | 11.73 | 2.749 | 64 | N |
| Benzo[ghi]perylene | 000191-24-2 | 13.49 | 2.596 | 95 | N |
| 4H-Cyclopenta[def]phenanthrene | 000203-64-5 | 6.41 | 2.345 | 93 | N |
| Indeno[1,2,3-cd]pyrene | 000193-39-5 | 12.79 | 2.195 | 89 | N |
| 4-N-phenyl-amino-1,2-butylene-5,6-dimethyl-7H-pyrro[2.3-d]p | 100633-92-9 | 11.89 | 2.172 | 83 | N |
| Dinaphtho(1,2-b:2',1'-d)thiophene | 000239-72-5 | 12.69 | 1.992 | 56 | N |
| Benzene, 1-(1,1-dimethylethyl)-2-methoxy-4-methyl-3,5-dinitr | 000083-66-9 | 10.16 | 1.908 | 64 | N |
| | | | | | |
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The compounds listed above have been tentatively identified by a computer based library search.
Compounds identified in the sample are not reported if they also occur in the method blank.
The % fit is an indication of the reliability of the compound assignment.
Due to the similarity between mass spectra of some isomeric compounds assignments may not be correct.
Other compounds may also be present but identification was not possible.
Concentrations are semi-quantitative, assume a response factor of 1 and use the nearest internal standard.
Concentrations are reported on a dry weight basis.



Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105°C where appropriate, in accordance with the MCERTS standard.

# ALIPHATIC / AROMATIC FRACTION BY GC/FID

**Customer and Site Details:** RPS : Project Chop
**Job Number:** S18_3018M
**QC Batch Number:** 180166
**Directory:** D:\TES\DATA\Y2018\021418TPH_GC17\021418A 2018-02-14 15-49-02\B-028-79-CL1893517ARO.D
**Method:** Ultra Sonic

**Separation:** Silica gel
**Eluents:** Hexane, DCM

**Matrix:** Soil
**Date Booked in** 09-Feb-18
**Date Extracted** 14-Feb-18
**Date Analysed** 14-Feb-18, 21:03:35

This sample data is not MCERTS accredited.
*** This sample data is not ISO17025 accredited.**

| | | Concentration, (mg/kg) - as dry weight. | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | >C8 - C10 | | >C10 - C12 | | >C12 - C16 | | >C16 - C21 | | >C21 - C35 | | >C8 - C40 | |
| **Sample ID** | **Client ID** | **Aliphatics** | **Aromatics** | **Aliphatics** | **Aromatics** | **Aliphatics** | **Aromatics** | **Aliphatics** | **Aromatics** | **Aliphatics** | **Aromatics** | **Aliphatics** | **Aromatics** |
| CL1893516 | WS10 0.40 | <5.18 | <5 | <5.18 | <5 | 11.7 | 42.4 | 18.7 | 405 | 59.3 | 942 | 101.5 | 1400 |
| CL1893517 | WS10 1.00 | <4.93 | <5 | <4.93 | <5 | 5.87 | 6.21 | 13.2 | 65.1 | 58.7 | 388 | 88.7 | 468 |
| | | | | | | | | | | | | | |
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Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105°C where appropriate, in accordance with the MCERTS standard.

## ASBESTOS ANALYSIS RESULTS

**SOCOTEC Asbestos Limited Certificate of Analysis for Asbestos in Soils, Sediments and Aggregates**

1089

**Detection limit of Method SCI-ASB-020 is 0.001%**

**Sampling has been carried out by a third party**

SOCOTEC

| | | | |
|---|---|---|---|
| **Client:** | SOCOTEC Environmental Chemistry | **Page 1 of 1** | |
| **Address:** | Etwall House, Bretby Business Park, Ashby Road, Burton upon Trent | **Report No:** | **ANO-0503-17521** |
| **For the attention of:** | RPS | **Report Date:** | **16/02/2018** |
| **Site Address:** | Project Chop | **Project Number:** | **S183018** |

| Sample Number | Sample Date | Sample Location & Matrix | Test Date | Total Sample Dry Weight (g) | Weight of <10mm Fraction (g) | Asbestos(g) in >10mm | Asbestos(g) in < 10mm | % Asbestos by weight of Total Dried Sample | Moisture Content | Asbestos Fibre Types Identified |
|---|---|---|---|---|---|---|---|---|---|---|
| CL/1893516 | 07/02/18 | WS10 0.40 Aggregate | 16/02/2018 | 1257.3 | 973.0 | | | Identification | | NAIIS |

**Keys**

**NAACR = Not Analysed at Clients Request**

**NAIIS = No Asbestos Identified in Sample (Identification Only)**

*** visible to naked eye**

**NADIS = No Asbestos Detected in Sample (ID & Quant Only)**

| | | |
|---|---|---|
| Name: | Rachel Howell | Authorised Signatory: |
| Position: | Lab Technician | |

The sample analysis for the above results was carried out using the procedures detailed in SOCOTEC Asbestos Limited in house method (SCI-ASB-020) based on EA document Quantification of asbestos in soil and associated materials - Draft 2017. Fibre identification was carried out using SOCOTEC Asbestos Limited in house method of transmitted/polarised light microscopy and centre stop dispersion staining (SCI-ASB-007), based on HSE's HSG 248. The analysis of the < 10mm fraction for asbestos content only includes ACMs and fibres and does not discriminate non-asbestos fibres. All fibres are assumed, unless specified, to be amphiboles. All tests were carried out at SOCOTEC Asbestos Laboratory, Ashbourne House, Bretby Business Park, Ashby Road, Burton-upon-Trent, Staffordshire. DE15 0YZ, UKAS Laboratory Number 1089.



Where individual results are flagged see report notes for status.

# Sample Analysis

# SOCOTEC UK Ltd Environmental Chemistry
# Analytical and Deviating Sample Overview

S183018M

**Customer** RPS
**Site** Project Chop
**Report No** S183018M

Consignment No S72417
Date Logged 09-Feb-2018
In-House Report Due 16-Feb-2018

Please note the results for any subcontracted analysis (identified with a '^') is likely to take up to an additional five working days.

| ID Number | Description | MethodID | CustServ | ICPBOR | ICPMSS | | | | | | | | | MCertS | ORGMAT | PAHMSUS | PCBECD | PHEHPLCUV | SFAPI | | Sub002 | SVOCSW | TMSS | TPHUSSI | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sampled | REPORT A | Boron (H20 Soluble) | Arsenic (MS) | Cadmium (MS) | Chromium (MS) | Copper (MS) | Lead (MS) | Mercury (MS) | Nickel (MS) | Selenium (MS) | Zinc (MS) | MCertS Analysis | Organic Matter % | PAH (16) by GCMS | PCB-7 Congeners Analysis | Phenols by HPLCUV | Cyanide(Total) (AR) | Thiocyanate(SCN)(AR) | ^Asbestos Screen & ID (Stage 1) | SVOC + TICs (AR) | Tot.Moisture @ 105C | TPH Ali Band >C10-C12 | TPH Ali Band >C12-C16 | TPH Ali Band >C16-C21 | TPH Ali Band >C21-C35 |
| | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| CL/1893516 | WS10 0.40 | 07/02/18 | | | | | | | | | | | | | | | | | | | | | | | | | |
| CL/1893517 | WS10 1.00 | 07/02/18 | | | | | | | | | | | | | | | | | | | | | | | | | |

**Note: We will endeavour to prioritise samples to complete analysis within holding time; however any delay could result in samples becoming deviant whilst being processed in the laboratory.**

**If sampling dates are missing or matrices unclassified then results will not be ISO 17025 accredited. Please contact us as soon as possible to provide missing information in order to reinstate accreditation.**

**Deviating Sample Key**

| | |
|---|---|
| A | The sample was received in an inappropriate container for this analysis |
| B | The sample was received without the correct preservation for this analysis |
| C | Headspace present in the sample container |
| D | The sampling date was not supplied so holding time may be compromised - applicable to all analysis |
| E | Sample processing did not commence within the appropriate holding time |
| F | Sample processing did not commence within the appropriate handling time |

**Requested Analysis Key**

| | |
|---|---|
| | Analysis Required |
| | Analysis dependant upon trigger result - **Note: due date may be affected if triggered** |
| | No analysis scheduled |
| ^ | Analysis Subcontracted - **Note: due date may vary** |



Where individual results are flagged see report notes for status.
The integrity of data for samples/analysis that have been categorised as Deviating may be compromised. Data may not be representative of the sample at the time of sampling.

# Sample Analysis

# SOCOTEC UK Ltd Environmental Chemistry
# Analytical and Deviating Sample Overview

S183018M

**Customer** RPS
**Site** Project Chop
**Report No** S183018M

Consignment No S72417
Date Logged 09-Feb-2018
In-House Report Due 16-Feb-2018

Please note the results for any subcontracted analysis (identified with a '^') is likely to take up to an additional five working days.

| ID Number | Description | MethodID | TPHUSSI | | | | | | | | | VOCHSAS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sampled | TPH Ali Band >C8-C10 | TPH Ali Band >C8-C40 | TPH Aro Band >C10-C12 | TPH Aro Band >C12-C16 | TPH Aro Band >C16-C21 | TPH Aro Band >C21-C35 | TPH Aro Band >C8-C10 | TPH Aro Band >C8-C40 | TPH by GCFID (AR/Si) | VOC HSA-GCMS |
| | | | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| CL/1893516 | WS10 0.40 | 07/02/18 | | | | | | | | | | |
| CL/1893517 | WS10 1.00 | 07/02/18 | | | | | | | | | | |

**Note: We will endeavour to prioritise samples to complete analysis within holding time; however any delay could result in samples becoming deviant whilst being processed in the laboratory.**

**If sampling dates are missing or matrices unclassified then results will not be ISO 17025 accredited. Please contact us as soon as possible to provide missing information in order to reinstate accreditation.**

| Deviating Sample Key | |
|---|---|
| A | The sample was received in an inappropriate container for this analysis |
| B | The sample was received without the correct preservation for this analysis |
| C | Headspace present in the sample container |
| D | The sampling date was not supplied so holding time may be compromised - applicable to all analysis |
| E | Sample processing did not commence within the appropriate holding time |
| F | Sample processing did not commence within the appropriate handling time |

| Requested Analysis Key | |
|---|---|
| | Analysis Required |
| | Analysis dependant upon trigger result - **Note: due date may be affected if triggered** |
| | No analysis scheduled |
| ^ | Analysis Subcontracted - **Note: due date may vary** |



Where individual results are flagged see report notes for status.
The integrity of data for samples/analysis that have been categorised as Deviating may be compromised. Data may not be representative of the sample at the time of sampling.

**Report Number : EFS/183018**

# Additional Report Notes

| Method Code | Sample ID | The following information should be taken into consideration when using the data contained within this report |
|---|---|---|
| VOCHSAS | CL1893516 | The Primary process control data associated with this Test has not wholly met the requirements of the Laboratory Quality Management System QMS with one or more target analytes falling outside acceptable limits. However the remaining data gives the Laboratory confidence that the test has performed satisfactorily and that the validity of the data may not have been significantly affected. However in line with our QMS policy we have removed accreditation, where applicable, from the affected analytes (Chloromethane) . These circumstances should be taken into consideration when utilising the data. |
| VOCHSAS | CL1893516 | The Secondary process control data associated with this Test has not wholly met the requirements of the Laboratory Quality Management System QMS with one or more target analytes falling outside acceptable limits. However the remaining data gives the Laboratory confidence that the test has performed satisfactorily (including the Primary Process Control) and that the validity of the data may not have been significantly affected. However in line with our QMS policy we have removed accreditation , where applicable, from the affected analytes (1,1-Dichloroethene, Bromomethane, Chloroethane, Trichlorofluoromethane, Vinyl Chloride) . These circumstances should be taken into consideration when utilising the data. |
| VOCHSAS | CL1893516 | Due to matrix interference, the Internal Standard recovery for this Test is below the required QMS specification. This has been confirmed by historic data. All other Laboratory Process Controls meet the requirements of the QMS unless otherwise stated. These circumstances should be taken into consideration when utilising the data. |
| VOCHSAS | CL1893516 | Due to matrix interference, the Surrogate (Dibromofluoromethane) recovery for this Test is below the required QMS specification. This has been confirmed by testing the pH of the sample which was above pH7.0. Surrogate is known to degrade in alkaline samples. All other Laboratory Process Controls meet the requirements of the QMS unless otherwise stated. These circumstances should be taken into consideration when utilising the data |
| PHEHPLCUV | CL1893516 | The Primary process control data associated with this Test has not wholly met the requirements of the Laboratory Quality Management System QMS with one or more target analytes falling outside acceptable limits. However the remaining data gives the Laboratory confidence that the test has performed satisfactorily and that the validity of the data may not have been significantly affected. However in line with our QMS policy we have removed accreditation, where applicable, from the affected analytes (Methylphenol) . These circumstances should be taken into consideration when utilising the data. |
| SVOCSW | CL1893516 | The Secondary process control data associated with this Test has not wholly met the requirements of the Laboratory Quality Management System QMS with one or more target analytes falling outside acceptable limits. However the remaining data gives the Laboratory confidence that the test has performed satisfactorily (including the Primary Process Control) and that the validity of the data may not have been significantly affected. However in line with our QMS policy we have removed accreditation , where applicable, from the affected analytes (bis(2-Chloroethyl)ether, Hexachloroethane, Dibenzofuran, 2,4-Dinitrotoluene, Diethylphthalate, Di-n-octylphthalate ) . These circumstances should be taken into consideration when utilising the data. |
| SVOCSW | CL1893516 | The matrix of this sample has been found to interfere with the result for this test. The sample has therefore been diluted to improve the signal to noise ratio but in doing so, the detection limit for this test has been elevated. |
| | | |
| | | |
| | | |
| | | |
| | | |

# Method Descriptions

| Matrix | MethodID | Analysis Basis | Method Description |
|---|---|---|---|
| Soil | ICPBOR | Oven Dried @ < 35°C | Determination of Boron in soil samples by hot water extraction followed by ICPOES detection |
| Soil | ICPMSS | Oven Dried @ < 35°C | Determination of Metals in Marine Sediments and Soil samples by aqua regia digestion followed by ICPMS detection |
| Soil | ORGMAT | Oven Dried @ < 35°C | Acid Dichromate oxidation of the sample followed by colorimetric analysis of the extract |
| Soil | PAHMSUS | As Received | Determination of Polycyclic Aromatic Hydrocarbons (PAH) by hexane/acetone extraction followed by GCMS detection |
| Soil | PCBECD | As Received | Determination of Polychlorinated Biphenyl (PCB) congeners/aroclors by hexane/acetone extraction followed by GCECD detection |
| Soil | PHEHPLCUV | As Received | Determination of Phenols by HPLC with UV Detection |
| Soil | SFAPI | As Received | Segmented flow analysis with colorimetric detection |
| Soil | SubCon* | * | Contact Laboratory for details of the methodology used by the sub-contractor. |
| Soil | SVOCSW | As Received | Determination of Semi-Volatile Organic Compounds by dichloromethane/acetone extraction followed by GCMS detection |
| Soil | TMSS | As Received | Determination of the Total Moisture content at 105ºC by loss on oven drying gravimetric analysis (% based upon wet weight) |
| Soil | TPHUSSI | As Received | Determination of hexane/acetone extractable Hydrocarbons in soil with GCFID detection including quantitation of Aromatic and Aliphatic fractions. |
| Soil | VOCHSAS | As Received | Determination of Volatile Organic Compounds (VOC) by Headspace GCMS |



Where individual results are flagged see report notes for status.

# Report Notes

## Generic Notes

**Soil/Solid Analysis**

Unless stated otherwise,
- Results expressed as mg/kg have been calculated on the basis indicated in the Method Description table.
  All results on MCERTS reports are reported on a 105ºC dry weight basis with the exception of pH and conductivity.
- Sulphate analysis not conducted in accordance with BS1377
- Water Soluble Sulphate is on a 2:1 water:soil extract

**Waters Analysis**

Unless stated otherwise results are expressed as mg/l

**Nil**: Where "Nil" has been entered against Total Alkalinity or Total Acidity this indicates that a measurement was not required due to the inherent pH of the sample.

**Oil analysis specific**

Unless stated otherwise,
- Results are expressed as mg/kg
- SG is expressed as g/cm$^3$@ 15$^o$C

**Gas (Tedlar bag) Analysis**

Unless stated otherwise, results are expressed as ug/l

**Asbestos Analysis**

**CH** Denotes Chrysotile **TR** Denotes Tremolite
**CR** Denotes Crocidolite **AC** Denotes Actinolite
**AM** Denotes Amosite **AN** Denotes Anthophylite
**NAIIS** No Asbestos Identified in Sample
**NADIS** No Asbestos Detected In Sample

## Symbol Reference

**^** Sub-contracted analysis.
**$$** Unable to analyse due to the nature of the sample
¶ Samples submitted for this analyte were not preserved on site in accordance with laboratory protocols. This may have resulted in deterioration of the sample(s) during transit to the laboratory. Consequently the reported data may not represent the concentration of the target analyte present in the sample at the time of sampling
**¥** Results for guidance only due to possible interference
**&** Blank corrected result
**I.S** Insufficient sample to complete requested analysis
**I.S(g)** Insufficient sample to re-analyse, results for guidance only
**Intf** Unable to analyse due to interferences
**N.D** Not determined **N.Det** Not detected
**N.F** No Flow
**NS** Information Not Supplied
**Req** Analysis requested, see attached sheets for results
**Þ** Raised detection limit due to nature of the sample
***** All accreditation has been removed by the laboratory for this result
‡ MCERTS accreditation has been removed for this result
§ accreditation has been removed for this result as it is a non-accredited matrix

**Note:** The Laboratory may only claim that data is accredited when all of the requirements of our Quality System have been met. Where these requirements have not been met the laboratory may elect to include the data in its final report and remove the accreditation from individual data items if it believes that the validity of the data has not been affected. If further details are required of the circumstances which have led to the removal of accreditation then please do not hesitate to contact the laboratory.

## Sample Descriptions

**Client :** RPS

**Site :** Project Chop

**Report Number :** S18_3018

Note: major constituent in upper case

| Lab ID Number | Client ID | Description |
|---|---|---|
| CL/1893516 | WS10 0.40 | Brown Gravel CLAY |
| CL/1893517 | WS10 1.00 | Brown Gravel SILT |

Our Ref: EXR/257819 (Ver. 1)
Your Ref: JER6108-CH

February 23, 2018

Environmental Chemistry
SOCOTEC UK Limited
Bretby Business Park
Ashby Road
Burton-on-Trent
Staffordshire
DE15 0YZ

Telephone: 01283 554400
Facsimile: 01283 554422

Adam Parker
RPS Group Plc
260 Park Avenue
Aztec West
Almondsbury
Bristol
BS32 4SY

For the attention of Adam Parker

Dear Adam Parker

**Sample Analysis - JER6108-CH Project Chop**

Samples from the above site have been analysed in accordance with the schedule supplied.
The sample details and the results of analyses for these samples are given in the appended report.

An invoice for this work will follow under a separate cover.

Please be aware that our policy for the retention of paper based laboratory records and analysis reports is 6 years.

The work was carried out in accordance with SOCOTEC UK Limited (Multi-Sector Services) Standard Terms and Conditions of Contract.

If I can be of any further assistance please do not hesitate to contact me.

Yours sincerely

for SOCOTEC UK Limited

J Chislett
Project Co-ordinator
01283 554458

# TEST REPORT

## Report No. EXR/257819 (Ver. 1)

RPS Group Plc
260 Park Avenue
Aztec West
Almondsbury
Bristol
BS32 4SY

**Site: JER6108-CH Project Chop**

The 5 samples described in this report were registered for analysis by SOCOTEC UK Limited on 16-Feb-2018. This report supersedes any versions previously issued by the laboratory.
The analysis was completed by: 23-Feb-2018

The following tables are contained in this report:

Table 1 Main Analysis Results (Pages 2 to 12)
Table of TPH (Si) banding (0.01) (Page 13)
Analytical and Deviating Sample Overview (Pages 14 to 15)
Table of Additional Report Notes (Page 16)
Table of Method Descriptions (Page 17)
Table of Report Notes (Page 18)
Table of Sample Descriptions (Appendix A Page 1 of 1)

On behalf of
SOCOTEC UK Lim
Tim Barnes
Operations Director
Energy & Waste Services

Date of Issue: 23-Feb-2018

Tests marked '^' have been subcontracted to another laboratory.
Where samples have been flagged as deviant on the Analytical and Deviating Sample Overview, for any reason, the data may not be representative of the sample at the point of sampling and the validity of the data may be affected.
SOCOTEC UK Limited accepts no responsibility for any sampling not carried out by our personnel.

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | **Units :** | µg/l | µg/l | µg/l | µg/l | µg/l | µg/l | µg/l | µg/l | µg/l | µg/l | µg/l | µg/l | µg/l | µg/l | ug/l | µg/l |
| | | **Method Codes :** | PAHMSW | PAHMSW | PAHMSW | PAHMSW | PAHMSW | PAHMSW | PAHMSW | PAHMSW | PAHMSW | PAHMSW | PAHMSW | PAHMSW | PAHMSW | VOCHSAW | VOCHSAW | VOCHSAW |
| | | **Method Reporting Limits :** | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.02 | 0.01 | 0.01 | 1 | 1 | 1 |
| **LAB ID Number EX/** | **Client Sample Description** | **Sample Date** | **Acenaphthene** | **Acenaphthylene** | **Anthracene** | **Benzo(a)anthracene** | **Benzo(b)fluoranthene** | **Benzo(k)fluoranthene** | **Benzo-a-Pyrene** | **Chrysene** | **Fluoranthene** | **Fluorene** | **Naphthalene** | **Phenanthrene** | **Pyrene** | **1,1,1,2-Tetrachloroethane** | **1,1,1-Trichloroethane** | **1,1,2-Trichloroethane** |
| 1864780 | WS01 | 14-Feb-18 | 0.07 | 0.02 | < 0.01 | < 0.01 | 0.01 | 0.01 | < 0.01 | < 0.01 | 0.01 | 0.02 | 0.19 | 0.04 | 0.01 | < 1.0 | < 1.0 | < 1.0 |
| 1864781 | WS04 | 14-Feb-18 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | 0.11 | < 0.01 | < 0.01 | < 1.0 | < 1.0 | < 1.0 |
| 1864782 | WS05 | 14-Feb-18 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | 0.01 | < 0.01 | 0.03 | 0.01 | 0.01 | < 1.0 | < 1.0 | < 1.0 |
| 1864783 | WS08 | 14-Feb-18 | < 0.01 | 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | 0.04 | 0.02 | 0.02 | < 1.0 | < 1.0 | < 1.0 |
| 1864784 | WS10 | 14-Feb-18 | 2.87 | 0.11 | 0.45 | 0.55 | 0.71 | 0.28 | 0.61 | 0.55 | 1.30 | 1.56 | 5.58 | 2.50 | 1.12 | < 1.0 | < 1.0 | < 1.0 |


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| | |
|---|---|
| **Client Name** | **RPS Group Plc** |
| **Contact** | Adam Parker |

# JER6108-CH Project Chop

## Sample Analysis

| | |
|---|---|
| **Date Printed** | **23-Feb-2018** |
| **Report Number** | **EXR/257819** |
| **Table Number** | **1** |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Units :** | | | ug/l | µg/l | µg/l | ug/l | µg/l | ug/l | ug/l | µg/l | ug/l | ug/l | µg/l | ug/l | ug/l | µg/l | ug/l | ug/l |
| **Method Codes :** | | | VOCHSAW | VOCHSAW | VOCHSAW | VOCHSAW | VOCHSAW | VOCHSAW | VOCHSAW | VOCHSAW | VOCHSAW | VOCHSAW | VOCHSAW | VOCHSAW | VOCHSAW | VOCHSAW | VOCHSAW | VOCHSAW |
| **Method Reporting Limits :** | | | 1 | 1 | 1 | 1 | 1 | 5 | 1 | 1 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| **LAB ID Number EX/** | **Client Sample Description** | **Sample Date** | **1,1-Dichloroethane** | **1,1-Dichloroethene** | **1,1-Dichloropropene** | **1,2,3-Trichlorobenzene** | **1,2,3-Trichloropropane** | **1,2,4-Trichlorobenzene** | **1,2,4-Trimethylbenzene** | **1,2-Dibromoethane** | **1,2-Dichlorobenzene** | **1,2-Dichloroethane** | **1,2-Dichloropropane** | **1,3,5-Trimethylbenzene** | **1,3-Dichlorobenzene** | **1,3-Dichloropropane** | **1,4-Dichlorobenzene** | **2- Chlorotoluene** |
| 1864780 | WS01 | **14-Feb-18** | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 5.0 | < 1.0 | < 1.0 | < 5.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| 1864781 | WS04 | **14-Feb-18** | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 5.0 | < 1.0 | < 1.0 | < 5.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| 1864782 | WS05 | **14-Feb-18** | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 5.0 | < 1.0 | < 1.0 | < 5.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| 1864783 | WS08 | **14-Feb-18** | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 5.0 | < 1.0 | < 1.0 | < 5.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| 1864784 | WS10 | **14-Feb-18** | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 5.0 | < 1.0 | < 1.0 | < 5.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |


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**Client Name** RPS Group Plc

**Contact** Adam Parker

# JER6108-CH Project Chop

## Sample Analysis

| | |
|---|---|
| **Date Printed** | **23-Feb-2018** |
| **Report Number** | **EXR/257819** |
| **Table Number** | **1** |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Units :** | | | µg/l | µg/l | µg/l | µg/l | ug/l | ug/l | ug/l | ug/l | ug/l | ug/l | ug/l | ug/l | ug/l | µg/l | µg/l | ug/l |
| **Method Codes :** | | | VOCHSAW | VOCHSAW | VOCHSAW | VOCHSAW | VOCHSAW | VOCHSAW | VOCHSAW | VOCHSAW | VOCHSAW | VOCHSAW | VOCHSAW | VOCHSAW | VOCHSAW | VOCHSAW | VOCHSAW | VOCHSAW |
| **Method Reporting Limits :** | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 5 |
| **LAB ID Number EX/** | **Client Sample Description** | **Sample Date** | **4-Chlorotoluene** | **Benzene** | **Bromobenzene** | **Bromochloromethane** | **Bromodichloromethane** | **Bromoform** | **Carbon Tetrachloride** | **Chlorobenzene** | **Chloroethane** | **Chloroform** | **Chloromethane** | **Cis-1,2-dichloroethene** | **Dibromochloromethane** | **Dibromomethane** | **Ethylbenzene** | **Hexachlorobutadiene** |
| 1864780 | WS01 | 14-Feb-18 | < 1.0 | < 1.0* | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 5.0 |
| 1864781 | WS04 | 14-Feb-18 | < 1.0 | < 1.0* | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 5.0 |
| 1864782 | WS05 | 14-Feb-18 | < 1.0 | < 1.0* | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 5.0 |
| 1864783 | WS08 | 14-Feb-18 | < 1.0 | < 1.0* | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 5.0 |
| 1864784 | WS10 | 14-Feb-18 | < 1.0 | < 1.0* | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 5.0 |


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**Client Name** RPS Group Plc

**Contact** Adam Parker

# JER6108-CH Project Chop

## Sample Analysis

| | |
|---|---|
| **Date Printed** | **23-Feb-2018** |
| **Report Number** | **EXR/257819** |
| **Table Number** | **1** |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Units :** | | | ug/l | µg/l | µg/l | µg/l | ug/l | µg/l | µg/l | ug/l | µg/l | ug/l | µg/l | ug/l | ug/l | µg/l | µg/l | pH units |
| **Method Codes :** | | | VOCHSAW | VOCHSAW | VOCHSAW | VOCHSAW | VOCHSAW | VOCHSAW | VOCHSAW | VOCHSAW | VOCHSAW | VOCHSAW | VOCHSAW | VOCHSAW | VOCHSAW | VOCHSAW | VOCHSAW | WSLM3 |
| **Method Reporting Limits :** | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| **LAB ID Number EX/** | **Client Sample Description** | **Sample Date** | **Isopropylbenzene** | **m and p-Xylene** | **n-Butylbenzene** | **o-Xylene** | **p-Isopropyltoluene** | **Propylbenzene** | **sec-Butylbenzene** | **Styrene** | **tert-Butylbenzene** | **Tetrachloroethene** | **Toluene** | **Trans 1,2 Dichloroethene** | **Trichloroethene** | **Trichlorofluoromethane** | **Vinyl Chloride** | **pH units w** |
| 1864780 | WS01 | **14-Feb-18** | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | |
| 1864781 | WS04 | **14-Feb-18** | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | 40.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | 7.1 |
| 1864782 | WS05 | **14-Feb-18** | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | |
| 1864783 | WS08 | **14-Feb-18** | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | 7.2 |
| 1864784 | WS10 | **14-Feb-18** | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | 30.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | 7.5 |


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| | |
|---|---|
| **Client Name** | **RPS Group Plc** |
| **Contact** | Adam Parker |

# JER6108-CH Project Chop

## Sample Analysis

| | |
|---|---|
| **Date Printed** | **23-Feb-2018** |
| **Report Number** | **EXR/257819** |
| **Table Number** | **1** |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Units :** | | | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l |
| **Method Codes :** | | | KONENS | ICPWATVAR | ICPMSW | ICPMSW | ICPMSW | ICPMSW | ICPMSW | ICPMSW | ICPMSW | ICPMSW | ICPMSW | ICPMSW | ICPMSW | ICPMSW | ICPMSW | ICPMSW |
| **Method Reporting Limits :** | | | 1 | 3 | 0.001 | 0.001 | 0.0001 | 0.001 | 0.001 | 0.002 | 0.002 | 0.001 | 0.0001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| **LAB ID Number EX/** | **Client Sample Description** | **Sample Date** | **Chloride as Cl w** | **Total Sulphur as SO4 (Dissolved) a** | **Nickel as Ni (Dissolved)** | **Chromium as Cr (Dissolved)** | **Cadmium as Cd (Dissolved)** | **Copper as Cu (Dissolved)** | **Lead as Pb (Dissolved)** | **Zinc as Zn (Dissolved)** | **Manganese as Mn (Dissolved)** | **Arsenic as As (Dissolved)** | **Mercury as Hg (Dissolved)** | **Selenium as Se (Dissolved)** | **Vanadium as V (Dissolved)** | **Molybdenum as Mo (Dissolved)** | **Cobalt as Co (Dissolved)** | **Tin as Sn (Dissolved)** |
| 1864780 | WS01 | 14-Feb-18 | | | 0.011 | 0.001 | 0.0001 | 0.002 | <0.001 | 0.012 | 5.901 | 0.001 | <0.0001 | <0.001 | <0.001 | 0.003 | 0.006 | <0.001 |
| 1864781 | WS04 | 14-Feb-18 | 78 | 179 | 0.022 | 0.001 | 0.0002 | 0.002 | <0.001 | 0.011 | 6.341 | 0.002 | <0.0001 | 0.003 | <0.001 | 0.005 | 0.012 | <0.001 |
| 1864782 | WS05 | 14-Feb-18 | | | 0.004 | <0.001 | 0.0003 | 0.006 | <0.001 | 0.058 | 0.296 | <0.001 | <0.0001 | <0.001 | <0.001 | 0.004 | 0.002 | <0.001 |
| 1864783 | WS08 | 14-Feb-18 | 288 | 628 | 0.008 | 0.002 | 0.0002 | 0.004 | 0.001 | 0.022 | 0.687 | 0.004 | <0.0001 | 0.01 | 0.001 | 0.002 | 0.003 | <0.001 |
| 1864784 | WS10 | 14-Feb-18 | 105 | 30 | 0.005 | 0.002 | <0.0001 | <0.001 | <0.001 | <0.002 | 1.492 | 0.005 | <0.0001 | 0.002 | 0.003 | 0.031 | 0.007 | <0.001 |


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|---|---|
| **Client Name** | **RPS Group Plc** |
| **Contact** | Adam Parker |

# JER6108-CH Project Chop

## Sample Analysis

| | |
|---|---|
| **Date Printed** | **23-Feb-2018** |
| **Report Number** | **EXR/257819** |
| **Table Number** | **1** |



Where individual results are flagged see report notes for status.

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Units :** | | | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | µg/l | µg/l | µg/l | µg/l | µg/l | µg/l | µg/l | µg/l | µg/l |
| **Method Codes :** | | | ICPMSW | ICPMSW | KONENS | SFAPI | SFAPI | TPHFID-Si | ICPMSW | PAHMSW | PAHMSW | PAHMSW | PAHMSW | PCBCONEC | PCBCONEC | PCBCONEC | PCBCONEC | PCBCONEC |
| **Method Reporting Limits :** | | | 0.001 | 0.001 | 0.01 | 0.02 | 0.02 | 0.01 | 0.001 | 0.01 | 0.01 | 0.01 | 0.17 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| **LAB ID Number EX/** | **Client Sample Description** | **Sample Date** | **Thallium as Tl (Dissolved)** | **Antimony as Sb (Dissolved)** | **Ammoniacal Nitrogen as N** | **Cyanide (Free) as CN** | **Cyanide (Total) as CN** | **TPH by GC(Si) o** | **Uranium as U (Dissolved)** | **Benzo(ghi)perylene** | **Dibenzo(a,h)anthracene** | **Indeno(1,2,3-cd)pyrene** | **Total PAH (Sum of USEPA 16)** | **PCB101** | **PCB118** | **PCB138** | **PCB153** | **PCB180** |
| 1864780 | WS01 | 14-Feb-18 | <0.001 | <0.001 | | | | Req | 0.002 | 0.02 | < 0.01 | 0.02 | < 0.29 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| 1864781 | WS04 | 14-Feb-18 | <0.001 | 0.001 | 1.4 | <0.02 | <0.02 | Req | 0.004 | 0.01 | < 0.01 | < 0.01 | < 0.17 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| 1864782 | WS05 | 14-Feb-18 | <0.001 | 0.007 | | | | Req | <0.001 | 0.01 | < 0.01 | < 0.01 | < 0.17 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| 1864783 | WS08 | 14-Feb-18 | <0.001 | 0.009 | 0.3 | <0.02 | <0.02 | Req | 0.006 | 0.01 | < 0.01 | < 0.01 | < 0.17 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| 1864784 | WS10 | 14-Feb-18 | <0.001 | 0.003 | 6.4 | <0.02 | <0.02 | Req | 0.003 | 0.35 | 0.08 | 0.39 | 13.4 | <0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |


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| | |
|---|---|
| **Client Name** | **RPS Group Plc** |
| **Contact** | Adam Parker |

# JER6108-CH Project Chop

## Sample Analysis

| | |
|---|---|
| **Date Printed** | **23-Feb-2018** |
| **Report Number** | **EXR/257819** |
| **Table Number** | **1** |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Units :** | | | µg/l | µg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l |
| **Method Codes :** | | | PCBCONEC | PCBCONEC | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW |
| **Method Reporting Limits :** | | | 0.01 | 0.01 | 0.005 | 0.005 | 0.005 | 0.005 | 0.002 | 0.02 | 0.02 | 0.02 | 0.02 | 0.01 | 0.005 | 0.005 | 0.002 | 0.02 |
| **LAB ID Number EX/** | **Client Sample Description** | **Sample Date** | **PCB28** | **PCB52** | **1,2,4-Trichlorobenzene** | **1,2-Dichlorobenzene** | **1,3-Dichlorobenzene** | **1,4-Dichlorobenzene** | **1-Methylnaphthalene** | **2,4,5-Trichlorophenol** | **2,4,6 - Trichlorophenol** | **2,4-Dichlorophenol** | **2,4-Dimethylphenol** | **2,4-Dinitrophenol** | **2,4-Dinitrotoluene** | **2,6 Dinitrotoluene** | **2-Chloronaphthalene** | **2-Chlorophenol** |
| 1864780 | WS01 | 14-Feb-18 | < 0.01 | < 0.01 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.002 | < 0.020 | < 0.020 | < 0.020 | < 0.020 | < 0.010 | < 0.005 | < 0.005 | < 0.002 | < 0.020 |
| 1864781 | WS04 | 14-Feb-18 | < 0.01 | < 0.01 | < 0.010 | < 0.010 | < 0.010 | < 0.010 | < 0.004 | < 0.040 | < 0.040 | < 0.040 | < 0.040 | < 0.020 | < 0.010 | < 0.010 | < 0.004 | < 0.040 |
| 1864782 | WS05 | 14-Feb-18 | < 0.01 | < 0.01 | < 0.020 | < 0.020 | < 0.020 | < 0.020 | < 0.008 | < 0.080 | < 0.080 | < 0.080 | < 0.080 | < 0.040 | < 0.020 | < 0.020 | < 0.008 | < 0.080 |
| 1864783 | WS08 | 14-Feb-18 | < 0.01 | < 0.01 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.002 | < 0.020 | < 0.020 | < 0.020 | < 0.020 | < 0.010 | < 0.005 | < 0.005 | < 0.002 | < 0.020 |
| 1864784 | WS10 | 14-Feb-18 | < 0.01 | < 0.01 | < 0.020 | < 0.020 | < 0.020 | < 0.020 | < 0.008 | < 0.080 | < 0.080 | < 0.080 | < 0.080 | < 0.040 | < 0.020 | < 0.020 | < 0.008 | < 0.080 |


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|---|---|
| **Client Name** | **RPS Group Plc** |
| **Contact** | Adam Parker |

# JER6108-CH Project Chop

## Sample Analysis

| | |
|---|---|
| **Date Printed** | **23-Feb-2018** |
| **Report Number** | **EXR/257819** |
| **Table Number** | **1** |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Units :** | | | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l |
| **Method Codes :** | | | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW |
| **Method Reporting Limits :** | | | 0.002 | 0.005 | 0.005 | 0.02 | 0.02 | 0.005 | 0.05 | 0.005 | 0.005 | 0.005 | 0.02 | 0.005 | 0.005 | 0.05 | 0.002 | 0.002 |
| **LAB ID Number EX/** | **Client Sample Description** | **Sample Date** | **2-Methylnaphthalene** | **2-Methylphenol** | **2-Nitroaniline** | **2-Nitrophenol** | **3+4-Methylphenol** | **3-Nitroaniline** | **4,6-Dinitro-2-methylphenol** | **4-Bromophenyl-phenylether** | **4-Chloro-3-methylphenol** | **4-Chloroaniline** | **4-Chlorophenol** | **4-Chlorophenyl-phenylether** | **4-Nitroaniline** | **4-Nitrophenol** | **Acenaphthene** | **Acenaphthylene** |
| 1864780 | WS01 | 14-Feb-18 | < 0.002 | < 0.005 | < 0.005 | < 0.020 | < 0.020 | < 0.005 | < 0.050 | < 0.005 | < 0.005 | < 0.005 | < 0.020 | < 0.005 | < 0.005 | < 0.050 | < 0.002 | < 0.002 |
| 1864781 | WS04 | 14-Feb-18 | < 0.004 | < 0.010 | < 0.010 | < 0.040 | < 0.040 | < 0.010 | < 0.100 | < 0.010 | < 0.010 | < 0.010 | < 0.040 | < 0.010 | < 0.010 | < 0.100 | < 0.004 | < 0.004 |
| 1864782 | WS05 | 14-Feb-18 | < 0.008 | < 0.020 | < 0.020 | < 0.080 | < 0.080 | < 0.020 | < 0.200 | < 0.020 | < 0.020 | < 0.020 | < 0.080 | < 0.020 | < 0.020 | < 0.200 | < 0.008 | < 0.008 |
| 1864783 | WS08 | 14-Feb-18 | < 0.002 | < 0.005 | < 0.005 | < 0.020 | < 0.020 | < 0.005 | < 0.050 | < 0.005 | < 0.005 | < 0.005 | < 0.020 | < 0.005 | < 0.005 | < 0.050 | < 0.002 | < 0.002 |
| 1864784 | WS10 | 14-Feb-18 | < 0.008 | < 0.020 | < 0.020 | < 0.080 | < 0.080 | < 0.020 | < 0.200 | < 0.020 | < 0.020 | < 0.020 | < 0.080 | < 0.020 | < 0.020 | < 0.200 | < 0.008 | < 0.008 |


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**Client Name** RPS Group Plc

**Contact** Adam Parker

# JER6108-CH Project Chop

## Sample Analysis

| | |
|---|---|
| **Date Printed** | **23-Feb-2018** |
| **Report Number** | **EXR/257819** |
| **Table Number** | **1** |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Units :** | | | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l |
| **Method Codes :** | | | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW |
| **Method Reporting Limits :** | | | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.1 | 0.005 | 0.002 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.002 | 0.05 |
| **LAB ID Number EX/** | **Client Sample Description** | **Sample Date** | **Anthracene** | **Benzo[a]anthracene** | **Benzo[a]pyrene** | **Benzo[b]fluoranthene** | **Benzo[g,h,i]perylene** | **Benzo[k]fluoranthene** | **Benzoic Acid** | **Benzyl alcohol** | **Biphenyl** | **bis(2-Chloroethoxy)methane** | **bis(2-Chloroethyl)ether** | **bis(2-Chloroisopropyl)ether** | **bis(2-Ethylhexyl)phthalate** | **Butylbenzylphthalate** | **Chrysene** | **Coronene** |
| 1864780 | WS01 | **14-Feb-18** | < 0.002 | < 0.002 | < 0.002 | < 0.002 | < 0.002 | < 0.002 | < 0.100 | < 0.005 | < 0.002 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.002 | < 0.050 |
| 1864781 | WS04 | **14-Feb-18** | < 0.004 | < 0.004 | < 0.004 | < 0.004 | < 0.004 | < 0.004 | < 0.200 | < 0.010 | < 0.004 | < 0.010 | < 0.010 | < 0.010 | < 0.010 | < 0.010 | < 0.004 | < 0.100 |
| 1864782 | WS05 | **14-Feb-18** | < 0.008 | < 0.008 | < 0.008 | < 0.008 | < 0.008 | < 0.008 | < 0.400 | < 0.020 | < 0.008 | < 0.020 | < 0.020 | < 0.020 | < 0.020 | < 0.020 | < 0.008 | < 0.200 |
| 1864783 | WS08 | **14-Feb-18** | < 0.002 | < 0.002 | < 0.002 | < 0.002 | < 0.002 | < 0.002 | < 0.100 | < 0.005 | < 0.002 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.002 | < 0.050 |
| 1864784 | WS10 | **14-Feb-18** | < 0.008 | < 0.008 | < 0.008 | < 0.008 | < 0.008 | < 0.008 | < 0.400 | < 0.020 | < 0.008 | < 0.020 | < 0.020 | < 0.020 | < 0.020 | < 0.020 | < 0.008 | < 0.200 |
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|---|---|
| **Client Name** | **RPS Group Plc** |
| **Contact** | Adam Parker |

# JER6108-CH Project Chop

## Sample Analysis

| | |
|---|---|
| **Date Printed** | **23-Feb-2018** |
| **Report Number** | **EXR/257819** |
| **Table Number** | **1** |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Units :** | | | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l |
| **Method Codes :** | | | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW |
| **Method Reporting Limits :** | | | 0.002 | 0.005 | 0.005 | 0.005 | 0.005 | 0.002 | 0.002 | 0.002 | 0.002 | 0.005 | 0.005 | 0.005 | 0.005 | 0.002 | 0.005 | 0.002 |
| **LAB ID Number EX/** | **Client Sample Description** | **Sample Date** | **Dibenzo[a,h]anthracene** | **Dibenzofuran** | **Diethylphthalate** | **Dimethylphthalate** | **Di-n-butylphthalate** | **Di-n-octylphthalate** | **Diphenyl Ether** | **Fluoranthene** | **Fluorene** | **Hexachlorobenzene** | **Hexachlorobutadiene** | **Hexachlorocyclopentadiene** | **Hexachloroethane** | **Indeno[1,2,3-cd]pyrene** | **Isophorone** | **Naphthalene** |
| 1864780 | WS01 | 14-Feb-18 | < 0.002 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.002 | < 0.002 | < 0.002 | < 0.002 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.002 | < 0.005 | < 0.002 |
| 1864781 | WS04 | 14-Feb-18 | < 0.004 | < 0.010 | < 0.010 | < 0.010 | < 0.010 | < 0.004 | < 0.004 | < 0.004 | < 0.004 | < 0.010 | < 0.010 | < 0.010 | < 0.010 | < 0.004 | < 0.010 | < 0.004 |
| 1864782 | WS05 | 14-Feb-18 | < 0.008 | < 0.020 | < 0.020 | < 0.020 | < 0.020 | < 0.008 | < 0.008 | < 0.008 | < 0.008 | < 0.020 | < 0.020 | < 0.020 | < 0.020 | < 0.008 | < 0.020 | < 0.008 |
| 1864783 | WS08 | 14-Feb-18 | < 0.002 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.002 | < 0.002 | < 0.002 | < 0.002 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.002 | < 0.005 | < 0.002 |
| 1864784 | WS10 | 14-Feb-18 | < 0.008 | < 0.020 | < 0.020 | < 0.020 | < 0.020 | < 0.008 | < 0.008 | < 0.008 | < 0.008 | < 0.020 | < 0.020 | < 0.020 | < 0.020 | < 0.008 | < 0.020 | 0.010 |

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| | |
|---|---|
| **Client Name** | **RPS Group Plc** |
| **Contact** | Adam Parker |

# JER6108-CH Project Chop

## Sample Analysis

| | |
|---|---|
| **Date Printed** | **23-Feb-2018** |
| **Report Number** | **EXR/257819** |
| **Table Number** | **1** |



Where individual results are flagged see report notes for status.

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Units :** | | | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | µg/l | µg/l | µg/l | ug/l | µg/l | ug/l | ug/l | µg/l | |
| **Method Codes :** | | | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | SVOCSW | VOCHSAW | VOCHSAW | VOCHSAW | VOCHSAW | VOCHSAW | VOCHSAW | VOCHSAW | VOCHSAW | |
| **Method Reporting Limits :** | | | 0.005 | 0.005 | 0.005 | 0.05 | 0.002 | 0.02 | 0.002 | 1 | 5 | 1 | 1 | 1 | 1 | 5 | 1 | |
| **LAB ID Number EX/** | **Client Sample Description** | **Sample Date** | **Nitrobenzene** | **N-Nitroso-di-n-propylamine** | **n-Nitrosodiphenylamine** | **Pentachlorophenol** | **Phenanthrene** | **Phenol** | **Pyrene** | **1,1,2,2-Tetrachloroethane** | **1,2-Dibromo-3-chloropropane** | **2,2-Dichloropropane** | **Bromomethane** | **cis 1,3-Dichloropropene** | **Dichlorodifluoromethane** | **Naphthalene** | **trans 1,3-Dichloropropene** | |
| 1864780 | WS01 | **14-Feb-18** | < 0.005 | < 0.005 | < 0.005 | < 0.050 | < 0.002 | < 0.020 | < 0.002 | < 1.0 | < 5.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 5.0* | < 1.0 | |
| 1864781 | WS04 | **14-Feb-18** | < 0.010 | < 0.010 | < 0.010 | < 0.100 | < 0.004 | < 0.040 | < 0.004 | < 1.0 | < 5.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 5.0* | < 1.0 | |
| 1864782 | WS05 | **14-Feb-18** | < 0.020 | < 0.020 | < 0.020 | < 0.200 | < 0.008 | < 0.080 | < 0.008 | < 1.0 | < 5.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 5.0* | < 1.0 | |
| 1864783 | WS08 | **14-Feb-18** | < 0.005 | < 0.005 | < 0.005 | < 0.050 | < 0.002 | < 0.020 | < 0.002 | < 1.0 | < 5.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 5.0* | < 1.0 | |
| 1864784 | WS10 | **14-Feb-18** | < 0.020 | < 0.020 | < 0.020 | < 0.200 | < 0.008 | < 0.080 | < 0.008 | < 1.0 | < 5.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | 11.0* | < 1.0 | |


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**Client Name** RPS Group Plc

**Contact** Adam Parker

# JER6108-CH Project Chop

## Sample Analysis

| | |
|---|---|
| **Date Printed** | **23-Feb-2018** |
| **Report Number** | **EXR/257819** |
| **Table Number** | **1** |

# ALIPHATIC / AROMATIC FRACTION BY GC/FID

**Customer and Site Details:** RPS Group Plc : JER6108-CH Project Chop
**Job Number:** W25_7819
**QC Batch Number:** 180130
**Directory:** D:\TES\DATA\2018\022218\022218 2018-02-22 14-26-34\F-034-28-EX1864784ARO.D
**Method:** Bottle

**Separation:** Silica gel
**Eluents:** Hexane, DCM

**Matrix:** Water
**Date Booked ir** 16-Feb-18
**Date Extracted** 21-Feb-18
**Date Analysed** 22-Feb-18, 20:48:21

*** This sample data is not UKAS accredited.**

| | | Concentration, (mg/l) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | >C8 - C10 | | >C10 - C12 | | >C12 - C16 | | >C16 - C21 | | >C21 - C35 | | >C8 - C40 | |
| Sample ID | Client ID | Aliphatics | Aromatics | Aliphatics | Aromatics | Aliphatics | Aromatics | Aliphatics | Aromatics | Aliphatics | Aromatics | Aliphatics | Aromatics |
| * EX1864780 | WS01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.013 |
| * EX1864781 | WS04 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.034 | 0.01 | 0.041 | 0.017 |
| * EX1864782 | WS05 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.017 | <0.01 |
| * EX1864783 | WS08 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.019 | <0.01 |
| * EX1864784 | WS10 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.015 | <0.01 | 0.015 | 0.032 | 0.032 | 0.037 | 0.075 |

Where individual results are flagged see report notes for status.

# Sample Analysis

# SOCOTEC UK Ltd Environmental Chemistry
# Analytical and Deviating Sample Overview

**W257819**

**Customer** RPS Group Plc
**Site** JER6108-CH Project Chop
**Report No** W257819

Consignment No W133249
Date Logged 16-Feb-2018
In-House Report Due 23-Feb-2018

Please note the results for any subcontracted analysis (identified with a '^') is likely to take up to an additional five working days.

| ID Number | Description | Matrix Type | Sampled | MethodID | CUSTSERV | ICPMSW | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Report A | Nickel as Ni MS (Dissolved) | Chromium as Cr MS (Dissolved) | Cadmium as Cd MS (Dissolved) | Copper as Cu MS (Dissolved) | Lead as Pb MS (Dissolved) | Zinc as Zn MS (Dissolved) | Manganese as Mn MS (Dissolved) | Arsenic as As MS (Dissolved) | Mercury as Hg MS (Dissolved) | Selenium as Se MS (Dissolved) | Vanadium as V MS (Dissolved) | Molybdenum as Mo MS (Dissolved) | Cobalt as Co MS (Dissolved) | Tin as Sn MS (Dissolved) | Thallium as Tl MS (Dissolved) | Antimony as Sb MS (Dissolved) | Uranium as U MS (Dissolved) |
| EX/1864780 | WS01 | Unclassified | 14/02/18 | | | | | | | | | | | | | | | | | | | |
| EX/1864781 | WS04 | Unclassified | 14/02/18 | | | | | | | | | | | | | | | | | | | |
| EX/1864782 | WS05 | Unclassified | 14/02/18 | | | | | | | | | | | | | | | | | | | |
| EX/1864783 | WS08 | Unclassified | 14/02/18 | | | | | | | | | | | | | | | | | | | |
| EX/1864784 | WS10 | Unclassified | 14/02/18 | | | | | | | | | | | | | | | | | | | |

**Note: We will endeavour to prioritise samples to complete analysis within holding time; however any delay could result in samples becoming deviant whilst being processed in the laboratory.**

**If sampling dates are missing or matrices unclassified then results will not be ISO 17025 accredited. Please contact us as soon as possible to provide missing information in order to reinstate accreditation.**

| **Deviating Sample Key** | |
|---|---|
| A | The sample was received in an inappropriate container for this analysis |
| B | The sample was received without the correct preservation for this analysis |
| C | Headspace present in the sample container |
| D | The sampling date was not supplied so holding time may be compromised - applicable to all analysis |
| E | Sample processing did not commence within the appropriate holding time |
| F | Sample processing did not commence within the appropriate handling time |

| **Requested Analysis Key** | |
|---|---|
| | Analysis Required |
| | Analysis dependant upon trigger result - **Note: due date may be affected if triggered** |
| | No analysis scheduled |
| ^ | Analysis Subcontracted - **Note: due date may vary** |

The integrity of data for samples/analysis that have been categorised as Deviating may be compromised. Data may not be representative of the sample at the time of sampling.
Where individual results are flagged see report notes for status.

# Sample Analysis

# SOCOTEC UK Ltd Environmental Chemistry
# Analytical and Deviating Sample Overview

**W257819**

**Customer** **RPS Group Plc**
**Site** **JER6108-CH Project Chop**
**Report No** **W257819**

Consignment No W133249
Date Logged 16-Feb-2018
In-House Report Due 23-Feb-2018

Please note the results for any subcontracted analysis (identified with a '^') is likely to take up to an additional five working days.

| ID Number | Description | Matrix Type | Sampled | ICPWATVAR Total Sulphur as SO4 (Diss) VAR | KONENS Chloride as Cl (Kone) | KONENS Ammoniacal Nitrogen (Kone) | PAHMSW PAH GC-MS (16) | PCBCONEC PCB - 7 Congeners | SFAPI Cyanide (Free) as CN SFA | SFAPI Cyanide (Total) as CN SFA | SVOCSW SVOC | TPHFID-Si TPH by GC(Si) | VOCHSAW VOC HSA-GCMS | WSLM3 pH units |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MethodID | | | | | | | | | | | | |
| EX/1864780 | WS01 | Unclassified | 14/02/18 | | | | | | | | | | | |
| EX/1864781 | WS04 | Unclassified | 14/02/18 | | E | E | | | B | B | | | | |
| EX/1864782 | WS05 | Unclassified | 14/02/18 | | | | | | | | | | | |
| EX/1864783 | WS08 | Unclassified | 14/02/18 | | E | E | | | B | B | | | | |
| EX/1864784 | WS10 | Unclassified | 14/02/18 | | E | E | | | B | B | | | | |

**Note: We will endeavour to prioritise samples to complete analysis within holding time; however any delay could result in samples becoming deviant whilst being processed in the laboratory.**

**If sampling dates are missing or matrices unclassified then results will not be ISO 17025 accredited. Please contact us as soon as possible to provide missing information in order to reinstate accreditation.**

| Deviating Sample Key | |
|---|---|
| A | The sample was received in an inappropriate container for this analysis |
| B | The sample was received without the correct preservation for this analysis |
| C | Headspace present in the sample container |
| D | The sampling date was not supplied so holding time may be compromised - applicable to all analysis |
| E | Sample processing did not commence within the appropriate holding time |
| F | Sample processing did not commence within the appropriate handling time |

| Requested Analysis Key | |
|---|---|
| | Analysis Required |
| | Analysis dependant upon trigger result - **Note: due date may be affected if triggered** |
| | No analysis scheduled |
| ^ | Analysis Subcontracted - **Note: due date may vary** |

The integrity of data for samples/analysis that have been categorised as Deviating may be compromised. Data may not be representative of the sample at the time of sampling.
Where individual results are flagged see report notes for status.

**Report Number : W/EXR/257819**

# Additional Report Notes

| Method Code | Sample ID | The following information should be taken into consideration when using the data contained within this report |
|---|---|---|
| VOCHSAW | EX1864780 TO EX1864784 | The Primary process control data associated with this Test has not wholly met the requirements of the Laboratory Quality Management System QMS with one or more target analytes falling outside acceptable limits. However the remaining data gives the Laboratory confidence that the test has performed satisfactorily and that the validity of the data may not have been significantly affected. However in line with our QMS policy we have removed accreditation, where applicable, from the affected analytes (Benzene, Naphthalene) . These circumstances should be taken into consideration when utilising the data. |
| SVOCSW | EX1864781, 82, 84 | The matrix of this sample has been found to interfere with the result for this test. The sample has therefore been diluted to improve the signal to noise ratio but in doing so, the detection limit for this test has been elevated. |
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# Method Descriptions

| Matrix | MethodID | Analysis Basis | Method Description |
|---|---|---|---|
| Water | ICPMSW | As Received | Direct quantitative determination of Metals in water samples using ICPMS |
| Water | ICPWATVAR | As Received | Direct determination of Metals and Sulphate in water samples using ICPOES |
| Water | KONENS | As Received | Direct analysis using discrete colorimetric analysis |
| Water | PAHMSW | As Received | Determination of PolyAromatic Hydrocarbons in water by pentane extraction GCMS quantitation |
| Water | PCBCONEC | As Received | Determination of Polychlorinated Biphenyl (PCB) congeners by pentane extraction followed by GCECD detection |
| Water | SFAPI | As Received | Segmented flow analysis with colorimetric detection |
| Water | SVOCSW | As Received | Determination of Semi Volatile Organic Compounds (SVOC) by DCM extraction followed by GCMS detection |
| Water | TPHFID-Si | As Received | Determination of speciated pentane extractable hydrocarbons in water by GCFID |
| Water | VOCHSAW | As Received | Determination of Volatile Organics Compounds by Headspace GCMS |
| Water | WSLM3 | As Received | Determination of the pH of water samples by pH probe |

# Report Notes

## Generic Notes

**Soil/Solid Analysis**

Unless stated otherwise,
- Results expressed as mg/kg have been calculated on the basis indicated in the Method Description table.
  All results on MCERTS reports are reported on a 105ºC dry weight basis with the exception of pH and conductivity.
- Sulphate analysis not conducted in accordance with BS1377
- Water Soluble Sulphate is on a 2:1 water:soil extract

**Waters Analysis**

Unless stated otherwise results are expressed as mg/l

**Nil**: Where "Nil" has been entered against Total Alkalinity or Total Acidity this indicates that a measurement was not required due to the inherent pH of the sample.

**Oil analysis specific**

Unless stated otherwise,
- Results are expressed as mg/kg
- SG is expressed as g/cm$^3$@ 15$^o$C

**Gas (Tedlar bag) Analysis**

Unless stated otherwise, results are expressed as ug/l

**Asbestos Analysis**

**CH** Denotes Chrysotile **TR** Denotes Tremolite
**CR** Denotes Crocidolite **AC** Denotes Actinolite
**AM** Denotes Amosite **AN** Denotes Anthophylite
**NAIIS** No Asbestos Identified in Sample
**NADIS** No Asbestos Detected In Sample

## Symbol Reference

**^** Sub-contracted analysis.
**$$** Unable to analyse due to the nature of the sample
**¶** Samples submitted for this analyte were not preserved on site in accordance with laboratory protocols. This may have resulted in deterioration of the sample(s) during transit to the laboratory. Consequently the reported data may not represent the concentration of the target analyte present in the sample at the time of sampling
**¥** Results for guidance only due to possible interference
**&** Blank corrected result
**I.S** Insufficient sample to complete requested analysis
**I.S(g)** Insufficient sample to re-analyse, results for guidance only
**Intf** Unable to analyse due to interferences
**N.D** Not determined **N.Det** Not detected
**N.F** No Flow
**NS** Information Not Supplied
**Req** Analysis requested, see attached sheets for results
**Þ** Raised detection limit due to nature of the sample
***** All accreditation has been removed by the laboratory for this result
**‡** MCERTS accreditation has been removed for this result
§ accreditation has been removed for this result as it is a non-accredited matrix

**Note:** The Laboratory may only claim that data is accredited when all of the requirements of our Quality System have been met. Where these requirements have not been met the laboratory may elect to include the data in its final report and remove the accreditation from individual data items if it believes that the validity of the data has not been affected. If further details are required of the circumstances which have led to the removal of accreditation then please do not hesitate to contact the laboratory.

# Sample Descriptions

**Client :** RPS Group Plc

**Site :** JER6108-CH Project Chop

**Report Number :** W25_7819

| Lab ID Number | Client ID | Description |
|---|---|---|
| EX/1864780 | WS01 | Unclassified |
| EX/1864781 | WS04 | Unclassified |
| EX/1864782 | WS05 | Unclassified |
| EX/1864783 | WS08 | Unclassified |
| EX/1864784 | WS10 | Unclassified |