

TATA STEEL UK LIMITED

EAF Project

Phase 2 Geo-environmental Investigation

315531-R03 (04)

RSK GEOSCIENCES

February 2025

RSK GENERAL NOTES

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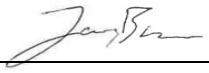
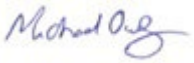
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Client: TATA STEEL UK LIMITED

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Office: RSK Environment Limited, The Old School House, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel 0117 947 1000

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Author	James Bloore BSc (Hons) FGS Catherine Cussell *MSc, BA (Hons), ASoBRA (Human Health and Controlled Waters)*	**Technical reviewer**	Jeremy Leach
Signature		Signature	
Project manager	James Bloore BSc (Hons) FGS	**Quality reviewer**	Stacey Brown
Signature		Signature	
Approved by	Michael Owens MSc SiLC		
Signature			

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Where field investigations have been carried out, these have been restricted to a level of detail required to achieve the stated objectives of the work.

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1 INTRODUCTION

1.1 Commissioning

RSK Environment Limited (RSK) were engaged by Tata Steel UK Limited, (18 Grosvenor Place, London, SW1X 7HS) herein referred to as the 'Client' to carry out a Phase II Geo-environmental Site Investigation at the land in Tata Steelworks, Port Talbot SA13 2NG.

The works were undertaken by means of client purchase order including terms and conditions Purchase Order number; 4200102803 dated 11 May 2024, which forms the appointment between RSK and the Client.

References in this report to 'we', 'us', or 'our' shall mean RSK Geosciences as a trading name of RSK Environment Limited (company no.SC115530) at registered address 65 Sussex Street, Glasgow, G41 1DX.

The site location is provided in **Figure 1** and the site layout boundary to which this report refers is presented in **Figure 2**.

The report should be read and used in accordance with the limitations and constraints identified in the report text, and at **Appendix A – Service Constraints**.

1.2 Objectives

The site is being considered for development for the construction of an Electric Arc furnace and associated plant and infrastructure, full details are described in section 2.2 and 2.3 The proposed development is presented in **Appendix B**.

The objective of the work is:

- to identify any land contamination and/or geotechnical constraints to the proposed development and to support discharge of relevant planning conditions and relevant building control requirements; and
- to identify the need for any additional investigation or remediation works to demonstrate that the site is suitable for its proposed use.

1.3 Scope of works

The scope of works has designed by the Client and is in accordance with relevant British Standards and authoritative technical guidance as referenced through the report. The assessment of the contamination status of the site is in line with the technical approach presented in Land Contamination Risk Management (LCRM) (Environment Agency, 2023) and in general accordance with BS 10175: 2011 + A2 2017 (BSI, 2017).

The scope of the intrusive investigation has been designed in line with the recommendations of BS5930:2015+A1:2020 Code of practice for ground investigations (BSI, 2020), which maintains compliance with BS EN 1997-1 and 1997-2 and their related standards. It has also been developed in general accordance with BS 10175: 2011 + A2 2017. Ground gas assessment has been undertaken in general accordance with BS8576: 2013 and BS 8485:2015+A1:2019.

The scope of works for the assessment has included the following:

Intrusive investigation:

- intrusive investigation works comprising:
    - buried service detection and avoidance
    - unexploded ordnance detection and avoidance
    - excavation of 69 trial pits
    - drilling of four light cable-percussive boreholes with rotary coring follow-on
    - drilling of 27 light cable-percussive boreholes
    - drilling of five light cable-percussive boreholes with rotary open hole follow-on
    - installation of combined groundwater/gas monitoring wells
- measurement and recording of ground gas concentrations in ten boreholes on six occasions at two monthly intervals
- measurement and recording of groundwater depth in ten boreholes on six occasions at two-monthly intervals
- groundwater sampling for laboratory analysis from ten boreholes on one occasion
- refinement of the conceptual site model (CSM) and completion of a generic quantitative risk assessment (GQRA) for relevant contaminant linkages
- preparation of this factual and interpretative report.

1.4 Existing reports

In preparation of this report, the following reports detailing previous works at the site have been reviewed:

- RSK Report; 315075 R01 Project Cronus Preliminary Risk Assessment February 2022
- RSK Report; 315075 R03 Geoenvironmental Ground Investigation Report March 2022
- RSK Report; 315075 R04 Supplementary Phase 2 Geoenvironmental Ground Investigation Report October 2022

- Wardell Armstrong 12 April 2024 ST20879-0001 Technical Note on Coal Mining Risk Assessment
- RSK Report; 315531 R01 (01) EAF Project Phase 1 Desk Study June 2024.

Pertinent information from these reports has been summarised in Section 3. The findings of the Project Cronus site investigations (where they overlap with this EAF boundary) have been included within this report for the purpose of completeness and in order to enhance the overall assessment of the proposed development area.

1.5 Limitations

This report is subject to the RSK service constraints given in **Appendix A** and limitations that may be described below and throughout this document. The location of all exploratory positions were determined by the Client and discussed with RSK.

Due to ongoing activities and on site restrictions it was not possible to investigate all the areas contained within the redline boundary, most notably the former coal yards located in the south west of the site.

This report was prepared in accordance with good practice guidance at the time of issue. Consideration should be considered in the light of changes in legislation, statutory requirements, or industry practices subsequent to the date of issue.

The study aims to principally identify and assess the potential risks and liabilities associated with contamination of the ground, on and in the vicinity of the site. While this includes consideration of current operations and housekeeping on the site, the report does not constitute a comprehensive environmental audit of the site, as covered under ISO 14001.

2 SITE DETAILS

2.1 Site location

Site location details are presented in **Table 1** and a site location plan is provided on **Figure 1**.

Table 1 Site location details

Site name	EAF Project
Full site address and Post code	Port Talbot, SA13 2NG
National Grid reference (centre of site)	277396, 186217

2.2 Site description

The site boundary and current site layout are shown on Figure 2. The site covers an area of c. 157 hectares. It is currently occupied by an active steelworks operated by Tata Steel.

For the purpose of this assessment the site has been separated into two areas (Area 1 and Area 2). Area 1 is the location proposed for development and construction of the Electric Arc Furnace (EAF). The associated infrastructure for the development including the widening of existing roadways, car park and lay down areas have been considered as a separate area, referenced Area 2. Area 1 is located to the east and north of the existing manmade lagoon. The areas are shown on **Figure 3**.

The site itself is currently being used for multiple different uses. The centre of the site is being used as a scrapyard, the majority of it being scrap metal from old appliances, industrial equipment, cars, and other items. The area just north of the scrap yard is used to store and screen different aggregates such as slag and concrete. The north eastern area of the site is mainly being used as steel slab storage yards. To the south of the slab yards are the HAA stockyards, which store and sort multiple types of aggregate such as slag, concrete, and other types of industrial rubble. To the west of the slab and stock yards is an area of vegetation with bushes and grass, the northern part of it is being used to store more aggregate, waste wood and other materials. The area immediately south of this area is being used to store coal and associated infrastructure to supply Morfa Coke ovens off site to the west. Directly west of the coal storage area (disused) is cylindrical structure used to store gas which is also associated with the neighbouring coke oven. The southern end of the site is an undeveloped flat grass land area with no other current land use. The extreme northwest of the site encroaches onto the work reservoir, a water body located within the wider steelworks.

Area 1

The majority of the development will take place incorporating the existing areas of the HARSCO yard, Basic Oxygen Steelmaking (BOS) Plant, HRP- North Slab Yard and Continuous casting plant.

The HARSCO yard is located north of the lagoon and responsible for the processing of slag and comprises several large stockpiles. There is a central roadway for plant movement which is raised several metres above the surrounding land. During a walkover carried out by RSK evidence of

surface oil spillages were noted in some locations in the HARSCO yard and regeneration yards, predominantly in areas of soft standing / compacted stone. The HARSCO yard comprises c. 10 hectares of the proposed development area.

The BOS plant is in an approximately rectangular building with railway lines leading in from the north. The area runs north to south adjacent to the HARSCO Yard. It is used for the production of steel from raw materials. The BOS Plant and rail lines in the proximity cover c. 5.60 hectares.

The HRP-North Slab Yard is the storage yard for the steel slab postproduction and is located on the north eastern boundary of the development site. This comprises surface road stone and rough vegetation and some above ground utility pipes and covers c. 4.5 hectares.

Area 2

There are multiple roads running through the site and a several rail lines generally running north-south in the eastern part of the site. These connect the coal storage, slab and stock yards to the Paddington to Swansea main line railway to the northeast.

The area surrounding the site is predominately part of the steelworks. Directly west of the site is the Morfa Coke Ovens and associated infrastructure, where coal is blended and heated to form coke for iron production. Approximately 600m west is the Bristol Channel. South of the works reservoir and adjacent to the site boundary is a steel service centre. North of the works reservoir is the BOS plant and the Concast plant, where steel is made, treated and processed to ultimately form steel slabs. North of the BOS and Concast plants are various stock storage yards that also appear to contain aggregates such as slag, and two gas holders for the BOS plant and blast furnace. Further north of this is the Sinter plant and raw materials stock yards where iron ore, limestone, coal and coke are stored. To the east of the sinter plant are the blast furnaces and power plant where iron is produced from coke, iron ore and sinter as well as other materials.

The area directly east of the site and situated in the southeast of the wider steelworks is the Hot Mill where hot rolled products such as Hot Rolled Coils are produced from steel slabs. Again, throughout the steelworks are access roads and rail to transport products and raw materials.

Beyond the steelworks itself are residential and commercial areas to the north, residential and open fields hills to the east, a reservoir is present approximately 360 m to the southeast, moorland to the south with Morfa beach and the Bristol channel to the west.

2.3 Surrounding land uses

The site is located in Port Talbot, within a predominantly commercial and industrial setting. Immediate surrounding land uses are described in **Table 2**. The nearest residential receptor to the site is located circa 900 m east.

Table 2 Surrounding land uses

North	Industrial steelworks, River Afan and harbour (located approximately 2km to the north) with residential and commercial area further north.
East	Industrial steelworks, residential area, open fields and hills. A reservoir is also present approximately 360m to the southeast
South	Open fields and moorland, reservoir to the southeast owned by Tata Steel UK Limited
West	Coke ovens related to steelworks with beach and Bristol Channel further west

2.4 Proposed development plans

Details of the proposed ground levels have been provided by the Client and are shown below in **Table 3**.

Table 3 Proposed developments with corresponding ground levels

Description	Proposed GL (mm AOD)
Canopy Hood	8200
Consteel Conveyor	8200
Fume Treatment Plant	8200
Shredded Scrap Yard	-
Hot Briquetted Iron Dolo & Lime Bunker	8200
Ferro Alloys Bunker	8200
Fire Water Pump House	8200
Primary Pump House	8100
Secondary Pump House	7500
Main Power Centre	7000
Power Compensation Building	7000
National Grid Compound	7000
Melt Shop Power Distribution Building	7000
Incoming Scrap Yard Electrical Building	6000
Melt Shop WTP Electrical Building	8200
Melt Shop FEP Electrical Building	8200
Compressor House	8200
Scrap Storage & Processing Yard	7000
Overflow Scrapyard	7000
Non Ferrous Processing Area	6000
Scanning Facilities	5000
Railway Weigh Bridge	5000
Car Parking Area	7200
Changing & Office Block Building	7300
Emergency Tank	8200
Lagoon Water Pump House	8200
Green Walkway Extension	7300
HBI & Pig Iron Storage Area	5500
Active Carbon Injection Silos	8200

Based upon the available information provided for the southern section of the site from topographical drawings, there appears to be relatively little change between current and proposed development site levels (c.1m).

The proposed layout of the site, at the time of preparing this report, is shown in **Appendix B**.

2.5 Previous Report Summary

A summary of the Phase 1 Preliminary Risk Assessment (ref. 315531 R01 (01)) findings, salient to the site is presented below; the full report should be referred to for further details.

Information published by the British Geological Survey has indicated the following sequence to be anticipated beneath the site, refer to **Table 4**:

Table 4 Site geology – Majority of site

Strata	Description	Estimated thickness
Anticipated Made Ground	Clay, silt, sand and gravel with low to high cobble content. Made up of reworked natural and anthropogenic material such as slag, brick, and concrete with occasional scraps of metal and other anthropogenic materials	Variable. Up to 6.00 m
Tidal Flat Deposits	Tidal Flat Deposits, including mud flat and sand flat deposits, are deposited on extensive nearly horizontal marshy land in the intertidal zone that is alternately covered and uncovered by the rise and fall of the tide. They consist of unconsolidated sediment, mainly mud and/or sand. They may form the top surface of a deltaic deposit. Normally a consolidated soft silty clay, with layers of sand, gravel and peat	Approximately 15.00 m
Glacial Deposits (Boulder Clay)	Gravelly clay with cobbles	Approximately 13.00 m
Undifferentiated South Wales Coal Measures Formation	Coal-bearing mudstones/siltstones, and sandstones	Up to 300 m

2.6 Hydrogeology

A summary of the hydrogeological setting of the site, with respect to the anticipated geological sequence set out in Section 3.4 is presented below in **Table 5**.

Table 5 Summary of hydrogeological setting

Condition	Description
Aquifer characteristics	The site is underlain by a secondary aquifer relating to the South Wales Lower Coal Measures. The superficial Tidal Flat Deposits across the majority of the site are classified as Secondary (undifferentiated). The north-eastern corner of the site is classified as Secondary A aquifer relating to the 'Blown Sand' deposits. The presence of low permeability clay at relatively shallow depths beneath the site, while restricting downwards migration, may increase the potential for lateral migration of shallow groundwater (and therefore mobile contamination, if present). Groundwater quality beneath the site may be affected by saline intrusion.

Condition	Description
Depth to groundwater and flow	Groundwater in the site area is anticipated to flow in a westerly direction, i.e. towards and in the direction of flow of the Bristol Channel. It is also likely that shallow water may be present in any Made Ground deposits present on-site.
Rising groundwater levels	The site is located in a former coal mining area and may be associated with rebounding groundwater levels following the end of mining and associated dewatering
Groundwater recharge/ attenuation	Large areas of the wider site are currently covered with buildings and hardstanding and therefore this will limit infiltration to ground and groundwater recharge, except where SUDS are present (details of which are unknown). The site under assessment in this report is large covered by soft standing or stone surfacing.
Historical implications for hydrogeology	A partially culverted stream known as the Lower Mother Ditch runs approximately north to south along the eastern edge of the site
Licensed groundwater abstractions	The environmental database report indicates that there are 2 current licensed groundwater abstractions within a 1km radius of the wider site, these are located c. 396 m and 441 m southeast of the assessment area considered in this report and are operated by the site for cooling water.
Source protection zones	Information available in the Groundsure report indicates that the site does not lie within a currently designated groundwater Source Protection Zone (SPZ).

A summary of the hydrology within the site area is summarised in **Table 6**.

Table 6 Summary of hydrology in site area

Condition	Description
Surface watercourses/features	A number of surface water features are present across the wider site. Most notably is the tidal zone running north-west to southeast approximately 50.00 m from the site. On site there is a man-made body water body (lagoon) located in centre/north of the site under assessment in this report along with number of drainage ditches located along field boundaries to the south of the development area. Lower Mother Ditch runs south to north through the site area via unmapped culverts.
Surface water abstractions	The environmental database report indicates that there is 1 current licensed surface water abstraction within a 1km radius of the site, located on site and utilised for process water.
Site drainage	Surface drainage from the site appears to be discharged into Lower Mother Ditch which runs across the site from south to north although this is not confirmed.
Preliminary flood risk assessment	The indicative floodplain map for the area, shows the risk of flooding each year has been assessed by NRW as moderate –i.e. 1.3% (1 in 75) or less, but greater than 0.5% (1 in 200). A flood risk assessment (FRA) is outside the scope of this report.

Based upon the first published map area 1 is predominately undeveloped, there are a number of buildings associated with the Morfa Colliery labelled 'Pit row', 'office row' and 'Overman's Row 'in the southern part of the site. A railway line is present serving both Grange Pit and Abbot Pit shown east and south of the area. The area is shown to mainly comprise of marsh/dunes. By 1947 colliery was reduced in size and the 2 pits are no longer present. The present day steel works is first shown from the mid 1960's extending further north from our area of investigation.

In 1876 Area 2 is also included within the colliery, there is a large pond to the northeast of the site, with marsh land around it. At the north end of the site is a colliery and associated infrastructure such as pits, shafts and unspecified tanks as well as another coal pit west of the pond. A rail line runs from the north to Abbot Pit. A disused rifle range is shown in 1965, it is not clear when it was active. At this time the steel works is shown with associated buildings, expansion further by the mid 1980's to include conveyors and pipelines, these are assumed to be associated with the Grange Coke Ovens. Several conveyor systems for coal have been constructed to the centre and west of the site that appear to service the coke ovens situated just off site to the west. A gas holder in 1991 was constructed, again to service the coke ovens just off site.

In recent times the site has shown a steady expansion and use as a steel works with numerous phases of expansion, operations, and processes with the use and decommissioning of the Morfa Coke Ovens, and a number of above and below ground tanks, which may impact the surrounding soils.

Based upon the assessment carried out by Wardell Armstrong (ref. ST20879-0001b) the risk associated as a result of coal mining has been classified as 'low to moderate'. The Morfa Colliery was present within the site and three possible mine entries are noted on the published information further south from the proposed EAF location. Up to eight coal seams may have been worked beneath the site.

2.6.1 Potential sources of contamination

Potential sources of soil and groundwater contamination identified from current activities and the history of the site and surrounding area are presented in **Table 7**.

Table 7 Potential sources of soil and groundwater contamination

Potential sources	Contaminants of concern
On-site	
S1 Made Ground (i.e. fill material)	Unknown fill material but potentially including brick, ash and clinker and containing toxic and phytotoxic metals, inorganics, polycyclic aromatic hydrocarbons (PAHs), asbestos
S2 Areas of former Coke Ovens, BOS plant and coal yards.	Unknown material but potentially including ash and clinker and containing toxic and phytotoxic metals, inorganics, PAHs, hydrocarbons, benzene, toluene, ethylbenzene and xylenes (BTEX) and asbestos
S3 Storage of oils/chemicals on-site	Lube oil, diesel, kerosene
S4 Warehouse/ engineering works	Petroleum hydrocarbons, toxic and phytotoxic metals, asbestos

Potential sources	Contaminants of concern
S5 Underground/ above ground storage tank and associated pipework	Petroleum hydrocarbons (petrol/diesel)
S6 Scrap Yard	Unknown material but potentially including ash and clinker and containing toxic and phytotoxic metals, inorganics, PAHs, hydrocarbon, BTEX and asbestos
S7- Railway lines/sidings	Petroleum hydrocarbons, toxic, phytotoxic metals, inorganics, PAHs and asbestos
Off-site	
S8- Railway bounds the site to the east	Petroleum hydrocarbons, toxic, phytotoxic metals, inorganics, PAHs and asbestos
S9 Industrial process associated within the wider steelwork to the north and Morfa Coke Ovens to the west	Unknown material but potentially including ash and clinker and containing toxic and phytotoxic metals, inorganics, PAHs, hydrocarbon, BTEX

The stockpiled materials for use during ongoing site operations, as observed during the walkover, most notably around the HARSCO yard have not been included on account of their understood short-term storage on site. Furthermore, they will likely be removed prior to any development as part of the enabling works.

2.6.2 Sensitive receptors and linking exposure/ migration pathways

Sensitive receptors identified at or in the vicinity of the site that could be affected by the potential sources identified above comprise:

- **R1** future site users – industrial workers [oral, dermal and inhalation exposure with impacted soil, soil vapour and dust/fibres, ground gases]
- **R2** adjacent site users – industrial workers [migration of contamination via dust/fibre deposition, vapour or groundwater migration combined with inhalation]
- **R3** future buildings and services [direct contact with contaminated soils or groundwater and chemical attack]
- **R4** Surface water in the Bristol Channel [dissolution followed by lateral migration groundwater in secondary aquifer within superficial deposits and Lower Mother Ditch]

Potential linking pathways are show in brackets for each item above.

Groundwater has been considered as a pathway as opposed to a receptor on account of the historical and current industrial uses across the wider area. A degree of impact on the groundwater as a result of this regional land use is to be expected and hence the primary sensitive receptor is considered to be surface waters. Similarly, the Lower Mother Ditch which runs along the boundary of the site is understood to receive storm water from the site in addition to the condition of the culvert through the Made Ground being unknown. Based on this the Lower Mother Ditch has been considered a pathway as opposed to a receptor. This has been discussed with NRW as part of the previous Project Cronus findings.

Please note that construction workers and future maintenance workers have not been identified in the conceptual model as receptors because risks are considered to be managed through health and safety procedures according to the Construction Design Management (CDM) Regulations.

Ecological receptors are only considered within the conceptual model in the context of statutory protected sites.

2.7 Potential ground gas linkages

2.7.1 Ground gas generation potential

Potential ground gas sources identified for the site and surrounding are shown in **Table 8**.

Table 8 Potential ground gas sources (excludes mine gas)

Potential sources	Indicative ground gas generation potential (CIEH, 2008)	Additional information
On-site		
S10 Natural soil strata with a low degradable organic content, e.g. alluvium, peat	Very low	-
S11 Made Ground with low degradable organic content (e.g. up to 5% organic material and no easily degradable waste).	Very low	-

Potential sources of ground gas generation have been identified therefore this potential issue has been taken forward.

- The offsite landfill located 263 m to the south is considered sufficient distance away so as not to pose an unacceptable risk.

2.7.2 Potential coal mine gas sources

The potential sources of mine gas associated with the area of the site are as follows:

- desorption of gas from coal and rocks – predominantly methane
- oxidation of coal – carbon dioxide and oxygen depletion, also methane and ethane and carbon monoxide at higher temperatures

Based on the evidence collected and in general accordance with the CL:AIRE guidance (2021a), the risk of gas generation from these sources is considered to be low due to the age of the coal workings (greater than 50 years), the presence of cohesive superficial deposits of considerable thickness and the shallow groundwater beneath the site and so the workings are likely to be flooded and not susceptible to oxidation.

Table 9 Risk estimation for potentially complete contaminant linkages

Potential source	Potential receptor	Possible pathway	Likelihood	Severity	Potential risk	Justification
Sources on site						
S1 Made Ground **S2** Area of former Coke Ovens, BOS plant and coal yards. **S5** Underground/ above ground storage tanks and associated pipework	**R1** Future site users	**P1** Dermal contact, soil ingestion, dust and fibre inhalation, including vapour inhalation	Low	Medium	Moderate/low	Contaminants may be present in the Made Ground and shallow soils associated with past and current development and industrial uses. It is understood that the proposed development is likely to comprise of hardstanding and as such future direct contact and dust generation will be limited. Furthermore the associated new drainage will limit infiltration and throughflow.
	R2 Future adjacent site users – industrial workers	**P2** Migration of contamination via dust/fibre deposition, vapour or groundwater migration combined with inhalation.	Unlikely	Mild	Very low	
	R3 Future buildings and services	**P3** Direct contact with contaminated soils or groundwater and chemical attack	Likely	Medium	Moderate	
	R4 Surface water in the Bristol Channel	**P4** Dissolution and lateral migration in groundwater in the secondary aquifer and Lower Mother Ditch	Low	Medium	Moderate/low	
S3 Storage of oils/chemicals on-site **S4** Warehouse/ engineering works	**R1** Future site users	**P1** Dermal contact, soil ingestion, dust and fibre inhalation, including vapour inhalation	Unlikely	Medium	Low	Contaminants may be present albeit the impact is likely to be localised and relatively minimal with

Potential source	Potential receptor	Possible pathway	Likelihood	Severity	Potential risk	Justification
	R2 Future adjacent site users – industrial workers	**P2** Migration of contamination via dust/fibre deposition, vapour or groundwater migration combined with inhalation.	Unlikely	Mild	Very low	respect to the proposed redevelopment.
	R3 Future buildings and services	**P3** Direct contact with contaminated soils or groundwater and chemical attack	Unlikely	Medium	Low	
	R4 Surface water in the Bristol Channel	**P4** Groundwater in the secondary aquifer and Lower Mother Ditch	Unlikely	Medium	Low	
S6 Scrap Yard **S7** Railway line	**R1** Future site users	**P1** Dermal contact, soil ingestion, dust and fibre inhalation, including vapour inhalation	Low	Medium	Moderate/low	Contaminants may be present as a result of the historical and ongoing land uses associated with the sources. It is understood that the proposed development is likely to comprise of hardstanding and as such future direct contact and dust generation will be limited. Furthermore the associated new drainage will limit infiltration and throughflow.
	R2 Future adjacent site users – industrial workers	**P2** Migration of contamination via dust/fibre deposition, vapour or groundwater migration combined with inhalation.	Unlikely	Medium	Low	
	R3 Future buildings and services	**P3** Direct contact with contaminated soils or groundwater and chemical attack	Low	Medium	Moderate/low	

Potential source	Potential receptor	Possible pathway	Likelihood	Severity	Potential risk	Justification
	R4 Surface water in the Bristol Channel	**P4** Groundwater in the secondary aquifer and Lower Mother Ditch	Low	Medium	Moderate/low	
S10 Natural soil strata with a low degradable organic content, e.g. alluvium, peat. **S11** Made Ground. **S12** Coal Workings (Coal Mine Gases)	**R1** Future site users **R3** Future buildings and services	Ground gas migration, accumulation and inhalation	Low	Medium	Moderate/low	Natural strata is unlikely to give rise to significant flows of ground gas. Development history suggests a very low potential for the presence of Made Ground to be present with the potential to give rise to ground gas. RSK consider the actual risk rating to be low based on the evidence available. However, the nature of the Made Ground is unknown and may have the potential to generate low level of ground gases.
	R2 Future adjacent site users – industrial workers		Unlikely	Medium	Low	

Potential source	Potential receptor	Possible pathway	Likelihood	Severity	Potential risk	Justification
Sources off site						
S8 Railway bounds the site to the east. **S9** Industrial process associated within the wider steelwork to the north and Morfa Coke Oven to the west.	**R1** Future site users	**P2** Migration of contamination via dust/fibre deposition, vapour or groundwater migration combined with inhalation.	Unlikely	Medium	Low	The redevelopment is within a wider area of industrial activity which is regulated and controlled under best practice, environmental permits. Uncontrolled emissions and production of hazardous substances are therefore unlikely. With the exception of large scale bulk earthworks, the risk of dust and fibre inhalation is unlikely. Contact with groundwater is unlikely as is vapour migration.

Risk matrix		Consequences			
		Severe	Medium	Mild	Minor
Probability	Highly likely	Very high	High	Moderate	Moderate/low
	Likely	High	Moderate	Moderate/low	Low
	Low likelihood	Moderate	Moderate/low	Low	Very low
	Unlikely	Moderate/low	Low	Very low	Very low
	Very Unlikely	Low	Very Low	Negligible	Negligible

Receptors (**R**) and the associated potentially complete contaminant linkages with a potential risk of moderate to low or higher comprise:

- **R1** future site users – industrial workers [oral, dermal and inhalation exposure with impacted soil, soil vapour and dust/fibres, ground gases]
- **R3** future buildings and services [direct contact with contaminated soils or groundwater and chemical attack]
- **R4** Surface water in the Bristol Channel [dissolution followed by lateral migration in groundwater in secondary aquifer within superficial deposits]

In line with LCRM, these potentially complete contaminant linkages need to be assessed further through an appropriate scope of site investigation.

3 SITE INVESTIGATION STRATEGY & METHODOLOGY

3.1 Introduction

RSK undertook intrusive investigation works and subsequent monitoring of boreholes at the site between May 2024 and November 2024. The positions of the exploratory holes were in accordance with the Scope and intended to provide an assessment of general ground conditions and contamination status of the site. All works were initially designed by the Client and subject to review and amendment if required based upon the findings of the Preliminary Risk Assessment.

We have also included the site investigation and chemical test data from the previous works from Project Cronus carried in 2022 (where the sites overlap) for the purpose of a more complete assessment.

The ground investigations were carried out in general accordance with the recommendations of BS5930: 2015 Code of practice for ground investigations, which maintains compliance with BS EN 1997-1 and 1997-2 and their related standards. The exploratory holes were logged by an engineer in general accordance with the recommendations of BS 5930:2015 (which incorporates the requirements of BS EN ISO 14688-1, 14688-2 and 14689-1).

Prior to breaking ground each location was scanned using Ground Penetrating Radar (GPR), a CAT and Signal Generator and a hand excavated pit undertaken (boreholes only) in line with RSK's health and safety procedures.

The soil sampling and analysis strategy was designed to characterise each encountered soil strata and permit an assessment of the potential contaminant linkages identified. In addition, samples were taken to allow for geo-environmental testing to be undertaken.

Soils collected for laboratory analysis were placed in a variety of containers appropriate to the anticipated testing suite required. They were dispatched to the laboratory in cool boxes under chain of custody documentation. Samples were stored in accordance with the RSK quality procedures to maintain sample integrity and preservation and to minimise the chance of cross contamination.

The investigation strategy involved a combination of targeted and non-targeted boreholes and trial pits.

3.2 Objectives

The specific objectives of the investigation were as follows:

- to establish the ground conditions underlying the site including the extent and thickness of any Made Ground
- to investigate specific potential sources of contamination identified in initial CSM and whether there are any complete contaminant linkages present
- to determine groundwater depth and flow direction
- to determine the ground gas regime underlying the site.

3.3 Selection of investigation methods

The techniques adopted for the investigation were chosen with consideration of the objectives and site constraints, which are described below.

Cable percussion drilling was chosen based on the targeted drill depth, the anticipated geology, requirement for in-situ geotechnical data, the opportunity to collect both disturbed and undisturbed samples and install monitoring wells. Rotary methods were adopted where required to achieve the required depth and/or to assess the nature of the coal seams beneath the site using a combination of open hole drilling technique and coring.

This was supplemented by mechanically excavated trial pits at a number of investigation locations to achieve greater visibility of the made ground.

Prior to conducting intrusive works, service plans were provided by the client and buried service clearance undertaken in line with RSK's health and safety procedures.

3.4 Investigation strategy

The ground investigation was carried out using intrusive ground investigation techniques in general accordance with the recommendations of BS5930:2015+A1:2020, which maintains compliance with BS EN 1997-1 and 1997-2 and their related standards. Whilst every attempt was made to record full details of the strata encountered in the boreholes, techniques of hole formation and sampling will inevitably lead to disturbance, mixing or loss of material in some soils and rocks.

The investigation strategy involved targeted and non-targeted boreholes and trial pits focussing on the EAF development area, lay down areas were investigated at a lower density.

The constraints to the investigation were as follows:

- on-going activities on site including the BOS plant and HARSCO yard restricted access and exploratory hole locations
- compacted and dense ground resulting in slow and difficult excavation of service avoidance pits

Details of the investigation locations, installations and rationale are presented in **Table 10** and **Table 11**. An exploratory hole location plan is shown on **Figure 3**.

Table 10 Exploratory hole and monitoring well location rationale as carried out

Type	Location	Depth (m)	Installation	Rationale
Cable Percussive	BH301	25.05	Groundwater /gas	Characterise the underlying strata, sequence and carry out in-situ testing
Cable Percussive	BH302	7.30	-	Terminated due to unknown ferrous anomaly
Cable Percussive	BH302A	27.45	-	Characterise the underlying strata, sequence and carry out in-situ testing
Cable Percussive	BH303A	28.95	-	Characterise the underlying strata, sequence and carry out in-situ testing
Cable Percussive & Rotary Cored	BH304	75.00	-	Coal mining investigation borehole to identify and describe the sequence of coal seams

Type	Location	Depth (m)	Installation	Rationale
Cable Percussive	BH305	27.00	-	Characterise the underlying strata, sequence and carry out in-situ testing
Cable Percussive	BH306	2.00	-	Terminated due to concrete obstruction
Cable Percussive	BH306A	1.10	-	Terminated due to scrap obstruction
Cable Percussive & Rotary Cored	BH306B	30.12	-	Characterise the underlying strata, sequence and carry out in-situ testing
Cable Percussive	BH307	27.60	-	
Cable Percussive	BH308	28.45	-	
Cable Percussive	BH309	3012	NA	
Cable Percussive	BH310	29.70	-	
Cable Percussive	BH311	37.20	Groundwater / gas	
Cable Percussive & Rotary Cored	BH312	38.00	NA	
Cable Percussive	BH313	27.80	-	
Cable Percussive	BH314	25.00	-	
Cable Percussive	BH315	30.10	NA	
Cable Percussive	BH316	3.00	NA	Terminated due to suspected service being encountered
Cable Percussive	BH316a	28.00	NA	Characterise the underlying strata, sequence and carry out in-situ testing
Cable Percussive & Rotary Cored	BH317	66.63	-	Coal mining investigation borehole to identify and describe the sequence of coal seams: Amman Rider and Yard.
Cable Percussive	BH318	18.81	-	Identify strata, sequence and carry out in-situ testing
Cable Percussive	BH319	21.80	NA	Identify strata, sequence and carry out in-situ testing
Cable Percussive & Rotary Cored	BH320	58.00	-	Coal mining investigation borehole to identify and describe the sequence of coal seams; Yard, Middle 7 Feet and Lower 7 Feet.
Cable percussive	BH321	25.07	-	Characterise the underlying strata, sequence and carry out in-situ testing
Cable Percussive & Rotary Cored	BH322	76.00	Groundwater /gas	Coal mining investigation borehole to identify and describe the sequence of coal seams: Middle 7 Feet and Amman Rider. Located above and below the Kenfig-Tytalwyn Thrust Fault.
Cable Percussive	BH323	3.40	NA	Terminated due to steel obstruction encountered

Type	Location	Depth (m)	Installation	Rationale
Cable Percussive & Rotary Cored	BH332A	57.52	-	Coal mining investigation borehole to identify and describe the sequence of coal seams:
Cable Percussive & Rotary Cored	BH324	75.10	Groundwater / gas	Coal mining investigation borehole to identify and describe the sequence of coal seams: Upper 9 Feet, Lower 9 Feet and Bute
Cable Percussive	BH325	30.03	-	Confirm depths of silt and construction of lagoon (including liner). Identify strata, sequence and carry out insitu testing.
Cable Percussive	BH326	32.00	-	Confirm depths of silt and construction of lagoon (including liner). Identify strata, sequence and carry out insitu testing.
Cable Percussive	BH327	33.00	-	Confirm depths of silt and construction of lagoon (including liner). Identify strata, sequence and carry out insitu testing.
Cable Percussive	BH328	39.00	Groundwater / gas	Characterise the underlying strata, sequence and carry out in-situ testing
Cable Percussive	BH329	37.50	Groundwater / gas	Characterise the underlying strata, sequence and carry out in-situ testing
Cable Percussive	BH330	35.00	-	Characterise the underlying strata, sequence and carry out in-situ testing
Cable Percussive & Rotary Cored	BH331	30.00	Groundwater / gas	Characterise the underlying strata, sequence and carry out in-situ testing
Trial pitting by mechanical excavator	TP301-TP3001*	-	NA	Characterise the underlying strata, sequence
*Trial pits-304,315,16,321,322,328,329,330,338,339,340,347,348,349,351,352,354,355,356,358,359,360,361,362,363,364,369,370,373,377,378,379,380,382,385 and 394 were not carried out due to on-site restrictions.				

Table 11 Exploratory hole and monitoring well location rationale from Project Cronus Investigation works

Investigation type	Number	Designation	Monitoring well installation	Rationale examples below
Boreholes by rotary or cable percussive methods	19	BH1 to BH13 (BH6,7,9 not drilled) BH201 to BH209	Gas/ groundwater	To prove the geological succession beneath the site
Trial-pits excavated by hand/mechanical excavator	75	TP4 to TP60 (excluding TP 7,10,12,17,18,24,32-41 and 52)	n/a	To accurately log the upper strata in targeted and non-targeted locations beneath the site, principally in areas of historical or present day contaminative process. Collect

Investigation type	Number	Designation	Monitoring well installation	Rationale examples below
		TP201 to TP234 (Excluding TP 219 & 220)		samples from the shallow Made Ground soils

3.4.1 Implementation of investigation works

The exploratory holes were logged by an engineer in general accordance with the recommendations of BS5930:2015+A1:2020 (which incorporates the requirements of BS EN ISO 14688-1, 14688-2 and 14689-1).

The monitoring well construction and associated response zones are detailed on the exploratory hole records in **Appendix D**. The response zones were installed to target identified gas generation sources or migration pathways detailed in the initial preliminary CSM as well as groundwater as encountered during the investigation.

The soil sampling and analysis strategy was designed to characterise each encountered soil strata and permit an assessment of the potential contaminant linkages identified. In addition, samples were taken to allow for geo-environmental testing to be undertaken.

Soils collected for laboratory analysis were placed in a variety of containers appropriate to the anticipated testing suite required. They were dispatched to the laboratory in cool boxes under chain of custody documentation. Samples were stored in accordance with the RSK quality procedures to maintain sample integrity and preservation and to minimise the chance of cross contamination.

Selected samples were placed in polythene bags for headspace screening with a photo-ionisation detector (PID) fitted with a 10.6 eV bulb. The PID screening results are presented on the exploratory hole records.

3.5 Monitoring programme

3.5.1 Ground gas monitoring

In line with the initial CSM, response zones were installed to target the sources or pathways as detailed.

Five monitoring rounds have been undertaken to date to provide data to support refining of the CSM. The number of monitoring rounds undertaken is in general accordance with the decision matrix presented as Figure 6 of BS8576 for a very low/low source generation potential and low sensitivity development.

A calibrated infrared gas meter was used to measure gas flow, concentrations of carbon dioxide (CO_2), methane (CH_4) and oxygen (O_2) in percentage by volume, while hydrogen sulphide (H_2S) and carbon monoxide (CO) were recorded in parts per million.

Initial and steady state concentrations were recorded. In addition, during the first monitoring round, all wells were screened with a PID to establish if there are any interferences and cross-sensitivity of other hydrocarbons with the infrared gas meter.

The atmospheric pressure before and during monitoring, together with the weather conditions, were recorded. The monitoring included periods of falling atmospheric pressures and falling tides as follows:

- Visit 1 - 1.8.2024 - pressure fell over the preceding 3 days from 1009.14mbar to 1005.76mbar, tide from low to rising
- Visit 2 – 9.8.2024 - pressure fluctuating over the preceding 3 days from 1005.76mbar to 1002.37mbar, tide from high to falling
- Visit 3 – 30.9.2024 - pressure fell over the preceding 3 days from 1015.92mbar to 995.6mbar, tide rising to low and then falling
- Visit 4 – 29.10.2024 - pressure rising over the preceding 3 days from 1012.53mbar to 1015.92mbar, tide from low to rising
- Visit 5 – 14.11.2024 - pressure fell over the preceding 3 days from 1029.46mbar to 1022.69mbar, tide low to rising.

Atmospheric pressure data (average) from Port Talbot weather station records available online at https://www.wunderground.com/history/weekly/gb/barry/EGFF/date/2024-11-14. Tide data from https://www.tidetimes.org.uk/port-talbot-tide-times-20241114.

All ground gas monitoring results together with the temporal conditions are contained within **Appendix E**. Equipment calibration certificates are available on request.

3.5.2 Groundwater monitoring and sampling

In total, 5 rounds of groundwater monitoring were undertaken. One round of groundwater sampling was carried out. The monitoring field records are provided in **Appendix E.**

Development of the monitoring wells following installation was undertaken comprising the removal of three well volumes using a pump.

Groundwater samples were retrieved using low flow sampling methods where appropriate in general accordance with British Standard 5667 (2009).

Water samples were dispatched to the laboratory in cool boxes under chain of custody documentation.

3.6 Laboratory testing

Laboratory testing was undertaken at a UKAS accredited laboratory with ISO17025 and MCERTS accredited test methods specified where applicable for contamination testing and as shown in the laboratory test certificates appended.

3.6.1 Chemical analysis of soil samples

The soil sampling strategy was designed to characterise made ground and natural strata and the potential for contaminant migration from relevant sources identified within the preliminary CSM.

The programme of chemical tests undertaken on soil samples obtained from the intrusive investigation is presented in **Table 12** with the laboratory testing results contained in **Appendix F.** The programme of chemical tests for the soil samples obtained during the Cronus Project are presented in **Table 13.**

Table 12 Summary of chemical testing of soil samples

Stratum	Tests undertaken	No. of Tests
Made ground	Suite E – heavy metals, hexavalent chromium, pH, water soluble sulphate (SO4), organic matter, total petroleum hydrocarbons (TPH CWG), speciated PAHs (USEPA 16), phenol, cyanide (total), asbestos ID	71
Made ground	Semi volatile organic compounds (SVOCs) and volatile organic compounds (VOCs)	8
Natural	Suite E – heavy metals, hexavalent chromium, pH, water soluble sulphate (SO4), organic matter, TPH CWG, speciated PAHs (USEPA 16), phenol, cyanide (total), asbestos ID	1

Table 13 Summary of previously undertaken chemical testing of soil samples from Project Cronus

Stratum	Tests undertaken	No. of tests
Made Ground	Asbestos screening and ID	103
	Heavy metals	103
	Speciated PAHs	103
	TPH CWG	94
	SVOCs and VOCs	39
Natural strata	Heavy metals	12
	Speciated PAHs	12
	TPH CWG	9
	SVOCs and VOCs	9

3.6.2 Geotechnical analysis of soils

Where appropriate, disturbed, bulk and undisturbed soil samples were taken for geotechnical classification testing with the depth and nature of samples detailed within the exploratory hole records.

The programme of geotechnical tests undertaken on samples obtained from the intrusive investigation is reported under a separate report.

3.6.3 Chemical analysis of groundwater

Groundwater samples were collected in containers appropriate to the anticipated testing suite required. The containers were filled to capacity and placed in a cool box to minimise volatilisation.

Chemical testing undertaken on water samples obtained during the monitoring programme is presented in **Table 14** and **Table 15**. Laboratory testing results are provided in **Appendix G**.

Table 14 Summary of chemical testing of water samples

Sample type	Tests undertaken	No. of tests
Groundwater	Suite F- Heavy metals, pH, water soluble sulphate (SO4), organic matter, total TPH (>C6-C40) , speciated PAHs (USEPA 16), phenol, cyanide (total), asbestos ID, hexavalent chromium	6

Table 15 Summary of chemical testing of water samples for Project Cronus

Sample type	Tests undertaken	No. of tests
Groundwater (Made Ground)	Heavy metals Speciated PAHs TPH CWG SVOCs and VOCs	38
Groundwater (Natural)	Heavy metals Speciated PAHs TPH CWG SVOCs and VOCs	8

4 SITE INVESTIGATION FACTUAL FINDINGS

The results of the intrusive investigation and subsequent geo-environmental laboratory analysis undertaken are detailed below.

4.1 Ground conditions encountered

The descriptions of the strata encountered, notes regarding visual or olfactory evidence of contamination, list of samples taken, field observations of soil and groundwater, in-situ testing and details of monitoring well installations are included on the exploratory hole records presented in **Appendix D**. Copies of the logs from Project Cronus are also included but the ground conditions have not been summarised below.

For the purpose of discussion, the ground conditions encountered during the fieldworks have been sub-divided into 2 separate areas. Area 1 focuses on the development and construction of the EAF itself, where area 2 encompasses the associated infrastructure for the development including the widening of existing roadways, car park and lay down areas.

4.2 Area 1 – EAF Main Development Zone

The exploratory holes in Area 1 showed a variable thickness of Made Ground over superficial deposits with South Wales Coal Measures encountered at depth. This corresponds to published geological maps and previous site investigations carried out by RSK; previous exploratory holes have been included within the below sections for completeness.

4.2.1 Made ground

Made Ground was encountered predominantly from ground level at all locations (with the exception of boreholes in the lagoon) up to a maximum thickness of 10.50 m below ground level (m bgl) (BH311). This summarised in **Table 16**.

Made Ground frequently contained gravel/cobbles of slag and varying amounts of other anthropogenic materials such as rubber, plastic, brick, ash, metal, clinker, tarmac and concrete.

BH326 and BH327 drilled within the active cooling lagoon encountered a thick layer of sediment at the bottom of the lagoon between 3.50 and 4.50 m below the water level. It was described as a black sandy silt with a strong hydrocarbon/sulphurous odour and sheen. This stratum is likely to have been deposited during the lifespan of the lagoon from the on site dust in the air from historical and on-going activities.

Table 16 Summary of Made Ground across Area 1

Exploratory Location	Depth (m)	Thickness (m)	Observations/obstructions
BH301	0.00	3.0	Gravelly sand with brick, concrete and rebar
BH302	0.00	3.60	Dense gravelly sand containing slag, some cobbles

Exploratory Location	Depth (m)	Thickness (m)	Observations/obstructions
BH302A	0.00	2.60	Dense gravelly sand containing slag, some cobbles
BH303	0.00	2.70	Gravel and cobbles. Slight hydrocarbon odour noted at 2.00 m
BH304	0.00	0.60	Gravelly sand containing slag and roadstone
BH305	0.00	3.20	Gravelly fill containing slag, roadstone, metal
BH306	0.00	>2.00	Concrete (0.90 m thick) onto gravel of metal and slag. Borehole terminated at 2.00 m due to suspected foundation
BH306A	0.00	>1.10	Concrete (0.90 m thick) onto gravel of metal and slag. Borehole terminated at 1.10 m due to probably scrap obstruction
BH306b	0.00	3.60	Reinforced concrete (0.90 m) onto sand and gravel of metal, and slag to 2.00 m bgl no cobbles and boulders of scrap metal and steel
BH307	0.00	1.00	Gravelly containing slag and concrete beneath a 0,40 m thick concrete later at surface
BH308	0.00	1.50	Gravelly containing slag and occasional wood
BH309	0.00	1.7	Concrete slab at 0.70 m bgl
BH310	0.00	3.00	Gravel onto clay containing slag, concrete and occasional rebar and timber
BH311	0.00	10.50	Granular fill containing slag, clinker and brick
BH312	0.00	6.00	Granular fill containing slag, clinker and brick
BH313	0.00	3.00	Granular fill containing slag, clinker and brick becoming reworked natural material from 1.20m
BH314	0.00	6.30	Granular fill containing slag
BH315	0.20	4.00	Strong hydrocarbon/creosote odour, sulphurous odour and an oil sheen present between 2.0-4.0m bgl
BH326	4.50	1.00	Musty sulphurous odour

Exploratory Location	Depth (m)	Thickness (m)	Observations/obstructions
BH327	3.50	2.00	Strong hydrocarbon odour and sheen
BH328	0.00	7.80	Granular and cohesive fill containing slag and occasional metal
BH329	0.00	4.00	Concrete obstructions at 1.40m bgl and 1.70m bgl. Large concrete slab between 1.70-2.10m, up to 7m long. Medium boulder content of concrete and brick

4.2.2 Blown Sand

A layer of fine to medium/coarse sand was often encountered directly beneath the Made Ground, up to a maximum thickness of 10.00 m (BH329). A summary is shown in **Table 17**. Standard penetration test (SPT) N-Values ranged between 2 to 50.

Table 17 Summary of Blown Sand Deposits across Area 1

Exploratory Location	Depth (m)	Thickness (m)	Observations
BH301	3.00	6.0	Medium dense to loose dark grey fine to coarse sand
BH304	0.6	1.90	Loose yellow brown fine to medium sand
BH307	1.00	7.00	Medium dense yellow brown gravelly sand
BH308	1.50	5.00	Loose becoming medium dense yellowish brown sand
BH309	1.70	7.30	Loose to medium dense brown fine to coarse sand
BH310	3.00	4.00	Loose to very dense light brown sand
BH311	10.50	8.25	Dense grey/dark brown clayey fine to medium sand
BH312	6.00	5.50	Very dense yellow brown fine to coarse sand
BH313	3.00	4.00	Loose yellow brown fine to coarse sand
BH326	5.50	1.10	Clayey silty fine to medium sand
BH327	8.50	1.50	Greyish brown fine to medium sand
BH329	4.00	10.0	Loose dry yellow brown fine to coarse sand

4.2.3 Tidal Flat Deposits

Tidal Flat Deposits were often recorded as interbedded layers of dark organic silt, clay, peat and sand of varying strengths and densities to a maximum thickness of 20.70 m (BH328). A summary is shown in **Table 18** SPT N-values ranged between 1 – 49.

Table 18 Summary of Tidal Flat Deposits across Area 1

Exploratory Location	Depth (m)	Thickness (m)	Observations
BH301	9.00	10.81	Firm greenish grey sandy silty clay, with occasional bands of sand and gravel
BH302	3.60	>3.70 (base not proven)	Borehole terminated due to ferrous anomaly
BH302A	2.60	17.40	Gravelly sand becoming clay with depth and occasional peat
BH303A	2.70	16.00	Sand, clay and peat
BH304	2.50	17.20	Sand, clay and peat
BH305	3.20	14.10	Sand, clay and peat
BH306B	3.60	13.40	Sand, clay and peat
BH307	8.00	12.00	Sand, clay and peat
BH308	6.50	11.00	Sand, clay and peat
BH309	9.00	7.00	Sandy silty clay or sandy clayey silt with peat
BH310	7.00	14.80	Clay and silt with occasional peat
BH311	18.75	10.75	Peat and clay becoming sand with depth
BH312	11.50	16.20	Loose silty sand, soft to firm silt, clay and layers of peat. Moderate organic odour
BH313	7.00	11.00	Firm and soft clay
BH314	6.30	10.20	Loose silty sand, soft to firm silt, clay and layers of peat. Moderate organic odour
BH315	4.00	12.80	Medium dense sand, soft to firm clay. Slight hydrocarbon odour between 4.00-7.50m bgl. Moderate organic odour between 10.80-16.80m bgl
BH325	5.00	12.50	Silty clay or clayey sandy silt and peat
BH326	6.60	12.40	Silty clay or clayey sandy silt and peat
BH327	10.00	8.00	Thick layers of peat and silty clay

Exploratory Location	Depth (m)	Thickness (m)	Observations
BH328	7.80	20.70	Firm becoming very soft organic silts clay with layers of peat. Medium dense silty fine sand
BH329	15.45	14.55	Medium dense fine silty sand over very stiff silty clay with peat. Becomes very soft sandy silty clay with organic odour and petrified wood

As stated above, peat was encountered within the Tidal Flat Deposits as summarised in **Table 19** below.

Table 19 Summary of peat within Area 1

Exploratory Location	Depth (m)	Thickness (m)	Observations
BH302A	10.70	2.30	Soft grey fibrous peat
BH303A	10.85	0.20	Firm orangish brown fibrous peat
BH304	11.50	0.50	Firm dark brown fibrous peat
BH305	11.00	1.50	Stiff brown peat
BH306B	10.45	2.05	Firm brown fibrous peat
BH307	11.60	13.80	Firm to stiff blackish red fibrous peat
BH308	11.90	2.50	Firm reddish brown fibrous peat
BH309	11.00	1.50	Brown fibrous peat
BH310	12.60	0.60	Firm reddish brown fibrous peat
BH311	18.75	1.25	Stiff brown fibrous peat
BH312	18.00	1.50	Stiff brown fibrous peat
BH314	10.90	2.30	Firm dark greyish brown clayey peat
BH317	8.90	0.20	Very soft dark brown peat
BH318	8.20	1.50	Firm brown peat
BH320	6.30	1.50	Firm brown fibrous peat
BH321	4.70	0.10	Brown peat
BH321	7.60	0.50	Firm dark brown fibrous peat
BH322	7.50	1.50	Soft brown fibrous peat
BH325	11.00	1.70	Firm reddish brown fibrous peat
BH326	10.50	1.10	Firm brown fibrous peat
BH327	10.00	2.00	Firm dark reddish brown fibrous peat

Exploratory Location	Depth (m)	Thickness (m)	Observations
BH327	16.50	16.80	Firm brown fibrous peat

4.2.4 Glaciofluvial Deposits

Glaciofluvial deposits were encountered beneath the Tidal Flat Deposits, at depths of between 15.00 m bgl (BH301) and 18.70 m bgl (BH303) and predominantly contained gravels and boulders. A summary is shown in **Table 20** below. SPTs undertaken within this stratum often reached refusal (N-value = 50) and N-values were frequently recorded in the upper 30's or 40s. An outlier of N=11 was recorded in BH301.

Table 20 Summary of Glaciofluvial Deposits across Area 1

Exploratory Location	Depth (m)	Thickness (m)	Observations
BH301	15.00	10.05	Gravelly clay or clayey sand with moderate cobble content of mudstone/sandstone
BH303	18.70	3.30	Dense sandy gravel

4.2.5 South Wales Coal Measures

The South Wales Coal Measures were encountered as mudstone and coal at depths of between 27.00 (BH309) and 37.50 m (BH328). Coal was present in BH328 between 37.50 m bgl and 39.38 m bgl (base not proven). A summary is shown in **Table 21** below.

Table 21 Summary of South Wales Coal Measures across Area 1

Exploratory Location	Depth (m)	Thickness (m)	Observations (incl coal)
BH301	19.81	>5.24	Cohesive becoming granular with depth containing sandstone and mudstone. Rockhead not proven
BH302A	20.00	>7.45	Weathered mudstone gravel becoming clay. Rockhead not proven
BH303A	22.00	>6.80 (base not proven)	Weathered mudstone clay becoming weak rock at 28.10 m
BH304	19.70	>54.50	Weathered granular horizons, mainly comprising cobbles, rock head encountered at 28.90 m predominately mudstone with some coal seams and sandstone
BH305	17.30	>9.70	Encountered weathered as granular becoming cohesive-rockhead not proven
BH306B	17.00	>13.12	Weathered cohesive becoming granular. Rockhead proven at 27.80 m

Exploratory Location	Depth (m)	Thickness (m)	Observations (incl coal)
BH307	22.00	>5.60	Encountered weathered as granular becoming cohesive. Rockhead not proven
BH308	17.50	10.95	Weathered horizons mixture of granular and cohesive horizons. Rockhead encountered at 27.90 m
BH309	16.00	14.14	Weathered horizons mixture of granular and cohesive horizons. Rockhead encountered at 27.00 m
BH310	29.70	-	Possible rockhead
BH311	36.00	1.45 (base not proven)	Mudstone (no coal)
BH312	34.70	3.75 (base not proven)	Mudstone (no coal)
BH325	17.50	12.53 (base not proven)	Weathered (recovered as gravel becoming clay) bedrock at 27.60 m
BH326	27.00	5.00 (base not proven)	Siltstone (no coal)
BH328	28.50	>10.88	Weathered granular and cohesive horizons onto Coal between 37.50 m – 39.38 m base not proven
BH329	36.40	1.37 (base not proven)	Mudstone (no coal)

4.3 Area 2 – Associated Development Zone (lay-down areas/roads/Car Parks)

The exploratory holes in Area 2 showed a variable thickness of Made Ground over several types of superficial deposits (blown sands, tidal flats and glaciofluvial) with South Wales Coal Measures encountered at depth. This corresponds to the published geological maps and previous site investigations carried out by RSK.

4.3.1 Made ground

Made Ground was encountered from ground level at all locations up to a maximum thickness of 6.50 m (BH330).

Made Ground frequently contained gravel/cobbles of slag and varying amounts of other anthropogenic materials such as ash, slag, brick, ash, metal, clinker, tarmac and concrete. A summary is shown in **Table 22** below.

Table 22 Summary of Made Ground across Area 2

Exploratory Location	Depth (m)	Thickness (m)	Observations
BH316	0.00	3.00	Concrete obstruction/inspection chamber encountered at 3.00 m bgl
BH316a	0.00	3.30	Slight hydrocarbon odour
BH317	0.00	4.10	Gravel and sand containing brick, slag and some coal and wood
BH318	0.00	6.00	Gravelly fill containing slag, brick and coal. Sand layer between 1.30 m and 3.60 m bgl
BH319	0.00	2.50	Gravel of brick and some slag cobbles
BH320	0.00	3.00	Gravelly with ash and slag, clay between 1.50 m and 2.00 m bgl
BH321	0.00	1.00	Gravel of slag, brick and tarmac some slag cobbles an occasional metal
BH322	0.00	4.40	Large piece of steel at 1.00 m bgl (1.70 m x 0.10 m x 0.15 m)
BH323	0.0	3.40	Refused at 3.40 m bgl
BH323A	0.00	6.10	Gravel and cobbles of slag and mudstone with depth
BH324	0.00	4.00	Gravel and sand containing brick, slag and some mudstone and occasional slay cobbles
BH330	0.00	6.50	Gravel and cobbles with clay layer between 4.50 m and 5.50 m bgl
BH331	0.00	6.30	Gravel and sand with clay layer between 3.20 m and 3.80 m bgl

4.3.2 Blown Sand

A layer of fine to medium/coarse sand was often encountered directly beneath the Made Ground, up to a maximum thickness of 4.40 m bgl (BH316). A summary is shown in **Table 23** below. Recorded SPT N-values ranged between 2 to 17.

Table 23 Summary of Blown Sand Deposits across Area 2

Exploratory Location	Depth (m)	Thickness (m)	Observations
BH316a	3.30	4.40	Medium dense greyish brown fine to medium sand
BH319	2.50	2.00	Medium dense brown fine to coarse sand

Exploratory Location	Depth (m)	Thickness (m)	Observations
BH321	1.00	3.00	Yellowish brown fine to coarse sand.

4.3.3 Tidal Flat Deposits

Tidal Flat Deposits were often recorded as interbedded layers of dark organic silt, clay, peat and sand of varying strengths and densities to a maximum thickness of 13.50 m (BH320). A summary is shown in **Table 24** below. SPT N-Values ranged between 1 to 25.

Table 24 Summary of Tidal Flat Deposits across Area 2

Exploratory Location	Depth (m)	Thickness (m)	Observations
BH316a	7.70	8.30	Soft clay with occasional sand
BH319	4.50	12.00	Very soft clay
BH320	3.00	13.50	Clay with peat
BH322	4.40	5.10	Soft silty clay or sandy silt with peat
BH324	4.00	9.50	Loose clayey sand, very soft to soft organic silty clay and peat
BH331	6.30	10.0	Interbedded very soft to soft sandy silty organic clay (slight to strong organic odour) with medium dense fine to medium sand

As stated above, peat was encountered within the Tidal Flat Deposits as summarised in **Table 25** below.

Table 25 Summary of peat within Area 2

Exploratory Location	Depth (m)	Thickness (m)	Observations
BH317	8.90	0.30	Soft dark brown peat- strong organic odour
BH318	8.20	1.50	Firm brown peat
BH320	6.30	1.50	Firm brown fibrous peat
BH321	4.70	0.10	Brown peat
BH321	7.60	0.50	Firm dark brown fibrous peat
BH322	7.50	1.50	Soft brown fibrous peat

4.3.4 Glaciofluvial Deposits

Glaciofluvial deposits were encountered beneath the Tidal Flat Deposits, at depths of between 9.50 m (BH322) and 16.50 m (BH319) and predominantly contained gravels and boulders. Standard penetration tests. A summary is shown in **Table 26** below. N-Values were generally in the 30s to 50s, whilst the lowest value recorded was 6 in BH331.

Table 26 Summary of Glaciofluvial Deposits across Area 2

Exploratory Location	Depth (m)	Thickness (m)	Observations
BH316a	16.00	12.22	Dense sandy clayey gravel with high cobble content of mudstone/siltstone and sandstone
BH317	14.00	9.50	Dense sand becoming sandy clayey gravel with high cobble content of mudstone/siltstone and sandstone
BH319	16.50	4.80	Medium dense clayey gravel and cobbles of mudstone
BH321	10.00	13.50	Medium dense gravel with high cobble content
BH322	9.50	-	Medium dense gravel with high cobble content
BH323A	10.00	15.20	Very dense gravel and cobbles-clay layer present between 17.50 m and 21.00 m bgl
BH324	13.50	8.50	Dense gravel and cobbles of mudstone and sandstone. Firm to stiff very gravelly clay with high cobble content
BH331	16.30	9.40	Dense to very dense sandy silty clayey gravel/ medium dense clayey sand/ very stiff sandy gravelly silty clay

4.3.5 South Wales Coal Measures

The South Wales Coal Measures were encountered as mudstone and coal at depths of between 15.50 m bgl (weathered) (BH322) and 25.70 m bgl (BH331). Coal was present in BH320 between 48.50 m bgl and 50.70 m bgl. A summary is shown in **Table 27** below.

Table 27 Summary of South Wales Coal Measures across Area 1

Exploratory Location	Depth (m)	Thickness (m)	Observations (incl coal)
BH319	21.30	0.95 (base not proven)	Mudstone (no coal)
BH320	20.00	>38.00 (base not proven)	Coal noted between 48.50 m and 50.70 m (unweathered)
BH321	10.00	>15.07	Weathered gravel and cobbles becoming clay
BH322	15.50	26 (base not proven)	Weathered becoming weak rock Sandstone, siltstone, mudstone. Coal between 54-59 m and 74.8-76.0 m (base not proven)

Exploratory Location	Depth (m)	Thickness (m)	Observations (incl coal)
BH323	17.50	>40.02	Weathered clay becoming granular- rock head encountered ta 25.20m. Coal bands between 31.30 and 31.70 m, 32.60 and 33.30 m, 36.20 and 36.80 m and 55.00 m and 55.60 m
BH324	22.00	53.10 (base not proven)	Interbedded mudstone and siltstone/fine sandstone. Coal bands between 26.50-26.65 m, 27.40-29.50m, 44.50-46.35 m, 53.70-54.0 and 73.70-74.50 m
BH330	25.20	>9.80	Coal at 25.20 m onto siltstone at 26.00 m
BH331	25.70	4.33 (base not proven)	Mudstone (no coal)

4.3.6 Visual/olfactory evidence of soil contamination

During the most recent investigation works visual and/or olfactory evidence for soil contamination (sheens and strong hydrocarbon odours, as well as creosote odour in BH315) were encountered predominantly in the Made Ground in the storage area to the south (BH315) of the existing BOS plant/lagoon car par and in the soil beneath the lagoon (BH327). BH315 is situated in the southeast of Area 1 and BH327 in the central part of Area 1. Slight hydrocarbon odours were also noted in BH303 and BH308 to the north if the lagoon in Area 1 and BH316 in Area 2 in the vicinity of the proposed workshop. From the trial pit logs, visual and olfactory signs of contamination (hydrocarbon/asphalt odours) were predominately observed in the DLS Regeneration Yard area, with the worst impact observed in made ground in TP397, where strong hydrocarbon/asphalt odours were noted as well as sand coated in oil to a depth of 0.60 m bgl.

During the previous Project Cronus works visual and/or olfactory evidence for soil / groundwater contamination was predominately observed in the vicinity of BH202, BH204, TP207, TP208, TP210 and TP397 in the DLS Regeneration Yard, where former coke ovens were previously located. In this area, strong hydrocarbon odours and sheens were recorded on water seepages/strikes as well as the highest PID reading to date (1200ppm BH202 at 12.00 m bgl). In BH202, visual and olfactory signs of contamination were observed predominantly in the natural deposits (peat, silts and sand), with no signs of contamination observed below 15.20 m bgl at which point PID readings also reduced to 0.5ppm. Visual and olfactory signs of contamination were locally observed in other areas across the site, during Project Cronus but to a lesser extent.

Visual asbestos was not encountered in any of the exploratory holes completed during this phase of works, but ACM cement fragments were observed in made ground during Project Cronus in TP04 at 1.35 m to 1.40 m bgl.

A summary of the visual and olfactory signs of contamination encountered during this investigation are summarised in **Table 28** and from Project Cronus in Table 29. A PID meter was used during the investigation, all readings are reported in the exploratory logs.

Table 28 Summary of visual/olfactory evidence of contamination

Exploratory Location	Strata	Thickness (m)	Observations
BH303A	Made Ground	2.00- 2.70	Slight hydrocarbon odour
BH308	Made Ground	0.90-1.50	Slight hydrocarbon odour
BH315	Made Ground	2.00 - 4.0	Strong hydrocarbon/creosote odour, sulphurous odour and oil sheen
BH315	Tidal Flat deposits	4.00- 7.50	Slight hydrocarbon odour
BH316a	Made Ground	1.50-3.3	Slight hydrocarbon odour
BH325	Tidal Flat Deposits	5.00 – 6.3	Musty sulphurous odour
BH326	Made Ground (lagoon sludge)	4.50 - 5.5	Musty sulphurous odour
BH327	Made Ground (lagoon sludge)	3.50 - 5.5	Strong hydrocarbon odour and sheen
TP341	Made Ground	2.00 – 2.80	Strong hydrocarbon odour
TP371	Made Ground	0.30 – 0.80	Slight hydrocarbon odour
TP374	Made Ground	1.40-2.90	Strong hydrocarbon odour
TP375	Made Ground	1.60 – 3.10	Hydrocarbon odour
TP376	Made Ground	0.50 – 2.6	Strong hydrocarbon odour
TP397	Made Ground	0.00 – 0.60	Strong hydrocarbon/ asphalt odour
TP399	Made Ground	0.00– 0.80	Slight hydrocarbon odour

Table 29 Summary of visual/olfactory evidence of contamination from Project Cronus

Exploratory Location	Strata	Depth (m BGL)	Observation
TP06	Made ground	0.20	Moderate hydrocarbon odour noted
TP08	Made ground	1.60	Slight hydrocarbon odour noted
TP09	Made ground	2.00	Slight hydrocarbon odour noted
TP10	Made ground	0.60	Slight hydrocarbon odour noted
TP19	Made ground	From ground level	Product and hydrocarbon odour
TP22	Made ground	1.60	Slight hydrocarbon odour noted
TP26	Made ground	0.90	Slight hydrocarbon odour noted
TP201	Made ground	1.30	Strong hydrocarbon odour noted
TP202	Made ground	1.70	Sheen on water seepage. Oil slick/sheen on soil noted
TP203	Made ground	1.20	Moderate hydrocarbon odour noted
TP204	Made ground	1.80	Coal tar/ hydrocarbon odour noted
TP205	Made ground	1.40	Sheen on water noted
TP207	Made ground	0.80	Sheen on water and Coal Tar odour noted
TP208	Made ground	From ground level	Strong hydrocarbon odour noted
TP210	Made ground	0.15	Strong hydrocarbon odour noted
TP210	Made ground	0.95	Sheen on water. Extremely strong Hydrocarbon odour noted.
TP232	Made ground	1.00	Hydrocarbon odour noted
TP232	Made ground	2.00	Sheen on water noted
TP234	Made ground	1.30	Visual hydrocarbon contamination noted
BH201	Made ground	0.15	Slight hydrocarbon odour noted
BH201	Made ground	1.40	Visual contamination and moderate hydrocarbon odour noted
BH201	Tidal Flat Deposits	5.00	Slight hydrocarbon odour noted
BH202	Tidal Flat Deposits	5.00	Strong hydrocarbon odour and slight sheen on soil noted, PID 250ppm
BH202	Tidal Flat Deposits	7.20	Strong hydrocarbon odour noted, PID 300ppm
BH202	Tidal Flat Deposits	9.00	Strong hydrocarbon odour noted, PID 700ppm
BH202	Tidal Flat Deposits	12.00	Visual contamination and strong hydrocarbon odour noted, PID 1200ppm
BH203	Made Ground	From ground level	Slight hydrocarbon odour noted

Exploratory Location	Strata	Depth (m BGL)	Observation
BH203	Made Ground	1.90	Visual staining contamination and moderate hydrocarbon odour noted
BH203	Made Ground	3.00	Slight hydrocarbon odour noted
BH204	Made Ground	1.40	Strong hydrocarbon odour noted, PID 103ppm
	Tidal Flat Deposits	4.50	Slight hydrocarbon odour noted
BH205	Made Ground	5.80	Possible visual contamination noted
BH208	Made Ground	0.80	Moderate hydrocarbon odour noted
BH209	Made Ground	1.60	Moderate hydrocarbon odour noted

4.4 Groundwater

4.4.1 Groundwater encountered during intrusive works

Groundwater was encountered during these intrusive works as summarised in **Table 30**. The groundwater water encountered during Project Cronus is summarised in **Table 31**.

Table 30 Summary of groundwater results observed during fieldwork

Exploratory Location	Strata	Groundwater depth (m)	Comments
BH301	Made Ground	2.50	Strike
BH302A	Made Ground	2.18	Strike
BH303A	Made Ground	2.64	Strike
BH305	Made Ground	2.43	Strike
BH306B	Made Ground	1.50	Strike- significant flow
BH307	Made Ground	2.40	Strike
BH308	Made Ground	2.10	Strike
BH310	Made Ground	3.31	Strike
BH313	Blown Sand	5.60	Strike
BH314	Made Ground	1.20	Strike
BH315	Made Ground	1.50	Strike
BH316a	Made Ground	2.10	Seepage
BH317	Made Ground	2.30	Strike
BH318	Made Ground	3.00	Strike
BH319	Blown Sand	3.20	Strike
BH320	Made Ground	2.60	Strike

Exploratory Location	Strata	Groundwater depth (m)	Comments
BH321	Tidal Flat Deposits	9.00	Strike
BH322	Tidal Flat Deposits	9.50	Strike
BH323	Made Ground	2.50	Strike
BH324	Made Ground	2.00	Seepage
BH325	Tidal Flat Deposits	9.20	Strike
BH326	Tidal Flat Deposits	11.00	Strike
BH327	Tidal Flat Deposits	11.20	Strike
BH328	Tidal Flat Deposits	12.20	Strike
BH329	Made Ground	1.70	Seepage
BH330	Made Ground	1.80	Strike
BH331	Made Ground	4.00	Seepage
TP3001	Made Ground	2.00	Seepage
TP3002	Made Ground	2.50	Seepage
TP308	Made Ground	1.40	Seepage
TP309	Made Ground	2.10	Seepage
TP310	Made Ground	2.00	Seepage
TP311	Made Ground	2.40	Seepage
TP312	Made Ground	2.30	Seepage
TP325	Made Ground	3.30	Seepage
TP386	Made Ground	2.40	Seepage
TP392	Made Ground	3.30	Seepage

Table 31 Summary of groundwater results observed during fieldworks from Project Cronus investigation

Exploratory Location	Strata	Groundwater depth	Comments
TP06	Made Ground	1.20	Seepage
TP08	Made Ground	1.50	Seepage
TP09	Made Ground	2.00	Seepage
TP11	Made Ground	2.20	Seepage

Exploratory Location	Strata	Groundwater depth	Comments
TP13	Made Ground	2.90	Seepage
TP19	Made Ground	2.00	Seepage
TP21	Made Ground	1.80	Seepage
TP22	Made Ground	1.60	Seepage
TP23	Made Ground	1.20	Seepage
TP26	Made Ground	2.70	Seepage
TP28	Made Ground	2.20	Seepage
TP43	Tidal Flat Deposits	1.50	Seepage
TP44	Tidal Flat Deposits	2.00	Seepage
TP47	Tidal Flat Deposits	1.50	Seepage
TP48	Tidal Flat Deposits	1.50	Seepage
TP49	Tidal Flat Deposits	2.00	Seepage
TP50	Tidal Flat Deposits	1.50	Seepage
TP51	Made Ground	1.30	Seepage
TP53	Made Ground	1.00	Seepage
TP56	Made Ground	0.30 & 2.00	Seepage at 0.30m
TP57	Made Ground	2.00	Slow Inflow
TP58	Made Ground	1.80	Slow Inflow
TP59	Made Ground	1.50	Slow Inflow
TP201	Made Ground	2.60	Seepage
TP202	Made Ground	1.70	Fast Inflow
TP203	Made Ground	2.20	Seepage
TP204	Made Ground	2.00	Seepage
TP205	Made Ground	1.40	Seepage
TP206	Made Ground	2.00	Slow Inflow
TP207	Made Ground	0.90	Fast Inflow
TP208	Made Ground	1.00	Seepage
TP209	Made Ground	1.40	Seepage

Exploratory Location	Strata	Groundwater depth	Comments
TP210	Made Ground	1.80	Seepage
TP211	Made Ground	1.00	Seepage
TP227	Made Ground	2.20	Seepage

4.4.2 Groundwater encountered during monitoring

Resting groundwater levels recorded during the monitoring programme are summarised in **Table 32**. Field records are provided in **Appendix E.**

Table 32 Summary of groundwater monitoring results

Monitoring well	Response zone stratum	GL elevation (m AOD)	Min depth to water (mbgl)	Max depth to water (mbgl)	Groundwater elevation (m AOD) – min.	Groundwater elevation (m AOD) – max.
BH301	Tidal Flat Deposits	8.417	1.33	1.40	7.087	7.017
BH311	Tidal Flat Deposits	16.231	DRY	7.54	-	8.691
BH315	Tidal Flat Deposits	7.758	0.07	1.32	7.688	6.438
BH317	Tidal Flat Deposits	6.761	2.15	2.58	4.611	4.181
BH322	Tidal Flat Deposits	6.586	3.14	3.38	3.446	3.206
BH324	Tidal Flat Deposits	5.358	0.94	1.43	4.418	3.928
BH328	Tidal Flat Deposits	17.308	10.36	10.55	6.948	6.758
BH329	Tidal Flat Deposits	17.308	10.03	11.18	7.278	6.128
BH330	Tidal Flat Deposits	6.34	1.95	2.54	4.39	3.8
BH331	Tidal Flat Deposits	7.543	3.14	3.37	4.403	4.173

The findings reflect the groundwater table in the Tidal Flat Deposits, which was recorded at an elevation of 8.691 m to 3.206 m AOD. It is noted that the gauging data presented in **Table 32** was not completed within a short timeframe i.e. at the same state of the tide, therefore, a piezometric flow drawing has not been created. The groundwater monitoring results from Project Cronus are summarised in **Table 33** below.

Table 33 Summary of groundwater monitoring results from Project Cronus

Monitoring well	Response zone stratum	Min Depth to water (mb TOC)	Max Depth to water (mb TOC)
BH1 (shallow)	Made ground	2.05	2.18
BH1 (deep)	Natural ground	2.05	2.18
BH2 (shallow)	Made ground	0.35	0.53
BH2 (deep)	Natural ground	3.87	0.53
BH3 (shallow)	Made ground	0.82	0.93
BH3 (deep)	Natural ground	3.75	4.03
BH4 (shallow)	Made ground	2.045	2.28
BH4 (deep)	Natural ground	2.45	2.65
BH5	Natural ground	2.92	2.97
BH8	Natural ground	1.90	1.96
BH10	Natural ground	1.09	2.64
BH11	Natural ground	0.28	0.90
BH12 (shallow)	Made Ground	2.16	2.20
BH12 (deep)	Natural ground	2.66	2.71
BH13	Natural ground	1.07	1.38
BH201	Natural ground	1.95	2.19
BH202	Natural ground	2.97	3.27
BH203	Natural ground	0.85	1.25
BH204	Natural ground	3.82	4.75
BH205	Natural ground	2.29	2.44
BH207	Natural ground	3.20	3.74
BH208	Natural ground	2.43	2.75
BH209	Natural ground	2.00	2.30
Notes	*TOC- Top of cover* *AOD- Above Ordnance Datum*		

It should be noted that groundwater levels might fluctuate for a number of reasons including seasonal and tidal variations that is not captured in the above monitoring programme. From continual monitoring carried out during the supplementary work from Project Cronus, tidal patterns were indeed identified, these are likely to be similar in the areas of the proposed development due to the strata likely being in hydraulic continuity.

4.4.3 Visual/olfactory evidence of groundwater contamination

No visual/olfactory evidence of contamination in groundwater was noted during well development, monitoring and sampling. During the sampling of the boreholes in the area of the former Coke ovens a sheen was noted, most notable from samples obtained from BH202 and BH207.

4.5 Chemical laboratory results

The soil and groundwater testing results are presented in **Appendix F and G**.

4.6 Geotechnical laboratory results

Geotechnical testing is currently on-going and will be reported under a separate report.

4.7 Ground gas monitoring

The results of the ground gas monitoring and testing carried out to date are provided in **Appendix E.** It is noted that continuous gas and flow monitoring has previously completed at the site using Ambisense GasfluX devices installed in BH201 to BH209 excluding BH206 over an 8 week period, to investigate the organic strata (peat) deposits encountered at the site. Flow rates over the eight week period remained low with a maximum flow rate of 2.11l/hr recorded in BH203, with a maximum methane concentration of 41.01%vol and maximum carbon dioxide concentration of 3.82%vol. This data has also been considered in the ground gas assessment detailed in this report, please refer to Section 5.5.

5 GEO-ENVIRONMENTAL ASSESSMENT

5.1 Refinement of initial CSM

The nature, composition and thickness of Made Ground encountered in the areas of previous developments encountered was as anticipated from the initial CSM. However, no complete contaminant linkages with a risk of moderate or higher were identified. The findings of this investigation are in line with our initial CSM and the findings of the previous site investigation works and as such no refinement of the CSM is considered warranted.

To assess the general ground conditions analysis of soils were undertaken by RSK as part of the Phase 2 investigation.

5.2 Linkages for assessment

As described in LCRM (Environment Agency, 2023), there are two stages of quantitative risk assessment (QRA), Tier 2 generic (GQRA) and Tier 3 detailed (DQRA). The GQRA comprises the comparison of soil, groundwater, soil gas and / or ground gas results with generic assessment criteria (GAC) that are appropriate to the linkage being assessed. This comparison can be undertaken directly against the laboratory results or following statistical analysis depending upon the sampling procedure that was adopted. This assessment relates to LCRM Stage 1, Tier 2 GQRA.

5.3 Generic quantitative risk assessment

The receptors (**R**) and the associated potentially complete contaminant linkages that require further assessment are detailed below:

- **R1** future site users – industrial workers [**H1, H2** oral, dermal and inhalation exposure with impacted soil, soil vapour and dust/fibres and **G1** ground gases]
- **R3** future buildings and services [direct contact with contaminated soils or groundwater and chemical attack]
- **R4** Surface water in the Bristol Channel [dissolution followed by lateral migration in groundwater in secondary aquifer within superficial deposits and the Lower Mother Ditch]

The potentially complete contaminant linkages that require further assessment and the methodology of assessment are presented in each section. **R3** will be reported and assessed with the separately reported geotechnical design report (GDR).

5.4 Methodology and assessment of human health linkages

The linkages pertaining to human exposure to chemical contamination are as follows:

- **H1**. Oral, dermal and inhalation exposure with impacted soil, soil vapour and dust by future site users
- **H2**. Inhalation exposure of future site users to asbestos fibres
- **G1**. Ground gases exposure.

5.4.1 H1. Oral, dermal and inhalation exposure with impacted soil by future occupants/site users

Soil contaminant concentrations have been compared against Human health GAC for a commercial land use based on 1% soil organic matter in **Appendix H.** The groundwater analysis results from this phase of works and those collected as part of Project Cronus, have been compared to the RSKs groundwater assessment criteria (GrAC), also presented in **Appendix H**, which were derived to assess potential vapour risks from volatilisation of contaminants of concern in groundwater.

In order to assess the soil results against the appropriate GAC, the soil results have been split into appropriate data sets relevant to the material identified on site.

The datasets being considered in the assessment are:

- data set 1 Made Ground
- data set 2 Natural

All soil sampling results have been compared with the commercial GAC. A soil organic matter (SOM) of 1% has been selected based on the most conservative value available for this assessment. The soil and groundwater (human health GAC and GrAC assessments) screening output spreadsheets are presented as **Appendix J**.

The exceedances in soil GACs from this phase of works are summarised in **Table 34**. None of the measured concentrations in groundwater during this phase of works were found to be in excess of the GrAC.

Table 34 Data summary table- made ground

Determinand	GAC (mg/kg)	No of exceedances	Maximum concentration (mg/kg)	
			Value	Location - depth (m bgl)
Aromatic >C10-C12	16000	1	150000	TP397- 0.00*
Benzene	27	1	43	TP397- 0.00*
Benzoanthracene	170	1	310	TP397- 0.00*
Benzo(a)pyrene	77	1	180	TP397- 0.00*
Dibenz(a,h)anthracene	3.5	2	47	TP397- 0.00* (2nd exceedance TP309 at 0.4m bgl (3.9mg/kg))
*The near surface soils were heavily stained and had a strong hydrocarbon odour				

No exceedances were noted in the natural soils during this investigation.

It is noted that the tier 1 values were also exceeded for naphthalene, fluorene, as well as aliphatic and aromatics in the range > C10-C16 in a number of locations. One or more of these determinants exceeded the tier 1 values, which are theoretical soil saturation limits in BH312, TP302, TP399, TP397, TP375, TP374 and TP341. Given that the relevant contamination pathway here is migration to indoor air and none of these locations are situated near to the proposed warehouse or office building, these tier 1 exceedances are not considered to be of concern.

The soil exceedances from Project Cronus are shown in **Table 35** and **Table 36**. None of the measured concentrations in groundwater during this phase of works were found to be in excess of the GrAC.

Table 35 Data summary table — Made Ground from Project Cronus

Determinand	GAC (mg/kg)	No of exceedances	Maximum concentration (mg/kg)	
			Value	Location - depth (m bgl)
Lead	2300	1	10600	TP19 – 0.2
Aromatic >C10-C12	16000	2	290000	TP208 - 0.2
Aromatic >C16-C21	28000	1	28200	TP208 - 0.2
Benzo(a)anthracene	170	1	866	TP208 - 0.2
Benzo(a)pyrene	77	1	464	TP208 - 0.2
Benzo(b)fluoranthene	44	4	953	TP208 - 0.2
Chrysene	350	1	1170	TP208 - 0.2
Dibenzo(ah)anthracene	3.5	5	118	TP208 - 0.2
Naphthalene	1800	2	51300	TP208 - 0.2

Table 36 Data summary table- Natural Soil from Project Cronus

Determinand	GAC (mg/kg)	No of exceedances	Maximum concentration (mg/kg)	
			Value	Location - depth (m bgl)
Aromatic >C10-C12	16000	3	80800	BH202 - 9.00
Aromatic >C12-C16	36000	3	151000	BH202 - 9.00
Benzene*	27	3	269	BH202 - 9.00
Benzene**	27	2	51.6	BH202 – 7.50
Naphthalene	1800	4	19400	BH202 – 9.00
*Benzene identified by testing through TPH CWG. **Benzene identified by testing VOCs.				

During the Project Cronus investigation, the tier 1 values (soil saturation limits) were also exceeded, however, the relevant contaminant pathway relates to indoor air migration and since none of these locations were located in the vicinity of the proposed warehouse and office building footprints the exceedances are not of concern (see 5.4.1.1 below).

5.4.1.1 Summary

On the basis of the above assessment, exceedances were recorded within the natural soils during the Project Cronus investigation. No exceedances were noted in the natural soils during the current investigation reported within.

It is considered that there are potential risks associated with the soil contamination within the Tidal Flat Deposits and the near surface soils, within the area of the former Grange Coke Ovens with respect to human health.

Based on the contaminants identified in excess of the commercial GAC, potential risks to human health are, with the exception of benzene, driven by dust inhalation pathways. As such, these contaminants are not considered to pose a risk if present in areas proposed to be covered by hardstanding, and by the inclusion of a clean cover system in soft landscaped areas which will mitigate potential risks to human health by breaking the direct contact pathways including dust inhalation.

Potential risks from benzene are driven by vapour inhalation pathways in indoor air. Potential risks from vapour inhalation have been assessed based on a lines of evidence approach as follows:

- benzene was only identified in BH202 at concentrations in excess of the commercial end-use GAC and this location is greater than 350 m to the proposed office and warehouse buildings
- none of the measured concentrations in groundwater exceeded the GrAC
- in the exploratory hole locations completed closest to the areas of the proposed office and warehouse buildings (BH316a, BH203, TP214, TP215, TP324, TP366, TP306, TP323) visual and olfactory evidence of contamination (such as hydrocarbon odours and staining, sheen and coal tar/creosote odours) were absent, except for slight hydrocarbon odours noted in BH316a at 1.50 m to 3.30 m bgl, which correspond to a PID reading of <0.1ppm
- PID readings in the exploratory holes closest to the areas of the proposed office and warehouse buildings have been reported at concentrations generally below or in the same order of magnitude as the instrument detection limit (<0.1ppm).

Based on the above there is not considered to be an unacceptable risk posed to human health via vapour inhalation.

Consideration will need to be given to any potential reuse of soils at the site during proposed redevelopment works, for instance any materials observed to contain gross contamination such as heavy staining and/or free phase product or visible ACM shall not be suitable for re-use (unless treated to render it suitable for re-use under a Remedial Strategy) or will require off-site disposal. Should levels in the vicinity of the proposed buildings be required to be raised, any materials proposed to be re-used in this area should be tested to confirm geotechnical and chemical suitability for use prior to placement.

5.4.2 H2. Inhalation exposure of future occupants/site users to asbestos fibres

Based on the 87 samples from this investigation screened for asbestos, three have tested positive; BH304 at 0.50 m (amosite and chrysotile at 0.002% quantifiable volume), TP375 at 1.60 m bgl (chrysotile <0.001% quantifiable volume) and BH319 at 0.50 m (chrysotile at 0.004% quantifiable volume) as free fibres.

In addition, during the previous Cronus investigations relevant to the EAF site area cement bonded ACM was identified within TP04 and seven samples where asbestos was present as free fibres (TP28, TP30, TP53, TP55, TP208, TP211, TP224 (0.50 m bgl and 1.10 m bgl). Of these four samples were then further analysed and quantified with between <0.001 and 0.009% by weight recorded. In all cases the asbestos was found to be present as free fibres with the maximum

(0.009%) recorded in TP53. In addition, a fragment of cement bonded ACM was confirmed within TP04. Asbestos was not recorded within samples of natural soils.

Based on the above, a potential linkage is confirmed which could present an unacceptable risk to future end workers and construction workers if not mitigated. It is recommended that in areas of soft landscaping a clean cover system is implemented using clean, imported material in order to mitigate the risk of inhalation exposure from asbestos fibres during future use of the site. Furthermore, a good working practice should be implemented by the groundworkers to mitigate the risk of asbestos during redevelopment works, this should be included in their construction environmental management plan (CEMP).

5.5 G1: Methodology and assessment of ground gas-related linkages

5.5.1 Appropriate guidance

The risks to development from ground gases have been assessed in accordance with BS8485:2015+A1:2019 (BS8485), which provides guidance on ground gas (methane and carbon dioxide) characterisation and hazard assessment, as well as providing a framework for the prescription of protection measures within new buildings.

The process involves characterising the gas hazard from combining the qualitative assessment of risk (using the CSM) with ground investigation data so that a 'characteristic situation' (CS) can be derived for the site or zones within the site. Characteristic situations range from CS1 to CS6, the higher the CS, the higher the hazard potential. Gas protection measures within new buildings can be prescribed using a point scoring system, taking into consideration the CS and the proposed building type.

BS8485 indicates that the gas hazard can be characterised using the following methods:

- an empirical semi-quantitative approach using gas monitoring data to determine the 'characteristic situation' of the site (or zones of the site) and subsequent protective measures (Wilson and Card approach).
- an empirical semi-quantitative approach using TOC data to determine the 'characteristic situation' of the site (or zones of the site) and subsequent protective measures (CL:AIRE RB17 approach).

Based on the conceptual site model, Wilson and Card approach has been used to characterise the gas hazard and aid provision of advice on the protective measures that may be required within buildings at the site.

5.5.2 Summary of the refined CSM for ground gas

In the assessment of risks and selection of appropriate mitigation measures, BS8485 highlights the importance of the conceptual model. In summary, potential sources of ground gas within influencing distance of the site identified in Section 2.5 comprise:

- organic rich natural soils (peat)
- on site made ground.

Pathways and receptors for ground gas were identified as:

- building foundations, piled foundations and vibro-stone columns
- construction joints and cracks within building structure
- utility routes and service penetrations into buildings

This assessment has been undertaken to assess risks to building structures and proposed end users. The assessment has not taken into consideration the health and safety of construction workers. Risks may still be present to construction workers especially where works include the entry into excavations within the ground. Construction workers should undertake appropriate risk assessments and risks should be managed through health and safety procedures and safe systems of work.

The risk assessment has been undertaken based on the current understanding of the CSM.

5.5.3 Empirical semi-quantitative approach using borehole monitoring data (Wilson and Card approach, BS8485)

5.5.3.1 Background

The empirical semi quantitative approach using gas monitoring data requires the designation of a gas screening value (GSV) for the entire site or zones within the site, which informs the hazard potential and associated prescribed ground gas protection measures within new buildings (where necessary). BS8485 defines the GSV as the *'flow rate (l/hr) of a specific hazardous gas* ***representative of a site or zone****, derived from assessment of borehole concentration and flow rate measurements and taking account of all other influencing factors, in accordance with a conceptual site model'.*

BS8485 Section 6.3.1 outlines the process for developing a GSV for the site or a zone as follows:

- borehole hazardous gas flow rate (Q_{hg}) is calculated for each borehole standpipe for each monitoring event. The borehole hazardous gas flow rate is defined in BS8485 as the '*flow rate of a specific hazardous gas, either methane or carbon dioxide, from a borehole standpipe'*. The Q_{hg} is calculated from individual borehole measurements of total gas flow and the concentration of the specific hazardous gas. BS8485 states in Section 6.3.4 that the **maximum** gas concentration recorded during the monitoring event should be used, together with **steady-state** values of gas flows
- the reliability of the measured gas flow rates and concentrations are assessed taking into account borehole construction
- decisions are made about how to deal with any temporal or spatial shortages in the data
- judgements are made about what GSV to designate for use for design purposes taking all relevant information and the conceptual site model into account.

Once the Q_{hg} has been calculated for methane and carbon dioxide, individual borehole measurements are compared to the thresholds presented in Table 2 of BS8485 which inform the CS that directly relates to each individual measurement. Taking into account the site data (i.e. borehole gas concentration and flow rate to calculate the Q_{hg}) and all other influencing factors in accordance with the CSM, a decision can then be made regarding the GSV that is considered to be representative of the site or a zone within it.

Typical threshold concentrations of methane (1% v/v) and carbon dioxide (5% v/v), and flow rates (>70 l/h), are also considered when designating the GSV for the site or zone, which in turn dictates the hazard potential and CS. It is important to note that the site or zone characteristic GSV and maximum concentration or flow thresholds are guideline values and not absolute. The thresholds may be exceeded in certain circumstances, if the CSM indicates it is safe to do so.

5.5.3.2 Designation of a GSV for the site or zone

The results of the ground gas monitoring and testing undertaken, alongside site conditions at the time of monitoring, are given in **Appendix E.**

Consideration has been given to the presence of flooded or partially flooded response zones at the time of monitoring, with details of unflooded or partially flooded response zones detailed in **Appendix L**.

A summary of the monitoring well field data and the maximum recorded gas concentrations and initial and steady state flow rates per borehole (or minimum for oxygen) is presented in **Table 37**.

The range of atmospheric pressure over the monitoring rounds completed was 986-1032 mbar and included periods of falling atmospheric pressures and falling tides.

Table 37 Summary of ground gas monitoring results –

Exploratory position ID	Response zone top (m bgl)	Response zone base (m bgl)	Response zone geological unit	No. of monitoring rounds	Peak CH_4 max. (%/vol)	Steady-state CH_4 max. (%/vol)	Peak CO_2 max. (%/vol)	Steady-state CO_2 max. (%/vol)	Oxygen min. (%/vol)	Steady-state gas flow max. (l/hr)	Depth to water min. (m)	Depth to water max. (m)	Atm. pressure min. (mb)	Atm pressure max. (mb)
BH301	3	24.6	Mixed Superficial Deposits	5	0.2	0.2	0.1	0.1	10.4	0	1.33	1.4	986	1032
BH311	11	36	Mixed Superficial Deposits	5	9.7	9.7	0.3	0.1	15.5	0.4	7.08	DRY	986	1032
BH315	4	30	Mixed Superficial Deposits	5	0.9	0.9	0.1	0.1	17.3	0.3	0.07	1.32	986	1031
BH317	1	20	Mixed Superficial Deposits	5	94.1	94.1	2	2	0.1	0.7	2.15	2.58	986	1032
BH322	1	21	Mixed Superficial Deposits	5	4.5	4.5	0.1	0.1	15	0.7	3.12	3.38	986	1032
BH324	1	23	Mixed Superficial Deposits inc peat	5	0.4	0.2	0.1	0.1	19.5	0.5	0.94	1.43	986	1032
BH328	8	38	Mixed Superficial Deposits	5	27.2	27	10.8	10.8	0	0.2	10.3	10.6	967	1032

Exploratory position ID	Response zone top (m bgl)	Response zone base (m bgl)	Response zone geological unit	No. of monitoring rounds	Peak CH_4 max. (%/vol)	Steady-state CH_4 max. (%/vol)	Peak CO_2 max. (%/vol)	Steady-state CO_2 max. (%/vol)	Oxygen min. (%/vol)	Steady-state gas flow max. (l/hr)	Depth to water min. (m)	Depth to water max. (m)	Atm. pressure min. (mb)	Atm pressure max. (mb)
BH329	5	37.5	Mixed Superficial Deposits	5	8	3.3	0.2	0.2	16.7	0.7	10.03	11.18	986	1031
BH330	7	35	Mixed Superficial Deposits and Coal Measures	3	1.3	1.3	0.4	0.4	19.4	0.1	1.95	2.54	987	1032
BH331	7	25	Mixed Superficial Deposits and Weathered Coal measures	5	0.4	0.4	0.5	0.3	18.5	0.6	3.14	3.56	987	1032
• Monitoring standpipes response zones installed to allow an assessment of gas generation across various strata and to allow for groundwater sampling														

Table 38 Summary of ground gas monitoring results from the initial phase of Project Cronus

Exploratory position ID	Response zone top (m bgl)	Response zone base (m bgl)	Response zone geological unit	No. of monitoring rounds	Peak CH_4 max. (%/vol)	Steady-state CH_4 max. (%/vol)	Peak CO_2 max. (%/vol)	Steady-state CO_2 max. (%/vol)	Oxygen min. (%/vol)	Peak gas flow max. (l/hr)	Steady-state gas flow max. (l/hr)	Depth to water min. (m)	Depth to water max. (m)	Atm. pressure min. (mb)	Atm pressure max. (mb)
BH01 Shallow	4.00m	7.00m	Made Ground	3	91.5	91	6.6	6.6	0	3.5	2.3	1.775	1.95	1014	1019
BH01 Deep	8.00m	12.00m	Tidal Flat Deposits	3	91.5	91	6.6	6.6	0	1	0	1.78	1.6	1014	1019
BH02 Shallow	1.00m	5.00m	Blown Sand	3	16.2	0.6	0.8	0.1	9.2	2.8	1	0.53	0.53	1014	1014
BH02 Deep	7.00m	34.00m	Tidal Flat Deposits	3	16.2	0.6	0.8	0.2	11.2	0	0	0.67	1.5	1001	1014
BH03 Shallow	1.00m	4.00m	Made Ground	3	82.4	38.6	6.5	3.5	1.2	11.2	0.3	0.69	0.775	1001	1002
BH03 Deep	5.20m	30.00m	Tidal Flat Deposits	3	83.3	51	5.9	4.4	1.2	0.6	0.6	3.75	3.75	1013	1013
BH04 Shallow	1.00m	5.00m	Made Ground	3	0.1	0.1	0.3	0.3	20.7	0.1	0.1	2.08	2.4	1006	1007
BH04 Deep	14.00m	25.00m	Tidal Flat Deposits	3	0	0	0.1	0.1	20.3	0.1	0	2.445	2.445	1040	1040

Exploratory position ID	Response zone top (m bgl)	Response zone base (m bgl)	Response zone geological unit	No. of monitoring rounds	Peak CH_4 max. (%/vol)	Steady-state CH_4 max. (%/vol)	Peak CO_2 max. (%/vol)	Steady-state CO_2 max. (%/vol)	Oxygen min. (%/vol)	Peak gas flow max. (l/hr)	Steady-state gas flow max. (l/hr)	Depth to water min. (m)	Depth to water max. (m)	Atm. pressure min. (mb)	Atm pressure max. (mb)
BH05 Shallow	1.00m	5.00m	Made Ground	3	53.8	26	2.2	1	6.3	0.1	0.1	2.915	3.045	1000	1024
BH05 Deep	6.00	18.00	Tidal Flat Deposits	3	36.6	14.5	6.9	2.8	4.8	0	0	2.655	2.655	1040	1040
BH08	2.00m	19.00m	Tidal Flat Deposits	3	91.3	38.1	1	0.9	0.9	0.1	0.1	1.9	1.9	1014	1014
BH10	3.00m	23.50m	Tidal Flat Deposits	3	0	0	0.7	0.2	19.6	0.3	0.2	1.088	1.26	1012	1014
BH11	3.00	23.50m	Tidal Flat Deposits	3	0	0	0.7	0.2	20.8	0.2	0.2	0.28	0.67	1012	1014
BH12 Shallow	1.00m	3.00m	Made Ground	3	36.2	13	7.6	2.8	5.4	0	0	2.04	2.71	1006	1024
BH12 Deep	5.00m	26.50	Tidal Flat Deposits	3	0.2	0.2	0.2	0.2	17.9	0.1	0	2.16	2.16	1040	1040
BH13	2.00	16.50	Tidal Flat Deposits	3	0.2	0.2	0.4	0.4	19.5	5.6	1	1.07	1.235	1012	1014

Table 39 Summary of the continuous ground gas monitoring data from the supplementary works for Project Cronus

Exploratory position ID	Peak CH_4 min (%/vol)	Peak CH_4 max(%/vol)	Peak CO_2 min (%/vol)	CO_2 max. (%/vol)	Oxygen min. (%/vol)	Peak gas flow max. (l/hr)	Depth to water min. (m)	Depth to water max. (m)	Atm. pressure min. (mb)	Atm pressure max. (mb)
BH201	0.00	3.33	0.00	0.05	18.46	0.09	1.95	2.19	998	1030
BH202	0.01	1.64	0	0	12.9	0.04	2.97	3.27	999	1031
BH203	0.00	0.19	0.00	0.15	18.79	2.11	0.85	1.25	999	1031
BH204	0.04	30.83	0.02	1.55	10.92	0.63	3.82	4.75	999	1031
BH205	0.02	25.72	0	0	6.92	0.1	2.29	2.44	999	1031
BH207	0.00	4.95	0.00	0.04	1.2	0.14	3.2	3.74	999	1031
BH208	0.00	41.01	0.12	3.82	11.36	0.12	2.43	2.75	999	1031
BH209	0.00	0.21	0.00	0.08	19.83	0.02	2.00	2.30	999	1031

5.5.3.3 Summary of borehole hazardous gas flow rates

Borehole hazardous gas flow rates (Q_{hg}) have been calculated for each borehole standpipe, where conditions indicate the response zone to be either unflooded or partially flooded, for each monitoring round and are presented, alongside two 'worst case' checks in **Appendix L** comprising a probable 'worst case' and potential 'worst case' from the available monitoring data. Within this data gas concentrations exceeding the thresholds presented in Table 2 of BS8485 are identified, alongside the CS that could be associated with each individual borehole monitoring event.

5.5.3.4 Worst case check

In accordance with BS8485, a 'worst case' Q_{hg} has been calculated per borehole by multiplying the maximum recorded flow from any monitoring round for that borehole by the maximum recorded methane or carbon dioxide concentration in that borehole. A further worst-case Q_{hg} check across all data collected is presented in **Appendix L** for the entire site (or zone), which has been calculated by multiplying the maximum recorded flow by the maximum recorded methane or carbon dioxide concentration.

The gas monitoring carried out to date has recorded elevated CH_4 within BHs 311 and 317 with CO_2 and flow rates generally relatively low, noting that the response zone for BH317 was flooded. The origin of the elevated CH_4 is considered likely to be pockets of peat encountered within the Tidal Flat Deposits which have been oxidised as a consequence of the drilling and subsequent installation of monitoring wells. A majority of the response zones in the boreholes appear to have been flooded as a consequence of shallow groundwater and hence the results should be treated with caution and potentially discounted.

The elevated CH_4 along with the absence of significant CO_2 and flow is typical of peat, with higher initial concentrations of CH_4 normally decreasing over an extended monitoring period.

Based upon the type of Made Ground encountered it is not considered a likely source of ground gases due to the low organic content present and absence of any significant volume of degradable or putrescible material. It is noted that the elevated ground gases observed in BH01 and BH03 were from the shallow part (screening in Made Ground) of dual monitoring well installations. It is anticipated the elevated methane concentrations identified in these locations are likely to be associated with the peat deposits in the deep part of the dual installation (seals between dual installations are not always fully effective).

The data collected from the unflooded monitoring wells appears to have similar gas concentrations, most notably CH_4 and similar flow rates to those from the monitored wells installed as part of Project Cronus, during both the periodic and continuous monitoring.

5.5.3.5 Data limitations

The site investigation and subsequent gas monitoring programme was designed to provide evidence in support of a ground gas assessment. However, due to the shallow nature of the groundwater beneath the site many of the monitoring well response zones were noted to be flooded, 'true' readings may not have been recorded as part of this monitoring programme. Based upon the unflooded response zones locations a characteristic situation 1 (CS1) is indicated, except when considering the worst-case Qhg check across all data, where CS2 is indicated for both methane and carbon dioxide. There remains uncertainty around the characterisation of the ground gas regime at the site given the elevated groundwater table. Given this, it is recommended that ground gas protection measures appropriate for CS2 are implemented in the proposed buildings.

Alternatively, once enabling works are complete and the final development platform is achieved further ground gas monitoring could be undertaken to refine the ground gas assessment with a view to potentially demonstrating that ground gas protection measures are not required via the construction of additional shallow unflooded wells. The proposed foundation type(s) once finalised shall also need to be taken to account in the ground gas protection measures design (or further assessment following enabling works), to ensure no preferential ground gas migration pathways are introduced as a result of the foundations proposed.

5.6 Methodology and assessment of controlled waters-related linkages

5.6.1 R4. Migration of dissolved phase contaminants to Bristol Channel

As the primary controlled waters receptors are surface waters in the Bristol Channel, the analytical results for groundwater samples have been assessed against Environmental Quality Standards (EQS) for coastal waters for conservatism.

Screening of the results of laboratory analysis undertaken on groundwater samples collected during the current investigation indicated measured concentrations of arsenic, copper, mercury and zinc in excess of the EQS as shown in **Table 40** and presented in the screening sheet in **Appendix K**.

Table 40 Summary of groundwater exceedances

Determinand	Threshold value (µg/l) (EQS)	Location and exceedance concentration (µg/l)
Arsenic	25	BH301 (27) and BH324 (37)
Copper	1.0	BH324 (1.2)
Mercury	0.07	BH324 (0.09)
Zinc	6.8	BH331 (7.2) and BH317 (7.0)

Groundwater results from BH4 from the previous Cronus investigation (RSK, March 2022) were found to have exceeded the threshold value presented in **Appendix K** and summarised in **Table 41** and **Table 42**. BH4 was located in the area of the former Grange Coke Ovens. A dual installation was put within BH4 to screen the made ground and natural strata in order to sample groundwater from both underlying strata.

Table 41 Summary of groundwater exceedances for BH4 (shallow standpipe)

Determinand	Threshold value (µg/l) (EQS)	Exceedance concentration (µg/l)
Acenaphthylene	5.8	18.8
Anthracene	0.1	10.8
Benzo(a)pyrene	0.00017	0.02
Fluoranthene	0.0063	3.83
Naphthalene	2	4030

Determinand	Threshold value (µg/l) (EQS)	Exceedance concentration (µg/l)
Benzene	8	543
Toluene	4	190
Phenol	7.7	12
Aromatic >C5-C7	8	407
Aromatic >C7-C8	74	187

Table 41 indicates exceedances of the threshold value are present in the groundwater samples from the Made Ground in BH4.

Exceedances were also present within the deeper groundwater of the natural strata in BH4 as shown in **Table 42**.

Table 42 Summary of groundwater exceedances for BH4 (deep standpipe)

Determinand	GAC (µg/l) (DWS)	Exceedances (monitoring well and concentration µg/l)
Anthracene	5.8	0.42
Naphthalene	2	21.76
Benzene	8	228
Phenol	7.7	39
Aromatic >C5-C7	8	183

Table 43 indicates exceedances of the threshold value are present in the deeper groundwater samples in BH4.

Further groundwater sampling and testing was undertaken (RSK, October 2022) as part of the Cronus investigation following the identification of impacted groundwater from the initial phase of works (BH4) presented within RSK's March 2022 report.

Several exceedances of the threshold value were identified in intrusive locations undertaken around the former Grange Coke Ovens, most significantly in BH202. It is noted that during the drilling of BH202, strong hydrocarbon odours and elevated PID readings were recorded, which along with the elevated concentrations (in excess of pure-phase solubility) in groundwater indicated that non-aqueous phase liquid (NAPL) may be locally present in this area of the site. From groundwater gauging completed at the site it is anticipated that the screened section of the deep groundwater well at BH202 is below the groundwater surface and as such, if present, light non-aqueous phase liquid (LNAPL) would not be able to migrate into the monitoring well, however, the shallow part of the dual installation (screened 1.00 m to 5.00 m bgl) would allow the ingress of LNAPL if present.

If dense non-aqueous phase liquid (DNAPL) is locally present, associated with the possible coal tar observations in the vicinity of BH202 and in the general area of the coking works, the cohesive nature of the underlying geology is anticipated to inhibit its vertical migration. Possible evidence of this was observed in BH202 where PID values and visual/olfactory observations of contamination markedly decrease below 15.20 m bgl.

Table 43 Summary of groundwater exceedances identified during the supplementary Project Cronus investigation

Determinand	GAC (µg/l) (DWS)	Maximum recorded value concentration µg/l	Number of exceedances	Location of maximum exceedances (monitoring well and concentration µg/l)
Arsenic (dissolved)	25	222	13	BH2: 222 (21/01/2022)
Lead	1.3	6	7	BH207: 2 (30/06/2022)
Mercury	0.07	0.6	4	BH206: 0.07 (30/06/2022)
Nickel (dissolved)	8.6	30	4	BH202: 30 (06/15/2022) BH202: 30 (07/21/2022)
Zinc (dissolved)	6.8	17	12	BH8: 17 (01/24/2022) BH204: 17 (07/21/2022)
1,2-Dichloroethane	10	13	1	BH202: 13 (06/15/2022)
Acenaphthylene	5.8	121	8	BH202: 121 (07/21/2022)
Anthracene	0.1	13.9	19	BH204: 13.9 (07/21/2022)
Benzo(a)pyrene	0.00017*	0.44	10	BH204: 0.44 (07/21/2022)
Fluoranthene	0.0063*	14.7	32	BH204: 14.7 (07/21/2022)
Naphthalene	2	4380	17	BH4: 4380 (15/02/2022)
Aro >C5-C7	8	4701	12	BH202: 4701 (06/15/2022)
Aro >C7-C8	74	304	4	BH202: 304 (07/21/2022)
BTEX - Benzene	8	4701	12	BH202: 4701 (06/15/2022)
BTEX - Toluene	74	304	4	BH202: 304 (07/21/2022)
Phenols - Total by HPLC	7.7	9150	9	BH202: 9150 (06/15/2022)
*GAC below laboratory detection limits				

The full results are included within the **Appendix K**.

From the findings of the groundwater analysis results during this and the previous investigations, along with visual and olfactory evidence of contamination observed during intrusive works, there is evidence that there is impact in the soils and groundwater, particularly in the vicinity of the former coke ovens. As already mentioned, the visual, olfactory and groundwater data for BH202 are indicative of the presence of NAPL locally in this area of the site and residual NAPL may also be locally present in wider vicinity of the former coke ovens / DLS Regeneration Yard.

In order to further assess the concentration of contaminants of concern in excess of the EQS further, qualitative assessment has been completed in accordance with a 'lines-of-evidence' approach in the context of the proposed development as follows:

- The site is located in an area with a long history of industrial activity and as such the quality of groundwater in the region is known to be of poor quality. As such, groundwater in the region is considered to be of limited resource value. In accordance with this, the groundwater

underlying the site is considered a pathway rather than a receptor, with the nearest downgradient controlled waters receptor considered to be the Bristol Channel circa 600 m west of the site. Given; the distance to the Bristol Channel from the site, the cohesive nature of the underlying Tidal Flat Deposits and cohesive elements of the Coal Measures, there is considered a low risk that the COPC identified would reach this feature at sufficient concentrations to pose an unacceptable risk.

- The metals exceedances observed are typically within the same, or up to one, order of magnitude greater than the EQSs.
- The PAH compounds observed in excess of the EQSs are typically associated with relatively low mobilities in groundwater, with naphthalene considered to be the most mobile. Naphthalene concentrations were highest in BH202 and BH204 in the vicinity of the former coke ovens, and down/cross gradient at BH3, naphthalene concentrations although recorded in excess of the EQS, are within the same order of magnitude of this threshold value.
- Similarly to PAH, the elevated hydrocarbon and phenol results are predominantly associated with BH202 in the former coke ovens area. The bulk of the hydrocarbon source in this area comprises aromatic fractions in the range >C10-C16, which in accordance with CI:AIRE 2017 guidance *(Petroleum Hydrocarbons in Groundwater: Guidance on assessing petroleum hydrocarbons using existing methodologies)*, are associated with a moderate mobility in groundwater. It is also noted that the hydrocarbon concentrations measured in groundwater from BH202 in some cases are in excess of pure phase solubility limits, this suggest the NAPL may be entrained in the groundwater sample exaggerating the dissolved phase concentrations reported.
- As part of the redevelopment works the majority of the site is proposed to be covered by hard standing, this shall reduce infiltration to ground, and hence reducing leaching of remaining contaminants from soils.
- During enabling works any gross visual signs of contamination (such as free product in unsaturated soils) should be removed and treated prior to being re-used or disposed of off-site at a suitably licenced landfill/treatment facility. By doing this, betterment in groundwater quality over the medium to long term would be expected by reducing contaminant load.

Based on the above lines of evidence, although a potentially complete pollutant linkage has been identified in relation to contaminants of concern in groundwater - migrating laterally to the Bristol Channel, the risk that concentrations shall reach this feature at sufficient concentrations to pose an unacceptable risk is considered low.

Careful consideration will need to be given to any dewatering and disposal of contaminated groundwater as part of the construction of the proposed EAF facility from the area of the former coke ovens.

5.7 Uncertainties and implications in refined CSM and GQRA

In accordance with good practice, data gaps and uncertainties have been identified at this stage and are summarised in **Table 44** along with likely implications. The findings of this investigation are in line with our initial CSM and the findings of the previous site investigation works and as such no refinement of the CSM has been required.

Table 44 Data gaps and uncertainties

Data gap/ uncertainty	Details	Implications
Limited access to some of the site	No access to former coal yard	Ground conditions and any contamination unknown. Extent of potential groundwater impact also unknown.
Due to the shallow nature of the groundwater beneath the site the response zones in a number of the ground gas monitoring wells were flooded	Based upon the unflooded response zone a characteristic situation 1 (CS1) is indicated, except when considering the worst-case Qhg check across all data, where CS2 is indicated for both methane and carbon dioxide. There remains uncertainty around the characterisation of the ground gas regime	It has been recommended that ground gas protection measures appropriate for CS2 are implemented in the proposed buildings. Alternatively, once enabling works are complete and the final development platform is achieved further ground gas monitoring could be undertaken to refine the ground gas assessment with a view to potentially demonstrating that ground gas protection measures are not required via the construction of additional shallow unflooded wells.

6 CONCLUSIONS AND RECOMMENDATIONS

6.1 Geo-environmental assessment

Based on the results of the recent site investigation, consideration of data from previous investigations at the site and GQRA, contaminant linkages have been identified to be potentially complete and require further action with respect to human health. This is as a result of asbestos being present in a number of tested samples as well as the presence of aromatic hydrocarbon fractions >C10-C16, benzene, toluene, a number of PAHs and lead. Based on this, a potential linkage is confirmed which could present an unacceptable risk to future end workers and construction workers if not mitigated in relation to inhalation of asbestos fibres and inhalation of contaminated dust.

The hydrocarbon contamination identified in the area of the former coke ovens during this and the Project Cronus investigations is not considered to present an unacceptable risk to future end workers via vapour inhalation since the proposed buildings are to be constructed some distance away from this area. Should the proposed development plan alter, this report shall need to be reviewed by RSK and updated if deemed necessary.

The Made Ground is not considered to be a viable source of ground gases due to the absence of any significant degradable or putrescible material as shown by the intrusive investigation. The elevated methane identified on site is likely due to the peat within the Tidal Flat Deposits although the monitoring wells were shown to be flooded in a number of instances. Ground gas monitoring data collected to date from unflooded locations suggests a CS1 characterisation situation except when considering the worst-case Qhg check, across all data, where CS2 is indicated for both methane and carbon dioxide. However, due to the shallow nature of the groundwater beneath the site the response zones in a number of the ground gas monitoring wells were flooded, as such ground gas protection measures appropriate for CS2 are implemented in the proposed buildings.

A potentially complete pollutant linkage was identified in the initial conceptual model in relation to contaminants of concern in groundwater - migrating laterally to the Bristol Channel.

Whilst evidence of impacted groundwater and visual and olfactory signs of contamination indicative of the potential presence of NAPL have been identified in the area of the former coke ovens, based on a ‘lines-of-evidence’ approach there is considered a low risk that the contaminants identified could reach the Bristol Channel at sufficient concentrations to pose an unacceptable risk. This conclusion has largely been reached given the distance from this area of site to the Bristol Channel (c. 600m) allowing attenuation through dilution, degradation and retardation of contaminants prior to reaching this receptor. Further to this, the proposed development requires increasing the proportion of hardstanding across the site which will reduce infiltration and hence reduce the leaching of remaining contaminants in soils to the underlying groundwater. Similarly, removal of any unexpected gross visual signs of contamination (such as free product in unsaturated soils) identified during construction would be expected to further reduce contaminant load. The actions listed would be expected to achieve localised betterment in groundwater quality over the medium to long term.

6.2 Recommendations- ground contamination (human health)

Based upon the findings of this and previous investigations the elevated concentrations of metals, PAH, hydrocarbon fractions and asbestos pose a potential risk to human health via fibre/dust

inhalation, as such mitigation measures are required. A majority of these GAC exceedances are located away from the principal development area of the EAF and are recorded in the near-surface soils in the proposed yard areas. Construction in these yard areas is understood to comprise a cover of either thick concrete and/or granular imported material. As such these proposals will mitigate risk to the future users of the site in these areas. Given the discrete nature of asbestos there is the potential for it to be present within the Made Ground. It is therefore recommended that to mitigate this residual risk, areas of soft landscaping underlain by Made Ground be subject to an appropriate clean cover system. This could be further limited, through liaison with the regulatory body, to soft landscaped areas within close proximity to structures/buildings requiring access by future workers.

It is recommended that ground gas protection measures appropriate for CS2 are implemented in the proposed buildings. However, once enabling works are complete and the final development platform is achieved further ground gas monitoring could be undertaken to refine the ground gas assessment with a view to potentially demonstrating that ground gas protection measures are not required, via the construction of additional shallow wells placed in unsaturated soils.

Consideration will need to be given to any potential reuse of soils at the site during proposed redevelopment works, for instance any materials observed to contain gross contamination such as heavy staining, free phase product or visible ACM shall not be suitable for re-use (unless treated and rendered suitable for re-use under a Remedial Strategy) or will otherwise require off-site disposal. Should levels in the vicinity of the proposed buildings be required to be raised any materials proposed to be used in this area should be tested to confirm geotechnical and chemical suitability for use prior to placement.

6.3 Recommendations - groundwater contamination

The area of the recorded potential NAPL (BH202) is on the western extent of the EAF planning boundary and hence there are no directly hydraulically down gradient monitoring points within the planning boundary. However, it is noted that BH3 and BH201 are to the northwest and southwest respectively and neither recorded potential NAPL or elevated concentrations to the extent observed in the area of BH202. There were exceedances of the EQS in BH3 albeit they were of the same order of magnitude as the assessment value and considerably lower than within BH202.

With respect to the wider environmental permit area, it is acknowledged that there are third party historical boreholes located around the Morfa Coke Ovens c.400m to the west of the EAF boundary and BH202. It is not considered appropriate to utilise these based on their distance from BH202 and their proximity to a potential source of similar contaminants (ie the Morfa Coke Ovens).

Further quantitative risk assessment in the form of a DQRA is not proposed at this time due to the distance of the area of BH202 from the sensitive receptor, the sensitivity of the receptor, the likelihood of the presence of numerous potential sources in the vicinity and between BH202 and the receptor, and the context of the wider site.

The sensitive controlled waters receptor is considered to be the Bristol Channel some 600m to the west and hence it is reasonable to expect significant retardation and attenuation of contaminants of this nature (ie low mobility) over such a large distance. Added to this, the sensitivity of the Bristol Channel is considered to be relatively low given the commercial and industrial uses past which it flows, significant water volumes within it and large tidal range.

As discussed above, it is known that the Morfa Coke Ovens are located between the area of BH202 and the sensitive receptor (Bristol Channel). Furthermore, the Phase 1 report identified numerous current and historical potentially contaminative areas, processes and activities (in addition to widespread thick heterogenous made ground) in close proximity and within the wider works.

It is considered that any future permit surrender would necessitate remedial actions to address any material change in baseline conditions at the time of the permit issue. It is anticipated that a piling risk assessment will be required for the proposed development.

6.4 Recommendations - general

Should any unexpected contaminated soils, or contaminated groundwater be encountered (not previously identified) during construction works work in that area should stop and advice sought from an appropriately qualified Environmental Consultant.

Contaminated soil disposed of off-site will be taken to a soil treatment facility/ landfill appropriately permitted to take that material.

A Soil Management Plan (SMP) would be developed prior to construction (to be secured by planning condition), which will include methods to protect soil resources. These should conform to the Construction Code of Practice for the Sustainable Use of Soils on Construction Sites (Defra, 2009).

Careful consideration will need to be given to any dewatering and disposal of contaminated groundwater as part of the construction of the proposed development, particularly from the area of the former coke ovens, as well as careful consideration of soils proposed to be reused.

Should there be any changes to the development layout as they are understood at the time of writing this report then these recommendations would need to be reviewed.

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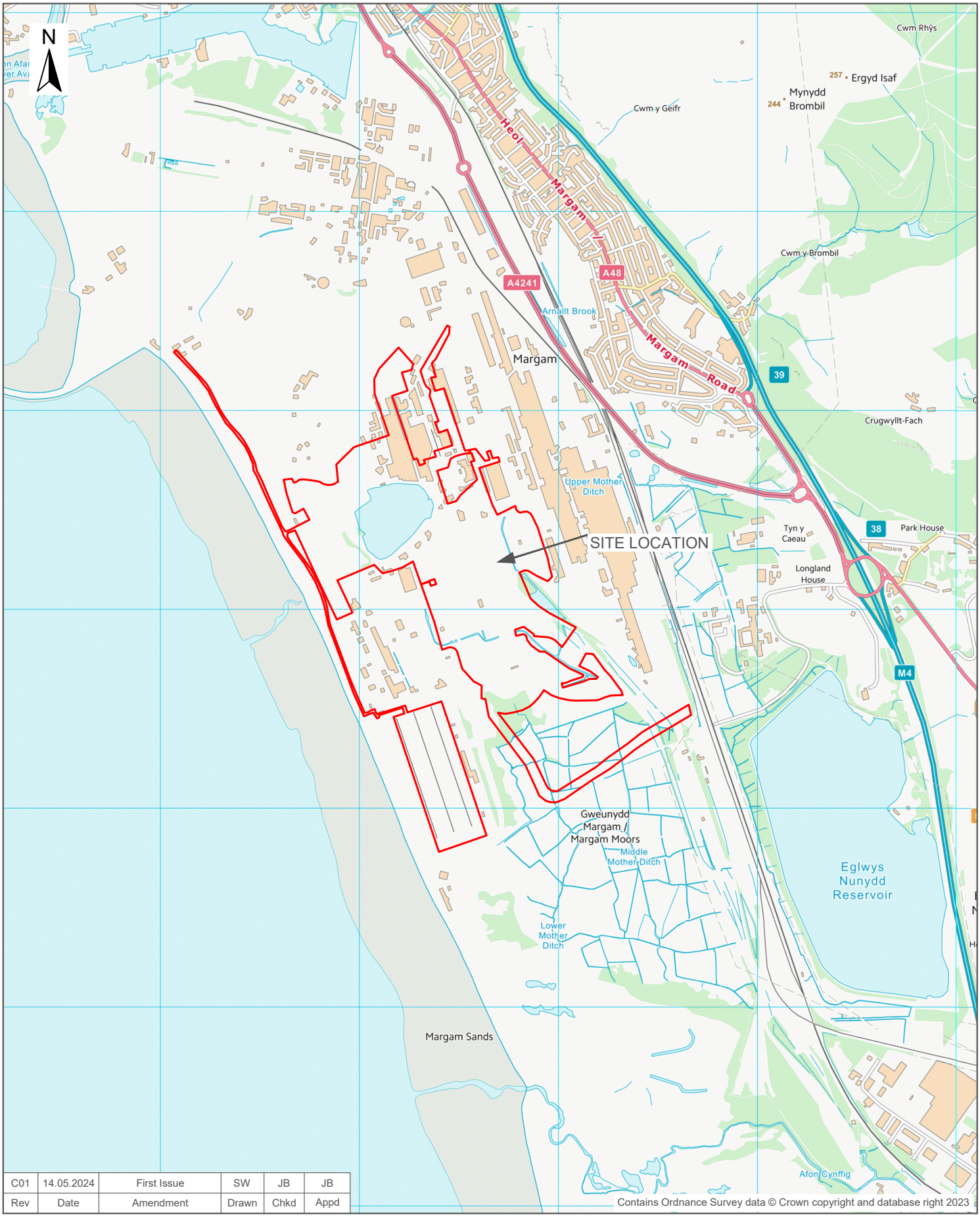
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FIGURES

Figure 1 SITE LOCATION PLAN



Rev	Date	Amendment	Drawn	Chkd	Appd
C01	14.05.2024	First Issue	SW	JB	JB

RSK GEOSCIENCES
The Old School
Stillhouse Lane
Bristol
BS3 4EB
Tel: +44(0)1414 180471
Email: info@rsk.co.uk
Web: www.rsk.co.uk

Client: Tata Steel

Project Name: EAF Project

Description: Site Location Plan

Dimension	Size	Scale	Geolocation	Project ID	Drawing no.	Rev	File name
m	A4	1:25,000	278154,186921	315531	11101	C01	315531-BL-111-XX-D-G-11101-C01

Figure 2 SITE LAYOUT PLAN



LEGEND

Site boundary

Notes:

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Rev	Date	Amendment	Drawn	Chkd	Appd
C01	14.05.2024	First Issue	SW	JB	JB

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The Old School
Stillhouse Lane
Bristol
BS3 4EB

Tel: +44(0)1414 180471
Email: info@rsk.co.uk
Web: www.rsk.co.uk

Client: Tata Steel

Project Name: EAF Project

Description: Site Layout Plan

Project ID	Drawing no.	Revision
315531	11201	C01

File name: 315531-BL-112-XX-D-G-11201-C01

Dimensions	Scale	Size
m	1:5000	A1

0 100 200 300 400 500m

Figure 3 EXPLORATORY HOLE LOCATION (BOREHOLES ONLY) PLAN WITH DEVELOPMENT AREAS

DO NOT SCALE FROM THIS DRAWING

N

LEGEND

- Site boundary
- Area 1
- Area 2

Notes:

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C01	17.06.24	First Issue	LS	JB	JB

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The Old School
Stillhouse Lane
Bristol
BS3 4EB

Tel: +44(0)1414 180471
Email: info@rsk.co.uk
Web: www.rsk.co.uk

Client: Tata Steel

Project Name: EAF Project

Description: Plan Showing Areas 1 and 2

Project ID	Drawing no.	Revision
315531	11202	C01

File name: 315531-BL-112-XX-D-G-11202-C01

Dimensions	Scale	Size
m	1:5000	A1

0 100 200 300 400 500m

Figure 4 EXPLORATORY HOLE LOCATION PLANS- BOREHOLES



LEGEND

- Site boundary
- Borehole location

Notes:

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C01	21.08.24	First Issue	LS	JB	JB

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The Old School
Stillhouse Lane
Bristol
BS3 4EB
Tel: +44(0)1414 180471
Email: info@rsk.co.uk
Web: www.rsk.co.uk

Client: Tata Steel

Project Name: EAF Project

Description: Exploratory Hole Location Plan - West Boreholes

Project ID	Drawing no.	Revision
315531	22213	C01

File name: 315531-BL-222-XX-D-G-22213-C01

Dimensions	Scale	Size
m	1:1250	A1

0 20 50 75 100m

DO NOT SCALE FROM THIS DRAWING

N

BH331

BH330

LEGEND

- Site boundary
- Borehole location

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C01	21.08.24	First Issue	LS	JB	JB

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The Old School
Stillhouse Lane
Bristol
BS3 4EB

Tel: +44(0)1414 180471
Email: info@rsk.co.uk
Web: www.rsk.co.uk

Client: Tata Steel

Project Name: EAF Project

Description: Exploratory Hole Location Plan - North Boreholes

Project ID	Drawing no.	Revision
315531	22210	C01

File name: 315531-BL-222-XX-D-G-22210-C01

Dimensions	Scale	Size
m	1:1250	A1

0 20 50 75 100m



LEGEND

- Site boundary
- Borehole location

Notes:

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C01	21.08.24	First Issue	LS	JB	JB

RSK GEOSCIENCES
The Old School
Stillhouse Lane
Bristol
BS3 4EB
Tel: +44(0)1414 180471
Email: info@rsk.co.uk
Web: www.rsk.co.uk

Client: Tata Steel

Project Name: EAF Project

Description: Exploratory Hole Location Plan - East Boreholes

Project ID	Drawing no.	Revision
315531	22211	C01

File name: 315531-BL-222-XX-D-G-22211-C01

Dimensions	Scale	Size
m	1:1250	A1

0 20 50 75 100m



DO NOT SCALE FROM THIS DRAWING

LEGEND

- Site boundary
- Borehole location

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C01	21.08.24	First Issue	LS	JB	JB

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The Old School
Stillhouse Lane
Bristol
BS3 4EB

Tel: +44(0)1414 180471
Email: info@rsk.co.uk
Web: www.rsk.co.uk

Client: Tata Steel

Project Name: EAF Project

Description: Exploratory Hole Location Plan - South Boreholes

Project ID	Drawing no.	Revision
315531	22212	C01

File name: 315531-BL-222-XX-D-G-22212-C01

Dimensions	Scale	Size
m	1:1250	A1

0 20 50 75 100m

Figure 5 EXPLORATORY LOCATION PLANS- TRIAL PITS



LEGEND

- Site boundary
- Trial pit location

Notes:

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C01	21.08.24	First Issue	LS	JB	JB

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The Old School
Stillhouse Lane
Bristol
BS3 4EB
Tel: +44(0)1414 180471
Email: info@rsk.co.uk
Web: www.rsk.co.uk

Client: Tata Steel

Project Name: EAF Project

Description: Exploratory Hole Location Plan - North Trial Pits

Project ID	Drawing no.	Revision
315531	22206	C01

File name: 315531-BL-222-XX-D-G-22206-C01

Dimensions	Scale	Size
m	1:1250	A1

0 20 50 75 100m

DO NOT SCALE FROM THIS DRAWING

N

TP357
TP350
TP356
TP355
TP340
TP359
TP379
TP378
TP339
TP377
TP315
TP380
TP324
TP313
TP307
TP308
TP323
TP366
TP337
TP309
TP310
TP306
TP365
TP311
TP312
TP368
TP318
TP319
TP367
TP316

LEGEND

- Site boundary
- Trial pit location

Notes:

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Rev	Date	Amendment	Drawn	Chkd	Appd
C01	21.08.24	First Issue	LS	JB	JB

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The Old School
Stillhouse Lane
Bristol
BS3 4EB

Tel: +44(0)1414 180471
Email: info@rsk.co.uk
Web: www.rsk.co.uk

Client: Tata Steel

Project Name: EAF Project

Description: Exploratory Hole Location Plan - East Trial Pits

Project ID	Drawing no.	Revision
315531	22207	C01

File name: 315531-BL-222-XX-D-G-22207-C01

Dimensions	Scale	Size
m	1:1250	A1

0 20 50 75 100m

DO NOT SCALE FROM THIS DRAWING

N

TP367
TP316
TP319
TP394
TP353
TP317
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TP314
TP369
TP352
TP370
TP351
TP363
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TP3002
TP397
TP334
TP399
TP362
TP398
TP331
TP396
TP361
TP395
TP371
TP360
TP321
TP372
TP376
TP351
TP331
TP341
TP320
TP375
TP374
TP373

LEGEND

Site boundary

Trial pit location

Notes:

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Rev	Date	Amendment	Drawn	Chkd	Appd
C01	21.08.24	First Issue	LS	JB	JB

RSK GEOSCIENCES
The Old School
Stillhouse Lane
Bristol
BS3 4EB
Tel: +44(0)1414 180471
Email: info@rsk.co.uk
Web: www.rsk.co.uk

Client: Tata Steel

Project Name: EAF Project

Description: Exploratory Hole Location Plan - South Trial Pits

Project ID	Drawing no.	Revision
315531	22208	C01

File name: 315531-BL-222-XX-D-G-22208-C01

Dimensions	Scale	Size
m	1:1250	A1

0 20 50 75 100m

DO NOT SCALE FROM THIS DRAWING

N

TP305
TP386
TP343
TP305
TP385
TP343
TP304
TP304
TP393
TP325
TP384
TP382
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TP379
TP387
TP391
TP345
TP378
TP303
TP347
TP346
TP302
TP377
TP301
TP313
TP337

LEGEND

Site boundary

Trial pit location

Notes:

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Rev	Date	Amendment	Drawn	Chkd	Appd
C01	21.08.24	First Issue	LS	JB	JB

RSK GEOSCIENCES
The Old School
Stillhouse Lane
Bristol
BS3 4EB
Tel: +44(0)1414 180471
Email: info@rsk.co.uk
Web: www.rsk.co.uk

Client: Tata Steel

Project Name: EAF Project

Description: Exploratory Hole Location Plan - West Trial Pits

Project ID	Drawing no.	Revision
315531	22209	C01

File name: 315531-BL-222-XX-D-G-22209-C01

Dimensions	Scale	Size
m	1:1250	A1

0 20 50 75 100m

Figure 6 EXPLORATORY LOCATION PLAN- PROJECT CRONUS



LEGEND

- Trial Pit Location
- Borehole Location

Rev.	Date	Amendment	Drawn	Chkd.	Appd.
01	03.03.2022	Positions updated	MW	JB	-
00	26.01.2022	-	MW	JB	-

The Old School,
Stillhouse Lane,
Bedminster,
Bristol,
BS3 4EB

Tel: +44 (0)117 947 1006
Email: info@rsk.co.uk
Web: www.rsk.co.uk

Client: Tata Steel

Project Title: Project Cronus

Drawing Title: Exploratory Hole Location Plan

Drawn	Date	Checked	Date	Approved	Date
MW	26.01.22	JB	26.01.22	-	-

Dimensions	Scale	Original Size
m	1:6000	A3

Project Number	Drawing Number	Rev
315075	Figure 3	01

Drawing File: 315075 - Fig 3 - rev 01 - EHLP

0 100 200 300m

Figure 7 EXPLORATORY HOLE LOCATION PLAN- EXCEEDANCES IN HUMAN HEALTH GACS (SOILS)

DO NOT SCALE FROM THIS DRAWING

N

BH304
TP04
TP211
TP397
TP53
TP208
TP06
TP210
BH202
TP19
BH319
TP224
TP375
TP55
TP28
TP30

LEGEND

- Site boundary
- Trial pit location
- Borehole location
- Exceedance - Asbestos
- Exceedance - TPH
- Exceedance - PAH
- Exceedance - Metals

Notes:

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Rev	Date	Amendment	Drawn	Chkd	Appd
C02	03.02.25	Second Issue	LS	JB	JB
C01	21.01.25	First Issue	LS	JB	JB

RSK GEOSCIENCES
The Old School
Stillhouse Lane
Bristol
BS3 4EB
Tel: +44(0)1414 180471
Email: info@rsk.co.uk
Web: www.rsk.co.uk

Client: Tata Steel

Project Name: EAF Project

Description: Exploratory Hole location Plan - Exceedances in Human Health GACs (Soils)

Project ID	Drawing no.	Revision
315531	22215	C02

File name: 315531-BL-222-XX-D-G-22215-C02

Dimensions	Scale	Size
m	1:5000	A1

0 100 200 300 400 500m

APPENDICES

APPENDIX A
SERVICE CONSTRAINTS

1. Service Constraints for all Reports

1.1. This Report (the “Report”) and any study, inspection, investigation, sampling, testing and or interpretation carried out in connection with the Report (together the "Services") were compiled and carried out by RSK Environment Limited (RSK) trading as Carbon Zero Consulting, Leap Environmental or RSK Geosciences, for the Client named in the first paragraph of the Report (the "Client") in accordance with the terms of an RSK Fee Proposal including RSK Environment Standard Terms and Conditions (the “Appointment”) between RSK and the Client, unless otherwise stated in the first paragraph of the Report. The Services were performed by RSK with the reasonable skill and care ordinarily exercised by a geo-environmental consultant at the time the Services were performed. Nothing in this Report shall be construed as imposing any fitness for purpose obligation. Further, and in particular, the Services were performed by RSK taking into account the limits of the scope of works required by the Client, the time scale involved and the resources, including financial and manpower resources, agreed between RSK and the Client.

1.2 Other than that, expressly contained in paragraph 1 above, RSK provides no other representation or warranty whether express or implied, in relation to the Services. RSK shall not be liable in respect of any action or proceedings arising out of or in connection with this Report whether in contract, in tort, for breach of statutory duty or otherwise after the expiry of six (6) years from either (i) the date of the Report or (ii) such earlier date as prescribed by law, unless varied in the terms of the Appointment.

1.3 Unless otherwise agreed in writing, the Services were performed by RSK exclusively for the purposes of the Client. RSK is not aware of any interest of or reliance by any party other than the Client in or on the Services. Unless expressly provided in writing, RSK does not authorise, consent, or condone any party, other than the Client relying upon the Services. Should this Report or any part of this Report, or details of the Services or any part of the Services, be made known to any such party, and such party relies thereon, that party does so wholly at its own and sole risk, and RSK disclaims any liability to such parties. Any such party would be well advised to seek independent advice from a competent geo-environmental consultant and/or lawyer.

1.4 The Client shall not, without the prior written consent of RSK, assign, transfer, charge, mortgage, subcontract, or deal in any other manner with all or any of the benefits provided in this Report. Unless specified in the Appointment, RSK shall not be obliged to assign the benefit of the Report whether by collateral warranty, third party rights pursuant to the Contracts (Rights of Third Parties) Act 1999, letter of reliance or otherwise. If RSK agrees to any assignment of the benefit of this Report, in whatever form, benefits to third parties through collateral warranties, third party rights or letters of reliance shall not be provided unless a fee for each right, warranty or letter is agreed. The form of wording used in the warranty or letter shall be provided by RSK for agreement by the Client. Any reasonable changes to the form of wording will be implemented by mutual agreement, however the terms in the warranty or letter cannot offer the third party any greater benefit than the Appointment offered to the Client.

1.5 It is the understanding of RSK that this Report is to be used for the purpose described in the introduction to the Report. That purpose was a significant factor in determining the scope and level of the Services. Should the purpose for which the Report is used, or the proposed use of the site change, this Report may no longer be valid and any further use of or reliance upon the Report in those circumstances by the Client without the review and advice of RSK shall be at the Client's sole and own risk. RSK shall not be liable for any use of this Report for any purpose other than that for which it was provided.

1.6 The passage of time may result in changes in site conditions, regulatory or other legal provisions, technology or economic conditions which could render the Report inaccurate or unreliable. The information and conclusions contained in this Report should not be relied upon in the future without the written advice of RSK. In the absence of such written advice of RSK, reliance on the Report in the future shall be at the Client's own and sole risk.

1.7 The observations and conclusions described in this Report are based solely upon the Services which were provided pursuant to the agreement between the Client and RSK. RSK has not performed any observations, investigations, studies or testing not specifically set out, or required by the Appointment between the Client and RSK. RSK is not liable for the existence of any condition, the discovery of which would require performance of services not otherwise contained in the Services. For the avoidance of doubt, unless otherwise expressly referred to in the introduction to this Report, RSK did not seek to evaluate the presence on or off site of asbestos, invasive plants, electromagnetic fields, lead paint, heavy metals, radon gas, fuel storage, persistent bio-accumulative or toxic chemicals (including PFAS and related compounds) or other radioactive or hazardous materials, unless specifically identified in the Services.

1.8 The Services are based upon RSK's observations of existing physical conditions at the Site gained from a visual inspection of the site together with RSK's interpretation of desk based publicly available information, including documentation, obtained from third parties and from the Client on the history and usage of the site, unless specifically identified in the Services and the limitations below:

a. The Services were based on information and/or analysis provided by independent testing and information services or laboratories upon which RSK was reasonably entitled to rely.

b. The Services were limited by the accuracy of the information, including documentation, reviewed by RSK and the observations possible at the time of the visual inspection.

c. The Services did not attempt to independently verify the accuracy or completeness of information, documentation or materials received from the Client or third parties, including laboratories and information services, during the performance of the Services.

d. The Client has identified in writing to RSK, the information, reports, findings, surveys and preliminary works RSK may not rely upon when providing the Services.

RSK is not liable for any inaccurate information or conclusions, the discovery of which inaccuracies required the doing of any act including the gathering of any information which was not reasonably available to RSK, and including the doing of any independent investigation of the information provided to RSK, save as otherwise provided in the terms of the Appointment between the Client and RSK.

1.9 Any site drawing(s) provided in this Report is (are) not meant to be an accurate base plan for scale measurement but is (are) used to present the general relative locations of features on, and surrounding, the site. Features (intrusive and sample locations etc) annotated on site plans are not drawn to scale but are centred over the approximate location. Such features should not be used for accurate setting out and should be considered indicative only.

1.10 Should RSK be requested to review the Report after the date of issue of this Report, RSK shall be entitled to additional payment at the existing rates, or such other terms as agreed between RSK and the Client.

2. Service Constraints where the Report provides an intrusive assessment of ground conditions:

2.1 The intrusive environmental ground investigation aspects of the Services are a limited sampling of soil from the site, at pre-determined locations based on the known historic / operational configuration of the site. The conclusions given in this Report are based on information gathered at the specific test locations and can only be extrapolated to an undefined limited area around those locations. The extent of the limited area depends on the properties of the materials adjacent and local conditions, together

with the position of any current structures and underground utilities and facilities, and natural and other activities on site. In addition, chemical analysis was carried out for a limited number of parameters (as stipulated in the scope agreed between the Client and RSK, based on an understanding of the available operational and historical information) and it should not be inferred that other chemical species (not tested) are not present.

2.2 The comments given in this Report and the opinions expressed are based on the ground conditions encountered during the site work and on the results of tests made in the field and in the laboratory. The extent of the exploratory holes, laboratory testing and monitoring undertaken may have been restricted due to a number of factors including accessibility, the presence of buried or overhead services, current development, site usage, timescales or the Client's specification. The exploratory holes only assess a small proportion of the site area with respect to the site as a whole, and as such may only provide an indicative assessment of ground conditions on site. There may be conditions pertaining to the site that have not been disclosed by the investigation and therefore could not be taken into account. In particular, it should be noted that there may be areas of made ground not detected due to the limited nature of the investigation or the thickness and quality of made ground across the site may be variable. In addition, groundwater levels and ground gas concentrations and flows, may vary from those reported due to seasonal, or other, effects and the limitations stated in the data should be recognised. The presence of hotspots of undisclosed contamination or exceptional and unforeseen ground conditions cannot be discounted.

2.3 Where the Services include Investigation of an exploratory nature or relating to physical ground works, any costings and prices provided in the Report are estimated and provided for guidance purposes only. The actual cost and time quantities shall be remeasured and shall be dependent upon the ground or other conditions, constraints present, and number and depth of the investigation locations, which shall influence the number of samples and tests required, and the quantities of soil being classified.

2.4 Asbestos is often observed to be present in soils in discrete areas. Whilst asbestos-containing materials may have been locally encountered during the fieldworks or supporting laboratory analysis, the history of brownfield and demolition sites indicates that asbestos fibres may be present more widely in soils and aggregates, which could be encountered during more extensive ground works. However, this Report does not constitute an asbestos survey. On this basis, the presence of asbestos on site cannot be discounted and a full asbestos survey should be undertaken.

2.5 Unless stated otherwise, only preliminary geotechnical recommendations are presented in this Report and these should be verified in a Geotechnical Design Report, once proposed construction and structural design proposals are confirmed. Eurocode 7 gives guidance on the type of sampling, sample quality, number and spacing of intrusive investigations, and number of laboratory tests required. It is intended that the Geotechnical Information section of this Report will fulfil the general requirements of the Ground Investigation Report as set out in section 6 of Eurocode7, although this is subject to the restrictions imposed on the investigation, as listed above. For geotechnical design, Eurocode 7 requires the Geotechnical Design Report to address both the geotechnical and structural aspects of the geotechnical design for both the limit and serviceability states. The Geotechnical Appraisal section of this Report will not meet the requirements of a Geotechnical Design Report (GDR) and should therefore be used for preliminary guidance only.

3. Service Constraints where the Report relates to Surface Water Management:

3.1 The Surface Water Management Inspection (SWMI) Report, documents provided, observations, actions, and recommendations, with respect to the management of potential pollution issues to surface waters, made during the site Inspection visit, are those present at the time of the visit, and may not represent those recorded by others on the same day.

3.2 The comments given in this Report and the opinions expressed are based on the weather, ground and ground water conditions encountered during the site work and on the results of tests made in the field and in the laboratory. However, there may be conditions pertaining to the site that have not

been disclosed by the inspection and therefore could not be taken into account. In addition, groundwater levels and flows, may vary from those Reported due to seasonal, or other, effects and the limitations stated in the data should be recognised.

3.3 RSK places a degree of dependence upon oral information provided by site representatives, which is not readily verifiable through visual inspection, or supported by any available written documentation. RSK shall not be held responsible for conditions or consequences arising from relevant facts that were not fully disclosed by facility or site representatives at the time this Report was prepared.

3.4 This Report is a live document, to be continually reviewed and updated as the development progresses or other changes occur on site. RSK can only maintain the currency of this Report through the Client requesting support with supplementary site visits or attendance at meetings ahead of key stages of the development in relation to surface water management. Our risk rating assesses a number of risk factors in line with the source-pathway- receptor model and is therefore subject to constant change.

3.5 Standard design drawings are indicative. Material types, dimensions and construction details will need to be adjusted by the Client to suit the specific conditions / flows on Site.

3.6 The full responsibly for implementing the site-specific protection and maintenance measures to protect the surface water system as stated in this Report, remains with the Client and their site management team. Additional control measures may be required to achieve the objectives set out in the Surface Water Management Plan to be implemented and financed by the Client.

4. Service Constraints where the Report relates to Waste Management:

4.1 In accordance with the definition provided in the Waste Framework Directive (WFD), materials are only considered waste if 'they are discarded, intended to be discarded or required to be discarded, by the holder'. Naturally occurring soils are not considered waste if re-used on the site of origin for the purposes of development. Soils such as made ground that are not of clean and natural origin (irrespective of whether they are contaminated or not) and other materials such as recycled aggregate, do not necessarily become waste until the criteria above are met. Excavation arisings from the development may therefore be classified as waste if surplus to requirements and/or unsuitable for re-use.

4.2 It is the duty of the waste producer, to ensure that all waste is accurately classified prior to waste disposal. Technical Guidance WM3 (EA, 2018) sets out in its Appendix D requirements for waste sampling. It is a legal requirement to correctly assess and classify waste. The level of sampling should be proportionate to the volume of waste and its heterogeneity. Unless otherwise stated, the waste assessment presented in this Report should be considered as preliminary and further testing and assessment of the waste under the provisions of a Waste Sampling Plan may be required to obtain the necessary level of data required for basic characterisation of the waste in support of disposal.

4.3 Unless stated otherwise in the Report, information relating to historical operations at the site was not reviewed as part of the assessment by RSK. In addition, unless otherwise stated in the Services, RSK was not present during the collection of the samples nor had any input on the chemical testing suite. Therefore, the waste assessment and classification detailed in this Report are based solely on any information that were provided to RSK (e.g., laboratory chemical data, exploratory hole records) and were completed without prejudice for our Client.

4.4 RSK's assumes that any ground investigation data, chemical testing results etc., that were provided by the Client to inform the waste assessment and supporting review were carried out in accordance with current best practice and relevant guidance/ standards, where applicable. Thus, the comments given in this Report and the opinions expressed are based solely on the information provided by the Client. However, it is noted that there may be conditions pertaining to the site that have not been disclosed by the investigation and therefore could not be taken into account as part of the RSK assessment.

5. Service Constraints for Construction Environmental Management Plan Reports:

5.1 This Report should be considered in the light of any changes in legislation, statutory requirement or industry practices that may have occurred subsequent to the date of issue.

5.2 The measures and comments outlined in this Report and any opinions expressed are based on the plans provided at the time and discussions with relevant parties. However, there may be conditions pertaining to the site that have not been disclosed by investigations and therefore could not be taken into account.

5.3 This CEMP is a live document and is subject to change throughout the project, as and when necessary, to ensure management of environmental aspects remains relevant, and to ensure continued compliance with legislation and commitments as they may change. RSK understands that this CEMP will be reviewed by the Client every six months and updated as and when necessary.

5.4 It is the full responsibility of the Principal Contractor/ Client to ensure that their works do not contravene legal requirements, and adherence to this CEMP alone cannot be a full defence regarding legal action against the Principal Contractor.

6. Service Constraints where the Report relates to Ground Gas Membrane Verification:

6.1 This Report is limited to the verification of the gas resistant membrane/vapour membrane/ radon barrier after installation and no inspections were undertaken of the substrate (i.e. prepared ground). The Report therefore does not constitute as a full verification of ground gas protection system.

6.2 The comments given in this Report and the opinions expressed, are based on the condition of the ground gas membrane as encountered at the time of inspection by suitably qualified personnel. RSK cannot accept liability for any subsequent change to the status of the gas membrane by follow-on trades or other construction activity.

6.3 Where not designed by RSK, the verification of protection measures is carried out with reference to the gas protection design provided by the Client. RSK assume the scope of gas protection measures as determined by third parties to be correct and to have achieved any required approval from authorities.

6.4 The Ground Gas Design Report/Remediation Strategy and Verification Plan contains details of the procedures to be adopted for inspection and validation of the works. However, it should be noted that responsibility for the correct implementation of the strategy lies with the appointed contractor. RSK cannot be held responsible for any remedial works that are carried out without the agreed procedures involving either direct supervision by RSK, or inspection and validation of the works by a representative from RSK.

7. Service Constraints for Environmental Due Diligence (EDD)Reports:

7.1 The comments given in this Report and the opinions expressed are based on the information obtained and reviewed as part of the desk-based assessment. However, there may be conditions pertaining to the Site that have not been disclosed by the assessment and therefore could not be taken into account. Furthermore, no intrusive investigations, monitoring or sampling have been undertaken to confirm the environmental status of the site, therefore any comments relating to ground conditions and subsurface contamination are based solely on a review of desk-based information.

7.2 This Report describes the results of the EDD exercise. The scope of this EDD Report, where appropriate, covers legal or regulatory compliance with respect to UK or international regulations associated with environmental matters.

7.3 As with any EDD exercise, there is a certain degree of dependence upon information provided by the target company. The EDD does not include a site walkover / visit or liaison with site representatives unless identified in the Services. Therefore, the assessment is based on the available desk study information. Also, there is a certain degree of dependence upon oral information provided

by site representatives, which is not readily verifiable through visual inspection, or supported by any available written documentation. RSK shall not be held responsible for conditions or consequences arising from relevant facts that were not fully disclosed by facility or site representatives at the time this EDD exercise was performed.

7.4 This Report, including all supporting data and notes (collectively referred to hereinafter as "information"), was prepared or collected by RSK for the benefit of its Client.

7.5 The comments given in this Report and the opinions expressed are based on the information obtained and reviewed as part of the desk-based assessment and the site inspection visit. However, there may be conditions pertaining to the Site that have not been disclosed by the assessment and therefore could not be taken into account. Furthermore, no intrusive investigations, monitoring or sampling have been undertaken to confirm the environmental status of the Site therefore any comments relating to ground conditions and subsurface contamination are based solely on a review of desk-based information and observations collected during the site inspection visit.

8. Service Constraints for Ground source heat energy Reports:

8.1 It is understood that this is a desktop survey only and that there are no requirements for a site walkover, service utility survey, or provision of service plans. These services can be provided upon request if required.

8.2 At a later stage, it is possible that a thermal response test (TRT) will need to be completed, for which a test borehole will have to be drilled, and these would be costed at the time. RSK can provide all aspects of subsequent site work for a GSHP system if required.

9. Service Constraints for Water Abstraction Borehole Reports:

9.1 The Report aims principally to only identify and assess the suitability of the site for a water abstraction borehole. This Report should be considered in the light of any changes in legislation, statutory requirements, and industry practices, that have occurred subsequent to the date of the Report.

9.2 Unless stated in the Report, the opinions expressed in this Report including all comments and recommendations provided are on the basis of the information obtained from a desk-based assessment.

Appendix B
DEVELOPMENT DRAWINGS

Site Area Schedule_Full & Outline		
Name	Area	
	m2	hectares
Full Planning	964487 m²	96.4 hectare
Outline Planning	631689 m²	63.2 hectare
	1596176 m²	159.6 hectare

Construction (Design and Management) Regulations

Design risk assessments are carried out throughout the design stage of this project in accordance with company procedures and manuals. Where reasonably possible all areas of risk applicable to design and end use of the construction have been identified and then eliminated, mitigated or recorded as a residual risk. Note that general risks of which a competent designer or contractor should be aware are not included. This drawing is to be read in conjunction with the construction information and all related documents prepared in accordance with the current Construction (Design and Management) Regulations 2015 and all applicable Health and Safety legislation as currently amended.

LEGEND - Proposed:

- Proposed Planning Boundary
- Other Land Under the Control of the Applicant
- Existing Buildings
- Existing Roads
- Proposed New Buildings / Structures
- Proposed New Roads
- Proposed Widened Existing Roads
- Operational Lagoon
- Lagoon Infill
- Proposed Gantry
- OUTLINE AREA

Refer to Landscape Architect drawings for Landscaping information

E 277399.398
N 184769.800

E 277434.883
N 187423.572

COAL STOCKYARDS
MORFA COKE OVENS
FULL PLANNING AREA
Operational Lagoon
OUTLINE PLANNING AREA
MARGAM MOORS
BOS PLANT
CONCAST
COOLING TOWER
PROCESS BAY
VLN TEEMING BAY
RAW MATERIALS
REFRACTORY STORES
TEXTURING
HOT ROLLED PRODUCTS
PICKLING BAY
CAPL
COLD ROLLED PRODUCTS

No.	Unit Name
01	Canopy Hood
02	Consteel Conveyor
03	Fume Treatment Plant (FTP)
04	Shredded Scrap Yard
05	Hot Briquetted Iron (HBI) Dolo & Lime Bunker
06	Ferro Alloys Bunker
07	Fire Water Pump House
08	Primary Pump House
09	Secondary Pump House
10	Melt Shop Power Distribution Building
11	Melt Shop WTP Electrical Building
12	Melt Shop FTP Electrical Building
13	Compressor House
14	Car Parking Area
15	Changing & Office Block Building
16	Emergency Tank
17	Lagoon Water Pump House
18	Green Walkway Extension
19	Active Carbon Injection Silos
20	Powder Silos
21	Main Power Centre
22	Power Compensation Building
30	HBI & Pig Iron Storage Area
31	Charging Bay South Extension
32	HBI Electrical Building

REV	DESCRIPTION	DRAWN BY	CHECKED BY	APPROVED BY	DATE
P07	Blue Line Amended				15/10/2024
P06	Issue to NPT				23/08/2024
P05	Revised Boundary following Client Comments				14/08/2024
P04	Updates following comments from Planning				15/07/2024
P03	Planning Issue				27/06/2024
P02	Updates following comments from Planning				20/06/2024
P01	Building names updated				14/06/2024
P00	Initial Issue				11/06/2024

RIBA PLAN OF WORK 2013/STAGE	LEVEL OF MODEL DEFINITION (LoD)
Stage 3 - Spatial Coordination	LoD 3 - Approximate Model
PURPOSE OF ISSUE - SUITABLE FOR ...	STATUS or SUITABILITY
Information	Status S2 - Delivery Team Information

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CARDIFF 029 2052 8140
LONDON 0207 138 3560
WREXHAM 01978 357 857
www.lawray.co.uk

CLIENT
Tata Steel UK Ltd.

PROJECT TITLE
EAF PROJECT, PORT TALBOT

DRAWING TITLE
Proposed Site Plan - Hybrid Planning Application

PROJECT No: 20007
SCALE @ A0: As indicated

DRAWING No: EAF-LAW-X-X-DR-A-900009
REVISION: P07

DO NOT SCALE

Any discrepancy or query concerning this drawing should be referred to the Architect

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Reg. Co. No. 2724178, VAT Reg. No. 134 2146 06.

Proposed Site Plan - Full and Outline Application Areas
1 : 3000

Plot Date: 15/10/2024 15:19:03

File Name: Autodesk Docs://20007_EAF Project/EAF-LAW-00-XX-M3-A-000001_Site Plan Master.rvt

Construction (Design and Management) Regulations

Design risk assessments are carried out throughout the design stage of this project in accordance with company procedures and manuals. Where reasonably possible all areas of risk applicable to design and end use of the construction have been identified and then eliminated, mitigated or recorded as a residual risk. Note that general risks of which a competent designer or contractor should be aware are not included. This drawing is to be read in conjunction with the construction information and all related documents prepared in accordance with the current Construction (Design and Management) Regulations 2015 and all applicable Health and Safety legislation as currently amended.

Proposed Planning Boundary

Other Land Under the Control of the Applicant

Indicative Underground Cable Route

FULL PLANNING AREA

No.	Unit Name
23	National Grid Compound
24	Incoming Scrap Yard Electrical Building
25	Scrap Storage & Processing Yard
26	Overflow Scrapyard
27	Non Ferrous Processing Area
28	Scanning Facilities
29	Railway Weigh Bridge

	Outline Scrap - Phase 2	Building/Plant/External	*Maximum Dimensions* L	W	H
Use 23	National Grid Compound	P	200m	100m	15m
Use 24	Incoming Scrap Yard Electrical Building	B	35m	25m	15m
Use 25	Office	B	40m	20m	8m
	Car Park	E	25m	25m	0m
	Disabled Car Park	E	3.6m	1.5m	0m
	Workshop	B	70m	25m	8m
	Scrap Storage	E	varies	varies	7m
	Pre-Shredder Feed Stock Pile	E	25m	20m	6m
	Pre-Shredder	P	12m	11.3m	9m
	Shredder Feed Stock Pile	E	62m	32m	9m
	Shredder (Block 01 - Infeed Conveyor)	B	30m	10m	10m
	Shredder (Block 02 - Hammer Mill)	B	40m	40m	20m
	Shredder (Block 03 - Air Separation)	B	25m	125m	20m
	Shredder (Block 04 - Picking & Stacker)	B	60m	125m	20m
	Acoustic Mitigation Barrier	B	800m	5m	15m
	Lorry Tipping Area	E	150m	50m	7m
Use 26	HARSCO Shredder	P	50m	50m	7m
	Shear	P	58.7m	53m	7m
	Overflow Scrap Bay 01	E	50m	100m	7m
	Overflow Scrap Bay 02	E	80m	68m	7m
	Existing Repurposed Building	B	115m	65m	15m
Use 27	Non Ferrous Processing Area	E	67m	125m	13m
Use 28	Scanning Facilities	B	15m	15m	15m
Use 29	Railway Weigh Bridge	B	15m	15m	15m

Minimum building dimensions to be 0m to indicate not constructing

E 277399.398
N 184769.800

E 277434.883
N 187423.578

FULL PLANNING AREA

OUTLINE PLANNING AREA

Operational Lagoon

Existing Repurposed Building

HARSCO Shredder

Overflow Scrap Storage

Overflow Scrap Storage

Shear (possible location)

Lorry Tipping Area

Shredder 04

Shredder 03

Shredder 02

Shredder Feed Stockpile

Scrap Storage

Workshop

Memorial to remain in situ

Disabled Parking

Office

Car Park

Offload Area

Pre-Shredder Feed Stockpile

Pre-Shredder

Containers

Over Railway Line

Acoustic Mitigation Barrier

Railway Weigh Bridge

23

24

25

26

27

28

29

Proposed Site Plan - Outline Phase 2
1 : 3000

P06	Acoustic Barrier Amended	15/10/2024
P05	Updated following NPT comments	05/09/2024
P04	Issue to NPT	23/08/2024
P03	Revised Boundary following Client Comments	14/08/2024
P02	Updates following comments from Planning	16/07/2024
P01	Planning Issue	27/06/2024
P00	Initial Issue	20/06/2024

REV	DESCRIPTION	DRAWN BY	CHECKED BY	APPROVED BY	DATE

RIBA PLAN OF WORK WORKSTAGE	LEVEL OF MODEL DEFINITION (LoD)
Stage 3 - Spatial Coordination	LoD 3 - Approximate Model
PURPOSE OF ISSUE - SUITABLE FOR ...	STATUS or SUITABILITY
Information	Status S2 - Delivery Team Information

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CARDIFF 029 2053 8140
LONDON 0207 138 3560
WREXHAM 01978 357 887
www.lawray.co.uk

CLIENT
Tata Steel UK Ltd.

PROJECT TITLE
EAF PROJECT, PORT TALBOT

DRAWING TITLE
Proposed Site Plan - Indicative Outline Plan - Phase 2

PROJECT No 20007

SCALE @ A0 As indicated

DRAWING No. EAF-LAW-X-X-DR-A-900010 REVISION P06

TYPE: TTC- Project - Originator - Volume - Level - Type - Role - Number; ISO3D Project - Originator - Functional - Spatial - Form - Discipline - Number; Breakdown: Breakdown

PAPER SIZE A0 (H 841 x W 1189)

DO NOT SCALE

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Print Date: 16/10/2024 15:01:51

File Name: Autodesk Docs://20007_EAF Project/EAF-LAW-00-XX-M3-A-000001_Site Plan Master.rvt

Appendix C
TECHNICAL BACKGROUND

C 1. Desk Study

Aquifer designation and Source protection zones (England and Wales)

Principal aquifer: layers of rock or drift deposit that have high intergranular and/or fracture permeability (usually providing a high level of water storage). They may support water supply and/or river base flow on a strategic scale.

Secondary A aquifer: 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.

Secondary B aquifer: predominantly lower permeability layers that may store and yield limited amounts of groundwater due to localised features such as fissures, thin permeable horizons and weathering.

Secondary undifferentiated aquifer: it has not been possible to attribute either a category A or B to a rock type. In most cases this means that it was previously designated as both a minor and non-aquifer in different locations owing to the variable characteristics.

Unproductive' strata: low permeability with negligible significance for water supply or river base flow.

The EA generally adopts a three-fold classification of source protection zones (SPZ) surround abstractions for public water supply. The Site is situated in an area defined as follows:

- Zone 1 or the 'inner protection zone' is located immediately adjacent to the groundwater source and is based on a 50-day travel time from any point below the water table to the source. It is designed to protect against the effects of human activity and biological/chemical contaminants that may have an immediate effect on the source
- Zone 2 or the 'outer protection zone' is defined by a 400-day travel time from a point below the water table to the source. The travel time is designed to provide delay and attenuation of slowly degrading pollutants
- Zone 3 or the 'total catchment' is the area around the source within which all groundwater recharge is presumed to be discharged at the source.

Preliminary risk assessment methodology

LCRM outlines the framework to be followed for risk assessment in the UK. The framework is designed to be consistent with UK legislation and policies including planning. An outline conceptual model should be formed at the preliminary risk assessment stage that collates all the existing information pertaining to a site in text, tabular or diagrammatic form. The outline conceptual model identifies potentially complete (termed possible) contaminant linkages (contaminant–pathway–receptor) and is used as the basis for the design of the site investigation. The outline conceptual model is updated as further information becomes available, for example as a result of the site investigation.

Production of a conceptual model requires an assessment of risk to be made. Risk is a combination of the likelihood of an event occurring and the magnitude of its consequences. Therefore, both the

likelihood and the consequences of an event must be taken into account when assessing risk. RSK has adopted guidance provided in CIRIA C552 for use in the production of conceptual models.

The likelihood of an event can be classified on a four-point system using the following terms and definitions based on CIRIA C552:

- highly likely: the event appears very likely in the short term and almost inevitable over the long term or there is evidence at the receptor of harm or pollution
- likely: it is probable that an event will occur or circumstances are such that the event is not inevitable, but possible in the short term and likely over the long term
- low likelihood: circumstances are possible under which an event could occur, but it is not certain even in the long term that an event would occur and it is less likely in the short term
- unlikely: circumstances are such that it is improbable the event would occur even in the long term.

RSK also adopt a 'very unlikely' probability to account for where there may be increased certainty over whether an event is probable in the long term.

The severity can be classified using a similar system also based on CIRIA C552. The terms and definitions relating to severity are:

- severe: short term (acute) risk to human health likely to result in 'significant harm' as defined by the Environment Protection Act 1990, Part IIA. Short-term risk of pollution of sensitive water resources. Catastrophic damage to buildings or property. Short-term risk to an ecosystem or organism forming part of that ecosystem (note definition of ecosystem in 'Draft Circular on Contaminated Land', DETR 2000)
- medium: chronic damage to human health ('significant harm' as defined in 'Draft Circular on Contaminated Land', DETR 2000), pollution of sensitive water resources, significant change in an ecosystem or organism forming part of that ecosystem
- mild: pollution of non-sensitive water resources. Significant damage to crops, buildings, structures and services ('significant harm' as defined in 'Draft Circular on Contaminated Land', DETR 2000). Damage to sensitive buildings, structures or the environment
- minor: harm, not necessarily significant, but that could result in financial loss or expenditure to resolve. Non-permanent human health effects easily prevented by use of personal protective clothing. Easily repairable damage to buildings, structures and services.

Once the probability of an event occurring and its consequences have been classified, a risk category can be assigned according to the following table.

		Consequences			
		Severe	**Medium**	**Mild**	**Minor**
Probability	**Highly likely**	Very high	High	Moderate	Moderate/low
	Likely	High	Moderate	Moderate/low	Low
	Low likelihood	Moderate	Moderate/low	Low	Very low
	Unlikely	Moderate/low	Low	Very low	Very low
	Very Unlikely	Low	Very Low	Negligible	Negligible

Definitions of these risk categories are as follows together with an assessment of the further work that may be required:

- very high: there is a high probability that severe harm could occur or there is evidence that severe harm is currently happening. This risk, if realised, could result in substantial liability; urgent investigation and remediation are likely to be required
- high: harm is likely to occur. Realisation of the risk is likely to present a substantial liability. Urgent investigation is required. Remedial works may be necessary in the short term and are likely over the long term
- moderate: it is possible that harm could arise, but it is unlikely that the harm would be severe and it is more likely that the harm would be relatively mild. Investigation is normally required to clarify the risk and determine the liability. Some remedial works may be required in the longer term
- low: it is possible that harm could occur, but it is likely that if realised this harm would at worst normally be mild
- very low: there is a low possibility that harm could occur and if realised the harm is unlikely to be severe.

H2 Site Investigation Methodology

Note delete this section for a desk study report.

Ground gas monitoring

An infrared gas meter was used to measure gas flow, concentrations of carbon dioxide (CO_2), methane (CH_4) and oxygen (O_2) in percentage by volume, while hydrogen sulphide (H_2S) and carbon monoxide (CO) were recorded in parts per million. Initial and steady state concentrations were recorded. In addition, during the first monitoring round, all wells were screened with a PID to establish if there are any interferences and cross-sensitivity of other hydrocarbons with the infrared gas meter.

Low flow groundwater sampling

Groundwater samples were retrieved using a low-flow purging and sampling methodology

The low-flow method relies on moving groundwater through the well screen at approximately the same rate as it flows through the geological formation. This results in a significant reduction in the volume of water extracted before sampling and significantly reduces the amount of disturbance of the water in the monitoring well during purging and sampling. Drawdown levels in the monitoring well and water quality indicator parameters (pH, temperature, electrical conductivity, redox potential and dissolved oxygen) are monitored during low-flow purging and sampling, with stabilisation indicating that purging is complete and sampling can begin. As the flow rate used for purging, in most cases, is the same or only slightly higher than the flow rate used for sampling, and because purging and sampling are conducted as one continuous operation in the field, the process is referred to as low-flow purging and sampling.

Reuse of suitable materials

The Definition of Waste: Development Industry Code of Practice (CL:AIRE, 2011) (CoP) was developed in cons**u**ltation with the Environment Agency and development industry to enable the re-use of materials under certain scenarios and subject to demonstrating that specific criteria are met. The current reuse scenarios covered by the CoP comprise

- reuse on the site of origin (with or without treatment)
- direct transfer of clean and natural soils between sites
- use in the development of land other than the site of origin following treatment at an authorised Hub site (including a fixed soil treatment facility).

The importation of made ground soils (irrespective of contamination status) or crushed demolition materials is not permitted currently under the CoP and requires either a standard rules environmental permit or a U1 waste exemption (see below).

In the context of excavated materials used on-sites undergoing development, four factors are considered to be of particular relevance in determining if the material is a waste or when it ceases to be waste:

- the aim of the Waste Framework Directive is not undermined, i.e. if the use of the material will create an unacceptable risk of pollution of the environment or harm to human health it is likely to be waste
- the material is certain to be used
- the material is suitable for use both chemically and geotechnically
- only the required quantity of material will be used.

The CoP requires the preparation of a materials management plan (MMP) that confirms the above factors will be met. This plan needs to be reviewed by a 'Qualified Person' (QP) who will then issue a declaration form to the EA. As the project progresses, data must be collated and on completion a verification report produced that shows the MMP was followed and describes any changes.

The MMP establishes whether specific materials are classified as waste and how excavated materials will be treated and/or reused in line with the CoP. The MMP is likely to form part of the site waste management plan.

Appendix D
EXPLORATORY HOLE RECORDS (INC PROJECT CRONUS)

RSK GEOSCIENCES

RAW FIELD DATA

BOREHOLE LOG

Contract:	Client:	Borehole:
Project Cronus	**Tata Steel UK Ltd**	**BH01**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**15.10.21** End: **19.11.21**	**---**	**E:277486.3 N:186412.6**	**1** of **2**

Depth (m)	Samples & Testing: No	Type	Results	Mechanical Log: TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
										MADE GROUND. Grass over soft brown slight sandy slightly gravelly SILT. Sand is fine and medium. Gravel is angular fine and medium of slag and brick.	0.20	
										[Open Hole]. MADE GROUND. Dark brownish grey gravelly SAND with low cobble content. Sand is fine to coarse. Gravel is angular and subangular fine to coarse of slag and occasional brick.	(5.80)	
3.00-3.45	1	SPT(c)	N=20						2			
											6.00	
										Dark grey to light greyish brown slightly silty SAND. Sand is fine and medium.		
6.45-6.56	2	SPT(c)	1/2 for 35mm								(3.65)	

Boring Progress and Water Observations

Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

General Remarks

1. Position checked with Ground Penetrating Radar, CAT and Genny prior to excavation.
2. Inspection pit hand dug to 1.2m depth.
3. Down borehole checks for buried ferrous objects carried out during drilling by specialist unexploded ordnance (UXO) officer using magnetometer at regular intervals to 7m depth.
4. Groundwater strike encountered at 1.90m.

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Rotary Cored	**Beretta T41**	**G. Haddock**	**RHorne**	JCB

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RAW FIELD DATA

BOREHOLE LOG

Contract:	Client:	Borehole:
Project Cronus	**Tata Steel UK Ltd**	**BH01**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**15.10.21** End: **19.11.21**	**---**	**E:277486.3 N:186412.6**	**2** of **2**

Depth (m)	Samples & Testing: No	Type	Results	Mechanical Log: TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
										Dark grey to light greyish brown slightly silty SAND. Sand is fine and medium. *(stratum copied from 6.00m from previous sheet)*	9.65	
9.65-9.80	1	B								Dark grey to light greyish brown silty SAND. Sand is fine.	(0.95) 10.60	
10.50-10.70	3	SPT(c)	2,1/2 for 50mm							Soft to firm light blueish grey slightly peaty slightly sandy clayey SILT. Sand is fine.		
11.00-11.20	2	D								. . . 10.60m to 10.80m; soft.		
										. . . 11.50m to 12.00m; dark brown fibrous peat.	(1.80) 12.40	
12.50-13.00	3	B								Dark brown fibrous locally amorphous PEAT. . . . 12.40m to 12.50m; amorphous peat.	(0.70) 13.10	
										Stiff to firm blueish grey sandy SILT. Sand is fine.	13.50	
13.40-13.50	4	D								Borehole terminated early due to ground gas encountered during drilling. Rotary borehole terminated at 13.50m depth.		

Boring Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Rotary Cored	**Beretta T41**	**G. Haddock**	**RHorne**	JCB

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RAW FIELD DATA

BOREHOLE LOG

Contract:	Client:	Borehole:
Project Cronus	**Tata Steel UK Ltd**	**BH02**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**01.11.21** End: **11.11.21**	**---**	**E:277282.0 N:186206.8**	**1** of **4**

Depth (m)	Samples & Testing: No	Type	Results	Mechanical Log: TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
										Dark grey slightly sandy slightly clayey GRAVEL. Sand is fine to coarse. Gravel is angular fine to coarse of slag.	(1.00) 1.00	
1.00-1.00	1	ES	1xT+1xJ+1xV							Light brown to greyish brown SAND. Sand is fine and medium.		
2.00-2.00	2	ES	1xT+1xJ+1xV									
3.00-3.00	3	ES	1xT+1xJ+1xV								(4.00)	
4.00-4.00	4	ES	1xT+1xJ+1xV								5.00	
5.00-5.00	5	ES	1xT+1xJ+1xV							Grey slightly silty SAND. Sand is fine.	(2.00) 7.00	
7.00-8.50										Grey locally dark grey SAND. Sand is fine and medium.		
7.00-7.23	1	SPT	/1,1,1 for 75mm	100							(1.25) 8.25	
7.10-7.10	6	ES	1xT+1xJ+1xV									
8.50-10.00										Grey clayey SAND. Sand is fine and medium.	8.70	
8.60-8.60	7	ES	1xT+1xJ+1xV	100						*Description on next sheet*		

Boring Progress and Water Observations

Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

General Remarks

1. Position checked with Ground Penetrating Radar, CAT and Genny prior to excavation.
2. Inspection pit hand dug to 1.2m depth.
3. Down borehole checks for buried ferrous objects carried out during drilling by specialist unexploded ordnance (UXO) officer using magnetometer at regular intervals to 7m depth.

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Rotary Cored	**Beretta T41**	**G. Haddock**	**RHorne**	JCB

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RAW FIELD DATA

BOREHOLE LOG

Contract:	Client:	Borehole:
Project Cronus	**Tata Steel UK Ltd**	**BH02**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**01.11.21** End: **11.11.21**	**---**	**E:277282.0 N:186206.8**	**2** of **4**

Depth (m)	Samples & Testing: No	Type	Results	Mechanical Log: TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
										Soft grey slightly sandy silty CLAY. Sand is fine. With fibrous peat. *(stratum copied from 8.70m from previous sheet)*	(0.71) 9.41	
9.60-9.60	8	ES	1xT+1xJ+1xV	100						. . . 9.32m to 9.38m; peaty clay. . . . 9.38m to 9.41m; slightly clayey fibrous peat.	(0.59) 10.00	
10.00-10.45	2	SPT	N=32							Soft grey to blueish grey sandy CLAY. Sand is fine.		
10.30-10.30	9	ES	1xT+1xJ+1xV							Soft to firm grey slightly peaty silty CLAY. . . . 10.00m to 10.30m; soft to friable brown slightly clayey pseudo-fibrous peat.	(1.70) 11.70	
11.50-13.00												
11.50-11.50	10	ES	1xT+1xJ+1xV	100						Soft to firm grey sandy CLAY. Sand is fine.	(1.40) 13.10	
13.00-14.50												
13.00-13.23	3	SPT	1/1,1 for 75mm							Grey clayey SAND. Sand is fine.		
13.00-13.00	11	ES	1xT+1xJ+1xV	100						. . . 14.07m to 14.17m; fine sand . . . 14.17m to 14.38m; slightly sandy silty clay.	(1.40) 14.50	
14.50-16.00				100						Soft grey sandy SILT. Sand is fine.	(1.00) 15.50	
										Grey silty SAND. Sand is fine.	(0.50) 16.00	
16.00-17.50												
16.00-16.23	4	SPT	1/1,1,1/1,1 for 75mm	100						Grey slightly silty SAND. Sand is fine. . . . 16.00m to 16.80m; loose slightly silty sand.	(1.70) 17.70	
17.50-19.00				87						Firm grey slightly peaty silty CLAY.		

Boring Progress and Water Observations

Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Rotary Cored	**Beretta T41**	**G. Haddock**	**RHorne**	JCB

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RAW FIELD DATA

BOREHOLE LOG

Contract:	Client:	Borehole:
Project Cronus	**Tata Steel UK Ltd**	**BH02**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**01.11.21** End: **11.11.21**	**---**	**E:277282.0 N:186206.8**	**3** of **4**

Depth (m)	Samples & Testing: No	Type	Results	Mechanical Log: TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
				87						Firm grey slightly peaty silty CLAY. *(stratum copied from 17.70m from previous sheet)*	(1.10)	
										. . . 18.55m to 18.66m; fibrous peat.	18.80	
19.00-20.00 19.00-19.44	5	SPT	5,8/12,12,13,13 for 67mm	100						Firm to stiff grey locally light brown slightly sandy slightly gravelly silty CLAY. Sand is fine to coarse, predominantly fine and medium. Gravel is angular to subrounded fine to coarse of mudstone and occasional sandstone. . . . 18.80m to 19.23m; firm. . . . 19.00m to 19.08m; fine and medium Sand.	(3.70)	
											22.50	
22.50-22.95	6	SPT	N=36							Grey slightly silty gravelly SAND. Sand is fine to coarse. Gravel is subangular and subrounded fine and medium of siltstone and sandstone.	(4.30)	
25.50-25.87	7	SPT	5,12/13,19,18 for 73mm									
											26.80	
										Description on next sheet		

Boring Progress and Water Observations

Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Rotary Cored	**Beretta T41**	**G. Haddock**	**RHorne**	JCB

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RAW FIELD DATA

BOREHOLE LOG

Contract:	Client:	Borehole:
Project Cronus	**Tata Steel UK Ltd**	**BH02**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**01.11.21** End: **11.11.21**	**---**	**E:277282.0 N:186206.8**	**4** of **4**

Depth (m)	Samples & Testing: No	Type	Results	Mechanical Log: TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
										Possible boulder Clay. Recovered as grey sandy clayey GRAVEL. Sand is fine to coarse. Gravel is subangular to rounded fine and medium of siltstone and sandstone. *(stratum copied from 26.80m from previous sheet)*	(5.00)	
											31.80	
										Possible SILTSTONE. Recovered as sandy GRAVEL. Sand is fine to coarse. Gravel is angular of siltstone.	(2.20)	
											34.00	
										Rotary borehole terminated at 34.00m depth.		

Boring Progress and Water Observations

Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Rotary Cored	**Beretta T41**	**G. Haddock**	**RHorne**	JCB

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RAW FIELD DATA

BOREHOLE LOG

Contract:	Client:	Borehole:
Project Cronus	**Tata Steel UK Ltd**	**BH03**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**22.11.21** End: **01.12.21**	**---**	**E:277262.0 N:186016.0**	**1** of **4**

Depth (m)	Samples & Testing: No	Type	Results	Mechanical Log: TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
0.00-0.50	1	B								MADE GROUND: Dark brown/ black gravelly SILT. Gravels are angular to subrounded fine to coarse slag and clinker.	(0.50) 0.50	
0.50-1.00	2	B								MADE GROUND:Dark grey gravelly medium to coarse SAND of clinker and slag material. Gravels are angular to subrounded fine to coarse clinker and slag.	(2.50) 3.00	
3.00-3.30	1	SPT	1/1,1,1 for 75mm							Dark grey fine to medium SAND with rare sandstone gravels and cobbles	(1.00) 4.00	
3.50	1	ES										
										Brown silty fine to medium SAND with occasional reeds or seaweed.	(0.50) 4.50	
4.50-5.20	3	B								Light grey fine to medium SAND.	(0.70) 5.20	
6.00	1	D								Light grey and brown mottled CLAY.	(2.20) 7.40	
6.00-6.23	2	SPT	1/1,1 for 75mm									
										Reddish brown fibrous PEAT horizon with frequent wood inclusions.	(1.10) 8.50	
										Soft light grey CLAY . . . Occasional wood inclusions at the top of the strata		

Boring Progress and Water Observations

Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

General Remarks

1. Position checked with Ground Penetrating Radar, CAT and Genny prior to excavation.
2. Inspection pit hand dug to 1.2m depth.
3. Down borehole checks for buried ferrous objects carried out during drilling by specialist unexploded ordnance (UXO) officer using magnetometer at regular intervals to 7m depth.
4. Groundwater strike encountered at 1.90m

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Rotary Cored	**Beretta T41**	**G. Haddock**	**AGMay**	JCB

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RAW FIELD DATA

BOREHOLE LOG

Contract:	Client:	Borehole:
Project Cronus	**Tata Steel UK Ltd**	**BH03**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**22.11.21** End: **01.12.21**	**---**	**E:277262.0 N:186016.0**	**2** of **4**

Depth (m)	Samples & Testing: No	Type	Results	Mechanical Log: TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
9.00	2	D								Soft light grey CLAY . . . Occasional wood inclusions at the top of the strata*(stratum copied from 8.50m from previous* sheet)	(1.70)	
9.00-9.30	3	SPT	1/1,1,1 for 75mm								10.20	
10.50-10.65	4	SPT	1/1,1,1/1,1 for 75mm							Light grey clayey fine to medium SAND with occasional shell fragments. . . . Becoming a sandy clay.	(0.90) 11.10	
										Light grey fine to medium SAND	(0.90) 12.00	
12.00-13.50	4	B								Light grey slightly clayey fine to medium SAND (very little recovery, sloppy sample)		
12.00-12.23	5	SPT	1/1,1,1/1,1/1,1,1 for 75mm									
13.50-15.00	5	B									(3.00)	
13.50-13.88	6	SPT	N=4								15.00	
15.00-15.45	7	SPT	N=5							Soft light grey sandy CLAY with occasional shell fragments.	(1.50)	
16.40	3	D									16.50	
16.50-18.00	6	B								Firm to stiff dark brown slightly sandy gravelly CLAY with rare pale yellow brown sand inclusions. Gravels are subangular to subrounded fine to coarse sandstone. Poor recovery from 16.5 to 18 and 19.5 to 22.5. Only bulk samples recovered, highly disturbed.		
16.50-16.64	8	SPT	NP									

Boring Progress and Water Observations

Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Rotary Cored	**Beretta T41**	**G. Haddock**	**AGMay**	JCB

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RAW FIELD DATA

BOREHOLE LOG

Contract:	Client:	Borehole:
Project Cronus	**Tata Steel UK Ltd**	**BH03**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**22.11.21** End: **01.12.21**	**---**	**E:277262.0 N:186016.0**	**3** of **4**

Depth (m)	Samples & Testing: No	Type	Results	Mechanical Log: TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
18.00-18.45	9	SPT	N=37							Firm to stiff dark brown slightly sandy gravelly CLAY with rare pale yellow brown sand inclusions. Gravels are subangular to subrounded fine to coarse sandstone.		
										Poor recovery from 16.5 to 18 and 19.5 to 22.5. Only bulk samples recovered, highly disturbed. *(stratum copied from 16.50m from previous sheet)*		
19.00	4	D										
19.00-19.30	10	SPT	10,15/25,17,8 for 31mm									
19.50-21.00	7	B									(6.70)	
20.50-20.67	11	SPT	19,6/39,11 for 7mm									
21.00-22.50	8	B										
22.00-22.45	12	SPT	4,6/10,11,13,16 for 70mm									
											23.20	
										Stiff grey slightly gravelly CLAY with rare black mottling. Gravels are angular to subrounded fine to medium clay stone.		
23.50-24.00	5	D										
23.50-23.90	13	SPT	5,8/13,15,16,6 for 20mm									
24.00-25.50	9	B										
25.00-25.30	14	SPT	6,10/19,26,3 for 4mm									
											(6.60)	
26.50-26.83	15	SPT	6,13/16,22,12 for 31mm									

Boring Progress and Water Observations

Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Rotary Cored	**Beretta T41**	**G. Haddock**	**AGMay**	JCB

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RAW FIELD DATA

BOREHOLE LOG

Contract:	Client:	Borehole:
Project Cronus	**Tata Steel UK Ltd**	**BH03**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**22.11.21** End: **01.12.21**	**---**	**E:277262.0 N:186016.0**	**4** of **4**

Depth (m)	Samples & Testing: No	Type	Results	Mechanical Log: TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
28.00-28.14	16	SPT	25,39/11 for 17mm							Stiff grey slightly gravelly CLAY with rare black mottling. Gravels are angular to subrounded fine to medium clay stone. *(stratum copied from 23.20m from previous sheet)*		
29.50-29.62	17	SPT	9,16/50 for 22mm								29.80	
										Possible weathered MUDSTONE. Recovered as sandy gravel. Sand is fine to coarse. Gravel is angular fine to coarse of mudstone lithorelics.	(1.30)	
											31.10	
										Very weak dark grey MUDSTONE.	(1.50)	
											32.60	
										Rotary borehole terminated at 32.60m depth.		

Boring Progress and Water Observations

Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Rotary Cored	**Beretta T41**	**G. Haddock**	**AGMay**	JCB

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BOREHOLE LOG

Contract:	Client:	Borehole:
Project Cronus	**Tata Steel UK Ltd**	**BH04**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**13.10.21** End: **20.10.21**	**---**	**E:277547.3 N:185924.7**	**1** of **3**

Depth (m)	Samples & Testing: No	Type	Results	Mechanical Log: TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
										MADE GROUND: Grass over slightly sandy gravelly SILT. Sand is fine to coarse. Gravel is angular and sub-angular fine to coarse of clinker and slag.	0.20	
1.00-1.18	1	SPT(c)	17,8/38,12 for 11mm							MADE GROUND: Dark grey slightly silty sandy GRAVEL with low cobble content. Sand is fine to coarse. Gravel is angular and sub-angular fine to coarse of clicker and slag. Cobbles are angular of slag (<30mm x 65mm x 80mm).	(1.30) 1.50	
									1.2	MADE GROUND: Recovered as COBBLES. Cobbles are sub-angular of slag (<50mm x 75mm x 95mm).	(0.50) 2.00	
										MADE GROUND: Dark grey slightly silty sandy GRAVEL with medium cobble content. Sand is fine to coarse. Gravel is angular and sub-angular fine to coarse of clicker and slag. Cobbles are angular of slag (<40mm x 75mm x 80mm).	(1.60) 3.60	
4.00-5.00 4.00-4.15 4.00-4.00 4.00	2 2	SPT ES PID	1/,1 for 75mm 1xT+1xJ+1xV 1.8ppm	100						Soft to firm grey locally bluish grey with black speckling slightly peaty silty CLAY. With mild to strong hydrocarbon odour.	(1.40) 5.00	
										Soft dark brown fibrous PEAT. (From spts, no recovery)	(2.00) 7.00	
7.00-8.50 7.00-7.23 7.50-7.50 7.50	3 3	SPT ES PID	1/,1,2 for 75mm 1xT+1xJ+1xV 6.4ppm	47						ASSUMED ZONE OF CORE LOSS.	(0.80) 7.80	VOID
8.50-10.00 8.60-8.60 8.60	4	ES PID	1xT+1xJ+1xV 2.0ppm	93						Soft dark brown slightly silty fibrous to pseudo-fibrous PEAT with lenses of clay silt (<10mm x 40mm). With mild to strong hydrocarbon odour. . . . 8.50m to 8.60m; assumed zone of core loss.	(1.40)	

Boring Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

General Remarks

1. Position checked with Ground Penetrating Radar, CAT and Genny prior to excavation.
2. Inspection pit hand dug to 1.2m depth.
3. Down borehole checks for buried ferrous objects carried out during drilling by specialist unexploded ordnance (UXO) officer using magnetometer at regular intervals to 7m depth.
4. Groundwater strike encountered at 2.00m and 19.00m and rising to 2.00m

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Rotary Cored	**Beretta T41**	**G. Haddock**	**RHorne**	JCB

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RAW FIELD DATA

BOREHOLE LOG

Contract:	Client:	Borehole:
Project Cronus	**Tata Steel UK Ltd**	**BH04**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**13.10.21** End: **20.10.21**	**---**	**E:277547.3 N:185924.7**	**2** of **3**

Depth (m)	Samples & Testing: No	Type	Results	Mechanical Log: TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
											9.20	
10.00-11.50				93						Soft to firm blueish grey slightly peaty to peaty clayey SILT. With hydrocarbon odour. . . . 9.20m to 10.60m; peaty.	(1.80)	
10.00-10.15	4	SPT	1/,1,2,1/,1 for 75mm							. . . 10.00m to 10.35m; assumed zone of core loss.		
10.40-10.40	5	ES	1xT+1xJ+1xV									
10.40		PID	0.9ppm	77							11.00	
										Soft to firm grey slightly sandy SILT. Sand is fine.	(0.50)	
11.50-13.00											11.50	
11.90-11.90	6	ES	1xT+1xJ+1xV							Soft to firm blueish grey SILT. . . . 11.50m to 11.80m; assumed zone of core loss.	(1.30)	
11.90		PID	0.0ppm	80							12.80	
13.00-14.50										Soft to firm grey slightly peaty clayey SILT.	(1.20)	
13.00-13.38	5	SPT	N=4									
13.50-13.50	7	ES	1xT+1xJ+1xV									
13.50		PID	0.0ppm	100							14.00	
										Soft to firm dark grey slightly peaty slightly sandy SILT. Sand is fine.	(0.50)	
14.50-14.90											14.50	
14.50-14.50	8	ES	1xT+1xJ+1xV	100						Soft grey slightly gravelly sandy SILT. Sand is fine. Gravel is angular fine and medium of siltstone lithorelicts.	(0.50)	
14.50		PID	0.0ppm								15.00	
15.00-16.20										Medium dense greenish grey sandy silty fine to coarse angular to subrounded GRAVEL of mudstone and sandstone.	15.30	
15.00-15.45	6	SPT	N=35	90						Firm greenish grey slightly sandy gravelly CLAY. Sand is fine. Gravels are fine to coarse subangular to rounded mudstone and sandstone.	(0.90)	
											16.20	
16.20-17.50				50						Firm greenish grey slightly sandy SILT.	(2.30)	
17.50-18.50												
17.50-17.95	7	SPT	N=44	0								

Boring Progress and Water Observations

Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

General Remarks

after 20 minutes.

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Rotary Cored	**Beretta T41**	**G. Haddock**	**RHorne**	JCB

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RAW FIELD DATA

BOREHOLE LOG

Contract:	Client:	Borehole:
Project Cronus	**Tata Steel UK Ltd**	**BH04**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**13.10.21** End: **20.10.21**	**---**	**E:277547.3 N:185924.7**	**3** of **3**

Depth (m)	Samples & Testing: No	Type	Results	Mechanical Log: TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
				0						Firm greenish grey slightly sandy SILT. *(stratum copied from 16.20m from previous sheet)*	18.50	
18.50-20.00				0					2	Medium dense greenish grey sandy silty fine to coarse angular to subrounded GRAVEL of mudstone and sandstone.	(2.50)	
20.00-21.50				0							21.00	
21.00-21.45	8	SPT(c)	N=28							Firm greenish grey slightly sandy gravelly SILT.		
21.50-23.00				0								
23.00-24.50				0							(4.70)	
24.00-24.41	9	SPT	7,8/10,14,16,10 for 36mm								25.70	
										Possible weathered SILTSTONE. Recovered as gravelly SILT. Gravels are fine and medium angular of siltstone lithorelics.	(0.70)	
											26.40	
										Rotary borehole terminated at 26.40m due to SPT refusal on rockhead.		

Boring Progress and Water Observations

Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Rotary Cored	**Beretta T41**	**G. Haddock**	**RHorne**	JCB

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RAW FIELD DATA

BOREHOLE LOG

Contract:	Client:	Borehole:
Project Cronus	**Tata Steel UK Ltd**	**BH05**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**10.11.21** End: **26.01.22**	**---**	**E:277894.0 N:185891.0**	**1** of **3**

Depth (m)	Samples & Testing: No	Type	Results	Mechanical Log: TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
										MADE GROUND. Dark grey sandy GRAVEL. Sand is fine to coarse. Gravel is angular and subangular fine to coarse of sandstone and abundant slag.	(1.10) 1.10	
										MADE GROUND. Grey sandy GRAVEL with medium cobble content. Sand is fine to coarse. Gravel is angular fine to coarse of abundant slag. Cobbles are angular of slag (<50mm x 90mm x 200mm).	(3.40) 4.50	
3.45-3.90	1	SPT(c)	N=12									
										Soft grey slightly sandy silty CLAY.	(1.50) 6.00	
6.45-6.68	2	SPT(c)	1/1,1 for 75mm							Soft grey sandy SILT.	(3.00) 9.00	

Boring Progress and Water Observations

Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

General Remarks

1. Position checked with Ground Penetrating Radar, CAT and Genny prior to excavation.
2. Inspection pit hand dug to 1.2m depth.
3. Down borehole checks for buried ferrous objects carried out during drilling by specialist unexploded ordnance (UXO) officer using magnetometer at regular intervals to 7m depth.

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Rotary Cored	**Beretta T41**	**CJA**	**RHorne**	JCB

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RAW FIELD DATA

BOREHOLE LOG

Contract:	Client:	Borehole:
Project Cronus	**Tata Steel UK Ltd**	**BH05**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**10.11.21** End: **26.01.22**	**---**	**E:277894.0 N:185891.0**	**2** of **3**

Depth (m)	Samples & Testing: No	Type	Results	Mechanical Log: TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
										Soft to firm blueish grey slightly sandy peaty CLAY SILT.	(2.00) 11.00	
										Soft brown psuedo-fibrous clayey PEAT.	(0.50) 11.50	
										Soft to firm blueish grey slightly sandy clayey SILT.	(0.50) 12.00	
										Grey sandy clayey GRAVEL. Sand is fine to coarse. Gravel is angular to subrounded fine to coarse of sandstone and siltstone.	(1.00) 13.00	
										Grey slightly clayey sandy GRAVEL with low cobble content. Sand is fine to coarse. Gravel is angular to subrounded fine to coarse of sandstone and siltstone. Cobbles are subrounded of siltstone (<20mm x 70mm x 180mm).	(3.00) 16.00	
										Grey sandy clayey GRAVEL with low cobble content. Sand is fine to coarse. Gravel is angular to subrounded fine to coarse of sandstone and siltstone. Cobbles are subrounded of siltstone (<30mm x 90mm x 160mm).	(4.00)	

Boring Progress and Water Observations

Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Rotary Cored	**Beretta T41**	**CJA**	**RHorne**	JCB

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RAW FIELD DATA

BOREHOLE LOG

Contract:	Client:	Borehole:
Project Cronus	**Tata Steel UK Ltd**	**BH05**

Contract Ref:	Start: **10.11.21**	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	End: **26.01.22**	**---**	**E:277894.0 N:185891.0**	**3** of **3**

Depth (m)	Samples & Testing: No	Type	Results	Mechanical Log: TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
										Grey sandy clayey GRAVEL with low cobble content. Sand is fine to coarse. Gravel is angular to subrounded fine to coarse of sandstone and siltstone. Cobbles are subrounded of siltstone (<30mm x 90mm x 160mm). *(stratum copied from 16.00m from previous sheet)*		
										Rockhead not encountered. Rotary and Cable Percussion borehole terminated at 20.00m.	20.00	

Boring Progress and Water Observations

Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Rotary Cored	**Beretta T41**	**CJA**	**RHorne**	JCB

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RAW FIELD DATA

BOREHOLE LOG

Contract:	Client:	Borehole:
Project Cronus	**Tata Steel UK Ltd**	**BH08**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**13.01.22** End: **18.01.22**	**---**	**E:278238.0 N:185582.0**	**1** of **3**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
						MADE GROUND. Dark greyish brown slighty silty sandy GRAVEL. Sand is fine to coarse. Gravel is angular to subrounded fine to coarse of sandstone and abundant slag and brick.	(1.50)	
1.00-1.50	1	B						
1.00-1.00	28	ES						
1.00		PID	0.1ppm					
1.50-1.95	2	SPT	N=8				1.50	
						MADE GROUND (Reworked clay). Soft dark grey mottled orangeish brown slightly sandy silty CLAY. Sand is fine.	(0.80)	
							2.30	
						Soft light greyish brown slighty sandy clayey SILT. Sand is fine.		
2.50-3.00	3	B						
2.70-2.70	29	ES						
2.70		PID	0.0ppm					
3.00-3.15	4	SPT	1/,1 for 75mm		1.1		(1.70)	
							4.00	
4.00-4.50	5	B				Soft grey silty CLAY with occasional shell fragments (<3mm x 10mm).		
4.50-4.95	6	SPT	N=4					
							(2.20)	
5.50-6.00	7	B						
6.00-6.45	8	SPT	N=6				6.20	
						Soft grey peaty silty CLAY. Peat is fibrous.	(0.80)	
							7.00	
7.00-7.50	9	B				Dark brown slightly clayey fibrous PEAT.	(0.50)	
7.00-7.45	10	SPT	N=7				7.50	
						Soft grey to dark grey slightly sandy peaty silty CLAY. Peat is fibrous.		
8.50-9.00	11	B					(2.70)	

Boring Progress and Water Observations

Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress

From	To	Duration (hh:mm)

General Remarks

1. Position checked with Ground Penetrating Radar, CAT and Genny prior to excavation.
2. Inspection pit hand dug to 1.2m depth.
3. Down borehole checks for buried ferrous objects carried out during drilling by specialist unexploded ordnance (UXO) officer using magnetometer at regular intervals to 7m depth.

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Cable Percussion	**Dando 3000**	**Phil Chappel**	**CLewis**	JCB

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RAW FIELD DATA

BOREHOLE LOG

Contract:	Client:	Borehole:
Project Cronus	**Tata Steel UK Ltd**	**BH08**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**13.01.22** End: **18.01.22**	**---**	**E:278238.0 N:185582.0**	**2** of **3**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
9.00-9.38	12	SPT	1,1/,1,1,1 for 75mm			Soft grey to dark grey slightly sandy peaty silty CLAY. Peat is fibrous. *(stratum copied from 7.50m from previous sheet)*	10.20	
10.20-10.60	13	B				Firm grey slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is subrounded fine and medium of sandstone.	(0.70)	
10.60-10.83	14	SPT	5,10/25 for 75mm				10.90	
11.50-12.00	15	B				Grey sandy clayey GRAVEL. Sand is fine to coarse. Gravel is subangular and subrounded fine to coarse of sandstone and siltstone.	(2.10)	
12.00-12.45	16	SPT	N=28				13.00	
13.00-13.50	17	B				Grey slightly clayey sandy GRAVEL. Sand is fine to coarse. Gravel is subangular and subrounded fine to coarse of sandstone and siltstone.	(1.10)	
13.50-13.95	18	SPT	N=36				14.10	
14.10-14.80	19	B				Grey slightly sandy gravelly CLAY. Sand is fine to coarse. Gravel is subangular and subrounded fine to coarse of sandstone and siltstone.	(0.70)	
14.80-15.00	20	B					14.80	
15.00-15.45	21	SPT	N=29			Grey slightly clayey sandy GRAVEL with low cobble content. Sand is fine to coarse. Gravel is subangular and subrounded fine to coarse of sandstone and siltstone.	(1.20)	
16.00-16.60	22	B					16.00	
16.60-16.99	23	SPT	7,9/13,13,16,8 for 15mm			Grey slightly clayey sandy GRAVEL. Sand is fine to coarse. Gravel is subangular and subrounded fine to coarse of sandstone and siltstone.	(2.10)	
17.60-18.00	24	B						

Boring Progress and Water Observations

Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress

From	To	Duration (hh:mm)

General Remarks

4. Groundwater strike encountered at 3.30m rising to 3.00m after 20 minutes.
5. SPT hammer 110.70-2021 (E_r = 78.00%) used.

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Cable Percussion	**Dando 3000**	**Phil Chappel**	**CLewis**	JCB

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BOREHOLE LOG

Contract:	Client:	Borehole:
Project Cronus	**Tata Steel UK Ltd**	**BH08**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**13.01.22** End: **18.01.22**	**---**	**E:278238.0 N:185582.0**	**3** of **3**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
18.00-18.45	25	SPT	N=34			Grey weathered MUDSTONE. Recovered as sandy silty GRAVEL. Sand is fine to coarse. Gravel is angular fine to coarse of mudstone lithorelics.	18.10	
18.60-19.00	26	B					(1.00)	
19.00-19.10	27	SPT	NP			Cable Percussion borehole terminated at 19.10m depth.	19.10	

Boring Progress and Water Observations						Chiselling / Slow Progress			General Remarks
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)	

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Cable Percussion	**Dando 3000**	**Phil Chappel**	**CLewis**	JCB

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BOREHOLE LOG

Contract:	Client:	Borehole:
Project Cronus	**Tata Steel UK Ltd**	**BH10**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**10.01.22** End: **14.01.22**	**---**	**E:277936.7 N:185013.4**	**1** of **3**

Depth (m)	Samples & Testing: No	Type	Results	Mechanical Log: TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
										Grass followed by dark brown slightly sandy silty CLAY with many rootlets. (TOPSOIL)	0.40	
0.50	1	ES	1xT, 1xJ, 1xV							Soft to firm greenish grey clayey SILT.		
1.00-1.23	1	SPT	/1,1,1 for 75mm									
1.00	2	D										
1.50	3	ES	1xT, 1xJ, 1xV	Window run 65mm dia (95% rec)								
2.00-2.15	2	SPT	/1,1,1/1,1 for 75mm									
2.00	4	D									(4.20)	
2.60	5	D		Window run 65mm dia (90% rec)								
3.60	6	D										
4.00-4.30	3	SPT	/1,1,1/1,1,1/1,1,1 for 75mm									
4.60	7	D		Window run 65mm dia (95% rec)							4.60	
										Firm grey mottled brown very sandy gravelly SILT. Sand is fine to coarse. Gravel is fine to coarse subangular to rounded mixed lithologies.		
5.50-5.95	4	SPT	N=36	Window run 65mm dia (100% rec)							(2.20)	
6.90	8	D									6.80	
										Firm greyish brown slightly sandy clayey SILT		
7.00-7.45	5	SPT	N=26	Window run 65mm dia (50% rec)							(0.90)	
											7.70	
										Medium dense greyish brown silty fine to coarse SAND.		
											8.20	
8.50-8.95	6	SPT	N=25	Window run 65mm dia (95% rec)						Firm brownish grey sandy gravelly CLAY with medium cobble content. Gravel is fine to coarse. Gravels and cobbles are subangular to rounded sandstone and mudstone.		

Boring Progress and Water Observations

Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

General Remarks

1. Position checked with Ground Penetrating Radar, CAT and Genny prior to excavation.
2. Inspection pit hand dug to 1.2m depth.
3. Down borehole checks for buried ferrous objects carried out during drilling by specialist unexploded ordnance (UXO) officer using magnetometer at regular intervals to 7m depth.
4. Groundwater seepage encountered at 0.80m.

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Dynamic sampling + Rotary Cored	**Beretta T41**	**G.Haddock**	**CLewis**	JCB

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BOREHOLE LOG

Contract:	Client:	Borehole:
Project Cronus	**Tata Steel UK Ltd**	**BH10**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**10.01.22** End: **14.01.22**	**---**	**E:277936.7 N:185013.4**	**2** of **3**

Depth (m)	Samples & Testing: No	Type	Results	Mechanical Log: TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
9.00	9	D		Window run 65mm dia (95% rec)						Firm brownish grey sandy gravelly CLAY with medium cobble content. Gravel is fine to coarse. Gravels and cobbles are subangular to rounded sandstone and mudstone. *(stratum copied from 8.20m from previous sheet)*	(3.30)	
10.00-10.45	7	SPT	N=20									
10.50	10	D		Window run 65mm dia (95% rec)								
11.50											11.50	
11.50-11.85	8	SPT	17,8/17,10,12,11 for 21mm							Firm grey sandy clayey SILT.	11.90	
11.60	11	D		Window run 65mm dia (80% rec)						Firm grey sandy gravelly SILT. Gravels are fine to coarse subangular to rounded sandstone and mudstone.	(0.70)	
12.60										Medium dense greyish brown gravelly coarse SAND.	(0.50)	
12.80	12	D									13.10	
13.00-13.45	9	SPT	N=32	Window run 65mm dia (0% rec)						Firm grey sandy gravelly SILT. Gravels are fine to coarse subangular to rounded sandstone and mudstone.	(7.40)	
14.50-14.95	10	SPT	N=34	Window run 65mm dia (0% rec)								
16.00-16.45	11	SPT	N=43	Window run 65mm dia (0% rec)								
17.50-17.95	12	SPT	N=46	Window run 65mm dia (0% rec)								

Boring Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Dynamic sampling + Rotary Cored	**Beretta T41**	**G.Haddock**	**CLewis**	JCB

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BOREHOLE LOG

Contract:	Client:	Borehole:
Project Cronus	**Tata Steel UK Ltd**	**BH10**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**10.01.22** End: **14.01.22**	**---**	**E:277936.7 N:185013.4**	**3** of **3**

Depth (m)	Samples & Testing: No	Type	Results	Mechanical Log: TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
				Window run 65mm dia (0% rec)						Firm grey sandy gravelly SILT. Gravels are fine to coarse subangular to rounded sandstone and mudstone. *(stratum copied from 13.10m from previous sheet)*		
19.00-19.08	13	SPT	NP	Window run 65mm dia (0% rec)							20.50	
20.60-22.00				100	80	30				Weak moderate strong occasionally friable anthrocite COAL with occasinal pyrite.	(3.00)	
22.00-23.50 22.10	13	D		100	70	40					23.50	
										Rotary borehole terminated at 23.50m depth.		

Boring Progress and Water Observations

Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Dynamic sampling + Rotary Cored	**Beretta T41**	**G.Haddock**	**CLewis**	JCB

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BOREHOLE LOG

Contract:	Client:	Borehole:
Project Cronus	**Tata Steel UK Ltd**	**BH11**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**04.01.22** End: **09.01.22**	**---**	**E:277861.0 N:185422.0**	**1** of **3**

Depth (m)	Samples & Testing: No	Type	Results	Mechanical Log: TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
										Grass followed by dark brown slightly sandy silty CLAY with many rootlets. (TOPSOIL)	0.40	
0.50	1	ES	1xT, 1xJ, 1xV							Soft brown mottled grey silty CLAY.		
1.00-1.45	1	SPT	N=5									
1.20	2	ES	1xT, 1xJ, 1xV									
1.50	3	D		Window run 65mm dia (80% rec)							(3.30)	
2.50-2.73	2	SPT	1/1,1 for 75mm									
2.50	4	D		Window run 65mm dia (70% rec)								
3.80	5	ES	1xT, 1xJ, 1xV								3.70	
4.00-4.30	3	SPT	1/1,1,1/,1,2,2 for 75mm							Firm grey slightly clayey SILT.	(0.80)	
4.70	6	D		Window run 65mm dia (80% rec)							4.50	
										Spongy dark brown pseudofibrous PEAT with slight organic odour.	(0.70)	
5.50-5.88	4	SPT	1,1/1,1,1 for 75mm								5.20	
				Window run 65mm dia (90% rec)						Soft becoming firm grey clayey SILT. Frequent organic remains/fibres.	(0.50)	
											5.70	
										Firm grey slightly gravelly sandy SILT with occasional organic remains/fibres. Gravel is fine to coarse subangular to rounded sandstone and mudstone.	(1.30)	
7.00-7.15	5	SPT	1,1/1,1,1,1/,1 for 75mm								7.00	
7.50-8.00	7	B		Window run 65mm dia (100% rec)						Medium dense grey gravelly silty fine to coarse SAND. Gravels are fine to coarse angular to rounded sandstone and mudstone.		
8.50-8.95	6	SPT	N=20	Window run 65mm dia (95% rec)							(3.80)	

Boring Progress and Water Observations

Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

General Remarks

1. Position checked with Ground Penetrating Radar, CAT and Genny prior to excavation.
2. Inspection pit hand dug to 1.2m depth.
3. Down borehole checks for buried ferrous objects carried out during drilling by specialist unexploded ordnance (UXO) officer using magnetometer at regular intervals to 7m depth.
4. Groundwater strike encountered at 0.45m rising to 0.37m after 20 minutes and

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Dynamic sampling + Rotary Cored	**Beretta T41**	**G.Haddock**	**CLewis**	JCB

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BOREHOLE LOG

Contract:	Client:	Borehole:
Project Cronus	**Tata Steel UK Ltd**	**BH11**

Contract Ref:	Start: **04.01.22**	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	End: **09.01.22**	**---**	**E:277861.0 N:185422.0**	**2** of **3**

Depth (m)	Samples & Testing: No	Type	Results	Mechanical Log: TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
9.50	8	D		Window run 65mm dia (95% rec)						Medium dense grey gravelly silty fine to coarse SAND. Gravels are fine to coarse angular to rounded sandstone and mudstone. *(stratum copied from 7.00m from previous sheet)*	10.80	
10.00-10.45 10.00-10.80	7 9	SPT B	N=32	Window run 65mm dia (40% rec)						Soft to firm greyish brown sandy gravelly SILT. Gravels are fine to coarse subangular to rounded sandstone and mudstone.	(9.80)	
11.50-11.95	8	SPT	N=25	Window run 65mm dia (0% rec)								
13.00-13.33	9	SPT	5,9/15,20,15 for 32mm	Window run 65mm dia (0% rec)								
14.50-14.80	10	SPT	6,8/18,27,5 for 4mm	Window run 65mm dia (0% rec)								
16.00-16.12	11	SPT	8,17/50 for 22mm	Window run 65mm dia (0% rec)								
17.50-17.68	12	SPT	19,6/39,11 for 18mm	Window run 65mm dia (0% rec)								

Boring Progress and Water Observations

Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

General Remarks

again at 20.10m.
5. Inspection pit hand dug to 1.2m depth.
6. Down borehole checks for buried ferrous objects carried out during drilling by specialist unexploded ordnance (UXO) officer using magnetometer at regular intervals to 7.0m depth.

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Dynamic sampling + Rotary Cored	**Beretta T41**	**G.Haddock**	**CLewis**	JCB

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BOREHOLE LOG

Contract:	Client:	Borehole:
Project Cronus	**Tata Steel UK Ltd**	**BH11**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**04.01.22** End: **09.01.22**	**---**	**E:277861.0 N:185422.0**	**3** of **3**

Depth (m)	Samples & Testing: No	Type	Results	Mechanical Log: TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
				Window run 65mm dia (0% rec)						Soft to firm greyish brown sandy gravelly SILT. Gravels are fine to coarse subangular to rounded sandstone and mudstone. *(stratum copied from 10.80m from previous sheet)*		
19.00-19.11	13	SPT	NP	Window run 65mm dia (0% rec)								
											20.60	
20.60-22.00										Strong grey MUDSTONE.		
20.60-20.69	14	SPT	NP	95	80	0				Gravel band		
										Gravel band		
22.00-23.50				100	95	10				Gravel band	(2.90)	
											23.50	
										Rotary borehole terminated at 23.50m.		

Boring Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Dynamic sampling + Rotary Cored	**Beretta T41**	**G.Haddock**	**CLewis**	JCB

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RAW FIELD DATA

BOREHOLE LOG

Contract:	Client:	Borehole:
Project Cronus	**Tata Steel UK Ltd**	**BH12**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**13.12.21** End: **13.12.21**	**---**	**E:277590.0 N:185693.0**	**1** of **3**

Depth (m)	Samples & Testing: No	Type	Results	Mechanical Log: TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
										MADE GROUND. Moss over soft very dark brown slightly gravelly CLAY. Gravel is angular fine to coarse of slag.	0.05	
										MADE GROUND. Dark grey sandy GRAVEL with low cobble content. Sand is fine to coarse.Gravel is angular to subrounded fine to coarse of slag occasional brick. Cobbles are angular of slag (<40mm x 90mm x 120mm).	(1.95)	
											2.00	
										MADE GROUND. Dark grey slightly sandy gravelly CLAY. Sand is fine to coarse. Gravel is angular to subrounded fine to coarse of slag.	2.15	
2.70-2.70 2.70	1	ES PID	1xT+1xJ+1xV 0.5ppm							MADE GROUND. Dark grey slightly clayey sandy GRAVEL. Sand is fine to coarse. Gravel is angular to subrounded fine to coarse of slag.	(0.95)	
3.10-3.50	4	B									3.10	
										Soft to firm grey to blueish grey mottled orange silty CLAY. With occasional decaying rootless (<1mm x 8mm).		
3.70-3.70 3.70	2	ES PID	1xT+1xJ+1xV 0.1ppm									
3.80-3.80	3	D									(2.40)	
5.00-5.30	1	SPT	1/,1,1,2 for 75mm									
											5.50	
										Soft blueish grey CLAY.		
6.00-6.00	5	D									(1.00)	
											6.50	
										Soft to firm blueish grey peaty CLAY. . . . 6.55m to 6.70m; brown psuedo-fibrous peat.	6.95	
7.00-7.50	6	B								Dark brown slightly clayey psuedo-fibrous PEAT.	(0.95)	
										. . . 7.75m to 7.90m: clayey peat.	7.90	
										Soft blueish grey slightly peaty CLAY.		
8.50-8.80	2	SPT	1/,1,1,2,1/1,1,1 for 75mm									

Boring Progress and Water Observations

Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

General Remarks

1. Position checked with Ground Penetrating Radar, CAT and Genny prior to excavation.
2. Inspection pit hand dug to 1.2m depth.
3. Down borehole checks for buried ferrous objects carried out during drilling by specialist unexploded ordnance (UXO) officer using magnetometer at regular intervals to 7m depth.
4. Groundwater strike encountered at 10.00m and 16.80m.

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Rotary Cored	**Beretta T41**	**G. Haddock**	**RHorne**	JCB

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RAW FIELD DATA

BOREHOLE LOG

Contract:	Client:	Borehole:
Project Cronus	**Tata Steel UK Ltd**	**BH12**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**13.12.21** End: **13.12.21**	**---**	**E:277590.0 N:185693.0**	**2** of **3**

Depth (m)	Samples & Testing: No	Type	Results	Mechanical Log: TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
9.00-9.00	7	D								Soft blueish grey slightly peaty CLAY. *(stratum copied from 7.90m from previous sheet)*	(2.40)	
									1	. . . 9.70m to 10.00m; firm.		
10.00-10.15	3	SPT	1/,1 for 75mm								10.30	
10.50-10.50	8	D								Soft to firm blueish grey locally dark grey silty CLAY. With occasional decaying rootlets (1mm x 15mm) and rare shell fragments (<2mm x 6mm x 8mm).	(1.90)	
11.50-11.95	4	SPT	N=5							. . . 11.50m to 11.80m; soft clay.		
12.00-12.00	9	D									12.20	
										Soft blueish grey silty CLAY.		
13.00-13.23	5	SPT	1/,1/1,1,1 for 75mm								(1.90)	
											14.10	
14.10-14.50	10	B								Firm blueish grey peaty CLAY with frequent decaying plant material (2mm x 5mm x 20mm).	14.50	
14.50-14.79	6	SPT	11,14/18,25,7 for 9mm							Firm to stiff slightly sandy gravelly CLAY. Sand is fine to coarse. Gravel is subangular and subrounded fine and medium of sandstone and mudstone. With occasional light brown sand inclusions.		
14.50-14.80	11	B								. . . 14.80m to 22.00m; poor recovery, fines possibly washed out, recovered only as highly disturbed bulks.		
16.00-16.45	7	SPT	N=48						2		(3.00)	
											17.50	
17.50-17.81	8	SPT	5,13/21,22,7 for 11mm							*Description on next sheet*		

Boring Progress and Water Observations

Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Rotary Cored	**Beretta T41**	**G. Haddock**	**RHorne**	JCB

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RAW FIELD DATA

BOREHOLE LOG

Contract:	Client:	Borehole:
Project Cronus	**Tata Steel UK Ltd**	**BH12**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**13.12.21** End: **13.12.21**	**---**	**E:277590.0 N:185693.0**	**3** of **3**

Depth (m)	Samples & Testing: No	Type	Results	Mechanical Log: TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
19.00-19.45	9	SPT	N=49							Grey slightly sandy clayey GRAVEL. Sand is fine to coarse. Gravel is angular to subrounded fine and medium of sandstone and mudstone. *(stratum copied from 17.50m from previous sheet)*	(4.50)	
20.50-20.78	10	SPT	10,15/28,16,6 for 10mm								22.00	
22.00-22.10	11	SPT	NP							Possible weathered MUDSTONE. Recovered as soft grey slightly gravelly CLAY. Gravel is angular fine and medium of extremely weak mudstone lithorelics.	(2.00)	
											24.00	
										COAL.	(0.50)	
											24.50	
24.50-24.82	12	SPT	5,9/16,25,9 for 17mm							Extremely weak to very weak grey MUDSTONE.	(2.30)	
26.50-26.80	13	SPT	7,10/22,28 for 75mm								26.80	
										Rotary borehole terminated at 26.80m depth.		

Boring Progress and Water Observations

Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Rotary Cored	**Beretta T41**	**G. Haddock**	**RHorne**	JCB

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BOREHOLE LOG

Contract:	Client:	Borehole:
Project Cronus	**Tata Steel UK Ltd**	**BH13**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**10.01.22** End: **13.01.22**	**---**	**E:278445.0 N:185460.0**	**1** of **2**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
						Grass followed by dark grey GRAVEL and COBBLES of slag and ballast. (TOPSOIL)	(1.00)	
1.00-1.45	1	SPT	N=22			Very soft grey slightly gravelly clayey SILT. Occasional slag and ballast.	1.00 (0.50)	
1.50	2	D				Very soft to soft greenish grey clayey SILT.	1.50	
2.50	3	B					(2.50)	
3.00-3.15	4	SPT	1/,1 for 75mm		1			
4.00	5	B				Soft to firm grey clayey SILT.	4.00 (0.60)	
4.50-4.95	6	SPT	N=7				4.60	
						Spongy pseudofibrous dark brown PEAT.	(0.90)	
5.50	7	B			2		5.50	
5.50-5.95	8	SPT	N=5			Soft grey clayey SILT with occasional organic remains/fibres.	(0.50)	
					3		6.00	
						Very soft grey clayey SILT.		
7.00	9	B						
7.50-7.58	10	SPT	NP				(3.70)	
8.50	11	B						

Boring Progress and Water Observations

Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress

From	To	Duration (hh:mm)

General Remarks

1. Position checked with Ground Penetrating Radar, CAT and Genny prior to excavation.
2. Inspection pit hand dug to 1.2m depth.
3. Down borehole checks for buried ferrous objects carried out during drilling by specialist unexploded ordnance (UXO) officer using magnetometer at regular intervals to 7m depth.

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Cable Percussion	**Unknown**	**Phil Chappel**	**CLewis**	JCB

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BOREHOLE LOG

Contract:	Client:	Borehole:
Project Cronus	**Tata Steel UK Ltd**	**BH13**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**10.01.22** End: **13.01.22**	**---**	**E:278445.0 N:185460.0**	**2** of **2**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
9.00-9.23	12	SPT	1/1,1 for 75mm			Very soft grey clayey SILT. *(stratum copied from 6.00m from previous sheet)*	9.70	
10.00	13	B				Dense to very dense brown sandy silty fine to coarse subangular to well rounded GRAVEL of mudstone and sandstone.	(1.80)	
10.50-10.90	14	SPT	3,10/14,14,14,8 for 20mm				11.50	
11.00	15	B						
11.50	16	B				Soft to firm gravelly silty CLAY with medium cobble content. occasional thin silt bands. Gravels are fine to coarse. Gravels and cobbles are subangular to rounded mudstone and sandstone.	(1.50)	
12.00-12.45	17	SPT	N=9				13.00	
13.00	18	B				Dense brown sandy silty fine to coarse subangular to rounded GRAVEL of mudstone and sandstone with medium cobble content.	(2.90)	
13.70-14.15	19	SPT	N=31					
14.50	20	B						
15.10-15.55	21	SPT	N=29					
15.60	22	B						
15.90	23	B				Weak becoming strong thinly laminated weathered MUDSTONE.	(1.00)	
16.60-16.85	24	SPT	3,5/15,35 for 20mm				16.90	
						Cable Percussion borehole terminated at 16.90m due to sampler and SPT refusal.		

Boring Progress and Water Observations

Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress

From	To	Duration (hh:mm)

General Remarks

4. Groundwater strike encountered at 3.50m rising to 3.20m after 20 minutes and again at 6.50m rising to 5.70m after 20 minutes.

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Cable Percussion	**Unknown**	**Phil Chappel**	**CLewis**	JCB

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SONIC DRILLING LOG

Contract:	Client:	Borehole:
Project Cronus	**Tata Steel UK Ltd**	**BH201**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**06.04.22** End: **06.04.22**	**6.02**	**E:277419.7 N:185839.6**	**1** of **2**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
						MADE GROUND. Grass over black slightly gravelly SAND. Sand is fine. Gravel is angular and subangular fine and medium of abundant slag.	0.15	
						MADE GROUND. Dark grey slightly sandy GRAVEL. Sand is fine to coarse. Gravel is angular and subangular fine to coarse of slag and brick. With slight hydrocarbon odour.	(1.25)	
							1.40	
1.60 1.60	1	ES PID	1xT+1xJ+1xV 4.0ppm			MADE GROUND. Brown locally grey slightly gravelly silty SAND with low cobble content. Sand is fine. Gravel is subangular fine and medium of sandstone and slag. With moderate hydrocarbon odour and visual evidence of olfactory contamination.	(3.60)	
3.90 3.90	2	ES PID	1xT+1xJ+1xV 17.0ppm				5.00	
5.50 5.50	3	ES PID	1xT+1xJ+1xV 3.0ppm			Soft grey CLAY. With slight hydrocarbon odour.	(1.00)	
							6.00	
6.50 6.50	4	ES PID	1xT+1xJ+1xV 1.7ppm			Soft brown psuedo-fibrous PEAT.	(3.00)	
							9.00	

Boring Progress and Water Observations

Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

General Remarks

1. Position checked with Ground Penetrating Radar, CAT and Genny prior to excavation.
2. Checks for buried ferrous objects carried out during excavation by specialist unexploded ordnance (UXO) officer using magnetometer.
3. Inspection pit hand dug to 1.20mm depth.

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Sonic drilling	**Sonic Drilling Rig**	**Ervin Demha**	**RHorne**	JCB

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RAW FIELD DATA

SONIC DRILLING LOG

Contract:	Client:	Borehole:
Project Cronus	**Tata Steel UK Ltd**	**BH201**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**06.04.22** End: **06.04.22**	**6.02**	**E:277419.7 N:185839.6**	**2** of **2**

Depth (m)	Samples & Testing No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
						Soft grey CLAY.	(0.80) 9.80	
						Soft grey silty CLAY with occasional decaying rootlets. . . . 9.80m to 10.20m; slightly sandy.	(0.70) 10.50	
						Soft to firm grey locally dark grey CLAY with occasional decaying rootless (<2mm x 20mm).	(5.00)	
14.90 14.90	5	ES PID	1xT+1xJ+1xV 0.0ppm					
						Sonic Borehole terminated at 15.50m.	15.50	

Boring Progress and Water Observations

Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Sonic drilling	**Sonic Drilling Rig**	**Ervin Demha**	**RHorne**	JCB

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RAW FIELD DATA

SONIC DRILLING LOG

Contract:	Client:	Borehole:
Project Cronus	**Tata Steel UK Ltd**	**BH202**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**11.04.22** End: **11.04.22**	**6.67**	**E:277390.7 N:185985.2**	**1** of **2**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
						MADE GROUND. Dark grey sandy GRAVEL. Sand is fine to coarse. Gravel is angular fine to coarse of abundant slag and brick. With frequent metal fragments and rebar. (Possible redig on TP210).	(2.50)	
							2.50	
						COBBLES. Cobbles are angular and subangular of concrete.	(0.50)	
							3.00	
						REINFORCED CONCRETE.	(2.00)	
							5.00	
						Soft blueish grey slighty peaty CLAY. With very strong hydrocarbon odour and slight sheen.	(2.20)	
6.00 6.00	1	ES PID	1xT+1xJ+1xV 250.0ppm					
							7.20	
						Soft brown fibrous PEAT. With very strong hydrocarbon odour.	(1.80)	
7.50 7.50	2	ES PID	1xT+1xJ+1xV 300.0ppm					
							9.00	

Boring Progress and Water Observations

Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

General Remarks

1. Position checked with Ground Penetrating Radar, CAT and Genny prior to excavation.
2. Checks for buried ferrous objects carried out during excavation by specialist unexploded ordnance (UXO) officer using magnetometer.
3. Inspection pit hand dug to 1.20m depth.
4. Suspected heavy contamination in groundwater within sand layer down to 15.20m.

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Sonic drilling	**Sonic Drilling Rig**	**Ervin Demha**	**RHorne**	JCB

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RAW FIELD DATA

SONIC DRILLING LOG

Contract:	Client:	Borehole:
Project Cronus	**Tata Steel UK Ltd**	**BH202**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**11.04.22** End: **11.04.22**	**6.67**	**E:277390.7 N:185985.2**	**2** of **2**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
9.00 9.00	3	ES PID	1xT+1xJ+1xV 700.0ppm			Soft blueish grey slightly peaty CLAY. With very strong hydrocarbon odour.	(1.20) 10.20	
10.50 10.50	4	ES PID	1xT+1xJ+1xV 250.0ppm			Soft blueish grey slightly sandy clayey SILT. Sand is fine. With very strong hydrocarbon odour and visual signs of olfactory contamination.	(1.80) 12.00	
12.00 12.00	5	ES PID	1xT+1xJ+1xV 1200.0ppm			Grey silty locally clayey SAND. With very strong hydrocarbon odour and visual signs of olfactory contamination. . . . 12.00m to 12.50m; extremely heavy olfactory contamination and hydrocarbon smell. PID 1200ppm. Decreasing with depth.	(3.20)	
13.50 13.50	6	ES PID	1xT+1xJ+1xV 400.0ppm			. . . 14.7m to 14.80m; brown staining of heavy olfactory contamination.	15.20	
15.00 15.00	7	ES PID	1xT+1xJ+1xV 430.0ppm			Firm grey silty CLAY. No evidence of olfactory contamination.	(1.30)	
16.00 16.00	8	ES PID	1xT+1xJ+1xV 0.5ppm				16.50	
						Sonic Borehole terminated at 16.50m.		

Boring Progress and Water Observations

Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Sonic drilling	**Sonic Drilling Rig**	**Ervin Demha**	**RHorne**	JCB

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RAW FIELD DATA

SONIC DRILLING LOG

Contract:	Client:	Borehole:
Project Cronus	**Tata Steel UK Ltd**	**BH203**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**13.04.22** End: **13.04.22**	**6.62**	**E:277466.1 N:186099.3**	**1** of **2**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
						MADE GROUND. Dark grey sandy GRAVEL with low cobble content. Sand is fine to coarse. Gravel is angular and subangular fine to coarse of sandstone with abundant slag and brick. Cobbles are angular of concrete, brick and slag (<40mm x 100mm x 100mm). With various anthropogenic material such as plastic bags, plastic fragments, metals fragments and rebar. With slight hydrocarbon odour.	(0.50) 0.50	
						MADE GROUND. Possible CONCRETE.	(1.00) 1.50	
						MADE GROUND. Light grey slight clayey slightly gravelly SAND. Sand is fine and medium. Gravel is angular fine and medium of slag and brick.	1.90	
2.00 2.00	1	ES PID	1xT+1xJ+1xV 3.2ppm			MADE GROUND. Grey to dark grey SAND. With hydrocarbon odour and black staining of olfactory contamination.	(1.10) 3.00	
3.00 3.00	2	ES PID	1xT+1xJ+1xV 0.6ppm			MADE GROUND. Dark grey gravelly clayey SAND. Sand is fine and medium. Gravel is angular to subrounded fine to coarse of quartzite,sandstone and occasional slag. Slight hydrocarbon odour.	(0.60) 3.60	
						Soft dark grey slighty sandy clayey SILT. Sand is fine. With occasional decaying rootless (1mm x 8mm).	(0.50) 4.10	
4.00 4.00	3	ES PID	1xT+1xJ+1xV 0.5ppm			Soft dark grey silty CLAY.	(0.70) 4.80	
						Firm light grey CLAY locally sandy. Sand is fine. With occasional decaying rootless (<1mm x 15mm). . . . 5.20m to 5.50m; clayey sand band.	(3.10) 7.90	
6.00 6.00	4	ES PID	1xT+1xJ+1xV 0.2ppm			Soft dark brown psuedo-fibrous PEAT.	(1.00) 8.90	

Boring Progress and Water Observations

Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

General Remarks

1. Position checked with Ground Penetrating Radar, CAT and Genny prior to excavation.
2. Checks for buried ferrous objects carried out during excavation by specialist unexploded ordnance (UXO) officer using magnetometer.
3. Inspection pit hand dug to 1.20m depth.

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Sonic drilling	**Sonic Drilling Rig**	**Ervin Demha**	**RHorne**	JCB

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RAW FIELD DATA

SONIC DRILLING LOG

Contract:	Client:	Borehole:
Project Cronus	**Tata Steel UK Ltd**	**BH203**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**13.04.22** End: **13.04.22**	**6.62**	**E:277466.1 N:186099.3**	**2** of **2**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
9.00	5	ES	1xT+1xJ+1xV			Soft brown clayey psuedo-fibrous PEAT. *(stratum copied from 8.90m from previous sheet)*	(0.80) 9.70	
						Soft blueish grey slightly peaty silty CLAY.	(4.40)	
						. . . 12.60m to 12.75m; clayey peat.	14.10	
						Soft grey sandy SILT.	(0.70) 14.80	
						Soft grey silty CLAY.	15.00	
						Sonic borehole terminated at 15.00m.		

Boring Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Sonic drilling	**Sonic Drilling Rig**	**Ervin Demha**	**RHorne**	JCB

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RAW FIELD DATA

SONIC DRILLING LOG

Contract:	Client:	Borehole:
Project Cronus	**Tata Steel UK Ltd**	**BH204**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**20.04.22** End: **20.04.22**	**7.07**	**E:277377.0 N:186087.2**	**1** of **2**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
						MADE GROUND. Brown slightly silty sandy GRAVEL with medium cobble content. Sand is fine to coarse. Gravel is angular and subangular fine to coarse of abundant slag, brick and concrete. Cobbles are angular of brick and concrete (<150mm x 160mm x 180mm).	(0.70) 0.70	
						MADE GROUND. Grey sandy GRAVEL with high cobble content. Sand is fine to coarse. Gravel is angular to subrounded fine to coarse of abundant slag, brick and concrete. Cobbles are angular and subangular of concrete (<100mm x 150mm x 180mm).	(0.70) 1.40	
1.40 1.40	1	ES PID	1xT+1xJ+1xV 103.0ppm			MADE GROUND. Dark grey gravelly silty SAND with high cobble content. Sand is fine to coarse. Gravel is angular and subangular fine to coarse of abundant slag. Cobbles are angular and subangular of concrete (<100mm x 110mm x 130mm). With strong hydrocarbon odour.	(3.10) 4.50	
4.60 4.60	2	ES PID	1xT+1xJ+1xV 1.8ppm			Soft to firm blueish grey CLAY. With occasional decaying rootlets (<2mm x 20mm). With slight hydrocarbon odour.	(2.70) 7.20	
7.30 7.30	3	ES PID	1xT+1xJ+1xV 0.5ppm			Firm brown psuedo-fibrous PEAT.	(1.80) 9.00	

Boring Progress and Water Observations

Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

General Remarks

1. Position checked with Ground Penetrating Radar, CAT and Genny prior to excavation.
2. Checks for buried ferrous objects carried out during excavation by specialist unexploded ordnance (UXO) officer using magnetometer.
3. Inspection pit hand dug to 1.20m depth.

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Sonic drilling	**Sonic Drilling Rig**	**Ervin Demha**	**RHorne**	JCB

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RAW FIELD DATA

SONIC DRILLING LOG

Contract:	Client:	Borehole:
Project Cronus	**Tata Steel UK Ltd**	**BH204**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**20.04.22** End: **20.04.22**	**7.07**	**E:277377.0 N:186087.2**	**2** of **2**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
9.10 9.10	4	ES PID	1xT+1xJ+1xV 0.7ppm			Soft to firm grey peaty silty CLAY.	(0.50) 9.50	
						Soft grey slightly sandy clayey SILT. Sand is fine.	(0.60) 10.10	
						Soft grey locally clayey sandy SILT. Sand is fine. . . . 10.50m to 11.75m; clayey silt. . . . 11.80m to 12.00m; clayey silt.	(2.70) 12.80	
						Grey silty SAND. Sand is fine.	(1.00) 13.80	
						Grey slightly silty SAND. Sand is fine.	(1.20) 15.00	
						Sonic borehole terminated at 15.00m.		

Boring Progress and Water Observations

Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Sonic drilling	**Sonic Drilling Rig**	**Ervin Demha**	**RHorne**	JCB

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RAW FIELD DATA

SONIC DRILLING LOG

Contract:	Client:	Borehole:
Project Cronus	**Tata Steel UK Ltd**	**BH205**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**19.04.22** End: **19.04.22**	**7.47**	**E:277465.9 N:186292.0**	**1** of **2**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
						MADE GROUND. Orangeish brown sandy GRAVEL with low cobble content. Sand is fine to coarse. Gravel is angular and subangular fine to coarse of abundant slag and brick. With frequent metal fragments (<20mm x 50mm x 90mm).	(0.50) 0.50	
						MADE GROUND. Grey sandy GRAVEL. Sand is fine to coarse. Gravel is angular and subangular fine to coarse of mustone, quartzite and abundant slag and brick.	(4.50) 5.00	
6.00 6.00	1	ES PID	1xT+1xJ+1xV 2.7ppm			MADE GROUND. Brown to dark grey SAND. Sand is fine to coarse. . . . 5.80m to 6.50m; dark grey, possible olfactory contamination.	(1.50) 6.50	
7.00 7.00	2	ES PID	1xT+1xJ+1xV 0.8ppm			Soft grey clayey SILT.	(0.90) 7.40	
						Soft grey sandy SILT. Sand is fine.	(1.50) 8.90	

Boring Progress and Water Observations

Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

General Remarks

1. Position checked with Ground Penetrating Radar, CAT and Genny prior to excavation.
2. Checks for buried ferrous objects carried out during excavation by specialist unexploded ordnance (UXO) officer using magnetometer.
3. Inspection pit hand dug to 1.2m depth.

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Sonic drilling	**Sonic Drilling Rig**	**Ervin Demha**	**RHorne**	JCB

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RAW FIELD DATA

SONIC DRILLING LOG

Contract:	Client:	Borehole:
Project Cronus	**Tata Steel UK Ltd**	**BH205**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**19.04.22** End: **19.04.22**	**7.47**	**E:277465.9 N:186292.0**	**2** of **2**

Depth (m)	Samples & Testing No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
						Firm grey CLAY. With occasional shell fragments (<3mm x 5mm) *(stratum copied from 8.90m from previous sheet)*	(0.90) 9.80	
10.00 10.00	3	ES PID	1xT+1xJ+1xV 0.3ppm			Firm brown psuedo-fibrous PEAT.	(1.20) 11.00	
						Soft to firm grey clayey SILT.	(0.50) 11.50	
						Soft grey slightly sandy to sandy clayey SILT. With frequent decaying rootlets (<2mm x 20mm).	(1.90) 13.40	
						Soft grey slight peaty silty CLAY.	(1.60) 15.00	
						Sonic borehole terminated at 15.00m.		

Boring Progress and Water Observations

Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Sonic drilling	**Sonic Drilling Rig**	**Ervin Demha**	**RHorne**	JCJ

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RAW FIELD DATA

SONIC DRILLING LOG

Contract:	Client:	Borehole:
Project Cronus	**Tata Steel UK Ltd**	**BH206**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**12.04.22** End: **12.04.22**	**7.14**	**E:277625.5 N:186190.9**	**1** of **2**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
						MADE GROUND. Dark grey slightly silty sandy GRAVEL. Sand is fine to coarse. Gravel is angular and subangular fine to coarse of abundant slag.	0.20	
						MADE GROUND. Dark grey slighty clayey sandy GRAVEL. Sand is fine to coarse. Gravel is angular fine to coarse of abundant slag and occasional brick.	(2.05)	
1.90 1.90	1	ES PID	1xT+1xJ+1xV 0.7ppm			. . . 1.90m to 2.25m; light grey.	2.25	
						MADE GROUND. Dark grey sandy GRAVEL. Sand is fine to coarse. Gravel is angular fine to coarse of abundant slag and occasional brick.	(0.95)	
							3.20	
						MADE GROUND. Dark grey sandy clayey GRAVEL. Sand is fine to coarse. Gravel is angular fine to coarse of abundant slag and occasional brick.	(1.20)	
							4.40	
						MADE GROUND. Grey sandy GRAVEL. Sand is fine to coarse. Gravel is angular fine to coarse of abundant slag.	(0.60)	
							5.00	
5.00 5.00	2	ES PID	1xT+1xJ+1xV 1.1ppm			MADE GROUND. Very stiff dark grey slightly sandy gravelly CLAY. Sand is fine to coarse. Gravel is angular and subangular fine to coarse of mudstone and occasional slag.	(0.90)	
							5.90	
						Soft grey locally blueish grey CLAY.	(1.30)	
6.20 6.20	3	ES PID	1xT+1xJ+1xV 0.1ppm				7.20	
						Soft light brownish grey clayey SILT. With occasional shell fragments (2mm x 10mm x 12mm).	(1.50)	
							8.70	
						Description on next sheet		

Boring Progress and Water Observations

Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

General Remarks

1. Position checked with Ground Penetrating Radar, CAT and Genny prior to excavation.
2. Checks for buried ferrous objects carried out during excavation by specialist unexploded ordnance (UXO) officer using magnetometer.
3. Inspection pit hand dug to 1.20m depth.

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Sonic drilling	**Sonic Drilling Rig**	**Grant Goodwin**	**RHorne**	JCB

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SONIC DRILLING LOG

Contract:	Client:	Borehole:
Project Cronus	**Tata Steel UK Ltd**	**BH206**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**12.04.22** End: **12.04.22**	**7.14**	**E:277625.5 N:186190.9**	**2** of **2**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
						Grey to blueish grey slightly silty to silty SAND. With occasional shell fragments (<2mm x 8mm x 10mm). . . . 8.70m to 9.00m; green slighty silty glauconitic sand.*(stratum copied from* 8.70m from previous sheet) . . . 9.30m to 9.70m; silty . . . 10.50m to 10.80m; silty. . . . 10.50m to 11.00m; peaty.	(2.30) 11.00	
						Soft dark brown slightly clayey psuedo-fibrous PEAT.	(0.90) 11.90	
						Soft grey peaty CLAY.	(0.60) 12.50	
						Soft to firm brownish grey slightly sandy slightly gravelly to gravelly CLAY with low cobble content. Sand is fine to coarse. Gravel is angular to subrounded fine to coarse of quartzite and sandstone. Cobbles are subrounded of quartzite (<60mm x 80mm x 100mm). . . . 12.50m to 12.90m; slightly gravelly.	(1.10) 13.60	
						Brownish grey sandy clayey GRAVEL with low cobble content. Sand is fine to coarse. Gravel is angular to subrounded fine to coarse of sandstone and mudstone. Cobbles are angular of mudstone (<40mm x 70mm x 100mm).	(1.40) 15.00	
						Sonic borehole terminated at 15.00m.		

Boring Progress and Water Observations

Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Sonic drilling	**Sonic Drilling Rig**	**Grant Goodwin**	**RHorne**	JCB

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RAW FIELD DATA

SONIC DRILLING LOG

Contract:	Client:	Borehole:
Project Cronus	**Tata Steel UK Ltd**	**BH207**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**20.04.22** End: **20.04.22**	**7.00**	**E:277644.3 N:185938.1**	**1** of **2**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
						MADE GROUND. Tarmacadam.	0.10	
						MADE GROUND. Grey slightly sandy GRAVEL with high cobble content. Sand is fine to coarse. Gravel is angular and subangular fine to coarse of abundant slag and concrete. Cobbles are angular and subangular of slag and concrete (<65mm x 120mm x 180mm).	(2.90)	
3.10	1	ES	1xT+1xJ+1xV			MADE GROUND. Brown slightly gravelly SAND. Gravel is subangular and subrounded fine and medium of quartzite. . . . 3.00m to 3.20m; slightly gravelly.	3.00 (2.90)	
6.00	2	ES	1xT+1xJ+1xV			Soft blueish grey locally slightly sandy clayey SILT. Sand is fine. . . . 6.00m to 6.20m; slightly sandy.	5.90 (0.60)	
						Firm blueish grey locally peaty silty CLAY. With occasional decaying rootlets (<2mm x 15mm). . . . 7.50m to 7.80m; peaty.	6.50 (1.30)	
8.00	3	ES	1xT+1xJ+1xV			Firm brown psuedo-fibrous PEAT.	7.80 (1.30)	

Boring Progress and Water Observations

Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

General Remarks

1. Position checked with Ground Penetrating Radar, CAT and Genny prior to excavation.
2. Checks for buried ferrous objects carried out during excavation by specialist unexploded ordnance (UXO) officer using magnetometer.
3. Inspection pit hand dug to AAAm depth.

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Sonic drilling	**Sonic Drilling Rig**	**Grant Goodwin**	**RHorne**	JCB

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RAW FIELD DATA

SONIC DRILLING LOG

Contract:	Client:	Borehole:
Project Cronus	**Tata Steel UK Ltd**	**BH207**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**20.04.22** End: **20.04.22**	**7.00**	**E:277644.3 N:185938.1**	**2** of **2**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
						Firm grey peaty CLAY.	9.10 (2.40) 11.50	
						Firm grey slightly sandy slightly gravelly silty CLAY. Sand is fine to coarse. Gravel is subangular and subrounded fine and medium of mudstone and siltstone.	(1.40) 12.90	
						Grey locally brown sandy clayey GRAVEL. Sand is fine to coarse. Gravel is subangular and subrounded fine to coarse of mudstone and siltstone.	(1.10) 14.00	
						Soft grey locally brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse, predominantly fine and medium. Gravel is subangular and subrounded fine and medium of mudstone.	(0.50) 14.50	
						Grey slightly sandy clayey GRAVEL. Sand is fine to coarse. Gravel is subangular and subrounded fine to coarse of mudstone, siltstone and occasional coal.	(0.50) 15.00	
						Sonic borehole terminated at 15.00m.		

Boring Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Sonic drilling	**Sonic Drilling Rig**	**Grant Goodwin**	**RHorne**	JCB

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RAW FIELD DATA

SONIC DRILLING LOG

Contract:	Client:	Borehole:
Project Cronus	**Tata Steel UK Ltd**	**BH208**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**06.04.22** End: **06.04.22**	**6.18**	**E:277559.7 N:185748.9**	**1** of **2**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instru-mentation	Water	Description of Strata	Depth (Thick ness)	Material Graphic Legend
						MADE GROUND. MADE GROUND. Grass over black gravelly SAND. Sand is fine. Gravel is angular and subangular fine and medium of abundant slag and concrete.	0.10	
						MADE GROUND. Dark grey sandy GRAVEL. Sand is fine. Gravel is angular and subangular fine and medium of slag, brick and concrete.	(0.70)	
							0.80	
1.00 1.00	1	ES PID	0.1ppm			MADE GROUND. Firm dark grey mottled orange slightly sandy gravelly CLAY. Sand is fine to coarse. Gravel is angular fine to coarse of sandstone and abundant slag. With hydrocarbon odour.	(0.70)	
							1.50	
						MADE GROUND. Dark grey sandy clayey GRAVEL. Sand is fine and medium. Gravel is angular and subangular fine and medium of slag.	(2.60)	
3.20 3.20	2	ES PID	1xT+1xJ+1xV 0.1ppm					
							4.10	
						Firm to stiff grey CLAY with occasional decaying rootless (<2mm x 20mm).	4.50	
4.40 4.40	3	ES PID	1xT+1xJ+1xV 0.0ppm			Soft grey slightly sandy silty CLAY. Sand is fine.	(1.70)	
							6.20	
						Soft brown psuedo-fibrous PEAT.	(0.60)	
							6.80	
						Soft brownish grey clayey PEAT	7.20	
						Soft grey peaty CLAY.	(1.30)	
							8.50	
						Soft to firm grey slightly peaty CLAY.		

Boring Progress and Water Observations

Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

General Remarks

1. Position checked with Ground Penetrating Radar, CAT and Genny prior to excavation.
2. Checks for buried ferrous objects carried out during excavation by specialist unexploded ordnance (UXO) officer using magnetometer.
3. Inspection pit hand dug to 1.20mm depth.

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Sonic drilling	**Sonic Drilling Rig**	**Grant Goodwin**	**RHorne**	JCB

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RAW FIELD DATA

SONIC DRILLING LOG

Contract:	Client:	Borehole:
Project Cronus	**Tata Steel UK Ltd**	**BH208**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**06.04.22** End: **06.04.22**	**6.18**	**E:277559.7 N:185748.9**	**2** of **2**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
						Soft to firm grey slightly peaty CLAY. *(stratum copied from 8.50m from previous sheet)*	(5.50) 14.00	
						Soft grey peaty silty CLAY.	(1.00) 15.00	
14.90 14.90	4	ES PID	1xT+1xJ+1xV 0.0ppm			Sonic Borehole terminated at 15m.		

Boring Progress and Water Observations

Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Sonic drilling	**Sonic Drilling Rig**	**Grant Goodwin**	**RHorne**	JCB

AGS

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RAW FIELD DATA

SONIC DRILLING LOG

Contract:	Client:	Borehole:
Project Cronus	**Tata Steel UK Ltd**	**BH209**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**19.04.22** End: **19.04.22**	**6.75**	**E:277497.3 N:186002.1**	**1** of **2**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
						MADE GROUND. Grey sandy GRAVEL. Sand is fine to coarse. Gravel is angular and subangular fine to coarse of sandstone and abundant slag and brick.	(1.60)	
1.20 1.20	1	ES PID	1xT+1xJ+1xV 0.5ppm				1.60	
						MADE GROUND. Brown to dark grey SAND. Sand is fine and medium. With Hydrocarbon odour.	(3.20)	
2.00 2.00	2	ES PID	1xT+1xJ+1xV 3.8ppm					
4.40 4.40	3	ES PID	1xT+1xJ+1xV 4.7ppm			. . . 4.30m to 4.80m; dark grey . . . 4.40m to 4.47m; 1 No. Cobble of tarmac (<30mm x 65mm x 70mm). . . . 4.50m to 4.80m; dark grey silty sand.	4.80	
						Firm grey mottled orangish brown CLAY,	(2.40)	
5.40 5.40	4	ES PID	1xT+1xJ+1xV 0.2ppm			. . . 6.80m to 7.20m; slightly peaty.	7.20	
						Firm brown psuedo-fibrous PEAT.	(1.00)	
						Soft grey locally slightly sandy SILT. Sand is fine.	8.20	

Boring Progress and Water Observations

Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

General Remarks

1. Position checked with Ground Penetrating Radar, CAT and Genny prior to excavation.
2. Checks for buried ferrous objects carried out during excavation by specialist unexploded ordnance (UXO) officer using magnetometer.
3. Inspection pit hand dug to 1.20m depth.

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Sonic drilling	**Sonic Drilling Rig**	**Grant Goodwin**	**RHorne**	JCJ

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RAW FIELD DATA

SONIC DRILLING LOG

Contract:	Client:	Borehole:
Project Cronus	**Tata Steel UK Ltd**	**BH209**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**19.04.22** End: **19.04.22**	**6.75**	**E:277497.3 N:186002.1**	**2** of **2**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
						Soft grey locally slightly sandy SILT. Sand is fine. *(stratum copied from 8.20m from previous sheet)* . . . 10.10m to 10.50m; slightly sandy. . . . 11.40m to 11.70m; slightly sandy.	(3.50) 11.70	
						Firm blueish grey slightly peaty CLAY.	(3.20) 15.00	
						Sonic borehole terminated at 15.00m.		

Boring Progress and Water Observations

Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Sonic drilling	**Sonic Drilling Rig**	**Grant Goodwin**	**RHorne**	JCB

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log SONIC DRILLING LOG - A4P | 315075-PROJECT-CRONUS.GPJ - v10_01.
RSK Environment Ltd, The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117 947 1006 Fax: 0117 947 1009 Web: www.rsk.co.uk. | 26/10/22 - 11:53 | SB5 |

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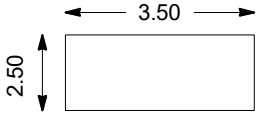
TRIAL PIT LOG

Contract:	Client:	Trial Pit:
Project Cronus	**Tata Steel UK Ltd**	**TP201**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**30.03.22** End: **30.03.22**	**5.79**	**E:277607.9 N:185831.4**	**1** of **1**

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.10 0.10	1	ES PID	 0.3ppm			Grass over dark brown gravelly silty topsoil with frequent rootlets.	0.10	
						MADE GROUND: Dark brown to black silty angular cobbles of slag . Medium boulder content (upto 1300x600x500mm) of slag and concrete. Fragments of metal, rubber (shoe).	(1.20)	
0.60 0.60	2	ES PID	 0.2ppm					
1.10 1.10	3	ES PID	 0.4ppm				1.30	
				1 1		MADE GROUND. Dark grey very soft slightly gravelly silty clay. Gravel is angular fine to coarse of slag. Strong burnt/hydrocarbon odour. Water has a sheen at 2.6m depth.	(1.60)	
1.60 1.60	4	ES PID	 1.1ppm				2.90	
						MADE GROUND. Black slightly silty gravelly angular COBBLES of slag. Gravel is angular fine to coarse of slag.	3.00	
						Trial pit terminated at 3.0m depth.		

Plan (Not to Scale)



General Remarks

1. Utility clearance undertaken using CAT and Genny and GPR
2. Groundwater seepage encountered at 2.60 m depth
3. Trial pit backfilled with arisings in reverse order upon completion.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**Wheeled 360° excavator**	**RLockyer**	JCB

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log TRIAL PIT LOG - A4P | 315075-PROJECT-CRONUS.GPJ - v10_01.
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RSK GEOSCIENCES

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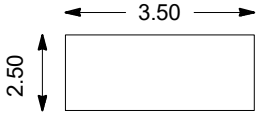
TRIAL PIT LOG

Contract:	Client:	Trial Pit:
Project Cronus	**Tata Steel UK Ltd**	**TP202**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**30.03.22** End: **30.03.22**	**5.59**	**E:277590.1 N:185765.3**	**1** of **1**

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.10 0.10	1	ES PID	 0.1ppm			Grass over black slightly gravelly slightly sandy topsoil. Gravel is angular fine to coarse of slag. Sand is fine. Frequent rootlets and fragments of wood. . . . Becoming slightly clayey and dark brown to grey at 0.35mbgl.	(0.80)	
0.50 0.50	2	ES PID	 0.1ppm				0.80	
1.00 1.00	3	ES PID	 0.1ppm	1		MADE GROUND. Grey silty angular fine to coarse gravel of slag with high cobble content of slag.	(0.90)	
						MADE GROUND. Dark grey gravelly silty clay. Gravel is angular fine to coarse of slag. Sheen on water seepage. Oil slick/sheen on soil.	1.70 (1.40)	
						Trial pit terminated at 3.10m depth.	3.10	

Plan (Not to Scale)



General Remarks

1. Utility clearance undertaken using CAT and Genny and GPR.
2. Groundwater encountered at 1.70 m depth
3. Trial pit backfilled with arisings in reverse order upon completion.
4. Moderate spalling at 1.10m

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**Wheeled 360° excavator**	**RLockyer**	JCB

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log TRIAL PIT LOG - A4P | 315075-PROJECT-CRONUS.GPJ - v10_01.
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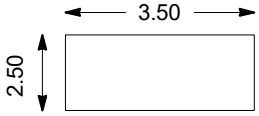
TRIAL PIT LOG

Contract:	Client:	Trial Pit:
Project Cronus	**Tata Steel UK Ltd**	**TP203**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**30.03.22** End: **30.03.22**	**5.84**	**E:277552.4 N:185801.9**	**1** of **1**

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.10 0.10	1	ES PID	 0.0ppm			Grass over brown slighty gravelly slightly sandy silty topsoil with frequent rootlets. Sand is fine. Gravel is subrounded to angular fine to medium of slag. Rare fragments of potential brick. Low cobble content of slag flat slabs 400x250x10mm.	(0.35) 0.35	
0.60 0.60	2	ES PID	 0.0ppm			MADE GROUND. Grey silty sandy angular gravel of slag with high angular cobble content of slag . Low angular boulder content 900x430x600mm	(0.85) 1.20	
1.30 1.30	3	ES PID	 0.0ppm			MADE GROUND. Dark grey mottled orange slightly gravelly silty clay. Gravel is angular fine to coarse of slag. Moderate odour. . . . Becoming orange and yellow brown at 1.8mbgl.	(1.40) 2.60	
2.00	4	ES		1 1		Trial pit terminated at 2.60m due to refusal on hard strata.		

Plan (Not to Scale)



General Remarks

1. Utility clearance undertaken using CAT and Genny and GPR.
2. Groundwater encountered at 2.30 m depth.
3. Trial pit backfilled with arisings in reverse order upon completion.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**Wheeled 360° excavator**	**RLockyer**	JCB

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log TRIAL PIT LOG - A4P | 315075-PROJECT-CRONUS.GPJ - v10_01.
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RSK GEOSCIENCES

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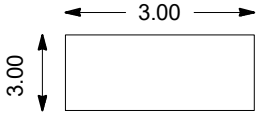
TRIAL PIT LOG

Contract:	Client:	Trial Pit:
Project Cronus	**Tata Steel UK Ltd**	**TP204**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**31.03.22** End: **31.03.22**	**6.67**	**E:277393.7 N:185854.8**	**1** of **1**

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.15	1	ES				MADE GROUND. Brown silty, slightly gravelly SAND. Gravel is fine to medium, angular to sub-angular. Comprising slag. Abundant rootlets.	(0.80) 0.80	
0.80	2	ES				MADE GROUND. Brownish orange, slightly silty SAND. Rare slag gravel, fine to coarse, angular.	(0.40) 1.20	
1.30	3	ES				MADE GROUND. Dark blackish brown very gravelly SAND. Gravel is fine to coarse, frequent cobbles. Rare boulders up to 40cm. Comprising slag.	(0.60) 1.80	
2.00	4	ES		1 1		MADE GROUND. Orange and grey, slightly silty SAND. Rare slag cobbles. Very wet. Coal tar/ hydrocarbon odour. Sheen on water.	(0.60) 2.40	
						Trial pit terminated at 2.40m depth.		

Plan (Not to Scale)



General Remarks

1. Utility clearance undertaken using CAT and Genny and GPR.
2. Groundwater encountered at 2.00 m depth.
3. Trial pit backfilled with arisings in reverse order upon completion.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**Wheeled 360° excavator**	**FNorman**	JCB

AGS

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log TRIAL PIT LOG - A4P | 315075-PROJECT-CRONUS.GPJ - v10_01.
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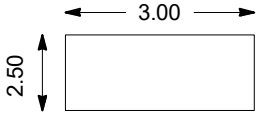
TRIAL PIT LOG

Contract:	Client:	Trial Pit:
Project Cronus	**Tata Steel UK Ltd**	**TP205**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**31.03.22** End: **31.03.22**	**6.24**	**E:277368.2 N:185918.6**	**1** of **1**

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.10	1	ES				Grass over brown, silty, slightly gravelly SAND. Abundant rootlets. Rare cobbles of limestone.	(0.50) 0.50	
0.60	2	ES				MADE GROUND. Brownish orange, slightly silty, gravelly SAND. Gravel is fine to coarse, rare fine to coarse cobbles. Comprising slag and limestone. Rare slag boulders uptown 0.8m x 0.8m.	(0.50) 1.00	
1.10	3	ES		1 1		MADE GROUND. Pale black, slightly silty, gravelly SAND. Gravel is fine to coarse, frequent cobbles. Comprising slag, limestone and brick. Rare limestone and slag boulders. Sheen on water. . . . Becomes greenish grey. Slightly silty.	(1.50) 2.50	
						Trial pit terminated due to pit instability at 2.50m depth.		

Plan (Not to Scale)



General Remarks

1. Utility clearance undertaken using CAT and Genny and GPR.
2. Groundwater encountered at 1.40 m depth.
3. Trial pit backfilled with arisings in reverse order upon completion.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**Wheeled 360° excavator**	**FNorman**	JCB

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log TRIAL PIT LOG - A4P | 315075-PROJECT-CRONUS.GPJ - v10_01.
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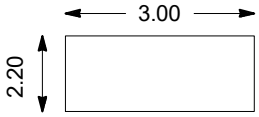
TRIAL PIT LOG

Contract:	Client:	Trial Pit:
Project Cronus	**Tata Steel UK Ltd**	**TP206**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**31.03.22** End: **31.03.22**	**6.38**	**E:277344.0 N:185994.7**	**1** of **1**

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.20	1	ES				Grass over brown, slightly silty, slightly gravelly SAND. Gravel is fine to medium. Angular to sub-angular. Comprising slag and limestone.	(0.35) 0.35	
0.60	2	ES				MADE GROUND. Brownish orange, slightly gravelly SAND. Gravel is fine to medium, angular to sub-rounded. Comprising slag and limestone.	(0.35) 0.70	
1.10	3	ES		1 1		MADE GROUND. Blackish greenish brown, slightly silty very gravelly, cobbley SAND. Travels and cobbles comprise, slag, limestone and rare brick. Rare large concrete boulders 0.6 x 0.8m.	(2.00) 2.70	
						Trial pit terminated at 2.70m depth.		

Plan (Not to Scale)



General Remarks

1. Utility clearance undertaken using CAT and Genny and GPR.
2. Groundwater encountered at 1.40 m depth.
3. Trial pit backfilled with arisings in reverse order upon completion.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**Wheeled 360° excavator**	**FNorman**	JCB

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log TRIAL PIT LOG - A4P | 315075-PROJECT-CRONUS.GPJ - v10_01.
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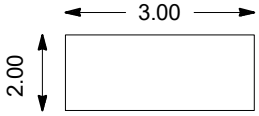
TRIAL PIT LOG

Contract:	Client:	Trial Pit:
Project Cronus	**Tata Steel UK Ltd**	**TP207**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**31.03.22**	**6.53**	**E:277329.3 N:186044.1**	**1** of **1**
	End: **31.03.22**			

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.20	1	ES				Grass over, brown slightly silty, very gravelly SAND. Abundant rootlets. Gravel is fine to medium, with rare large cobbles. Angular to sub-rounded. Comprising limestone, concrete, brick, slag.	(0.50) 0.50	
0.60	2	ES				MADE GROUND. Grey and pale orange mottled, slightly silty, gravelly, cobbley SAND. Fine gravel to coarse cobbles. Sub-angular to rounded. Comprising Limestone, concrete, brick and slag.	(0.30) 0.80	
1.10	3	ES		1		MADE GROUND. Slightly greenish grey, slightly silty, gravelly, slightly cobbley SAND. Gravell and cobbles as above. Sheen on water. Coal-tar smell.	(1.10) 1.90	
						Trial pit terminated due to shallow groundwater ingress at 1.90m depth.		

Plan (Not to Scale)



General Remarks

1. Utility clearance undertaken using CAT and Genny and GPR.
2. Groundwater encountered at 0.90 m depth.
3. Trial pit backfilled with arisings in reverse order upon completion.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**Wheeled 360° excavator**	**FNorman**	JCB

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log TRIAL PIT LOG - A4P | 315075-PROJECT-CRONUS.GPJ - v10_01.
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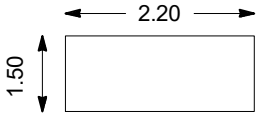
TRIAL PIT LOG

Contract:	Client:	Trial Pit:
Project Cronus	**Tata Steel UK Ltd**	**TP208**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**01.04.22** End: **01.04.22**	**7.12**	**E:277375.3 N:186082.5**	**1** of **1**

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.20	1	ES				MADE GROUND. Black silty angular fine to coarse gravel of brick, slag with , frequent wood and metal fragments. Boulder size metal fragments 600x350x10. medium angular cobble content of brick. Strong hydrocarbon odour.	(0.50)	
							0.50	
0.50	2	ES				MADE GROUND Brown gravelly coarse SAND with high cobble content of brick and concrete. Gravel is angular fine to coarse of slag, brick, concrete. Concrete block along entire length of pit between 0.6 to 1.1m about 0.3m wide... frequent metal fragments. . . . Boulders of concrete upto 650x450x150mm . . . Becoming dark grey	(0.60)	
1.00	3	ES		1 1			1.10	
						Trial pit terminated due to concrete obstruction at 1.10m depth.		

Plan (Not to Scale)



General Remarks

1. Utility clearance undertaken using CAT and Genny and GPR.
2. Groundwater encountered at 1.00 m depth.
3. Trial pit backfilled with arisings in reverse order upon completion.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**Wheeled 360° excavator**	**RLockyer**	JCB

AGS

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log TRIAL PIT LOG - A4P | 315075-PROJECT-CRONUS.GPJ - v10_01.
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RSK GEOSCIENCES

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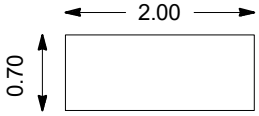
TRIAL PIT LOG

Contract:	Client:	Trial Pit:
Project Cronus	**Tata Steel UK Ltd**	**TP209**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**01.04.22** End: **01.04.22**	**6.85**	**E:277371.5 N:186033.2**	**1** of **1**

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.20	1	ES				MADE GROUND. Dark brown slightly clay slightly sandy fine to coarse GRAVEL of brick, slag, metal, concrete. Sand is fine to coarse.	(0.90) 0.90	
0.90	2	ES				MADE GROUND. Brown grey slightly sandy gravelly COBBLES of concrete. Frequent fragments of metal , textiles. Sand is fine to coarse.	(0.30) 1.20	
1.20	3	ES		1 1		MADE GROUND. Pale brown to green brown gravelly fine to coarse SAND. Rare brick. Gravel is angular fine to coarse of concrete and sandstone.	(0.80) 2.00	
						Trial pit terminated due to wall instability at 2.00m depth.		

Plan (Not to Scale)



General Remarks

1. Utility clearance undertaken using CAT and Genny and GPR.
2. Groundwater encountered at 1.40 m depth.
3. Trial pit backfilled with arisings in reverse order upon completion.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**Wheeled 360° excavator**	**RLockyer**	JCB

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RSK GEOSCIENCES

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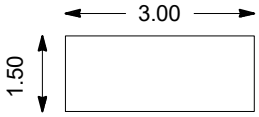
TRIAL PIT LOG

Contract:	Client:	Trial Pit:
Project Cronus	**Tata Steel UK Ltd**	**TP210**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**04.04.22** End: **04.04.22**	**6.67**	**E:277388.7 N:185985.2**	**1** of **1**

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.10	1	ES				MADE GROUND. Dark brown clayey angular fine to coarse GRAVEL of brick, plastic, slag.	0.15	
0.10		PID	1.0ppm					
0.20	2	ES				MADE GROUND. Black very sandy angular fine to coarse GRAVEL of slag, brick . Frequent metal fragments, braded/twisted cables. Strong odour. Low cobble content of angular brick, slag. . . . 50mm thick horizontal metal panel protruding from one wall	(0.80)	
0.20		PID	0.1ppm				0.95	
0.95	3	ES				MADE GROUND. Grey and brown slightly silty gravelly fine to medium SAND. Extremely strong odour. Gravel is subangular fine to medium of slag. Plastic fragments. Hydrocarbon sheen. Rare cobbles of slag. . . . Frequent twisted cables.		
0.95		PID	0.4ppm					
				1 1		. . . Becoming pale bluish grey	(1.65)	
						. . . Mottled black	2.60	
						Trial pit terminated due to wall instability at 2.60m depth.		

Plan (Not to Scale)



General Remarks

1. Utility clearance undertaken using CAT and Genny and GPR.
2. Groundwater encountered at 1.80 m depth.
3. Trial pit backfilled with arisings in reverse order upon completion.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**Wheeled 360° excavator**	**RLockyer**	JCB

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log TRIAL PIT LOG - A4P | 315075-PROJECT-CRONUS.GPJ - v10_01.
RSK Environment Ltd, The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117 947 1006 Fax: 0117 947 1009 Web: www.rsk.co.uk. | 26/10/22 - 11:54 | SB5 |

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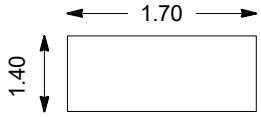
TRIAL PIT LOG

Contract:	Client:	Trial Pit:
Project Cronus	**Tata Steel UK Ltd**	**TP211**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**04.04.22** End: **04.04.22**	**7.37**	**E:277453.0 N:186294.4**	**1** of **1**

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.10 0.10	1	ES PID	 0.1ppm			MADE GROUND. Reddish brown silty fine to coarse GRAVEL of slag.	0.05	
						MADE GROUND. Grey sandy angular fine to coarse GRAVEL of slag and brick. Metallic particles in the sand.	0.15	
						MADE GROUND brown grey slightly gravelly silty angular COBBLES of slag. Low boulder content upto 250x150x190mm. . . . Concrete wall along south wall of pit.	(1.00)	
0.50 0.50	2	ES PID	 0.1ppm	1 1				
						Trial pit terminated due to concrete obstruction at 1.15m depth.	1.15	

Plan (Not to Scale)



General Remarks

1. Utility clearance undertaken using CAT and Genny and GPR.
2. Groundwater encountered at 1.00 m depth.
3. Trial pit backfilled with arisings in reverse order upon completion.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**Wheeled 360° excavator**	**RLockyer**	JCB

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log TRIAL PIT LOG - A4P | 315075-PROJECT-CRONUS.GPJ - v10_01.
RSK Environment Ltd, The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117 947 1006 Fax: 0117 947 1009 Web: www.rsk.co.uk. | 26/10/22 - 11:54 | SB5 |

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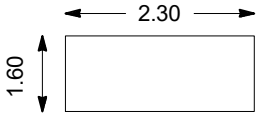
TRIAL PIT LOG

Contract:	Client:	Trial Pit:
Project Cronus	**Tata Steel UK Ltd**	**TP212**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**04.04.22** End: **04.04.22**	**7.47**	**E:277465.9 N:186294.0**	**1** of **1**

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.10 0.10	1	ES PID	0.5ppm			MADE GROUND red brown silty angular fine to coarse GRAVEL of slag.	0.20	
						MADE GROUND Grey sandy angular fine to coarse gravel of slag and brick. Metallic particles in sand.	(0.30) 0.50	
0.50 0.50	2	ES PID	0.0ppm			Made GROUND dark grey to black slightly gravelly fine to medium SAND. Gravel subrounded angular fine to medium of slag and brick.	(0.60)	
						. . . Concrete or hard slag step on shortest end of trial pit.		
1.00 1.00	3	ES PID	0.1ppm				1.10	
						Trial pit terminated due to concrete or hard slag between 0.90m and 1.10m depth.		

Plan (Not to Scale)



General Remarks

1. Utility clearance undertaken using CAT and Genny and GPR.
2. No groundwater encountered.
3. Trial pit backfilled with arisings in reverse order upon completion.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**Wheeled 360° excavator**	**RLockyer**	JCB

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log TRIAL PIT LOG - A4P | 315075-PROJECT-CRONUS.GPJ - v10_01.
RSK Environment Ltd, The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117 947 1006 Fax: 0117 947 1009 Web: www.rsk.co.uk. | 26/10/22 - 11:54 | SB5 |

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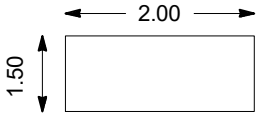
TRIAL PIT LOG

Contract:	Client:	Trial Pit:
Project Cronus	**Tata Steel UK Ltd**	**TP213**

Contract Ref:	Start: **04.04.22**	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	End: **04.04.22**	**6.83**	**E:277476.3 N:186252.4**	**1** of **1**

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
						MADE GROUND. Brown gravelly SILT. Gravel is angular fine of slag.	0.15	
0.20	1	ES				MADE GROUND. Dark grey sandy angular to subangular fine to coarse GRAVEL of slag and concrete. Sand is fine to medium. Low cobble content of angular slag.	(0.45)	
0.20		PID	0.0ppm					
0.45	2	ES					0.60	
0.45		PID	0.0ppm					
0.55	3	ES				MADE GROUND. Solid compacted slag.	0.70	
0.55		PID	0.1ppm			Trial pit terminated due to hard strata at 0.70m depth.		

Plan (Not to Scale)



General Remarks

1. Utility clearance undertaken using CAT and Genny and GPR.
2. No groundwater encountered.
3. Trial pit backfilled with arisings in reverse order upon completion.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**Wheeled 360° excavator**	**RLockyer**	JCB

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log TRIAL PIT LOG - A4P | 315075-PROJECT-CRONUS.GPJ - v10_01.
RSK Environment Ltd, The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117 947 1006 Fax: 0117 947 1009 Web: www.rsk.co.uk. | 26/10/22 - 11:54 | SB5 |

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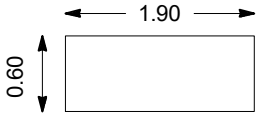
TRIAL PIT LOG

Contract:	Client:	Trial Pit:
Project Cronus	**Tata Steel UK Ltd**	**TP214**

Contract Ref:	Start: **01.04.22** End: **01.04.22**	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075		**6.79**	**E:277535.0 N:186106.5**	**1** of **1**

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.10	1	ES				MADE GROUND. Brown sandy silty angular to subangular fine to medium GRAVEL of slag, brick, clicker, glass. Sand is fine to coarse.	(0.70)	
0.50	2	ES						
0.60	3	ES					0.70	
						Trial pit terminated due to concrete obstruction across entire pit width and length at 0.70m depth.		

Plan (Not to Scale)



General Remarks

1. Utility clearance undertaken using CAT and Genny and GPR.
2. No groundwater encountered.
3. Trial pit backfilled with arisings in reverse order upon completion.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**Wheeled 360° excavator**	**RLockyer**	JCB

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log TRIAL PIT LOG - A4P | 315075-PROJECT-CRONUS.GPJ - v10_01.
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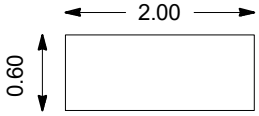
TRIAL PIT LOG

Contract:	Client:	Trial Pit:
Project Cronus	**Tata Steel UK Ltd**	**TP215**

Contract Ref:	Start: **01.04.22** End: **01.04.22**	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075		**7.02**	**E:277543.9 N:186080.4**	**1** of **1**

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.20	1	ES				MADE GROUND: Brown sandy angular fine to coarse GRAVEL of slag and metal fragments.	(0.30) 0.30	
						Trial pit terminated due to obstruction/hard strata solid slag at 0.30m depth.		

Plan (Not to Scale)



General Remarks

1. Utility clearance undertaken using CAT and Genny and GPR.
2. No groundwater encountered at.
3. Trial pit backfilled with arisings in reverse order upon completion.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**Wheeled 360° excavator**	**RLockyer**	JCB

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log TRIAL PIT LOG - A4P | 315075-PROJECT-CRONUS.GPJ - v10_01.
RSK Environment Ltd, The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117 947 1006 Fax: 0117 947 1009 Web: www.rsk.co.uk. | 26/10/22 - 11:54 | SB5 |

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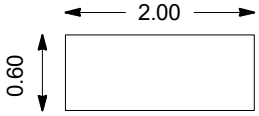
TRIAL PIT LOG

Contract:	Client:	Trial Pit:
Project Cronus	**Tata Steel UK Ltd**	**TP216**

Contract Ref:	Start: **01.04.22**	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	End: **01.04.22**	**7.14**	**E:277548.4 N:186047.8**	**1** of **1**

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.15	1	ES				MADE GROUND. Brown and dark grey slightly silty sandy angular fine to coarse GRAVEL of slag, brick with low cobble content of slag. Sand is fine to coarse. Frequent fragments of wood. . . . Becoming black mottled white gravel of concrete	(0.70)	
0.60	2	ES					0.70	
						Trial pit terminated due reinforced concrete slab across entire pit width and length at 0.70m depth.		

Plan (Not to Scale)



General Remarks

1. Utility clearance undertaken using CAT and Genny and GPR.
2. No groundwater encountered.
3. Trial pit backfilled with arisings in reverse order upon completion.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**Wheeled 360° excavator**	**RLockyer**	JCB

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log TRIAL PIT LOG - A4P | 315075-PROJECT-CRONUS.GPJ - v10_01.
RSK Environment Ltd, The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117 947 1006 Fax: 0117 947 1009 Web: www.rsk.co.uk. | 26/10/22 - 11:54 | SB5 |

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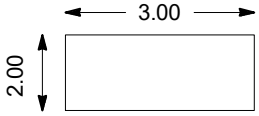
TRIAL PIT LOG

Contract:	Client:	Trial Pit:
Project Cronus	**Tata Steel UK Ltd**	**TP217**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**05.04.22** End: **05.04.22**	**6.84**	**E:277476.3 N:186252.4**	**1** of **1**

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.10	1	ES				MADE GROUND. Dark brownish black slightly silty, very sandy GRAVEL. Gravel is fine to coarse, angular to sub-rounded. Comprising mostly slag and metal chunks.	(0.30) 0.30	
0.50	2	ES				MADE GROUND. Dark grey slightly sandy cobbley GRAVEL. Fine gravel to coarse cobbles. Comprising slag and natural stone. Angular to sub-rounded. Conta	(0.80) 1.10	
1.20	3	ES				MADE GROUND. Dark black silty, gravelly SAND. Appears to comprise in the most part from coal dust. Gravel is fine to coarse. Angular to sub-rounded. Comprising slag and coal.	(0.40) 1.50	
						MADE GROUND. Light grey, rare mottled black, slightly sandy GRAVEL & COBBLES. Fine gravel to coarse cobbles. Comprising slag.	(0.50) 2.00	
						Trial pit terminated due to refusal at 2.00m depth.		

Plan (Not to Scale)



General Remarks

1. Utility clearance undertaken using CAT and Genny and GPR.
2. No groundwater encountered.
3. Trial pit backfilled with arisings in reverse order upon completion.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**Wheeled 360° excavator**	**FNorman**	JCB

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log TRIAL PIT LOG - A4P | 315075-PROJECT-CRONUS.GPJ - v10_01.
RSK Environment Ltd, The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117 947 1006 Fax: 0117 947 1009 Web: www.rsk.co.uk. | 26/10/22 - 11:54 | SB5 |

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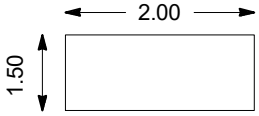
TRIAL PIT LOG

Contract:	Client:	Trial Pit:
Project Cronus	**Tata Steel UK Ltd**	**TP218**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**05.04.22** End: **05.04.22**	**7.57**	**E:277655.5 N:186040.3**	**1** of **1**

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.20	1	ES				MADE GROUND. Dark blackish brown slightly silty, very sandy GRAVEL. Gravel is fine to coarse, angular to sub-rounded. Comprising slag and natural stone.	(0.60)	
0.60	2	ES				Trial pit terminated due to refusal at 0.60m depth.	0.60	

Plan (Not to Scale)



General Remarks

1. Utility clearance undertaken using CAT and Genny and GPR.
2. No groundwater encountered.
3. Trial pit backfilled with arisings in reverse order upon completion.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**Wheeled 360° excavator**	**FNorman**	JCB

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log TRIAL PIT LOG - A4P | 315075-PROJECT-CRONUS.GPJ - v10_01.
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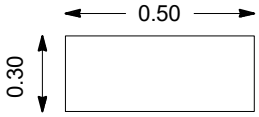
TRIAL PIT LOG

Contract:	Client:	Trial Pit:
Project Cronus	**Tata Steel UK Ltd**	**TP221**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**07.04.22** End: **07.04.22**	**5.25**	**E:277748.6 N:185842.4**	**1** of **1**

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.10	1	ES				Grass over dark brownish black, very sandy, slightly gravelly SILT. Gravel is fine to coarse, angular to sub-rounded. Comprising slag. Contains abundant rootlets.	0.15	
						MADE GROUND. Light grey slightly silty, very gravelly SAND. Gravel is fine to coarse, angular to sub-rounded. Comprising slag.	(0.45)	
0.50	2	ES					0.60	
						Hand pit terminated due to refusal at 0.60m depth.		

Plan (Not to Scale)



General Remarks

1. Utility clearance undertaken using CAT and Genny and GPR.
2. No groundwater encountered.
3. Hand pit backfilled with arisings in reverse order upon completion.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Hand dug	**Hand tools**	**FNorman**	JCB

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log TRIAL PIT LOG - A4P | 315075-PROJECT-CRONUS.GPJ - v10_01.
RSK Environment Ltd, The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117 947 1006 Fax: 0117 947 1009 Web: www.rsk.co.uk. | 26/10/22 - 11:54 | SB5 |

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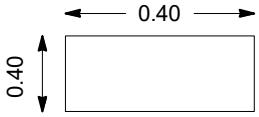
TRIAL PIT LOG

Contract:	Client:	Trial Pit:
Project Cronus	**Tata Steel UK Ltd**	**TP222**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**06.04.22** End: **06.04.22**	**5.32**	**E:277734.0 N:185801.9**	**1** of **1**

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.20	1	ES				Grass over black slightly silty, gravelly SAND. Gravel is fine to coarse, angular to sub-rounded. Comprising slag.	(0.90)	
0.50	2	ES						
0.90	3	ES				Hand pit terminated due to refusal at 0.90m depth.	0.90	

Plan (Not to Scale)



General Remarks

1. Utility clearance undertaken using CAT and Genny and GPR.
2. No groundwater encountered.
3. Hand pit backfilled with arisings in reverse order upon completion.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Hand dug	**Hand tools**	**FNorman**	JCB

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log TRIAL PIT LOG - A4P | 315075-PROJECT-CRONUS.GPJ - v10_01.
RSK Environment Ltd, The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117 947 1006 Fax: 0117 947 1009 Web: www.rsk.co.uk. | 26/10/22 - 11:54 | SB5 |

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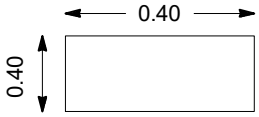
TRIAL PIT LOG

Contract:	Client:	Trial Pit:
Project Cronus	**Tata Steel UK Ltd**	**TP223**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**07.04.22** End: **07.04.22**	**5.38**	**E:277756.7 N:185792.3**	**1** of **1**

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
						Grass over soft to firm dark brownish black very sandy, slightly gravelly SILT. Gravel is fine to medium. Angular to sub-rounded. Comprising slag. Abundant rootlets.	0.10	
0.20	1	ES				MADE GROUND. Greyish black, slightly silty, gravelly SAND. Rare cobbles. Gravel is fine to coarse, angular to sub-rounded. Comprising slag.	(0.80)	
0.50	2	ES						
0.90	3	ES				Hand pit terminated due to refusal at 0.90m depth.	0.90	

Plan (Not to Scale)



General Remarks

1. Utility clearance undertaken using CAT and Genny and GPR.
2. No groundwater encountered.
3. Hand pit backfilled with arisings in reverse order upon completion.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Hand dug	**Hand tools**	**FNorman**	JCB

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log TRIAL PIT LOG - A4P | 315075-PROJECT-CRONUS.GPJ - v10_01.
RSK Environment Ltd, The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117 947 1006 Fax: 0117 947 1009 Web: www.rsk.co.uk. | 26/10/22 - 11:55 | SB5 |

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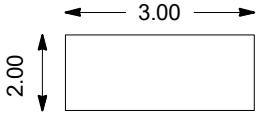
TRIAL PIT LOG

Contract:	Client:	Trial Pit:
Project Cronus	**Tata Steel UK Ltd**	**TP224**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**04.04.22** End: **04.04.22**	**6.31**	**E:277832.5 N:185829.1**	**1** of **1**

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.20	1	ES				MADE GROUND. Slightly greyish brown slightly silty, very gravelly SAND. Occasional cobbles. Fine gravel to medium cobbles. Comprising mostly slag with rare natural stone and bricks.	(0.40)	
							0.40	
0.50	2	ES				MADE GROUND. Estimated very dense, dark reddish brown slightly silty, very sandy cobbley GRAVEL. Gravel is fine to coarse. Cobbles are fine to medium. Comprising slag and natural stone. . . . Loose coiled wires.		
1.10 1.10	3	ES PID	0.5ppm			. . . Becomes grey, rare mottled brown.	(1.20)	
							1.60	
						MADE GROUND. Bluish grey, rare mottled pale yellow and brown sandy very cobbley GRAVEL. Fine gravel to coarse cobbles. Comprising slag.	(1.40)	
							3.00	
						Trial pit terminated at 3.00m depth.		

Plan (Not to Scale)



General Remarks

1. Utility clearance undertaken using CAT and Genny and GPR.
2. No groundwater encountered.
3. Trial pit backfilled with arisings in reverse order upon completion.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**Wheeled 360° excavator**	**FNorman**	JCB

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log TRIAL PIT LOG - A4P | 315075-PROJECT-CRONUS.GPJ - v10_01.
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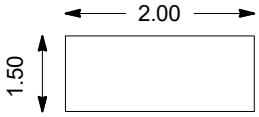
TRIAL PIT LOG

Contract:	Client:	Trial Pit:
Project Cronus	**Tata Steel UK Ltd**	**TP225**

Contract Ref:	Start: **04.04.22** End: **04.04.22**	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075		**6.36**	**E:277800.0 N:185828.5**	**1** of **1**

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.20 0.20	1	ES PID	0.3ppm			MADE GROUND. Greyish brown slightly silty, very sandy GRAVEL. Gravel is fine to coarse, rounded to sub-angular. Comprising mostly slag, with rare concrete and brick fragments.	(0.35) 0.35	
0.50 0.50	2	ES PID	0.2ppm			MADE GROUND. Brownish grey sandy slightly cobbley GRAVEL. Fine gravel to coarse cobbles. Angular to sub-rounded. Comprising slag and concrete.	0.50	
						Trial pit terminated due to refusal at 0.50m depth.		

Plan (Not to Scale)



General Remarks

1. Utility clearance undertaken using CAT and Genny and GPR.
2. No groundwater encountered.
3. Trial pit backfilled with arisings in reverse order upon completion.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**Wheeled 360° excavator**	**FNorman**	JCB

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log TRIAL PIT LOG - A4P | 315075-PROJECT-CRONUS.GPJ - v10_01.
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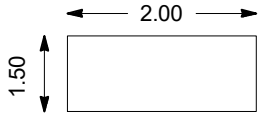
TRIAL PIT LOG

Contract:	Client:	Trial Pit:
Project Cronus	**Tata Steel UK Ltd**	**TP226**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**04.04.22** End: **04.04.22**	**6.21**	**E:277868.2 N:185760.0**	**1** of **1**

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.20 0.20	1	ES PID	 0.2ppm			MADE GROUND. Brownish grey slightly silty, sandy GRAVEL. Gravel is fine to coarse, rounded to sub-angular. Comprising slag, natural stone and brick fragments. Rare cobbles of same composition.	(0.40) 0.40	
0.50 0.50	2	ES PID	 0.2ppm			MADE GROUND. Slightly brownish grey slightly silty, very gravelly, cobbley SAND. Fine gravel to coarse cobbles. Rounded to sub-angular. Comprising slag, iron, brick, concrete and natural stone.	(0.30) 0.70	
						Trial pit terminated due to refusal at 0.70m depth.		

Plan (Not to Scale)



General Remarks

1. Utility clearance undertaken using CAT and Genny and GPR.
2. No groundwater encountered.
3. Trial pit backfilled with arisings in reverse order upon completion.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**Wheeled 360° excavator**	**FNorman**	JCB

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log TRIAL PIT LOG - A4P | 315075-PROJECT-CRONUS.GPJ - v10_01.
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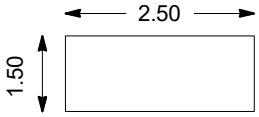
TRIAL PIT LOG

Contract:	Client:	Trial Pit:
Project Cronus	**Tata Steel UK Ltd**	**TP227**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**01.04.22** End: **01.04.22**	**5.88**	**E:277786.5 N:185694.7**	**1** of **1**

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.10	1	ES				MADE GROUND. Black, slightly silty, very gravelly, cobbledy SAND. Mostly comprising coal. Gravel is fine to coarse, sub-angular to sub-rounded.	(0.40)	
							0.40	
0.50	2	ES				MADE GROUND. Brownish grey slightly silty, very gravelly slightly cobbley SAND. Gravel is fine to coarse, cobbles are fine to coarse. Sub-angular to rounded. Comprising, natural stone, coal, tiles, concrete and slag.		
1.20	3	ES				. . . Gravel and cobbles become predominantly slag. Becomes cobbley.	(1.90)	
							2.30	
						MADE GROUND. Firm slightly greyish brown sandy, very gravelly SILT. Gravel is fine to coarse, angular to sub-rounded. Comprising slag and natural stone.	(1.00)	
							3.30	
						Trial pit terminated at 3.30m depth.		

Plan (Not to Scale)



General Remarks

1. Utility clearance undertaken using CAT and Genny and GPR.
2. Groundwater encountered at 2.20m.
3. Trial pit backfilled with arisings in reverse order upon completion.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**Wheeled 360° excavator**	**FNorman**	JCB

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log TRIAL PIT LOG - A4P | 315075-PROJECT-CRONUS.GPJ - v10_01.
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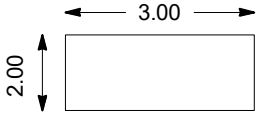
TRIAL PIT LOG

Contract:	Client:	Trial Pit:
Project Cronus	**Tata Steel UK Ltd**	**TP228**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**01.04.22** End: **01.04.22**	**5.66**	**E:277809.7 N:185667.7**	**1** of **1**

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
						MADE GROUND. Black very gravelly SAND. Gravel and sand comprises mostly coal with rare slag and natural stone. Fine to coarse, angular to sub-rounded.	(0.30)	
							0.30	
0.30	1	ES				MADE GROUND. Greyish brown and black mottled, very gravelly, very cobbley SAND. Gravel is fine to coarse, cobbles are fine to coarse, rare concrete and slag boulders up to 50cm. Gravel comprises mostly slag, concrete, white stone, rare tile fragments.		
0.60	2	ES						
1.20	3	ES				. . . Becomes very sandy, very cobbley GRAVEL.	(2.10)	
							2.40	
						MADE GROUND. Firm dark blackish brown, very gravelly SILT. Rare cobbles. Gravel is fine to coarse, angular to sub-rounded, comprising slag and natural stone.	(0.60)	
							3.00	
						Trial pit terminated at 3.00m depth.		

Plan (Not to Scale)



General Remarks

1. Utility clearance undertaken using CAT and Genny and GPR.
2. No groundwater encountered.
3. Trial pit backfilled with arisings in reverse order upon completion.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**Wheeled 360° excavator**	**FNorman**	JCB

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log TRIAL PIT LOG - A4P | 315075-PROJECT-CRONUS.GPJ - v10_01.
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RSK GEOSCIENCES

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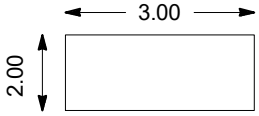
TRIAL PIT LOG

Contract:	Client:	Trial Pit:
Project Cronus	**Tata Steel UK Ltd**	**TP229**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**01.04.22** End: **01.04.22**	**5.93**	**E:277732.0 N:185577.6**	**1** of **1**

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.20	1	ES				MADE GROUND. Slightly brownish black, very gravelly, cobbley SAND. Most of the material comprises coal and slag. Gravel is fine to coarse, angular to sub-rounded. Occasional concrete.	(0.50) 0.50	
0.60	2	ES				MADE GROUND. Blackish brown slightly silty, gravelly, very cobbley SAND. Fine gravel to coarse cobbles. Sub-angular to rounded. Comprising concrete and slag. Contains old crushed containers, nothing contained within, approx 10l originally. Also contains conveyor wheels, wire bricks, bottles, plastic lids, fabric, metal sheeting and tubes, wood.	(1.40) 1.90	
1.30	3	ES				MADE GROUND. Firm, greenish, blackish brown, very sandy, slightly gravelly, slightly cobbley SILT. Rare concrete boulders up to 60cm. Gravel is fine to coarse, angular to sub-rounded. Comprising slag and natural stone	(1.10) 3.00	
						Trial pit terminated at 3.00m depth.		

Plan (Not to Scale)



General Remarks

1. Utility clearance undertaken using CAT and Genny and GPR.
2. No groundwater encountered.
3. Trial pit backfilled with arisings in reverse order upon completion.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**Wheeled 360° excavator**	**FNorman**	JCB

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log TRIAL PIT LOG - A4P | 315075-PROJECT-CRONUS.GPJ - v10_01.
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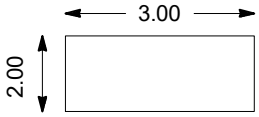
TRIAL PIT LOG

Contract:	Client:	Trial Pit:
Project Cronus	**Tata Steel UK Ltd**	**TP230**

Contract Ref:	Start: **01.04.22** End: **01.04.22**	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075		**5.85**	**E:277798.3 N:185609.5**	**1** of **1**

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.15	1	ES				MADE GROUND. Black very gravelly, slightly cobbley SAND. Material comprises coal and slag. Gravel is fine to coarse. Very difficult to excavate.	(0.50)	
0.50	2	ES				Trial pit terminated due to refusal at 0.50m depth.	0.50	

Plan (Not to Scale)



General Remarks

1. Utility clearance undertaken using CAT and Genny and GPR.
2. No groundwater encountered.
3. Trial pit backfilled with arisings in reverse order upon completion.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**Wheeled 360° excavator**	**FNorman**	JCB

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log TRIAL PIT LOG - A4P | 315075-PROJECT-CRONUS.GPJ - v10_01.
RSK Environment Ltd, The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117 947 1006 Fax: 0117 947 1009 Web: www.rsk.co.uk. | 26/10/22 - 11:55 | SB5 |

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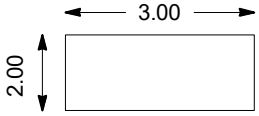
TRIAL PIT LOG

Contract:	Client:	Trial Pit:
Project Cronus	**Tata Steel UK Ltd**	**TP231**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**05.04.22** End: **05.04.22**	**5.66**	**E:277809.7 N:185667.7**	**1** of **1**

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.10	1	ES				MADE GROUND. Blackish brown slightly silty, very gravelly SAND. Gravel is fine to coarse, angular to sub-rounded. Comprising slag and concrete. Occasional cobbles, rare slag boulders up to 60cm.	(1.20)	
0.60	2	ES					1.20	
1.40	3	ES				Pale greenish grey very sandy, slightly gravelly SILT. Gravel is fine to medium, rounded to sub-angular, comprising natural stone. Contains relict rootlets.	(1.80)	
						. . . Becomes soft at 2.2m. Slightly sandy.	3.00	
						Trial pit terminated at 3.00m depth.		

Plan (Not to Scale)



General Remarks

1. Utility clearance undertaken using CAT and Genny and GPR.
2. Groundwater encountered at 1.20m.
3. Trial pit backfilled with arisings in reverse order upon completion.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**Wheeled 360° excavator**	**FNorman**	JCB

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log TRIAL PIT LOG - A4P | 315075-PROJECT-CRONUS.GPJ - v10_01.
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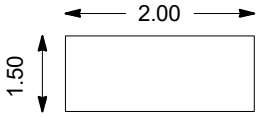
TRIAL PIT LOG

Contract:	Client:	Trial Pit:
Project Cronus	**Tata Steel UK Ltd**	**TP232**

Contract Ref:	Start: **05.04.22** End: **05.04.22**	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075		**5.22**	**E:278206.4 N:185683.0**	**1** of **1**

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.10	1	ES				MADE GROUND. Light and dark brown mottled, slightly silty, gravelly SAND. Gravel is fine to coarse, rare cobbles, angular to sub-rounded. Comprising slag, concrete and mixed grey and red bricks. Rare iron splatter fragments.	(1.00)	
0.50	2	ES						
0.50		PID	0.1ppm				1.00	
1.20	3	ES		1 1		MADE GROUND. Firm dark blackish brown sandy, slightly gravelly SILT. Gravel is fine to medium. Rounded to sub-angular. Comprising slag and natural stone. Contains large wooden pieces (2" x 4") and wire. Olfactory reaction, organic and hydrocarbon. Contains grey silty sand lenses throughout.	(1.40)	
							2.40	
						Trial pit terminated due to water ingress at 2.40m depth.		

Plan (Not to Scale)



General Remarks

1. Utility clearance undertaken using CAT and Genny and GPR.
2. Groundwater encountered at 2.00m.
3. Trial pit backfilled with arisings in reverse order upon completion.
4. Hydrocarbon sheen on water.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**Wheeled 360° excavator**	**FNorman**	JCB

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log TRIAL PIT LOG - A4P | 315075-PROJECT-CRONUS.GPJ - v10_01.
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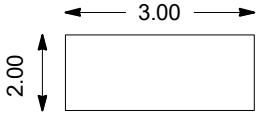
TRIAL PIT LOG

Contract:	Client:	Trial Pit:
Project Cronus	**Tata Steel UK Ltd**	**TP233**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**04.04.22** End: **04.04.22**	**5.08**	**E:278255.7 N:185571.1**	**1** of **1**

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.10	1	ES				MADE GROUND. Reddish brown slightly silty, very gravelly SAND. Gravel is fine to coarse. Occasional cobbles. Comprising slag, concrete and natural stone.	(0.60) 0.60	
0.65	2	ES				MADE GROUND. Grey with red mottling, very sandy cobbley GRAVEL. Fine gravel to coarse cobbles. Comprising slag. Rare boulders upto	(0.70) 1.30	
1.40	3	ES		1		MADE GROUND. Stiff black and orange mottled very sandy, slightly gravelly SILT. Gravel is fine to coarse, angular to sub-rounded. Comprising slag.	(0.30) 1.60	
						Stiff pale orange and black slightly sandy (with very sandy lenses), clayey SILT. Rare relict rootlets. No olfactory reaction.	(2.10) 3.70	
						Trial pit terminated at 3.70m depth.		

Plan (Not to Scale)



General Remarks

1. Utility clearance undertaken using CAT and Genny and GPR.
2. Groundwater encountered at 1.60m.
3. Trial pit backfilled with arisings in reverse order upon completion.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**Wheeled 360° excavator**	**FNorman**	JCB

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RSK Environment Ltd, The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117 947 1006 Fax: 0117 947 1009 Web: www.rsk.co.uk. | 26/10/22 - 11:55 | SB5 |

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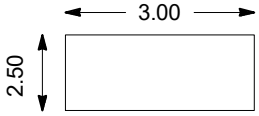
TRIAL PIT LOG

Contract:	Client:	Trial Pit:
Project Cronus	**Tata Steel UK Ltd**	**TP234**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**04.04.22** End: **04.04.22**	**5.35**	**E:278242.4 N:185570.1**	**1** of **1**

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.10	1	ES				MADE GROUND. Brown slightly silty, very sandy GRAVEL. Gravel is fine to coarse. Rare cobbles. Rounded to sub-angular. Comprising slag. Contains shredded metal containers.	(0.40)	
							0.40	
0.50	2	ES				MADE GROUND. Slightly brownish grey sandy, very cobbley GRAVEL. Fine gravel to coarse cobbles. Rare boulders up to 50cm. Comprising slag.	(0.90)	
1.10	3	ES					1.30	
1.50	4	ES		1 1		MADE GROUND. Black with rare orange bottling, sandy, slightly gravelly SILT. Gravel is fine to medium, rounded to sub-angular. Comprising natural stone and slag. Occasional grey very sandy lenses. Evidence of hydrocarbon contamination (oil/ coal tar). . . . Becomes grey and brown mottled.	(2.00)	
							3.30	
						Trial pit terminated ta 3.30m depth.		

Plan (Not to Scale)



General Remarks

1. Utility clearance undertaken using CAT and Genny and GPR.
2. Groundwater encountered at 2.30m.
3. Trial pit backfilled with arisings in reverse order upon completion.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**Wheeled 360° excavator**	**FNorman**	JCB

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log TRIAL PIT LOG - A4P | 315075-PROJECT-CRONUS.GPJ - v10_01.
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RAW FIELD DATA

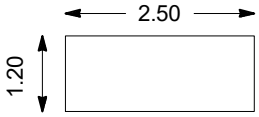
TRIAL PIT LOG

Contract:	Client:	Trial Pit:
Project Cronus	**Tata Steel UK Ltd**	**TP04**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**24.11.21** End: **24.11.21**	**---**	**E:277600.0 N:186360.0**	**1** of **1**

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
						MADE GROUND: Brown slightly silty sand GRAVEL. Sand is fine to coarse. Gravel is angular and subangular fine to coarse of slag, concrete and occasional.	(0.60)	
							0.60	
0.80-0.80 0.80 0.90-1.40	1 3	ES PID B	1xT+1xJ+1xV 0.1ppm			MADE GROUND: Dark grey slightly silty sandy GRAVEL. Sand is fine to coarse. Gravel is angular fine to coarse of slag. With 2 No fragments of asbestos cement (<10mm x 45mm x 65mm).	(0.80)	
1.40-1.40	2	ES				. . . 1.35m to 1.40m; With 2 No fragments of asbestos cement (<10mm x 45mm x 65mm).	1.40	

Plan (Not to Scale)



General Remarks

1. Pit terminated due to ACM found, samples taken and pit backfilled.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**Wheeled 360° excavator**	**RHorne**	JCB

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log TRIAL PIT LOG - A4P | 315075-PROJECT-CRONUS.GPJ - v10_01.
RSK Environment Ltd, The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117 947 1006 Fax: 0117 947 1009 Web: www.rsk.co.uk. | 04/03/22 - 11:15 | SB5 |

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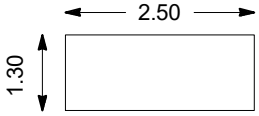
TRIAL PIT LOG

Contract:	Client:	Trial Pit:
Project Cronus	**Tata Steel UK Ltd**	**TP05**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**03.12.21** End: **03.12.21**	**---**	**E:277737.0 N:186412.0**	**1** of **1**

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
						MADE GROUND. Slag gravel over dark grey slightly silty sandy GRAVEL. Sand is fine to coarse. Gravel is angular fine to coarse of slag.	0.20	
0.30-0.30 0.30-0.60 0.30	1 2	ES B PID	1xT+1xJ+1xV 0.2ppm			MADE GROUND. Light pinkish brown sandy GRAVEL with low cobble content. Sand is fine to coarse. Gravel is angular fine to coarse of slag and occasional brick. Cobbles are angular of slag (<30mm x 70mm x 120mm).	(0.50) 0.70	
0.80-1.00	3	B				MADE GROUND. Grey slightly sandy GRAVEL with medium cobble content. Sand is fine to coarse. Gravel is angular fine to coarse of slag. Cobbles are angular of slag (<40mm x 70mm x 100mm).	(0.30) 1.00	
						Trial pit terminated at 1.00m depth.		

Plan (Not to Scale)



General Remarks

1. Trial pit refused at 1.00 m depth.
2. Trial pit remained stable during excavation.
3. Trial pit remained dry during excavation.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**Caterpillar 320**	**RHorne**	JCB

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log TRIAL PIT LOG - A4P | 315075-PROJECT-CRONUS.GPJ - v10_01.
RSK Environment Ltd, The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117 947 1006 Fax: 0117 947 1009 Web: www.rsk.co.uk. | 04/03/22 - 11:15 | SB5 |

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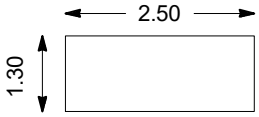
TRIAL PIT LOG

Contract:	Client:	Trial Pit:
Project Cronus	**Tata Steel UK Ltd**	**TP06**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**18.01.22** End: **18.01.22**	**---**	**E:277558.0 N:186030.0**	**1** of **1**

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.20-0.20 0.20	1	ES PID	1xT+1xJ+1xV 0.0ppm			MADE GROUND. Dark brown sandy GRAVEL with medium cobble content. Sand is fine to coarse. Gravel is angular to subrounded fine to coarse of sandstone with abundant brick, concrete and frequent slag. Cobbles are angular of abundant concrete (<40mm x 80mm x 180mm). With various types of anthropogenic material such as metal fragments, metal pipes, rebar, metal cylinders, plastic bags and wood.	(0.40) 0.40	
0.80-0.80 0.80-1.20	2 3	ES B	1xT+1xJ+1xV			MADE GROUND. Dark grey to black sandy GRAVEL with medium cobble content. Sand is fine to coarse. Gravel is angular to subrounded fine to coarse of sandstone with abundant brick, concrete and frequent slag. Cobbles are angular of abundant concrete (<40mm x 80mm x 180mm). With various types of anthropogenic material such as metal fragments, metal pipes, rebar, metal cylinders, plastic bags and wood. Hydrocarbon odour.	(0.80) 1.20	
1.20		PID	0.2ppm			Trial pit terminated at 1.20m depth.		

Plan (Not to Scale)



General Remarks

1. Terminated due to pit refusal.
2. Water seepage at 1.20m depth.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**Wheeled 360° excavator**	**RHorne**	JCB

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log TRIAL PIT LOG - A4P | 315075-PROJECT-CRONUS.GPJ - v10_01.
RSK Environment Ltd, The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117 947 1006 Fax: 0117 947 1009 Web: www.rsk.co.uk. | 04/03/22 - 11:15 | SB5 |

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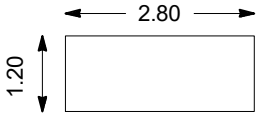
TRIAL PIT LOG

Contract:	Client:	Trial Pit:
Project Cronus	**Tata Steel UK Ltd**	**TP08**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**06.01.22** End: **06.01.22**	**---**	**E:277271.0 N:185943.0**	**1** of **1**

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.20-0.20 0.20	1	ES PID	1xT+1xJ+1xV 0.3ppm			MADE GROUND. Black slightly gravelly slightly silty SAND. Sand is fine. Gravel is angular and subangular fine and medium of slag and sandstone.	(0.35) 0.35	
0.50-0.50 0.50-1.00 0.50	2 3	ES B PID	1xT+1xJ+1xV 0.2ppm	1		MADE GROUND. Brown slightly gravelly silty SAND. Sand is fine. Gravel is subangular fine and medium of sandstone and slag.	(1.25) 1.60	
1.80-2.20 1.90-1.90 1.90	5 4	B ES PID	 1xT+1xJ+1xV 0.8ppm			MADE GROUND: Dark grey locally black slightly gravelly clayey SAND. Sand is fine. Gravel is angular to subrounded fine to coarse of mudstone and slag. With 1 No.metal fragment (<10mm x 40mm x 100mm) and slightly hydrocarbon odour.	(0.90) 2.50	
						Trial pit terminated at 2.50m depth due to being unstable.		

Plan (Not to Scale)



General Remarks

1. Trial pit was unstable below 1.5 m depth.
2. Terminated due to pit unstable.
3. Water seepage at 1.50m depth.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**Wheeled 360° excavator**	**RHorne**	JCB

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log TRIAL PIT LOG - A4P | 315075-PROJECT-CRONUS.GPJ - v10_01.
RSK Environment Ltd, The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117 947 1006 Fax: 0117 947 1009 Web: www.rsk.co.uk. | 04/03/22 - 11:15 | SB5 |

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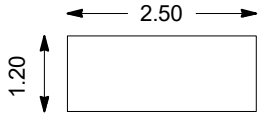
TRIAL PIT LOG

Contract:	Client:	Trial Pit:
Project Cronus	**Tata Steel UK Ltd**	**TP09**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**06.01.22** End: **06.01.22**	**---**	**E:277345.0 N:185769.0**	**1** of **1**

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
						MADE GROUND: Grass over black slightly gravelly slightly silty SAND. Sand is fine. Gravel is angular and subangular fine and medium of slag and sandstone.	(0.30) 0.30	
0.40-0.40 0.40 0.50-1.00	1 2	ES PID B	1xT+1xJ+1xV 0.3ppm	1		MADE GROUND: Brown slightly gravelly SAND with low cobble content. Sand is fine. Gravel is subangular fine and medium of sandstone and slag. Cobbles are angular of concrete (<20mm x 70mm x 80mm).	(1.70) 2.00	
2.10-2.10 2.10-2.50 2.10	3 4	ES B PID	1xT+1xJ+1xV 1.0ppm			MADE GROUND: Dark grey sandy clayey GRAVEL with medium cobble content. Sand is fine to coarse. Gravel is angular and subrounded fine to coarse of slag, brick and mudstone. Cobbles are angular of slag and brick (<30mm x 100mm x 120mm). With hydrocarbon odour.	(0.60) 2.60	
						Trial pit terminated at 2.60m depth.		

Plan (Not to Scale)



General Remarks

1. Trial pit was unstable below 1.5 m depth.
2. Pit terminated due to instability.
3. Water seepage at 2.00m depth.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**Wheeled 360° excavator**	**RHorne**	JCB

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log TRIAL PIT LOG - A4P | 315075-PROJECT-CRONUS.GPJ - v10_01.
RSK Environment Ltd, The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117 947 1006 Fax: 0117 947 1009 Web: www.rsk.co.uk. | 04/03/22 - 11:15 | SB5 |

RSK GEOSCIENCES

RAW FIELD DATA

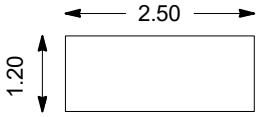
TRIAL PIT LOG

Contract:	Client:	Trial Pit:
Project Cronus	**Tata Steel UK Ltd**	**TP10**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**06.01.22** End: **06.01.22**	**---**	**E:277454.0 N:185860.0**	**1** of **1**

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.20-0.20 0.20 0.30-0.60	1 2	ES PID B	1xT+1xJ+1xV 0.5ppm			MADE GROUND: Grass over black slightly gravelly SAND. Sand is fine. Gravel is angular and subangular fine and medium of slag and sandstone.	0.15	
						MADE GROUND: Dark grey slightly sandy GRAVEL with high cobble content. Sand is fine to coarse. Gravel is angular and subangular fine to coarse of slag and brick. Cobbles are angular of slag and brick (<30mm x 65mm x 90mm). With slight hydrocarbon odour.	(0.45)	
							0.60	
0.70-0.70 0.70-1.20 0.70	3 4 	ES B PID	1xT+1xJ+1xV 0.9ppm			MADE GROUND: Brown locally grey slightly gravelly silty SAND with low cobble content. Sand is fine. Gravel is subangular fine and medium of sandstone and slag. Cobbles are angular of concrete (<20mm x 70mm x 80mm). With slight hydrocarbon odour.	(2.00)	
2.20-2.20 2.20	5	ES PID	 0.9ppm				2.60	
						Trial pit terminated at 2.60m depth.		

Plan (Not to Scale)



General Remarks

1. Trial pit was unstable below 1.00 m depth.
2. Poor stability

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**30T tracked 360° excavator**	**RHorne**	JCB

AGS

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log TRIAL PIT LOG - A4P | 315075-PROJECT-CRONUS.GPJ - v10_01.
RSK Environment Ltd, The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117 947 1006 Fax: 0117 947 1009 Web: www.rsk.co.uk. | 04/03/22 - 11:15 | SB5 |

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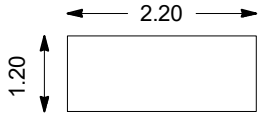
TRIAL PIT LOG

Contract:	Client:	Trial Pit:
Project Cronus	**Tata Steel UK Ltd**	**TP11**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**24.11.21** End: **24.11.21**	**---**	**E:277748.0 N:186220.0**	**1** of **1**

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
				1		MADE GROUND: Dark brown slightly silty sandy GRAVEL with low cobble content. Sand is fine to coarse. Gravel is angular fine to coarse of concrete, clinker and slag.		
0.30-0.30	1	ES	1xT+1xJ+1xV				(0.80)	
0.30-0.60	2	B						
0.30		PID	0.1ppm			. . . 0.50m to 0.55m; 1 No. Metal rod.		
						. . . 0.70m to 0.80m; dark reddish brown.	0.80	
						MADE GROUND: Dark brown sandy GRAVEL with low cobble content. Sand is fine to coarse. Gravel is angular fine to coarse of slag and occasional brick.		
1.00-1.50	4	B						
1.30-1.30	3	ES	1xT+1xJ+1xV				(1.50)	
1.30		PID	0.1ppm					
1.80-1.90	5	B				. . . 1.80m to 1.90m; layer of slag.		
2.20-2.20	6	ES	1xT+1xJ+1xV	1			2.30	
2.20		PID	0.1ppm			Trial pit terminated at 2.30m depth.		

Plan (Not to Scale)



General Remarks

1. Stopped due to water ingress.
2. Water seepage at 2.20m depth.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**Wheeled 360° excavator**	**RHorne**	JCB

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log TRIAL PIT LOG - A4P | 315075-PROJECT-CRONUS.GPJ - v10_01.
RSK Environment Ltd, The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117 947 1006 Fax: 0117 947 1009 Web: www.rsk.co.uk. | 04/03/22 - 11:15 | SB5 |

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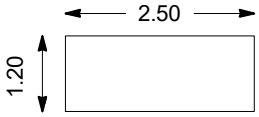
TRIAL PIT LOG

Contract:	Client:	Trial Pit:
Project Cronus	**Tata Steel UK Ltd**	**TP12**

Contract Ref:	Start: **03.12.21**	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	End: **03.12.21**	**---**	**E:277535.0 N:186237.0**	**1** of **1**

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
						MADE GROUND: Dark grey slightly silty sandy GRAVEL. Sand is fine to coarse. Gravel is angular and subangular fine to coarse of slag. With occasional metal pellets (<20mm x 20mm x 25mm).	0.20	
0.30-0.30 0.30-0.70 0.30	1 2	ES B PID	1xT+1xJ+1xV 0.3ppm			MADE GROUND: Dark grey to black sandy GRAVEL. Sand is fine to coarse. Gravel is angular fine to coarse of slag and occasional brick.	(0.50) 0.70	
0.70-0.90	3	B				MADE GROUND: Grey slightly sandy GRAVEL with high cobble content. Sand is fine to coarse. Gravel is angular fine to coarse of slag. Cobbles are angular of slag (<60mm x 90mm x 100mm).	0.90	
						Trial pit terminated at 0.90m depth.		

Plan (Not to Scale)



General Remarks

1. Trial pit refused at 0.90m depth.
2. Trial pit remained dry and stable during excavation.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**Caterpillar 320**	**RHorne**	JCB

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log TRIAL PIT LOG - A4P | 315075-PROJECT-CRONUS.GPJ - v10_01.
RSK Environment Ltd, The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117 947 1006 Fax: 0117 947 1009 Web: www.rsk.co.uk. | 04/03/22 - 11:15 | SB5 |

RSK GEOSCIENCES

RAW FIELD DATA

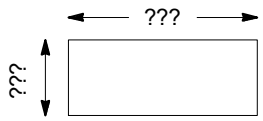
TRIAL PIT LOG

Contract:	Client:	Trial Pit:
Project Cronus	**Tata Steel UK Ltd**	**TP13**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**03.12.21** End: **03.12.21**	**---**	**E:277675.0 N:186174.0**	**1** of **1**

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
						MADE GROUND: Dark grey slightly silty sandy GRAVEL. Sand is fine to coarse. Gravel is angular and subangular fine to coarse of slag. With occasional metal pellets (<20mm x 20mm x 20mm).	0.20	
0.30-0.30 0.30	1	ES PID	1xT+1xJ+1xV 0.1ppm			MADE GROUND: Grey sandy GRAVEL with low cobble content. Sand is fine to coarse. Gravel is angular fine to coarse of slag and occasional brick. Cobbles are angular of slag and occasional brick (<60mm x 120mm x 160mm). With rare large metal sheets (<5mm x 250mm x 300mm).	(1.50)	
0.50-1.00	2	B						
1.50-1.50 1.50-1.70 1.50	3 4	ES B PID	1xT+1xJ+1xV 0.1ppm				1.70	
						MADE GROUND: Grey slightly sandy GRAVEL with high cobble content. Sand is fine to coarse. Gravel is angular fine to coarse of slag and occasional brick. Cobbles are angular of slag and occasional brick (<80mm x 190mm x 200mm).	(1.30)	
2.50-2.50 2.50-3.00 2.50	5 6	ES B PID	1xT+1xJ+1xV 0.3ppm	≈			3.00	
						Trial pit terminated at 3.00m depth.		

Plan (Not to Scale)



General Remarks

1. Trial pit refused at 3.00m depth.
2. Trial pit remained dry and stable during excavation.
3. Slow digging due to compact ground.
4. Water seepage at 2.90m depth.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**Caterpillar 320**	**RHorne**	JCB

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log TRIAL PIT LOG - A4P | 315075-PROJECT-CRONUS.GPJ - v10_01.
RSK Environment Ltd, The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117 947 1006 Fax: 0117 947 1009 Web: www.rsk.co.uk. | 04/03/22 - 11:15 | SB5 |

RAW FIELD DATA

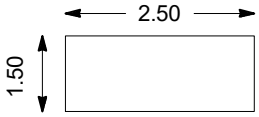
TRIAL PIT LOG

Contract:	Client:	Trial Pit:
Project Cronus	**Tata Steel UK Ltd**	**TP14**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**03.12.21** End: **03.12.21**	**---**	**E:277730.0 N:186026.0**	**1** of **1**

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
						MADE GROUND: Pinkish brown gravelly silty SAND. Sand is fine to coarse. Gravel is angular fine to coarse of slag.	0.20	
0.30-0.30 0.30-0.60 0.30	1 2	ES B PID	1xT+1xJ+1xV 0.1ppm			MADE GROUND: Dark grey sandy GRAVEL with high cobble content. Sand is fine to coarse. Gravel is angular and subangular fine to coarse of slag and occasional brick. Cobbles are angular of slag (<50mm x 180mm 210mm).		
0.60-0.80	3	B						
						. . . 1.10m to 1.30m; 1No. Redundant pipe running SE-NW at North end of pit.	(2.30)	
2.00-2.00 2.00-2.50 2.00	4 5	ES B PID	1xT+1xJ+1xV 0.4ppm					
							2.50	
						Trial pit terminated at 2.50m depth.		

Plan (Not to Scale)



General Remarks

1. Trial pit refused at 2.50m depth.
2. Trial pit remained dry and stable during excavation.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**Caterpillar 320**	**RHorne**	JCB

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log TRIAL PIT LOG - A4P | 315075-PROJECT-CRONUS.GPJ - v10_01.
RSK Environment Ltd, The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117 947 1006 Fax: 0117 947 1009 Web: www.rsk.co.uk. | 04/03/22 - 11:15 | SB5 |

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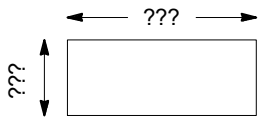
TRIAL PIT LOG

Contract:	Client:	Trial Pit:
Project Cronus	**Tata Steel UK Ltd**	**TP15**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**02.12.21** End: **02.12.21**	**---**	**E:277819.0 N:186051.0**	**1** of **1**

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.20-0.20 0.20-0.50 0.20	1 2	ES B PID	1xT+1xJ+1xV 0.0ppm			MADE GROUND: Grey sandy GRAVEL with medium cobble. Sand is fine to coarse. Gravel is angular fine to coarse of slag and occasional brick. Cobbles are angular of slag (<30mm x 90mm x 200mm)	(0.50) 0.50	
						Trial pit refused at 0.50m depth.		

Plan (Not to Scale)



General Remarks

1. Trial pit refused at 0.50m depth.
2. Trial pit remained dry and stable during excavation.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**Caterpillar 320**	**RHorne**	JCB

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log TRIAL PIT LOG - A4P | 315075-PROJECT-CRONUS.GPJ - v10_01.
RSK Environment Ltd, The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117 947 1006 Fax: 0117 947 1009 Web: www.rsk.co.uk. | 04/03/22 - 11:15 | SB5 |

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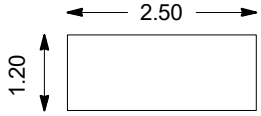
TRIAL PIT LOG

Contract:	Client:	Trial Pit:
Project Cronus	**Tata Steel UK Ltd**	**TP16**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**24.11.21** End: **24.11.21**	**---**	**E:277773.0 N:185928.0**	**1** of **1**

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.50-0.50 0.50-1.00 0.50	1 2	ES B PID	1xT+1xJ+1xV 0.3ppm			MADE GROUND: Light grey sandy GRAVEL. Sand is fine to coarse. Gravel is angular and subangular fine to coarse of slag. With occasional metal pellets and 1 No. Metal piece possible old handrail (<20mm x 300mm x 400mm)	(0.30)	
						0.30		
						. . . 0.15m to 0.18m; light grey silty sandy gravel.		
						MADE GROUND: Dark grey slightly silty sandy GRAVEL with low cobble content. Sand is fine to coarse. Gravel is angular and subangular fine to coarse of slag and concrete. Cobbles are angular of slag (<30mm x 95mm x 190mm).	(0.75)	
						1.05		
						. . . 1.00m to 1.05m; 1 No. redundant metal pipe running east-west along pit.		
						Trial pit terminated at 1.05m depth.		

Plan (Not to Scale)



General Remarks

1. Trial pit remained dry and stable during excavation.
2. Terminated due to redundant pipe.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**Wheeled 360° excavator**	**RHorne**	JCB

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log TRIAL PIT LOG - A4P | 315075-PROJECT-CRONUS.GPJ - v10_01.
RSK Environment Ltd, The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117 947 1006 Fax: 0117 947 1009 Web: www.rsk.co.uk. | 04/03/22 - 11:15 | SB5 |

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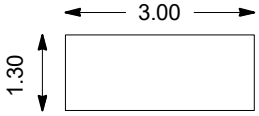
TRIAL PIT LOG

Contract:	Client:	Trial Pit:
Project Cronus	**Tata Steel UK Ltd**	**TP19**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**07.01.22** End: **07.01.22**	**---**	**E:277572.0 N:185980.0**	**1** of **1**

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.20-0.20	1	ES	1xT+1xJ+1xV	1		MADE GROUND: Dark grey sandy GRAVEL with medium cobble content. Sand is fine to coarse. Gravel is angular fine to coarse of slag, brick and concrete. Cobbles are angular of slag and brick (<30mm x 100mm x 120mm). With occasional wood and metal fragments (<10mm x 40mm x 180mm).	(0.30) 0.30	
0.50-0.50	2	ES	1xT+1xJ+1xV			MADE GROUND: Grey slightly sandy GRAVEL with high cobble content. Sand is fine to coarse. Gravel is angular fine to coarse of slag. Cobbles are angular of slag and occasional brick.	(1.20) 1.50	
0.50-1.00	3	B						
2.00-2.50	4	B	1xT+1xJ+1xV	1		MADE GROUND: Grey gravelly COBBLES with medium boulder content. Gravel is angular fine to coarse of slag. Cobbles are angular of slag (<70mm x 180mm x 200mm). Boulders are angular of slag (<300mm x 450mm x 460mm). With slight hydrocarbon odour.	(1.10) 2.60	
						Trial pit terminated at 2.60m depth.		

Plan (Not to Scale)



General Remarks

1. Trial pit was unstable below 1.50 m depth.
2. LNAPL seen on water surface.
3. Terminated due to water ingress and pit instability.
4. Water seepage at 2.00m depth.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**Wheeled 360° excavator**	**RHorne**	JCB

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log TRIAL PIT LOG - A4P | 315075-PROJECT-CRONUS.GPJ - v10_01.
RSK Environment Ltd, The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117 947 1006 Fax: 0117 947 1009 Web: www.rsk.co.uk. | 04/03/22 - 11:15 | SB5 |

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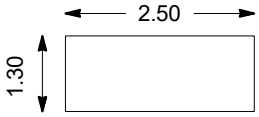
TRIAL PIT LOG

Contract:	Client:	Trial Pit:
Project Cronus	**Tata Steel UK Ltd**	**TP20**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**07.01.22** End: **07.01.22**	**---**	**E:277634.0 N:186035.0**	**1** of **1**

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.20-0.20 0.20	1	ES PID	1xT+1xJ+1xV 0.2ppm			MADE GROUND: Dark grey sandy GRAVEL with medium cobble content. Sand is fine to coarse. Gravel is angular fine to coarse of slag, brick and concrete. Cobbles are angular of slag and brick (<30mm x 100mm x 120mm). With occasional metal fragments (<30mm x 40mm x 180mm).	(0.30) 0.30	
0.50-0.50 0.50-1.00 0.50	2 3	ES B PID	1xT+1xJ+1xV 0.2ppm			MADE GROUND: Light brown sandy GRAVEL with low cobble content. Sand is fine to coarse. Gravel is angular fine to coarse of slag and brick. Cobbles are angular of slag and occasional brick (<30mm x 70mm x 120mm).	(0.90) 1.20	
1.30-1.30 1.30-1.80 1.30	4 5	ES B PID	1xT+1xJ+1xV 0.0ppm			MADE GROUND: Yellowish brown slightly gravelly SAND. Sand is fine to coarse. Gravel is angular and subangular fine to coarse of slag. . . . 1.50m to 1.70m; band of coarse slag gravel.	(1.30) 2.50	
						Trial pit terminated at 2.50m depth.		

Plan (Not to Scale)



General Remarks

1. Trial pit was unstable below 1.50 m depth.
2. Terminated due to pit instability.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**Wheeled 360° excavator**	**RHorne**	JCB

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log TRIAL PIT LOG - A4P | 315075-PROJECT-CRONUS.GPJ - v10_01.
RSK Environment Ltd, The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117 947 1006 Fax: 0117 947 1009 Web: www.rsk.co.uk. | 04/03/22 - 11:15 | SB5 |

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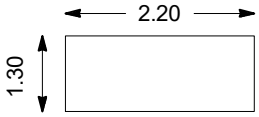
TRIAL PIT LOG

Contract:	Client:	Trial Pit:
Project Cronus	**Tata Steel UK Ltd**	**TP21**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**07.01.22** End: **07.01.22**	**---**	**E:277523.0 N:185829.0**	**1** of **1**

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.20-0.20 0.20	1	ES PID	1xT+1xJ+1xV 0.3ppm	1		MADE GROUND: Grass over black gravelly SAND. Sand is fine. Gravel is angular and subangular fine and medium of slag and concrete.	(0.30) 0.30	
0.40-0.40 0.40 0.50-1.00	2 3	ES PID B	1xT+1xJ+1xV 0.7ppm			MADE GROUND: Dark grey sandy GRAVEL with medium cobble content. Sand is fine. Gravel is angular and subangular fine and medium of slag, brick and concrete. Cobbles are angular of slag (<30mm x 100mm x 180mm).	(1.30) 1.60	
1.70-2.00 1.70-1.70 1.70	4 5 	B ES PID	 1xT+1xJ+1xV 0.5ppm	1		MADE GROUND: Soft dark grey mottled orange slightly sandy gravelly CLAY. Sand is fine to coarse. Gravel is angular fine to coarse of sandstone and abundant slag.	(0.40) 2.00	
						Trial pit terminated at 2.00m depth.		

Plan (Not to Scale)



General Remarks

1. Terminated due to water ingress.
2. Water strike at 1.80m depth.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**Wheeled 360° excavator**	**RHorne**	JCB

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log TRIAL PIT LOG - A4P | 315075-PROJECT-CRONUS.GPJ - v10_01.
RSK Environment Ltd, The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117 947 1006 Fax: 0117 947 1009 Web: www.rsk.co.uk. | 04/03/22 - 11:16 | SB5 |

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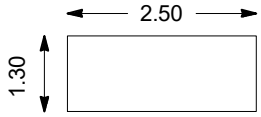
TRIAL PIT LOG

Contract:	Client:	Trial Pit:
Project Cronus	**Tata Steel UK Ltd**	**TP22**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**07.01.22** End: **07.01.22**	**---**	**E:277603.0 N:185742.0**	**1** of **1**

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
				1		MADE GROUND: Grass over black gravelly SAND. Sand is fine. Gravel is angular and subangular fine and medium of slag and concrete.	0.15	
0.20-0.20 0.20-0.70 0.20	1 2	ES B PID	1xT+1xJ+1xV 0.3ppm			MADE GROUND: Dark grey sandy GRAVEL with low cobble content. Sand is fine. Gravel is angular and subangular fine and medium of slag, brick and concrete. Cobbles are angular of slag (<35mm x 110mm x 160mm).	(1.45)	
				1			1.60	
2.00-2.00 2.00-2.50 2.00	3 4	ES B PID	1xT+1xJ+1xV 0.7ppm			MADE GROUND: Soft dark grey mottled orange slightly sandy gravelly CLAY. Sand is fine to coarse. Gravel is angular fine to coarse of sandstone and slag. With slight hydrocarbon odour.	(1.00)	
							2.60	
						Trial pit terminated at 2.60m depth.		

Plan (Not to Scale)



General Remarks

1. Trial pit remained stable during excavation.
2. Terminated due to water ingress.
3. Water strike at 1.60m depth.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**Wheeled 360° excavator**	**RHorne**	JCB

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log TRIAL PIT LOG - A4P | 315075-PROJECT-CRONUS.GPJ - v10_01.
RSK Environment Ltd, The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117 947 1006 Fax: 0117 947 1009 Web: www.rsk.co.uk. | 04/03/22 - 11:16 | SB5 |

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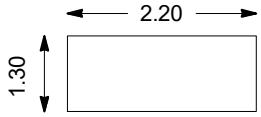
TRIAL PIT LOG

Contract:	Client:	Trial Pit:
Project Cronus	**Tata Steel UK Ltd**	**TP23**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**07.01.22** End: **07.01.22**	**---**	**E:277476.0 N:185635.0**	**1** of **1**

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.20-0.20	1	ES	1xT+1xJ+1xV	1		MADE GROUND: Grass over black sandy GRAVEL. Sand is fine. Gravel is angular and subangular fine and medium of slag, brick coal and concrete.	(0.50)	
0.20-0.50	2	B						
0.20		PID	0.1ppm					
							0.50	
0.50-0.50	3	ES	1xT+1xJ+1xV			MADE GROUND: Dark grey sandy GRAVEL with medium cobble content. Sand is fine. Gravel is angular and subangular fine and medium of slag, brick and concrete. Cobbles are angular of slag (<40mm x 110mm x 190mm).		
0.50		PID	0.7ppm					
							(1.00)	
1.00-1.30	4	B		1				
							1.50	
						Trial pit terminated at 1.50m depth.		

Plan (Not to Scale)



General Remarks

1. Pit terminated due to water ingress.
2. Water seepage at 1.20m depth.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**Wheeled 360° excavator**	**RHorne**	JCB

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log TRIAL PIT LOG - A4P | 315075-PROJECT-CRONUS.GPJ - v10_01.
RSK Environment Ltd, The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117 947 1006 Fax: 0117 947 1009 Web: www.rsk.co.uk. | 04/03/22 - 11:16 | SB5 |

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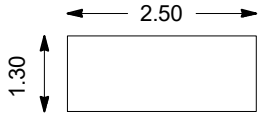
TRIAL PIT LOG

Contract:	Client:	Trial Pit:
Project Cronus	**Tata Steel UK Ltd**	**TP25**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**17.01.22** End: **17.01.22**	**---**	**E:277705.0 N:185752.0**	**1** of **1**

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.20-0.20 0.20-0.70 0.20	1 2	ES B PID	1xT+1xJ+1xV 0.1ppm			MADE GROUND: Dark grey slightly sandy GRAVEL with high cobble content. Sand is fine to coarse. Gravel is angular and subangular fine to coarse of abundant slag and occasional brick. Cobbles are angular of abundant slag and rare brick (<30mm x 85mm x 130mm).	(1.20) 1.20	
						Trial pit terminated at 1.20m depth.		

Plan (Not to Scale)



General Remarks

1. Terminated due to pit refusal.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**Wheeled 360° excavator**	**RHorne**	JCB

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log TRIAL PIT LOG - A4P | 315075-PROJECT-CRONUS.GPJ - v10_01.
RSK Environment Ltd, The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117 947 1006 Fax: 0117 947 1009 Web: www.rsk.co.uk. | 04/03/22 - 11:16 | SB5 |

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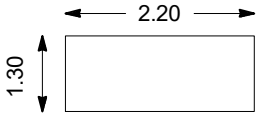
TRIAL PIT LOG

Contract:	Client:	Trial Pit:
Project Cronus	**Tata Steel UK Ltd**	**TP26**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**17.01.22** End: **17.01.22**	**---**	**E:277670.0 N:185712.0**	**1** of **1**

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.20-0.20 0.20-0.70 0.20	1 2	ES B PID	1xT+1xJ+1xV 0.6ppm	1		MADE GROUND: Dark grey to black sandy GRAVEL with low cobble content. Sand is fine to coarse. Gravel is angular and subangular fine to coarse of abundant slag. Cobbles are angular of abundant slag (<20mm x 80mm x 150mm).	(0.90) 0.90	
1.00-1.50	3	B				MADE GROUND: Dark grey locally yellowish brown sandy clayey GRAVEL with low cobble content. Sand is fine to coarse, predominantly fine and medium. Gravel is angular and subangular fine to coarse of sandstone and abundant slag. Cobbles are angular of abundant slag (30mm x 70mm x 120mm). With rare pockets of grey silty CLAY. With hydrocarbon odour.		
1.50-1.50 1.50	4	ES PID	1xT+1xJ+1xV 2.0ppm				(1.80) 2.70	
2.70-2.70 2.70-3.20 2.70	5 6	ES B PID	1xT+1xJ+1xV 1.1ppm	1		MADE GROUND (Reworked clay). Firm to stiff dark grey slightly sandy slightly gravelly silty CLAY. Sand is fine to coarse. Gravel is angular and subangular fine to coarse of sandstone and abundant slag. With hydrocarbon odour.	(0.60) 3.30	
						Trial pit terminated at 3.30m depth.		

Plan (Not to Scale)



General Remarks

1. Terminated due to water ingress.
2. Water seepage at 2.70m depth.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**Wheeled 360° excavator**	**RHorne**	JCB

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log TRIAL PIT LOG - A4P | 315075-PROJECT-CRONUS.GPJ - v10_01.
RSK Environment Ltd, The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117 947 1006 Fax: 0117 947 1009 Web: www.rsk.co.uk. | 04/03/22 - 11:16 | SB5 |

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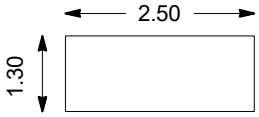
TRIAL PIT LOG

Contract:	Client:	Trial Pit:
Project Cronus	**Tata Steel UK Ltd**	**TP27**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**17.01.22** End: **17.01.22**	**---**	**E:277758.0 N:185737.0**	**1** of **1**

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.20-0.20 0.20-0.70 0.20	1 2	ES B PID	1xT+1xJ+1xV 0.2ppm			MADE GROUND: Slag.	0.05	
						MADE GROUND: Dark grey sandy GRAVEL with low cobble content. Sand is fine to coarse. Gravel is angular and subangular fine to coarse of abundant slag. Cobbles are angular of abundant slag and rare brick (<30mm x 65mm x 120mm). With metal wire (<3mm x 3mm x 200mm).	(0.95)	
						Trial pit terminated at 1.00m depth.	1.00	

Plan (Not to Scale)



General Remarks

1. Terminated due to pit refusal.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**Wheeled 360° excavator**	**RHorne**	JCB

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log TRIAL PIT LOG - A4P | 315075-PROJECT-CRONUS.GPJ - v10_01.
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RSK GEOSCIENCES

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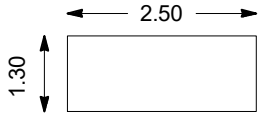
TRIAL PIT LOG

Contract:	Client:	Trial Pit:
Project Cronus	**Tata Steel UK Ltd**	**TP28**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**17.01.22** End: **17.01.22**	**---**	**E:277648.0 N:185633.0**	**1** of **1**

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.20-0.20 0.20-0.70 0.20	1 2	ES B PID	1xT+1xJ+1xV 0.3ppm	1		MADE GROUND: Dark grey to black slighty sandy GRAVEL with low cobble content. Sand is fine to coarse. Gravel is angular and subangular fine to coarse of abundant slag. Cobbles are angular of abundant (<50mm x 90mm x 140mm). With rare metal wire (<20mm x 20mm x 80mm).	(0.90) 0.90	
1.00-1.00 1.00 1.10-1.50	3 4	ES PID B	1xT+1xJ+1xV 0.3ppm			MADE GROUND: Dark grey locally yellowish brown sandy clayey GRAVEL with low cobble content. Sand is fine to coarse, predominantly fine and medium. Gravel is angular and subangular fine to coarse of sandstone and abundant slag. Cobbles are angular of abundant slag (30mm x 70mm x 120mm).	(1.30) 2.20	
2.50-2.50 2.50-2.60 2.50	5 6	ES D PID	1xT+1xJ+1xV 0.1ppm	1		Stiff grey silty locally gravelly CLAY. Gravel is angular fine to coarse of sandstone. . . . 2.20m to 2.50m; possibly Reworked clay.	(1.10) 3.30	
						Trial pit terminated at 3.30m depth.		

Plan (Not to Scale)



General Remarks

1. Terminated due to water ingress.
2. Water seepage at 2.20m depth.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**Wheeled 360° excavator**	**RHorne**	JCB

AGS

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log TRIAL PIT LOG - A4P | 315075-PROJECT-CRONUS.GPJ - v10_01.
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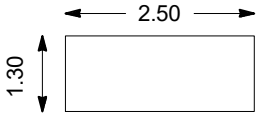
TRIAL PIT LOG

Contract:	Client:	Trial Pit:
Project Cronus	**Tata Steel UK Ltd**	**TP29**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**17.01.22** End: **17.01.22**	**---**	**E:277723.0 N:185709.0**	**1** of **1**

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.20-0.20 0.20-0.70 0.20	1 2	ES B PID	1xT+1xJ+1xV 0.3ppm			MADE GROUND: Dark greyish brown slighty silty sandy GRAVEL with low cobble content. Sand is fine to coarse. Gravel is angular and subangular fine to coarse of abundant slag, concrete and brick. Cobbles are angular of abundant slag and rare brick (<30mm x 85mm x 140mm).	(1.80) 1.80	
1.90-1.90 1.90-2.10 1.90	3 4	ES B PID	1xT+1xJ+1xV 0.6ppm			MADE GROUND: Dark grey sandy GRAVEL with low cobble content. Sand is fine to coarse. Gravel is angular and subangular fine to coarse of abundant slag. Cobbles are angular of abundant slag and rare brick (<30mm x 65mm x 120mm).	(0.30) 2.10	

Plan (Not to Scale)



General Remarks

1. Terminated due to pit refusal.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**Wheeled 360° excavator**	**RHorne**	JCB

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log TRIAL PIT LOG - A4P | 315075-PROJECT-CRONUS.GPJ - v10_01.
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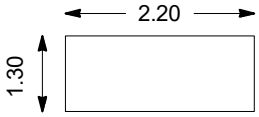
TRIAL PIT LOG

Contract:	Client:	Trial Pit:
Project Cronus	**Tata Steel UK Ltd**	**TP30**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**17.01.22** End: **17.01.22**	**---**	**E:277644.0 N:185580.0**	**1** of **1**

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.20-0.20 0.20-0.70 0.20	1 2	ES B PID	1xT+1xJ+1xV 0.2ppm			MADE GROUND: Dark grey to black slighty sandy GRAVEL with low cobble content. Sand is fine to coarse. Gravel is angular and subangular fine to coarse of abundant slag. Cobbles are angular of abundant (<50mm x 100mm x 130mm).	(1.10) 1.10	
1.20-1.70	3	B				MADE GROUND: Dark grey locally yellowish brown sandy clayey GRAVEL with low cobble content. Sand is fine to coarse. Gravel is angular and subangular fine to coarse of abundant slag. Cobbles are angular of abundant slag.		
1.70-1.70 1.70	4	ES PID	 0.2ppm	≈		. . . 2.00m to 2.40mm; pocket of stiff grey gravelly clay.	(1.70) 2.80	

Plan (Not to Scale)



General Remarks

1. Terminated due to pit refusal.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**Wheeled 360° excavator**	**RHorne**	JCB

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log TRIAL PIT LOG - A4P | 315075-PROJECT-CRONUS.GPJ - v10_01.
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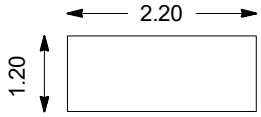
TRIAL PIT LOG

Contract:	Client:	Trial Pit:
Project Cronus	**Tata Steel UK Ltd**	**TP31**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**17.01.22** End: **17.01.22**	**---**	**E:277828.0 N:185588.0**	**1** of **1**

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.20-0.20 0.20-0.70 0.20	1 2	ES B PID	1xT+1xJ+1xV 0.8ppm			MADE GROUND: Dark grey to black slighty sandy GRAVEL with low cobble and boulder content. Sand is fine to coarse. Gravel is angular and subangular fine to coarse of abundant slag. Cobbles and boulders are angular of abundant slag (<200mm x 290mm x 400mm). With rare plastic bag (<1mm x 20mm x 80mm).	(0.70) 0.70	

Plan (Not to Scale)



General Remarks

1. Terminated due to pit refusal.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**Wheeled 360° excavator**	**RHorne**	JCB

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log TRIAL PIT LOG - A4P | 315075-PROJECT-CRONUS.GPJ - v10_01.
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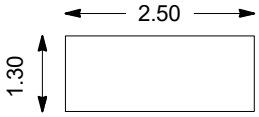
TRIAL PIT LOG

Contract:	Client:	Trial Pit:
Project Cronus	**Tata Steel UK Ltd**	**TP34**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**14.01.22** End: **14.01.22**	**---**	**E:277953.0 N:185632.0**	**1** of **1**

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.20-0.20 0.20-0.70 0.20	1 2	ES B PID	1xT+1xJ+1xV 0.1ppm			MADE GROUND: Dark grey sandy GRAVEL with medium cobble content. Sand is fine to coarse. Gravel is angular fine to coarse of sandstone with abundant slag and brick. Cobbles are angular of slag (<60mm x 90mm x 160mm). With rare metal fragments (<20mm x 50mm x 250mm).	(1.40) 1.40	

Plan (Not to Scale)



General Remarks

1. Terminated due to refusal at 1.40m.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**Wheeled 360° excavator**	**RHorne**	JCB

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log TRIAL PIT LOG - A4P | 315075-PROJECT-CRONUS.GPJ - v10_01.
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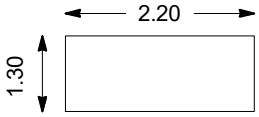
TRIAL PIT LOG

Contract:	Client:	Trial Pit:
Project Cronus	**Tata Steel UK Ltd**	**TP42**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**10.01.22** End: **10.01.22**	**---**	**E:278434.0 N:185381.0**	**1** of **1**

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.10-0.10 0.10	1	ES PID	1xT+1xJ+1xV 0.0ppm			TOPSOIL. Grass over sofy brown slightly sandy CLAY. Sand is fine. With abundant rootlets (2mm x 8mm).	0.20	
						Soft greyish brown silty CLAY.	(0.30) 0.50	
						Soft slightly sandy silty CLAY. Sand is fine.		
1.00-1.50	2	B					(1.00) 1.50	
1.50-1.50 1.50	3	ES PID	1xT+1xJ+1xV 0.0ppm			Soft to firm blueish grey silty CLAY with frequent decaying rootlets (<1mm x 8mm).	(2.00) 3.50	
						Trial pit terminated at 3.50m depth.		

Plan (Not to Scale)



General Remarks

1. Trial pit was unstable below 1.50 m depth.
2. Both sides collapsed after 10 minutes being left open.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**13 Ton Tracked Excavator**	**RHorne**	JCB

AGS

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log TRIAL PIT LOG - A4P | 315075-PROJECT-CRONUS.GPJ - v10_01.
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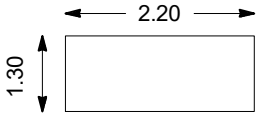
TRIAL PIT LOG

Contract:	Client:	Trial Pit:
Project Cronus	**Tata Steel UK Ltd**	**TP43**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**10.01.22** End: **10.01.22**	**---**	**E:278478.0 N:185325.0**	**1** of **1**

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.10		PID	0.0ppm			TOPSOIL. Grass over soft brown slightly sandy CLAY. Sand is fine. With abundant rootlets (2mm x 10mm).	0.25	
0.30-0.30	1	ES	1xT+1xJ+1xV			Soft greyish brown silty CLAY.	0.50	
0.50-1.00	2	B				Firm brownish grey silty CLAY.	(1.00)	
1.00-1.00 1.00	3	ES PID	1xT+1xJ+1xV 0.0ppm				1.50	
2.00-2.25	4	B		1		Soft brownish grey to blueish grey sandy SILT. Sand is fine. . . . 2.25m to 3.50m; blueish grey.	(2.00)	
3.00-3.50	5	B					3.50	
3.50-3.50 3.50	6	ES PID	1xT+1xJ+1xV 0.0ppm			Trial pit terminated at 3.50m depth.		

Plan (Not to Scale)



General Remarks

1. Trial pit was unstable below 1.50 m depth.
2. Water seepage at 2.00m depth.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**13 Ton Tracked Excavator**	**RHorne**	JCB

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log TRIAL PIT LOG - A4P | 315075-PROJECT-CRONUS.GPJ - v10_01.
RSK Environment Ltd, The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117 947 1006 Fax: 0117 947 1009 Web: www.rsk.co.uk. | 04/03/22 - 11:16 | SB5 |

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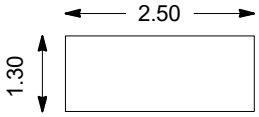
TRIAL PIT LOG

Contract:	Client:	Trial Pit:
Project Cronus	**Tata Steel UK Ltd**	**TP44**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**10.01.22** End: **10.01.22**	**---**	**E:278404.0 N:185269.0**	**1** of **1**

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
						TOPSOIL. Grass over sofy brown slightly sandy CLAY. Sand is fine.	0.25	
0.30-0.30 0.30-0.50 0.30	1 2	ES B PID	1xT+1xJ+1xV 0.0ppm			Soft greyish brown silty CLAY.	0.50	
1.50-2.00	4	B				Firm brownish grey silty CLAY.	(1.40) 1.90	
2.00-2.00 2.00	3	ES PID	0.0ppm	≈		Soft greyish brown to blueish grey CLAY. With abundant decaying rootlets (<1mm x 6mm). . . . 2.20m to 3.50m; blueish grey.	(1.60) 3.50	
3.00-3.50	6	B						
3.50-3.50 3.50	5	ES PID	1xT+1xJ+1xV 0.0ppm			Trial pit terminated at 3.50m depth.		

Plan (Not to Scale)



General Remarks

1. Water seepage at 2.00m depth.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**13 Ton Tracked Excavator**	**RHorne**	JCB

AGS

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log TRIAL PIT LOG - A4P | 315075-PROJECT-CRONUS.GPJ - v10_01.
RSK Environment Ltd, The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117 947 1006 Fax: 0117 947 1009 Web: www.rsk.co.uk. | 04/03/22 - 11:16 | SB5 |

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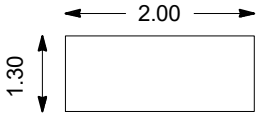
TRIAL PIT LOG

Contract:	Client:	Trial Pit:
Project Cronus	**Tata Steel UK Ltd**	**TP45**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**11.01.22** End: **11.01.22**	**---**	**E:278297.0 N:185227.0**	**1** of **1**

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.10-0.10 0.10	1	ES PID	1xT+1xJ+1xV 0.1ppm			TOPSOIL. Grass over sofy brown slightly sandy CLAY. Sand is fine. With abundant rootlets (2mm x 10mm).	0.15	
						Soft greyish brown mottled orange silty CLAY.	(0.35)	
							0.50	
0.70-0.70	2	D				Soft to firm grey mottled orange CLAY.	(1.50)	
							2.00	
2.50-2.50	3	D		≈		Soft to firm blueish grey silty CLAY. With frequent decaying rootlets (<2mm x 8mm).	(1.50)	
3.00-3.00 3.00	4	ES PID	1xT+1xJ+1xV 0.1ppm				3.50	
						Trial pit terminated at 3.50m depth.		

Plan (Not to Scale)



General Remarks

1. Trial pit was unstable below 2.0 m depth.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**Wheeled 360° excavator**	**RHorne**	JCB

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log TRIAL PIT LOG - A4P | 315075-PROJECT-CRONUS.GPJ - v10_01.
RSK Environment Ltd, The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117 947 1006 Fax: 0117 947 1009 Web: www.rsk.co.uk. | 04/03/22 - 11:16 | SB5 |

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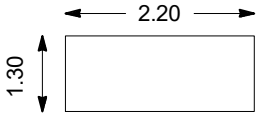
TRIAL PIT LOG

Contract:	Client:	Trial Pit:
Project Cronus	**Tata Steel UK Ltd**	**TP46**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**11.01.22** End: **11.01.22**	**---**	**E:278166.0 N:185153.0**	**1** of **1**

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
						TOPSOIL. Grass over sofy brown slightly sandy CLAY. Sand is fine. With abundant rootlets (2mm x 10mm).	0.15	
0.20-0.20 0.20	1	ES PID	1xT+1xJ+1xV 0.2ppm			Soft light greyish brown mottled orangish brown silty CLAY.	(0.35) 0.50	
1.00-1.00	2	D		≈		Soft to firm brownish grey to blueish grey silty CLAY. With frequent decaying rootlets (<1mm x 9mm).	(2.70)	
1.50-1.50 1.50	3	ES PID	0.1ppm					
						. . . 2.00m to 3.50m; blueish grey.		
2.50-2.50	4	D						
3.00-3.00 3.00	5	ES PID	0.1ppm				3.20	

Plan (Not to Scale)



General Remarks

1. Trial pit was unstable below 1 m depth.
2. Terminated due to instability.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**Wheeled 360° excavator**	**RHorne**	JCB

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log TRIAL PIT LOG - A4P | 315075-PROJECT-CRONUS.GPJ - v10_01.
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RAW FIELD DATA

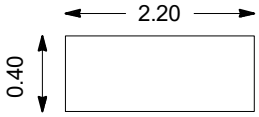
TRIAL PIT LOG

Contract:	Client:	Trial Pit:
Project Cronus	**Tata Steel UK Ltd**	**TP47**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**11.01.22** End: **11.01.22**	**---**	**E:278078.0 N:185161.0**	**1** of **1**

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.10-0.10 0.10	1	ES PID	1xT+1xJ+1xV 0.0ppm			TOPSOIL. Grass over sofy brown slightly sandy CLAY. Sand is fine. With abundant rootlets (3mm x 20mm).	0.15	
0.30-0.30	2	D				Soft to firm light greyish brown mottled orange silty CLAY.	(0.35) 0.50	
1.50-1.50 1.50-2.00 1.50	3 4	ES B PID	1xT+1xJ+11xV 0.0ppm	1		Firm brownish grey mottled orange slightly sandy silty CLAY. Sand is fine. With occasional pocket of silty fine Sand (<30mm x 60mm x 100mm).	(1.50) 2.00	
3.00-3.00	5	D				Soft blueish grey silty CLAY. With frequent decaying rootlets (3mm x 12mm).	(1.20) 3.20	
3.20-3.20 3.20	6	ES PID	1xT+1xJ+1xV 0.0ppm					

Plan (Not to Scale)



General Remarks

1. Trial pit was unstable below 1.5 m depth.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**Wheeled 360° excavator**	**RHorne**	JCB

AGS

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log TRIAL PIT LOG - A4P | 315075-PROJECT-CRONUS.GPJ - v10_01.
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RAW FIELD DATA

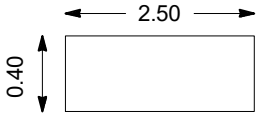
TRIAL PIT LOG

Contract:	Client:	Trial Pit:
Project Cronus	**Tata Steel UK Ltd**	**TP48**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**11.01.22** End: **11.01.22**	**---**	**E:277936.0 N:185071.0**	**1** of **1**

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
				1		TOPSOIL. Grass over sofy brown slightly sandy CLAY. Sand is fine. With abundant rootlets (3mm x 20mm).	0.15	
0.30-0.30 0.30	1	ES PID	1xT+1xJ+1xV 0.1ppm			Soft light greyish brown mottled orangish brown CLAY.	(0.35) 0.50	
0.70-0.70 0.70-0.70 0.70	2 3	D ES PID	 1xT+1xJ+1xV 0.0ppm			Soft to firm brownish grey silty CLAY.	(0.90) 1.40	
1.70-2.00	4	B		1		Soft blueish grey slightly sandy SILT. Sand is fine.	(1.60) 3.00	
2.50-2.50 2.50	5	ES PID	 0.0ppm					

Plan (Not to Scale)



General Remarks

1. Trial pit was unstable below 1.50m m depth.
2. Terminated due to instability.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**Wheeled 360° excavator**	**RHorne**	JCB

AGS

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log TRIAL PIT LOG - A4P | 315075-PROJECT-CRONUS.GPJ - v10_01.
RSK Environment Ltd, The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117 947 1006 Fax: 0117 947 1009 Web: www.rsk.co.uk. | 04/03/22 - 11:17 | SB5 |

RAW FIELD DATA

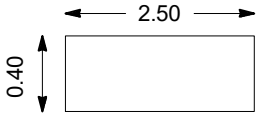
TRIAL PIT LOG

Contract:	Client:	Trial Pit:
Project Cronus	**Tata Steel UK Ltd**	**TP49**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**11.01.22** End: **11.01.22**	**---**	**E:277860.0 N:185236.0**	**1** of **1**

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.10-0.10 0.10	1	ES PID	1xT+1xJ+1xV 0.0ppm			TOPSOIL. Grass over sofy brown slightly sandy CLAY. Sand is fine. With abundant rootlets (3mm x 15mm).	0.20	
0.40-0.40	2	D				Soft light greyish brown mottled orange alightky sandy silty CLAY. Sand is fine.	(0.30) 0.50	
1.00-1.00	3	D				Grey firm silty CLAY.	(0.70) 1.20	
2.00-2.00 2.00-2.50 2.00	4 5	ES B PID	0.0ppm	1		Soft blueish grey sandy SILT. Sand is fine.	(1.30) 2.50	

Plan (Not to Scale)



General Remarks

1. Trial pit was unstable below 1.2 m depth.
2. Terminated due to pit collapse .

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**Wheeled 360° excavator**	**RHorne**	JCB

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log TRIAL PIT LOG - A4P | 315075-PROJECT-CRONUS.GPJ - v10_01.
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RSK GEOSCIENCES

RAW FIELD DATA

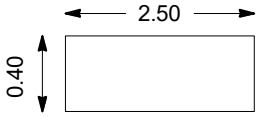
TRIAL PIT LOG

Contract:	Client:	Trial Pit:
Project Cronus	**Tata Steel UK Ltd**	**TP50**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**11.01.22** End: **11.01.22**	**---**	**E:277861.0 N:185366.0**	**1** of **1**

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
				1		TOPSOIL. Grass over sofy brown slightly sandy CLAY. Sand is fine. With abundant rootlets (2mm x 10mm).	0.15	
0.30-0.30 0.30	1	ES PID	1xT+1xJ+1xV 0.0ppm			Soft light greyish brown mottled orange alightky sandy silty CLAY. Sand is fine.	(0.35) 0.50	
0.70-0.70 0.70	2	ES PID	1xT+1xJ+1xV 0.0ppm			Soft greyish brown mottled orange alightky sandy silty CLAY. Sand is fine. With frequent decaying rootlets (<1mm x 8mm).	(1.50)	
1.00-1.50	3	B		1			2.00	
2.20-2.20 2.20	4	ES PID	0.0ppm			Soft blueish grey silty CLAY.	(1.20)	
3.20-3.20	5	D					3.20	

Plan (Not to Scale)



General Remarks

1. Trial pit was unstable below 1 m depth.
2. Pit terminated due to instability.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**13 Ton Tracked Excavator**	**RHorne**	JCB

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log TRIAL PIT LOG - A4P | 315075-PROJECT-CRONUS.GPJ - v10_01.
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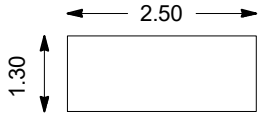
TRIAL PIT LOG

Contract:	Client:	Trial Pit:
Project Cronus	**Tata Steel UK Ltd**	**TP51**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**18.01.22** End: **18.01.22**	**---**	**E:277462.0 N:186177.0**	**1** of **1**

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.30-0.30 0.30-0.80 0.30	1 2	ES B PID	1xT+1xJ+1xV 0.4ppm	1		MADE GROUND: Dark brown sandy GRAVEL with medium cobble content. Sand is fine to coarse. Gravel is angular to subrounded fine to coarse of sandstone with abundant brick, concrete and frequent slag. Cobbles are angular and subangular of concrete and brick (<40mm x 100mm x 180mm). With slight hydrocarbon odour.	(0.90) 0.90	
				1		MADE GROUND: Old brick structure. Recovered as cobbles of brick.	(0.40) 1.30	

Plan (Not to Scale)



General Remarks

1. Terminated due to water ingress.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**Wheeled 360° excavator**	**RHorne**	JCB

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log TRIAL PIT LOG - A4P | 315075-PROJECT-CRONUS.GPJ - v10_01.
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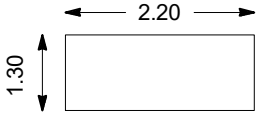
TRIAL PIT LOG

Contract:	Client:	Trial Pit:
Project Cronus	**Tata Steel UK Ltd**	**TP53**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**18.01.22** End: **18.01.22**	**---**	**E:277464.0 N:186067.0**	**1** of **1**

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.50-0.50 0.50-1.00 0.50	1 2	ES B PID	1xT+1xJ+1xV 0.2ppm	1 ▽ 1 ▼		MADE GROUND: Dark grey sandy GRAVEL with low cobble content. Sand is fine to coarse. Gravel is angular and subangular fine to coarse of sandstone with abundant slag and brick. Cobbles are angular of concrete, brick and slag (<40mm x 100mm x 180mm). With various anthropogenic material such as plastic bags, plastic fragments, metals fragments and rebar. With strong hydrocarbon odour.	(1.00) 1.00	

Plan (Not to Scale)



General Remarks

1. Terminated due to water ingress and refusal.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**Wheeled 360° excavator**	**RHorne**	JCB

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log TRIAL PIT LOG - A4P | 315075-PROJECT-CRONUS.GPJ - v10_01.
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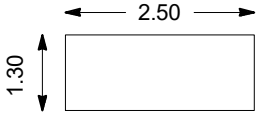
TRIAL PIT LOG

Contract:	Client:	Trial Pit:
Project Cronus	**Tata Steel UK Ltd**	**TP54**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**18.01.22**	**---**	**E:277555.0 N:185997.0**	**1** of **1**
	End: **18.01.22**			

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.20-0.20 0.20-0.70 0.20	1 2	ES B PID	1xT+1xJ+1xV 0.1ppm			MADE GROUND: Dark brown to black sandy GRAVEL with medium cobble content. Sand is fine to coarse. Gravel is angular to subrounded fine to coarse of sandstone with abundant brick, concrete and frequent slag. Cobbles are angular of abundant concrete (<30mm x 90mm x 150mm). With abundant rebar (<40mm x 40mm x 300mm).	(1.00) 1.00	
1.10-1.10 1.10	3	ES PID	1xT+1xJ+1xV 0.2ppm			MADE GROUND: Light brown sandy GRAVEL with high cobble content. Sand is fine to coarse. Gravel is angular to subrounded fine to coarse of sandstone with abundant concrete and brick. Cobbles are angular of concrete and brick (<50mm x 90mm x 150mm).	1.20	

Plan (Not to Scale)



General Remarks

1. Terminated due to pit refusal.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**Wheeled 360° excavator**	**RHorne**	JCB

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log TRIAL PIT LOG - A4P | 315075-PROJECT-CRONUS.GPJ - v10_01.
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RAW FIELD DATA

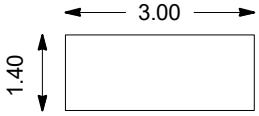
TRIAL PIT LOG

Contract:	Client:	Trial Pit:
Project Cronus	**Tata Steel UK Ltd**	**TP55**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**19.01.22** End: **19.01.22**	**---**	**E:277846.0 N:185723.0**	**1** of **1**

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.20-0.20 0.20	1	ES PID	1xT+1xJ+1xV 0.0ppm			MADE GROUND: Brown slithtly sandy GRAVEL. Sand is fine to coarse. Gravel is angular to subrounded fine to coarse of sandstone and abundant slag and occasional brick.	(0.60) 0.60	
0.70-0.70 0.70-1.20 0.70	2 3	ES B PID	1xT+1xJ+1xV 0.1ppm			MADE GROUND: Brown sandy GRAVEL with low cobble content. Sand is fine to coarse. Gravel is angular to subrounded fine to coarse of sandstone and abundant slag and occasional brick. Cobbles are angular of abundant slag (<50mm x 90mm x 150mm). . . . 1.00m to 1.20m; orangeish brown.	(0.90) 1.50	
1.60-1.60 1.60	4	ES PID	1xT+1xJ+1xV 0.4ppm			MADE GROUND: Dark grey slighty silty slighty sandy GRAVEL. Sand is fine to coarse. Gravel is angular to subrounded fine to coarse of sandstone and abundant slag and occasional brick.	(0.30) 1.80	
2.50-2.50 2.50-3.00 2.50	5 6	ES B PID	1xT+1xJ+1xV 0.1ppm	1		MADE GROUND: Grey slightly sandy gravelly COBBLES. Sand is fine to coarse. Gravel is angular fine to coarse of slag. Cobbles are angular of slag (<90mm x 200mm x 200mm).	(1.80) 3.60	

Plan (Not to Scale)



General Remarks

1. Trial pit was unstable below 1.80 m depth.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**Wheeled 360° excavator**	**RHorne**	JCB

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log TRIAL PIT LOG - A4P | 315075-PROJECT-CRONUS.GPJ - v10_01.
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RAW FIELD DATA

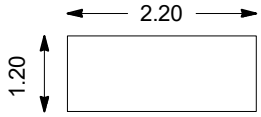
TRIAL PIT LOG

Contract:	Client:	Trial Pit:
Project Cronus	**Tata Steel UK Ltd**	**TP56**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**12.01.22** End: **12.01.22**	**---**	**E:278002.0 N:185683.0**	**1** of **1**

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.30-0.30 0.30-0.80 0.30	1 2	ES B PID	1xT+1xJ+1xV 0.9ppm	1 ▽		MADE GROUND: Dark grey sandy GRAVEL with medium cobble content. Sand is fine to coarse. Gravel is angular fine to coarse of sandstone with abundant slag and brick. Cobbles are angular of slag (<50mm x 90mm x 200mm).	(1.60) 1.60	
1.50-2.00	3	B		1 ▼		MADE GROUND: Grey GRAVEL with high cobble and low boulder content. Gravel is angular fine to coarse of abundant slag. Cobbles and boulders are angular of slag (<200m x 350mm x 450mm).	(0.90) 2.50	

Plan (Not to Scale)



General Remarks

1. Terminated due to water ingress.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**Wheeled 360° excavator**	**RHorne**	JCB

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log TRIAL PIT LOG - A4P | 315075-PROJECT-CRONUS.GPJ - v10_01.
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RAW FIELD DATA

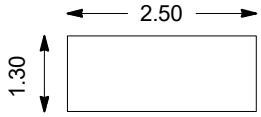
TRIAL PIT LOG

Contract:	Client:	Trial Pit:
Project Cronus	**Tata Steel UK Ltd**	**TP57**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**12.01.22** End: **12.01.22**	**---**	**E:278029.0 N:185645.0**	**1** of **1**

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.20-0.20 0.20-0.60 0.20	1 2	ES B PID	1xT+1xJ+1xV 0.4ppm			MADE GROUND: Dark grey sandy GRAVEL with medium cobble content. Sand is fine to coarse. Gravel is angular fine to coarse of sandstone with abundant slag and brick. Cobbles are angular of slag.	(0.80) 0.80	
1.00-1.50	3	B				MADE GROUND: Grey sandy GRAVEL with medium cobble content. With wood and glass and plastic	(0.90) 1.70	
1.80-1.80 1.80	4	ES PID	0.5ppm	1		Soft dark grey CLAY with abundant decaying rootlets (<2mm x 15mm) and occasional shell fragments (<3mm x 10mm x 12mm). . . . 1.70m to 2.00m; Reworked clay with occasional slag gravel.		
2.00-2.50	5	B						
2.50-2.50 2.50	6	ES PID	1xT+1xJ+1xV 0.1ppm				(1.80) 3.50	

Plan (Not to Scale)



General Remarks

1. Trial pit remained stable during excavation.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**Wheeled 360° excavator**	**RHorne**	JCB

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log TRIAL PIT LOG - A4P | 315075-PROJECT-CRONUS.GPJ - v10_01.
RSK Environment Ltd, The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117 947 1006 Fax: 0117 947 1009 Web: www.rsk.co.uk. | 04/03/22 - 11:17 | SB5 |

RSK GEOSCIENCES

RAW FIELD DATA

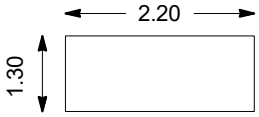
TRIAL PIT LOG

Contract:	Client:	Trial Pit:
Project Cronus	**Tata Steel UK Ltd**	**TP58**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**14.01.22**	**---**	**E:277956.0 N:185597.0**	**1** of **1**
	End: **14.01.22**			

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.20-0.20	1	ES	1xT+1xJ+1xV	1		MADE GROUND: Dark grey sandy GRAVEL with medium cobble content. Sand is fine to coarse. Gravel is angular fine to coarse of sandstone with abundant slag and brick. Cobbles are angular of slag (<20mm x 70mm x 120mm).	(1.20)	
0.20-0.70	2	B						
0.20		PID	0.8ppm				1.20	
1.50-2.00	3	B		1		MADE GROUND: Grey GRAVEL with high cobble and low boulder content. Gravel is angular fine to coarse of abundant slag. Cobbles and boulders are angular of slag (<200m x 350mm x 450mm).	(1.30)	
							2.50	
2.80-2.80	4	ES	1xT+1xJ+1xV			MADE GROUND (Reworked clay). Dark blueish grey slightly sandy gravelly CLAY with frequent decaying rootlets (<2mm x 20mm). Sand is fine to coarse. Gravel is angular and subangular fine to coarse of sandstone and abundant slag. With slight hydrocarbon odour.	(0.50)	
2.80-3.00	5	B						
3.00		PID	1.0ppm				3.00	

Plan (Not to Scale)



General Remarks

1. Terminated due to water ingress.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**Wheeled 360° excavator**	**RHorne**	JCB

AGS

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log TRIAL PIT LOG - A4P | 315075-PROJECT-CRONUS.GPJ - v10_01.
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RAW FIELD DATA

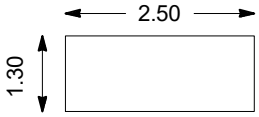
TRIAL PIT LOG

Contract:	Client:	Trial Pit:
Project Cronus	**Tata Steel UK Ltd**	**TP59**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**14.01.22** End: **14.01.22**	**---**	**E:278296.0 N:185633.0**	**1** of **1**

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.20-0.20 0.20-0.60 0.20	1 2	ES B PID	1xT+1xJ+1xV 0.6ppm	1		MADE GROUND: Dark grey sandy GRAVEL with medium cobble content. Sand is fine to coarse. Gravel is angular fine to coarse of sandstone with abundant slag and brick. Cobbles are angular of slag (<50mm x 90mm x 150mm).	(1.00) 1.00	
1.20-1.70	3	B		1		MADE GROUND: Grey GRAVEL with high cobble and low boulder content. Gravel is angular fine to coarse of abundant slag. Cobbles and boulders are angular of slag (<200m x 350mm x 450mm).	(0.80) 1.80	
1.90-1.90 1.90 2.00-2.50	4 5	ES PID B	1xT+1xJ+1xV 0.8ppm			MADE GROUND (Reworked clay). Dark blueish grey slightly sandy gravelly CLAY with frequent decaying rootlets (<2mm x 20mm). Sand is fine to coarse. Gravel is angular and subangular fine to coarse of sandstone and abundant slag.	(1.20) 3.00	

Plan (Not to Scale)



General Remarks

1. Terminated due to water ingress.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**Wheeled 360° excavator**	**RHorne**	JCB

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log TRIAL PIT LOG - A4P | 315075-PROJECT-CRONUS.GPJ - v10_01.
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RAW FIELD DATA

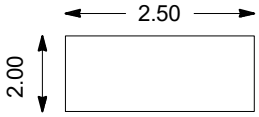
TRIAL PIT LOG

Contract:	Client:	Trial Pit:
Project Cronus	**Tata Steel UK Ltd**	**TP60**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**14.01.22** End: **14.01.22**	**---**	**E:277791.0 N:185878.0**	**1** of **1**

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.20-0.20 0.20-0.60 0.20	1 2	ES B PID	1xT+1xJ+1xV 0.0ppm			MADE GROUND: Dark brown slightly silty gravelly SAND with low cobble content. Sand is fine and medium. Gravel is angular and subangular fine to coarse of sandstone and abundant slag. Cobbles are angular of slag (<40mm x 65mm x 100mm).	(0.60) 0.60	
1.00-1.00 1.00-1.50 1.00	3 4	ES B PID	1xT+1xJ+1xV 0.0ppm			MADE GROUND: Yellowish brown slightly gravelly SAND. Sand is fine to coarse. Gravel is angular to subrounded fine and medium of sandstone and abundant slag.	(1.20) 1.80	

Plan (Not to Scale)



General Remarks

1. Trial pit was unstable below 0.6 m depth.
2. Terminated due to pit instability.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**Wheeled 360° excavator**	**RHorne**	JCB

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RAW FIELD DATA

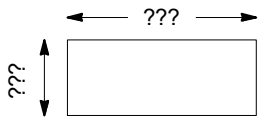
TRIAL PIT LOG

Contract:	Client:	Trial Pit:
Project Cronus	**Tata Steel UK Ltd**	**TP61**

Contract Ref:	Start:	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	**14.01.22** End: **14.01.22**	**---**	**E:278221.0 N:185715.0**	**1** of **1**

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.20-0.20 0.20 0.30-0.80	1 2	ES PID B	1xT+1xJ+1xV 0.4ppm			MADE GROUND: Dark grey sandy GRAVEL with medium cobble content. Sand is fine to coarse. Gravel is angular fine to coarse of sandstone with abundant slag and brick. Cobbles are angular of slag (<40mm x 80mm x 170mm).	(1.00) 1.00	
1.20-1.20 1.20-1.70 1.20	3 4 	ES B PID	1xT+1xJ+1xV 0.5ppm			Stiff dark grey CLAY with abundant decaying rootlets (<2mm x 15mm).	(1.00) 2.00	
						Soft grey mottled orange clayey SILT.	(1.50) 3.50	
3.00-3.00 3.00-3.10 3.00	5 6 	ES D PID	1xT+1xJ+1xV 0.5ppm					

Plan (Not to Scale)



General Remarks

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**Wheeled 360° excavator**	**RHorne**	JCB

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH301**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	End: **22.07.24**	**---**	**E:277248.0 N:186672.0**	**1** of **3**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
						ASPHALT.	0.20	
						MADE GROUND: Greyish brown sandy silty angular fine to coarse GRAVEL of concrete, brick and metal. Sand is fine to coarse.	0.50	
0.50	1	ES				. . . Service located in north end of the inspection pit at 0.25m depth.		
0.50		PID	0.0ppm			MADE GROUND: Pale brown and grey gravelly fine to coarse SAND. Frequent boulders (upto 0.5m wide) and cobbles of concrete with rebar and bricks.	(2.50)	
2.00	2	ES						
2.00		PID	0.0ppm				3.00	
3.50-4.00	1	B				Medium dense becoming loose dark grey fine to coarse SAND. (BLOWN SAND)		
3.50	3	ES						
3.50		PID	0.0ppm					
4.00-4.45	1	SPT	N=10					
4.00-4.45	2	D						
4.50-5.00	3	B						
5.00-5.45	2	SPT(c)	N=14					
5.00-5.45	4	D						
5.00	4	ES						
5.00-5.50	5	B						
5.00		PID	0.0ppm					
5.50-6.00	6	B					(6.00)	
6.00-6.45	3	SPT(c)	N=11					
6.00-6.45	7	D						
6.00-6.50	8	B						
7.00-7.50	9	B						
7.50-7.95	4	SPT	N=4					
7.50-7.95	10	D						
8.50-9.00	11	B					9.00	

Boring Progress and Water Observations

Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress

From	To	Duration (hh:mm)

General Remarks

1. Position scanned with a CAT, Genny and GPR prior to excavation.
2. Inspection pit machine dug to 3.0m depth. 300mm diameter pipe installed prior to backfilling to allow cable percussive drilling to commence.
3. Groundwater encountered at 2.5m depth.

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Cable Percussion	**Dando 3000**	**CJA**	**Jagan Raj**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH301**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**16.07.24** End: **22.07.24**	**---**	**E:277248.0 N:186672.0**	**2** of **3**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
9.00-9.45	12	U				Firm greenish grey sandy silty CLAY. Sand is fine to coarse. (TIDAL FLAT DEPOSITS)		
9.00	5	ES						
9.00		PID	0.0ppm					
9.45-9.60	13	D				. . . Frequent pockets of brown pseudo fibrous peat.		
10.00-10.50	14	B						
10.50-10.95	5	SPT(c)	N=11					
10.50-10.95	15	D						
11.50-12.00	16	B						
12.00-12.45	17	U					(6.00)	
12.45-12.60	18	D						
13.00-13.50	19	B						
13.50-13.95	6	SPT(c)	N=5					
13.50-13.95	20	D						
14.50-15.00	21	B						
							15.00	
15.00-15.45	22	U				Firm greyish brown very gravelly silty CLAY. Gravel is subrounded to rounded fine to coarse of mudstone. (TIDAL FLAT DEPOSITS)		
15.45-15.60	23	D						
16.00-16.50	24	B						
16.50-16.95	7	SPT(c)	N=11					
16.50-16.95	25	D						
17.50-18.10	26	B					(4.00)	

Boring Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress		
From	To	Duration (hh:mm)

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Cable Percussion	**Dando 3000**	**CJA**	**Jagan Raj**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH301**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	End: **22.07.24**	**---**	**E:277248.0 N:186672.0**	**3** of **3**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
18.10-18.37	8	SPT(c)	5,8/20,30 for 40mm			Firm greyish brown very gravelly silty CLAY. Gravel is subrounded to rounded fine to coarse of mudstone. (TIDAL FLAT DEPOSITS) *(stratum copied from 15.00m from previous sheet)*	19.00	
18.10-18.36	27	D						
19.00-19.50	28	B				Recovered as medium dense grey brown clayey fine to coarse SAND and subangular to subrounded fine to coarse GRAVEL of mudstone. (TIDAL FLAT DEPOSITS)	(0.81)	
19.50-19.95	9	SPT(c)	N=20				19.81	
19.50-19.81	29	D				Firm greyish brown very gravelly silty CLAY with moderate cobble content. Gravel is subrounded to rounded fine to coarse mudstone. Cobbles are subrounded to rounded mudstone (15cm). (Weathered South Wales Middle Coal Measures Formation).	(4.19)	
22.50-22.95	10	SPT(c)	N=31				24.00	
24.00-24.45	11	SPT(c)	N=32			Dense greyish brown silty subangular to subrounded fine to coarse GRAVEL and subrounded to rounded COBBLES of mudstone. (Weathered South Wales Middle Coal Measures Formation).	(0.60)	
24.00-24.50	37	B					24.60	
24.60-24.75	12	SPT(c)	25/50 for 75mm			Recovered as very dense yellowish brown and grey subangular to subrounded fine to coarse GRAVEL of sandstone. (Weathered South Wales Middle Coal Measures Formation).	25.05	
24.60-24.63	38	D				. . . Possible BOULDER of sandstone.		
						Groundwater encountered at 2.5m bgl, terminated due to refusal at 25m bgl and installed with combined gas and groundwater monitoring standpipe.		

Boring Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress		
From	To	Duration (hh:mm)

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Cable Percussion	**Dando 3000**	**CJA**	**Jagan Raj**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH302**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	End: **07.08.24**	**---**	**E:277244.0 N:186703.0**	**1** of **1**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
						Grey strong CONCRETE. 75% aggregates of subrounded to subangular fine to medium of mudstone. 1 to 3% small voids. No reinforcement identified.	0.20	
0.40-0.90	B1	B				MADE GROUND. Dense becoing medium dense greyish brown gravelly silty fine to coarse SAND with low cobble content. Gravel is angular to subrounded fine to coarse of slag, mudstone and flint. Cobbles are angular of slag.		
0.50	ES1	ES						
0.50		PID	0.0ppm					
1.00	ES2	ES						
1.00		PID	0.0ppm					
1.20-1.65	1	SPT(c)	N=35				(3.40)	
1.50	ES3	ES						
1.50		PID	0.0ppm					
2.00-2.45	2	SPT(c)	N=21					
2.50-3.10	B3	B						
2.50	ES4	ES						
2.50		PID	0.0ppm					
3.00-3.45	3	SPT(c)	N=14				3.60	
3.50-4.10	B4	B				Medium dense occasionally loose greyish brown silty fine to coarse SAND. (Tidal Flats Deposits)		
3.60	ES5	ES						
3.60		PID	0.0ppm					
4.00-4.45	4	SPT(c)	N=15					
4.50-5.00	B5	B						
5.00-5.45	5	SPT(c)	N=4			. . . Becomes greyish brown mottled orangish brown at 5.0m bgl.	(2.90)	
5.50-6.00	B6	B						
5.50	ES6	ES						
5.50		PID	0.0ppm					
6.00-6.45	6	SPT(c)	N=8				6.50	
6.50	B7	B				Firm greyish brown slightly sandy silty CLAY. Sand is fine to coarse. (Tidal Flats Deposits)	(0.80)	
						Borehole terminated at 7.30 m bgl due to ferrous anomaly (UXO risk).	7.30	

Boring Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress		
From	To	Duration (hh:mm)

General Remarks

1. Position scanned with a CAT, Genny and GPR prior to excavation.
2. Inspection pit hand dug to 1.20 m depth.
3. No groundwater encountered.

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Cable Percussion	**Dando 4000**	**CJA**	**Cameron Little**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH302A**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**19.09.24** End: **25.09.24**	**---**	**---**	**1** of **4**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
						CONCRETE.	0.20	
0.20		PID	0.0ppm			MADE GROUND: Dark greyish brown sandy subangular to subrounded fine to coarse GRAVEL of mudstone, slag and concrete. Occasional cobbles and rare boulders of mudstone. Sand is fine to coarse.		
0.30-0.90	1	B						
0.50	1	ES						
1.20-1.35	1	SPT(c)	25/50 for 75mm				(2.40)	
1.50-2.00	2	ES						
1.50-2.00	2	B						
2.00-2.23	2	SPT(c)	6,9/50 for 75mm					
							2.60	
2.60-3.00	3	ES				Loose light greyish brown slightly gravelly silty fine to medium SAND with occasional cobbles of mudstone. Gravel is angular to subrounded mudstone and slag. (Tidal Flat Deposits)		
2.60-3.00	3	B						
2.60		PID	0.1ppm				(0.90)	
3.00-3.45	3	SPT(c)	N=9			. . . Possible that gravel and cobbles pushed down from above by drilling process.		
							3.50	
3.50-4.00	4	ES				Loose greyish light brown fine to medium SAND. (Tidal Flat Deposits)		
3.50-4.00	4	B						
3.50		PID	0.1ppm					
4.00-4.45	4	SPT(c)	N=6				(2.00)	
5.00-5.45	5	SPT(c)	N=5					
							5.50	
5.50-6.00	6	B				Loose dark greyish brown fine to medium SAND. (Tidal Flat Deposits)		
5.50		PID	0.0ppm				(0.90)	
6.00-6.45	6	SPT(c)	N=4					
							6.40	
6.40-7.00	7	B				Soft to firm light grey silty CLAY. (Tidal Flat Deposits)		
6.40		PID	0.0ppm					
7.50-8.00	8	U	14 blows				(2.10)	
							8.50	
8.50-9.00	9	B				*Description on next sheet*		
8.50		PID	0.0ppm					

Boring Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress		
From	To	Duration (hh:mm)

General Remarks

1. Position scanned with a CAT, Genny and GPR prior to excavation.
2. Groundwater encountered at 2.18m depth at start of shift 23/09.
3. Concrete cored to 0.20m bgl on 19/09/24 and borehole advanced with cable percussion.

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Cable Percussion	**Dando 4000**	**CJA**	**Jagan Raj**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH302A**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	End: **25.09.24**	**---**	**---**	**2** of **4**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
9.00-9.45	7	SPT(c)	N=4			Very soft to soft light grey slightly sandy silty CLAY with occasional pockets of organic plant matter and petrified wood. Sand is fine. (Tidal Flat Deposits) *(stratum copied from 8.50m from previous sheet)*	(2.20)	
9.00-9.45	10	D						
10.00-10.50	11	B						
10.00		PID	0.0ppm					
10.50-10.95	12	U	41 blows				10.70	
10.70		PID	0.1ppm			Soft to firm dark brown mottled grey slightly clayey fibrous PEAT. (Tidal Flat Deposits)		
10.95-11.05	13	D						
11.10-11.60	14	B					(2.30)	
12.00-12.45	8	SPT(c)	N=7					
12.00-12.45	15	D					13.00	
13.00-13.50	16	B				Very soft grey to dark greyish brown silty CLAY. (Tidal Flat Deposits) . . . Rare organic plant matter.		
13.00		PID	0.1ppm					
13.50-13.95	17	U	24 blows					
13.95-14.05	18	D						
14.50-15.00	19	B						
15.00-15.45	9	SPT(c)	N=1					
15.00-15.45	20	D						
16.00-16.50	21	B					(7.00)	
16.50-16.95	22	U	31 blows			. . . Dark greyish brown below 17.0m bgl.		
17.50-18.00	23	B						

Boring Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress		
From	To	Duration (hh:mm)

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Cable Percussion	**Dando 4000**	**CJA**	**Jagan Raj**	JB AGS

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH302A**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**19.09.24** End: **25.09.24**	**---**	**---**	**3** of **4**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
18.00-18.45	10	SPT(c)	N=4			Very soft grey to dark greyish brown silty CLAY. (Tidal Flat Deposits) . . . Rare organic plant matter.*(stratum copied from 13.00m from* previous sheet)		
18.00-18.45	24	D						
19.00-19.50	25	B						
19.50-19.95	26	U	21 blows					
							20.00	
20.50-21.00	27	B				Dark greyish brown silty subrounded to rounded fine to coarse GRAVEL of mudstone. (Weathered South Wales Middle Coal Measures Formation)	(1.00)	
							21.00	
21.00-21.45	11	SPT(c)	N=28			Very stiff dark greyish brown gravelly silty CLAY. Gravel is subangular to subrounded fine to coarse mudstone. (Weathered South Wales Middle Coal Measures Formation)		
22.00-22.50	28	B						
22.50-22.95	12	SPT(c)	N=40					
23.50-24.00	29	B						
24.00-24.38	13	SPT(c)	N=65				(6.45)	
25.00-25.50	30	B						
25.50-25.95	14	SPT(c)	N=65					

Boring Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress		
From	To	Duration (hh:mm)

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Cable Percussion	**Dando 4000**	**CJA**	**Jagan Raj**	JB AGS

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH302A**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	End: **25.09.24**	**---**	**---**	**4** of **4**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
27.00-27.15	15	SPT(c)	25/50 for 75mm					
27.30-27.45	16	SPT(c)	25/100 for 75mm			. . . Probable boulder.	27.45	
						Refusal on probable boulder at 27.3m bgl.		

Boring Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress		
From	To	Duration (hh:mm)

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Cable Percussion	**Dando 4000**	**CJA**	**Jagan Raj**	JB

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH303A**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	End: **22.08.24**	**---**	**E:277232.0 N:186730.0**	**1** of **4**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
						ASPHALT	0.05	
						Strong grey CONCRETE. 75% aggregate of angular to subrounded fine to coarse flint. Approximately 2 to 3% small voids.	(0.50)	
							0.55	
0.60	ES1	ES				MADE GROUND. Very dense dark grey sandy silty angular fine to coarse GRAVEL of concrete and slag with medium cobble content. Cobbles are angular of slag.		
0.80-1.20	1	B					(0.95)	
1.20-1.40	1	SPT(c)	7,18/39,11 for 15mm					
1.50-2.00	2	B					1.50	
						MADE GROUND. Dark grey yellowish grey angular slightly gravelly COBBLES of slag and concrete. Gravel is angular fine to coarse of slag and concrete.	(0.50)	
2.00-2.17	2	SPT(c)	17,8/50 for 75mm				2.00	
2.00-2.70	3	B				MADE GROUND. Very dense brown angular to subangular fine to coarse GRAVEL of wood with a slight hydrocarbon odour. (Possible railway sleeper)	(0.70)	
							2.70	
2.70-3.00	4	B				Loose and occasionally medium dense brown silty fine to medium SAND. (Tidal Flat Deposits)		
3.00-3.45	3	SPT(c)	N=4					
3.50-4.00	5	B						
4.00-4.45	4	SPT(c)	N=8					
4.50-5.00	6	B					(4.00)	
5.00-5.45	5	SPT(c)	N=14					
5.50-6.00	7	B						
6.00-6.45	6	SPT(c)	N=7					
							6.70	
6.70-7.50	8	B				Very soft to soft grey sandy silty CLAY. Sand is fine. (Tidal Flat Deposits)		
7.50-7.95	9	U	10 blows 100% recovery					
8.50-9.00	10	B					(4.10)	

Boring Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress		
From	To	Duration (hh:mm)

General Remarks

1. Position scanned with a CAT, Genny and GPR prior to excavation.
2. Position concrete cored to 0.55m bgl. Inspection pit hand dug from 0.55m to 0.90m bgl.
3. Borehole advanced with cable percussion from 0.90m bgl.

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Cable Percussion	**Dando 4000**	**CJA**	**Cameron Little**	JB AGS

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH303A**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**12.08.24** End: **22.08.24**	**---**	**E:277232.0 N:186730.0**	**2** of **4**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
9.00-9.45	7	SPT	N=2			Very soft to soft grey sandy silty CLAY. Sand is fine. (Tidal Flat Deposits) *(stratum copied from 6.70m from previous sheet)*		
9.00-9.45	11	D						
10.00-10.50	12	B						
10.50-10.95	13	U	17 blows 100% recovery				10.80	
10.95-11.05	14	D				Firm orangish brown to dark brown fibrous PEAT with a strong organic odour. (Tidal Flat Deposits)		
11.50-12.00	15	B					(1.65)	
12.00-12.45	8	SPT	N=9					
12.00-12.45	16	D					12.45	
12.80-13.50	17	B				Soft to firm dark grey silty CLAY. (Tidal Flat Deposits) . . . Occasional pockets of pseudo-fibrous peat between 12.45m and 15.0m bgl.		
13.50-13.95	18	U	12 blows 100% recovery					
14.50-15.00	19	B						
15.00-15.45	9	SPT	N=2			. . . Becomes very soft at 15.0m bgl.		
15.00-15.45	20	D					(6.25)	
16.00-16.50	21	B						
16.50-16.95	22	U	10 blows 100% recovery					
16.95-17.05	23	D						
17.50-18.00	24	B						

Boring Progress and Water Observations

Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress

From	To	Duration (hh:mm)

General Remarks

4. Groundwater encountered at 2.64m depth.

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Cable Percussion	**Dando 4000**	**CJA**	**Cameron Little**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH303A**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**12.08.24** End: **22.08.24**	**---**	**E:277232.0 N:186730.0**	**3** of **4**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
18.00-18.45	10	SPT	N=4			Soft to firm dark grey silty CLAY. (Tidal Flat Deposits)		
18.00-18.45	25	D				. . . Occasional pockets of pseudo-fibrous peat between 12.45m and 15.0m bgl.*(stratum copied from 12.45m from previous sheet)*	18.70	
18.70-19.50	26	B				Very dense multicoloured (dark grey, greyish brown, grey and dark pink) slightly sandy silty subangular to subrounded fine to coarse GRAVEL of mudstone, siltstone and occasional sandstone. Sand is fine to coarse. (Glaciofluvial Deposits)		
19.00-19.45	33	U	21 blows					
19.50-19.88	11	SPT(c)	10,14/26,21,3 for 75mm				(3.30)	
20.50-21.00	27	B						
21.00-21.38	12	SPT(c)	9,12/19,22,9 for 75mm				22.00	
22.00-22.50	28	B				Very stiff to hard dark brownish grey to dark grey slightly sandy very gravelly silty CLAY. Sand is fine. Gravel is subangular to subrounded fine to coarse of mudstone and siltstone. (Weathered South Wales Middle Coal Measures Formation)		
22.50-22.95	13	SPT(c)	N=32			. . . Poor recovery between 22.0m and 22.50m bgl.		
23.50-24.00	29	B						
24.00-24.30	14	SPT(c)	25/18,19,13 for 75mm					
25.00-25.50	30	B					(6.10)	
26.50-27.00	31	B						

Boring Progress and Water Observations

Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress

From	To	Duration (hh:mm)

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Cable Percussion	**Dando 4000**	**CJA**	**Cameron Little**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH303A**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	End: **22.08.24**	**---**	**E:277232.0 N:186730.0**	**4** of **4**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
27.00-27.45	15	SPT(c)	N=24			Very stiff to hard dark brownish grey to dark grey slightly sandy very gravelly silty CLAY. Sand is fine. Gravel is subangular to subrounded fine to coarse of mudstone and siltstone. (Weathered South Wales Middle Coal Measures Formation) . . . Poor recovery between 22.0m and 22.50m bgl.*(stratum copied from 22.00m from previous sheet)*	28.10	
28.10-28.50	32	B				MUDSTONE. Recovered as dark grey angular to subangular fine to coarse gravel of mudstone. (South Wales Middle Coal Measures Formation)	(0.85)	
28.50-28.80	16	SPT(c)	6,16/47,53 for 75mm				28.95	
						Groundwater encountered at 2.64m depth. Terminated at 28.50m bgl due to refusal on bedrock. Backfilled with bentonite and reinstated with concrete upon completion.		

Boring Progress and Water Observations						Chiselling / Slow Progress			General Remarks
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)	

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Cable Percussion	**Dando 4000**	**CJA**	**Cameron Little**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH304**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**25.07.24** End: **09.08.24**	**8.42**	**E:277232.9 N:186644.3**	**1** of **9**

Depth (m)	Samples & Testing: No	Type	Results	Mechanical Log: TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instrumentation	Water	Description of Strata	Fracture Log	Depth (Thickness)	Material Graphic Legend
										ASPHALT		0.10	
										MADE GROUND. Dark brown gravelly fine to coarse SAND. Gravel is angular fine to coarse of slag and roadstone.		(0.50)	
0.50	1	ES										0.60	
0.50		PID	0.0ppm							Loose yellow brown fine to medium SAND. (Blown Sand)			
1.00	2	ES											
1.00		PID	0.0ppm						1			(1.90)	
1.70-2.00	1	B								. . . Becomes brown from 1.70m bgl.			
2.00-2.45	20	SPT(c)	N=6									2.50	
2.50-3.00	2	B								Loose brown silty fine to coarse SAND. (Tidal Flat Deposits)			
2.50	3	ES											
2.50		PID	0.0ppm										
3.00-3.45	21	SPT(c)	N=6									(1.50)	
3.20-4.00	3	B								. . . Becomes greyish brown from 3.50m bgl.			
												4.00	
4.00-4.45	22	SPT(c)	N=6							Loose dark greenish grey silty fine to coarse SAND. (Tidal Flat Deposits)			
4.50-5.00	4	B											
5.00-5.45	23	SPT(c)	N=4									(2.00)	
5.50-6.00	5	B											
												6.00	
6.00-6.45	24	SPT(c)	N=2							Very soft greyish brown sandy CLAY. Sand is fine to coarse. (Tidal Flat Deposits)			
7.00-7.50	6	B										(2.50)	
7.50-7.95	7	U	40 blows										
												8.50	
8.50-9.00	8	B								Soft grey clayey SILT. (Tidal Flat Deposits)		(0.50)	
												9.00	

Boring Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress		
From	To	Duration (hh:mm)

General Remarks

1. Position scanned with a CAT, Genny and GPR prior to excavation.
2. Inspection pit machine dug to 1.60m depth. 300mm diameter pipe installed prior to backfilling to allow cable percussive drilling to commence.

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Cable Percussion + Rotary Cored	**CPT Rig + Dando 2000Fraste**	**CJA**	**Jagan Raj + KBancroft**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH304**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	End: **09.08.24**	**8.42**	**E:277232.9 N:186644.3**	**2** of **9**

Depth (m)	Samples & Testing: No	Type	Results	Mechanical Log: TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instrumentation	Water	Description of Strata	Fracture Log	Depth (Thickness)	Material Graphic Legend
9.00-9.45	9	D								Loose grey silty fine to medium SAND. (Tidal Flat Deposits)		(2.50)	
9.00-9.45	25	SPT	N=7										
10.00-10.50	10	B											
10.50-10.95	11	U	17 blows										
												11.50	
11.70-12.00	12	B								Firm dark brown fibrous PEAT. Moderate organic odour. (Tidal Flat Deposits)		(0.50)	
												12.00	
12.00-12.45	13	D								Soft to firm grey silty CLAY. Occasional peat fragments. (TIDAL FLAT DEPOSITS)			
12.00-12.45	26	SPT	N=21										
12.80-13.50	14	B										(2.00)	
13.50-13.95	15	U	10 blows										
												14.00	
13.95-14.05	16	D								Very soft grey silty CLAY. (TIDAL FLAT DEPOSITS)			
14.50-15.00	17	B											
15.00-15.45	18	D											
15.00-15.45	27	SPT	N=4										
16.00-16.50	19	B											
16.50-16.95	20	U	17 blows									(5.70)	
17.50-18.00	21	B											

Boring Progress and Water Observations

Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress

From	To	Duration (hh:mm)

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Cable Percussion + Rotary Cored	**CPT Rig + Dando 2000Fraste**	**CJA**	**Jagan Raj + KBancroft**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH304**

Contract Ref:	Start: **25.07.24** End: **09.08.24**	Ground Level:	National Grid Co-ordinate:	Sheet:
315531		**8.42**	**E:277232.9 N:186644.3**	**3** of **9**

Depth (m)	Samples & Testing: No	Type	Results	Mechanical Log: TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instrumentation	Water	Description of Strata	Fracture Log	Depth (Thickness)	Material Graphic Legend
18.00-18.45	12	SPT	N=4							Very soft grey silty CLAY. (TIDAL FLAT DEPOSITS) *(stratum copied from 14.00m from* previous sheet)			
18.00-18.45	22	D											
18.80-19.50	23	B								. . . Becomes greyish brown between 18.80m and 19.50m bgl.			
19.50-19.95	13	SPT(c)	N=36									19.70	
19.70-20.20	24	B								Dense grey brown fine to coarse SAND.		(0.60)	
20.30-21.00	25	B								Dense grey brown subrounded to rounded coarse GRAVEL of mudstone. (Weathered South Wales Middle Coal Measures)		20.30	
21.00-21.45	14	SPT(c)	N=30									(3.10)	
22.00-22.50	26	B											
22.50-22.95	15	SPT(c)	N=38									23.40	
23.40-24.00	27	B								Dense brown clayey subrounded COBBLES of mudstone. (Weathered South Wales Middle Coal Measures)			
24.00-24.45	20	SPT(c)	N=34									(2.10)	
25.00-25.50	28	B										25.50	
25.50-25.95	19	SPT(c)	N=44							Dense brown slightly sandy slightly gravelly COBBLES of mudstone. Sand is fine to coarse. Gravel is subrounded fine to coarse of mudstone. (Weathered South Wales Middle Coal Measures)			
26.50-27.00	29	B											

Boring Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress		
From	To	Duration (hh:mm)

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Cable Percussion + Rotary Cored	**CPT Rig + Dando 2000Fraste**	**CJA**	**Jagan Raj + KBancroft**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH304**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**25.07.24** End: **09.08.24**	**8.42**	**E:277232.9 N:186644.3**	**4** of **9**

Depth (m)	Samples & Testing: No	Type	Results	Mechanical Log: TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instrumentation	Water	Description of Strata	Fracture Log	Depth (Thickness)	Material Graphic Legend
27.00-27.30	18	SPT(c)	19,6/30,20 for 75mm							Dense brown slightly sandy slightly gravelly COBBLES of mudstone. Sand is fine to coarse. Gravel is subrounded fine to coarse of mudstone. (Weathered South Wales Middle Coal Measures) *(stratum copied from 25.50m from* previous sheet)		(3.40)	
27.00-27.80	30	B											
27.80-28.30	31	B											
28.30-29.80												28.90	
28.30-28.45	17	SPT(c)	25/39,11 for 0mm										
29.80-31.30				104	13	0	20 50 90 FI=12			Medium strong partially unweathered to unweathered dark brownish grey SILTSTONE with very thin pale grey fine sandstone laminations.	1		
31.30-32.80				100	83	40	20 40 100 FI=23				2	(4.10)	
31.30-31.30	1	SPT(c)	NP	100	86	33	20 50 110 FI=20			. . . Fossilised organic matter inclusions from 32.20m bgl.	3		
32.80-34.30				96	64	0	5 80			. . . Becomes moderately weak and partially unweathered from 32.80m bgl. Moderately weak to medium strong partially unweathered grey and dark grey MUDSTONE. Occasional lenses of carbonaceous mudstone. . . . Lense of extremely weak to very weak distinctly weathered black COAL between 33.60m and 33.70m bgl. . . . Becomes unweathered at 34.30m bgl.	4	33.00 (2.00)	
34.30-35.80												35.00	
34.30-34.30	2	SPT(c)	NP	92	52	0	40 50 87 FI=12			Weak to moderately weak unweathered to partially unweathered black COAL.	5	(0.50)	
35.80-37.30				93	40	13				*Description on next sheet*		35.50	

Boring Progress and Water Observations						Chiselling / Slow Progress			General Remarks
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)	

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Cable Percussion + Rotary Cored	**CPT Rig + Dando 2000Fraste**	**CJA**	**Jagan Raj + KBancroft**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH304**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**25.07.24** End: **09.08.24**	**8.42**	**E:277232.9 N:186644.3**	**5** of **9**

Depth (m)	Samples & Testing: No	Type	Results	Mechanical Log: TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instrumentation	Water	Description of Strata	Fracture Log	Depth (Thickness)	Material Graphic Legend
				93	40	13	12 60 200 FI=16			Medium strong unweathered brownish grey SILTSTONE/MUDSTONE. Frequent angular fine to coarse fossilised organic matter inclusions. *(stratum copied from 35.50m from* previous sheet) . . . Fossilised organic matter inclusions no longer present below 36.70m bgl.	6		
37.30-38.50 37.30-37.30	3	SPT(c)	NP	114	77	33	40 1850			. . . Becomes moderately weak and distinctly weathered between 37.70m and 38.15m bgl. . . . Becomes strong at 38.30m bgl.	7	(6.30)	
38.80-40.30				93	58	24	20 75 120 FI=18				8		
40.30-41.80 40.30-40.30	9	SPT(c)	NP	91	52	16	30 140			. . . Becomes weak distinctly weathered to destructured dark grey between 40.30m and 40.75m bgl (carbonaceous). . . . Becomes moderately weak to medium strong at 40.75m bgl. . . . Becomes strong at 40.90m bgl.	9	41.80	
41.80-43.30				100	38	30	100 250 310 FI=8			Strong to very strong unweathered brownish grey fine SANDSTONE. Rare angular fine to coarse fossilised organic matter inclusions.	10	(1.50) 43.30	
43.30-44.80 43.30-43.30	10	SPT(c)	NP	93	56	24	5 90 180 FI=10			Medium strong unweathered dark grey MUDSTONE. . . . Becomes moderately weak and partially unweathered from 43.90m bgl.	11	(1.10) 44.40	
44.80-46.30				97	16	16				Very weak unweathered to partially unweathered black COAL.			

Boring Progress and Water Observations						Chiselling / Slow Progress			General Remarks
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)	

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Cable Percussion + Rotary Cored	**CPT Rig + Dando 2000Fraste**	**CJA**	**Jagan Raj + KBancroft**	JB AGS

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH304**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**25.07.24** End: **09.08.24**	**8.42**	**E:277232.9 N:186644.3**	**6** of **9**

Depth (m)	Samples & Testing: No	Type	Results	Mechanical Log: TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instrumentation	Water	Description of Strata	Fracture Log	Depth (Thickness)	Material Graphic Legend
				97	16	16	30 240 FI=8			Very weak unweathered to partially unweathered black COAL. *(stratum copied from 44.40m from previous sheet)*	12	(1.40) 45.80	
46.30-47.80 46.30-46.30	11	SPT(c)	NP	100	78	69	30 140 180 FI=12			Moderately weak to medium strong partially weathered to distinctly weathered dark grey MUDSTONE. Frequent angular fine to coarse fossilised organic matter inclusions. . . . Becomes very strong and unweathered from 46.30m bgl. . . . Frequent subrounded to rounded coarse fine sandstone inclusions between 46.80m and 47.40m bgl.	13		
47.80-49.30				100	93	84	210 300 FI=8			. . . Becomes very weak to moderately weak at 47.8m bgl.	14[i]	(5.00)	
49.30-50.80 49.30-49.30	6	SPT(c)	NP	92	30	30	38 FI=10			. . . Becomes moderately strong at 50.2mbgl	15[i]	50.80	
50.80-52.30				100	83	73	60 400 220 FI=10			Moderately weak unweathered to partially unweathered black organic MUDSTONE.	16[i]	(0.80) 51.60	
52.30-53.80 52.30-52.30	7	SPT(c)	NP	100	71	59	10 25 FI=4			Moderately weak to medium strong unweathered to partially unweathered interbedded organic MUDSTONE and fine SANDSTONE/SILTSTONE.	17	(3.70)	
53.80-55.30				100	66	45							

Boring Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress		
From	To	Duration (hh:mm)

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Cable Percussion + Rotary Cored	**CPT Rig + Dando 2000Fraste**	**CJA**	**Jagan Raj + KBancroft**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH304**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**25.07.24** End: **09.08.24**	**8.42**	**E:277232.9 N:186644.3**	**7** of **9**

Depth (m)	Samples & Testing: No	Type	Results	Mechanical Log: TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instrumentation	Water	Description of Strata	Fracture Log	Depth (Thickness)	Material Graphic Legend
				100	66	45	130 150 FI=8			Moderately weak to medium strong unweathered to partially unweathered interbedded organic MUDSTONE and fine SANDSTONE/SILTSTONE. *(stratum copied from 51.60m from* previous sheet)	18[i]	55.30	
55.30-56.80 55.30-55.30	8	SPT(c)	NP	100	50	20	130 210 FI=8			Very weak to moderately weak unweathered to distinctly weathered dark grey MUDSTONE.			
56.80-58.30				93	86	71	1900 200 FI=10				19[i]	(4.50)	
58.30-59.80				64	38	8	30 50 120 FI=15			. . . Rare rounded fine to coarse fossilised organic matter inclusions between 58.3-58.6mbgl	20	59.80	
59.80-61.30				93	60	53	200 200 FI=5			Very weak to weak unweathered to partially unweathered dark grey to black MUDSTONE. Frequent angular fine to coarse fossilised organic matter inclusions.	21[i]		
61.30-62.80				93	43	26	290 FI=10			. . . Becomes destructured between 61.30-61.45m bgl	22[i]		
62.30-64.30				73	47	25	90 180 FI=6			. . . Becomes moderately weak with frequent coarse rounded inclusions of brown SILTSTONE at 62.5m bgl.			

Boring Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress		
From	To	Duration (hh:mm)

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Cable Percussion + Rotary Cored	**CPT Rig + Dando 2000Fraste**	**CJA**	**Jagan Raj + KBancroft**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH304**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**25.07.24** End: **09.08.24**	**8.42**	**E:277232.9 N:186644.3**	**8** of **9**

Depth (m)	Samples & Testing: No	Type	Results	Mechanical Log: TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instrumentation	Water	Description of Strata	Fracture Log	Depth (Thickness)	Material Graphic Legend
				73	47	25	90 180 FI=6			Very weak to weak unweathered to partially unweathered dark grey to black MUDSTONE. Frequent angular fine to coarse fossilised organic matter inclusions. *(stratum copied from 59.80m from previous sheet)*		(7.95)	
64.30-65.80				92	64	42	50 200 FI=10			. . . Becomes medium strong to strong with occasional thick bands of brown siltstone at 64.30.m bgl.	23[i]		
65.80-67.30				100	80	56	60 240 FI=10			. . . Band of medium strong fine SANDSTONE between 66.0-66.15mbgl . . . Very thin band of COAL between 66.480-66.485m bgl.	24[i]		
67.30-68.80				86	71	53	140 150 FI=11			. . . Band of medium strong fine SANDSTONE between 67.10-67.25mbgl.		67.75	
										Very weak unweathered to partially unweathered black COAL.	25[i]	68.00	
										Very weak to weak distinctly weathered grey MUDSTONE.			
68.80-70.30				100	100	92	25 40 80 FI=4			. . . Rare patches of brown oxidation/surface staining between 68.80m - 69.9m bgl	26	(1.90)	
										Moderately weak unweathered to partially unweathered brownish grey SILTSTONE AND FINE SANDTONE.		69.90	
70.30-71.80				93	80	80	200 200 FI=7			. . . Occasional patches of brown oxidation/surface staining between 70.9-71.3m bgl	27	(3.40)	
71.80-73.30				100	99	99				*Description on next sheet*			

Boring Progress and Water Observations						Chiselling / Slow Progress			General Remarks
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)	

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Cable Percussion + Rotary Cored	**CPT Rig + Dando 2000Fraste**	**CJA**	**Jagan Raj + KBancroft**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH304**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**25.07.24** End: **09.08.24**	**8.42**	**E:277232.9 N:186644.3**	**9** of **9**

Depth (m)	Samples & Testing: No	Type	Results	Mechanical Log: TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instrumentation	Water	Description of Strata	Fracture Log	Depth (Thickness)	Material Graphic Legend
				100	99	99	120 200 260 FI=5			. . . Rare inclusions of angular to rounded fine to coarse fossilised organic matter inclusions between 71.80-73.3 Moderately weak unweathered to partially unweathered brownish grey SILTSTONE AND FINE SANDTONE. *(stratum copied from 69.90m from* previous sheet)	28[i]	73.30	
73.30-74.80 73.30-73.30	4	SPT(c)	NP	83	83	83	120 130 340 FI=4			Moderately weak to medium strong unweathered brownish grey FINE SANDSTONE.		(1.50) 74.80	
74.80-74.80	5	SPT(c)	NP							Terminated at 74.8mbgl			

Boring Progress and Water Observations						Chiselling / Slow Progress			General Remarks
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)	

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Cable Percussion + Rotary Cored	**CPT Rig + Dando 2000Fraste**	**CJA**	**Jagan Raj + KBancroft**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH305**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**23.08.24** End: **02.09.24**	**---**	**---**	**1** of **4**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
						Strong grey CONCRETE. 75% aggregate of angular to subrounded fine to coarse flint. Approximately 2 to 3% small voids.	0.30	
0.50-1.00 0.50	1 1	B ES				MADE GROUND: dark brownish grey gravelly fine to coarse SAND. Gravel is subangular to subrounded fine to coarse slag, roadstone, mudstone, rare scrap metal, rare glass and rare brick. (Fill Material)	(1.20) 1.50	
1.50-2.00	2	B				MADE GROUND: brownish grey silty subangular to subrounded fine to coarse GRAVEL and angular COBBLES of slag. (Fill Material)	(1.00) 2.50	
2.50 2.50-3.00	2 3	ES B				MADE GROUND: greyish brown sandy COBBLES of subrounded weak cemented sandstone and slag. Sand is fine to medium. (Fill Material) . . . Cobble of silver subrounded high density slag recovered at 2.9m bgl.	(0.70) 3.20	
3.50 3.50-4.00	3 4	ES B				Loose becoming very loose greyish brown slightly clayey silty SAND. Sand is fine to medium. (Tidal Flat Deposits)		
4.00-4.45	1	SPT(c)	N=7					
4.50-5.00	5	B						
							(3.50)	
5.00-5.45	2	SPT(c)	N=6					
5.50 5.50-6.00	4 6	ES B				. . . Becoming dark grey below 5.5m.		
6.00-6.45	3	SPT(c)	N=2					
6.50-7.50	7	B					6.70	
						Soft grey slightly sandy silty organic CLAY with rare veins of reddish brown fibrous plant matter (<2mm thickness). Sand is fine. (Tidal Flat Deposits)		
7.50-7.95	8	U	14 blows				(1.80)	
							8.50	
8.50-9.00	9	B				Soft brownish grey clayey SILT with a moderate organic odour. (Tidal Flat Deposits)		

Boring Progress and Water Observations

Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress

From	To	Duration (hh:mm)

General Remarks

1. Position scanned with a CAT, Genny and GPR prior to excavation.
2. Groundwater encountered at 2.43m depth.
3. Concrete cored (23/08/24). Borehole advanced with cable percussion (27/08/24).

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Cable Percussion	**Dando 4000**	**CJA**	**Jagan Raj**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH305**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	End: **02.09.24**	**---**	**---**	**2** of **4**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
9.00-9.45	4	SPT	N=2			Soft brownish grey clayey SILT with a moderate organic odour. (Tidal Flat Deposits) *(stratum copied from 8.50m from previous sheet)*	(2.50)	
9.00-9.45	10	D						
10.00-10.50	11	B						
10.50-10.95	12	U	11 blows				11.00	
11.30-12.00	13	B				Stiff brown fibrous PEAT with a strong organic odour. (Tidal Flat Deposits) . . . Brownish grey rounded cobble of hard sandstone recovered at approximately 11.2m. Possibly pushed down by drilling process.	(1.50)	
12.00-12.45	5	SPT	N=27					
12.00-12.45	14	D					12.50	
13.00-13.50	15	B				Soft to firm grey to dark grey silty CLAY. (Tidal Flat Deposits)		
13.50-13.95	7	SPT(c)	N=2					
14.50-15.00	16	B					(4.80)	
15.00-15.45	17	D						
16.00-16.50	18	B				. . . Becoming brownish grey below 16m.		
16.50-16.95	19	U	16 blows					
17.30-18.00	20	B					17.30	
						Description on next sheet		

Boring Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress		
From	To	Duration (hh:mm)

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Cable Percussion	**Dando 4000**	**CJA**	**Jagan Raj**	JB AGS

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH305**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	End: **02.09.24**	**---**	**---**	**3** of **4**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
18.00-18.45	6	SPT(c)	N=32			Dense (from 18.00m) to very dense dark brownish grey slightly sandy silty subrounded to rounded fine to coarse GRAVEL of mudstone. Sand is fine to coarse. (Weathered South Wales Middle Coal Measures) *(stratum copied from 17.30m from previous sheet)*	(6.10)	
18.50-19.50	21	B						
19.50-19.88	8	SPT(c)	8,13/17,20,13 for 75mm					
20.50-21.00	22	B						
21.00-21.45	9	SPT(c)	N=31					
22.00-22.50	23	B				. . . No recovery.		
22.50-22.95	10	SPT(c)	N=24				23.40	
23.50-24.00	24	B				Stiff dark brownish grey slightly sandy very gravelly silty CLAY. Gravel is subrounded to rounded fine to coarse mudstone. Sand is coarse. (Weathered South Wales Middle Coal Measures)	(3.60)	
24.00-24.45	11	SPT(c)	N=32					
25.00-25.50	25	B						
26.50-27.00	26	B				. . . Cobble of subrounded pale brown mudstone recovered between 26.5m and 27.0m bgl.	27.00	

Hole terminated on 02/09/24 due to crane maintenance on 03/09/24 and time constraints.

Boring Progress and Water Observations						Chiselling / Slow Progress		
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Cable Percussion	**Dando 4000**	**CJA**	**Jagan Raj**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH305**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**23.08.24** End: **02.09.24**	**---**	**---**	**4** of **4**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instru-mentation	Water	Description of Strata	Depth (Thick ness)	Material Graphic Legend

Boring Progress and Water Observations						Chiselling / Slow Progress			General Remarks
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)	

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Cable Percussion	**Dando 4000**	**CJA**	**Jagan Raj**	JB AGS

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH306**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**08.10.24** End: **15.10.24**	**---**	**---**	**1** of **1**

Depth (m)	Samples & Testing: No	Type	Results	Mechanical Log: TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
										CONCRETE.	(0.90) 0.90	
0.90	1	ES								MADE GROUND: black mottled white sandy angular fine to coarse GRAVEL of various metals including iron and slag. Sand is coarse.	(1.10) 2.00	
										CONCRETE with ocassional rebar (<2cm). Borehole terminated due to reinforced concrete pile foundation.		

Boring Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress		
From	To	Duration (hh:mm)

General Remarks

1. Position scanned with a CAT, Genny and GPR prior to excavation.

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Cable Percussion + Rotary open hole	**Dando 3000 + Fraste**	**CJA**	**Jagan Raj**	JB AGS

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH306A**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	End: **17.10.24**	**---**	**---**	**1** of **1**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
						CONCRETE with frequent rebar (<5cm).	(0.90) 0.90	
1.00	1	ES				MADE GROUND: black and grey very gravelly fine to coarse SAND. Gravel is angular to subangular slag and concrete. (Fill Material)	1.10	
						No groundwater encountered. Terminated due to probable scrap metal obstruction at 1.1m bgl. Borehole reinstated on termination.		

Boring Progress and Water Observations

Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress

From	To	Duration (hh:mm)

General Remarks

1. Position scanned with a CAT, Genny and GPR prior to excavation.
2. Concreted cored to 0.90m bgl.
3. Groundwater not encountered.

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Cable Percussion	**Dando 4000**	**CJA**	**Jagan Raj**	JB AGS

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH306B**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**24.10.24** End: **11.11.24**	**---**	**---**	**1** of **4**

Depth (m)	Samples & Testing: No	Type	Results	Mechanical Log: TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
										CONCRETE with flint aggregate and frequent rebar (5cm).	(0.90) 0.90	
1.00	1	ES								MADE GROUND: dark grey silty SAND and GRAVEL. Gravel is angular to subangular fine to coarse slag, scrap metal and rare red brick. Sand is fine to coarse. (Fill Material) . . . Occassional cobbles of angular slag between 1.7m bgl and 2.0m bgl.	(1.10) 2.00	
										MADE GROUND: Dark grey angular COBBLES and BOULDERS of metallurgic material including scrap metal, steel slabs, plating and slag. (Fill Material)	(1.60) 3.60	
4.50-5.00 4.50	1 2	B ES								Greyish brown silty fine SAND. (Tidal Flat Deposits)	(2.70)	
5.00-5.45 5.00-5.45	1 2	SPT D	N=36							. . . Dense.		
5.50-6.00	3	B								. . . Becoming dark grey between 5.5m and 6.0m bgl.	6.30	
6.00-6.45 6.00-6.45	2 4	SPT D	N=12									
6.50-7.00	5	B								Soft to firm dark grey to greyish brown slightly sandy silty CLAY. Sand is fine. (Tidal Flat Deposits)		
7.00-7.15 7.00-7.45	3 6	SPT UT	1/1 for 75mm							. . . Very soft.	(2.20)	
7.50-8.00	7	B										
8.00-8.45 8.00-8.45	4 8	SPT D	N=12								8.50	
8.50-9.30	9	B								Greyish brown slightly sandy clayey SILT. Sand is fine. (Tidal Flat Deposits)		

Boring Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress		
From	To	Duration (hh:mm)

General Remarks

1. Position scanned with a CAT, Genny and GPR prior to excavation.
2. Inspection pit machine dug to 3.60m depth (23/10/24 to 01/11/24). Borehole advanced with cable percussion to 24.0m bgl (05/11/24) and then rotary open holed to 30.0m bgl (11/11/24)

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Cable Percussion + Rotary open hole	**13 Ton Tracked Excavator Dando 4000 + Fraste**	**CJA**	**Jagan Raj**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH306B**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**24.10.24** End: **11.11.24**	**---**	**---**	**2** of **4**

Depth (m)	Samples & Testing: No	Type	Results	Mechanical Log: TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
9.30-9.80	11	B								Greyish brown slightly sandy clayey SILT. Sand is fine. (Tidal Flat Deposits) *(stratum copied from 8.50m from previous sheet)*	(1.95)	
9.80-10.20	12	B										
10.20-10.65	13	UT									10.45	
10.65-10.80	14	D								Dark brown and brown stiff fibrous PEAT with a strong organic odour. (Tidal Flat Deposits)	(0.55)	
11.00-11.50	15	B									11.00	
11.50-11.95	5	SPT	N=7							Dark grey clayey firm fibrous PEAT. (Tidal Flat Deposits)	(1.50)	
11.50-11.95	16	D										
12.50-13.00	17	B									12.50	
13.00-13.45	18	UT								Dark grey silty CLAY. (Tidal Flat Deposits) . . . Occasional pockets of pseudo-fibrous peat.	(4.50)	
13.45-13.60	19	D										
14.00-14.50	20	B										
14.50-14.58	6	SPT	NP									
14.50-14.95	21	D										
15.50-16.00	22	B										
16.00-16.45	23	UT										
16.45-16.60	24	D									17.00	
17.00-17.50	25	B								Stiff dark greyish brown gravelly silty CLAY. Gravel is subangular to subrounded fine to coarse mudstone, siltstone and sandstone. (Weathered South Wales Middle Coal Measures)	(1.50)	
17.50-17.95	7	SPT	N=48									
17.50-17.95	26	D										

Boring Progress and Water Observations

Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress

From	To	Duration (hh:mm)

General Remarks

3. Groundwater encountered at 1.50m depth. Excavation frequently dewatered (30/10/24 - 01/11/24).

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Cable Percussion + Rotary open hole	**13 Ton Tracked ExcavatorDando 4000 + Fraste**	**CJA**	**Jagan Raj**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH306B**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**24.10.24** End: **11.11.24**	**---**	**---**	**3** of **4**

Depth (m)	Samples & Testing: No	Type	Results	Mechanical Log: TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
											18.50	
18.50-19.00	27	B								Very dense dark grey slightly sandy GRAVEL of subangular to subrounded fine to coarse mudstone, siltstone and sandstone. Sand is fine to coarse. (Weathered South Wales Middle Coal Measures)	(0.50)	
											19.00	
19.00-19.50	28	B								Dense to very dense dark greyish brown clayey fine to coarse SAND and subangular to subrounded fine to coarse GRAVEL of mudstone, siltstone and sandstone. (Weathered South Wales Middle Coal Measures Formation)		
19.50-19.95	8	SPT	N=42									
19.50-19.95	29	D										
20.50-21.00	30	B										
21.00-21.45	9	SPT	N=35								(4.60)	
22.00-22.50	32	B										
22.50-22.88	10	SPT	5,5/7,10,33 for 75mm									
											23.60	
23.60-24.10	34	B								Very dense dark greyish brown clayey subangular to subrounded fine to coarse GRAVEL of mudstone, sandstone and siltstone with moderate cobble content. Cobbles are subrounded sandstone. (Weathered South Wales Middle Coal Measures)		
24.00-24.45	11	SPT(c)	N=43							. . . Obstruction of two pale brown subrounded to rounded cobbles of coarse SANDSTONE. Recovered at approximately 24.0m bgl.	(4.20)	

Boring Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress		
From	To	Duration (hh:mm)

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Cable Percussion + Rotary open hole	**13 Ton Tracked Excavator Dando 4000 + Fraste**	**CJA**	**Jagan Raj**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH306B**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**24.10.24** End: **11.11.24**	**---**	**---**	**4** of **4**

Depth (m)	Samples & Testing: No	Type	Results	Mechanical Log: TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
27.00-27.40	12	SPT(c)	20,11/20,21,9,21 for 21mm								27.80	
										MUDSTONE. Recovered as dark greyish brown angular to subangular fine to coarse GRAVEL. (South Wales Middle Coal Measures Formation)	(2.32)	
29.00-29.23	13	SPT(c)	8,17/36,14 for 23mm									
30.00-30.12	14	SPT(c)	25/38,12 for 31mm								30.12	
										Groundwater encountered at 1.50m bgl. Backfilled with bentonite to 3.50m bgl on completion.		

Boring Progress and Water Observations						Chiselling / Slow Progress			General Remarks
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)	

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Cable Percussion + Rotary open hole	**13 Ton Tracked Excavator Dando 4000 + Fraste**	**CJA**	**Jagan Raj**	JB AGS

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH307**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**02.09.24** End: **06.09.24**	**---**	**E:277191.2 N:186662.0**	**1** of **4**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
						Concrete	0.40	
						MADE GROUND. Dark brown sandy angular to subangular GRAVEL with medium cobble content. Sand is fine to coarse. Gravel is fine to coarse of mixed lithologies including slag concrete limestone. Cobbles are angular fine to coarse of slag. Very compact.	(0.60) 1.00	
1.50-1.80	Es1	ES				Medium dense (from 3.00m) yellowish brown gravelly fine to coarse SAND. Gravel is angular to subrounded fine to coarse of weak sandstone. (Blown sands)		
2.50-3.00	1	B						
3.00-3.45	1	SPT(c)	N=13					
3.50-4.00	3	B						
4.00-4.45	2	SPT(c)	N=15			. . . Sand darker brown		
4.50-5.00	5	B					(7.00)	
5.00-5.45	3	SPT(c)	N=11					
5.50-6.00	7	B						
6.00-6.45	4	SPT(c)	N=18					
6.50-7.00	9	B						
7.50-7.95	5	SPT(c)	N=13					
							8.00	
8.00-8.50	11	B				Soft to firm grey slightly sandy silty CLAY. Sand is fine to coarse. (Tidal flat deposits)		

Boring Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress		
From	To	Duration (hh:mm)

General Remarks

1. Position scanned with a CAT, Genny and GPR prior to excavation.
2. Inspection pit hand dug to 2.4m depth.
3. Groundwater encountered at 2.40m depth.

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Cable Percussion	**Dando 4000**	**CJA**	**Adam Livesey**	

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FINAL

BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH307**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	End: **06.09.24**	**---**	**E:277191.2 N:186662.0**	**2** of **4**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
9.00-9.45	12	U	21 blows 20% recovery			Soft to firm grey slightly sandy silty CLAY. Sand is fine to coarse. (Tidal flat deposits) *(stratum copied from 8.00m from previous sheet)*	(3.00)	
9.45-9.50	13	D						
10.50-10.95	6	SPT	N=13					
10.50-10.95	14	D						
							11.00	
11.00-11.50	15	B				Soft to firm grey clayey SILT with medium pseudo fibrous peat content. (Tidal flat deposits)	(0.60)	
							11.60	
						Firm to stiff blackish reddish brown fibrous PEAT. Strong organic odour. (Tidal flat deposits)		
12.00-12.45	16	U	99 blows 11% recovery					
12.45-12.50	17	D					(2.20)	
13.50-13.95	7	SPT	N=13					
13.50-13.95	18	D						
							13.80	
						Soft to firm grey clayey SILT with medium pseudo fibrous peat content. (Tidal flat deposits)		
14.50-15.00	19	B					(2.00)	
15.00-15.45	20	U	16 blows 22% recovery					
15.45-15.50	21	D						
							15.80	
16.00-16.35	8	SPT	N=46			Dense becoming medium dense greyish brown slightly sandy clayey silty GRAVEL. Sand is fine to coarse. Gravel is fine to coarse subrounded to rounded of mixed lithologies including mudstone and sandstone. (Tidal flat deposits)		
							(4.20)	

Boring Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress		
From	To	Duration (hh:mm)

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Cable Percussion	**Dando 4000**	**CJA**	**Adam Livesey**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH307**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**02.09.24** End: **06.09.24**	**---**	**E:277191.2 N:186662.0**	**3** of **4**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
18.00-18.45	9	SPT	N=12			Dense becoming medium dense greyish brown slightly sandy clayey silty GRAVEL. Sand is fine to coarse. Gravel is fine to coarse subrounded to rounded of mixed lithologies including mudstone and sandstone. (Tidal flat deposits) *(stratum copied from 15.80m from previous sheet)*		
19.50-19.95	10	SPT	N=11				20.00	
						Very loose becoming dense brown clayey silty fine to coarse SAND. (Blown Sand)	(2.00)	
21.00-21.45	11	SPT	N=1				22.00	
						Very dense brown clayey fine to coarse GRAVEL. Gravel is subrounded to rounded of mixed lithologies including mudstone and sandstone. (Weathered South Wales Middle Coal Measures Formation).		
24.00-24.45	12	SPT	N=41				(4.50)	
25.50-25.75	13	SPT	7,9/17,33 for 20mm					
							26.50	
						Description on next sheet		

Boring Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress		
From	To	Duration (hh:mm)

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Cable Percussion	**Dando 4000**	**CJA**	**Adam Livesey**	

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FINAL

BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH307**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**02.09.24** End: **06.09.24**	**---**	**E:277191.2 N:186662.0**	**4** of **4**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
						Brown gravelly CLAY. Gravel is subangular to rounded fine to coarse of weathered mudstone. (Weathered South Wales Middle Coal Measures Formation). *(stratum copied from 26.50m from previous sheet)*	(1.10)	
						Mudstone. (South Wales Middle Coal Measures)	27.60	

Boring Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress		
From	To	Duration (hh:mm)

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Cable Percussion	**Dando 4000**	**CJA**	**Adam Livesey**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH308**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**27.08.24** End: **03.09.24**	**8.72**	**E:277155.2 N:186659.0**	**1** of **4**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
						CONCRETE.	0.40	
						MADE GROUND. Brown sandy angular fine to coarse GRAVEL of various lithologies including limestone, sandstone and slag with medium cobble content. Sand is fine to coarse. Cobbles are angular of slag. Very compact.	(0.50) 0.90	
						MADE GROUND. Black mottled dark brownish grey sandy slightly gravelly silty CLAY. Sand is fine to coarse. Gravel is angular fine to medium of wood and slag. Slight hydrocarbon odour. (Reworked)	(0.60) 1.50	
1.30 1.30	ES1	ES PID	0.0ppm			Loose (from 3.00m) becoming medium dense yellowish brown slightly gravelly fine to coarse SAND. Gravel is angular fine to coarse of weak sandstone. (Blown Sands)		
2.50-3.00	1	B						
3.00-3.45 3.00-3.50	1 3	SPT(c) B	N=9					
4.00-4.45	2	SPT(c)	N=7				(5.00)	
4.50-5.00	5	B						
5.00-5.45	3	SPT(c)	N=12					
5.50-6.00	7	B				. . . Colour change to dark brown		
6.00-6.45 6.00-6.45	4 8	SPT D	N=15				6.50	
6.50-7.00	9	B				Soft to firm grey sandy CLAY. Sand is fine to coarse. (Tidal flat deposits)		
7.50-7.95	10	U	30 blows				(2.50)	
						. . . Clay becomes silty and soft to very soft		
8.50-9.00	11	B					9.00	

Boring Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress		
From	To	Duration (hh:mm)

General Remarks

1. Position scanned with a CAT, Genny and GPR prior to excavation.
2. Inspection pit machine dug to 2.20m depth. 300mm diameter pipe installed prior to backfilling to allow cable percussive drilling to commence.
3. Groundwater encountered at 2.10m depth.

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Cable Percussion	**Dando 4000**	**CJA**	**Kieran Bancroft**	JB AGS

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FINAL

BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH308**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**27.08.24** End: **03.09.24**	**8.72**	**E:277155.2 N:186659.0**	**2** of **4**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
9.00-9.45	5	SPT	N=11			Grey sandy clayey SILT. Sand is fine to medium. (Tidal flat deposits)	(2.90)	
9.00-9.45	12	D						
9.50-10.00	13	B						
10.50-10.95	14	U	50 blows					
11.50-12.00	15	B					11.90	
12.00-12.45	6	SPT	N=9			Firm reddish brown fibrous PEAT. Moderate organic odour. (Tidal flat deposits)	(2.50)	
12.00-12.45	16	D						
12.50-13.00	17	B						
13.00-13.45	7	SPT	N=22					
13.50-13.95	18	D					14.40	
14.50-15.00	18	B				Soft to firm grey silty CLAY with rare evidence of fine peat. (Tidal flat deposits)	(3.10)	
15.00-15.45	19	U	14 blows					
16.00-16.50	20	B						
16.50-16.95	8	SPT	N=3					
16.50-16.95	21	D					17.50	
17.50-18.00	22	B				*Description on next sheet*		

Boring Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress		
From	To	Duration (hh:mm)

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Cable Percussion	**Dando 4000**	**CJA**	**Kieran Bancroft**	JB AGS

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH308**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**27.08.24** End: **03.09.24**	**8.72**	**E:277155.2 N:186659.0**	**3** of **4**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
18.00-18.45	9	SPT(c)	N=32			Very dense becoming medium dense brown slightly sandy clayey silty GRAVEL with low cobble content. Sand is fine to coarse. Gravel is fine to coarse subangular to rounded of mudstone, siltstone and sandstone. Cobbles are subangular to subrounded of mudstone. (Weathered South Wales Middle Coal Measures Formation). *(stratum copied from 17.50m from previous sheet)*	(2.80)	
19.00-19.50	24	B				. . . Gravels and cobbles very loose, casing occasionally drops.		
19.50-19.95	10	SPT	N=28				20.30	
20.50-21.00	26	B				Firm brown slightly sandy gravelly silty CLAY. Sand is fine. Gravel is subangular to rounded fine to coarse of mudstone siltstone and sandstone. (Weathered South Wales Middle Coal Measures Formation).	(1.50)	
21.00-21.45	11	SPT(c)	N=12					
21.50-22.00	28	B					21.80	
22.50-22.95	12	SPT(c)	N=28			Stiff brown gravelly slightly sandy CLAY. Sand is fine to coarse. Gravel is subrounded to rounded fine to coarse of mudstone. (Weathered South Wales Middle Coal Measures Formation). . . . Increase in gravel	(3.20)	
23.50-24.00	30	B						
24.00-24.45	13	SPT(c)	N=22				25.00	
25.00-25.50	32	B				Dense brown sandy fine to coarse GRAVEL. Sand is fine to coarse. Gravel is subangular to subrounded of mudstone and sandstone. (Weathered South Wales Middle Coal Measures Formation).	(1.00)	
25.50-25.95	14	SPT(c)	N=37				26.00	
26.50-27.00	34	B				Firm brown gravelly slightly sandy CLAY. Sand is fine to coarse. Gravel is subrounded to rounded fine to coarse of mudstone. (Weathered South Wales Middle Coal Measures Formation).	(1.90)	

Boring Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress		
From	To	Duration (hh:mm)

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Cable Percussion	**Dando 4000**	**CJA**	**Kieran Bancroft**	JB AGS

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH308**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**27.08.24** End: **03.09.24**	**8.72**	**E:277155.2 N:186659.0**	**4** of **4**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
27.00-27.45	15	SPT(c)	N=44			Firm brown gravelly slightly sandy CLAY. Sand is fine to coarse. Gravel is subrounded to rounded fine to coarse of mudstone. (Weathered South Wales Middle Coal Measures Formation). *(stratum copied from 26.00m from previous sheet)*	27.90	
27.90	36	D				Mudstone with coal fragments. (Weathered South Wales Middle Coal Measures)	(0.55)	
28.00-28.15	16	SPT(c)	25/50 for 75mm				28.45	

Boring Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress		
From	To	Duration (hh:mm)

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Cable Percussion	**Dando 4000**	**CJA**	**Kieran Bancroft**	JB

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH309**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**22.07.24** End: **25.07.24**	**9.17**	**E:277127.5 N:186684.5**	**1** of **4**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
						MADE GROUND: dark greyish brown very sandy GRAVEL with low cobble content. Sand is fine to coarse. Gravel is fine to coarse angular to subangular of mixed lithologies including slag, concrete, clinker brick and rebar. Cobbles are angular to subangular of slag and concrete.	(0.60)	
0.50-0.60	1	ES					0.60	
						. . . Concrete slab	0.80	
						. . . Dense compact slag, concrete		
						MADE GROUND: Brown gravelly fine to coarse SAND. Gravel is fine to coarse angular to subrounded of slag.	(0.90)	
						MADE GROUND: Brown very gravelly SAND with low cobble content. Sand is fine to coarse. Gravel is fine to coarse angular to subangular of mixed lithologies including slag, concrete, clinker brick. Cobbles are angular to subangular of slag and concrete.	1.70	
1.70-1.80	2	ES						
2.00-2.20	1	B					2.10	
						. . . Dense compact slag, concrete		
						. . . No cobbles from 1.4		
						NATURAL: Yellow slightly gravelly clayey fine to coarse SAND. Gravel is angular to subrounded of sandstone. (BLOWN SAND)		
3.00-3.45	1	SPT	N=7			Loose becoming medium dense brown fine to coarse SAND. (BLOWN SAND)		
3.00-3.45	2	D						
3.50-4.00	3	B			1			
4.00-4.45	2	SPT	N=16					
4.00-4.45	4	D						
4.50-5.00	5	B						
5.00-5.45	3	SPT	N=25			. . . Sand becoming silty and clayey.		
5.00-5.45	6	D						
5.50-6.00	7	B					(6.90)	
6.00-6.45	4	SPT	N=24					
6.00-6.45	8	D						
6.50-7.00	9	B						
7.00-7.50	10	B						
7.50-7.95	5	SPT	N=6					
7.50-7.75	11	D						
8.00-8.50	12	B						
							9.00	

Boring Progress and Water Observations

Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress

From	To	Duration (hh:mm)
21.50	22.00	00:45
22.50	22.75	00:45
23.10	23.50	00:30
27.50	28.30	00:35
29.00	30.00	01:00

General Remarks

1. Position scanned with a CAT, Genny and GPR prior to excavation.
2. Inspection pit hand dug to 2.1m depth.

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Cable Percussion	**Dando 3000**	**CJA**	**Adam Livesey**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH309**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	End: **25.07.24**	**9.17**	**E:277127.5 N:186684.5**	**2** of **4**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
9.00-9.45	6	SPT	N=5			Soft grey sandy silty CLAY. Sand is fine to coarse. (TIDAL FLAT DEPOSITS)		
9.50-10.00	14	B						
						. . . Occasional pockets of fibrous peat	(2.00)	
10.50-10.95	15	D					11.00	
11.00-11.50	16	B				Brown fibrous PEAT comprising a soft to firm grey sandy silty CLAY matrix. Sand is fine to coarse. Moderate organic odour. (TIDAL FLAT DEPOSITS)	(1.50)	
12.00-12.50	17	U	42 blows				12.50	
12.50-12.65	18	D				Grey slightly sandy clayey SILT. Sand is fine to medium. (TIDAL FLAT DEPOSITS)		
12.65-13.00	19	B						
13.50-13.95	7	SPT	N=7					
13.50-13.95	20	D					(3.50)	
14.50-15.00	21	B						
15.00-15.45	8	SPT	N=2					
15.00-15.45	22	D						
15.50-16.00	23	B					16.00	
16.50-17.00	24	U	7 blows			Grey brown slightly gravelly silty CLAY with pockets of fine to medium brown and grey sand. Gravel is subangular to subrounded of mudstone. (Weathered South Wales Middle Coal Measures Formation).	(1.00)	
17.00-17.20	25	D				Dense greyish brown slightly sandy clayey GRAVEL with low cobble content. Sand is fine to coarse. Gravel is fine to coarse angular to rounded of mudstone and sandstone. (Weathered South Wales Middle Coal Measures Formation).	17.00	
17.20-18.00	26	B					(1.50)	

Boring Progress and Water Observations

Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress

From	To	Duration (hh:mm)

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Cable Percussion	**Dando 3000**	**CJA**	**Adam Livesey**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH309**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**22.07.24** End: **25.07.24**	**9.17**	**E:277127.5 N:186684.5**	**3** of **4**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
18.00-18.45	9	SPT	N=30					
18.00-18.45	27	D					18.50	
18.50-19.50	28	B				Stiff brown very gravelly silty CLAY. Gravel is fine to coarse angular to rounded of mudstone, sandstone and coal fragments. (Weathered South Wales Middle Coal Measures Formation).		
19.50-19.95	10	SPT	N=33					
19.50-19.95	29	B						
20.00-20.50	30	B					(4.00)	
21.00-21.45	11	SPT	N=20			. . . Low cobble content of mudstone		
21.00-21.45	31	D						
21.50-22.00	32	B					22.50	
22.50-22.73	12	SPT	7,9/45,5 for 6mm			Very dense becoming dense grey brown clayey silty subangular to subrounded fine to coarse GRAVEL and subrounded to rounded COBBLES of mudstone and sandstone		
22.50-22.95	33	B						
23.00-23.50	34	B					(2.00)	
24.00-24.45	13	SPT	N=30					
24.00-24.45	35	B					24.50	
24.50-25.00	36	B				Very dense grey brown gravelly silty CLAY. Gravel is fine to coarse rounded to subrounded of mudstone. (Weathered South Wales Middle Coal Measures Formation).		
25.50-25.89	14	SPT	7,11/12,16,16,6 for 11mm				(2.50)	
25.50-25.95	37	B						
26.00-26.50	38	B					27.00	

Boring Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress		
From	To	Duration (hh:mm)

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Cable Percussion	**Dando 3000**	**CJA**	**Adam Livesey**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH309**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	End: **25.07.24**	**9.17**	**E:277127.5 N:186684.5**	**4** of **4**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
27.00-27.35	15	SPT	8,10/15,17,18 for 52mm			MUDSTONE. Recovered as weak grey mudstone. (SOUTH WALES COAL MEASURES).		
27.00-27.45	39	B						
27.50-28.00	40	B						
28.00-28.10	16	SPT	11,14/50 for 8mm					
28.50-29.00	41	B					(3.12)	
29.00-29.80	42	B						
29.80-30.00	43	B					30.12	

Boring Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress		
From	To	Duration (hh:mm)

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Cable Percussion	**Dando 3000**	**CJA**	**Adam Livesey**	JB

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH310**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**03.09.24** End: **05.09.24**	**9.34**	**E:277095.1 N:186653.7**	**1** of **4**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
						MADE GROUND. Compact blackish brown sandy clayey GRAVEL. Sand is fine to coarse. Gravel is angular to subrounded fine to coarse of mixed lithologies including slag concrete sandstone and occassional metal, rebar and timber.	(1.10)	
						. . . Reddish brown buried timber		
1.00-1.40	Es1	ES				. . . Large metal strip	1.10	
						MADE GROUND. Soft to firm dark greyish brown gravelly slightly sandy CLAY with rare pockets of light brown fine to coarse sand. Gravel is angular to subangular of mixed lithologies including slag concrete sandstone.	(1.90)	
						. . . Concrete boulder		
							3.00	
						Loose (from 3.00m) becoming very dense light brown gravelly fine to coarse SAND. Gravel is fine to coarse subrounded of weak sandstone. (Blown sands)		
3.50-4.00	1	B						
4.00-4.45	1	SPT(c)	N=8					
4.50-5.00	2	B						
5.00-5.45	2	SPT(c)	N=60				(4.00)	
5.00-6.00	3	B						
6.00-6.45	3	SPT(c)	N=66					
						. . . Sand becomes a darker brown and clayey.		
							7.00	
7.00-7.50	4	B				Very soft grey sandy silty CLAY with rare evidence of pseudo fibrous peat. Sand is fine to coarse. (Tidal flat deposits)		
7.50-7.95	5	U	10 blows 22% recovery					
8.50-9.00	6	B						

Boring Progress and Water Observations

Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress

From	To	Duration (hh:mm)

General Remarks

1. Position scanned with a CAT, Genny and GPR prior to excavation.
2. Inspection pit hand dug to 3m depth.
3. Groundwater encountered at 3.31m depth at start of shoift 04/09

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Cable Percussion	**Dando 4000**	**CJA**	**Adam Livesey**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH310**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**03.09.24** End: **05.09.24**	**9.34**	**E:277095.1 N:186653.7**	**2** of **4**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
9.00-9.45	4	SPT	N=4			Very soft grey sandy silty CLAY with rare evidence of pseudo fibrous peat. Sand is fine to coarse. (Tidal flat deposits) *(stratum copied from 7.00m from previous sheet)*	(4.50)	
9.00-9.45	7	D						
10.00-10.50	8	B						
10.50-10.95	9	U	9 blows 22% recovery					
11.00-11.45	5	SPT	N=2					
							11.50	
11.50-12.00	10	B				Very soft grey slightly sandy clayey SILT. Sand is fine to medium. (Tidal flat deposits)	(1.10)	
12.00-12.50	11	D						
							12.60	
12.60-13.00	12	B				Firm reddish brown fibrous PEAT. Strong organic odour. (Tidal flat deposits)	(0.60)	
							13.20	
13.20-13.50	13	B				Soft to firm sandy silty CLAY. Sand is fine to coarse. (Tidal flat deposits)	(1.30)	
13.50-13.95	14	U	13 blows 22% recovery					
13.95-14.05	15	D						
							14.50	
14.50-15.00	16	B				Soft to firm grey clayey SILT with low pseudo fibrous peat content. (Tidal flat deposits)		
15.00-15.45	6	SPT	N=2					
15.00-15.45	17	D						
16.00-16.50	18	B						
16.50-16.95	19	U	11 blows 22% recovery					
17.50-18.00	20	B						

Boring Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress		
From	To	Duration (hh:mm)

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Cable Percussion	**Dando 4000**	**CJA**	**Adam Livesey**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH310**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**03.09.24** End: **05.09.24**	**9.34**	**E:277095.1 N:186653.7**	**3** of **4**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
18.00-18.45	7	SPT	N=5			Soft to firm grey clayey SILT with low pseudo fibrous peat content. (Tidal flat deposits) *(stratum copied from 14.50m from previous sheet)*	(7.30)	
18.00-18.50	21	D						
19.00-19.50	22	B						
19.50-19.95	23	U	20 blows 22% recovery					
20.50-21.00	24	B						
21.00-21.45	8	SPT	N=5					
21.00-21.45	25	D					21.80	
21.80-22.50	26	B				Very stiff brown soft to firm gravelly CLAY with medium cobble content. Gravel is fine to coarse subrounded to rounded of mudstone siltstone. Cobbles are rounded of mudstone. (Weathered South Wales Middle Coal Measures Formation).	(7.90)	
22.50-22.95	9	SPT(c)	N=29					
23.50-24.00	27	B						
24.00-24.45	10	SPT(c)	N=42					

Boring Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress		
From	To	Duration (hh:mm)

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Cable Percussion	**Dando 4000**	**CJA**	**Adam Livesey**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH310**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**03.09.24** End: **05.09.24**	**9.34**	**E:277095.1 N:186653.7**	**4** of **4**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
						Very stiff brown soft to firm gravelly CLAY with medium cobble content. Gravel is fine to coarse subrounded to rounded of mudstone siltstone. Cobbles are rounded of mudstone. (Weathered South Wales Middle Coal Measures Formation). *(stratum copied from 21.80m from previous sheet)*		
							29.70	
						Rockhead mudstone. (South Wales Middle Coal Measures) . . . Very little weathered bedrock before 29.7		

Boring Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress		
From	To	Duration (hh:mm)

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Cable Percussion	**Dando 4000**	**CJA**	**Adam Livesey**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH311**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**11.07.24** End: **18.07.24**	**16.23**	**E:277024.2 N:186704.4**	**1** of **5**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
						MADE GROUND: Grey brown clayey subangular to subrounded fine to coarse GRAVEL and COBBLES of slag and clinker.	(0.50) 0.50	
0.50	1	ES				MADE GROUND: Dark grey brown fine to coarse SAND and GRAVEL of subangular to subrounded slag, clinker and brick. . . . Brown angular cobbles of brick on eastern face of excavation.	(3.20)	
1.50	2	ES						
2.50	3	ES						
3.50	4	ES					3.70	
						MADE GROUND: Grey brown slightly gravelly clayey SAND. gravel is subangular to subrounded fine to coarse brick and slag.	(0.50) 4.20	
4.20	5	ES				MADE GROUND. Greyish brown clayey GRAVEL. Gravel is angular to subrounded of slag, tarmac.	(0.80) 5.00	
4.50-5.00	1	B						
5.00-5.45	1	SPT(c)	N=12			MADE GROUND. Medium dense grey very gravelly CLAY. Gravel is fine to coarse angular to subrounded of tarmac, mudstone and slag comprising clay matrix.	(4.00)	
5.50-6.00	2	B						
6.45-6.50	3	D						
7.50-7.95	2	SPT	N=4			. . . Becoming very loose at 7.50mbgl.		
8.00-8.50	4	B				. . . Occassional cobbles of slag.	9.00	

Boring Progress and Water Observations

Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth
11/07/24			7.00	N/R	
12/07/24			18.70	N/R	Dry
17/07/24	08:00	19.50	19.00	N/R	9.00
18/07/24			36.50	N/R	
19/07/24	08:30	36.50	36.50	N/R	9.00

Chiselling / Slow Progress

From	To	Duration (hh:mm)
19.50	20.00	01:30
30.00	32.00	00:30
34.50	35.00	00:30
35.50	36.70	01:20
36.75	37.00	01:00

General Remarks

1. Position scanned with a CAT, Genny and GPR prior to excavation.
2. Inspection pit mechanically dug to 4.2m depth on 09/07/24 prior to cable percussion borehole.
3. Accidental cpt instead of spt at 7.5m
4. Borehole collapse and redrilling through sand

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Cable Percussion	**Dando 3000**	**CJA**	**Jagan Raj**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH311**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	End: **18.07.24**	**16.23**	**E:277024.2 N:186704.4**	**2** of **5**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
9.00-9.94	5	B				Blackish grey sandy clayey GRAVEL with medium cobble content of slag. Gravel is angular to subangular of slag. Cobbles subangular to subrounded.	(1.50)	
10.00-10.50	6	B					10.50	
10.50-10.95	3	SPT	N=41			Dense grey clayey fine to medium SAND. (BLOWN SAND)		
11.50-12.00	7	D				. . . Becoming brown with depth.		
12.00-12.45	4	SPT	N=45				(4.50)	
12.00-12.45	8	D						
13.50-13.95	5	SPT	N=40				15.00	
15.00-15.45	6	SPT	N=36			Dense dark brown clayey fine to medium SAND. (BLOWN SAND)		
16.95-17.40	7	SPT(c)	N=46				(3.75)	

Boring Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress		
From	To	Duration (hh:mm)

General Remarks

from 30m to 33m on 18/07/24.

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Cable Percussion	**Dando 3000**	**CJA**	**Jagan Raj**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH311**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	End: **18.07.24**	**16.23**	**E:277024.2 N:186704.4**	**3** of **5**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
18.00-18.45	42	U	99 blows			Dense dark brown clayey fine to medium SAND. (BLOWN SAND) *(stratum copied from 15.00m from previous sheet)*	18.75	
						Stiff brown fibrous PEAT. (TIDAL FLAT DEPOSITS)	(1.25)	
19.50-19.95	8	SPT	N=26				20.00	
19.50-19.95	23	D						
20.00-20.50	24	B				Stiff dark grey sandy silty organic CLAY with occasional pockets of fibrous brown peat (3cm). (TIDAL FLAT DEPOSITS)		
21.00-21.45	9	SPT	N=34					
21.00-21.45	25	D						
21.50-22.00	26	B						
22.50-22.95	27	U	28 blows				(6.00)	
24.00-24.45	10	SPT	N=37					
24.00-24.45	30	D						
25.00-25.50	31	B						
25.50-25.95	32	U	70 blows					
25.95-26.00	33	D					26.00	
26.00-26.50	34	B				Dense dark grey silty SAND. (TIDAL FLAT DEPOSITS)		

Boring Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress		
From	To	Duration (hh:mm)

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Cable Percussion	**Dando 3000**	**CJA**	**Jagan Raj**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH311**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**11.07.24** End: **18.07.24**	**16.23**	**E:277024.2 N:186704.4**	**4** of **5**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
27.00-27.45	11	SPT	N=49			Dense dark grey silty SAND. (TIDAL FLAT DEPOSITS) *(stratum copied from 26.00m from previous sheet)*	(3.50)	
27.00-27.45	35	D						
27.45-28.00	36	B						
28.50-28.95	12	SPT	N=41					
28.50-28.95	37	D						
29.00-29.50	28	D					29.50	
29.50-30.00	29	B				Very stiff dark grey very gravelly CLAY. Gravel is subangular to subrounded fine to coarse siltstone and mudstone with some cobble content of subangular to subrounded mudstone and siltstone. (Weathered South Wales Middle Coal Measures Formation)	(0.50)	
30.00-30.23	13	SPT	11,16/50 for 75mm			. . . BOULDER encountered at 29.5m bgl.	30.00	
30.00-30.20	30	D				Very dense dark grey sandy fine to coarse GRAVEL of mudstone, sandstone and siltstone. (Weathered South Wales Middle Coal Measures Formation)	(2.50)	
30.50-31.00	31	B						
32.00-32.50	32	D					32.50	
32.50-33.00	33	B				Dark grey brown fine to coarse SAND and subrounded to rounded fine GRAVEL of siltstone, mudstone and sandstone.	(0.50)	
33.00-33.50	34	B				Dense grey brown clayey subangular to subrounded coarse GRAVEL and subangular to subrounded COBBLES of mudstone. (Weathered South Wales Middle Coal Measures Formation)	33.00	
33.50-33.95	14	SPT	N=31					
33.50-33.95	35	D						
34.00-34.50	36	B					(3.00)	
35.00-35.35	37	D						
35.50-36.00	38	B					36.00	

Boring Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress		
From	To	Duration (hh:mm)

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Cable Percussion	**Dando 3000**	**CJA**	**Jagan Raj**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH311**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**11.07.24** End: **18.07.24**	**16.23**	**E:277024.2 N:186704.4**	**5** of **5**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
36.50-36.73	15	SPT	10,13/50 for 75mm			MUDSTONE. Recovered as dark grey brown angular to subangular fine to coarse GRAVEL of mudstone. (SOUTH WALES COAL MEASURES)	(1.45)	
36.50-36.75	39	D						
36.75-37.00	40	D						
37.00-37.08	16	SPT(c)	NP					
37.00-37.20	41	B						
							37.45	
						Borehole terminated on refusal at 37.2m bgl upon reaching bedrock.		

Boring Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress		
From	To	Duration (hh:mm)

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Cable Percussion	**Dando 3000**	**CJA**	**Jagan Raj**	JB

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH312**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**08.07.24** End: **16.07.24**	**15.86**	**E:277040.9 N:186643.8**	**1** of **5**

Depth (m)	Samples & Testing: No	Type	Results	Mechanical Log: TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
0.50	1	ES								MADE GROUND: grey clayey GRAVEL with some cobble content. Gravel is subangular to subrounded fine to coarse metal, slag, clinker, concrete and rare brick. Cobbles are subrounded slag.	(1.20) 1.20	
1.50	2	ES								MADE GROUND: grey brown clayey fine to coarse SAND and subangular to subrounded fine to coarse GRAVEL of concrete, brick and slag with moderate ash content.	(1.50) 2.70	
2.70	3	ES								MADE GROUND: brown gravelly CLAY. Gravel is subangular to subrounded fine to coarse slag.	(1.00) 3.70	
3.00-3.50	1	B										
3.50-4.00	2	B										
3.70	4	ES								MADE GROUND: dark green grey slightly gravelly CLAY with a slight organic odour. Gravel is subangular to subrounded fine to coarse slag, rubber, plastic, brick.	4.00	
4.00-4.50	3	B								. . . Remains of rubber tyre recovered approximately 1m in diameter.		
5.00-5.45	1	SPT	N=9							MADE GROUND: Loose (from 5.00m) dark grey clayey fine to coarse SAND and subangular to subrounded fine to coarse GRAVEL of brick, clinker and slag with moderate ash content.	(2.00) 6.00	
5.00-5.45	5	D										
5.00-5.50	6	B										
5.50-6.00	7	B								. . . Band of dark grey slightly sandy clay. sand is fine to coarse.		
6.00-6.38	2	SPT	5,6/13,18,19 for 75mm							Very dense yellow brown SAND. (BLOWN SAND)	(0.50) 6.50	
6.00	5	ES										
6.00-6.38	8	D										
7.00-7.18	3	SPT	8,17/50 for 45mm							Very dense yellow brown poorly cemented subrounded to rounded course GRAVEL of sandstone with some cobble content of like material.	(1.00) 7.50	
7.50-7.68	11	D								Very dense yellow brown fine to coarse SAND. (BLOWN SAND)		
8.50-9.20	12	B										

Boring Progress and Water Observations

Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth
09/07/24	16:00	12.00	12.00	N/R	10.00
10/07/24	08:30	10.52	12.00	N/R	8.71
10/07/24	16:00	18.50	18.00	N/R	8.00
11/07/24	08:30	16.60	18.00	N/R	13.30
11/07/24	16:00	30.50	30.50	N/R	23.00
12/07/24	08:30	28.53	30.50	N/R	16.52
12/07/24	14:00	32.20	32.20	N/R	15.40

Chiselling / Slow Progress

From	To	Duration (hh:mm)
6.50	6.80	00:30
7.10	7.30	00:45
8.20	8.30	00:15
30.20	30.50	01:00
30.50	31.50	03:00
31.50	32.20	03:00

General Remarks

1. Position scanned with a CAT, Genny and GPR prior to excavation.
2. Inspection pit mechanically dug to 4.1m depth on 08/07/24 prior to cable percussion.

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Cable Percussion + Rotary open hole	**Dando 3000 + Beretta T.51**	**CJA**	**Jagan Raj**	JB AGS

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH312**

Contract Ref:	Start: **08.07.24**	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	End: **16.07.24**	**15.86**	**E:277040.9 N:186643.8**	**2** of **5**

Depth (m)	Samples & Testing: No	Type	Results	Mechanical Log: TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
9.20-9.35	4	SPT	15,10/32,18 for mm							Very dense yellow brown fine to coarse SAND. (BLOWN SAND) *(stratum copied from 7.50m from previous sheet)*	(4.00)	
9.20-9.45	13	D										
10.00-10.50	14	B								. . . Becoming green grey.		
10.50-11.00	16	B										
10.95-11.40	5	SPT	N=11							. . . Becoming medium dense at 10.95mbgl.	11.50	
12.00-12.45	6	SPT	N=7							Loose and occasionally medium dense dark green grey silty fine SAND. (TIDAL FLAT DEPOSITS)		
12.00-12.50	19	B										
13.00-13.50	20	B										
13.50-13.95	7	SPT	N=18								(4.50)	
13.50-13.95	21	D										
14.00-14.50	22	B								. . . Becoming dark grey brown and clayey.		
14.50-15.00	23	B										
15.00-15.45	8	SPT	N=6							. . . Becoming loose at 15.0mbgl.	16.00	
15.00-15.45	24	D										
16.00-16.50	25	B								Soft dark grey silty CLAY. (TIDAL FLAT DEPOSITS)	(2.00)	
											18.00	

Boring Progress and Water Observations

Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress

From	To	Duration (hh:mm)

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Cable Percussion + Rotary open hole	**Dando 3000 + Beretta T.51**	**CJA**	**Jagan Raj**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH312**

Contract Ref:	Start: **08.07.24**	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	End: **16.07.24**	**15.86**	**E:277040.9 N:186643.8**	**3** of **5**

Depth (m)	Samples & Testing: No	Type	Results	Mechanical Log: TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
18.00-18.45	9	SPT	N=34							Stiff brown fibrous PEAT. (TIDAL FLAT DEPOSITS)	(1.50)	
19.00-19.50	26	B									19.50	
19.50-19.95	27	U	27 blows 22% recovery							Stiff grey peaty clayey SILT. Moderate organic odour. (TIDAL FLAT DEPOSITS)		
19.95-20.10	28	D										
20.50-21.00	29	B										
20.50-21.00	33	B										
21.00-21.45	10	SPT	N=6							. . . Becoming soft at 21.0mbg		
21.00-21.45	30	D										
22.00-22.50	31	B										
22.50-22.95	32	U	16 blows 22% recovery									
22.95-23.10	33	D									(7.50)	
24.00-24.45	11	SPT	N=4									
24.00-24.45	34	D										
25.00-25.50	35	B										
25.50-25.95	36	U	36 blows 22% recovery									
25.95-26.10	37	D										
26.50-27.00	38	B									27.00	

Boring Progress and Water Observations

Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress

From	To	Duration (hh:mm)

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Cable Percussion + Rotary open hole	**Dando 3000 + Beretta T.51**	**CJA**	**Jagan Raj**	JB AGS

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH312**

Contract Ref:	Start: **08.07.24** End: **16.07.24**	Ground Level:	National Grid Co-ordinate:	Sheet:
315531		**15.86**	**E:277040.9 N:186643.8**	**4** of **5**

Depth (m)	Samples & Testing: No	Type	Results	Mechanical Log: TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
27.00-27.45	12	SPT	N=14							Firm greyish brown sandy clayey silty PEAT.	(0.70)	
27.00-27.45	39	D									27.70	
28.00-28.50	40	B								Firm greyish brown very gravelly sandy silty CLAY with low cobble content. Sand is fine to medium. Gravel is fine to coarse subangular to subrounded of Mudstone siltstone. Cobbles are subangular to subrounded of mudstone siltstone. (Weathered South Wales Middle Coal Measures Formation).	(4.50)	
28.50-29.00	41	D										
31.00-31.50	50	B										
31.50-31.73	13	SPT	25,33/17 for 75mm								32.20	
31.50-31.73	51	D								BOULDER of sandstone. (Weathered South Wales Middle Coal Measures Formation).	(0.80)	
											33.00	
										Clay. (Drillers Description) (Weathered South Wales Middle Coal Measures Formation).	(1.70)	
											34.70	
35.00-35.08	14	SPT(c)	25,33/17/100 for 75mm							Mudstone. (Drillers Description) (SOUTH WALES COAL MEASURES)		

Boring Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress		
From	To	Duration (hh:mm)

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Cable Percussion + Rotary open hole	**Dando 3000 + Beretta T.51**	**CJA**	**Jagan Raj**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH312**

Contract Ref:	Start: **08.07.24** End: **16.07.24**	Ground Level:	National Grid Co-ordinate:	Sheet:
315531		**15.86**	**E:277040.9 N:186643.8**	**5** of **5**

Depth (m)	Samples & Testing: No	Type	Results	Mechanical Log: TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
38.00-38.08	15	SPT(c)	25,33/17/100/100 for 75mm							Mudstone. (Drillers Description) (SOUTH WALES COAL MEASURES) *(stratum copied from 34.70m from previous sheet)*	(3.75) 38.45	

Boring Progress and Water Observations						Chiselling / Slow Progress			General Remarks
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)	

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Cable Percussion + Rotary open hole	**Dando 3000 + Beretta T.51**	**CJA**	**Jagan Raj**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH313**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**19.09.24** End: **25.09.24**	**---**	**E:277293.0 N:186650.0**	**1** of **4**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
						CONCRETE	0.20	
0.20-0.80	1	B				MADE GROUND : Dark brownish grey to black silty sandy angular fine to coarse GRAVEL of slag, tarmac, brick, concrete. Sand is fine to coarse. Rare angular cobbles of sandstone.	(1.00)	
0.50	Es1	ES						
0.80-1.20	2	B						
1.00	Es2	ES					1.20	
1.20-1.65	1	SPT(c)	N=11			MADE GROUND: Medium dense yellow brown slightly gravelly fine to coarse SAND. Gravel is angular fine to coarse of slag and sandstone. (Reworked natural).		
1.20-1.60	3	B						
1.60-2.00	4	B					(1.80)	
2.00-2.45	2	SPT(c)	N=16					
2.00-2.50	5	B						
2.50-3.00	6	B					3.00	
3.00-3.45	3	SPT(c)	N=7			Loose yellow brown fine to coarse SAND. (BLOWNSAND).		
3.60-4.10	8	B						
4.10-4.55	4	SPT(c)	N=7			. . . Becomes greyish brown at 4.0m bgl		
4.10-4.55	9	D						
4.60-5.10	10	B					(4.00)	
5.10-5.60	11	B			1			
5.60-6.10	12	B						
6.10-6.55	6	SPT	N=28			. . . Becomes medium dense at 6.1m bgl.		
6.10-6.60	13	B						
							7.00	
7.00-7.50	14	B				Firm greyish brown silty CLAY. (TIDAL FLAT DEPOSITS)		
7.50-7.95	7	SPT	N=12			. . . Because firm at 7.5m bgl.		
7.50-7.95	15	D						
8.40-8.85	8	SPT	N=12				(3.00)	
8.50-9.00	16	B						

Boring Progress and Water Observations

Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress

From	To	Duration (hh:mm)

General Remarks

1. Position scanned with a CAT, Genny and GPR prior to excavation.
2. Inspection pit hand dug to 1.2m depth.
3. Groundwater encountered at 5.6m depth.
4. Chiselling 26.80-27.00m for 1 hour, Chiselling 27.50-27.80m for 1 hour 15mins.

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Cable Percussion	**Dando 3000**	**CJA**	**Rachael Lockyer**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH313**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**19.09.24** End: **25.09.24**	**---**	**E:277293.0 N:186650.0**	**2** of **4**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
9.00-9.45	17	UT	25 blows 100% recovery			Firm greyish brown silty CLAY. (TIDAL FLAT DEPOSITS) *(stratum copied from 7.00m from previous sheet)*		
9.45-9.60	18	D					10.00	
10.00-10.75	19	B				Soft to firm greyish brown slightly sandy silty CLAY with frequent shells. Sand is fine. (TIDAL FLAT DEPOSITS)		
10.70-11.15	20	D					(1.60)	
11.60-12.10	21	B				Firm to stiff dark brown mottled orange brown fibrous PEAT. (TIDAL FLAT DEPOSITS).	11.60	
12.10-12.55	22	UT	46 blows 100% recovery				(0.80)	
12.55-12.70	23	D				Soft to firm greyish brown slightly sandy silty CLAY with frequent shells. Sand is fine. (TIDAL FLAT DEPOSITS)	12.40	
13.00-13.60	24	B						
13.60-14.05	9	SPT	N=5			. . . Becomes soft at 13.6m bgl		
13.60-14.05	25	D						
14.50-15.00	26	B						
15.00-15.45	27	UT	8 blows 70% recovery				(5.60)	
15.45-15.60	28	D						
16.00-16.50	29	B						
16.50-16.95	11	SPT	N=8					
16.50-16.95	30	D						
17.50-18.00	31	B					18.00	

Boring Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress		
From	To	Duration (hh:mm)

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Cable Percussion	**Dando 3000**	**CJA**	**Rachael Lockyer**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH313**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**19.09.24** End: **25.09.24**	**---**	**E:277293.0 N:186650.0**	**3** of **4**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
18.00-18.45	32	UT	40 blows 100% recovery			Dense brown subangular to subrounded fine to coarse GRAVEL of mudstone and sandstone. (GLACIOFLUVIAL DEPOSITS)		
18.45-18.60	33	D						
19.00-19.50	34	B					(2.50)	
19.50-19.89	10	SPT	5,7/11,14,16,9 for 15mm					
19.50-19.95	35	D						
							20.50	
20.50-21.00	36	B				Greyish brown clayey slightly sandy subangular to subrounded fine to coarse GRAVEL of mudstone and sandstone. (GLACIOFLUVIAL DEPOSITS).	(0.50)	
							21.00	
21.00-21.45	12	SPT	N=27			Medium dense becoming dense and very dense grey clayey angular fine to coarse GRAVEL and COBBLES of siltstone and mudstone. (Weathered South Wales Middle Coal Measures Formation)		
21.00-21.45	37	D				. . . Becomes medium dense at 21.0m bgl.		
22.00-22.50	38	B						
22.50-22.95	13	SPT	N=24					
22.50-22.95	39	D						
23.50-24.00	40	B						
24.00-24.45	14	SPT	N=45				(6.70)	
24.00-24.45	41	D						
25.00-25.50	42	B						
25.50-25.95	15	SPT	N=46					
25.50-25.95	43	B						
26.50-27.00	44	B				. . . . Becomes brown with occasional boulders between 26.30-27.7mbgl.		

Boring Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress		
From	To	Duration (hh:mm)

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Cable Percussion	**Dando 3000**	**CJA**	**Rachael Lockyer**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH313**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	End: **25.09.24**	**---**	**E:277293.0 N:186650.0**	**4** of **4**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
27.00-27.30	16	SPT	25,13/14,23 for 75mm			Medium dense becoming dense and very dense grey clayey angular fine to coarse GRAVEL and COBBLES of siltstone and mudstone. (Weathered South Wales Middle Coal Measures Formation)		
27.00-27.30	45	D				. . . Becomes medium dense at 21.0m bgl.*(stratum copied from 21.00m from previous sheet)*	27.70	
27.30-27.80	46	B				Greyish brown SILTSTONE.	27.80	
27.80	47	D				Terminated at 27.8mbgl		

Boring Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress		
From	To	Duration (hh:mm)

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Cable Percussion	**Dando 3000**	**CJA**	**Rachael Lockyer**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH314**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	End: **14.08.24**	**7.90**	**E:277380.4 N:186542.3**	**1** of **3**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
						ASPHALT recovered as gravel and cobbles.	0.10	
0.25 0.25	ES1	ES PID	 0.0ppm			MADE GROUND. Medium dense dark greyish brown sandy angular fine to coarse GRAVEL of various lithologies including limestone and slag. Sand is fine to coarse. . . . Layer of compacted slag at 0.30m bgl.		
2.20-2.65	1	SPT(c)	N=10					
2.50-3.00 2.50 2.50	B1 ES2	B ES PID	 0.0ppm					
3.00-3.45	2	SPT(c)	N=6				(6.20)	
3.50-4.00	B2	B						
4.00-4.45	3	SPT(c)	N=17					
4.50-5.00	B3	B						
5.00-5.45	4	SPT(c)	N=9					
5.50-6.00 5.50 5.50	B4 ES3	B ES PID	 0.0ppm					
6.00-6.45	5	SPT(c)	N=8				6.30	
6.30-6.90 6.30 6.30	B5 ES4	B ES PID	 0.0ppm			Firm dark greyish brown black slightly sandy silty CLAY with frequent organic matter. Sand is fine to coarse. Organic matter is angular to subangular fine to coarse pseudo-fibrous to amorphous. Moderate organic odour.	(1.50)	
7.50-7.95	6	SPT	N=4				7.80	
						Soft brownish grey slightly sandy silty CLAY. Sand is fine. Occasional relict rootlets. Slight organic odour.	(1.30)	
8.50-9.00	B6	B						

Boring Progress and Water Observations

Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress

From	To	Duration (hh:mm)

General Remarks

1. Position scanned with a CAT, Genny and GPR prior to excavation.
2. Inspection pit machine dug to 2.20m depth. 300mm diameter pipe installed prior to backfilling to allow cable percussive drilling to commence.
3. Groundwater encountered at 1.20m depth.

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Cable Percussion	**Dando 3000**	**CJA**	**Kieran Bancroft**	JB AGS

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH314**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	End: **14.08.24**	**7.90**	**E:277380.4 N:186542.3**	**2** of **3**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
9.00-9.45	U1	U	14 blows			Loose brownish grey clayey fine to coarse SAND.	9.10	
9.45-9.50	D2	D						
10.00-10.50	B7	B					(1.80)	
10.50-10.95	7	SPT	N=12			. . . Becomes medium dense at 10.50m bgl.	10.90	
						Firm dark greyish brown black clayey fibrous PEAT. Strong organic odour.		
11.50-12.00	B8	B						
12.00-12.45	U2	U	14 blows				(2.30)	
12.45-12.50	D4	D						
13.00-13.50	B9	B					13.20	
						Firm to stiff brownish grey silty CLAY.		
13.50-13.95	8	SPT	N=18				(1.70)	
14.50-14.90	B10	B					14.90	
						Very soft dark grey silty slightly sandy CLAY. Sand is fine to coarse.		
15.00-15.45	U3	U	14 blows				(1.60)	
15.45-15.90	D6	D						
16.00-16.50	B11	B					16.50	
						Dense becoming very dense dark brownish grey slightly sandy clayey subangular to rounded fine to coarse GRAVEL of sandstone and mudstone with medium cobble content. Sand is fine. Cobbles are subrounded to rounded of sandstone.(Weathered South Wales Middle Coal Measures Formation).		
17.20-17.70	B12	B				. . . Becomes brownish grey at 17.20m bgl.		

Boring Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress		
From	To	Duration (hh:mm)

General Remarks

4. SPT hammer 19-5-2023 (E_r = 74.00%) used.

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Cable Percussion	**Dando 3000**	**CJA**	**Kieran Bancroft**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH314**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	End: **14.08.24**	**7.90**	**E:277380.4 N:186542.3**	**3** of **3**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
18.00-18.45	9	SPT(c)	N=48			Dense becoming very dense dark brownish grey slightly sandy clayey subangular to rounded fine to coarse GRAVEL of sandstone and mudstone with medium cobble content. Sand is fine. Cobbles are subrounded to rounded of sandstone.(Weathered South Wales Middle Coal Measures Formation). *(stratum copied from 16.50m from previous sheet)*	(8.84)	
18.50-19.00	B13	B						
19.50-19.95	10	SPT(c)	N=41					
20.50-21.00	B14	B						
21.00-21.17	11	SPT(c)	10,15/50 for 70mm					
21.50-22.00	B15	B						
22.50-22.65	12	SPT(c)	16,9/50 for 45mm					
24.00-24.23	13	SPT(c)	25/26,24 for 70mm					
25.00-25.34	14	SPT(c)	14,9/17,20,13 for 55mm				25.34	
						Borehole terminated at 25.0m bgl due to refusal.		

Boring Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress		
From	To	Duration (hh:mm)

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Cable Percussion	**Dando 3000**	**CJA**	**Kieran Bancroft**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH315**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**24.07.24** End: **30.07.24**	**7.76**	**E:277381.4 N:186461.5**	**1** of **4**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
						ASPHALT.	0.20	
						MADE GROUND. Greyish brown sandy angular fine to coarse GRAVEL of various lithologies including slag and concrete with low cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of slag and concrete.	0.60	
0.80-0.90 0.80	ES1 	ES PID	 0.0ppm			MADE GROUND. Yellowish brown slightly gravelly clayey fine to medium SAND. Gravel is angular to subrounded fine to coarse of sandstone.	(1.40)	
1.50-2.00	1	B					2.00	
2.00-2.50 2.00 2.00 2.50-3.00	2 2 3	B ES PID B	 0.0ppm 			MADE GROUND. Dark brown black sandy angular fine to coarse GRAVEL of various lithologies including red brick and slag. Sand is fine to coarse. Strong hydrocarbon/creosote and sulphurous odour. Oil sheen present.	(2.00)	
3.00-3.45 3.00 3.00-3.50 3.00 3.50-4.00	1 3 4 5	SPT(c) ES B PID B	N=1 0.0ppm 			. . . Becoming very loose at 3.0mbgl.	4.00	
4.00 4.00 4.50-5.00	4 6	ES PID B	 0.0ppm 			Medium dense brownish grey clayey fine to coarse SAND. Slight hydrocarbon odour. (TIDAL FLAT DEPOSITS)	(3.50)	
5.00 5.00-5.50 5.00 6.00-6.45 6.00-6.50	5 7 4 8	ES B PID SPT(c) B	 0.0ppm N=22 					
7.00-7.50	9	B					7.50	
7.50-7.95 7.50-8.00 7.50 7.50	5 10 6 	SPT(c) B ES PID	N=4 0.0ppm			Soft greyish brown slightly sandy silty CLAY. Sand is fine to medium. (TIDAL FLAT DEPOSITS)		
8.50-9.00	11	B				. . . Sand becomes fine at 8.50m bgl.		

Boring Progress and Water Observations

Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress

From	To	Duration (hh:mm)

General Remarks

1. Position scanned with a CAT, Genny and GPR prior to excavation.
2. Inspection pit machine dug to 1.50m depth. 300mm diameter pipe installed prior to backfilling to allow cable percussive drilling to commence.
3. Groundwater encountered at 1.50m depth.

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Cable Percussion	**Dando 3000**	**CJA**	**Adam Livesey**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH315**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**24.07.24** End: **30.07.24**	**7.76**	**E:277381.4 N:186461.5**	**2** of **4**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
9.00-9.45	1	U	17 blows			Soft greyish brown slightly sandy silty CLAY. Sand is fine to medium. (TIDAL FLAT DEPOSITS) *(stratum copied from 7.50m from previous sheet)*	(3.30)	
9.45-9.60	1	D						
10.00-10.50	12	B				. . . Becomes brownish grey at 10.0m bgl. Occasional relict rootlets and slight organic odour.		
10.50-10.95	2	D						
10.50-10.95	6	SPT	N=12				10.80	
						Soft to firm dark brownish grey slightly sandy silty CLAY with frequent organic matter. Sand is fine. Organic matter is angular fine to coarse fibrous. Moderate organic odour. (TIDAL FLAT DEPOSITS)		
12.00-12.45	2	U	64 blows					
12.45-12.60	3	D						
13.00-13.50	13	B				. . . Becomes brownish grey with occasional organic matter from 13.0m bgl. Organic matter is angular fine to medium pseudo-fibrous to amorphous.		
13.50-13.95	7	SPT	N=5				(6.00)	
14.50-15.00	14	B						
15.00-15.45	3	U	21 blows					
15.45-15.60	4	D						
16.60-17.05	5	D					16.80	
16.60-17.05	8	SPT	N=17			Medium dense becoming dense greyish brown sandy clayey angular to subrounded fine to coarse GRAVEL of sandstone and mudstone with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of sandstone. (Weathered South Wales Middle Coal Measures)		
17.50-18.00	15	B						

Boring Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress		
From	To	Duration (hh:mm)

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Cable Percussion	**Dando 3000**	**CJA**	**Adam Livesey**	

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FINAL

BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH315**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	End: **30.07.24**	**7.76**	**E:277381.4 N:186461.5**	**3** of **4**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
18.00-18.45	6	D				Medium dense becoming dense greyish brown sandy clayey angular to subrounded fine to coarse GRAVEL of sandstone and mudstone with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of sandstone. (Weathered South Wales Middle Coal Measures)		
18.00-18.45	9	SPT	N=39			*(stratum copied from 16.80m from previous sheet)*		
19.00-19.50	16	B				. . . Becomes more clayey between 19.0m and 22.0m bgl.		
19.50-19.95	7	D						
19.50-19.92	10	SPT	3,10/16,9,11,14 for 45mm					
20.50-21.00	17	B					(8.20)	
21.00-21.45	8	D						
21.00-21.20	11	SPT	14,11/35,15 for 10mm					
22.00-22.50	18	B						
22.50-22.74	12	SPT	11,16/36,14 for 10mm					
							25.00	
25.50-25.73	13	SPT	12,12/50 for 75mm			Very dense brown clayey slightly sandy GRAVEL of fine to coarse mudstone and sandstone with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded sandstone. (Weathered South Wales Middle Coal Measures)		

Boring Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress		
From	To	Duration (hh:mm)

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Cable Percussion	**Dando 3000**	**CJA**	**Adam Livesey**	JB AGS

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH315**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	End: **30.07.24**	**7.76**	**E:277381.4 N:186461.5**	**4** of **4**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
27.00-27.10	14	SPT	20,5/50 for 9mm			Very dense brown clayey slightly sandy GRAVEL of fine to coarse mudstone and sandstone with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded sandstone. (Weathered South Wales Middle Coal Measures) *(stratum copied from 25.00m from previous sheet)* . . . Becomes more clayey between 27.5m and 28.0m bgl.	(5.10)	
28.50-28.75	15	SPT	16,11/15,35 for 29mm					
30.00-30.05	16	SPT	25/50 for 27mm				30.10	
						Terminated at 30.10m depth.		

Boring Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress		
From	To	Duration (hh:mm)

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Cable Percussion	**Dando 3000**	**CJA**	**Adam Livesey**	JB AGS

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH316**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	End: **16.07.24**	**7.39**	**E:277450.4 N:186389.0**	**1** of **1**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
0.60 0.60	ES1	ES PID	0.0ppm			MADE GROUND. Dark brown sandy angular fine to coarse GRAVEL of various lithologies including limestone and slag. Sand is fine to coarse.	(0.70) 0.70	
						CONCRETE with void below to 3.0m bgl. Water within inspection chamber.	(2.30) 3.00	
						Inspection pit terminated at 0.70mbgl due to void.		

Boring Progress and Water Observations

Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress

From	To	Duration (hh:mm)

General Remarks

1. Position scanned with a CAT, Genny and GPR prior to excavation.
2. Inspection pit machine dug to 0.70m depth. Void encountered at 0.70m bgl.

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Cable Percussion	**Dando 4000**	**CJA**	**Kieran Bancroft**	JB AGS

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FINAL

BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH316a**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**16.07.24** End: **24.07.24**	**7.39**	**E:277450.4 N:186389.0**	**1** of **4**

Depth (m)	Samples & Testing No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
						MADE GROUND. Dark brown sandy angular fine to coarse GRAVEL of various lithologies including limestone and slag. Sand is fine to coarse.	(1.50)	
						. . . Layer of compacted slag at 0.90m bgl. Recovered as cobbles and boulders.	1.50	
1.70	ES1	ES				MADE GROUND. Dark brownish grey slightly gravelly clayey fine to coarse SAND. Gravel is angular fine to coarse of red brick and slag. Slight hydrocarbon odour.		
1.70		PID	0.0ppm				(1.80)	
2.60-3.00	B1	B						
2.60	ES2	ES						
2.60		PID	0.0ppm					
3.00-3.45	1	SPT(c)	N=11			. . . Becoming medium dense at 3.00mbgl.	3.30	
3.30-4.00	B2	B				Loose greyish brown silty fine to medium SAND. (BLOWN SAND)		
3.30	ES3	ES						
3.30		PID	0.0ppm					
4.50-5.00	B3	B						
5.00-5.45	3	SPT(c)	N=10			. . . Becoming loose at 5.00mbgl.		
5.50-6.00	B4	B					(4.40)	
5.50	ES4	ES						
5.50		PID	0.0ppm					
6.00-6.45	4	SPT(c)	N=5					
7.00-7.50	B5	B				. . . Becomes dark grey fine at 7.0m bgl. Slight organic odour.		
7.50-7.95	5	SPT(c)	N=2			. . . Becoming very loose at 7.50mbgl.	7.70	
7.70-8.00	B6	B				Very soft dark brownish grey mottled black brown slightly sandy silty CLAY. Sand is fine. Frequent relict rootlets and organic matter. Slight organic odour. (TIDAL FLAT DEPOSITS)	8.00	
8.40-9.00	B7	B				Greyish brown fine to coarse SAND. (TIDAL FLAT DEPOSITS)	8.40	
						Description on next sheet		

Boring Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress		
From	To	Duration (hh:mm)

General Remarks

1. Position scanned with a CAT, Genny and GPR prior to excavation.
2. Inspection pit machine dug to 2.20m depth. 300mm diameter pipe installed prior to backfilling to allow cable percussive drilling to commence.
3. Groundwater encountered at 2.10m depth.

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Cable Percussion	**Dando 4000**	**CJA**	**Kieran Bancroft**	JB AGS

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BORDEHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH316a**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	End: **24.07.24**	**7.39**	**E:277450.4 N:186389.0**	**2** of **4**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
9.00-9.45	U1	U	11 blows 100% recovery			Very soft brownish grey sandy silty CLAY. Sand is fine to medium. (TIDAL FLAT DEPOSITS) *(stratum copied from 8.40m from previous sheet)*	(2.90)	
9.45-9.55	D1	D						
10.00-10.50	B8	B						
10.50-10.95	6	SPT	N=2				11.30	
11.30-12.00	B9	B				Very soft brownish grey dark brown sandy silty CLAY with frequent organic matter. Sand is fine to coarse. Organic matter is angular fine to coarse fibrous. Moderate organic odour. (TIDAL FLAT DEPOSITS)	(4.70)	
12.00-12.45	U2	U	28 blows 100% recovery					
12.45-12.55	D3	D				. . . Organic matter becomes rare and pseudo-fibrous to amorphous from 12.50.		
13.00-13.50	B10	B						
13.50-13.95	7	SPT	N=2				16.00	
14.50-15.00	B11	B						
15.00-15.45	U3	U	9 blows 100% recovery					
15.45-15.55	D5	D						
16.00-16.50	B12	B				Dense greyish brown sandy clayey angular to subrounded fine to coarse GRAVEL of mudstone/siltstone and sandstone with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of mudstone/siltstone and sandstone. (Weathered South Wales Middle Coal Measures)		
16.50-16.95	8	SPT(c)	N=31					
17.50-18.00	B13	B						

Boring Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress		
From	To	Duration (hh:mm)

General Remarks

4. Upon completion borehole backfilled with bentonite pellets.

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Cable Percussion	**Dando 4000**	**CJA**	**Kieran Bancroft**	JB AGS

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH316a**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	End: **24.07.24**	**7.39**	**E:277450.4 N:186389.0**	**3** of **4**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
18.00-18.45	9	SPT(c)	N=35			Dense greyish brown sandy clayey angular to subrounded fine to coarse GRAVEL of mudstone/siltstone and sandstone with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of mudstone/siltstone and sandstone. (Weathered South Wales Middle Coal Measures) *(stratum copied from 16.00m from previous sheet)*		
19.00-19.50	B14	B						
19.50-19.95	10	SPT(c)	N=36					
20.50-21.00	B15	B						
21.00-21.45	11	SPT(c)	N=30					
22.00-22.50	B16	B					(12.22)	
22.50-22.95	12	SPT(c)	N=59			. . . Becomes very dense between 22.5m and 24.0m bgl.		
23.50-24.00	B17	B						
24.00-24.45	13	SPT(c)	N=50					
25.00-25.50	B18	B						
25.50-25.95	14	SPT(c)	N=33			. . . Becoming dense at 25.50mbgl		
26.50-27.00	B19	B						

Boring Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress		
From	To	Duration (hh:mm)

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Cable Percussion	**Dando 4000**	**CJA**	**Kieran Bancroft**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH316a**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	End: **24.07.24**	**7.39**	**E:277450.4 N:186389.0**	**4** of **4**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
27.50-28.00	B20	B				Dense greyish brown sandy clayey angular to subrounded fine to coarse GRAVEL of mudstone/siltstone and sandstone with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of mudstone/siltstone and sandstone. (Weathered South Wales Middle Coal Measures) *(stratum copied from 16.00m from previous sheet)*		
28.00-28.22	16	SPT(c)	25/45,38,17 for 32mm				28.22	
						Borehole terminated at 28.0m bgl.		

Boring Progress and Water Observations						Chiselling / Slow Progress			General Remarks
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)	

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Cable Percussion	**Dando 4000**	**CJA**	**Kieran Bancroft**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH317**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**07.06.24** End: **27.06.24**	**6.76**	**E:277542.9 N:186261.9**	**1** of **8**

Depth (m)	Samples & Testing: No	Type	Results	Mechanical Log: TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instrumentation	Water	Description of Strata	Fracture Log	Depth (Thickness)	Material Graphic Legend
0.50-1.00	1	B								MADE GROUND. Dark brown sandy angular fine to coarse GRAVEL of various lithologies including red brick, limestone, slag and wood.		(2.20)	
0.70	1	ES											
0.70		PID	0.0ppm										
1.40-1.70	1	SPT(c)	7,12/25,25 for 75mm										
1.50	2	ES								. . . Frequent angular cobbles of slag at 1.70m bgl.			
1.50-2.00	2	B											
1.50		PID	0.0ppm									2.20	
2.00-2.45	2	SPT(c)	N=18							MADE GROUND. Medium dense yellowish greyish brown slightly gravelly clayey fine to coarse SAND. Gravel is angular fine to coarse of slag.		(0.90)	
2.20	3	ES											
2.20-2.70	3	B											
2.20		PID	0.0ppm									3.10	
3.00-3.45	3	SPT(c)	N=8							MADE GROUND. Loose dark brownish grey sandy clayey angular fine to coarse GRAVEL of various lithologies including red brick, slag and coal.		(0.60)	
3.30	4	ES											
3.30		PID	0.0ppm									3.70	
4.00-4.45	4	SPT(c)	N=21							MADE GROUND. Dark brownish grey gravelly fine to coarse SAND. Gravel is angular fine to coarse of various lithologies including red brick, slag and coal.		4.10	
4.00-4.50	4	B											
4.10	5	ES											
4.10		PID	0.0ppm										
5.00-5.45	1	U	11 blows 33% recovery							Firm to stiff brownish grey sandy silty CLAY with pockets of grey clayey fine to coarse sand. Sand is fine to coarse. Frequent rootlets/organic matter. Slight organic odour. (TIDAL FLAT DEPOSITS)		(4.80)	
5.45-5.50	1	D								. . . Becomes brownish grey mottled black at 5.45m bgl. Rare rootlets/organic matter.			
6.00-6.45	2	D											
6.00-6.45	6	SPT	N=1										
6.50-7.00	5	B											
6.50	6	ES											
6.50		PID	0.0ppm										
7.50-7.95	2	U	12 blows 60% recovery										
7.95-8.00	3	D								. . . Becomes slightly sandy at 7.95m bgl. Sand is fine.		8.90	

Boring Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress		
From	To	Duration (hh:mm)

General Remarks

1. Position scanned with a CAT, Genny and GPR prior to excavation.
2. Inspection pit machine dug to 1.20m depth.
3. Rotary coring commenced at 27.50m bgl.

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Cable Percussion + Rotary Cored	**Dando 2000 + Fraste**	**CJA**	**Kieran Bancroft**	JB AGS

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH317**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**07.06.24** End: **27.06.24**	**6.76**	**E:277542.9 N:186261.9**	**2** of **8**

Depth (m)	Samples & Testing: No	Type	Results	Mechanical Log: TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instrumentation	Water	Description of Strata	Fracture Log	Depth (Thickness)	Material Graphic Legend
9.00-9.45	4	D								Very soft dark brown PEAT. Strong organic odour. (TIDAL FLAT DEPOSITS) *(stratum copied from 8.90m from previous sheet)*		9.20	
9.00-9.45	7	SPT	N=0									(1.00)	
10.00-10.50	6	B								Soft brownish grey clayey fine to coarse SAND. Moderate organic matter content. Slight organic odour. (TIDAL FLAT DEPOSITS)		10.20	
10.00		PID	1.0ppm										
10.50-10.95	3	U	0 blows 0% recovery							Very soft to soft grey mottled brown and black slightly sandy slightly organic silty CLAY. Sand is fine to coarse. Slight organic odour. Organic matter is fibrous to pseudo-fibrous. (TIDAL FLAT DEPOSITS)			
10.50	7	ES											
10.50-11.00	7	B											
10.50		PID	0.0ppm										
11.50-12.00	8	B											
12.00-12.45	5	D										(3.70)	
12.00-12.45	8	SPT	N=4										
12.50-13.00	9	B								. . . Organic matter becomes pseudo-fibrous to amorphous from 12.50m bgl.			
13.50-13.95	4	U	9 blows 100% recovery									13.90	
13.95-14.00	10	D								Soft greyish brown mottled dark brown and black slightly sandy slightly gravelly slightly organic silty CLAY. Sand is fine to coarse. Gravel is subangular to rounded fine to coarse of sandstone. Organic matter is fibrous to pseudo-fibrous including relict rootlets. Slight organic odour. (TIDAL FLAT DEPOSITS)		14.00	
14.00-14.50	10	B										(1.50)	
14.00	8	ES											
14.00		PID	0.4ppm										
15.00-15.45	9	SPT	N=39										
15.50-16.00	11	B								Dense greyish brown sandy clayey angular to rounded fine to coarse GRAVEL of sandstone and mudstone with medium cobble content. Sand is fine to coarse. Cobbles are subrounded to rounded of sandstone. (Weathered South Wales Middle Coal Measures Formation).		15.50	
										Dense greyish brown silty/clayey fine to medium SAND. (Weathered South Wales Middle Coal Measures Formation). . . . Blowing sands rising up the casing to 13.5m bgl.		(2.70)	
17.50-18.00	12	B											
17.50	9	ES											
17.50		PID	0.2ppm										

Boring Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress		
From	To	Duration (hh:mm)

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Cable Percussion + Rotary Cored	**Dando 2000 + Fraste**	**CJA**	**Kieran Bancroft**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH317**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**07.06.24** End: **27.06.24**	**6.76**	**E:277542.9 N:186261.9**	**3** of **8**

Depth (m)	Samples & Testing: No	Type	Results	Mechanical Log: TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instrumentation	Water	Description of Strata	Fracture Log	Depth (Thickness)	Material Graphic Legend
18.00-18.45	10	SPT	N=30									18.20	
19.00-19.50	13	B								Very dense dark brownish grey sandy clayey angular to subrounded fine to coarse GRAVEL and COBBLES of sandstone. Sand is fine to coarse. (Weathered South Wales Middle Coal Measures Formation).		(4.40)	
19.50-19.88	11	SPT	8,7/16,19,15 for 75mm										
19.50-20.00	14	B											
21.00-21.45	12	SPT	N=35									22.60	
22.00-22.50	15	B								Dense multicoloured (red, grey and brown) sandy angular to rounded fine to coarse GRAVEL and COBBLES of sandstone and mudstone. Sand is fine to coarse.		(0.90)	
22.50-22.95	13	SPT	N=36									23.50	
23.00-23.50	16	B								Multicoloured (red, grey and brown) sandy angular to rounded fine to coarse GRAVEL and COBBLES of sandstone and mudstone. Sand is fine to coarse. (Weathered South Wales Middle Coal Measures Formation).		(4.00)	

Boring Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress		
From	To	Duration (hh:mm)

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Cable Percussion + Rotary Cored	**Dando 2000 + Fraste**	**CJA**	**Kieran Bancroft**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH317**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**07.06.24** End: **27.06.24**	**6.76**	**E:277542.9 N:186261.9**	**4** of **8**

Depth (m)	Samples & Testing: No	Type	Results	Mechanical Log: TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instrumentation	Water	Description of Strata	Fracture Log	Depth (Thickness)	Material Graphic Legend
												27.50	
27.50-29.00				93	31	0	8 35 90 FI=21			Medium strong to strong dark grey unweathered fine SANDSTONE/SILTSTONE. Rare subrounded to rounded coarse coarse sandstone inclusions. Occasional very thin laminations of coal/organic mudstone.			
29.00-30.50				60	36	36	60 170 230 FI=5						
30.50-32.00													
30.50-30.58	14	SPT	NP	75	75	46	60 150 210 FI=7					(7.50)	
32.00-33.50				96	56	19	35 80 200 FI=12			. . . Inclusions no longer present from 32.0m bgl.			
33.50-35.00													
33.50-33.58	15	SPT	NP	93	77	31	15 75 150 FI=17			. . . Becomes thinly laminated with strong pale grey medium to coarse grained sandstone from 34.40m bgl.			
												35.00	
35.00-36.00				95	37	32				Weak black partially unweathered COAL.			

Boring Progress and Water Observations						Chiselling / Slow Progress			General Remarks
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)	

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Cable Percussion + Rotary Cored	**Dando 2000 + Fraste**	**CJA**	**Kieran Bancroft**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH317**

Contract Ref:	Start: **07.06.24**	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	End: **27.06.24**	**6.76**	**E:277542.9 N:186261.9**	**5** of **8**

Depth (m)	Samples & Testing: No	Type	Results	Mechanical Log: TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instrumentation	Water	Description of Strata	Fracture Log	Depth (Thickness)	Material Graphic Legend
36.50-38.00 36.50-36.73	16	SPT	11,12/100 for 75mm	40	0	0				Weak black partially unweathered COAL. *(stratum copied from 35.00m from* previous sheet) . . . Becomes destructured at 36.5m bgl (potentially carbonaceous mudstone)		(3.00) 38.00	
38.00-39.50				100	27	27	50 100 220 FI=11			Medium strong brownish grey unweathered MUDSTONE. Frequent angular fine to coarse fossilised organic matter inclusions. . . . Fossilised organic matter inclusions no longer present from 38.4m bgl. . . . Becomes laminated with fine sandstone/siltstone between 38.9m and 39.4m bgl . . . Becomes weak and partially unweathered at 39.10m bgl.	[i]	(2.10) 40.10	
39.50-41.00 39.50-39.58	17	SPT	NP	92	47	32	15 140 260 FI=10			Weak to moderately weak black unweathered to partially unweathered COAL.		(0.50) 40.60	
41.00-42.50				97	97	97	160 300 450 FI=5			Strong grey unweathered SILTSTONE. Frequent angular fine to coarse fossilised organic matter inclusions.		(2.30) 42.90	
42.50-44.00 42.50-42.58	18	SPT	NP	68	46	30	30 100 200 FI=8			. . . Becomes medium strong at 42.50m bgl.			
										Weak black partially unweathered to destructured COAL.		43.10	
44.00-45.50				90	90	70	25 130 310 FI=10			Strong brownish grey unweathered fine SANDSTONE/SILTSTONE. Occasional subrounded fine to coarse medium sandstone inclusions and lenses. Frequent angular fine to coarse fossilised organic matter inclusions.	[i]	(2.80)	

Boring Progress and Water Observations						Chiselling / Slow Progress			General Remarks
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)	

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Cable Percussion + Rotary Cored	**Dando 2000 + Fraste**	**CJA**	**Kieran Bancroft**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH317**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**07.06.24** End: **27.06.24**	**6.76**	**E:277542.9 N:186261.9**	**6** of **8**

Depth (m)	Samples & Testing: No	Type	Results	Mechanical Log: TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instrumentation	Water	Description of Strata	Fracture Log	Depth (Thickness)	Material Graphic Legend
				90	90	70							
45.50-47.00 45.50-45.58	19	SPT	NP									45.90	
				80	58	32	25 80 200 FI=14			Medium strong dark brownish grey unweathered to distinctly weathered MUDSTONE. occasional subrounded fine to coarse inclusions of fine to medium sandstone. . . . Frequent angular fossilised organic matter inclusions between 45.95-46.10m bgl. . . . Becomes extremely weak to weak distinctly weathered at 47.3m bgl. Frequent laminations of organic mudstone/coal	[i]	(4.10)	
47.00-48.50				71	0	0	80						
48.50-50.00 48.50-48.58	20	SPT	NP									50.00	
				100	0	0	20 175						
50.00-51.50				98	51	36	30 100 190 FI=8			Medium strong to strong brownish grey partially unweathered fine SANDSTONE. Occasional fossilised organic matter inclusions.	[i]	(1.60)	
51.50-53.00 51.50-51.58	21	SPT	NP									51.60	
										Weak black unweathered COAL. . . . Becomes dark grey destructured (potentially carbonaceous mudstone).		52.00	
				53	12	0				Strong to very strong pale grey unweathered fine to medium SANDSTONE. Occasional veins of quartzite.		(1.00)	
53.00-54.50												53.00	
				60	0	0				Medium strong dark brownish grey unweathered to partially unweathered SILTSTONE with thin laminations of fine sandstone and carbonaceous mudstone . . . Laminations no longer present at 53.5m bgl.			

Boring Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress		
From	To	Duration (hh:mm)

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Cable Percussion + Rotary Cored	**Dando 2000 + Fraste**	**CJA**	**Kieran Bancroft**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH317**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**07.06.24** End: **27.06.24**	**6.76**	**E:277542.9 N:186261.9**	**7** of **8**

Depth (m)	Samples & Testing: No	Type	Results	Mechanical Log: TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instrumentation	Water	Description of Strata	Fracture Log	Depth (Thickness)	Material Graphic Legend
				60	0	0				Medium strong dark brownish grey unweathered to partially unweathered SILTSTONE with thin laminations of fine sandstone and carbonaceous mudstone *(stratum copied from 53.00m from* previous sheet)			
54.50-56.00													
54.50-54.65	22	SPT	NP	0	0	0	40 70 130 FI=14			. . . Becomes fine SANDSTONE/SILTSTONE.	[i]	(4.50)	
56.00-57.50				33	0	0						57.50	
57.50-59.00										Medium strong brownish grey partially unweathered fine SANDSTONE. Frequent very thin laminations of carbonaceous mudstone.			
57.50-57.73	23	SPT	25,20/100 for 75mm	40	0	0				. . . Frequent very thin laminations of organic mudstone at 57.5m bgl.		(1.50)	
												59.00	
59.00-60.50				0	0	0				Medium strong brownish grey partially unweathered fine SANDSTONE. Frequent very thin laminations of carbonaceous mudstone.		(1.50)	
												60.50	
60.50-62.00										Medium strong brownish grey partially unweathered fine SANDSTONE. Frequent very thin laminations of carbonaceous mudstone.			
60.50-60.58	24	SPT	NP	0	0	0						(1.50)	
												62.00	
62.00-63.50				0	0	0				COAL. (Drillers description)			

Boring Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress		
From	To	Duration (hh:mm)

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Cable Percussion + Rotary Cored	**Dando 2000 + Fraste**	**CJA**	**Kieran Bancroft**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH317**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**07.06.24** End: **27.06.24**	**6.76**	**E:277542.9 N:186261.9**	**8** of **8**

Depth (m)	Samples & Testing: No	Type	Results	Mechanical Log: TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instrumentation	Water	Description of Strata	Fracture Log	Depth (Thickness)	Material Graphic Legend
63.50-65.00 63.50-63.95	25	SPT	N=75	0 0	0 0	0 0				COAL. (Drillers description) *(stratum copied from 62.00m from* previous sheet)		(3.00) 65.00	
65.00-66.50 66.50-66.58	26	SPT	NP	0	0	0				Medium strong brownish grey partially unweathered fine SANDSTONE. Frequent very thin laminations of carbonaceous mudstone.		(1.63) 66.63	
										Terminated at 66.63m bgl			

Boring Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress		
From	To	Duration (hh:mm)

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Cable Percussion + Rotary Cored	**Dando 2000 + Fraste**	**CJA**	**Kieran Bancroft**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH318**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**29.08.24** End: **02.09.24**	**6.77**	**E:277579.4 N:186007.2**	**1** of **3**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
						Grass over dark grey black sandy silty clay TOPSOIL. Sand is fine to medium.	0.20	
0.30 0.30	ES1 	ES PID	 0.0ppm			MADE GROUND. Dark brown black gravelly clayey coarse SAND. Gravel is angular to subrounded fine to coarse of various lithologies including red brick, coal, concrete and slag.	(1.10)	
0.90 0.90	ES2 	ES PID	 0.0ppm			. . . Becomes reddish brown dark brown black with medium cobble content at 0.70m bgl. Cobbles are angular of red brick and slag.		
						. . . Becomes light brown to dark brown at 0.90m bgl.	1.30	
1.50 1.50	ES3 	ES PID	 0.0ppm			MADE GROUND. Loose yellowish brown coarse SAND. (Fill)	(2.30)	
2.50-3.00	1	B			1			
3.00-3.45 3.00-3.45	1 2	SPT D	N=11 				3.60	
3.60-4.10	3	B				MADE GROUND. Medium dense becoming dense dark grey slightly sandy angular to subangular fine to coarse GRAVEL of slag with high cobble content. Cobbles are angular of slag.		
4.10-4.55 4.10-4.55	2 4	SPT D	N=20 					
4.60-5.00	5	B					(2.40)	
5.00-5.45 5.00-5.45	3 6	SPT D	N=38 					
5.50-6.00	7	B						
							6.00	
6.00-6.45 6.00-6.45	4 8	SPT D	N=12 			Firm grey sandy slightly gravelly silty CLAY. Sand is fine. Gravel is angular fine to coarse of mudstone. (Tidal Flat Deposits)		
7.00-7.50	9	B					(2.20)	
7.50-7.95 7.50-7.95	5 10	SPT D	N=2 			. . . Becomes very soft at 7.50m bgl.		
						. . . Gravel no longer present from 8.0m bgl.	8.20	
8.50-9.00	11	B				Firm brown PEAT. (Driller's description) (Tidal Flat Deposits)	(1.50)	

Boring Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress		
From	To	Duration (hh:mm)

General Remarks

1. Position scanned with a CAT, Genny and GPR prior to excavation.
2. Inspection pit machine dug to 2.50m depth. 300mm diameter pipe installed prior to backfilling to allow cable percussive drilling to commence.
3. Groundwater encountered at 3.0m depth.

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Cable Percussion	**Dando 3000**	**CJA**	**Kieran Bancroft**	JB AGS

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH318**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**29.08.24** End: **02.09.24**	**6.77**	**E:277579.4 N:186007.2**	**2** of **3**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
9.00-9.07	6	SPT	25/50 for 45mm			Firm brown PEAT. (Driller's description) (Tidal Flat Deposits) *(stratum copied from 8.20m from previous sheet)*		
9.00-9.06	12	D						
9.00-9.50	13	B					9.70	
						Very soft grey silty CLAY. Occasional brown dark brown fine to medium fragments of relict rootlets and organic matter. Slight organic odour. (Tidal Flat Deposits)		
10.00-10.50	14	B						
10.50-10.95	7	SPT	N=2					
10.50-10.95	15	D						
11.50-12.00	16	B						
12.00-12.45	8	SPT	N=2					
12.00-12.45	17	D					(6.30)	
13.00-13.50	18	B						
13.50-13.95	9	SPT	N=4					
13.50-13.95	19	D						
14.50-15.00	20	B						
15.00-15.45	10	SPT	N=5			. . . Becomes soft at 15.0m bgl.		
15.00-15.45	21	D					16.00	
16.00-16.50	22	B				Stiff greyish brown slightly sandy slightly gravelly silty CLAY. Sand is fine to coarse. Gravel is angular to rounded fine to coarse of sandstone. (Tidal Flat Deposits)		
16.50-16.95	11	SPT	N=23					
16.50-16.95	23	D					(2.81)	
17.50-18.00	24	B				. . . Becomes sandy gravelly at 17.50m bgl.		

Boring Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress		
From	To	Duration (hh:mm)

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Cable Percussion	**Dando 3000**	**CJA**	**Kieran Bancroft**	JB AGS

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH318**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**29.08.24** End: **02.09.24**	**6.77**	**E:277579.4 N:186007.2**	**3** of **3**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
18.00-18.31 18.00-18.31	12 25	SPT D	N=53			Stiff greyish brown slightly sandy slightly gravelly silty CLAY. Sand is fine to coarse. Gravel is angular to rounded fine to coarse of sandstone. (Tidal Flat Deposits) *(stratum copied from 16.00m from previous sheet)*	18.81	
18.80-18.81 18.80-18.80	13 26	SPT(c) D	NP			Borehole terminated at 18.81m bgl due to refusal on slag boulder that had been driven down from approximately 6.0m bgl during the course of the drilling.		

Boring Progress and Water Observations						Chiselling / Slow Progress			General Remarks
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)	

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Cable Percussion	**Dando 3000**	**CJA**	**Kieran Bancroft**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH319**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	End: **24.06.24**	**6.51**	**E:277496.5 N:185941.0**	**1** of **3**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
0.50	1	B				MADE GROUND: Medium dense dark brown sandy angular fine to coarse GRAVEL of brick and sand. Sand is fine to coarse. Medium angular cobble content of slag (upto 20cm long).		
0.50	ES1	ES						
0.50		PID	0.0ppm					
							(2.50)	
1.50	2	B						
1.50	ES2	ES						
1.50		PID	0.4ppm					
2.00-2.45	1	SPT(c)	N=14					
							2.50	
2.50	3	B				Medium dense brown fine to coarse SAND. (BLOWN SAND)		
2.50	ES3	ES						
2.50		PID	0.1ppm					
3.00-3.45	2	SPT(c)	N=17					
							(2.00)	
3.50	4	B						
4.00-4.45	3	SPT(c)	N=4			. . . Becoming loose at 4.0mbgl.		
							4.50	
4.50	5	B				Very soft grey sandy silty CLAY. Sand is fine to coarse. (TIDAL FLAT DEPOSITS)		
4.50	ES4	ES						
4.50		PID	0.0ppm					
5.00-5.45	6	U	11 blows 22% recovery					
5.45	7	D						
6.00-6.45	4	SPT	N=3					
6.00	8	D						
6.50	9	B						
7.50-7.95	10	U	18 blows 18% recovery					

Boring Progress and Water Observations

Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth
20/06/24		7.00	5.00	N/R	3.80
21/06/24		18.00	18.00	N/R	12.90
24/06/24		21.60	19.60	N/R	3.30

Chiselling / Slow Progress

From	To	Duration (hh:mm)
1.60	1.90	00:05
17.20	17.80	01:20
18.20	18.90	01:50
21.10	21.60	02:00
21.60	21.80	00:30

General Remarks

1. Position scanned with a CAT, Genny and GPR prior to excavation.
2. Inspection pit hand dug and mechanically excavated to 1.2mbgl.

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Cable Percussion	**Dando 2500**	**CJA**	**Rachael Lockyer**	JB AGS

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH319**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**19.06.24** End: **24.06.24**	**6.51**	**E:277496.5 N:185941.0**	**2** of **3**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
9.00-9.45	5	SPT	N=3			Very soft grey sandy silty CLAY. Sand is fine to coarse. (TIDAL FLAT DEPOSITS) *(stratum copied from 4.50m from previous sheet)*		
9.50	ES4	ES						
9.50		PID	0.0ppm					
							(12.00)	
10.50-10.95	11	U	99 blows 4% recovery					
10.95	12	D						
12.00-12.45	6	SPT	N=6			. . . Becoming soft at 12.0mbgl.		
12.00	13	D						
12.50	14	B						
13.50-13.95	15	U	99 blows 3% recovery					
13.95	16	D						
15.00-15.45	7	SPT	N=6					
15.00	17	D						
15.50	18	B						
							16.50	
16.50-16.95	8	SPT(c)	N=29			Medium dense brown clayey/silty sandy angular to subrounded fine to coarse GRAVEL of mudstone. (Weathered South Wales Middle Coal Measures Formation)	(0.50)	
16.50	19	B					17.00	
						Very dense brown clayey subangular to subrounded fine to coarse GRAVEL and COBBLES of mudstone (upto 20cm). (Weathered South Wales Middle Coal Measures Formation)		

Boring Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress		
From	To	Duration (hh:mm)

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Cable Percussion	**Dando 2500**	**CJA**	**Rachael Lockyer**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH319**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	End: **24.06.24**	**6.51**	**E:277496.5 N:185941.0**	**3** of **3**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
18.00-18.45	9	SPT(c)	N=50			Very dense brown clayey subangular to subrounded fine to coarse GRAVEL and COBBLES of mudstone (upto 20cm). (Weathered South Wales Middle Coal Measures Formation) *(stratum copied from 17.00m from previous sheet)* . . . Becoming dense at 18.00mbgl.	(4.30)	
18.50	20	B						
19.50-19.95	10	SPT(c)	N=35					
20.00	21	B						
21.00-21.38	11	SPT(c)	6,9/14,20,16 for 75mm				21.30	
						MUDSTONE recovered as angular to subangular fine to coarse GRAVEL. (SOUTH WALES COAL MEASURES)	(0.95)	
21.80-22.18	12	SPT(c)	25,60/44,6,5 for 75mm				22.25	
						Terminated at 21.8mbgl.		

Boring Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress		
From	To	Duration (hh:mm)

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Cable Percussion	**Dando 2500**	**CJA**	**Rachael Lockyer**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH320**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**18.06.24** End: **28.06.24**	**5.87**	**E:277580.0 N:185834.0**	**1** of **7**

Depth (m)	Samples & Testing: No	Type	Results	Mechanical Log: TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instrumentation	Water	Description of Strata	Fracture Log	Depth (Thickness)	Material Graphic Legend
0.00-1.20	1	B								MADE GROUND. Black gravelly SAND with high ash content, occasional rootlets and slightly charred odour. Sand is fine. Gravel is subangular to subrounded fine to coarse slag.		(1.20)	
0.50	1	ES											
0.50		PID	0.0ppm										
												1.20	
1.20-1.65	1	SPT(c)	N=6							MADE GROUND. Black slightly sandy subangular to subrounded fine to coarse GRAVEL of slag with high ash content.		1.50	
1.20-1.50	3	B										(0.50)	
1.50	2	ES								MADE GROUND. Grey brown mottled orange and black friable silty CLAY.		2.00	
1.50-2.00	4	B											
1.50		PID	0.0ppm										
2.00-2.45	2	SPT	N=38							MADE GROUND. Dense dark grey silty COBBLES of subangular to subrounded slag.		(1.00)	
2.00-2.45	5	D											
2.50-3.10	6	B										3.00	
3.10-3.55	3	SPT	N=7							Very soft to soft grey silty CLAY. (Tidal Flat Deposits)			
3.10-3.55	7	D											
3.60	3	ES											
3.60-4.00	8	D											
3.60		PID	0.0ppm										
4.00-4.45	9	U	10 blows										
4.45-4.60	10	D											
4.50-5.30	11	D										(3.50)	
5.30-5.75	8	SPT	N=0										
5.30-5.75	12	D											
5.70-6.10	13	B											
6.10-6.55	14	U	14 blows									6.50	
6.55-6.70	15	D								Firm brown fibrous PEAT with a moderate organic odour. (Tidal Flat Deposits)			
7.00-7.50	16	B										(1.50)	
7.50-7.95	5	SPT	N=8										
7.50-7.95	17	D										8.00	
8.50-9.10	18	B								Soft grey and dark grey slightly organic silty CLAY with rare black bands (<1cm) and occasional pockets of grey silt (<3cm). (Tidal Flat Deposits)			

Boring Progress and Water Observations

Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress

From	To	Duration (hh:mm)

General Remarks

1. Position scanned with a CAT, Genny and GPR prior to excavation.
2. Inspection pit hand dug to 1.2m depth.
3. Groundwater encountered at 2.6m depth.
4. Rotary coring commenced at 24.50m bgl.

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Cable Percussion + Rotary Cored	**Dando 2500 + CPT RigFraste**	**CJA**	**Jagan Raj + Kieran Bancroft**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH320**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**18.06.24** End: **28.06.24**	**5.87**	**E:277580.0 N:185834.0**	**2** of **7**

Depth (m)	Samples & Testing: No	Type	Results	Mechanical Log: TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instrumentation	Water	Description of Strata	Fracture Log	Depth (Thickness)	Material Graphic Legend
9.10-9.55	19	U	6 blows							Soft grey and dark grey slightly organic silty CLAY with rare black bands (<1cm) and occasional pockets of grey silt (<3cm). (Tidal Flat Deposits) *(stratum copied from 8.00m from* previous sheet)			
9.55-9.70	20	D											
10.00-10.60	21	B											
10.60-11.05	10	SPT	N=0										
10.60-11.05	22	D										(6.00)	
11.50-12.00	23	B											
12.00-12.45	24	U	7 blows										
12.45-12.60	25	D											
13.00-13.60	26	B											
13.60-14.05	11	SPT	N=15										
13.60-14.05	27	D										14.00	
14.00-14.60	28	B								Medium dense multicoloured (grey, greyish brown, brown and red) sandy subangular to subrounded fine to coarse GRAVEL of sandstone, siltstone and mudstone with medium cobble content. Sand is fine to coarse. Cobbles are subangular to rounded of mudstone, siltstone and sandstone. (Weathered South Wales Middle Coal Measures Formation).			
14.50-15.00	29	B											
15.00-15.45	12	SPT	N=25										
15.00-15.45	30	D											
16.50-17.00	31	B											
17.00-17.45	13	SPT	N=30							. . . Becomes dense at 17.0m bgl.		(6.00)	
17.00-17.45	32	D											

Boring Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress		
From	To	Duration (hh:mm)

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Cable Percussion + Rotary Cored	**Dando 2500 + CPT RigFraste**	**CJA**	**Jagan Raj + Kieran Bancroft**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH320**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**18.06.24** End: **28.06.24**	**5.87**	**E:277580.0 N:185834.0**	**3** of **7**

Depth (m)	Samples & Testing: No	Type	Results	Mechanical Log: TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instrumentation	Water	Description of Strata	Fracture Log	Depth (Thickness)	Material Graphic Legend
18.00-18.50	33	B								Medium dense multicoloured (grey, greyish brown, brown and red) sandy subangular to subrounded fine to coarse GRAVEL of sandstone, siltstone and mudstone with medium cobble content. Sand is fine to coarse. Cobbles are subangular to rounded of mudstone, siltstone and sandstone. (Weathered South Wales Middle Coal Measures Formation). *(stratum copied from 14.00m from previous sheet)*			
18.50-18.95	14	SPT(c)	N=20										
18.50-18.95	34	D											
19.50-20.00	35	B											
20.00-20.33	15	SPT	2,11/15,18,17 for 30mm							. . . Becomes medium dense at 18.50m bgl.		20.00	
20.00-20.30	36	D											
20.50-21.00	37	B								Weathered SILTSTONE. Recovered as brown subangular to subrounded COBBLES. (<200mm). (Weathered South Wales Lower Coal Measures Formation)			
21.30-21.50	38	B											
21.50-21.88	16	SPT	4,8/15,15,15,5 for 0mm										
21.50-21.95	39	D											
22.50-23.20	40	B											
23.00-23.38	6	SPT	5,8/12,18,20 for 75mm										
23.20-23.58	41	D										(6.80)	
24.00-24.50	42	B											
24.50-24.67	7	SPT	25/33,17 for 20mm										
24.50-26.70	43	D											
24.70-26.00				38	0	0							
26.00-27.50				82	26	14						26.80	
										Description on next sheet	[i]		

Boring Progress and Water Observations						Chiselling / Slow Progress			General Remarks
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)	

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Cable Percussion + Rotary Cored	**Dando 2500 + CPT RigFraste**	**CJA**	**Jagan Raj + Kieran Bancroft**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH320**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**18.06.24** End: **28.06.24**	**5.87**	**E:277580.0 N:185834.0**	**4** of **7**

Depth (m)	Samples & Testing: No	Type	Results	Mechanical Log: TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instrumentation	Water	Description of Strata	Fracture Log	Depth (Thickness)	Material Graphic Legend
				82	26	14	100 105 110 FI=3			Moderately weak to medium strong brownish grey partially unweathered SILTSTONE. (South Wales Lower Coal Measures Formation) *(stratum copied from 26.80m from previous sheet)*		(0.70) 27.50	
27.50-29.00				93	44	33	180 FI=5			Very strong brownish grey unweathered fine SANDSTONE. (South Wales Lower Coal Measures Formation) . . . Frequent angular fine to coarse fossilised organic matter inclusions from 27.50m bgl. . . . Becomes destructured between 28.0m to 28.10m bgl.		(0.90) 28.40	
29.00-30.50				80	33	33	20 30			Very weak to weak brownish grey partially unweathered to destructured MUDSTONE/SILTSTONE with occasional thin lenses of coal/carbonaceous mudstone. Frequent angular fine to coarse fossilised organic matter inclusions. (South Wales Lower Coal Measures Formation) . . . Fossilised organic matter inclusions no longer present from 29.0m bgl. . . . Becomes medium strong at 29.80m bgl. . . . Becomes weak to moderately weak between 30.80m and 31.10m bgl.		(4.30)	
30.50-32.00 30.50-30.65	17	SPT(c)	NP	93	80	38	10 150					32.70	
32.00-33.50				100	48	26	5 30 300 FI=13			Medium strong to strong dark grey unweathered fine SANDSTONE/SILTSTONE with thin laminations of pale grey medium to coarse sandstone. (South Wales Lower Coal Measures Formation)		(2.05)	
33.50-35.00 33.50-33.58	18	SPT(c)	NP	100	83	19	5 50 140 FI=22					34.75	
35.00-36.50				100	100	77	10 100 250 FI=10			Extremely weak to very weak dark grey distinctly weathered MUDSTONE/SILTSTONE. (South Wales Lower Coal Measures Formation) . . . Occasional lenses of strong brownish grey fine sandstone between 35.0m and 36.0m bgl.		(1.25) 36.00	

Boring Progress and Water Observations

Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress

From	To	Duration (hh:mm)

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Cable Percussion + Rotary Cored	**Dando 2500 + CPT RigFraste**	**CJA**	**Jagan Raj + Kieran Bancroft**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH320**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**18.06.24** End: **28.06.24**	**5.87**	**E:277580.0 N:185834.0**	**5** of **7**

Depth (m)	Samples & Testing: No	Type	Results	Mechanical Log: TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instrumentation	Water	Description of Strata	Fracture Log	Depth (Thickness)	Material Graphic Legend
36.50-38.00 36.50-36.58	19	SPT(c)	NP	100	100	77				Strong dark brownish grey unweathered fine SANDSTONE with thin laminations of grey medium to coarse sandstone. (South Wales Lower Coal Measures Formation)			
				102	102	38	20 120 250 FI=12						
38.00-39.50				98	93	52	15 140 300 FI=12						
39.50-41.00 39.50-39.58	20	SPT(c)	NP	96	96	71	5 180 280 FI=11					(9.10)	
41.00-42.50				98	78	57	10 170 470 FI=8						
42.50-44.00 42.50-42.95	21	SPT(c)	N=72	50	50	50	270 270 270 FI=2						
44.00-45.50				100	20	20	110			. . . Becomes weak to very weak partially unweathered to distinctly weathered at 44.0m bgl.			

Boring Progress and Water Observations						Chiselling / Slow Progress			General Remarks
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)	

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Cable Percussion + Rotary Cored	**Dando 2500 + CPT RigFraste**	**CJA**	**Jagan Raj + Kieran Bancroft**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH320**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**18.06.24** End: **28.06.24**	**5.87**	**E:277580.0 N:185834.0**	**6** of **7**

Depth (m)	Samples & Testing: No	Type	Results	Mechanical Log: TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instrumentation	Water	Description of Strata	Fracture Log	Depth (Thickness)	Material Graphic Legend
												45.10	
				100	20	20	110			Very weak distinctly weathered to partially unweathered black COAL. (South Wales Lower Coal Measures Formation)		(0.50)	
45.50-47.00												45.60	
45.50-45.95	22	SPT(c)	N=44	95	14	7	110			Very weak to moderately weak destructured to partially unweathered brownish grey SILTSTONE/fine SANDSTONE with very thin laminations of fine sandstone. (South Wales Lower Coal Measures Formation) . . . Becomes medium strong to strong unweathered with thin laminations of pale grey medium sandstone from 46.50m bgl. . . . Becomes thinly laminated with carbonaceous mudstone between 47.15m and 47.65m bgl.		(2.90)	
47.00-48.50				93	76	38	4 50 270 FI=14					48.50	
48.50-50.00													
48.50-48.58	23	SPT(c)	NP	0	0	0				No recovery (COAL wash away) (Drillers description) (South Wales Lower Coal Measures Formation)		(1.50)	
												50.00	
50.00-51.50				76	6	6	100			Very weak distinctly weathered to partially unweathered black COAL. (South Wales Lower Coal Measures Formation)		(0.70)	
												50.70	
51.50-53.00				102	60	46	190			Extremely weak to medium strong destructured to partially unweathered brownish grey SILTSTONE. (South Wales Lower Coal Measures Formation) . . . Becomes very distinctly weathered between 51.60m and 51.90m bgl. Potentially interbedded with mudstone. . . . Becomes strong between 52.30m and 52.60m bgl. . . . Becomes thinly laminated with carbonaceous mudstone/coal from 52.60m bgl.		(2.10)	
												52.80	
53.00-54.50				86	58	20	10 70 170 FI=11			Strong to very strong brownish grey unweathered fine SANDSTONE. (South Wales Lower Coal Measures Formation) . . . Becomes moderately weak to medium strong at 53.0m bgl.Occasional			

Boring Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress		
From	To	Duration (hh:mm)

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Cable Percussion + Rotary Cored	**Dando 2500 + CPT RigFraste**	**CJA**	**Jagan Raj + Kieran Bancroft**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH320**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	End: **28.06.24**	**5.87**	**E:277580.0 N:185834.0**	**7** of **7**

Depth (m)	Samples & Testing: No	Type	Results	Mechanical Log: TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instrumentation	Water	Description of Strata	Fracture Log	Depth (Thickness)	Material Graphic Legend
				86	58	20				subrounded to rounded fine to coarse inclusions of fine to medium sandstone. . . . Becomes thinly laminated with pale grey medium sandstone between 53.60m and 54.0m bgl. Strong to very strong brownish grey unweathered fine SANDSTONE. (South Wales Lower Coal Measures Formation) *(stratum copied from 52.80m from* previous sheet)			
54.50-56.00 54.50-54.58	24	SPT(c)	NP	100	16	12	120			. . . Becomes partially unweathered to distinctly weathered from 54.50m bgl. . . . Frequent angular fine to coarse fossilised organic matter inclusions from 55.20m bgl.		(5.20)	
56.00-57.50				80	18	9	5 25 140			. . . Becomes thinly laminated with pale grey medium sandstone from 56.70m bgl.			
57.50-57.65	25	SPT(c)	NP										
57.80-58.00				300	100	0						58.00	
										Borehole terminated at 58.0m bgl			

Boring Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress		
From	To	Duration (hh:mm)

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Cable Percussion + Rotary Cored	**Dando 2500 + CPT RigFraste**	**CJA**	**Jagan Raj + Kieran Bancroft**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH321**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**22.08.24** End: **28.08.24**	**6.39**	**E:277648.9 N:185999.2**	**1** of **3**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
0.50	1	ES				MADE GROUND. Black to brown sandy angular fine to coarse GRAVEL of slag, brick and tarmac with medium cobble content. Sand is fine to coarse. Occasional metal sheets/pipes/bars. Cobbles are angular of slag.	(1.00)	
							1.00	
1.00	2	ES				Yellowish brown fine to coarse SAND. (BLOWN SAND).	(3.00)	
3.00-4.20	1	B					4.00	
4.20-4.65	1	SPT	N=12			Medium dense greyish brown slightly organic clayey fine SAND with occasional pockets of black fibrous peat. (TIDAL FLAT DEPOSITS)	(0.70)	
4.20-4.60	3	B					4.70	
4.70-5.20	4	B				Brown PEAT (DRILLERS DESCRIPTION, TIDAL FLAT DEPOSITS)	4.80	
5.20-5.65	2	SPT	N=0			Soft greyish brown sandy silty CLAY. Sand is fine. (TIDAL FLAT DEPOSITS)	(2.80)	
5.20-5.65	5	D				. . . Becomes very soft at 5.20m bgl		
5.70-6.20	6	B						
6.20-6.65	7	UT	18 blows 20% recovery					
6.65-6.80	8	D						
7.00-7.60	9	B					7.60	
7.60-8.05	3	SPT	N=10			Firm dark brown clayey sandy fibrous PEAT. Sand is fine. (TIDAL FLAT DEPOSITS)	(0.50)	
7.60-8.05	10	D					8.10	
8.50-9.00	11	B				Firm dark grey slightly organic silty CLAY. (TIDAL FLAT DEPOSITS).		

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Boring Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress		
From	To	Duration (hh:mm)

General Remarks

1. Position scanned with a CAT, Genny and GPR prior to excavation.
2. Inspection pit machine dug to 2.80m depth. 300mm diameter pipe installed prior to backfilling to allow cable percussive drilling to commence.
3. Groundwater encountered at 9.00m depth.

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Cable Percussion	**Dando 3000**	**CJA**	**Rachael Lockyer**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH321**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**22.08.24** End: **28.08.24**	**6.39**	**E:277648.9 N:185999.2**	**2** of **3**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
9.00-9.45	12	UT	10 blows 22% recovery			Firm dark grey slightly organic silty CLAY. (TIDAL FLAT DEPOSITS). *(stratum copied from 8.10m from previous sheet)*	(1.90)	
9.45-9.60	13	D					10.00	
10.00-10.50	14	B				Medium dense becoming dense and very dense brown sandy clayey subangular to subrounded fine to coarse GRAVEL of mudstone and siltstone with high cobble content. Cobbles are subrounded to subangular of sandstone. (Weathered South Wales Middle Coal Measures Formation).		
10.50-10.95	4	SPT	N=12					
10.50-10.95	15	D						
11.70-12.50	16	B						
12.50-12.95	5	SPT	N=19					
12.50-12.95	17	D						
13.00-13.50	18	B						
13.50-13.95	6	SPT	N=46			. . . Becomes dense 13.50m bgl.		
13.50-13.95	19	D						
14.50-15.40	20	B						
15.10-15.55	7	SPT	N=30					
15.10-15.55	21	D						
16.00-16.50	22	B						
16.50-16.94	8	SPT	4,9/11,17,12,10 for 60mm				(13.50)	
16.50-16.94	23	D						
17.50-18.10	24	B						

Boring Progress and Water Observations

Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress

From	To	Duration (hh:mm)

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Cable Percussion	**Dando 3000**	**CJA**	**Rachael Lockyer**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH321**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	End: **28.08.24**	**6.39**	**E:277648.9 N:185999.2**	**3** of **3**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
18.10-18.32	9	SPT	8,17/50 for 65mm			Medium dense becoming dense and very dense brown sandy clayey subangular to subrounded fine to coarse GRAVEL of mudstone and siltstone with high cobble content. Cobbles are subrounded to subangular of sandstone. (Weathered South Wales Middle Coal Measures Formation). *(stratum copied from 10.00m from previous sheet)*		
18.10-18.32	25	D						
19.00-19.60	26	B						
19.60-20.05	10	SPT	N=23					
19.60-20.05	27	D						
20.50-21.00	28	B						
21.00-21.30	11	SPT	9,9/14,36 for 75mm					
21.00-21.30	29	D						
22.00-22.50	30	B						
22.50-22.84	12	SPT	10,15/16,20,14 for 35mm					
22.50-22.83	31	D						
							23.50	
23.50-23.80	32	B				Very stiff to hard brownish grey sandy gravelly CLAY with high cobble content. Sand is fine to coarse. Gravel is angular to subangular fine to coarse of mudstone. Cobbles are angular of mudstone. (Weathered South Wales Lower Coal Measures Formation)		
23.80-24.30	33	B					(1.57)	
24.30-24.50	13	SPT	15,10/50 for 75mm					
24.30-24.41	34	D						
24.50-25.00	35	B						
							25.07	
25.00-25.07	14	SPT(c)	25/50 for 10mm			Borehole terminated at 25.0m bgl.		

Boring Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress		
From	To	Duration (hh:mm)

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Cable Percussion	**Dando 3000**	**CJA**	**Rachael Lockyer**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH322**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	End: **20.06.24**	**6.59**	**E:277781.7 N:185934.3**	**1** of **9**

Depth (m)	Samples & Testing: No	Type	Results	Mechanical Log: TCR (%)	SCR (%)	RQD (%)	If (mm)	Flush Returns & Details	Backfill & Instru-mentation	Water	Description of Strata	Fracture Log	Depth (Thick ness)	Material Graphic Legend
0.00-0.20	1	B									MADE GROUND: black, silty sandy subangular to angular GRAVEL of slag. High subangular cobble content of slag. Sand is fine to coarse.		(1.10)	
0.20-0.50	2	B												
0.20	ES1	ES												
0.50-1.10	3	B									. . . 1.7m x 0.10 x 0.15m slab of steel		1.10	
1.00-1.45	1	SPT	N=20								MADE GROUND: Medium dense dark grey to black slightly gravelly clayey fine to coarse SAND. Gravel IS angular fine to coarse of slag and sandstone.		(0.50)	
1.10-1.60	5	B											1.60	
1.10	ES2	ES												
1.60-2.00	6	B												
1.60	ES3	ES												
2.00-2.45	2	SPT	N=4								MADE GROUND: Loose becoming very loose yellow brown slightly gravelly fine to coarse SAND. Gravel is subrounded fine of sandstone.		(2.80)	
2.00-2.45	7	D												
2.50-3.10	8	B												
3.00-3.45	3	SPT	N=1								. . . becoming very loose at 3.00mbgl			
3.10-4.00	10	B									. . . Becoming darker in colour, rare angular cobbles of slag.			
4.00-4.45	4	SPT	N=8										4.40	
4.00-4.45	11	D												
4.40	ES4	ES									Soft dark grey silty CLAY (TIDAL FLAT DEPOSITS)			
4.50-4.95	5	SPT	N=5											
5.00-5.45	13	D												
5.80-6.30	14	B											(3.10)	
6.30-6.75	15	U	17 blows											
6.75-6.80	16	D												
7.00-7.45	6	SPT	N=5								. . . High organic content. Frequent pockets of dark brown and orangebrown, firm fibrous PEAT between 7.00-7.5mbgl.		7.50	
7.50-7.95	19	D												
7.50-8.00	20	B								1	Soft brown fibrous PEAT. (TIDAL FLAT DEPOSITS)			
8.50-9.00	21	B									. . . becoming loose at 4.0mbgl		(1.50)	
													9.00	

Boring Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress		
From	To	Duration (hh:mm)

General Remarks

1. Position scanned with a CAT, Genny and GPR prior to excavation.
2. Inspection pit hand dug and mechanicallly excvated to 1.2m depth.
3. Groundwater encountered at 9.5m depth.

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Cable Percussion + Rotary Cored	**Dando 3000 + Fraste**	**CJA**	**Rachael Lockyer**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH322**

Contract Ref:	Start: **10.06.24**	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	End: **20.06.24**	**6.59**	**E:277781.7 N:185934.3**	**2** of **9**

Depth (m)	Samples & Testing: No	Type	Results	Mechanical Log: TCR (%)	SCR (%)	RQD (%)	If (mm)	Flush Returns & Details	Backfill & Instru-mentation	Water	Description of Strata	Fracture Log	Depth (Thick ness)	Material Graphic Legend
9.00-9.45	7	SPT	N=7							1	Soft grey brown mottled yellow/orange brown slightly gravel sandy SILT. Gravel is angular coarse of sandstone. Sand is fine to coarse. Medium organic content including pocketsbof brown fibrous peat. (TIDAL FLAT DEPOSITS)		(0.50)	
9.00-9.45	22	D											9.50	
9.50-10.00	23	B												
10.50-10.95	8	SPT(c)	N=11								Medium dense brown clayey, silty slightly sandy subangular to subrounded GRAVEL and COBBLES of sandstone and siltstone/mudstone. Sand is fine to coarse. Cobbles between 5 to 15cm long. (GLACIOFLUVIAL DEPOSITS)			
10.50-10.95	24	D												
11.00-11.50	25	B												
12.00-12.45	9	SPT	N=45								. . . becoming dense at 12.00mbgl.		(6.00)	
12.00-12.45	26	B												
13.00-13.50	27	B												
13.50-13.83	10	SPT	6,10/13,17,20 for 25mm								. . . becoming very dense at 13.50mbgl.			
13.50-13.95	28	D												
14.00-14.50	29	B												
15.00-15.45	11	SPT	N=49								. . . becoming dense at 12.00mbgl		15.50	
15.00-15.45	30	D												
15.50-16.00	31	B									Stiff grey brown slightly gravelly slightly sandy silty CLAY. Gravel is subrounded to rounded fine of mudstone and sandstone. Sand is fine. Medium subangular to subrounded cobble content of mudstone or sandstone. (Weathered South Wales Middle Coal Measures Formation).		(3.50)	
16.50-16.95	12	SPT	N=37											
16.50-17.00	32	B												
17.50-18.00	33	B												

Boring Progress and Water Observations						Chiselling / Slow Progress			General Remarks
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)	

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Cable Percussion + Rotary Cored	**Dando 3000 + Fraste**	**CJA**	**Rachael Lockyer**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH322**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	End: **20.06.24**	**6.59**	**E:277781.7 N:185934.3**	**3** of **9**

Depth (m)	Samples & Testing: No	Type	Results	Mechanical Log: TCR (%)	SCR (%)	RQD (%)	If (mm)	Flush Returns & Details	Backfill & Instrumentation	Water	Description of Strata	Fracture Log	Depth (Thickness)	Material Graphic Legend
18.00-18.45	13	SPT	N=37											
18.00-18.45	34	D												
18.50-19.00	35	B											19.00	
19.50-19.95	14	SPT	N=44								Dense brown silty subrounded to rounded fine to coarse GRAVEL of sandstone and mudstone/siltstone. (Weathered South Wales Middle Coal Measures Formation)			
19.50-19.95	36	D												
20.00-20.50	37	B											(3.50)	
21.00-21.44	15	SPT	11,12/12,15,13,37 for 60mm								. . . becoming very dense at 21.0mbgl			
21.00-21.45	38	D												
21.50-22.00	39	B											22.50	
22.50-22.75	40	D									Brown subangular to angular coarse GRAVEL and COBBLES of sandstone and mudstone. Cobbles upto 10cm. (Weathered South Wales Middle Coal Measures Formation)		(0.50)	
22.50-23.00	41	B											23.00	
23.00-24.50				0	0	0		100% return Water (Grey)			Very dense grey brown clayey fine SAND. (Weathered South Wales Middle Coal Measures Formation)			ZCL
23.00-23.24	16	SPT	8,11/15,35 for 10mm											
23.00-23.10	42	D									. . . becoming very dense at 23.00mbgl			
24.50-26.00				0	0	0		90% return Water (Grey)					(6.00)	
26.00-27.50				0	0	0		90% return Water (Grey)						
26.00-26.45	17	SPT	N=64											

Boring Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress		
From	To	Duration (hh:mm)

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Cable Percussion + Rotary Cored	**Dando 3000 + Fraste**	**CJA**	**Rachael Lockyer**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	TATA Steel	BH322

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	End: 20.06.24	6.59	E:277781.7 N:185934.3	4 of 9

Depth (m)	Samples & Testing: No	Type	Results	Mechanical Log: TCR (%)	SCR (%)	RQD (%)	If (mm)	Flush Returns & Details	Backfill & Instrumentation	Water	Description of Strata	Fracture Log	Depth (Thickness)	Material Graphic Legend
27.50-29.00				0	0	0		90% return Water (Grey)			Very dense grey brown clayey fine SAND. (Weathered South Wales Middle Coal Measures Formation) . . . becoming very dense at 23.00mbgl *(stratum copied from* 23.00m from previous sheet)		29.00	ZCL
29.00-31.50				0	0	0		90% return Water (Grey)			Medium dense grey brown clayey fine SAND. (Weathered South Wales Middle Coal Measures Formation)		(4.00)	
31.50-33.00				0	0	0		90% return Water (Grey)					33.00	
33.00-34.50				0	0	0		70% return Air+Mist (Grey)			SANDSTONE (South Wales Coal Measures)			
34.50-36.00				0	0	0		70% return Air+Mist (Grey)						

Boring Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress		
From	To	Duration (hh:mm)

General Remarks

All dimensions in metres | Scale: 1:50

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Cable Percussion + Rotary Cored	Dando 3000 + Fraste	CJA	Rachael Lockyer	

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH322**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	End: **20.06.24**	**6.59**	**E:277781.7 N:185934.3**	**5** of **9**

Depth (m)	Samples & Testing: No	Type	Results	Mechanical Log: TCR (%)	SCR (%)	RQD (%)	If (mm)	Flush Returns & Details	Backfill & Instrumentation	Water	Description of Strata	Fracture Log	Depth (Thickness)	Material Graphic Legend
								70% return Air+Mist (Grey)			SANDSTONE (South Wales Coal Measures) *(stratum copied from 33.00m from* previous sheet)			
37.50-39.00				0	0	0		70% return Air+Mist (Grey)						
39.00-40.50				0	0	0		70% return Air+Mist (Grey)						
40.50-42.00				0	0	0		80% return Air+Mist (Grey)						
42.00-43.50				0	0	0		80% return Air+Mist (Grey)						
43.50-45.00				0	0	0		80% return Air+Mist (Grey)					(21.00)	

Boring Progress and Water Observations

Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress

From	To	Duration (hh:mm)

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Cable Percussion + Rotary Cored	**Dando 3000 + Fraste**	**CJA**	**Rachael Lockyer**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH322**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	End: **20.06.24**	**6.59**	**E:277781.7 N:185934.3**	**6** of **9**

Depth (m)	Samples & Testing: No	Type	Results	Mechanical Log: TCR (%)	SCR (%)	RQD (%)	If (mm)	Flush Returns & Details	Backfill & Instru-mentation	Water	Description of Strata	Fracture Log	Depth (Thick ness)	Material Graphic Legend
45.00-46.50				0	0	0		80% return Air+Mist (Grey)			SANDSTONE (South Wales Coal Measures) *(stratum copied from 33.00m from* previous sheet)			
46.50-48.00				0	0	0		80% return Air+Mist (Grey)						
48.00-49.50				0	0	0		80% return Air+Mist (Grey)						
49.50-51.00				0	0	0		80% return Air+Mist (Grey)						
51.00-52.50				0	0	0		80% return Air+Mist (Grey)						
52.50-54.00				0	0	0		80% return Air+Mist (Grey)					54.00	

Boring Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress		
From	To	Duration (hh:mm)

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Cable Percussion + Rotary Cored	**Dando 3000 + Fraste**	**CJA**	**Rachael Lockyer**	

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FINAL

BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	TATA Steel	BH322

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	End: 20.06.24	6.59	E:277781.7 N:185934.3	7 of 9

Depth (m)	Samples & Testing: No	Type	Results	Mechanical Log: TCR (%)	SCR (%)	RQD (%)	If (mm)	Flush Returns & Details	Backfill & Instrumentation	Water	Description of Strata	Fracture Log	Depth (Thickness)	Material Graphic Legend
54.00-55.50				0	0	0		90% return Air+Mist (Dark grey/black)			Inferred COAL (Drillers Description). (SOUTH WALES COAL MEASURES).			
55.50-57.00				0	0	0		90% return Air+Mist (Dark grey/black)					(5.00)	
57.00-58.50				0	0	0		90% return Air+Mist (Dark grey/black)						
58.50-60.00				0	0	0		90% return Air+Mist (Grey)			Medium strong unweathered grey brown fine SANDSTONE with rare thin layers of dark grey organic mudstone/siltstone. (SOUTH WALES COAL MEASURES).		59.00	
60.00-61.50				0	0	0		90% return Air+Mist (Grey)					(5.00)	ZCL
61.50-63.00				0	0	0		90% return Air+Mist (Grey)						

Boring Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress		
From	To	Duration (hh:mm)

General Remarks

All dimensions in metres | Scale: 1:50

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Cable Percussion + Rotary Cored	Dando 3000 + Fraste	CJA	Rachael Lockyer	

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	TATA Steel	BH322

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	End: 20.06.24	6.59	E:277781.7 N:185934.3	8 of 9

Depth (m)	Samples & Testing: No	Type	Results	Mechanical Log: TCR (%)	SCR (%)	RQD (%)	If (mm)	Flush Returns & Details	Backfill & Instrumentation	Water	Description of Strata	Fracture Log	Depth (Thickness)	Material Graphic Legend
63.00-64.00				0	0	0		90% return Air+Mist (Grey)			Medium strong unweathered grey brown fine SANDSTONE with rare thin layers of dark grey organic mudstone/siltstone. (SOUTH WALES COAL MEASURES).		64.00	ZCL
64.00-65.50				80	0	0					*(stratum copied from 59.00m from previous sheet)* Medium strong unweathered grey brown fine SANDSTONE with rare thin layers of dark grey organic mudstone/siltstone. (SOUTH WALES COAL MEASURES).		(4.50)	
65.50-67.00				73	0	0								
67.00-68.50				90	56	17	35 12 FI=19					1	68.50	
68.50-70.00				100	91	65	4 45 FI=14				Moderately weak to medium strong unweathered grey MUDSTONE. Frequent thin bands of brown siltstone/fine sandstone. (SOUTH WALES COAL MEASURES).	2[i]	(1.50)	
70.00-71.50				100	86	7	35 10 30 FI=10				Medium strong unweathered grey brown SILTSTONE/FINE SANDSTONE. Frequent angular inclusions of dark grey organic mudstone. (SOUTH WALES COAL MEASURES).		70.00	
71.50-73.00				50	0	0							(3.00)	

Boring Progress and Water Observations						Chiselling / Slow Progress			General Remarks
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)	

All dimensions in metres | Scale: 1:50

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Cable Percussion + Rotary Cored	Dando 3000 + Fraste	CJA	Rachael Lockyer	

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH322**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	End: **20.06.24**	**6.59**	**E:277781.7 N:185934.3**	**9** of **9**

Depth (m)	Samples & Testing: No	Type	Results	Mechanical Log: TCR (%)	SCR (%)	RQD (%)	If (mm)	Flush Returns & Details	Backfill & Instrumentation	Water	Description of Strata	Fracture Log	Depth (Thickness)	Material Graphic Legend
				50	0	0					Medium strong unweathered grey brown SILTSTONE/FINE SANDSTONE. Frequent angular inclusions of dark grey organic mudstone. (SOUTH WALES COAL MEASURES).		73.00	
73.00-74.50				97	34	14	350 FI=2				*(stratum copied from 70.00m from previous sheet)* Moderately weak unweathered grey MUDSTONE. (SOUTH WALES COAL MEASURES).	3	(1.50)	
													74.50	
74.50-76.00				5	0	0					Weak to moderately weak unweathered to partially unweathered grey MUDSTONE. (SOUTH WALES COAL MEASURES).		74.80	
											Extremely weak to weak destructured black COAL. (SOUTH WALES COAL MEASURES).		(1.20)	
													76.00	
											Borehole terminated at 76.0m bgl.			

Boring Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress		
From	To	Duration (hh:mm)

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Cable Percussion + Rotary Cored	**Dando 3000 + Fraste**	**CJA**	**Rachael Lockyer**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH323**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**08.06.24** End: **11.06.24**	**5.89**	**E:277732.0 N:186081.9**	**1** of **1**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
0.30	ES1	ES				MADE GROUND. Dark brown sandy angular fine to coarse GRAVEL of various lithologies including limestone, mudstone and slag. Sand is fine to coarse. . . . Cobble/boulder of slag encountered in the side of the inspection pit at 0.10m bgl. . . . Becomes dark brown black and frequent angular cobbles of slag at 0.30m bgl.	(3.40)	
1.50-2.00	1	B						
2.50-3.00	2	B						
3.00-3.23	1	SPT	7,11/36,14 for 0mm					
3.00-3.40	3	B					3.40	
						Borehole terminated due to refusal.		

Boring Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress		
From	To	Duration (hh:mm)

General Remarks

1. Position scanned with a CAT, Genny and GPR prior to excavation.
2. Inspection pit hand dug and mechanically excavated to 2.2m depth.
3. No groundwater encountered.

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Cable Percussion	**Dando 2000**	**CJA**	**Kieran Bancroft**	

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RAW FIELD DATA

BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH323A**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**30.09.24** End: **08.10.24**	**---**	**E:277732.0 N:186074.0**	**1** of **7**

Depth (m)	Samples & Testing: No	Type	Results	Mechanical Log: TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
										MADE GROUND: Dense (from 3.00m) dark grey and dark greyish brown slightly sandy GRAVEL and COBBLES with medium boulder content. Gravel is subangular to subrounded fine to coarse slag. Cobbles are angular to subangular slag. Boulders are slag.	(4.50)	
2.50-3.00	1	B										
3.00-3.50	3	B										
3.00-3.45	22	SPT	N=35									
3.70-4.30	4	B										
4.30-4.75	5	D										
4.30-4.75	23	SPT	N=9									
4.50-5.10	6	B									4.50	
										MADE GROUND: Loose dark grey angular GRAVEL of medium to coarse mudstone. (Probable Fill)	(1.10)	
5.10-5.55	7	D										
5.10-5.55	24	SPT	N=10									
											5.60	
5.60-6.10	8	B								MADE GROUND: Medium dense dark grey sandy angular fine to coarse GRAVEL of mudstone, coal and shale. Sand is fine to coarse.	(0.50)	
											6.10	
6.10-6.55	9	D								Dark brown silty CLAY. (Tidal Flat Deposits)		
6.10-6.55	25	SPT	N=10									
7.00-7.50	10	D									(2.40)	
7.50-7.95	11	U										
7.95-8.10	12	D										
											8.50	
8.50-9.00	13	B								Dark brown fibrous PEAT. (Tidal Flat Deposits)		

Boring Progress and Water Observations

Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress

From	To	Duration (hh:mm)

General Remarks

1. Position scanned with a CAT, Genny and GPR prior to excavation.
2. Inspection pit mechanically dug to 2.50m depth.
3. Groundwater encountered at 2.50m depth.

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Cable Percussion + Rotary open hole	**Dando 3000 + Comacchio GEO 205**	**CJA**	**Jagan Raj**	

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RAW FIELD DATA

BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH323A**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**30.09.24** End: **08.10.24**	**---**	**E:277732.0 N:186074.0**	**2** of **7**

Depth (m)	Samples & Testing: No	Type	Results	Mechanical Log: TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
9.00-9.45	14	D								Dark brown fibrous PEAT. (Tidal Flat Deposits) *(stratum copied from 8.50m from previous* sheet)	(1.50)	
9.00-9.45	26	SPT	N=9								10.00	
10.00-10.50	15	B								Dark brown gravelly CLAY. Gravel is subrounded to rounded fine to coarse mudstone and sandstone. (Gaciofluvial Deposits)	(1.50)	
10.50-10.95	16	D										
10.50-10.95	27	SPT	N=15								11.50	
11.50-12.00	17	B								Medium dense pale brown and reddish brown subangular to rounded fine to coarse GRAVEL of sandstone, siltstone and mudstone. (Glaciofluvial Deposits)	(3.00)	
12.00-12.50	19	B										
12.00-12.45	28	SPT(c)	N=26									
13.00-13.50	20	B										
13.50-14.00	22	B								. . . Sandy below 13.5m bgl. Sand is coarse.		
13.50-13.95	29	SPT(c)	N=27								14.50	
14.50-15.00	23	B								Very dense Greyish brown and pale brown sandy GRAVEL and COBBLES of subangular to subrounded sandstone with medium boulder content. Gravel is subangular to subrounded fine to medium mudstone, sandstone and siltstone. Sand is coarse.(Glaciofluvial Deposits)	(3.00)	
14.50-14.88	30	SPT	4,12/18,18,14 for 75mm									
15.00-15.50	25	B										
16.00-16.30	26	B										
16.30-16.50	27	B										
16.50-16.95	28	D										
16.50-16.95	31	SPT	N=49								17.50	
17.40-17.81	32	SPT	5,8/9,12,16,13 for 35mm							*Description on next sheet*		
17.50-18.00	29	B										

Boring Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress		
From	To	Duration (hh:mm)

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Cable Percussion + Rotary open hole	**Dando 3000 + Comacchio GEO 205**	**CJA**	**Jagan Raj**	

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RAW FIELD DATA

BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH323A**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**30.09.24** End: **08.10.24**	**---**	**E:277732.0 N:186074.0**	**3** of **7**

Depth (m)	Samples & Testing: No	Type	Results	Mechanical Log: TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
18.00-18.41	30	D								Very stiff greyish brown very gravelly CLAY. Gravel is rounded fine to coarse mudstone and sandstone. (Weathered South Wales Middle Coal Measures Formation). *(stratum copied from 17.50m from previous sheet)*		
19.00-19.50	31	B								. . . Becoming brown below 19.0m bgl.	(3.50)	
19.60-20.05	32	D										
19.60-20.05	33	SPT	N=40									
20.50-21.00	33	B									21.00	
21.00-21.38	34	SPT	7,14/12,15,23 for 75mm							Very dense greyish brown clayey subangular to subrounded fine to coarse GRAVEL and COBBLES of sandstone and mudstone. (Weathered South Wales Middle Coal Measures Formation).		
21.00-21.45	34	D										
22.50-22.76	36	SPT	14,11/40,10 for 35mm								(4.20)	
24.00-24.29	35	SPT	9,12/25,25 for 65mm									
											25.20	
										Grey MUDSTONE. (SOUTH WALES COAL MEASURES)	(0.50)	
											25.70	
25.70-25.82	37	SPT	25/50 for 40mm							MUDSTONE. (Drillers Description)		

Boring Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress		
From	To	Duration (hh:mm)

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Cable Percussion + Rotary open hole	**Dando 3000 + Comacchio GEO 205**	**CJA**	**Jagan Raj**	

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RAW FIELD DATA

BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH323A**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**30.09.24** End: **08.10.24**	**---**	**E:277732.0 N:186074.0**	**4** of **7**

Depth (m)	Samples & Testing: No	Type	Results	Mechanical Log: TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
27.50-27.52	1	SPT(c)	25/100 for 8mm							MUDSTONE. (Drillers Description) *(stratum copied from 25.70m from previous sheet)*	(5.60)	
29.00-29.01	2	SPT(c)	25/100 for 5mm									
30.50-30.51	3	SPT(c)	25/100 for 6mm								31.30	
										COAL. (Drillers Description)	31.70	
32.00-32.02	4	SPT(c)	25/100 for 10mm							MUDSTONE. (Drillers Description)	(0.90)	
											32.60	
										COAL. (Drillers Description)	(0.70)	
											33.30	
33.50-33.51	5	SPT(c)	25/100 for 9mm							MUDSTONE. (Drillers Description)	(2.90)	
35.00-35.01	6	SPT(c)	25/100 for 3mm									

Boring Progress and Water Observations

Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress

From	To	Duration (hh:mm)

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Cable Percussion + Rotary open hole	**Dando 3000 + Comacchio GEO 205**	**CJA**	**Jagan Raj**	

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RAW FIELD DATA

BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH323A**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**30.09.24** End: **08.10.24**	**---**	**E:277732.0 N:186074.0**	**5** of **7**

Depth (m)	Samples & Testing: No	Type	Results	Mechanical Log: TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
										MUDSTONE. (Drillers Description) *(stratum copied from 33.30m from previous sheet)*	36.20	
36.50-36.67	7	SPT(c)	9,12/100 for 20mm								(0.60)	
										COAL. (Drillers Description)	36.80	
										MUDSTONE/SANDSTONE. (Drillers Description)		
38.00-38.01	8	SPT(c)	25/100 for 8mm									
39.50-39.51	9	SPT(c)	25/100 for 3mm									
41.00-41.01	10	SPT(c)	25/100 for 6mm									
42.50-42.51	11	SPT(c)	25/100 for 6mm									
44.00-44.01	12	SPT(c)	25/100 for 6mm									

Boring Progress and Water Observations

Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress

From	To	Duration (hh:mm)

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Cable Percussion + Rotary open hole	**Dando 3000 + Comacchio GEO 205**	**CJA**	**Jagan Raj**	JB AGS

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RAW FIELD DATA

BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH323A**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**30.09.24** End: **08.10.24**	**---**	**E:277732.0 N:186074.0**	**6** of **7**

Depth (m)	Samples & Testing			Mechanical Log				Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
	No	Type	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)					
45.50-45.52	13	SPT(c)	25/100 for 12mm							MUDSTONE/SANDSTONE. (Drillers Description) *(stratum copied from 36.80m from previous sheet)*	(17.70)	
47.00-47.02	14	SPT(c)	25/100 for 10mm									
48.50-48.52	15	SPT(c)	25/100 for 8mm									
50.00-50.02	16	SPT(c)	25/100 for 12mm									
51.50-51.52	17	SPT(c)	25/100 for 9mm									
53.00-53.02	18	SPT(c)	25/100 for 13mm									

Boring Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress		
From	To	Duration (hh:mm)

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Cable Percussion + Rotary open hole	**Dando 3000 + Comacchio GEO 205**	**CJA**	**Jagan Raj**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH323A**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**30.09.24** End: **08.10.24**	**---**	**E:277732.0 N:186074.0**	**7** of **7**

Depth (m)	Samples & Testing: No	Type	Results	Mechanical Log: TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
										MUDSTONE/SANDSTONE. (Drillers Description) *(stratum copied from 36.80m from previous sheet)*	54.50	
54.50-54.52	19	SPT(c)	25/100 for 9mm							MUDSTONE. (Drillers Description)	(0.50) 55.00	
										COAL. (Drillers Description)	(0.60) 55.60	
										MUDSTONE. (Drillers Description)	56.00	
56.00-56.02	20	SPT(c)	25/100 for 11mm							MUDSTONE/SANDSTONE. (Drillers Description)	(1.52) 57.52	
57.50-57.52	21	SPT(c)	25/100 for 11mm							Borehole terminated on completion. Backfilled with arisings.		

Boring Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress		
From	To	Duration (hh:mm)

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Cable Percussion + Rotary open hole	**Dando 3000 + Comacchio GEO 205**	**CJA**	**Jagan Raj**	JB AGS

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FINAL

BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH324**

Contract Ref:	Start: **12.06.24**	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	End: **04.07.24**	**5.36**	**E:277655.7 N:186412.5**	**1** of **9**

Depth (m)	Samples & Testing: No	Type	Results	Mechanical Log: TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instrumentation	Water	Description of Strata	Fracture Log	Depth (Thickness)	Material Graphic Legend
										MADE GROUND: Black to brown silty sandy subangular to angular fine to coarse GRAVEL of brick, slag, mudstone. Sand is fine to coarse.		(1.20)	
												1.20	
1.20-1.52	1	SPT	7,9/16,21,13 for 16mm						1	MADE GROUND: Very dense brown gravelly fine to coarse SAND. Gravel is angular fine to coarse of brick, slag and mudstone.			
2.00-2.35	2	SPT	2,10/22,10,8 for 51mm						1	. . . Low angular cobble content of slag (upto 15cm long) between 1.20-1.60mbgl.		(2.30)	
3.00-3.45	3	SPT	N=14							. . . Large fragments of wood (possibly sleepers) at 3.0mbgl			
												3.50	
										MADE GROUND: Firm dark grey mottled black slightly gravelly slighty sandy silty CLAY with medium subangular cobble content of mudstone, sandstone or slag. Sand is fine to coarse. Gravel is angular coarse of red brick or slag.		(0.50)	
4.00-4.45	4	SPT	N=2									4.00	
										Very soft dark brown mottled dark grey silty CLAY. (TIDAL FLAT DEPOSITS)		(0.80)	
5.00-5.45	5	SPT	N=5									4.80	
										Loose brown clayey fine to coarse SAND. (TIDAL FLAT DEPOSITS)			
6.00-6.45	6	SPT	N=8									(3.80)	
										. . . Frequent pockets of firm, brown fibrous PEAT between 7.00-8.60mbgl.			
												8.60	
										Soft dark brown and black firm to spongey, clayey slightly sandy pseudo		9.00	

Boring Progress and Water Observations

Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth
02/07/24		66.00	29.50	146	1.85
03/07/24	08:30	68.50	67.50	N/R	1.85
	08:30	72.00	67.50	N/R	1.85

Chiselling / Slow Progress

From	To	Duration (hh:mm)
2.30	2.70	00:35

General Remarks

1. Position scanned with a CAT, Genny and GPR prior to excavation.
2. Inspection pit hand dug and mechanically excavated to 1.2m depth.
3. Groundwater encountered at 2.0m depth.

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Cable Percussion + Rotary Cored	**Dando 3000 + Beretta T41**	**CJA**	**Rachael Lockyer**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH324**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**12.06.24** End: **04.07.24**	**5.36**	**E:277655.7 N:186412.5**	**2** of **9**

Depth (m)	Samples & Testing: No	Type	Results	Mechanical Log: TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instrumentation	Water	Description of Strata	Fracture Log	Depth (Thickness)	Material Graphic Legend
										fibrous PEAT. Sand is fine to coarse. (TIDAL FLAT DEPOSITS)		(0.50)	
												9.50	
9.50-9.95	7	SPT	N=7							Soft greyish brown slightly organic sandy CLAY. Sand is fine to coarse. Organic content is firm, orange brown fibrous PEAT. (TIDAL FLAT DEPOSITS)			
										Soft to firm grey mottled dark grey silty CLAY. (TIDAL FLAT DEPOSITS)		(4.00)	
12.50-12.95	8	SPT	N=5										
												13.50	
13.50-13.95	9	SPT	6,6/7,17,22,4 for 70mm							Very dense brown rounded to subrounded fine to coarse GRAVELS and COBBLES of mudstone and sandstone. (Weathered South Wales Middle Coal Measures Formation).		(1.00)	
												14.50	
15.00-15.45	14	SPT	N=16							Firm to stiff brown very gravelly CLAY. High subrounded cobble content of mudstone and sandstone (upto 15cm). Gravel is subrounded to rounded of mudstone and sandstone. (Weathered South Wales Middle Coal Measures Formation).			
16.50-16.95	15	SPT	N=24										

Boring Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress		
From	To	Duration (hh:mm)

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Cable Percussion + Rotary Cored	**Dando 3000 + Beretta T41**	**CJA**	**Rachael Lockyer**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH324**

Contract Ref:	Start: **12.06.24** End: **04.07.24**	Ground Level:	National Grid Co-ordinate:	Sheet:
315531		**5.36**	**E:277655.7 N:186412.5**	**3** of **9**

Depth (m)	Samples & Testing: No	Type	Results	Mechanical Log: TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instrumentation	Water	Description of Strata	Fracture Log	Depth (Thickness)	Material Graphic Legend
18.00-18.45	16	SPT	N=28							Firm to stiff brown very gravelly CLAY. High subrounded cobble content of mudstone and sandstone (upto 15cm). Gravel is subrounded to rounded of mudstone and sandstone. (Weathered South Wales Middle Coal Measures Formation). *(stratum copied from 14.50m from* previous sheet)		(7.50)	
19.50-19.95	10	SPT	N=34							. . . Sandy.			
21.00-21.45	11	SPT	N=17									22.00	
22.50-22.77	12	SPT	12,10/15,35 for 40mm							MUDSTONE/SILTSTONE recovered as grey angular fine to coarse GRAVEL. (SOUTH WALES COAL MEASURES)		(1.50)	
23.50-25.00												23.50	
23.50-23.62	13	SPT	NP	80	9	7				Extremely weak to moderately weak destructured to partially unweathered grey brown MUDSTONE. (SOUTH WALES COAL MEASURES)		(3.00)	
25.00-26.50				73	0	0						26.50	
26.50-28.00												26.65	
26.50-26.95	17	SPT(c)	N=28	76	32	32	480 FI=2			Weak to moderately weak unweathered to partially unweathered black COAL. (SOUTH WALES COAL MEASURES)		(0.75)	

Boring Progress and Water Observations						Chiselling / Slow Progress			General Remarks
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)	

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Cable Percussion + Rotary Cored	**Dando 3000 + Beretta T41**	**CJA**	**Rachael Lockyer**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH324**

Contract Ref:	Start: **12.06.24** End: **04.07.24**	Ground Level:	National Grid Co-ordinate:	Sheet:
315531		**5.36**	**E:277655.7 N:186412.5**	**4** of **9**

Depth (m)	Samples & Testing: No	Type	Results	Mechanical Log: TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instrumentation	Water	Description of Strata	Fracture Log	Depth (Thickness)	Material Graphic Legend
				76	32	32	480 FI=2			Moderately weak to medium strong distinctly weathered dark brownish grey MUDSTONE. (SOUTH WALES COAL MEASURES) *(stratum copied from 26.65m from previous sheet)*	1	27.40 (0.60) 28.00	
28.00-29.50				0	0	0				Weak to moderately weak unweathered to partially unweathered black COAL. (SOUTH WALES COAL MEASURES) No recovery. . . . No recovery between 28.0m and 29.50m.		(1.50) 29.50	ZCL
29.50-31.00										Strong unweathered dark grey fine SANDSTONE/SILTSTONE. (SOUTH WALES COAL MEASURES)			
29.50-29.85	18	SPT(c)	10,11/11,22,17 for 50mm	21	21	14	80 80 80 FI=2				2[i]		
31.00-32.50				93	47	30	60 60 380 FI=8			. . . Becomes unweathered to partially unweathered weak to strong from 31.30m.	3[i]		
32.50-34.00													
32.50-32.64	19	SPT(c)	14,11/50 for 30mm	101	93	73	35 130 220 FI=11				4[i]		
34.00-34.40				78	53	27	20 65 107 FI=4				5[i]		
34.40-35.50				115	32	15	20 360 100 FI=9			. . . Rare bands of medium grained sandstone from 35 - 35.5m	6[i]	(10.50)	
35.50-37.00													
35.50-35.55	20	SPT(c)	25/50 for 20mm	98	39	39	110 160 260			. . . Occasional bands of medium grained sandstone from 35.5m			

Boring Progress and Water Observations						Chiselling / Slow Progress			General Remarks
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)	

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Cable Percussion + Rotary Cored	**Dando 3000 + Beretta T41**	**CJA**	**Rachael Lockyer**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH324**

Contract Ref:	Start: **12.06.24** End: **04.07.24**	Ground Level:	National Grid Co-ordinate:	Sheet:
315531		**5.36**	**E:277655.7 N:186412.5**	**5** of **9**

Depth (m)	Samples & Testing: No	Type	Results	Mechanical Log: TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instrumentation	Water	Description of Strata	Fracture Log	Depth (Thickness)	Material Graphic Legend
				98	39	39	FI=7 110 160 260 FI=7			Strong unweathered dark grey fine SANDSTONE/SILTSTONE. (SOUTH WALES COAL MEASURES) *(stratum copied from 29.50m from* previous sheet)	7[i]		
37.00-38.50				93	81	73	70 100 420 FI=8				8[i]		
38.50-40.00 38.50-38.54	21	SPT(c)	25/50 for 20mm	100	73	65	100 330 FI=9			. . . Frequent bands of black organic siltstone from 38.5m	9[i]	40.00	
40.00-41.50				87	51	37	80 100 180 FI=10			Medium strong to strong unweathered dark grey SILTSTONE. (SOUTH WALES COAL MEASURES)	10[i]	(1.50) 41.50	
41.50-43.00 41.50-41.62	22	SPT(c)	25/42,8 for 5mm	100	40	13				Medium strong unweathered dark grey MUDSTONE. (SOUTH WALES COAL MEASURES)		(1.50) 43.00	
43.00-44.50				0	0	0	15 100 140 FI=14			Moderately weak to medium strong unweathered dark grey brown MUDSTONE. Rare subrounded nodules of brown fine sandstone. Rare thin bands of black coal. (SOUTH WALES COAL MEASURES) . . . Frequent thin bands of coal.	11	(1.10) 44.10	
44.50-46.00 44.50-44.95	23	SPT(c)	N=25	0	0	0	80 300 690			Extremely weak dark brown to black distinctly weathered to partially unweathered COAL. (SOUTH WALES COAL MEASURES)		44.50	

Boring Progress and Water Observations						Chiselling / Slow Progress			General Remarks
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)	

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Cable Percussion + Rotary Cored	**Dando 3000 + Beretta T41**	**CJA**	**Rachael Lockyer**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH324**

Contract Ref:	Start: **12.06.24** End: **04.07.24**	Ground Level:	National Grid Co-ordinate:	Sheet:
315531		**5.36**	**E:277655.7 N:186412.5**	**6** of **9**

Depth (m)	Samples & Testing: No	Type	Results	Mechanical Log: TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instrumentation	Water	Description of Strata	Fracture Log	Depth (Thickness)	Material Graphic Legend
							FI=5			Very weak to moderately weak partially unweathered black COAL. (SOUTH WALES COAL MEASURES) *(stratum copied from 44.50m from* previous sheet)	12[i]	(1.50)	
				0	0	0	80 300 690 FI=5					46.00	
46.00-47.50				97	90	85	50 270 400 FI=5			Very weak to medium strong unweathered to distinctly weathered black COAL. (SOUTH WALES COAL MEASURES)		46.35	
										Medium strong to strong unweathered brownish grey interbedded SILTSTONE and MUDSTONE. Rare subrounded to rounded nodules of fine sandstone. Black mottled organic inclusions at the top. (SOUTH WALES COAL MEASURES)		(1.15)	
47.50-49.00				95	85	85	125 250 355 FI=5			Very weak to moderately weak brownish grey, unweathered MUDSTONE. Frequent greyish brown subrounded to rounded nodules of sandstone upto 100m across. (SOUTH WALES COAL MEASURES)	13[i]	47.50	
49.00-50.50				98	96	93	30 200 290 FI=4			. . . Becomes moderately weak to medium strong grey with frequent very thin bands of fine grained sandstone/siltstone from 49m. . . . Nodules become rare at 49.30m	14	(3.24)	
50.50-52.00				102	88	84	50 130 360 FI=10			. . . Becomes distinctly weathered between 50.4-50.43m depth.	15[i]	50.74	
										Weak to medium strong dark grey/brownish grey unweathered MUDSTONE. Thin bands of distinctly weathered coal/organic mudstone. (SOUTH WALES COAL MEASURES)		51.20	
52.00-53.50				96	67	63	35 280 340 FI=6			Medium strong brownish grey unweathered MUDSTONE. Rare subangular to subrounded nodules of fine sandstone. Frequent very thin bands of fine sandstone/siltstone and organic mudstone/coal. (SOUTH WALES COAL MEASURES) . . . Nodules and coal/organic mudstone no longer present from 52m depth.	16[i] 17[i]	(2.50)	
53.50-55.00				100	71	71	3 5 40			. . . Becoming moderately weak to medium strong dark grey slightly organic from 53.2n.		53.70	
										Description on next sheet	18	54.00	

Boring Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress		
From	To	Duration (hh:mm)

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Cable Percussion + Rotary Cored	**Dando 3000 + Beretta T41**	**CJA**	**Rachael Lockyer**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH324**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**12.06.24** End: **04.07.24**	**5.36**	**E:277655.7 N:186412.5**	**7** of **9**

Depth (m)	Samples & Testing: No	Type	Results	Mechanical Log: TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instrumentation	Water	Description of Strata	Fracture Log	Depth (Thickness)	Material Graphic Legend
							FI=120			Extremely weak distinctly weathered dark grey black COAL. Fractures are close to very close.			
				100	71	71	40 30 450 FI=4				19[i]	(1.10)	
55.00-56.50										Moderately weak to medium strong unweathered brownish grey SILTSTONE. Rare subangular to rounded nodules of fine to medium SANDSTONE. (SOUTH WALES COAL MEASURES)		55.10 (0.55)	
				94	93	88	110 200 280 FI=7			Moderately weak to strong unweathered to partially weathered grey MUDSTONE. Rare subangular to rounded nodules of fine to medium sandstone. (SOUTH WALES COAL MEASURES)	20[i]	55.65	
56.50-58.00										Medium strong to strong unweathered brownish grey interbedded MUDSTONE and SILTSTONE. Rare subangular to rounded nodules of fine to medium sandstone. Rare black mottling (coal /petrified wood/organic mudstone). (SOUTH WALES COAL MEASURES)		(1.90)	
56.50-56.54	24	SPT(c)	25/50 for 20mm	96	59	47	80 250 400 FI=6				21[i]	57.55	
58.00-59.50										Medium strong to very strong unweathered grey fine SANDSTONE. (SOUTH WALES COAL MEASURES)		(0.95)	
				96	11	11	50 150 350 FI=5			Medium strong to strong unweathered brownish grey interbedded MUDSTONE and SILTSTONE/FINE SANDSTONE. (SOUTH WALES COAL MEASURES)	22[i]	58.50	
59.50-60.00				80	80	80				. . . Frequent bands/pockets of fine sandstone/siltstone			
60.00-60.04	25	SPT(c)	25/50 for 20mm				1500 1180 1000			. . . Rare sandstone bands and occasional organic inclusions from 60.0m.	23[i]		
61.50-63.00				98	98	89	60 300 450 FI=6			. . . Becomes medium strong to strong at 61.7m Occasional nodules of subrounded to rounded fine sandstone.	24[i]	(9.00)	

Boring Progress and Water Observations

Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress

From	To	Duration (hh:mm)

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Cable Percussion + Rotary Cored	**Dando 3000 + Beretta T41**	**CJA**	**Rachael Lockyer**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH324**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**12.06.24** End: **04.07.24**	**5.36**	**E:277655.7 N:186412.5**	**8** of **9**

Depth (m)	Samples & Testing: No	Type	Results	Mechanical Log: TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instrumentation	Water	Description of Strata	Fracture Log	Depth (Thickness)	Material Graphic Legend
63.00-64.50										Medium strong to strong unweathered brownish grey interbedded MUDSTONE and SILTSTONE/FINE SANDSTONE. (SOUTH WALES COAL MEASURES) *(stratum copied from 58.50m from* previous sheet)			
63.00-63.05	26	SPT(c)	25/50 for 30mm	94	80	80	330 330 330 FI=2				25[i]		
64.50-66.00				103	103	103	116 410 660 FI=3				26[i]		
66.00-67.50													
66.00-66.04	27	SPT(c)	25/50 for 15mm	96	96	78	90 250 720 FI=5				27[i]		
												67.50	
67.50-69.00										No recovery.			
67.50-67.62	28	SPT(c)	21/50 for 40mm	0	0	0				. . . Open holed between 68.50-69.0mbgl.		(1.50)	ZCL
												69.00	
69.00-70.50				98	84	81	40 200 400 FI=7			Medium strong to strong unweathered brownish grey interbedded MUDSTONE and SILTSTONE/FINE SANDSTONE. (SOUTH WALES COAL MEASURES)	28[i]	(1.50)	
												70.50	
70.50-72.00				90	90	78	130 200 170 FI=5			Strong to extremely strong unweathered pale grey fine SANDSTONE. (SOUTH WALES COAL MEASURES) . . . Occasional thin bands of organic mudstone between 70.5 - 70.70m.	29[i]	(0.90)	
												71.40	
										Description on next sheet			

Boring Progress and Water Observations						Chiselling / Slow Progress			General Remarks
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)	

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Cable Percussion + Rotary Cored	**Dando 3000 + Beretta T41**	**CJA**	**Rachael Lockyer**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH324**

Contract Ref:	Start: **12.06.24** End: **04.07.24**	Ground Level:	National Grid Co-ordinate:	Sheet:
315531		**5.36**	**E:277655.7 N:186412.5**	**9** of **9**

Depth (m)	Samples & Testing: No	Type	Results	Mechanical Log: TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instrumentation	Water	Description of Strata	Fracture Log	Depth (Thickness)	Material Graphic Legend
72.00-73.50				40	15	0				Strong unweathered dark grey MUDSTONE. (SOUTH WALES COAL MEASURES) *(stratum copied from 71.40m from* previous sheet)		(2.30)	
												73.70	
73.50-75.00				100	84	84	15 55 FI=7			Extremely weak to weak partially weathered to distinctly weathered black to brown COAL. (SOUTH WALES COAL MEASURES)	30	(0.80)	
												74.50	
										Moderately weak to medium strong partially unweathered dark grey organic MUDSTONE. (SOUTH WALES COAL MEASURES)		(0.60)	
75.00-75.10	29	SPT(c)	8/39,11 for 10mm									75.10	
										Terminated at 75.0mbgl			

Boring Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress		
From	To	Duration (hh:mm)

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Cable Percussion + Rotary Cored	**Dando 3000 + Beretta T41**	**CJA**	**Rachael Lockyer**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH325**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**31.07.24** End: **05.08.24**	**---**	**E:277344.0 N:186510.0**	**1** of **4**

Depth (m)	Samples & Testing: No	Type	Results	Mechanical Log: TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
										(Lagoon water)	(5.00)	
											5.00	
5.00-6.00	1	B								Black slightly silty SAND. Sand is fine. Strong musty sulfurous odour. (Tidal Flat Deposits)	(1.30)	
6.20-6.65	2	D									6.30	
6.20-6.65	6	SPT	N=13							Medium dense greenish brown fine silty SAND. (Tidal Flat Deposits)	(0.70)	
6.60-7.10	3	B									7.00	
7.10-7.55	4	D								Firm becoming soft blackish dark grey slightly sandy clayey SILT with rare organic content. Sand is fine to medium. (Tidal Flat Deposits)		
7.10-7.55	7	SPT	N=8									
7.60-8.00	5	B										
8.00-8.45	6	U	20 blows									
8.45-8.60	7	D									(3.10)	
8.60-9.00	8	B										

Boring Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress		
From	To	Duration (hh:mm)

General Remarks

1. Borehole drilled over water utilising a floating pontoon. All depths are measure from the surface of the water.
2. Water depth was 5.0m at location. This depth is affected by changing water levels.

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Cable Percussion + Rotary open hole	**Dando 2500 + Beretta T41**	**CJA**	**Adam Livesey**	JB

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH325**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**31.07.24** End: **05.08.24**	**---**	**E:277344.0 N:186510.0**	**2** of **4**

Depth (m)	Samples & Testing: No	Type	Results	Mechanical Log: TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
9.00-9.45	8	SPT	N=0							Firm becoming soft blackish dark grey slightly sandy clayey SILT with rare organic content. Sand is fine to medium. (Tidal Flat Deposits) *(stratum copied from 7.00m from previous sheet)* . . . Becomes very soft at 9.0m bgl.		
9.00-9.45	9	D										
9.50-10.00	10	B										
10.00-10.45	11	U	32 blows								10.10	
10.45-10.60	12	D								Loose grey silty fine to medium SAND. (Tidal Flat Deposits)	(0.90)	
											11.00	
11.50-12.00	13	B								Firm reddish brown fibrous PEAT. Moderate organic odour. (Tidal Flat Deposits)	(1.70)	
12.00-12.45	9	SPT	N=10									
12.00-12.45	14	D									12.70	
13.00-13.50	15	B								Firm grey clayey SILT with rare pockets of fibrous PEAT. (Tidal Flat Deposits)		
13.50-13.95	16	U	15 blows									
13.95-14.10	17	D										
14.50-15.00	18	B									(4.40)	
15.00-15.45	10	SPT	N=6									
15.00-15.45	19	D										
16.00-16.50	20	B										
16.50-16.95	21	U	28 blows									
16.95-17.10	22	D									17.10	
17.50-18.00	23	B								Firm greyish brown slightly sandy gravelly silty CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse of mudstone. (Tidal Flat Deposits)	17.50	
										Description on next sheet		

Boring Progress and Water Observations						Chiselling / Slow Progress			General Remarks
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)	

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Cable Percussion + Rotary open hole	**Dando 2500 + Beretta T41**	**CJA**	**Adam Livesey**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH325**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**31.07.24** End: **05.08.24**	**---**	**E:277344.0 N:186510.0**	**3** of **4**

Depth (m)	Samples & Testing: No	Type	Results	Mechanical Log: TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
18.00-18.45	1	SPT	N=49							Dense greyish dark brown sandy clayey silty subangular to rounded fine to coarse GRAVEL of mudstone, siltstone and sandstone with moderate cobble content. Cobbles are subangular to rounded of sandstone. (Weathered South Wales Middle Coal Measures Formation) *(stratum copied from 17.50m from previous sheet)*	(3.30)	
18.00-18.45	24	D										
19.00-19.50	25	B										
19.50-19.77	2	SPT	10,15/27,23 for 75mm							. . . Becomes very dense at 19.50m bgl.		
19.50-20.00	27	B										
20.50-21.00	28	B									20.80	
21.00-21.45	3	SPT	N=46							Very stiff to hard dark brown brown sandy gravelly CLAY with low cobble content. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse of mudstone and siltstone. Cobbles are angular of mudstone/siltstone. (Weathered South Wales Middle Coal Measures Formation)	(6.80)	
21.00-21.45	29	D										
22.00-22.50	30	B										
22.50-22.81	4	SPT	8,10/18,21,11 for 10mm									
22.50-22.81	31	D										
23.50-24.00	32	B										
24.00-24.45	5	SPT	N=37									
24.00-24.45	33	D										
25.00-25.50	34	B										
25.50-25.89	12	SPT	5,7/11,16,16,7 for 10mm									
25.50-25.85	35	D										
26.50-27.00	36	B										

Boring Progress and Water Observations

Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress

From	To	Duration (hh:mm)

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Cable Percussion + Rotary open hole	**Dando 2500 + Beretta T41**	**CJA**	**Adam Livesey**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH325**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**31.07.24** End: **05.08.24**	**---**	**E:277344.0 N:186510.0**	**4** of **4**

Depth (m)	Samples & Testing: No	Type	Results	Mechanical Log: TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
27.00-27.34	13	SPT	14,11/17,20,13 for 55mm									
27.00-27.30	37	D									27.60	
										MUDSTONE (South Wales Middle Coal Measures Formation)		
27.80-28.00	38	B										
28.00-28.03	14	SPT(c)	25/50 for 15mm								(2.43)	
											30.03	
30.00-30.03	11	SPT(c)	25/50 for 24mm							Borehole terminated at 32.0m bgl.		

Boring Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress		
From	To	Duration (hh:mm)

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Cable Percussion + Rotary open hole	**Dando 2500 + Beretta T41**	**CJA**	**Adam Livesey**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH326**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**06.08.24** End: **08.08.24**	**---**	**E:277269.0 N:186598.0**	**1** of **4**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
						(Lagoon water)	(4.50)	
							4.50	
4.50-5.50	1	B				Very soft black slightly sandy SILT. Sand is fine. Strong musty sulfurous odour. (Lagoon bed sludge).	(1.00)	
4.50-5.50	1	ES					5.50	
5.50-5.95	1	SPT	N=2			Very loose grey clayey silty fine to medium SAND. (BLOWN SAND)	(1.10)	
5.50-5.95	2	D						
5.50-6.50	3	B					6.60	
6.50-6.95	2	SPT	N=19			Soft grey slightly sandy silty CLAY. Sand is fine to coarse. (TIDAL FLAT DEPOSITS)	(1.40)	
6.50-6.95	4	D						
7.00-7.50	5	B						
7.50-7.95	6	U	12 blows				8.00	
7.95-8.10	7	D						
8.00-8.50	8	B				Soft grey slightly sandy clayey SILT. Sand is fine to coarse. (TIDAL FLAT DEPOSITS)		
8.50-8.95	3	SPT	N=16					
8.50-8.95	9	D						

Boring Progress and Water Observations

Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress

From	To	Duration (hh:mm)

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Cable Percussion	**Dando 4000**	**CJA**	**Adam Livesey**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH326**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**06.08.24** End: **08.08.24**	**---**	**E:277269.0 N:186598.0**	**2** of **4**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
9.00-9.60	10	B				Soft grey slightly sandy clayey SILT. Sand is fine to coarse. (TIDAL FLAT DEPOSITS) *(stratum copied from 8.00m from previous sheet)*	(2.50)	
9.60-10.05	11	U	27 blows					
10.05-10.20	12	D						
							10.50	
10.50-11.20	13	B				Firm brown fibrous PEAT. Strong organic odour. (TIDAL FLAT DEPOSITS)	(1.10)	
11.20-11.65	4	SPT	N=20					
11.20-11.65	14	D						
							11.60	
						Soft to firm grey slightly sandy clayey SILT. Sand is fine. (TIDAL FLAT DEPOSITS)	(0.90)	
12.00-12.50	15	B						
							12.50	
12.50-12.95	16	U	17 blows			Grey slightly gravelly clayey silty fine to coarse SAND. Gravel is subangular to subrounded fine to coarse of sandstone. (TIDAL FLAT DEPOSITS)	(4.70)	
12.95-13.10	17	D						
13.00-13.60	18	B						
13.60-14.05	5	SPT	N=4					
13.60-14.05	19	D						
14.50-15.00	20	B						
15.00-15.45	21	U	17 blows					
15.45-15.60	22	D						
16.00-16.50	23	B						
16.50-16.95	6	SPT	N=4					
16.50-16.95	24	D						
							17.20	
17.50-18.00	25	B				Soft to firm brownish grey slightly gravelly sandy silty CLAY. Sand is fine to coarse. Gravel is angular to subrounded fine to coarse of sandstone. (TIDAL FLAT DEPOSITS)		

Boring Progress and Water Observations

Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress

From	To	Duration (hh:mm)

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Cable Percussion	**Dando 4000**	**CJA**	**Adam Livesey**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH326**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**06.08.24** End: **08.08.24**	**---**	**E:277269.0 N:186598.0**	**3** of **4**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
18.00-18.42	7	SPT	2,4/7,10,14,20 for 40mm			Soft to firm brownish grey slightly gravelly sandy silty CLAY. Sand is fine to coarse. Gravel is angular to subrounded fine to coarse of sandstone. (TIDAL FLAT DEPOSITS) *(stratum copied from 17.20m from previous sheet)* . . . Clay becoming firm (Boulder CLAY)	(1.80) 19.00	
18.00-18.45	26	D						
19.00-19.60	27	B				Dark brownish grey sandy clayey GRAVEL of subangular to subrounded fine to coarse mudstone. (Weathered South Wales Middle Coal Measures Formation).	(6.00) 25.00	
19.60-20.05	8	SPT	N=40					
20.50-21.00	29	B						
21.00-21.45	9	SPT	N=30					
22.00-22.50	31	B						
22.50-22.95	10	SPT	N=25					
22.50-23.00	33	B						
23.50-24.00	34	B						
24.00-24.35	11	SPT	5,9/14,16,20 for 45mm					
25.00-25.50	36	B				Greyish brown clayey subrounded to rounded coarse GRAVEL and subrounded to rounded COBBLES of mudstone. (Weathered South Wales Middle Coal Measures Formation)	(2.00) 27.00	
25.50-25.95	12	SPT	N=32					
26.50-27.00	38	B						

Boring Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress		
From	To	Duration (hh:mm)

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Cable Percussion	**Dando 4000**	**CJA**	**Adam Livesey**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH326**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**06.08.24** End: **08.08.24**	**---**	**E:277269.0 N:186598.0**	**4** of **4**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
27.00-27.41	13	SPT	5,7/9,14,16,11 for 35mm			SILTSTONE. Recovered as brown subangular to subrounded fine to coarse GRAVEL of siltstone. (SOUTH WALES COAL MEASURES). . . . Band of coal.	(5.00)	
							32.00	
						Terminated due to refusal at 32m depth from water.		

Boring Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress		
From	To	Duration (hh:mm)

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Cable Percussion	**Dando 4000**	**CJA**	**Adam Livesey**	JB

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH327**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**12.08.24** End: **14.08.24**	**---**	**E:277122.0 N:186589.0**	**1** of **4**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
						(Lagoon Water)	(3.50)	
							3.50	
3.50-4.00	1	B				Black sandy SILT with a strong hydrocarbon odour and sheen. Sand is fine.	(2.00)	
3.50-4.00	1	ES						
4.50-5.50	2	ES						
4.50-5.50	2	B						
							5.50	
5.50-5.95	1	SPT	N=6			Brownish grey sandy silty CLAY.	(3.00)	
5.50-5.95	3	D						
6.00-6.50	3	ES						
6.00-6.50	4	B						
6.50-6.95	6	D						
7.00-7.50	7	B						
7.50-7.95	8	D						
8.00-8.50	9	B						
							8.50	
8.50-9.00	10	B				Greyish brown fine to medium SAND. (BLOWN SAND)		

Boring Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress		
From	To	Duration (hh:mm)

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Cable Percussion	**Dando 4000**	**CJA**	**Jagan Raj**	JB AGS

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH327**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**12.08.24** End: **14.08.24**	**---**	**E:277122.0 N:186589.0**	**2** of **4**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
						Greyish brown fine to medium SAND. (BLOWN SAND) *(stratum copied from 8.50m from previous sheet)*	(1.50) 10.00	
10.00-10.50	11	B				Firm dark reddish brown fibrous PEAT. (TIDAL FLAT DEPOSITS)		
10.50-10.95	3	SPT	N=30					
10.50-10.95	12	D					(2.00)	
11.50-12.00	13	B					12.00	
						Dark grey silty CLAY with occasional pockets of pseudo-fibrous peat. (TIDAL FLAT DEPOSITS)		
12.45-12.60	15	D						
13.00-13.50	16	B						
13.50-13.95	4	SPT	N=13					
13.50-13.95	17	D					(4.50)	
14.50-15.00	18	B						
15.45-15.60	20	D						
16.00-16.50	21	B					16.50	
16.50-16.95	5	SPT	N=10			Firm brown fibrous PEAT. (TIDAL FLAT DEPOSITS)	16.80	
16.50-16.95	22	D				Brownish grey slightly sandy silty CLAY. (TIDAL FLAT DEPOSITS)		
17.50-18.00	23	B					(1.20) 18.00	

Boring Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress		
From	To	Duration (hh:mm)

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Cable Percussion	**Dando 4000**	**CJA**	**Jagan Raj**	JB AGS

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH327**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**12.08.24** End: **14.08.24**	**---**	**E:277122.0 N:186589.0**	**3** of **4**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
18.00-18.41	6	SPT	6,11/16,10,11,13 for 30mm			Greyish brown angular fine to coarse GRAVEL and angular COBBLES of mudstone and siltstone. (Weathered South Wales Middle Coal Measures Formation).	(1.50)	
18.00-18.40	24	D						
18.50-19.00	25	B						
19.00-19.50	26	B					19.50	
19.50-19.95	27	D				Greyish brown clayey subrounded to rounded fine to coarse GRAVEL of mudstone and siltstone. (Weathered South Wales Middle Coal Measures Formation)		
20.50-21.00	28	B						
21.00-21.45	29	D				. . . Obstruction at 21.5m bgl. Recovered as greyish brown rounded boulder of mudstone (20cm).		
22.00-22.50	30	B					(13.50)	
22.50-22.90	31	D						

Boring Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress		
From	To	Duration (hh:mm)

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Cable Percussion	**Dando 4000**	**CJA**	**Jagan Raj**	JB AGS

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH327**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	End: **14.08.24**	**---**	**E:277122.0 N:186589.0**	**4** of **4**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
						Greyish brown clayey subrounded to rounded fine to coarse GRAVEL of mudstone and siltstone. (Weathered South Wales Middle Coal Measures Formation) *(stratum copied from 19.50m from previous sheet)*	33.00	

Boring Progress and Water Observations						Chiselling / Slow Progress			General Remarks
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)	

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Cable Percussion	**Dando 4000**	**CJA**	**Jagan Raj**	JB

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH328**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**27.06.24** End: **10.07.24**	**17.31**	**E:276936.9 N:186648.4**	**1** of **5**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
						MADE GROUND: grey and brown dry sandy silty GRAVEL of subangular to subrounded fine to coarse slag and occassional metal.	(1.20)	
0.50	1	ES					1.20	
						MADE GROUND: dark grey mottled black slightly sandy gravelly silty CLAY with moderate ash content. Gravel is subangular to subrounded fine to coarse shell fragments, calcerous material, slag and sandstone. Sand is fine and metallic.	(1.80)	
1.50	2	ES						
2.50-2.95	1	SPT(c)	N=8					
2.50	3	B					3.00	
						MADE GROUND: subrounded fine to coarse GRAVEL and subrounded COBBLES of slag.	3.40	
3.50	4	B				MADE GROUND: dark grey slightly gravelly slightly sandy silty CLAY with moderate ash content. Gravel is subangular to subrounded fine to coarse slag. Sand is fine.		
4.00-4.45	2	SPT(c)	N=24					
4.50	5	B						
5.00-5.45	3	SPT(c)	N=15					
5.00	6	B					(4.40)	
7.50-7.95	4	SPT(c)	N=12					
							7.80	
8.00	7	B				Firm dark grey slightly gravelly silty CLAY. Gravel is subangular to subrounded fine to coarse petrified wood. (TIDAL FLAT DEPOSITS)	(1.70)	

Boring Progress and Water Observations

Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth
27/06/24		3.00	3.00	N/R	Dry
02/07/24			None	N/R	Dry
03/07/24			None	N/R	Dry
04/07/24		14.50	15.50	N/R	12.20
05/07/24	09:00	21.20	19.50	N/R	12.00
08/07/24		26.00	28.50	N/R	14.20
09/07/24		34.50	34.50	N/R	16.20

Chiselling / Slow Progress

From	To	Duration (hh:mm)
0.30	1.60	02:50
4.40	4.80	00:45
14.40	15.50	02:00
15.50	16.90	02:50
28.70	29.20	00:40
31.10	31.70	01:02
33.40	34.50	01:30
35.10	36.90	03:30

General Remarks

1. Position scanned with a CAT, Genny and GPR prior to excavation.
2. Inspection pit machine dug to 2.2m depth.
3. Collapse at 14m bgl at approximately 13:00. Ingress from blowing sand raised borehole depth to 12m bgl.

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Cable Percussion	**Dando 3000**	**CJA**	**Jagan Raj**	JB AGS

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH328**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**27.06.24** End: **10.07.24**	**17.31**	**E:276936.9 N:186648.4**	**2** of **5**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
9.00-9.45	5	SPT(c)	N=29			. . . Becoming stiff at 9.00mbgl.		
9.50	8	B				Medium dense grey brown silty fine SAND. (TIDAL FLAT DEPOSITS)	9.50	
10.50-10.95	6	SPT(c)	N=25					
11.00	9	B						
12.00-12.45	7	SPT(c)	N=26					
12.50	10	B						
13.50-13.95	8	SPT(c)	N=46			. . . Becoming dense at 13.5mbgl.		
14.50	11	B					(10.00)	
15.00-15.45	9	SPT(c)	N=37					
15.50	12	B						
16.50-16.95	10	SPT	N=50					
16.50	13	D						
17.50	14	B						

Boring Progress and Water Observations

Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress

From	To	Duration (hh:mm)
38.30	38.60	00:30

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Cable Percussion	**Dando 3000**	**CJA**	**Jagan Raj**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH328**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**27.06.24** End: **10.07.24**	**17.31**	**E:276936.9 N:186648.4**	**3** of **5**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
18.00-18.45	11	SPT	N=43			Medium dense grey brown silty fine SAND. (TIDAL FLAT DEPOSITS) *(stratum copied from 9.50m from previous sheet)*		
18.00	15	D						
18.90-19.35	13	SPT	N=5					
19.00	16	B						
							19.50	
19.50-19.95	12	SPT	N=48			Very stiff brown fibrous PEAT, with fine to coarse fragments of petrified wood, with strong organic odour. (TIDAL FLAT DEPOSITS)		
19.50	17	D						
20.00	18	B					(2.00)	
21.00	19	D						
							21.50	
21.50	20	B				Very soft grey organic silty CLAY with pockets of fine sand. (TIDAL FLAT DEPOSITS)		
22.50-22.95	13	SPT	N=3					
22.50	21	D						
23.00	22	B						
24.00-24.45	23	U	24 blows 22% recovery					
24.50	24	D						
24.65	25	B					(7.00)	
25.50-25.95	14	SPT	N=7			. . . Becoming soft at 25.5mbgl.		
25.50	26	D						
26.00	27	B						
26.75	28	B						

Boring Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress		
From	To	Duration (hh:mm)

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Cable Percussion	**Dando 3000**	**CJA**	**Jagan Raj**	JB AGS

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH328**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**27.06.24** End: **10.07.24**	**17.31**	**E:276936.9 N:186648.4**	**4** of **5**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
27.00-27.45	15	SPT	N=17			Very soft grey organic silty CLAY with pockets of fine sand. (TIDAL FLAT DEPOSITS) *(stratum copied from 21.50m from previous sheet)* . . . Becoming firm at 27.0mbgl.		
27.00	29	D						
27.50	30	B						
28.00	31	B						
							28.50	
28.50-28.88	16	SPT	3,9/16,23,11 for 75mm			Very stiff dark grey gravelly CLAY. Gravel is subangular to subrounded fine to coarse of mudstone and siltstone. (Weathered South Wales Middle Coal Measures Formation).	(1.50)	
28.60	32	B						
							30.00	
30.00-30.45	17	SPT	N=50			Very dense grey slightly sandy clayey subangular to subrounded fine to coarse GRAVEL of mudstone siltstone. Sand is fine to coarse. (Weathered South Wales Middle Coal Measures Formation).	(1.00)	
30.50	33	B						
							31.00	
31.50-31.88	18	SPT(c)	12,13/70,20,30 for 75mm			Very dense dark grey sandy, clayey subangular to subrounded medium to coarse GRAVEL of mudstone and siltstone, with high cobble content. Sand is fine to coarse. Cobbles are subangular to rounded of mudstone siltstone. (Weathered South Wales Middle Coal Measures Formation).	(1.50)	
32.00	34	B						
							32.50	
33.00-33.38	19	SPT(c)	18,7/25,23,27 for 75mm			Very dense dark grey slightly sandy, clayey subangular to subrounded fine to coarse GRAVEL of mudstone, siltstone. Sand is fine to coarse. (Weathered South Wales Middle Coal Measures Formation)	(1.50)	
33.50	35	B						
							34.00	
35.00-35.38	20	SPT(c)	6,8/16,23,11 for 75mm			Very stiff dark grey gravelly CLAY. Gravel is subangular to subrounded fine to coarse of mudstone and siltstone. (Weathered South Wales Middle Coal Measures Formation)		
35.50	36	B					(3.50)	

Boring Progress and Water Observations

Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress

From	To	Duration (hh:mm)

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Cable Percussion	**Dando 3000**	**CJA**	**Jagan Raj**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH328**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**27.06.24** End: **10.07.24**	**17.31**	**E:276936.9 N:186648.4**	**5** of **5**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
36.50-36.95	21	SPT(c)	N=90			Very stiff dark grey gravelly CLAY. Gravel is subangular to subrounded fine to coarse of mudstone and siltstone. (Weathered South Wales Middle Coal Measures Formation) *(stratum copied from 34.00m from previous sheet)*	37.50	
37.50	37	B				COAL. Recovered as black gravelly SAND of angular to subangular coarse coal. Sand is fine to coarse. (SOUTH WALES COAL MEASURES)	(1.88)	
39.00-39.38	22	SPT(c)	8,12/12,26,12 for 75mm				39.38	

Boring Progress and Water Observations						Chiselling / Slow Progress			General Remarks
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)	

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Cable Percussion	**Dando 3000**	**CJA**	**Jagan Raj**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH329**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**21.06.24** End: **04.07.24**	**17.37**	**E:276854.5 N:186589.5**	**1** of **5**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
						MADE GROUND. Grey slightly sandy silty angular fine to coarse GRAVEL of slag. Sand is fine to coarse.	0.30	
						MADE GROUND. Brown angular COBBLES of red brick, metal and concrete. Medium boulder content of concrete and brick walls. Frequent fragments of disused cables. . . . Reinforced concrete obstruction in north wall (approx 10cm thick).	(1.40)	
					1	. . . Concrete concrete obstruction in north wall (approx 25cm thick)	1.70	
						MADE GROUND. CONCRETE recovered as cobbles and boulders . . . Flat concrete slab encountered at 1.7mbgl, at least 7m long.	2.10	
						MADE GROUND. Dark brown sandy clayey angular fine to coarse GRAVEL of various lithologies including red brick, concrete and slag. Sand is fine to coarse.	(1.90)	
							4.00	
4.50-5.00 4.50	1 1	B ES				Loose dry yellow brown fine to coarse SAND. (BLOWN SAND)		
5.00-5.45	2	D						
5.50-6.20	3	B						
6.20-6.65	4	D						
7.00-7.60	5	B						
7.60-8.05 7.60-8.05	6 12	D SPT	N=5					
8.50-9.00	7	B					(10.00)	

Boring Progress and Water Observations

Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth
24/06/24	08:30	20.70	21.50	N/R	2.53
24/06/24	16:00	24.70	24.00	N/R	3.00
01/07/24	08:30	12.80	14.00	N/R	10.90
01/07/24	16:00	22.00	22.50	N/R	18.00
28/06/24	15:00	14.00	14.00	N/R	12.70

Chiselling / Slow Progress

From	To	Duration (hh:mm)
21.70	21.90	00:30
24.30	24.50	01:00

General Remarks

1. Position scanned with a CAT, Genny and GPR prior to excavation.
2. Inspection pit mechanically excavated to 1.70m bgl. Concrete obstruction encountered. Return to location on 26/06/2024 with breaker to excavate to 4.5m bgl.

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Cable Percussion	**Dando 2500**	**CJA**	**Jagan Raj**	JB

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH329**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**21.06.24** End: **04.07.24**	**17.37**	**E:276854.5 N:186589.5**	**2** of **5**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
9.00-9.45	8	D				Loose dry yellow brown fine to coarse SAND. (BLOWN SAND) *(stratum copied from 4.00m from previous sheet)*		
9.00-9.45	13	SPT	N=8					
10.00-10.50	9	B						
10.50-10.95	10	D				. . . Becoming dense at 10.5mbgl.		
10.50-10.95	14	SPT	N=32					
11.50-12.30	11	B						
12.30-12.75	12	D						
13.20-13.70	13	B						
13.70-14.15	16	SPT	N=13				14.00	
						Medium dense grey brown fine SAND. (BLOWN SAND)	(1.45)	
15.00-15.45	8	SPT	N=15				15.45	
						Dark grey fine silty SAND. (TIDAL FLAT DEPOSITS)	(1.55)	
16.50-16.95	9	SPT	N=50			. . . Becoming very dense at 16.50mbgl	17.00	
						Very stiff dark grey silty CLAY. (TIDAL FLAT DEPOSITS)	(2.00)	

Boring Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress		
From	To	Duration (hh:mm)

General Remarks

3. Groundwater encountered at 1.7m bgl

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Cable Percussion	**Dando 2500**	**CJA**	**Jagan Raj**	JB

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH329**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**21.06.24** End: **04.07.24**	**17.37**	**E:276854.5 N:186589.5**	**3** of **5**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
18.10-18.48	10	SPT	2,5/14,25,11 for 75mm			Very stiff dark grey silty CLAY. (TIDAL FLAT DEPOSITS) *(stratum copied from 17.00m from previous sheet)*	19.00	
19.65-20.03	11	SPT	5,9/13,17,23 for 75mm			Very stiff brown fibrous PEAT with a moderate organic odour. (TIDAL FLAT DEPOSITS)	(1.00) 20.00	
23.50-24.00	31	B				Firm dark grey organic slightly gravelly silty CLAY and locally clayey SILT with a strong organic odour. Gravel is subangular to subrounded fine to coarse fragments of petrified wood. (TIDAL FLAT DEPOSITS)	(5.46)	
24.00-24.45	32	U	24 blows 22% recovery					
24.45-24.60	33	D						
25.00-25.50	34	B				. . . cobble of petrified wood recovered at approximately 23m bgl.		
25.50-25.95	4	SPT	N=4				25.46	
25.50-25.95	35	D				Very soft dark grey slightly sandy silty CLAY with a moderate organic odour. Sand is fine. (TIDAL FLAT DEPOSITS)		
26.50-27.00	36	B						

Boring Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress		
From	To	Duration (hh:mm)

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Cable Percussion	**Dando 2500**	**CJA**	**Jagan Raj**	JB AGS

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH329**

Contract Ref:	Start: **21.06.24** End: **04.07.24**	Ground Level:	National Grid Co-ordinate:	Sheet:
315531		**17.37**	**E:276854.5 N:186589.5**	**4** of **5**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
27.00-27.45	37	D				Very soft dark grey slightly sandy silty CLAY with a moderate organic odour. Sand is fine. (TIDAL FLAT DEPOSITS) *(stratum copied from 25.46m from previous sheet)*	(4.54)	
28.00-28.50	38	B						
28.50-28.95	5	SPT	N=14			. . . Becoming firm at 28.5mbgl		
28.50-28.95	39	D						
29.50-30.20	40	B					30.00	
30.20-30.65	41	U	30 blows 22% recovery			Dark grey gravelly CLAY. Gravel is subangular to subrounded fine to coarse mudstone and siltstone. (Weathered South Wales Middle Coal Measures)		
31.00-31.50	42	B						
31.50-31.95	43	D						
32.50-33.00	44	B						
33.00-33.45	7	SPT	N=30			. . . Becoming stiff at 33.0mbgl.	(6.40)	
33.00-33.45	45	D						
34.00-34.50	46	B						
34.50-34.95	1	SPT	N=36					
34.50-34.95	47	D						
35.50-36.10	48	B						

Boring Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress		
From	To	Duration (hh:mm)

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Cable Percussion	**Dando 2500**	**CJA**	**Jagan Raj**	JB AGS

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH329**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**21.06.24** End: **04.07.24**	**17.37**	**E:276854.5 N:186589.5**	**5** of **5**

Depth (m)	Samples & Testing: No	Type	Results	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
36.10-36.55	2	SPT	N=43			. . . Becoming very stiff at 36.10mbgl	36.40	
36.10-36.55	49	D						
36.40-36.90	50	B				MUDSTONE. Recovered as dark grey subangular to subrounded fine to coarse GRAVEL of mudstone. (SOUTH WALES COAL MEASURES)	(1.37)	
37.10-37.50	51	B						
37.50-37.77	3	SPT(c)	14,11/26,24 for 70mm				37.77	

Boring Progress and Water Observations						Chiselling / Slow Progress			General Remarks
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)	

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Cable Percussion	**Dando 2500**	**CJA**	**Jagan Raj**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH330**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**15.08.24** End: **27.08.24**	**6.34**	**E:277475.6 N:186815.7**	**1** of **4**

Depth (m)	Samples & Testing: No	Type	Results	Mechanical Log: TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
0.60-0.80	1	B								MADE GROUND: Grey subangular to subrounded GRAVELS onto dark blackish brown slightly sandy clayey GRAVEL. Sand is fine to coarse. Gravel is fine to coarse angular to subangular of mixed lithologies including slag, brick, wood, concrete.		
0.60-0.70	1	ES								. . . Compact concrete, brick and slag	(1.70)	
										. . . Medium cobble content. Cobbles are angular to subangular of slag, brick, concrete mudstone sandstone.		
										. . . Frequent buried timber	1.70	
										MADE GROUND: Medium dense yellowish brown slightly gravelly fine to medium SAND. Gravel is fine to coarse subangular to subrounded of sandstone.		
										. . . Compact concrete and slag		
3.00-3.45	7	SPT(c)	N=19								(2.80)	
3.50-4.00	2	B										
											4.50	
4.50-5.00	4	B								MADE GROUND: Soft dark grey gravelly sandy CLAY with rare pockets of peat. Sand is fine to coarse. Gravel is subangular to subrounded of mixed lithologies including mudstone sandstone and occasional slag brick.		
4.50-4.95	8	SPT(c)	N=8								(1.00)	
5.00-5.45	5	U										
											5.50	
5.45-5.95	6	D								MADE GROUND: Medium dense grey sandy clayey GRAVELS and COBBLES. Gravel is subangular to subrounded fine to coarse. Cobbles are angular to subangular of mixed lithologies including brick and sandstone.		
5.50-6.00	7	B									(1.00)	
6.00-6.45	1	SPT(c)	N=24									
											6.50	
6.60-7.00	9	B								Grey silty fine to coarse SAND. (TIDAL FLAT DEPOSITS)	(0.50)	
											7.00	
7.50-7.95	10	U	14 blows							Soft grey slightly sandy silty CLAY. Sand is fine to medium. (TIDAL FLAT DEPOSITS)		
7.95-8.00	11	D									(3.80)	

Boring Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress		
From	To	Duration (hh:mm)

General Remarks

1. Position scanned with a CAT, Genny and GPR prior to excavation.
2. DEFAULT BH ONLY - Inspection pit hand dug to X.XXm depth.
3. DEFAULT - Groundwater encountered at XX.XXm depth.

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Cable Percussion + Rotary open hole	**Dando 2000 + Comacchio GEO 205**	**CJA**	**Adam Livesey**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH330**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**15.08.24** End: **27.08.24**	**6.34**	**E:277475.6 N:186815.7**	**2** of **4**

Depth (m)	Samples & Testing: No	Type	Results	Mechanical Log: TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
9.00-9.45	2	SPT	N=4							Soft grey slightly sandy silty CLAY. Sand is fine to medium. (TIDAL FLAT DEPOSITS) *(stratum copied from 7.00m from previous sheet)*		
9.00-9.45	12	D										
9.50-10.00	13	B										
10.50-10.95	14	U	16 blows								10.80	
10.95-11.00	15	D								Brown fibrous PEAT. Slight organic odour. (TIDAL FLAT DEPOSITS)		
11.50-12.00	16	B									(2.00)	
12.00-12.45	3	SPT	N=16									
12.00-12.45	17	D									12.80	
13.00-13.50	18	B								Blackish grey slightly gravelly clayey SILT. Gravel is subangular to subrounded of sandstone. (TIDAL FLAT DEPOSITS)	(0.70)	
13.50-13.95	4	SPT(c)	N=19								13.50	
13.50-14.00	20	B								Recovered as dark grey gravelly CLAY and blackish brown fibrous PEAT. Gravel is subrounded to rounded fine to coarse. Strong organic odour. (TIDAL FLAT DEPOSITS)	(0.50)	
14.50-15.00	21	B								Soft to firm greyish brown gravelly silty CLAY with low cobble content. Gravel is subangular to rounded fine to coarse of mixed lithologies including mudstone, siltstone. Cobbles are subangular to subrounded of sandstone. (Boulder clay)	14.00	
15.00-15.45	5	SPT(c)	N=31									
15.50-16.00	23	B										
16.50-16.95	7	SPT(c)	N=17									
17.00-17.50	25	B										

Boring Progress and Water Observations

Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress

From	To	Duration (hh:mm)

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Cable Percussion + Rotary open hole	**Dando 2000 + Comacchio GEO 205**	**CJA**	**Adam Livesey**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH330**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**15.08.24** End: **27.08.24**	**6.34**	**E:277475.6 N:186815.7**	**3** of **4**

Depth (m)	Samples & Testing: No	Type	Results	Mechanical Log: TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
18.00-18.45	9	SPT(c)	N=9							Soft to firm greyish brown gravelly silty CLAY with low cobble content. Gravel is subangular to rounded fine to coarse of mixed lithologies including mudstone, siltstone. Cobbles are subangular to subrounded of sandstone. (Boulder clay)	(9.50)	
19.00-19.50	27	B								*(stratum copied from 14.00m from previous sheet)*		
										. . . Gravels becoming rounded to subrounded		
19.50-19.95	10	SPT(c)	N=50							. . . Dense rounded cobbles		
20.50-21.00	29	B										
21.00-21.45	11	SPT(c)	N=56							. . . Clay becomes slightly gravelly and slightly sandy. Sand is fine to coarse. Gravel is fine to medium subangular to rounded.		
22.00-22.50	31	B										
22.50-22.95	12	SPT(c)	N=54								23.50	
23.50-24.00	33	B								Recovered as grey brown firm to stiff slightly gravelly rounded CLAY and rounded COBBLES. Gravel is subangular to subrounded fine to course of mixed lithologies including mudstone and sandstone. (Weathered South Wales Middle Coal Measures Formation).	(1.70)	
24.00-24.45	13	SPT(c)	N=38								25.20	
25.20-25.50	35	B								Coal (rock head)	(0.80)	
25.50-25.95	14	SPT(c)	N=190								26.00	
										SILTSTONE (Drillers description)		

Boring Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress		
From	To	Duration (hh:mm)

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Cable Percussion + Rotary open hole	**Dando 2000 + Comacchio GEO 205**	**CJA**	**Adam Livesey**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH330**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**15.08.24** End: **27.08.24**	**6.34**	**E:277475.6 N:186815.7**	**4** of **4**

Depth (m)	Samples & Testing: No	Type	Results	Mechanical Log: TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
										SILTSTONE (Drillers description) *(stratum copied from 26.00m from previous sheet)*	(9.00)	
										Borehole terminated at 35.0m bgl.	35.00	

Boring Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress		
From	To	Duration (hh:mm)

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Cable Percussion + Rotary open hole	**Dando 2000 + Comacchio GEO 205**	**CJA**	**Adam Livesey**	

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FINAL

BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH331**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**04.07.24** End: **12.07.24**	**7.54**	**E:277459.3 N:186966.2**	**1** of **4**

Depth (m)	Samples & Testing: No	Type	Results	Mechanical Log: TCR (%)	SCR (%)	RQD (%)	If (mm)	Flush Returns & Details	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
0.40	ES1	ES									MADE GROUND. Grey sandy angular fine to coarse GRAVEL of various lithologies including slag and metal. Sand is fine to coarse.	0.20	
0.40		PID	0.0ppm								MADE GROUND. Dark brown sandy angular to subrounded fine to coarse GRAVEL of various lithologies including slag, mudstone and sandstone. . . . Becomes cobbly/boulders at 0.60m bgl.	(1.60)	
												1.80	
2.00	ES2	ES									MADE GROUND: yellowish brown slightly gravelly fine to coarse SAND. Gravel is angular fine to coarse of sandstone.	(1.40)	
2.00		PID	0.0ppm										
2.60-3.00	B1	B											
3.00-3.45	1	SPT	N=4									3.20	
3.20-3.80	B2	B									MADE GROUND: Soft brown sandy silty CLAY. Sand is fine to coarse.	(0.60)	
3.20	ES3	ES											
3.20		PID	0.0ppm									3.80	
4.00-4.25	2	SPT	3,5/16,34 for 25mm							1	MADE GROUND: Dense greyish brown fine to coarse SAND.	4.20	
4.20-4.70	B3	B									MADE GROUND. Grey sandy angular fine to coarse GRAVEL of slag and concrete. Sand is fine to coarse.	(2.10)	
5.00-5.45	3	SPT(c)	N=14										
5.50-6.00	B4	B											
6.00-6.45	4	SPT(c)	N=3									6.30	
6.40-7.00	B5	B									Very soft greyish brown mottled black slightly sandy silty CLAY. Sand is fine to medium. Frequent rootlets and fragments of organic matter. Slight organic odour. (TIDAL FLAT DEPOSITS)	(1.30)	
6.40	ES4	ES											
6.40		PID	0.0ppm									7.60	
7.50-7.95	U1	U	18 blows 100% recovery								Medium dense brownish grey fine to medium SAND. (TIDAL FLAT DEPOSITS)		
8.50	ES5	ES											
8.50		PID	0.0ppm										

Boring Progress and Water Observations

Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth
08/07/24	08:00	4.72	5.15	N/R	3.94
08/07/24	17:00	12.55	11.25	N/R	6.74
09/07/24	08:45	11.88	11.25	N/R	3.95
09/07/24	17:00	16.95	16.50	N/R	8.63
10/07/24	08:45	16.41	16.30	N/R	5.10
10/07/24	17:00	25.00	25.00	N/R	8.78
11/07/24	08:45	24.98	25.00	N/R	5.33
11/07/24	11:45	26.05	25.65	N/R	11.54

Chiselling / Slow Progress

From	To	Duration (hh:mm)
4.30	4.60	00:45
24.60	24.90	00:45
25.40	25.70	00:45

General Remarks

1. Position scanned with a CAT, Genny and GPR prior to excavation.
2. Inspection pit machine dug to 2.50m depth. 300mm diameter pipe installed prior to backfilling to allow cable percussive drilling to commence.nb
3. Groundwater encountered at 4.0m depth.

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Cable Percussion + Rotary open hole	**Dando 4000 + Fraste**	**CJA**	**Kieran Bancroft**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH331**

Contract Ref:	Start: **04.07.24** End: **12.07.24**	Ground Level:	National Grid Co-ordinate:	Sheet:
315531		**7.54**	**E:277459.3 N:186966.2**	**2** of **4**

Depth (m)	Samples & Testing: No	Type	Results	Mechanical Log: TCR (%)	SCR (%)	RQD (%)	If (mm)	Flush Returns & Details	Backfill & Instru-mentation	Water	Description of Strata	Depth (Thick ness)	Material Graphic Legend
9.00-9.45	5	SPT	N=11								Medium dense brownish grey fine to medium SAND. (TIDAL FLAT DEPOSITS) *(stratum copied from 7.60m from* previous sheet)	(3.60)	
10.00-10.50	B6	B											
10.50-10.95	6	SPT	N=25									11.20	
11.20-12.00	B7	B									Soft greyish brown sandy organic CLAY. Sand is fine to coarse. Frequent angular fragments of degraded organic matter. Strong organic odour. (TIDAL FLAT DEPOSITS)		
11.20	ES6	ES											
11.20		PID	0.2ppm									(1.50)	
12.00-12.45	U2	U	30 blows 100% recovery										
12.45-12.55	D3	D										12.70	
12.80-13.50	B8	B									Very soft bluish grey occasionally mottled dark brown slightly sandy silty CLAY. Sand is fine. Occasional amorphous organic matter. Slight organic odour. (TIDAL FLAT DEPOSITS)		
13.50-13.95	7	SPT	N=1										
14.50-15.00	B9	B										(3.60)	
15.00-15.45	U3	U	100% recovery										
16.30-16.50	B10	B										16.30	
16.50-16.95	8	SPT	N=39								Stiff brownish grey slightly sandy gravelly silty CLAY. Sand is fine to medium. Gravel is angular to subrounded fine to coarse of sandstone and mudstone/siltstone. (Weathered South Wales Middle Coal Measures Formation)	(1.20)	
17.50-18.00	B11	B										17.50	
											Description on next sheet		

Boring Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress		
From	To	Duration (hh:mm)

General Remarks

4. Rotary openhole drilling commenced at 25.70m bgl.
5. Upon completion gas/groundwater monitoring pipe was installed to 25m depth. Response zone between 7.0m and 25.0m depth.

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Cable Percussion + Rotary open hole	**Dando 4000 + Fraste**	**CJA**	**Kieran Bancroft**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH331**

Contract Ref:	Start: **04.07.24** End: **12.07.24**	Ground Level:	National Grid Co-ordinate:	Sheet:
315531		**7.54**	**E:277459.3 N:186966.2**	**3** of **4**

Depth (m)	Samples & Testing: No	Type	Results	Mechanical Log: TCR (%)	SCR (%)	RQD (%)	If (mm)	Flush Returns & Details	Backfill & Instru-mentation	Water	Description of Strata	Depth (Thick ness)	Material Graphic Legend
18.00-18.45	9	SPT(c)	N=45								Dense brownish grey sandy silty clayey angular to subrounded fine to coarse GRAVEL of sandstone and mudstone/siltstone. (Weathered South Wales Middle Coal Measures Formation) *(stratum copied from 17.50m from* previous sheet)	(2.10)	
19.00-19.50	B12	B										19.60	
19.50-19.95	10	SPT(c)	N=6								Loose greyish brown clayey fine to coarse SAND. (Weathered South Wales Middle Coal Measures Formation)		
19.60-20.00	B13	B											
20.00-21.00	B14	B										(3.80)	
22.00-22.50	B15	B									. . . Becomes medium dense fine at 22.5m bgl		
22.50-22.95	12	SPT	N=10									23.40	
23.40-24.00	B16	B									Very stiff brownish grey greyish brown slightly sandy gravelly silty CLAY. Sand is fine to coarse. Gravel is subangular to rounded fine to coarse of sandstone. Occasional subrounded cobbles of sandstone. (Weathered South Wales Middle Coal Measures Formation)		
24.00-24.45	13	SPT(c)	N=48									(1.80)	
25.00-25.40	B17	B										25.20	
25.40-25.70	B18	B									Very dense brownish grey slightly sandy clayey angular to subrounded fine to coarse GRAVEL of mudstone/siltstone. (Weathered South Wales Middle Coal Measures Formation)	(0.50)	
25.50-25.88	14	SPT(c)	8,13/26,41,33 for 75mm									25.70	
											Grey MUDSTONE (Drillers description) (SOUTH WALES COAL MEASURES)		

Boring Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

Chiselling / Slow Progress		
From	To	Duration (hh:mm)

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Cable Percussion + Rotary open hole	**Dando 4000 + Fraste**	**CJA**	**Kieran Bancroft**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
EAF Meltshop Project	**TATA Steel**	**BH331**

Contract Ref:	Start: **04.07.24** End: **12.07.24**	Ground Level:	National Grid Co-ordinate:	Sheet:
315531		**7.54**	**E:277459.3 N:186966.2**	**4** of **4**

Depth (m)	Samples & Testing: No	Type	Results	Mechanical Log: TCR (%)	SCR (%)	RQD (%)	If (mm)	Flush Returns & Details	Backfill & Instru-mentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
27.00-27.04	15	SPT(c)	NP					100% return Air+Mist (Brownish grey)			Grey MUDSTONE (Drillers description) (SOUTH WALES COAL MEASURES) *(stratum copied from 25.70m from* previous sheet)	(4.33)	
30.00-30.03	16	SPT(c)	NP								Borehole terminated at 30.0m bgl.	30.03	

Boring Progress and Water Observations						Chiselling / Slow Progress			General Remarks
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)	

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Cable Percussion + Rotary open hole	**Dando 4000 + Fraste**	**CJA**	**Kieran Bancroft**	

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TRIAL PIT LOG

Contract:	Client:	Trial Pit:
EAF Meltshop Project	**TATA Steel**	**TP301**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**05.08.24** End: **05.08.24**	**---**	**E:276790.0 N:186458.0**	**1** of **1**

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.00-0.80	1	B				MADE GROUND: Dark grey brown clayey sandy GRAVEL of angular to subangular fine to coarse slag, rare metal and wood with moderate cobble content. Sand is fine to coarse. Cobbles are angular to subangular slag.	(0.80)	
0.50	1	ES				. . . Mottled dark red brown.	0.80	
						CONCRETE. Recovered as angular to subangular cobbles and rebar (3cm).	(0.50)	
							1.30	
						Layer of compressed slag. Recovered as angular cobbles.	1.50	
1.50	2	ES				MADE GROUND: Dark grey clayey gravelly fine to coarse SAND with moderate ash content. Gravel is subangular to subrounded fine to coarse coal.	(1.60)	
2.50	3	ES					3.10	
						Terminated at 3.10mbgl.		

General Remarks

1. Position scanned with a CAT, Genny and GPR prior to excavation.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**13 Ton Tracked Excavator**	**Jagan Raj**	JB

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TRIAL PIT LOG

Contract:	Client:	Trial Pit:
EAF Meltshop Project	**TATA Steel**	**TP302**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**02.08.24** End: **02.08.24**	**16.72**	**E:276848.7 N:186497.8**	**1** of **1**

Samples and In-situ Tests				Water	Backfill & Instru-mentation	Description of Strata	Depth (Thick ness)	Material Graphic Legend
Depth	No	Type	Results					
0.50	1	ES				MADE GROUND: Dark grey brown clayey GRAVEL of angular to subangular fine to coarse slag.	(2.00)	
							2.00	
2.50	2	ES				MADE GROUND: Dark grey sandy GRAVEL of angular to subrounded fine to coarse slag. Sand is coarse.	(1.10)	
							3.10	
						Terminated at 3.10mbgl.		

General Remarks

1. Position scanned with a CAT, Genny and GPR prior to excavation.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**13 Ton Tracked Excavator**	**Jagan Raj**	JB

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TRIAL PIT LOG

Contract:	Client:	Trial Pit:
EAF Meltshop Project	**TATA Steel**	**TP303**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**02.08.24** End: **02.08.24**	**16.85**	**E:276835.0 N:186517.6**	**1** of **1**

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
						MADE GROUND: Dark grey brown clayey fine to coarse SAND and angular to subangular fine to coarse GRAVEL of slag with moderate cobble content. Cobbles are angular to subangular slag.		
0.50	1	ES						
						. . . Higher cobble content and less dense below 1m		
1.50-2.50	1	B					(3.00)	
1.50	2	ES						
2.50	3	ES						
							3.00	
						Terminated at 3.00mbgl.		

General Remarks

1. Position scanned with a CAT, Genny and GPR prior to excavation.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**13 Ton Tracked Excavator**	**Jagan Raj**	JB

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TRIAL PIT LOG

Contract:	Client:	Trial Pit:
EAF Meltshop Project	**TATA Steel**	**TP305**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**05.08.24**	**---**	**E:277041.0 N:186760.0**	**1** of **1**
	End: **05.08.24**			

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
						MADE GROUND: Brown slightly gravelly slightly sandy CLAY. Gravel is subangular to subrounded fine to coarse slag.	(0.30) 0.30	
0.80	1	ES				MADE GROUND: Brown fine to coarse SAND and subangular to subrounded fine to coarse GRAVEL of slag and clinker. Rare pockets of yellow brown extremely weak poorly cemented sandstone.	(2.70) 3.00	
2.00	2	ES						
2.70	3	ES						
						Terminated at 3.00mbgl.		

General Remarks

1. Position scanned with a CAT, Genny and GPR prior to excavation.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**13 Ton Tracked Excavator**	**Jagan Raj**	JB

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TRIAL PIT LOG

Contract:	Client:	Trial Pit:
EAF Meltshop Project	**TATA Steel**	**TP306**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**23.08.24**	**---**	**E:277380.0 N:186493.0**	**1** of **1**
	End: **23.08.24**			

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
						CONCRETE.	0.20	
0.50 0.50	ES1	ES PID	0.0ppm	▼1		MADE GROUND. Dark greyish brown sandy silty angular fine to coarse GRAVEL of various lithologies including sandstone, slag and concrete.	(1.80)	
						Trial pit terminated at 2.0m bgl due to significant ground water.	2.00	

General Remarks

1. Position scanned with a CAT, Genny and GPR prior to excavation.
2. Groundwater encountered at 1.80m depth.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**13 Ton Tracked Excavator**	**Kieran Bancroft**	

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TRIAL PIT LOG

Contract:	Client:	Trial Pit:
EAF Meltshop Project	**TATA Steel**	**TP307**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**23.08.24** End: **23.08.24**	**---**	**E:277489.0 N:186382.0**	**1** of **1**

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
						Grass over brown slightly sandy slightly gravelly clayey silt TOPSOIL. Sand is fine to coarse. Gravel is angular fine to coarse of sandstone and sandstone. Frequent rootlets up to 1mm diameter.	0.25	
						MADE GROUND. Dark grey sandy angular fine to coarse GRAVEL of various lithologies including red brick and slag. Sand is fine to coarse. Very compact.	0.50	
						ASPHALT.	0.60	
						MADE GROUND. Dark brown sandy angular fine to coarse GRAVEL of various lithologies including red brick, slag and concrete. Sand is fine to coarse. . . . Becomes very compacted at 1.0m bgl. . . . Becomes reddish brown and predominantly red brick at 1.40m bgl.	(1.10) 1.70	
				1		MADE GROUND. Brown slightly gravelly fine to coarse SAND. Gravel is angular fine to coarse of red brick and slag.	(0.80) 2.50	
						Trial pit terminated at 2.50m bgl due to significant ground water.		

General Remarks

1. Position scanned with a CAT, Genny and GPR prior to excavation.
2. Groundwater encountered at 2.30m depth.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**13 Ton Tracked Excavator**	**Kieran Bancroft**	

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TRIAL PIT LOG

Contract:	Client:	Trial Pit:
EAF Meltshop Project	**TATA Steel**	**TP308**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	End: **25.07.24**	**7.33**	**E:277447.8 N:186401.2**	**1** of **1**

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
						MADE GROUND: Dark grey GRAVEL of angular to subangular fine to coarse roadstone. (Hardstanding)	0.10	
						MADE GROUND: Grey GRAVEL of angular to subangular roadstone.	(0.50)	
							0.60	
0.60-1.00	1	B				MADE GROUND: Dark grey clayey fine to coarse SAND and angular to subangular GRAVEL of slag. Moderate ash content.		
0.60	1	ES						
0.60		PID	0.0ppm					
1.00		PID	0.0ppm			. . . Moderate cobble content. Cobbles are angular to subangular slag.	(0.80)	
1.20-1.40	2	B						
1.20	2	ES		1			1.40	
						Terminated at 1.40mbgl due to groundwater.		

General Remarks

1. Position scanned with a CAT, Genny and GPR prior to excavation.
2. Groundwater encountered at 1.4m depth.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**13 Ton Tracked Excavator**	**Jagan Raj**	JB

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TRIAL PIT LOG

Contract:	Client:	Trial Pit:
EAF Meltshop Project	**TATA Steel**	**TP309**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**26.07.24** End: **26.07.24**	**7.22**	**E:277454.3 N:186377.3**	**1** of **1**

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
						MADE GROUND: Grey GRAVEL of angular to subangular fine to coarse roadstone. (Hardstanding).	0.10	
0.20-0.50	1	B				MADE GROUND: Dark grey sandy GRAVEL of angular to subangular fine to coarse slag, roadstone, metal and rare brick.	(0.50)	
0.40	1	ES					0.60	
						MADE GROUND: Brown clayey GRAVEL and COBBLES of slag.	(0.40)	
1.00	2	ES					1.00	
1.00-1.50	2	B				MADE GROUND: Dark brown GRAVEL of very angular to angular fine to coarse slate and siltstone with occasional pockets of clay (30cm) and occasional angular cobbles of siltstone.	(1.50)	
2.00	3	ES		1 1				
2.00-2.50	3	B						
						Terminated at 2.50mbgl due to pit instability.	2.50	

General Remarks

1. Position scanned with a CAT, Genny and GPR prior to excavation.
2. Groundwater encountered at 2.1m depth.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**13 Ton Tracked Excavator**	**Jagan Raj**	JB

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TRIAL PIT LOG

Contract:	Client:	Trial Pit:
EAF Meltshop Project	**TATA Steel**	**TP310**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**26.07.24**	**---**	**E:277439.0 N:186372.0**	**1** of **1**
	End: **26.07.24**			

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.70-1.50 0.70	1 1	B ES				MADE GROUND: Rounded to subrounded gravel onto dark brown slightly sandy clayey fine to coarse GRAVEL. Sand is fine to medium. Gravel is angular to subangular of mixed lithologies including brick, charcoal, plastic . . . Band of yellow brown fine to medium sand.	(1.50) 1.50	
						MADE GROUND: Dark brown silty GRAVEL. Gravel is angular to subangular fine to coarse of slag and siltstone.	(0.50) 2.00	
2.50-3.40 2.50	2 2	B ES				Dark brown silty GRAVEL of very angular to angular fine to coarse slate and siltstone with occasional pockets of firm clay.	(1.40) 3.40	
						Terminated at 3.40mbgl.		

General Remarks

1. Position scanned with a CAT, Genny and GPR prior to excavation.
2. Groundwater encountered at 2.0m depth.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**13 Ton Tracked Excavator**	**Jagan Raj**	JB

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TRIAL PIT LOG

Contract:	Client:	Trial Pit:
EAF Meltshop Project	**TATA Steel**	**TP311**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**05.08.24**	**---**	**E:277413.0 N:186364.0**	**1** of **1**
	End: **05.08.24**			

Samples and In-situ Tests				Water	Backfill & Instru-mentation	Description of Strata	Depth (Thick ness)	Material Graphic Legend
Depth	No	Type	Results					
						MADE GROUND: Concrete onto greyish dark brown sandy GRAVEL. Sand is fine to coarse. Gravel is fine to coarse angular to subangular of mixed lithologies including slag mudstone and concrete.	0.20	
0.40-0.60 0.40-0.50	1 1	B ES				MADE GROUND: Recovered as dark greyish brown sandy angular to subangular GRAVELS and COBBLES. Sand is fine to coarse. Gravel is fine to coarse of mixed lithologies including brick and clinker. Cobbles are subangular to angular of mudstone, slag, metal and brick.	(0.60) 0.80	
						MADE GROUND: Dark brown gravelly clayey fine to coarse SAND. Gravel is angular to subangular of brick, mudstone and slag. . . . Concrete boulders	(0.60) 1.40	
						MADE GROUND: Yellowish brown fine to medium SAND	1.60	
						MADE GROUND: Dark brown gravelly clayey fine to coarse SAND with low cobble content. Gravel is angular to subangular of brick, mudstone rebar and slag. Cobbles are subangular to angular of slag concrete and brick.	(0.40) 2.00	
				≈		MADE GROUND. Black ashy sandy GRAVEL. Sand is fine to medium. Gravel is angular to subangular fine to coarse of mixed lithologies including coal, slag, shale and slate.	(0.60) 2.60	
2.50-2.60 2.50-2.60	2 2	B ES				Terminated at 2.60mbgl.		

General Remarks

1. Position scanned with a CAT, Genny and GPR prior to excavation.
4. Tp moved south west due to concrete obstruction, suspected old building foundation

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**13 Ton Tracked Excavator**	**Adam Livesey**	JB

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TRIAL PIT LOG

Contract:	Client:	Trial Pit:
EAF Meltshop Project	**TATA Steel**	**TP312**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**05.08.24** End: **05.08.24**	**---**	**E:277449.0 N:186346.0**	**1** of **1**

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.20-0.30	1	B				MADE GROUND: Greyish dark brown sandy GRAVEL with rare wood. Sand is fine to coarse. Gravel is fine to coarse subangular to subrounded of mixed lithologies including concrete slag siltstone	(0.40)	
0.20-0.30	1	ES					0.40	
						MADE GROUND: Dark grey sandy GRAVEL of angular to subangular fine to coarse slag, metal, coal and occassional brick. Sand is fine to coarse. . . . Concrete slab . . . Rare cobbles of slag concrete slate	(2.10)	
1.50-1.60	1	D				. . . Slate and siltstone		
2.40-2.50	2	B					2.50	
2.40-2.50	2	ES				Terminated at 2.50mbgl.		

General Remarks

1. Position scanned with a CAT, Genny and GPR prior to excavation.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**13 Ton Tracked Excavator**	**Adam Livesey**	JB

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TRIAL PIT LOG

Contract:	Client:	Trial Pit:
EAF Meltshop Project	**TATA Steel**	**TP313**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**08.08.24** End: **08.08.24**	**---**	**E:277318.0 N:186408.0**	**1** of **1**

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
						MADE GROUND: Dark brown sandy gravelly CLAY with frequent rootlets. Gravel is subangular to subrounded fine to coarse slag. (Topsoil)	0.10	
0.30	1	ES				MADE GROUND: Grey brown sandy GRAVEL of angular to subangular fine to coarse slag. Sand is fine to medium.	(0.40)	
							0.50	
						Yellow brown clayey fine to medium SAND.		
1.20	2	ES					(1.70)	
2.00	3	ES		≈				
							2.20	
						Terminated at 2.2m due to pit instability.		

General Remarks

1. Position scanned with a CAT, Genny and GPR prior to excavation.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**13 Ton Tracked Excavator**	**Jagan Raj**	

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TRIAL PIT LOG

Contract:		Client:		Trial Pit:
EAF Meltshop Project		**TATA Steel**		**TP314**
Contract Ref:	Start: **09.08.24**	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	End: **09.08.24**	**---**	**E:277436.0 N:186198.0**	**1** of **1**

Samples and In-situ Tests				Water	Backfill & Instru-mentation	Description of Strata	Depth (Thick ness)	Material Graphic Legend
Depth	No	Type	Results					
0.50	1	ES		1 1		MADE GROUND: Dark grey sandy GRAVEL of angular to subangular fine to coarse slag with moderate cobble content. Sand is fine to coarse. Cobbles are angular slag. . . . Concrete structure on western face of excavation to base of pit. . . . Cobble of old metal pipe 10cm diameter.	(1.90)	
1.70	2	ES				. . . Becoming grey below 1.5m bgl.	1.90	
						Groundwater encountered at 1.1m bgl. Terminated due to unknown obstruction at 1.9m bgl and backfilled with arisings on completion.		

General Remarks

1. Position scanned with a CAT, Genny and GPR prior to excavation.
2. Groundwater encountered at 1.1m depth.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**13 Ton Tracked Excavator**	**Jagan Raj**	

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TRIAL PIT LOG

Contract:	Client:	Trial Pit:
EAF Meltshop Project	**TATA Steel**	**TP317**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**12.09.24** End: **12.09.24**	**---**	**E:277657.0 N:186218.0**	**1** of **1**

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
						MADE GROUND: Greyish brown sandy angular fine to coarse GRAVEL of Slag.	(0.60) 0.60	
						MADE GROUND: Grey coarse GRAVEL of limestone (ballast)	(0.60) 1.20	
1.70-1.80	1	B		≈		MADE GROUND: Dark grey sandy angular fine to coarse GRAVEL and COBBLES of slag, concrete, limestone, brick. Low to medium angular boulder content of slag (upto 0.5x0.4x0.2m).	(1.40) 2.60	
						Terminated at 2.6mbgl		

General Remarks

1. Position scanned with a CAT, Genny and GPR prior to excavation.
2. Groundwater encountered at 2.40m depth.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**13 Ton Tracked Excavator**	**Rachael Lockyer**	

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TRIAL PIT LOG

Contract:		Client:		Trial Pit:
EAF Meltshop Project		**TATA Steel**		**TP318**
Contract Ref:	Start: **11.09.24**	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	End: **11.09.24**	**---**	**E:277771.0 N:186419.0**	**1** of **1**

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
						MADE GROUND: Grey brown sandy angular fine to coarse GRAVEL of slag. Low angular cobble content of slag and metal. Rare wood fragments.	(1.30)	
1.00-1.10	1	B				. . . Thick piece of steel at 1.2mbgl in north end	1.30	
						Terminated at 1.3mbgl		

General Remarks

1. Position scanned with a CAT, Genny and GPR prior to excavation.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**13 Ton Tracked Excavator**	**Rachael Lockyer**	

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TRIAL PIT LOG

Contract:	Client:	Trial Pit:
EAF Meltshop Project	**TATA Steel**	**TP319**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**11.09.24**	**---**	**E:277796.0 N:186264.0**	**1** of **1**
	End: **11.09.24**			

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.50-0.60	1	B				MADE GROUND. Dark grey very sandy angular fine to coarse GRAVEL. Sand is fine to coarse. Medium angular cobble content of slag, metal and bricks. Low angular boulder content of concrete (upto 0.4mx0.3x0.15m). . . . Becoming brown at 1.00m . . . Reinforced concrete obstructions between 1.20 -2.6mbgl . . . Textile and large scrap metal pipe at 1.5mbgl	(2.60) 2.60	
						Terminated at 2.6mbgl		

General Remarks

1. Position scanned with a CAT, Genny and GPR prior to excavation.
2. Groundwater not encountered.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**13 Ton Tracked Excavator**	**Rachael Lockyer**	

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log TRIAL PIT LOG - NO PLAN - A4P | 315531 PORT TALBOT.GPJ - v10_01.
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TRIAL PIT LOG

Contract:	Client:	Trial Pit:
EAF Meltshop Project	**TATA Steel**	**TP320**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**11.09.24**	**---**	**E:277796.0 N:186264.0**	**1** of **1**
	End: **11.09.24**			

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
						MADE GROUND: Dark grey sandy angular fine to coarse GRAVEL of slag. Sand is fine to coarse. Low angular cobble content of slag and rare brick.	(1.30)	
0.90-1.00	1	B						
1.20-1.30	2	B					1.30	
						MADE GROUND Yellow brown gravelly fine to coarse SAND. Gravel is angular fine to coarse of slag. (Reworked)	1.50	
						Yellow brown fine to coarse SAND. (BLOWN SAND).	(1.50)	
							3.00	
						Terminated at 3.0mbgl		

General Remarks

1. Position scanned with a CAT, Genny and GPR prior to excavation.
2. Groundwater not encountered.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**13 Ton Tracked Excavator**	**Rachael Lockyer**	

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log TRIAL PIT LOG - NO PLAN - A4P | 315531 PORT TALBOT.GPJ - v10_01.
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TRIAL PIT LOG

Contract:	Client:	Trial Pit:
EAF Meltshop Project	**TATA Steel**	**TP323**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**23.08.24** End: **23.08.24**	**---**	**E:277523.0 N:186416.0**	**1** of **1**

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
						MADE GROUND. Grass over brown slightly sandy slightly gravelly clayey silt TOPSOIL. Sand is fine to coarse. Gravel is angular fine to coarse of sandstone and sandstone. Frequent root let's up to 1mm diameter.	0.25	
0.50 0.50	ES1	ES PID	0.0ppm			MADE GROUND. Dark grey sandy angular fine to coarse GRAVEL of various lithologies including red brick and slag. Sand is fine to coarse. Very compact.	(0.55) 0.80	
1.30 1.30	ES2	ES PID	0.0ppm	▼1		MADE GROUND. Dark brown black gravelly clsyey fine to coarse SAND. Gravel is angular fine to coarse of various lithologies including mudstone, red brick and slag.	(1.20) 2.00	
						Trial pit terminated at 2.0m bgl due to significant ground water.		

General Remarks

1. Position scanned with a CAT, Genny and GPR prior to excavation.
2. Groundwater encountered at 1.80m depth.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**13 Ton Tracked Excavator**	**Kieran Bancroft**	

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TRIAL PIT LOG

Contract:	Client:	Trial Pit:
EAF Meltshop Project	**TATA Steel**	**TP324**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**23.08.24** End: **23.08.24**	**---**	**E:277573.0 N:186424.0**	**1** of **1**

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.90 0.90	ES1	ES PID	0.0ppm			MADE GROUND. Dark brown sandy silt angular fine to coarse GRAVEL of various lithologies including limestone, metal and slag. Sand is fine to coarse. . . . Compacted layer of slag at 0.15m bgl.	(1.10) 1.10	
1.60 1.60	ES2	ES PID	0.0ppm	1		MADE GROUND. Dark brown sandy clayey angular fine to coarse GRAVEL of various lithologies including red brick, metal and slag with pockets of pale orangish brown silty clay. Sand is fine to coarse.	(1.10) 2.20	
						Trial pit terminated at 2.20m bgl due to significant ground water.		

General Remarks

1. Position scanned with a CAT, Genny and GPR prior to excavation.
2. Groundwater encountered at 1.80m depth.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**13 Ton Tracked Excavator**	**Kieran Bancroft**	

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TRIAL PIT LOG

Contract:	Client:	Trial Pit:
EAF Meltshop Project	**TATA Steel**	**TP325**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**30.07.24** End: **30.07.24**	**16.35**	**E:277025.0 N:186702.6**	**1** of **1**

Samples and In-situ Tests				Water	Backfill & Instru-mentation	Description of Strata	Depth (Thick ness)	Material Graphic Legend
Depth	No	Type	Results					
0.50	1	ES				MADE GROUND: Grey and brown clayey GRAVEL of angular to subangular fine to coarse slag.	(1.50) 1.50	
2.00	1	B				MADE GROUND: Grey sandy angular to subangular fine to coarse GRAVEL of slag with high cobble content of subangular slag.	(1.20) 2.70	
2.00	2	ES						
2.70-3.30	2	B				MADE GROUND: Dark grey green slightly gravelly CLAY with a strong salty odour. Gravel is subangular to subrounded fine to coarse petrified wood, rare brick, slag and tile.	(0.60) 3.30	
3.00	3	ES						
						Terminated at 3.30mbgl		

General Remarks

1. Position scanned with a CAT, Genny and GPR prior to excavation.
2. Groundwater encountered at 3.3m

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**13 Ton Tracked Excavator**	**Jagan Raj**	JB

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TRIAL PIT LOG

Contract:	Client:	Trial Pit:
EAF Meltshop Project	**TATA Steel**	**TP326**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**30.07.24** End: **30.07.24**	**15.93**	**E:277040.9 N:186673.1**	**1** of **1**

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.00-1.00	1	B				MADE GROUND. Dark brown clayey fine to coarse SAND and subangular to subrounded fine to coarse GRAVEL of slag and metal. Moderate cobble content of subangular slag.	(3.10)	
0.70	1	ES						
0.70-1.00	2	B						
1.70	2	ES						
2.00-2.60	3	B						
3.00	3	ES					3.10	
						Terminated at 3.10mbgl.		

General Remarks

1. Position scanned with a CAT, Genny and GPR prior to excavation.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**13 Ton Tracked Excavator**	**Jagan Raj**	JB

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TRIAL PIT LOG

Contract:	Client:	Trial Pit:
EAF Meltshop Project	**TATA Steel**	**TP327**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**30.07.24**	**---**	**E:277060.0 N:186656.0**	**1** of **1**
	End: **30.07.24**			

Samples and In-situ Tests				Water	Backfill & Instru-mentation	Description of Strata	Depth (Thick ness)	Material Graphic Legend
Depth	No	Type	Results					
0.00-0.70	1	B				MADE GROUND. Brown very gravelly CLAY. Gravel is angular to subangular metal, slag and rare brick.		
0.50	1	ES				. . . Cobbles of scrap metal sheeting on western face.	(2.00)	
1.30	2	ES				. . . Dark brown and slightly gravelly below 1.2m		
1.30-1.50	2	B						
							2.00	
2.50-2.60	3	B				MADE GROUND. Dark grey gravelly fine to coarse SAND. Gravel is subangular to subrounded fine to coarse slag, metal, clinker and brick. Slight ash content. (Fill)		
2.50	3	ES						
2.60-2.70	4	B				. . . Layer of compressed slag.	(1.40)	
							3.40	
3.40	4	ES				Terminated at 3.40mbgl.		

General Remarks

1. Position scanned with a CAT, Genny and GPR prior to excavation.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**13 Ton Tracked Excavator**	**Jagan Raj**	JB

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TRIAL PIT LOG

Contract:	Client:	Trial Pit:
EAF Meltshop Project	**TATA Steel**	**TP331**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**12.09.24** End: **12.09.24**	**---**	**E:277936.0 N:185973.0**	**1** of **1**

Samples and In-situ Tests				Water	Backfill & Instru-mentation	Description of Strata	Depth (Thick ness)	Material Graphic Legend
Depth	No	Type	Results					
						MADE GROUND: Dark grey sandy angular fine to coarse GRAVEL of slag and rare yellow brick. Sand is fine to coarse.	(0.30) 0.30	
						MADE GROUND: Grey angular coarse GRAVEL of limestone and mudstone, rare slag (Reworked ballast)	0.50	
1.00-1.30	1	B				MADE GROUND . Greyish brown gravelly angular COBBLES of slag with sandstone, rare brick and metal objects. Gravels are angular to subangular fine to coarse of slag. Low angular boulder content of sag (upto 0.3x0.3x0.15m)	(0.80) 1.30	
						Yellow brown fine to coarse SAND. (BLOWN SAND).	(1.30) 2.60	
						Terminated at 2.6mbgl		

General Remarks

1. Position scanned with a CAT, Genny and GPR prior to excavation.
2. Groundwater not encountered.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**13 Ton Tracked Excavator**	**Rachael Lockyer**	

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FINAL

TRIAL PIT LOG

Contract:	Client:	Trial Pit:
EAF Meltshop Project	**TATA Steel**	**TP332**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**04.09.24** End: **04.09.24**	**---**	**E:277377.0 N:187068.0**	**1** of **1**

Samples and In-situ Tests				Water	Backfill & Instru-mentation	Description of Strata	Depth (Thick ness)	Material Graphic Legend
Depth	No	Type	Results					
						MADE GROUND: Greyish brown clayey angular to subangular medium to coarse GRAVEL of slag. Hardstanding.	0.10	
						MADE GROUND: Grey clayey angular to subangular fine to coarse GRAVEL and angular COBBLES of slag. . . . Becomes pale grey between 0.25m bgl and 0.50m bgl.	(0.40) 0.50	
0.50	1	ES				MADE GROUND: Grey sandy clayey angular to subangular fine to coarse GRAVEL of slag with moderate cobble content. Cobbles are angular to subangular slag. Sand is fine to coarse. . . . Greyish brown below 0.50m bgl. . . . Occasional angular boulders of slag below 1.0m bgl. . . . Rare angular coarse gravel of scrap metal.	(1.00) 1.50	
1.70	2	ES				MADE GROUND: Greyish brown clayey fine to coarse SAND and angular to subangular fine to coarse GRAVEL of slag. . . . Becoming brown below 2.30m bgl.	(1.20)	
2.60	3	ES					2.70	
						No groundwater encountered. Backfilled with arisings on completion.		

General Remarks

1. Position scanned with a CAT, Genny and GPR prior to excavation.
2. Groundwater not encountered.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**13 Ton Tracked Excavator**	**Jagan Raj**	

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FINAL

TRIAL PIT LOG

Contract:	Client:	Trial Pit:
EAF Meltshop Project	**TATA Steel**	**TP333**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**04.09.24**	**---**	**E:277385.0 N:187031.0**	**1** of **1**
	End: **04.09.24**			

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.10	1	ES				MADE GROUND: Grey angular to subangular medium to coarse GRAVEL of slag. Hardstanding.	0.05	
0.30	2	ES				MADE GROUND: Brownish grey sandy clayey GRAVEL of angular to subangular fine to coarse slag, rare metal and rare brick. Sand is fine to coarse.	0.25	
1.20	3	ES				MADE GROUND: Pale greyish brown slightly sandy clayey GRAVEL and COBBLES. Gravel is angular to subangular fine to coarse slag. Cobbles are angular to subangular slag. . . . Slag is dark grey between 0.40m and 0.60m bgl.	(1.15)	
						Terminated due to unknown concrete obstruction at 1.40m bgl. No groundwater encountered. Backfilled with arisings on completion.	1.40	

General Remarks

1. Position scanned with a CAT, Genny and GPR prior to excavation.
2. No groundwater encountered.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**13 Ton Tracked Excavator**	**Jagan Raj**	

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TRIAL PIT LOG

Contract:	Client:	Trial Pit:
EAF Meltshop Project	**TATA Steel**	**TP334**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**04.09.24** End: **04.09.24**	**---**	**E:277423.0 N:187008.0**	**1** of **1**

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
						MADE GROUND: Grey angular to subangular medium to coarse GRAVEL of slag. Hardstanding.	0.10	
0.20	1	ES				MADE GROUND: Brown, reddish brown and grey clayey SAND and GRAVEL. Gravel is angular to subangular fine to coarse slag. Sand is fine to coarse. . . . Pale pinkish brown and high cobble content below 0.50m bgl.	(1.00)	
1.00	2	ES					1.10	
						MADE GROUND: Red brickwork foundations. Recovered as red angular COBBLES of brick.	1.20	
						MADE GROUND: CONCRETE. Recovered as angular to subangular coarse GRAVEL and angular COBBLES of concrete and occasional rebar (3cm diameter).	(0.60)	
							1.80	
2.00	3	ES				Yellow clayey fine to medium SAND. (Probable Fill)	(0.90)	
							2.70	
						No groundwater encountered. Backfilled with arisings on completion.		

General Remarks

1. Position scanned with a CAT, Genny and GPR prior to excavation.
2. No groundwater encountered.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**13 Ton Tracked Excavator**	**Jagan Raj**	

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FINAL

TRIAL PIT LOG

Contract:	Client:	Trial Pit:
EAF Meltshop Project	**TATA Steel**	**TP334 (South slab yard)**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**12.09.24**	**---**	**E:277784.0 N:186066.0**	**1** of **1**
	End: **12.09.24**			

Samples and In-situ Tests				Water	Backfill & Instru-mentation	Description of Strata	Depth (Thick ness)	Material Graphic Legend
Depth	No	Type	Results					
						MADE GROUND: Greyish brown sandy angular GRAVELS AND COBBLES of slag with rare brick and mudstone.		
						. . . High angular boulder content of slag (upto 0.4m)		
1.00-1.20	1	B					(2.30)	
2.00-2.10	2	B		≈				
							2.30	
						Terminated at 2.3mbgl		

General Remarks

1. Position scanned with a CAT, Genny and GPR prior to excavation.
2. Groundwater encountered at 2.2m depth.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**13 Ton Tracked Excavator**	**Rachael Lockyer**	

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TRIAL PIT LOG

Contract:	Client:	Trial Pit:
EAF Meltshop Project	**TATA Steel**	**TP335**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**06.09.24** End: **06.09.24**	**---**	**E:277338.0 N:187159.0**	**1** of **1**

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
						MADE GROUND: Tarmacadam Hardstanding.	0.10	
						MADE GROUND: Brown fine to coarse SAND and angular to subangular fine to coarse GRAVEL of red brick, slag, clinker, rebar, tile and concrete. Occasional angular cobbles of slag, concrete and red brick. (Fill Material)		
0.80	1	ES				. . . Pocket of brown clay (15cm) on northern face of excavation.	(1.90)	
1.80	2	ES				. . . Pocket of yellow sand (20cm) on northern face of excavation.	2.00	
						Groundwater encountered at 2.00m bgl. Backfilled with arisings on completion.		

General Remarks

1. Position scanned with a CAT, Genny and GPR prior to excavation.
2. Groundwater encountered at 2.0m depth.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**13 Ton Tracked Excavator**	**Jagan Raj**	

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FINAL

TRIAL PIT LOG

Contract:	Client:	Trial Pit:
EAF Meltshop Project	**TATA Steel**	**TP336**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**06.09.24**	**---**	**E:277364.0 N:187269.0**	**1** of **1**
	End: **06.09.24**			

Samples and In-situ Tests				Water	Backfill & Instru-mentation	Description of Strata	Depth (Thick ness)	Material Graphic Legend
Depth	No	Type	Results					
0.50	1	ES				MADE GROUND: Dark grey to dark grey brown silty fine to coarse SAND and angular to subangular fine to coarse GRAVEL of slag. Occasional angular cobbles of slag. . . . Rebar (3cm diameter) on eastern face of excavation.	(1.30)	
							1.30	
2.00	2	ES				MADE GROUND: Light brown and red sandy angular COBBLES and angular BOULDERS of red brickwork. Sand is fine to coarse. (Brick Fill) . . . Occassional pockets of black glassy low density probable bitumen (20cm) recovered as angular coarse gravel between 1.30m and 2.70m bgl.	(1.40)	
							2.70	
						No groundwater encountered. Backfilled with arisings on completion.		

General Remarks

1. Position scanned with a CAT, Genny and GPR prior to excavation.
2. No groundwater encountered.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**13 Ton Tracked Excavator**	**Jagan Raj**	

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TRIAL PIT LOG

Contract:	Client:	Trial Pit:
EAF Meltshop Project	**TATA Steel**	**TP337**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**08.08.24** End: **08.08.24**	**---**	**E:277294.0 N:186381.0**	**1** of **1**

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.05	1	ES				MADE GROUND: Dark brown organic fibrousCLAY with a strong organic odour. (Topsoil)	0.10	
						MADE GROUND: Greyish brown sandy GRAVEL of angular to subangular fine to coarse slag.	(0.40)	
							0.50	
1.00	2	ES				Yellowish brown clayey fine to medium SAND with rare pockets of black sandy organic clay.	(1.40)	
1.70	3	ES		≈			1.90	
						Terminated due to pit instability.		

General Remarks

1. Position scanned with a CAT, Genny and GPR prior to excavation.
2. Groundwater encountered at 1.8m depth.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**13 Ton Tracked Excavator**	**Jagan Raj**	

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FINAL

TRIAL PIT LOG

Contract:	Client:	Trial Pit:
EAF Meltshop Project	**TATA Steel**	**TP341**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**19.08.24** End: **19.08.24**	**---**	**E:277643.0 N:185816.0**	**1** of **1**

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.10	1	ES				MADE GROUND: Black ashy slightly gravelly fine to coarse SAND. Gravel is angular fine to coarse of brick and slag.	0.25	
0.10		PID	0.0ppm					
						MADE GROUND: Grey angular GRAVELS and COBBLES of slag. Low angular boulder content of slag (upto 0.50m)	(1.75)	
							2.00	
2.30	2	ES		≈		MADE GROUND: Black slightly gravelly silty CLAY. Gravel is angular fine to coarse of slag. Strong hydrocarbon odour. Medium angular cobble content of slag.	(0.80)	
2.30		V	c_u=11					
2.30		V	c_r=5					
2.30		PID	0.1ppm					
2.50		V	c_u=13					
2.50		V	c_r=4					
2.70		V	c_u=13					
2.70		V	c_r=2				2.80	
2.80	3	ES				Terminated at 2.8mbgl		
2.80		PID	0.0ppm					

General Remarks

1. Position scanned with a CAT, Genny and GPR prior to excavation.
2. Groundwater encountered at 2.5m depth.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**13 Ton Tracked Excavator**	**Rachael Lockyer**	

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TRIAL PIT LOG

Contract:	Client:	Trial Pit:
EAF Meltshop Project	**TATA Steel**	**TP342**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	End: **01.08.24**	**17.41**	**E:276932.1 N:186650.9**	**1** of **1**

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
						MADE GROUND: Grey brown clayey fine to coarse SAND and subangular to subrounded fine to coarse GRAVEL of slag.	(0.30)	
							0.30	
0.50	1	ES				MADE GROUND: Dark brown slightly sandy very gravelly CLAY. Gravel is subangular to subrounded fine to coarse slag. Sand is fine to coarse.		
						. . . Layer of compressed slag.		
						. . . Dark grey below 1m		
1.50	2	ES						
						. . . Layer of compressed slag.	(3.00)	
2.50	3	ES						
						. . . Becoming dark grey with depth.		
3.00-3.30	4	ES						
							3.30	
						Terminated at 3.30mbgl.		

General Remarks

1. Position scanned with a CAT, Genny and GPR prior to excavation.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**13 Ton Tracked Excavator**	**Jagan Raj**	JB

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FINAL

TRIAL PIT LOG

Contract:		Client:		Trial Pit:
EAF Meltshop Project		**TATA Steel**		**TP343**
Contract Ref:	Start: **01.08.24**	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	End: **01.08.24**	**17.52**	**E:276993.0 N:186734.8**	**1** of **1**

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.50	1	ES				MADE GROUND: Dark grey brown clayey sandy GRAVEL of subangular to subrounded fine to coarse slag, metal and rare wood. Sand is fine to coarse and occasionally metallic. . . . Brown clayey band. . . . Slow excavation.	(1.00) 1.00	
1.50	2	ES				MADE GROUND: Brown clayey fine to coarse SAND and subangular to subrounded fine to coarse GRAVEL of slag. High cobble content of angular to subangular slag. . . . Slow excavation.	(2.20) 3.20	
2.50	3	ES						
3.00-3.20	4	ES						
						Terminated at 3.20mbgl.		

General Remarks

1. Position scanned with a CAT, Genny and GPR prior to excavation.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**13 Ton Tracked Excavator**	**Jagan Raj**	JB

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log TRIAL PIT LOG - NO PLAN - A4P | 315531 PORT TALBOT.GPJ - v10_01.
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FINAL

TRIAL PIT LOG

Contract:	Client:	Trial Pit:
EAF Meltshop Project	**TATA Steel**	**TP344**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**01.08.24**	**---**	**E:276860.0 N:186631.0**	**1** of **1**
	End: **01.08.24**			

Samples and In-situ Tests				Water	Backfill & Instru-mentation	Description of Strata	Depth (Thick ness)	Material Graphic Legend
Depth	No	Type	Results					
0.50	1	ES				MADE GROUND: Grey brown slightly sandy clayey angular to subangular fine to coarse GRAVEL of slag and rare metal. Sand is fine to coarse. . . . Band of yellow brown SAND. . . . Grey. . . . Dark grey brown below 0.7m . . . Slow excavation below 1m	(2.00)	
1.50	2	ES					2.00	
2.50	3	ES				MADE GROUND: Dark brown clayey fine to coarse SAND and subangular to subrounded fine to coarse GRAVEL of slag. . . . Cobble of angular metal plating (<70cm) recovered at 3m	(1.30)	
							3.30	
						Terminated at 3.30mbgl.		

General Remarks

1. Position scanned with a CAT, Genny and GPR prior to excavation.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**13 Ton Tracked Excavator**	**Jagan Raj**	JB

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FINAL

TRIAL PIT LOG

Contract:	Client:	Trial Pit:
EAF Meltshop Project	**TATA Steel**	**TP345**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**31.07.24** End: **31.07.24**	**17.21**	**E:276855.0 N:186568.1**	**1** of **1**

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
						MADE GROUND: Grey clayey GRAVEL of fine to coarse slag.	(0.40) 0.40	
0.50	1	ES				MADE GROUND: Dark grey brown clayey angular to subangular fine to coarse GRAVEL and angular to subangular COBBLES of slag, and brick. (Brick fill) . . . Two disused red cables on eastern face of excavation. . . . Boulder of subangular slag on southern face of excavation (1m).	(1.20)	
1.50	2	ES					1.60	
						CONCRETE. Recovered as sandy gravelly cobbles with rebar (3cm).	(0.40) 2.00	
2.70-3.20	1	B				MADE GROUND: Grey brown sandy angular to subangular fine to coarse GRAVEL and angular COBBLES of slag.	(1.20)	
3.00	3	ES					3.20	
						Terminated at 3.20mbgl.		

General Remarks

1. Position scanned with a CAT, Genny and GPR prior to excavation.
2. Pit extended to the north to avoid boulder of slag at 1.2m on southern face of excavation.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**13 Ton Tracked Excavator**	**Jagan Raj**	JB

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TRIAL PIT LOG

Contract:	Client:	Trial Pit:
EAF Meltshop Project	**TATA Steel**	**TP346**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**05.08.24**	**---**	**E:276744.0 N:186640.0**	**1** of **1**
	End: **05.08.24**			

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
						MADE GROUND: Dark grey brown fine to coarse SAND and angular to subangular fine to coarse GRAVEL of slag, clinker, rare metal.		
0.50	1	ES						
						. . . More gravelly below 1.5m	(3.20)	
2.00-3.00	1	B				. . . Moderate cobble content of angular to subangular slag.		
2.00	2	ES						
3.00	3	ES						
							3.20	
						Terminated at 3.20mbgl.		

General Remarks

1. Position scanned with a CAT, Genny and GPR prior to excavation.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**13 Ton Tracked Excavator**	**Jagan Raj**	JB

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TRIAL PIT LOG

Contract:	Client:	Trial Pit:
EAF Meltshop Project	**TATA Steel**	**TP350**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**05.09.24** End: **05.09.24**	**---**	**E:277515.0 N:186892.0**	**1** of **1**

Samples and In-situ Tests				Water	Backfill & Instru-mentation	Description of Strata	Depth (Thick ness)	Material Graphic Legend
Depth	No	Type	Results					
						MADE GROUND: dDark brownish grey sandy clayey angular to subangular fine to coarse GRAVEL of slag. Sand is find to coarse. Hardstanding.	0.05	
0.50	1	ES				MADE GROUND: Grey, brownish grey and brown sandy clayey angular to subangular fine to coarse GRAVEL of slag. Sand is fine to coarse. . . . Recovered as grey sandy angular COBBLES and angular BOULDERS of slag. Sand is fine to coarse.	(0.75) 0.80	
						MADE GROUND: Compressed slag. Recovered as blueish grey angular COBBLES and angular BOULDERS of slag.	(0.40) 1.20	
1.50	2	ES				MADE GROUND: Dark grey fine to coarse SAND and angular to subangular fine to coarse GRAVEL of slag.	(0.50) 1.70	
						MADE GROUND: Light brown slightly sandy clayey angular to subangular fine to coarse GRAVEL and angular to subangular COBBLES of slag. Sand is fine to coarse.	1.90	
2.50	3	ES				MADE GROUND: Cream and grey angular to subangular sandy COBBLES and angular to subangular BOULDERS of slag. Sand is fine to coarse.	(0.70) 2.60	
						No groundwater encountered. Backfilled with arisings on completion.		

General Remarks

1. Position scanned with a CAT, Genny and GPR prior to excavation.
2. No groundwater encountered.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**13 Ton Tracked Excavator**	**Jagan Raj**	

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TRIAL PIT LOG

Contract:	Client:	Trial Pit:
EAF Meltshop Project	**TATA Steel**	**TP357**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**05.09.24** End: **05.09.24**	**---**	**E:277458.0 N:186912.0**	**1** of **1**

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
						MADE GROUND: Brown and grey sandy clayey angular to subangular fine to coarse GRAVEL of slag. Sand is fine to coarse. Hardstanding.	0.05	
						MADE GROUND: Brown, greyish brown and grey clayey fine to coarse SAND and angular to subangular fine to coarse GRAVEL of slag.		
0.50	1	ES				. . . Frequent cobbles of angular to subangular slag below 0.50m bgl.		
						. . . brown below 0.60m bgl.		
1.00	2	ES				. . . Grey below 1.0m bgl.		
						. . . Occasional angular coarse gravel of scrap metal below 1.10m bgl.	(2.45)	
						. . . Angular boulder of steel recovered at 1.40m bgl.		
						. . . Pocket of grey CLAY on eastern face of excavation between 1.70m and 1.80m bgl.		
2.20	3	ES				. . . Frequent cobbles and boulders of angular concrete below 2.10m bgl.		
							2.50	
						No groundwater encountered. Backfilled with arisings on completion.		

General Remarks

1. Position scanned with a CAT, Genny and GPR prior to excavation.
2. No groundwater encountered.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**13 Ton Tracked Excavator**	**Jagan Raj**	

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FINAL

TRIAL PIT LOG

Contract:	Client:	Trial Pit:
EAF Meltshop Project	**TATA Steel**	**TP365**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**03.10.24** End: **03.10.24**	**---**	**E:277707.0 N:186312.0**	**1** of **1**

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.30-0.60	1	B				MADE GROUND: Dark grey to grey sandy angular coarse GRAVEL of slag. Low angular cobble content of slag. Sand is fine to coarse.	(1.20)	
							1.20	
1.50-1.60	2	B		≈		MADE GROUND: Dark brownish grey sandy angular fine to coarse GRAVEL of limestone, mudstone and slag. Rare fragments of metal.	(1.00)	
							2.20	
						Yellow brown fine to coarse SAND. (BLOWN SAND)	2.30	
						Terminated at 2.3mbgl		

General Remarks

1. Position scanned with a CAT, Genny and GPR prior to excavation.
2. Groundwater encountered at 2.2m depth.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**13 Ton Tracked Excavator**	**Rachael Lockyer**	

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FINAL

TRIAL PIT LOG

Contract:	Client:	Trial Pit:
EAF Meltshop Project	**TATA Steel**	**TP366**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**03.10.24** End: **03.10.24**	**---**	**E:277607.0 N:186395.0**	**1** of **1**

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.50-0.80	1	B				MADE GROUND:Dark grey to grey slightly sandy angular fine to coarse GRAVEL of slag and brick with rare clinker and tile. Medium angular cobble content. Low angular boulder content (upto 0.25m).	(1.20) 1.20	
						MADE GROUND:Yellow brown slightly gravelly fine to coarse SAND. Frequent cobble size inclusions of stiff brown clay. Gravel is angular fine to coarse of slag.	(1.20) 2.40	
						. . . Possible obstruction at 2.40mbgl Terminated at 2.4mbgl.		

General Remarks

1. Position scanned with a CAT, Genny and GPR prior to excavation.
2. Groundwater encountered at 2.40m depth.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**13 Ton Tracked Excavator**	**Rachael Lockyer**	

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log TRIAL PIT LOG - NO PLAN - A4P | 315531 PORT TALBOT.GPJ - v10_01.
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FINAL

TRIAL PIT LOG

Contract:	Client:	Trial Pit:
EAF Meltshop Project	**TATA Steel**	**TP367**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**03.10.24** End: **03.10.24**	**---**	**E:277625.0 N:186274.0**	**1** of **1**

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
1.50-2.00	1	B		≈		MADE GROUND: Dark brownish grey sandy angular to subrounded fine to coarse GRAVEL of slag, mudstone and brick. Low angular cobble content of slag and brick. Sand is fine to coarse.	(2.40)	
						Trial pit terminated at 2.4mbgl	2.40	

General Remarks

1. Position scanned with a CAT, Genny and GPR prior to excavation.
2. Groundwater encountered at 2.4m depth.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**13 Ton Tracked Excavator**	**Rachael Lockyer**	

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TRIAL PIT LOG

Contract:		Client:		Trial Pit:
EAF Meltshop Project		**TATA Steel**		**TP368**
Contract Ref:	Start: **03.10.24**	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	End: **03.10.24**	**---**	**E:277550.0 N:186350.0**	**1** of **1**

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.50-1.00	1	B				MADE GROUND: Grey mottled yellow brown slightly sandy angular fine to coarse GRAVEL and COBBLES of concrete and very rare slag. Sand is fine to coarse.	(1.00) 1.00	
1.00-1.50	2	B				MADE GROUND: Black slightly ashy angular fine to coarse GRAVEL of mudstone and coal.	(1.50) 2.50	
						Terminated at 2.5mbgl		

General Remarks

1. Position scanned with a CAT, Genny and GPR prior to excavation.
2. Groundwater encountered at 2.5m depth.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**13 Ton Tracked Excavator**	**Rachael Lockyer**	

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log TRIAL PIT LOG - NO PLAN - A4P | 315531 PORT TALBOT.GPJ - v10_01.
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TRIAL PIT LOG

Contract:	Client:	Trial Pit:
EAF Meltshop Project	**TATA Steel**	**TP371**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**09.08.24** End: **09.08.24**	**---**	**E:277650.0 N:185927.0**	**1** of **1**

Samples and In-situ Tests				Water	Backfill & Instru-mentation	Description of Strata	Depth (Thick ness)	Material Graphic Legend
Depth	No	Type	Results					
						MADE GROUND: Grey sandy GRAVEL and COBBLES. Gravel is angular to subangular fine to coarse slag. Cobbles are angular to subangular slag.	(0.30) 0.30	
0.50	1	ES				MADE GROUND: Grey sandy GRAVEL of angular to subangular fine to coarse slag with a slight hydrocarbon odour. Sand is fine to coarse. . . . Geotextile membrane encountered at 0.6m bgl.	(0.50) 0.80	
						MADE GROUND: Layer of compressed slag. Recovered as greyish brown angular to subangular fine to coarse GRAVEL and angular cobbles of slag.	1.00	
1.00-1.20	2	ES				MADE GROUND: Dark grey fine to coarse SAND and angular to subangular fine to coarse GRAVEL of slag, rare brick, clinker, metal and wood.	1.20	
						MADE GROUND: Greyish brown clayey COBBLES of angular to subangular slag.	(0.80) 2.00	
2.00	3	ES				Yellowish brown clayey fine to medium SAND. (BLOWN SAND)	(0.80) 2.80	
						No groundwater encountered.Terminated due to pit instability and backfilled with arisings on completion.		

General Remarks

1. Position scanned with a CAT, Genny and GPR prior to excavation.
2. Difficult to dig at 0.8m and 1.2m, breaker required.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**13 Ton Tracked Excavator**	**Jagan Raj**	

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log TRIAL PIT LOG - NO PLAN - A4P | 315531 PORT TALBOT.GPJ - v10_01.
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TRIAL PIT LOG

Contract:	Client:	Trial Pit:
EAF Meltshop Project	**TATA Steel**	**TP372**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**20.08.24** End: **20.08.24**	**---**	**E:277681.0 N:185883.0**	**1** of **1**

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.10 0.10	1	ES PID	0.0ppm			MADE GROUND: Moss over black ashy fine to coarse SAND.	0.05	
						MADE GROUND: Black slightly sandy silty angular fine to coarse GRAVEL of slag. Sand is fine to coarse.	0.20	
						MADE GROUND: Grey angular GRAVELS AND COBBLES of limestone, slag , full bricks, aggregate. Rare metal fragments.	(0.55)	
							0.75	
0.75 0.75	2	ES PID	0.0ppm			MADE GROUND: Brown gravelly fine to coarse SAND. Gravel is angular fine to coarse of slag.	(0.85)	
							1.60	
1.60 1.60	3	ES PID	0.0ppm			Yellow brown fine to coarse SAND. (BLOWN SAND).	(1.10)	
							2.70	

General Remarks

1. Position scanned with a CAT, Genny and GPR prior to excavation.
2. No groundwater encountered.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**13 Ton Tracked Excavator**	**Rachael Lockyer**	

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TRIAL PIT LOG

Contract:	Client:	Trial Pit:
EAF Meltshop Project	**TATA Steel**	**TP374**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	End: **19.08.24**	**---**	**E:277582.0 N:185765.0**	**1** of **1**

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.30 0.30	1	ES PID	0.0ppm			MADE GROUND: Black slightly ashy slightly gravelly fine to coarse SAND. Gravel is angular fine to coarse of slag. Rare fragments of textile. . . . Becomes black and brown at 0.3mbgl.	(0.50) 0.50	
						MADE GROUND: Grey angular GRAVEL and COBBLES with medium boulder content (upto 0.40m long).	(0.90) 1.40	
1.40 1.40 1.40 1.40	2	ES V V PID	c_u=29/13/17 c_r=7/7/5 0.4ppm			MADE GROUND: Black mottled yellow brown slightly gravelly silty CLAY. Gravel is angular fine to coarse of slag, mudstone, coal. Strong hydrocarbon odour. . . . Rotten egg odour approx 2m	(1.50) 2.90	
						Terminated at 2.9mbgl		

General Remarks

1. Position scanned with a CAT, Genny and GPR prior to excavation.
2. Groundwater not encountered.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**13 Ton Tracked Excavator**	**Rachael Lockyer**	

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TRIAL PIT LOG

Contract:	Client:	Trial Pit:
EAF Meltshop Project	**TATA Steel**	**TP375**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**19.08.24** End: **19.08.24**	**---**	**E:277554.0 N:185784.0**	**1** of **1**

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.50 0.50	1	ES PID	0.1ppm			MADE GROUND Grass over black slightly ashy gravelly fine to coarse SAND. Gravel is angular fine to coarse of brick and slag. Medium angular cobble content of slag. . . . Frequent rootlets between 0.0-0.5mbgl	(0.90) 0.90	
						MADE GROUND:Grey angular GRAVELS and COBBLES of slag.	(0.70) 1.60	
1.60 1.60 1.60 1.60	2	ES V V PID	c_u=26/34/34 c_r=5/34/30 0.3ppm	≈		MADEGROUND- black mottled orange/yellow brown slightly gravelly silty CLAY. Gravel is angular coarse of clinker and slag. Hydrocarbon odour noted.	(1.50) 3.10	
						Terminated at 3.1mbgl		

General Remarks

1. Position scanned with a CAT, Genny and GPR prior to excavation.
2. Groundwater encountered at 3.0m depth.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**13 Ton Tracked Excavator**	**Rachael Lockyer**	

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TRIAL PIT LOG

Contract:	Client:	Trial Pit:
EAF Meltshop Project	**TATA Steel**	**TP376**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	End: **19.08.24**	**---**	**E:277574.0 N:185849.0**	**1** of **1**

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.25 0.25	1	ES PID	0.0ppm			MADE GROUND Grass over black slightly ashy slightly gravelly fine to coarse SAND. Gravel is angular fine to coarse of brick and slag. Large metal sign found at 0.10mbgl.	(0.50) 0.50	
						MADE GROUND Grey COBBLES of slag. Medium boulder content (upto 0.5m long) . Strong hydrocarbon odour.	(1.50) 2.00	
2.00 2.00 2.00 2.00	2	ES V V PID	c_u=72/40/50 c_r=50/20/40 0.1ppm	≈		MADE GROUND Black mottled yellow brown slightly gravelly silty CLAY. Hydrocarbon odour. Gravel is angular fine to coarse of slag.	(0.60) 2.60	
						Terminated at 2.6mbgl due to refusal on hard stratum.		

General Remarks

1. Position scanned with a CAT, Genny and GPR prior to excavation.
2. Groundwater encountered at 2.6m depth.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**13 Ton Tracked Excavator**	**Rachael Lockyer**	

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FINAL

TRIAL PIT LOG

Contract:		Client:		Trial Pit:
EAF Meltshop Project		TATA Steel		TP381
Contract Ref:	**Start:**	**Ground Level:**	**National Grid Co-ordinate:**	**Sheet:**
315531	06.08.24 End: 06.08.24	---	E:277118.0 N:186677.0	1 of 1

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
						CONCRETE. Recovered as white angular gravel and cobbles with very common 1mm wide translucent plastic rectangular strips within the matrix.	(0.30) 0.30	
0.50	1	ES				MADE GROUND: Grey brown very gravelly CLAY. Gravel is subangular to subrounded fine to coarse slag.		
						. . . Light brown sandy band.	(1.80)	
1.70	2	ES				. . . Slightly gravelly and sandy.	2.10	
						MADE GROUND: Dark grey slightly sandy silty CLAY with moderate ash content.	(0.70)	
2.50	3	ES					2.80	
						Terminated at 2.80mbgl.		

General Remarks

1. Position scanned with a CAT, Genny and GPR prior to excavation.

All dimensions in metres | Scale: 1:25

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	13 Ton Tracked Excavator	Jagan Raj	JB

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FINAL

TRIAL PIT LOG

Contract:	Client:	Trial Pit:
EAF Meltshop Project	**TATA Steel**	**TP383**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**05.08.24**	**---**	**E:277092.0 N:186650.0**	**1** of **1**
	End: **05.08.24**			

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.50	1	ES				MADE GROUND: Grey brown and light brown clayey GRAVEL of subangular to subrounded fine to coarse slag. . . . Tyre on eastern face of excavation.	(1.10) 1.10	
1.20	2	ES				Dark grey mottled green grey silty CLAY with rare gravel of subangular to subrounded fine to coarse wood. (Probable Made Ground)	(0.50) 1.60	
						Terminated due to groundwater.		

General Remarks

1. Position scanned with a CAT, Genny and GPR prior to excavation.
2. Groundwater encountered at 1.1m depth.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**13 Ton Tracked Excavator**	**Jagan Raj**	JB

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FINAL

TRIAL PIT LOG

Contract:	Client:	Trial Pit:
EAF Meltshop Project	**TATA Steel**	**TP384**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**06.08.24** End: **06.08.24**	**---**	**E:277092.0 N:186694.0**	**1** of **1**

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.20	1	ES				MADE GROUND: Grey brown and dark brown gravelly sandy CLAY. Gravel isbsubangular to subrounded fine to coarse slag, rare brick and wood. Sand is fine to coarse. (Topsoil)	(0.40)	
							0.40	
						MADE GROUND: Layer of compressed slag. Recovered as clayey angular to subangular fine to coarse gravel and angular cobbles.	0.50	
						MADE GROUND: Light brown clayey gravelly fine to medium SAND. Gravel is subangular to subrounded fine to coarse slag, metal.	(1.10)	
1.50	2	ES						
							1.60	
						. . . Orange pipe (18cm diameter). Terminated due to service pipe at 1.6m bgl.		

General Remarks

1. Position scanned with a CAT, Genny and GPR prior to excavation.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**13 Ton Tracked Excavator**	**Jagan Raj**	JB

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FINAL

TRIAL PIT LOG

Contract:	Client:	Trial Pit:
EAF Meltshop Project	**TATA Steel**	**TP386**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**06.08.24** End: **06.08.24**	**---**	**E:277051.0 N:186751.0**	**1** of **1**

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.60	1	ES				MADE GROUND: Grey brown clayey fine to coarse SAND and subangular to subrounded fine to coarse GRAVEL of slag, clinker and rare metal. Moderate cobble content. Cobbles are angular to subangular slag.	(1.00) 1.00	
1.50	2	ES				MADE GROUND: Brown clayey gravelly fine to coarse SAND. Gravel is subangular to subrounded fine to coarse slag and metal. . . . Dark grey.	(0.70) 1.70	
						MADE GROUND: Recovered as light brown sandy clayey COBBLES of angular to subangular slag and occasional red brick.	(0.50) 2.20	
2.70	3	ES		≈ ≈		Yellow brown fine to medium slightly gravelly SAND. Gravel is subangular to subrounded fine to coarse weak sandstone. (BLOWN SANDS).	(0.80) 3.00	
						Terminated at 3.00mbgl.		

General Remarks

1. Position scanned with a CAT, Genny and GPR prior to excavation.
2. Groundwater encountered at 2.4m depth.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**13 Ton Tracked Excavator**	**Jagan Raj**	JB

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FINAL

TRIAL PIT LOG

Contract:	Client:	Trial Pit:
EAF Meltshop Project	**TATA Steel**	**TP387**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**01.08.24** End: **02.08.24**	**17.34**	**E:276830.7 N:186578.6**	**1** of **1**

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.50	1	ES				MADE GROUND: Dark grey brown slightly sandy clayey GRAVEL of angular to subangular fine to coarse slag, occasional metal, rare red brick and wood. High cobble content of angular to subangular slag.		
						. . . Boulder of slag (80cm) recovered from eastern face of excavation.		
						. . . Old steel pipe (10cm diameter) on northeast corner of excavation running from North to South.	(1.90)	
1.00-1.50	1	B						
1.50	2	ES					1.90	
						CONCRETE. Recovered as gravel and cobbles. Gravel is angular to subangular fine to coarse concrete and rebar (3cm). Cobbles are angular to subangular concrete.	(0.30)	
							2.20	
						Yellow fine to medium SAND. (BLOWN SAND) (BLOWN SAND)		
2.50-2.90	3	ES					(0.70)	
							2.90	
						Terminated at 2.9mbgl.		

General Remarks

1. Position scanned with a CAT, Genny and GPR prior to excavation.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**13 Ton Tracked Excavator**	**Jagan Raj**	JB

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log TRIAL PIT LOG - NO PLAN - A4P | 315531 PORT TALBOT.GPJ - v10_01.
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FINAL

TRIAL PIT LOG

Contract:		Client:		Trial Pit:
EAF Meltshop Project		**TATA Steel**		**TP388**
Contract Ref:	Start: **01.08.24**	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	End: **01.08.24**	**17.35**	**E:276869.2 N:186592.3**	**1** of **1**

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.00-1.00	1	B				MADE GROUND: Dark grey slightly sandy clayey GRAVEL of subangular to subrounded fine to coarse slag and rare scrap metal. High cobble content of angular to subangular slag.		
0.50	1	ES						
							(2.80)	
1.50	2	ES						
						. . . Layer of compressed slag.		
						. . . Old cable.		
2.50-3.00	2	B						
2.50	3	ES					2.80	
						Terminated at 2.80mbgl.		

General Remarks

1. Position scanned with a CAT, Genny and GPR prior to excavation.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**13 Ton Tracked Excavator**	**Jagan Raj**	JB

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FINAL

TRIAL PIT LOG

Contract:	Client:	Trial Pit:
EAF Meltshop Project	**TATA Steel**	**TP389**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**11.07.24** End: **11.07.24**	**17.01**	**E:276943.1 N:186608.1**	**1** of **1**

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
						MADE GROUND. Grey brown clayey subangular to subrounded fine to coarse GRAVEL of slag with low cobble content.	(0.50) 0.50	
0.20	1	B						
0.50	1	ES				MADE GROUND. Dark grey silty SAND and GRAVEL with rare pockets of friable stiff dark grey clay. Gravel is subangular to subrounded fine to coarse slag and metal. Sand is fine to coarse. . . . Cobble of orange angular wooden plank on northern face of excavation at 0.90m bgl. Approximately 15cm in width and 5cm in depth, aligned north to south.	(2.10) 2.60	
1.40	2	B						
1.60	2	ES				. . . Layer of compacted slag at 1.70m bgl. Recovered as cobbles and boulders. . . . Becoming greyish brown and clayey from 2.0m bgl. . . . Layer of compacted slag at 2.10m bgl. Recovered as cobbles and boulders.		
2.60	3	B				Yellow brown slightly gravelly fine to coarse SAND. Gravel is subangular to subrounded fine to coarse of sandstone. (BLOWN SAND)	(0.40) 3.00	
2.80	3	ES						
						Trial pit terminated at 3.0mbgl.		

General Remarks

1. Position scanned with a CAT, Genny and GPR prior to excavation.
2. No groundwater encountered.
3. Upon completion trial pit backfilled with arisings.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**13 Ton Tracked Excavator**	**Jagan Raj**	JB

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FINAL

TRIAL PIT LOG

Contract:	Client:	Trial Pit:
EAF Meltshop Project	**TATA Steel**	**TP390**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**11.07.24** End: **11.07.24**	**17.46**	**E:276920.1 N:186642.7**	**1** of **1**

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.00-0.50	1	B				MADE GROUND. Grey brown clayey fine to coarse SAND and subangular to subrounded fine to coarse GRAVEL of slag, clinker and metal. . . . Becomes brown at 0.50m bgl.		
0.50-1.50	2	B						
0.70	1	ES					(1.50)	
							1.50	
1.50-2.20	3	B				MADE GROUND. Layer of compacted slag recovered as grey brown subrounded COBBLES.	(0.90)	
							2.40	
2.40-3.00	4	B				MADE GROUND. Dark greenish grey sandy CLAY with occasional pockets of brown fibrous peat. Rare cobbles of subrounded slag.		
							(1.70)	
3.50	2	ES						
							4.10	
						Trial pit terminated at 4.10m bgl.		

General Remarks

1. Position scanned with a CAT, Genny and GPR prior to excavation.
2. No groundwater encountered.
3. Upon completion trial pit backfilled with arisings.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**13 Ton Tracked Excavator**	**Jagan Raj**	JB

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FINAL

TRIAL PIT LOG

Contract:		Client:		Trial Pit:
EAF Meltshop Project		TATA Steel		TP391
Contract Ref:	Start: 31.07.24	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	End: 31.07.24	---	E:276977.0 N:186587.0	1 of 1

Samples and In-situ Tests				Water	Backfill & Instru-mentation	Description of Strata	Depth (Thick ness)	Material Graphic Legend
Depth	No	Type	Results					
0.50	1	ES				MADE GROUND: Grey brown and brown slightly sandy very gravelly CLAY. Gravel is subangular to subrounded fine to coarse slag and metal. . . . Band of dense grey angular fine to coarse GRAVEL of slag.	(1.50) 1.50	
1.50	2	ES				MADE GROUND: Dark grey brown fine to coarse SAND and subangular to subrounded fine to coarse GRAVEL of slag.		
2.00	1	B				. . . Layer of compressed slag.	(1.70)	
2.50-3.00	3	ES						
2.70-3.20	2	B					3.20	
						Terminated at 3.20mbgl.		

General Remarks

1. Position scanned with a CAT, Genny and GPR prior to excavation.

All dimensions in metres | Scale: 1:25

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	13 Ton Tracked Excavator	Jagan Raj	JB

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FINAL

TRIAL PIT LOG

Contract:	Client:	Trial Pit:
EAF Meltshop Project	**TATA Steel**	**TP392**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**31.07.24** End: **31.07.24**	**16.28**	**E:276988.5 N:186663.0**	**1** of **1**

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
						MADE GROUND: Brown fine to coarse SAND and subangular to subrounded fine to coarse GRAVEL of slag, brick and metal. High cobble content. Cobbles are angular brick and slag.		
0.50	1	ES				. . . Cobbles of brick.	(2.00)	
							2.00	
2.00-2.50	1	B				MADE GROUND: Light brown, yellow brown and grey slightly gravelly sandy CLAY. Gravel is fine to coarse slag. Moderate cobble content of subangular slag.		
2.00	2	ES						
2.70-3.30	2	B				. . . Becoming grey.	(1.30)	
3.00	3	ES						
							3.30	
						Terminated at 3.30mbgl.		

General Remarks

1. Position scanned with a CAT, Genny and GPR prior to excavation.
2. Groundwater encountered at 3.3m depth.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**13 Ton Tracked Excavator**	**Jagan Raj**	JB

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TRIAL PIT LOG

Contract:	Client:	Trial Pit:
EAF Meltshop Project	**TATA Steel**	**TP393**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**31.07.24** End: **31.07.24**	**16.36**	**E:276999.3 N:186690.6**	**1** of **1**

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
						MADE GROUND: Dark grey brown MADE GROUND: clayey fine to coarse SAND and subangular to subrounded fine to coarse GRAVEL of slag. Moderate cobble content of angular to subangular slag.	(0.40)	
						. . . Mottled light brown and red brown on northern face of excavation.	0.40	
0.50	1	ES				MADE GROUND: Dark green grey speckled black slightly gravelly CLAY with a strong salty odour. gravel is subangular to subrounded fine to coarse slag and petrifiedwood.		
1.00-1.50	1	B						
							(2.90)	
2.00	2	ES				. . . Occasional pockets of petrified wood (<30cm).		
						. . . Mottled black.		
2.70-3.30	2	B						
3.00-3.30	3	ES						
							3.30	
						Terminated at 3.30mbgl.		

General Remarks

1. Position scanned with a CAT, Genny and GPR prior to excavation.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**13 Ton Tracked Excavator**	**Jagan Raj**	JB

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FINAL

TRIAL PIT LOG

Contract:	Client:	Trial Pit:
EAF Meltshop Project	**TATA Steel**	**TP395**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**09.08.24** End: **09.08.24**	**16.36**	**E:276999.3 N:186690.6**	**1** of **1**

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
						MADE GROUND: Greyish brown slightly sandy angular to subangular fine to coarse GRAVEL of slag and angular to subangular COBBLES of slag. Sand is coarse.		
0.80	1	ES				. . . Moderate boulder content of angular slag.	(2.50)	
2.00	2	ES						
2.40	3	ES		≈			2.50	
						Groundwater encountered at 2.4m and terminated at 2.5m bgl due to collapse. Backfilled with arisings on completion.		

General Remarks

1. Position scanned with a CAT, Genny and GPR prior to excavation.
2. Groundwater encountered at 2.5m bgl.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**13 Ton Tracked Excavator**	**Jagan Raj**	

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TRIAL PIT LOG

Contract:	Client:	Trial Pit:
EAF Meltshop Project	**TATA Steel**	**TP396**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**14.08.24** End: **14.08.24**	**6.56**	**E:277417.0 N:185968.1**	**1** of **1**

Samples and In-situ Tests				Water	Backfill & Instru-mentation	Description of Strata	Depth (Thick ness)	Material Graphic Legend
Depth	No	Type	Results					
						MADE GROUND. Dark brown gravelly clayey fine to coarse SAND onto compact concrete GRAVEL. (MADE GROUND)	0.10	
						. . . Compact concrete and slag	(0.40)	
0.40-0.50	1	ES				MADE GROUND. Brown very sandy fine to coarse GRAVEL. Sand is fine to coarse. Gravel is angular to subangular of mixed lithologies including concrete brick wood slag and metal. (MADE GROUND)	0.50	
						Light brown fine to coarse SAND. (BLOWN SAND)	0.60	
						Black clayey fine to coarse SAND. Very strong asphalt odour. (BLOWN SAND)	(2.00)	
2.00-2.20	2	ES						
						Unstable	2.60	

General Remarks

1. Position scanned with a CAT, Genny and GPR prior to excavation.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**13 Ton Tracked Excavator**	**Adam Livesey**	JB

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TRIAL PIT LOG

Contract:	Client:	Trial Pit:
EAF Meltshop Project	**TATA Steel**	**TP397**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**14.08.24** End: **14.08.24**	**6.86**	**E:277380.2 N:186090.7**	**1** of **1**

Samples and In-situ Tests				Water	Backfill & Instru-mentation	Description of Strata	Depth (Thick ness)	Material Graphic Legend
Depth	No	Type	Results					
0.00-0.30	1	ES				MADE GROUND. andy GRAVEL onto black very gravelly fine to coarse SAND. Gravel is angular to subangular of mixed lithologies including brick metal slag concrete and wood. Strong hydrocarbon/asphalt smell. (MADE GROUND) . . . Sand is oil coated . . . Buried manhole at 0.3m	(0.60) 0.60	
						MADE GROUND. Light brown gravelly fine to coarse SAND. Gravel is subangular to subrounded fine to coarse of mixed lithologies. (MADE GROUND)	0.80	
						Buried manhole		

General Remarks

1. Position scanned with a CAT, Genny and GPR prior to excavation.
4. Pit moved east to avoid concrete obstruction to be discovered as manhole.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**13 Ton Tracked Excavator**	**Adam Livesey**	JB

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FINAL

TRIAL PIT LOG

Contract:	Client:	Trial Pit:
EAF Meltshop Project	**TATA Steel**	**TP399**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**14.08.24** End: **14.08.24**	**6.81**	**E:277530.8 N:186036.9**	**1** of **1**

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.50-0.70	1	ES				MADE GROUND. Black very gravelly fine to coarse SAND with medium cobble content. Gravel is angular to subangular fine to coarse of brick concrete slag rebar and occasional wood. Cobbles are angular to subangular of concrete brick and slag. Slight hydrocarbon odour. . . . Dense compact gravels of concrete slag and brick	(0.80) 0.80	
						MADE GROUND. Compressed slag brick and concrete. . . . Dense compact gravels of concrete slag and brick	(0.60) 1.40	
1.40-1.50	2	ES				MADE GROUND. Light brown slightly gravelly fine to coarse coarse SAND. Gravel is fine to coarse angular to subrounded of brick and coal fragments. Pockets of black oil soaked sand. Strong hydro carbon odour. (MADE GROUND)	(0.60) 2.00	
2.90-3.00	3	ES				Soft greenish grey sandy CLAY. Sand is fine to coarse. (TIDAL FLAT DEPOSITS)	(1.00) 3.00	

General Remarks

1. Position scanned with a CAT, Genny and GPR prior to excavation.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**13 Ton Tracked Excavator**	**Adam Livesey**	JB

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TRIAL PIT LOG

Contract:	Client:	Trial Pit:
EAF Meltshop Project	**TATA Steel**	**TP3001**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**14.08.24** End: **14.08.24**	**---**	**E:277504.0 N:186098.0**	**1** of **1**

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.20-0.30	1	ES				MADE GROUND. Light brown gravelly fine to coarse SAND. Gravel is angular to subrounded fine to coarse of mixed lithologies including brick and concrete.	(0.30) 0.30	
						MADE GROUND. Black sandy GRAVEL with medium cobble content. Gravel is angular to subangular fine to coarse of mixed lithologies including brick and concrete. Cobble are angular to subangular of brick concrete and slag.	(0.30) 0.60	
						. . . Concrete slab		
1.00-1.20	2	ES				MADE GROUND. Light brown gravelly fine to coarse SAND with low cobble content. Gravel is angular to subangular fine to coarse of mixed lithologies including concrete and rebar. Cobbles are angular to subangular. (MADE GROUND)	(0.90) 1.50	
1.80-2.00	3	ES		≈		MADE GROUND. Black fine to coarse clayey fine to coarse SAND.	(0.50) 2.00	
						Water seepage		

General Remarks

1. Position scanned with a CAT, Genny and GPR prior to excavation.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**13 Ton Tracked Excavator**	**Adam Livesey**	JB

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TRIAL PIT LOG

Contract:	Client:	Trial Pit:
EAF Meltshop Project	**TATA Steel**	**TP3002**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**14.08.24** End: **14.08.24**	**6.66**	**E:277467.8 N:186093.8**	**1** of **1**

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
						Concrete rebar hardstanding	(0.30) 0.30	
						MADE GROUND. Dark grey very gravelly fine to coarse SAND. Gravel is angular to subangular fine to coarse of concrete.	0.40	
						Light brown fine to coarse SAND. (BLOWN SAND)	(1.40) 1.80	
2.00-2.10	Es1	ES		≈		Greenish grey clayey fine to coarse SAND. Musty asphalt odour	(0.70) 2.50	
						Unstable		

General Remarks

1. Position scanned with a CAT, Genny and GPR prior to excavation.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**13 Ton Tracked Excavator**	**Adam Livesey**	JB

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FINAL

TRIAL PIT LOG

Contract:	Client:	Trial Pit:
EAF Meltshop Project	**TATA Steel**	**TP3003**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**30.08.24**	**---**	**E:276128.0 N:188503.0**	**1** of **1**
	End: **30.08.24**			

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
						MADE GROUND. Grass over dark brown sandy slightly gravelly silt TOPSOIL. Sand if fine to coarse. Gravel is angular to subangular fine to coarse of slag and mudstone.	0.10	
						MADE GROUND. Grey sandy angular fine to coarse GRAVEL and COBBLES of slag with frequent angular boulders of slag.	(1.40)	
0.80	ES1	ES						
						Trial pit terminated at 1.50m bgl and backfilled with arisings.	1.50	

General Remarks

1. Position scanned with a CAT and Genny prior to excavation.
2. No groundwater encountered.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**13 Ton Tracked Excavator**	**Kieran Bancroft**	

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FINAL

TRIAL PIT LOG

Contract:	Client:	Trial Pit:
EAF Meltshop Project	**TATA Steel**	**TP3004**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**02.09.24** End: **02.09.24**	**---**	**E:276259.0 N:188483.0**	**1** of **1**

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
						MADE GROUND. Grass over dark brown sandy slightly gravelly silt TOPSOIL. Sand if fine to coarse. Gravel is angular to subangular fine to coarse of slag and mudstone.	(0.50) 0.50	
0.80	B1	B				MADE GROUND. Grey sandy angular fine to coarse GRAVEL and COBBLES of slag with frequent angular boulders of slag.	(0.70) 1.20	
						Trial pit terminated at 1.20m bgl and backfilled with arisings.		

General Remarks

1. Position scanned with a CAT and Genny prior to excavation.
2. No groundwater encountered.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**13 Ton Tracked Excavator**	**Kieran Bancroft**	

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FINAL

TRIAL PIT LOG

Contract:	Client:	Trial Pit:
EAF Meltshop Project	**TATA Steel**	**TP3005**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**30.08.24**	**---**	**E:276356.0 N:188464.0**	**1** of **1**
	End: **30.08.24**			

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.10	ES1	ES				MADE GROUND. Grass over dark brown sandy slightly gravelly silt TOPSOIL. Sand if fine to coarse. Gravel is angular to subangular fine to coarse of slag and mudstone.	0.20	
						MADE GROUND. Grey sandy angular fine to coarse GRAVEL and COBBLES of slag with frequent angular boulders of slag.	(2.10)	
1.50	ES2	ES						
							2.30	
						Trial pit terminated at 2.30m bgl and backfilled with arisings.		

General Remarks

1. Position scanned with a CAT and Genny prior to excavation.
2. No groundwater encountered.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**13 Ton Tracked Excavator**	**Kieran Bancroft**	

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log TRIAL PIT LOG - NO PLAN - A4P | 315531 PORT TALBOT.GPJ - v10_01.
RSK Environment Ltd, The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117 947 1006 Fax: 0117 947 1009 Web: www.rsk.co.uk. | 31/01/25 - 15:59 | JB17 |

FINAL

TRIAL PIT LOG

Contract:	Client:	Trial Pit:
EAF Meltshop Project	**TATA Steel**	**TP3006**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**02.09.24** End: **02.09.24**	**---**	**E:276326.0 N:188469.0**	**1** of **1**

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
						MADE GROUND. Grass over dark brown sandy slightly gravelly silt TOPSOIL. Sand if fine to coarse. Gravel is angular to subangular fine to coarse of slag and mudstone.	(0.50) 0.50	
0.90	B1	B				MADE GROUND. Grey sandy angular fine to coarse GRAVEL and COBBLES of slag with frequent angular boulders of slag.	(1.00) 1.50	
						Trial pit terminated at 1.50m bgl and backfilled with arisings.		

General Remarks

1. Position scanned with a CAT and Genny prior to excavation.
2. No groundwater encountered.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**13 Ton Tracked Excavator**	**Kieran Bancroft**	

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log TRIAL PIT LOG - NO PLAN - A4P | 315531 PORT TALBOT.GPJ - v10_01.
RSK Environment Ltd, The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117 947 1006 Fax: 0117 947 1009 Web: www.rsk.co.uk. | 31/01/25 - 15:59 | JB17 |

FINAL

TRIAL PIT LOG

Contract:	Client:	Trial Pit:
EAF Meltshop Project	**TATA Steel**	**TP3007**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	**02.09.24** End: **02.09.24**	**---**	**E:276440.0 N:188454.0**	**1** of **1**

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
						MADE GROUND. Grass over dark brown sandy slightly gravelly silt TOPSOIL. Sand if fine to coarse. Gravel is angular to subangular fine to coarse of slag ad mudstone.	(0.60) 0.60	
						MADE GROUND. Grey sandy angular fine to coarse GRAVEL and COBBLES of slag with frequent angular boulders of slag.	(1.20) 1.80	
1.50	B1	B						
						Trial pit terminated at 1.8m bgl and backfilled with arisings.		

General Remarks

1. Position scanned with a CAT and Genny prior to excavation.
2. No groundwater encountered.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**13 Ton Tracked Excavator**	**Kieran Bancroft**	

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log TRIAL PIT LOG - NO PLAN - A4P | 315531 PORT TALBOT.GPJ - v10_01.
RSK Environment Ltd, The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117 947 1006 Fax: 0117 947 1009 Web: www.rsk.co.uk. | 31/01/25 - 15:59 | JB17 |

APPENDIX E
GROUND GAS MONITORING DATA AND SITE CONDITIONS

GAS MONITORING FIELD SHEET

Monitoring Date:	01.08.2024	Measurement datum: TOC / GL / TOP / Other	TOC	Offset to GL (m):	0

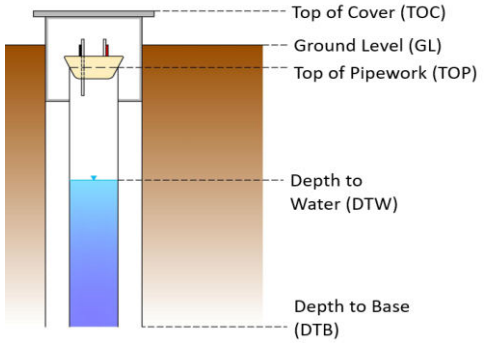
Pre-Testing Remarks:		Air Temperature: °C		Device:	G508232
Falling pressure		Weather:	Sunny	Serial Number:	
		Ground Conditions:	Dry	Daily Check:	
		Wind: NONE / LIGHT / MEDIUM / STRONG			
		Tidal State: (if applicable) High / Low / Rising / Falling		Rising	
Exploratory Position ID:	BH301	Monitoring Round Number:	1	Test Number:	
Install Type: SINGLE / DOUBLE		Pipe Ref: 1) Shallow 2) Deep		Pipe Diameter: 19mm/ 40mm / 50mm / Other (mm)	

Time of Monitoring (hh:mm)	Flow readings	Gas readings	Atmospheric Pressure (mb)	Differential Pressure (mb)	Gas tap: SINGLE / DOUBLE	
Time Start (hh:mm)	11:00		1011		Observations (e.g. on-site activities):	
Time End (hh:mm)	14:30					

Stage 1 Flow Readings	**Stage 1** Flow Readings	**Stage 2** Gas Monitoring:	Methane (%/vol)	Carbon Dioxide (%/vol)	Oxygen (%/vol)	Carbon monoxide (ppm)	Hydrogen sulphide (ppm)	LEL (%)	PID (ppm)
Time of flow monitoring (sec)	Flow Reading (l/hr)	Time of gas monitoring (sec)							
0	-2.2	0	0.2	0.1	13.8	6	0		
5	-2.2	15	0.2	0.1	10.4	5	0		
10		30							
15		60							
20		90							
25		120							
30		180							
40		240							
50		300							
60		360							
90		420							
120		480							
150		540							
180		600							

Stage 1 gas flow - Peak (l/h)	-2.2	**Note:** Flow should be recorded at 5 second intervals up to 30 seconds, 10 second intervals to 2 minutes and 30 second intervals up to 3 minutes or until steady-state readings are obtained. Typically, steady state conditions occur within 30 seconds to a minute. The differential pressure reading (in Pa) should also be recorded during this period.
Stage 1 gas flow - Steady State (l/h)	-2.2	

STAGE 3 WATER LEVEL OBSERVATION						
	Depth (from datum) to water (DTW): (m)	1.33	Time:		LNAPL Top (from datum) (m):	
	Depth (from datum) to well base (DTB): (m)	21.4	Purge Start:		DNAPL Top (from datum) (m):	
	Hole Purged: Yes / No		Purge End:		Water Observations:	
	Purge Volume: (ltrs)		Post-Purge (DTW) (m)			



Post testing remarks:

Steady state value are taken when there is no change for 1 minute. All measurements taken from the current ground level.

Samples Taken: Yes / No	
Sample Media: Gas/Water	
Gas Cannister Start (mb)	
Gas Cannister End (mb)	
Gas Cannister Duration (mins)	

Depth (from datum)	Sample Ref	Type (EW / G)	Container

Contract Name:	EAF Project	Data Collected By:	
Project Manager / Engineer:	James Bloore	Checked:	
Contract Ref:	315531	Page number:	

GAS MONITORING FIELD SHEET

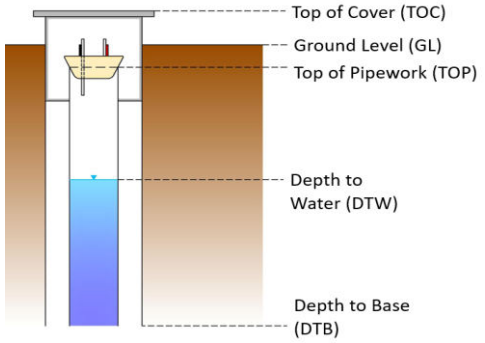
Monitoring Date:	01.08.2024	Measurement datum: TOC / GL / TOP / Other	TOC	Offset to GL (m):			0
Pre-Testing Remarks:		Air Temperature: °C				Device:	G508232
Falling pressure		Weather:		Sunny		Serial Number:	
		Ground Conditions:		Dry		Daily Check:	
		Wind: NONE / LIGHT / MEDIUM / STRONG					
		Tidal State: (if applicable) High / Low / Rising / Falling		Rising			
Exploratory Position ID:	BH311	Monitoring Round Number:		1		Test Number:	
Install Type: SINGLE / DOUBLE		Pipe Ref: 1) Shallow 2) Deep				Pipe Diameter: 19mm/ 40mm / 50mm / Other (mm)	

Time of Monitoring (hh:mm)	Flow readings	Gas readings	Atmospheric Pressure (mb)	Differential Pressure (mb)	Gas tap: SINGLE / DOUBLE	
Time Start (hh:mm)	11:00		1011		Observations (e.g. on-site activities):	
Time End (hh:mm)	14:30					

Stage 1 Flow Readings	**Stage 1** Flow Readings	**Stage 2** Gas Monitoring:	Methane (%/vol)	Carbon Dioxide (%/vol)	16.3	Carbon monoxide (ppm)	Hydrogen sulphide (ppm)	LEL (%)	PID (ppm)
Time of flow monitoring (sec)	Flow Reading (l/hr)	Time of gas monitoring (sec)							
0	0.4	0	9.7	0.1	16.3	7	0		
5	0.4	15	9.7	0.1	15.5	5	0		
10		30							
15		60							
20		90							
25		120							
30		180							
40		240							
50		300							
60		360							
90		420							
120		480							
150		540							
180		600							

Stage 1 gas flow - Peak (l/h)	0.4	**Note:** Flow should be recorded at 5 second intervals up to 30 seconds, 10 second intervals to 2 minutes and 30 second intervals up to 3 minutes or until steady-state readings are obtained. Typically, steady state conditions occur within 30 seconds to a minute. The differential pressure reading (in Pa) should also be recorded during this period.
Stage 1 gas flow - Steady State (l/h)	0.4	

STAGE 3 WATER LEVEL OBSERVATION						
	Depth (from datum) to water (DTW): (m)	7.7	Time:		LNAPL Top (from datum) (m):	
	Depth (from datum) to well base (DTB): (m)	7.7	Purge Start:		DNAPL Top (from datum) (m):	
	Hole Purged: Yes / No		Purge End:		Water Observations:	
	Purge Volume: (ltrs)		Post-Purge (DTW) (m)			



Post testing remarks:

Steady state value are taken when there is no change for 1 minute. All measurements taken from the current ground level.

Samples Taken: Yes / No	
Sample Media: Gas/Water	
Gas Cannister Start (mb)	
Gas Cannister End (mb)	
Gas Cannister Duration (mins)	

Depth (from datum)	Sample Ref	Type (EW / G)	Container

Contract Name:	EAF Prroject	Data Collected By:	
Project Manager / Engineer:	James Bloore	Checked:	
Contract Ref:	315531	Page number:	

GAS MONITORING FIELD SHEET

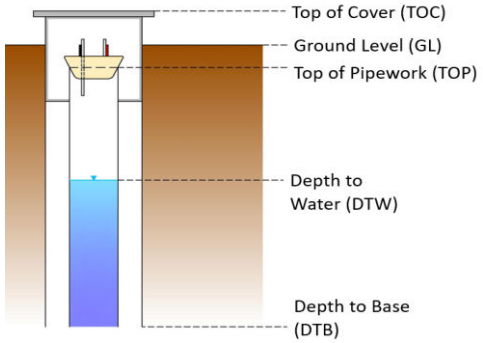
Monitoring Date:	01.08.2024	Measurement datum: TOC / GL / TOP / Other	TOC	Offset to GL (m):			0
Pre-Testing Remarks:		Air Temperature: °C				Device:	G508232
Falling pressure		Weather:		Sunny		Serial Number:	
		Ground Conditions:		Dry		Daily Check:	
		Wind: NONE / LIGHT / MEDIUM / STRONG					
		Tidal State: (if applicable) High / Low / Rising / Falling		Rising			
Exploratory Position ID:	BH315	Monitoring Round Number:		1		Test Number:	
Install Type: SINGLE / DOUBLE		Pipe Ref: 1) Shallow 2) Deep				Pipe Diameter: 19mm/ 40mm / 50mm / Other (mm)	

Time of Monitoring (hh:mm)	Flow readings	Gas readings	Atmospheric Pressure (mb)	Differential Pressure (mb)	Gas tap: SINGLE / DOUBLE	
Time Start (hh:mm)	11:00		1011		Observations (e.g. on-site activities):	
Time End (hh:mm)	14:30					

Stage 1 Flow Readings	**Stage 1** Flow Readings	**Stage 2** Gas Monitoring:	Methane (%/vol)	Carbon Dioxide (%/vol)	Oxygen (%/vol)	Carbon monoxide (ppm)	Hydrogen sulphide (ppm)	LEL (%)	PID (ppm)
Time of flow monitoring (sec)	Flow Reading (l/hr)	Time of gas monitoring (sec)							
0	0.3	0	0.9	0.1	17.8	2	0		
5	0.3	15	0.9	0.1	17.3	2	0		
10		30							
15		60							
20		90							
25		120							
30		180							
40		240							
50		300							
60		360							
90		420							
120		480							
150		540							
180		600							

Stage 1 gas flow - Peak (l/h)	0.3	**Note:** Flow should be recorded at 5 second intervals up to 30 seconds, 10 second intervals to 2 minutes and 30 second intervals up to 3 minutes or until steady-state readings are obtained. Typically, steady state conditions occur within 30 seconds to a minute. The differential pressure reading (in Pa) should also be recorded during this period.
Stage 1 gas flow - Steady State (l/h)	0.3	

STAGE 3 WATER LEVEL OBSERVATION						
	Depth (from datum) to water (DTW): (m)	1.18	Time:		LNAPL Top (from datum) (m):	
	Depth (from datum) to well base (DTB): (m)	12.71	Purge Start:		DNAPL Top (from datum) (m):	
	Hole Purged: Yes / No		Purge End:		Water Observations:	
	Purge Volume: (ltrs)		Post-Purge (DTW) (m)			



Post testing remarks:

Steady state value are taken when there is no change for 1 minute. All measurements taken from the current ground level.

Samples Taken: Yes / No	
Sample Media: Gas/Water	
Gas Cannister Start (mb)	
Gas Cannister End (mb)	
Gas Cannister Duration (mins)	

Depth (from datum)	Sample Ref	Type (EW / G)	Container

Contract Name:	EAF Prroject	Data Collected By:	
Project Manager / Engineer:	James Bloore	Checked:	
Contract Ref:	315531	Page number:	

GAS MONITORING FIELD SHEET

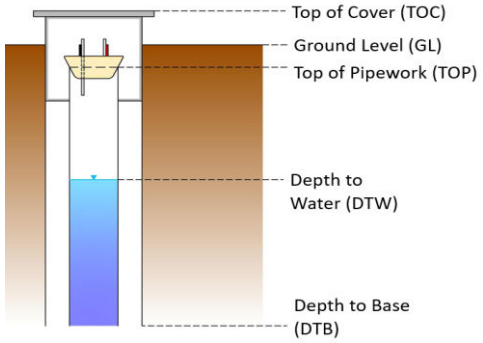
Monitoring Date:	01.08.2024	Measurement datum: TOC / GL / TOP / Other	TOC	Offset to GL (m):	0
Pre-Testing Remarks:		Air Temperature: °C		Device:	G508232
Falling pressure		Weather:	Sunny	Serial Number:	
		Ground Conditions:	Dry	Daily Check:	
		Wind: NONE / LIGHT / MEDIUM / STRONG			
		Tidal State: (if applicable) High / Low / Rising / Falling		Rising	
Exploratory Position ID:	BH317	Monitoring Round Number:	1	Test Number:	
Install Type: SINGLE / DOUBLE		Pipe Ref: 1) Shallow 2) Deep		Pipe Diameter: 19mm/ 40mm / 50mm / Other (mm)	

Time of Monitoring (hh:mm)	Flow readings	Gas readings	Atmospheric Pressure (mb)	Differential Pressure (mb)	Gas tap: SINGLE / DOUBLE	
Time Start (hh:mm)	11:00		1011		Observations (e.g. on-site activities):	
Time End (hh:mm)	14:30					

Stage 1 Flow Readings	**Stage 1** Flow Readings	**Stage 2** Gas Monitoring:	Methane (%/vol)	Carbon Dioxide (%/vol)	Oxygen (%/vol)	Carbon monoxide (ppm)	Hydrogen sulphide (ppm)	LEL (%)	PID (ppm)
Time of flow monitoring (sec)	Flow Reading (l/hr)	Time of gas monitoring (sec)							
0	0.7	0	10.7	0.3	14.5	2	0		
5	0.7	15	9.1	0.3	14.5	2	0		
10		30							
15		60							
20		90							
25		120							
30		180							
40		240							
50		300							
60		360							
90		420							
120		480							
150		540							
180		600							

Stage 1 gas flow - Peak (l/h)	0.7	**Note:** Flow should be recorded at 5 second intervals up to 30 seconds, 10 second intervals to 2 minutes and 30 second intervals up to 3 minutes or until steady-state readings are obtained. Typically, steady state conditions occur within 30 seconds to a minute. The differential pressure reading (in Pa) should also be recorded during this period.
Stage 1 gas flow - Steady State (l/h)	0.7	

STAGE 3 WATER LEVEL OBSERVATION						
	Depth (from datum) to water (DTW): (m)	2.45	Time:		LNAPL Top (from datum) (m):	
	Depth (from datum) to well base (DTB): (m)	16.12	Purge Start:		DNAPL Top (from datum) (m):	
	Hole Purged: Yes / No		Purge End:		Water Observations:	
	Purge Volume: (ltrs)		Post-Purge (DTW) (m)			



Steady state value are taken when there is no change for 1 minute. All measurements taken from the current ground level.

Post testing remarks:

Samples Taken: Yes / No	
Sample Media: Gas/Water	
Gas Cannister Start (mb)	
Gas Cannister End (mb)	
Gas Cannister Duration (mins)	

Depth (from datum)	Sample Ref	Type (EW / G)	Container

Contract Name:	EAF Prroject	Data Collected By:	
Project Manager / Engineer:	James Bloore	Checked:	
Contract Ref:	315531	Page number:	

GAS MONITORING FIELD SHEET

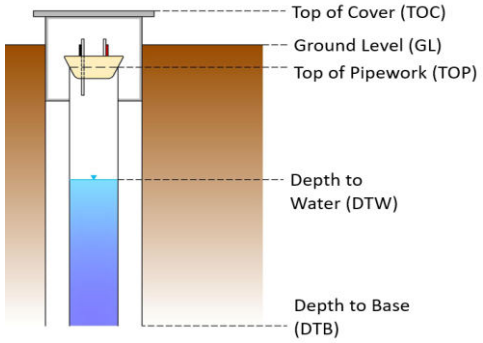
Monitoring Date:	01.08.2024	Measurement datum: TOC / GL / TOP / Other	TOC	Offset to GL (m):		0
Pre-Testing Remarks:		Air Temperature: °C		Device:		G508232
Falling pressure		Weather:	Sunny	Serial Number:		
		Ground Conditions:	Dry	Daily Check:		
		Wind: NONE / LIGHT / MEDIUM / STRONG				
		Tidal State: (if applicable) High / Low / Rising / Falling		Rising		
Exploratory Position ID:	BH322	Monitoring Round Number:	1	Test Number:		
Install Type: SINGLE / DOUBLE		Pipe Ref: 1) Shallow 2) Deep		Pipe Diameter: 19mm/ 40mm / 50mm / Other (mm)		

Time of Monitoring (hh:mm)	Flow readings	Gas readings	Atmospheric Pressure (mb)	Differential Pressure (mb)	Gas tap: SINGLE / DOUBLE	
Time Start (hh:mm)	11:00		1011		Observations (e.g. on-site activities):	
Time End (hh:mm)	14:30					

Stage 1 Flow Readings	**Stage 1** Flow Readings	**Stage 2** Gas Monitoring:	Methane (%/vol)	Carbon Dioxide (%/vol)	Oxygen (%/vol)	Carbon monoxide (ppm)	Hydrogen sulphide (ppm)	LEL (%)	PID (ppm)
Time of flow monitoring (sec)	Flow Reading (l/hr)	Time of gas monitoring (sec)							
0	0.7	0	0.8	0	17.5	2	0		
5	0.7	15	0.6	0	16.8	2	0		
10		30							
15		60							
20		90							
25		120							
30		180							
40		240							
50		300							
60		360							
90		420							
120		480							
150		540							
180		600							

Stage 1 gas flow - Peak (l/h)	0.7	**Note:** Flow should be recorded at 5 second intervals up to 30 seconds, 10 second intervals to 2 minutes and 30 second intervals up to 3 minutes or until steady-state readings are obtained. Typically, steady state conditions occur within 30 seconds to a minute. The differential pressure reading (in Pa) should also be recorded during this period.
Stage 1 gas flow - Steady State (l/h)	0.7	

STAGE 3 WATER LEVEL OBSERVATION						
	Depth (from datum) to water (DTW): (m)	3.24	Time:		LNAPL Top (from datum) (m):	
	Depth (from datum) to well base (DTB): (m)	13.22	Purge Start:		DNAPL Top (from datum) (m):	
	Hole Purged: Yes / No		Purge End:		Water Observations:	
	Purge Volume: (ltrs)		Post-Purge (DTW) (m)			



Post testing remarks:

Steady state value are taken when there is no change for 1 minute. All measurements taken from the current ground level.

Samples Taken: Yes / No	
Sample Media: Gas/Water	
Gas Cannister Start (mb)	
Gas Cannister End (mb)	
Gas Cannister Duration (mins)	

Depth (from datum)	Sample Ref	Type (EW / G)	Container

Contract Name:	EAF Prroject	Data Collected By:	
Project Manager / Engineer:	James Bloore	Checked:	
Contract Ref:	315531	Page number:	

GAS MONITORING FIELD SHEET

Monitoring Date:	01.08.2024	Measurement datum: TOC / GL / TOP / Other	GL	Offset to GL (m):	0

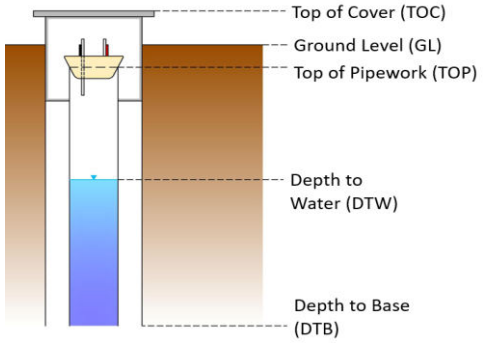
Pre-Testing Remarks:		Air Temperature: °C		Device:	G508232
Falling pressure		Weather:	Sunny	Serial Number:	
		Ground Conditions:	Dry	Daily Check:	
		Wind: NONE / LIGHT / MEDIUM / STRONG			
		Tidal State: (if applicable) High / Low / Rising / Falling		Rising	
Exploratory Position ID:	BH322	Monitoring Round Number:	1	Test Number:	
Install Type: SINGLE / DOUBLE		Pipe Ref: 1) Shallow 2) Deep		Pipe Diameter: 19mm/ 40mm / 50mm / Other (mm)	

Time of Monitoring (hh:mm)	Flow readings	Gas readings	Atmospheric Pressure (mb)	Differential Pressure (mb)	Gas tap: SINGLE / DOUBLE	
Time Start (hh:mm)	11:00		1011		Observations (e.g. on-site activities):	
Time End (hh:mm)	14:30					

Stage 1 Flow Readings	**Stage 1** Flow Readings	**Stage 2** Gas Monitoring:	Methane (%/vol)	Carbon Dioxide (%/vol)	Oxygen (%/vol)	Carbon monoxide (ppm)	Hydrogen sulphide (ppm)	LEL (%)	PID (ppm)
Time of flow monitoring (sec)	Flow Reading (l/hr)	Time of gas monitoring (sec)							
0	0.5	0	0.2	0.1	19.5	2	0		
5	0.5	15	0.2	0.1	19.5	2	0		
10		30							
15		60							
20		90							
25		120							
30		180							
40		240							
50		300							
60		360							
90		420							
120		480							
150		540							
180		600							

Stage 1 gas flow - Peak (l/h)	0.5	**Note:** Flow should be recorded at 5 second intervals up to 30 seconds, 10 second intervals to 2 minutes and 30 second intervals up to 3 minutes or until steady-state readings are obtained. Typically, steady state conditions occur within 30 seconds to a minute. The differential pressure reading (in Pa) should also be recorded during this period.
Stage 1 gas flow - Steady State (l/h)	0.5	

STAGE 3 WATER LEVEL OBSERVATION						
	Depth (from datum) to water (DTW): (m)	1.26	Time:		LNAPL Top (from datum) (m):	
	Depth (from datum) to well base (DTB): (m)	14.74	Purge Start:		DNAPL Top (from datum) (m):	
	Hole Purged: Yes / No		Purge End:		Water Observations:	
	Purge Volume: (ltrs)		Post-Purge (DTW) (m)			



Steady state value are taken when there is no change for 1 minute. All measurements taken from the current ground level.

Post testing remarks:

Samples Taken: Yes / No	
Sample Media: Gas/Water	
Gas Cannister Start (mb)	
Gas Cannister End (mb)	
Gas Cannister Duration (mins)	

Depth (from datum)	Sample Ref	Type (EW / G)	Container

Contract Name:	EAF Prroject	Data Collected By:	
Project Manager / Engineer:	James Bloore	Checked:	
Contract Ref:	315531	Page number:	

GAS MONITORING FIELD SHEET

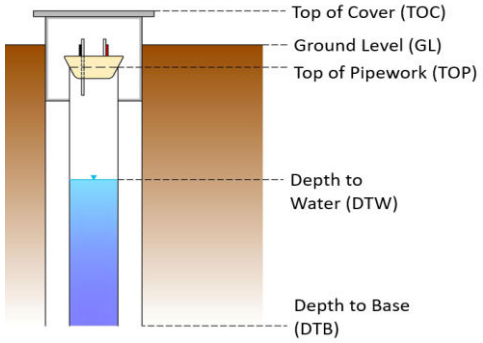
Monitoring Date:	01.08.2024	Measurement datum: TOC / GL / TOP / Other	GL	Offset to GL (m):	0
Pre-Testing Remarks:		Air Temperature: °C		Device:	G508232
Falling pressure		Weather:	Sunny	Serial Number:	
		Ground Conditions:	Dry	Daily Check:	
		Wind: NONE / LIGHT / MEDIUM / STRONG			
		Tidal State: (if applicable) High / Low / Rising / Falling		Falling	
Exploratory Position ID:	BH328	Monitoring Round Number:	1	Test Number:	
Install Type: SINGLE / DOUBLE		Pipe Ref: 1) Shallow 2) Deep		Pipe Diameter: 19mm/ 40mm / 50mm / Other (mm)	

Time of Monitoring (hh:mm)	Flow readings	Gas readings	Atmospheric Pressure (mb)	Differential Pressure (mb)	Gas tap: SINGLE / DOUBLE	
Time Start (hh:mm)	11:00		1011		Observations (e.g. on-site activities):	
Time End (hh:mm)	14:30					

Stage 1 Flow Readings	**Stage 1** Flow Readings	**Stage 2** Gas Monitoring:	Methane (%/vol)	Carbon Dioxide (%/vol)	Oxygen (%/vol)	Carbon monoxide (ppm)	Hydrogen sulphide (ppm)	LEL (%)	PID (ppm)
Time of flow monitoring (sec)	Flow Reading (l/hr)	Time of gas monitoring (sec)							
0	0.2	0	0.1	0.1	19.8	1	0		
5	0.2	15	0.1	0.1	19.8	1	0		
10		30							
15		60							
20		90							
25		120							
30		180							
40		240							
50		300							
60		360							
90		420							
120		480							
150		540							
180		600							

Stage 1 gas flow - Peak (l/h)	0.2	**Note:** Flow should be recorded at 5 second intervals up to 30 seconds, 10 second intervals to 2 minutes and 30 second intervals up to 3 minutes or until steady-state readings are obtained. Typically, steady state conditions occur within 30 seconds to a minute. The differential pressure reading (in Pa) should also be recorded during this period.
Stage 1 gas flow - Steady State (l/h)	0.2	

STAGE 3 WATER LEVEL OBSERVATION						
	Depth (from datum) to water (DTW): (m)	10.6	Time:		LNAPL Top (from datum) (m):	
	Depth (from datum) to well base (DTB): (m)	18	Purge Start:		DNAPL Top (from datum) (m):	
	Hole Purged: Yes / No		Purge End:		Water Observations:	
	Purge Volume: (ltrs)		Post-Purge (DTW) (m)			



Post testing remarks:

Steady state value are taken when there is no change for 1 minute. All measurements taken from the current ground level.

Bent standpipe. Bailer couldn't fit down.

Samples Taken: Yes / No	
Sample Media: Gas/Water	
Gas Cannister Start (mb)	
Gas Cannister End (mb)	
Gas Cannister Duration (mins)	

Depth (from datum)	Sample Ref	Type (EW / G)	Container

Contract Name:	EAF Prroject	Data Collected By:	
Project Manager / Engineer:	James Bloore	Checked:	
Contract Ref:	315531	Page number:	

GAS MONITORING FIELD SHEET

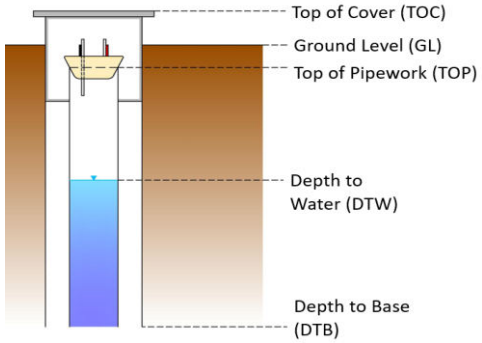
Monitoring Date:	01.08.2024	Measurement datum: TOC / GL / TOP / Other	GL	Offset to GL (m):		0
Pre-Testing Remarks:		Air Temperature: °C		Device:		G508232
		Weather:	Sunny	Serial Number:		
		Ground Conditions:	Dry	Daily Check:		
		Wind: NONE / LIGHT / MEDIUM / STRONG				
		Tidal State: (if applicable) High / Low / Rising / Falling				
Exploratory Position ID:	BH329	Monitoring Round Number:	1	Test Number:		
Install Type: SINGLE / DOUBLE		Pipe Ref: 1) Shallow 2) Deep		Pipe Diameter: 19mm/ 40mm / 50mm / Other (mm)		

Time of Monitoring (hh:mm)	Flow readings	Gas readings	Atmospheric Pressure (mb)	Differential Pressure (mb)	Gas tap: SINGLE / DOUBLE	
Time Start (hh:mm)	11:00		1011		Observations (e.g. on-site activities):	
Time End (hh:mm)	14:30					

Stage 1 Flow Readings	**Stage 1** Flow Readings	**Stage 2** Gas Monitoring:	Methane (%/vol)	Carbon Dioxide (%/vol)	Oxygen (%/vol)	Carbon monoxide (ppm)	Hydrogen sulphide (ppm)	LEL (%)	PID (ppm)
Time of flow monitoring (sec)	Flow Reading (l/hr)	Time of gas monitoring (sec)							
0	0.7	0	3.2	0	17.2	3	0		N/A
5	0.7	15	3.2	0	17.2	3	1		
10		30							
15		60							
20		90							
25		120							
30		180							
40		240							
50		300							
60		360							
90		420							
120		480							
150		540							
180		600							

Stage 1 gas flow - Peak (l/h)	0.7	**Note:** Flow should be recorded at 5 second intervals up to 30 seconds, 10 second intervals to 2 minutes and 30 second intervals up to 3 minutes or until steady-state readings are obtained. Typically, steady state conditions occur within 30 seconds to a minute. The differential pressure reading (in Pa) should also be recorded during this period.
Stage 1 gas flow - Steady State (l/h)	0.7	

STAGE 3 WATER LEVEL OBSERVATION						
	Depth (from datum) to water (DTW): (m)	11.15	Time:		LNAPL Top (from datum) (m):	
	Depth (from datum) to well base (DTB): (m)	12.49	Purge Start:		DNAPL Top (from datum) (m):	
	Hole Purged: Yes / No		Purge End:		Water Observations:	
	Purge Volume: (ltrs)		Post-Purge (DTW) (m)			



Post testing remarks:

Steady state value are taken when there is no change for 1 minute. All measurements taken from the current ground level.

Bent standpipe. Bailer couldn't fit down.

Samples Taken: Yes / No	
Sample Media: Gas/Water	
Gas Cannister Start (mb)	
Gas Cannister End (mb)	
Gas Cannister Duration (mins)	

Depth (from datum)	Sample Ref	Type (EW / G)	Container

Contract Name:	EAF Prroject	Data Collected By:	
Project Manager / Engineer:	James Bloore	Checked:	
Contract Ref:	315531	Page number:	

GAS MONITORING FIELD SHEET

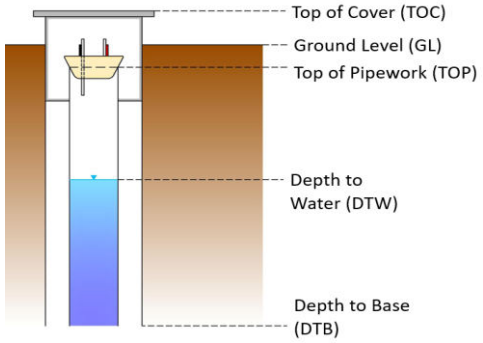
Monitoring Date:	01.08.2024	Measurement datum: TOC / GL / TOP / Other	GL	Offset to GL (m):			0
Pre-Testing Remarks:		Air Temperature: °C				Device:	G508232
Falling pressure		Weather:		Sunny		Serial Number:	
		Ground Conditions:		Dry		Daily Check:	
		Wind: NONE / LIGHT / MEDIUM / STRONG					
		Tidal State: (if applicable) High / Low / Rising / Falling				Rising	
Exploratory Position ID:	BH331	Monitoring Round Number:		1		Test Number:	
Install Type: SINGLE / DOUBLE		Pipe Ref: 1) Shallow 2) Deep				Pipe Diameter: 19mm/ 40mm / 50mm / Other (mm)	

Time of Monitoring (hh:mm)	Flow readings	Gas readings	Atmospheric Pressure (mb)	Differential Pressure (mb)	Gas tap: SINGLE / DOUBLE	
Time Start (hh:mm)	11:00		1011		Observations (e.g. on-site activities):	
Time End (hh:mm)	14:30					

Stage 1 Flow Readings	**Stage 1** Flow Readings	**Stage 2** Gas Monitoring:	Methane (%/vol)	Carbon Dioxide (%/vol)	Oxygen (%/vol)	Carbon monoxide (ppm)	Hydrogen sulphide (ppm)	LEL (%)	PID (ppm)
Time of flow monitoring (sec)	Flow Reading (l/hr)	Time of gas monitoring (sec)							
0	0.6	0	0.3	0.5	18.5	2	0		
5	0.6	15	0.3	0.3	18.5	2	0		
10		30							
15		60							
20		90							
25		120							
30		180							
40		240							
50		300							
60		360							
90		420							
120		480							
150		540							
180		600							

Stage 1 gas flow - Peak (l/h)	0.6	**Note:** Flow should be recorded at 5 second intervals up to 30 seconds, 10 second intervals to 2 minutes and 30 second intervals up to 3 minutes or until steady-state readings are obtained. Typically, steady state conditions occur within 30 seconds to a minute. The differential pressure reading (in Pa) should also be recorded during this period.
Stage 1 gas flow - Steady State (l/h)	0.6	

STAGE 3 WATER LEVEL OBSERVATION						
	Depth (from datum) to water (DTW): (m)	3.37	Time:		LNAPL Top (from datum) (m):	
	Depth (from datum) to well base (DTB): (m)	8.28	Purge Start:		DNAPL Top (from datum) (m):	
	Hole Purged: Yes / No		Purge End:		Water Observations:	
	Purge Volume: (ltrs)		Post-Purge (DTW) (m)			



Post testing remarks:

Steady state value are taken when there is no change for 1 minute. All measurements taken from the current ground level.

Samples Taken: Yes / No	
Sample Media: Gas/Water	
Gas Cannister Start (mb)	
Gas Cannister End (mb)	
Gas Cannister Duration (mins)	

Depth (from datum)	Sample Ref	Type (EW / G)	Container

Contract Name:	EAF Prroject	Data Collected By:	
Project Manager / Engineer:	James Bloore	Checked:	
Contract Ref:	315531	Page number:	

GAS MONITORING FIELD SHEET

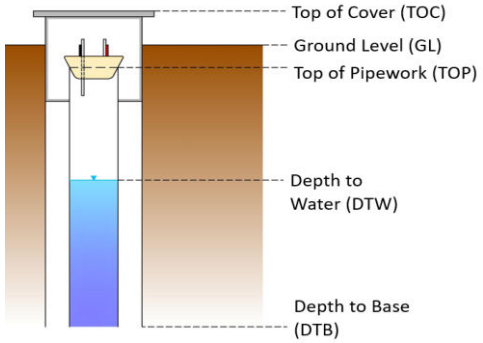
Monitoring Date:	09.08.2024	Measurement datum: TOC / GL / TOP / Other	GL	Offset to GL (m):	0
Pre-Testing Remarks:		Air Temperature: °C		Device:	G508232
Pressure rising		Weather:	Sunny	Serial Number:	
		Ground Conditions:	Dry	Daily Check:	
		Wind: NONE / LIGHT / MEDIUM / STRONG			
		Tidal State: (if applicable) High / Low / Rising / Falling		Falling	
Exploratory Position ID:	BH301	Monitoring Round Number:	2	Test Number:	
Install Type: SINGLE / DOUBLE		Pipe Ref: 1) Shallow 2) Deep		Pipe Diameter: 19mm/ 40mm / 50mm / Other (mm)	

Time of Monitoring (hh:mm)	Flow readings	Gas readings	Atmospheric Pressure (mb)	Differential Pressure (mb)	Gas tap: SINGLE / DOUBLE	
Time Start (hh:mm)	10:00		1014		Observations (e.g. on-site activities):	
Time End (hh:mm)	14:00					

Stage 1 Flow Readings	**Stage 1** Flow Readings	**Stage 2** Gas Monitoring:	Methane (%/vol)	Carbon Dioxide (%/vol)	Oxygen (%/vol)	Carbon monoxide (ppm)	Hydrogen sulphide (ppm)	LEL (%)	PID (ppm)
Time of flow monitoring (sec)	Flow Reading (l/hr)	Time of gas monitoring (sec)							
0	-1.8	0	0.1	0.1	12.8	5	0		N/A
5	-1.8	15	0.1	0.1	10.7	5	0		
10		30							
15		60							
20		90							
25		120							
30		180							
40		240							
50		300							
60		360							
90		420							
120		480							
150		540							
180		600							

Stage 1 gas flow - Peak (l/h)	-1.8	**Note:** Flow should be recorded at 5 second intervals up to 30 seconds, 10 second intervals to 2 minutes and 30 second intervals up to 3 minutes or until steady-state readings are obtained. Typically, steady state conditions occur within 30 seconds to a minute. The differential pressure reading (in Pa) should also be recorded during this period.
Stage 1 gas flow - Steady State (l/h)	-1.8	

STAGE 3 WATER LEVEL OBSERVATION						
	Depth (from datum) to water (DTW): (m)	1.4	Time:		LNAPL Top (from datum) (m):	
	Depth (from datum) to well base (DTB): (m)	21.34	Purge Start:		DNAPL Top (from datum) (m):	
	Hole Purged: Yes / No		Purge End:		Water Observations:	
	Purge Volume: (ltrs)		Post-Purge (DTW) (m)			



Steady state value are taken when there is no change for 1 minute. All measurements taken from the current ground level.

Post testing remarks:

Samples Taken: Yes / No	
Sample Media: Gas/Water	
Gas Cannister Start (mb)	
Gas Cannister End (mb)	
Gas Cannister Duration (mins)	

Depth (from datum)	Sample Ref	Type (EW / G)	Container

Contract Name:	EAF Prroject	Data Collected By:	
Project Manager / Engineer:	James Bloore	Checked:	
Contract Ref:	315531	Page number:	

GAS MONITORING FIELD SHEET

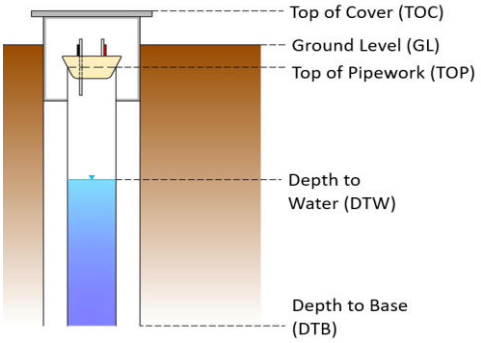
Monitoring Date:	09.08.2024	Measurement datum: TOC / GL / TOP / Other	GL	Offset to GL (m):	0
Pre-Testing Remarks:		Air Temperature: °C		Device:	G508232
Pressure rising		Weather:	Sunny	Serial Number:	
		Ground Conditions:	Dry	Daily Check:	
		Wind: NONE / LIGHT / MEDIUM / STRONG			
		Tidal State: (if applicable) High / Low / Rising / Falling		Falling	
Exploratory Position ID:	BH311	Monitoring Round Number:	2	Test Number:	
Install Type: SINGLE / DOUBLE		Pipe Ref: 1) Shallow 2) Deep		Pipe Diameter: 19mm/ 40mm / 50mm / Other (mm)	

Time of Monitoring (hh:mm)	Flow readings	Gas readings	Atmospheric Pressure (mb)	Differential Pressure (mb)	Gas tap: SINGLE / DOUBLE	
Time Start (hh:mm)	10:00		1014		Observations (e.g. on-site activities):	
Time End (hh:mm)	14:00					

Stage 1 Flow Readings	**Stage 1** Flow Readings	**Stage 2** Gas Monitoring:	Methane (%/vol)	Carbon Dioxide (%/vol)	Oxygen (%/vol)	Carbon monoxide (ppm)	Hydrogen sulphide (ppm)	LEL (%)	PID (ppm)
Time of flow monitoring (sec)	Flow Reading (l/hr)	Time of gas monitoring (sec)							
0	0.4	0	9.1	0.1	16.6	4	0		N/A
5	0.4	15	8.9	0.1	16.2	4	0		
10		30							
15		60							
20		90							
25		120							
30		180							
40		240							
50		300							
60		360							
90		420							
120		480							
150		540							
180		600							

Stage 1 gas flow - Peak (l/h)	0.4	**Note:** Flow should be recorded at 5 second intervals up to 30 seconds, 10 second intervals to 2 minutes and 30 second intervals up to 3 minutes or until steady-state readings are obtained. Typically, steady state conditions occur within 30 seconds to a minute. The differential pressure reading (in Pa) should also be recorded during this period.
Stage 1 gas flow - Steady State (l/h)	0.4	

STAGE 3 WATER LEVEL OBSERVATION						
	Depth (from datum) to water (DTW): (m)	7.7	Time:		LNAPL Top (from datum) (m):	
	Depth (from datum) to well base (DTB): (m)	7.7	Purge Start:		DNAPL Top (from datum) (m):	
	Hole Purged: Yes / No		Purge End:		Water Observations:	
	Purge Volume: (ltrs)		Post-Purge (DTW) (m)			



Steady state value are taken when there is no change for 1 minute. All measurements taken from the current ground level.

Post testing remarks:	Samples Taken: Yes / No	
	Sample Media: Gas/Water	
	Gas Cannister Start (mb)	
	Gas Cannister End (mb)	
	Gas Cannister Duration (mins)	

Depth (from datum)	Sample Ref	Type (EW / G)	Container

RSK	Contract Name:	EAF Prroject	Data Collected By:	
	Project Manager / Engineer:	James Bloore	Checked:	
	Contract Ref:	315531	Page number:	

GAS MONITORING FIELD SHEET

Monitoring Date:	09.08.2024	Measurement datum: TOC / GL / TOP / Other	GL	Offset to GL (m):	0

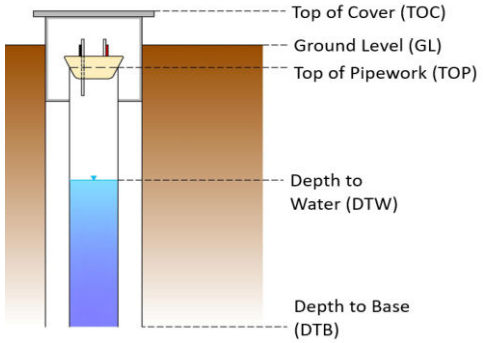
Pre-Testing Remarks:		Air Temperature: °C		Device:	G508232
Pressure rising		Weather:	Sunny	Serial Number:	
		Ground Conditions:	Dry	Daily Check:	
		Wind: NONE / LIGHT / MEDIUM / STRONG			
		Tidal State: (if applicable) High / Low / Rising / Falling		Falling	
Exploratory Position ID:	BH315	Monitoring Round Number:	2	Test Number:	
Install Type: SINGLE / DOUBLE		Pipe Ref: 1) Shallow 2) Deep		Pipe Diameter: 19mm/ 40mm / 50mm / Other (mm)	

Time of Monitoring (hh:mm)	Flow readings	Gas readings	Atmospheric Pressure (mb)	Differential Pressure (mb)	Gas tap: SINGLE / DOUBLE	
Time Start (hh:mm)	10:00		1014		Observations (e.g. on-site activities):	
Time End (hh:mm)	14:00					

Stage 1 Flow Readings	**Stage 1** Flow Readings	**Stage 2** Gas Monitoring:	Methane (%/vol)	Carbon Dioxide (%/vol)	Oxygen (%/vol)	Carbon monoxide (ppm)	Hydrogen sulphide (ppm)	LEL (%)	PID (ppm)
Time of flow monitoring (sec)	Flow Reading (l/hr)	Time of gas monitoring (sec)							
0	0.2	0	0.9	0.1	17.9	2	0		N/A
5	0.2	15	0.9	0.1	17.9	2	0		
10		30							
15		60							
20		90							
25		120							
30		180							
40		240							
50		300							
60		360							
90		420							
120		480							
150		540							
180		600							

Stage 1 gas flow - Peak (l/h)	0.2	**Note:** Flow should be recorded at 5 second intervals up to 30 seconds, 10 second intervals to 2 minutes and 30 second intervals up to 3 minutes or until steady-state readings are obtained. Typically, steady state conditions occur within 30 seconds to a minute. The differential pressure reading (in Pa) should also be recorded during this period.
Stage 1 gas flow - Steady State (l/h)	0.2	

STAGE 3 WATER LEVEL OBSERVATION						
	Depth (from datum) to water (DTW): (m)	1.29	Time:		LNAPL Top (from datum) (m):	
	Depth (from datum) to well base (DTB): (m)	12.7	Purge Start:		DNAPL Top (from datum) (m):	
	Hole Purged: Yes / No		Purge End:		Water Observations:	
	Purge Volume: (ltrs)		Post-Purge (DTW) (m)			



Post testing remarks:

Steady state value are taken when there is no change for 1 minute. All measurements taken from the current ground level.

Samples Taken: Yes / No	
Sample Media: Gas/Water	
Gas Cannister Start (mb)	
Gas Cannister End (mb)	
Gas Cannister Duration (mins)	

Depth (from datum)	Sample Ref	Type (EW / G)	Container

Contract Name:	EAF Prroject	Data Collected By:	
Project Manager / Engineer:	James Bloore	Checked:	
Contract Ref:	315531	Page number:	

GAS MONITORING FIELD SHEET

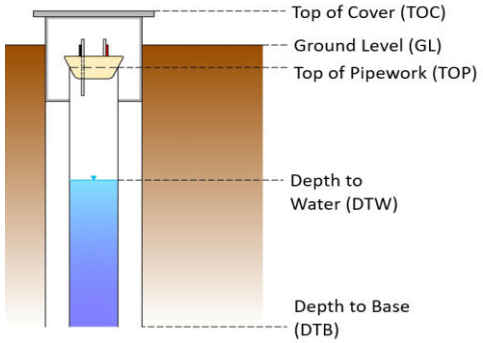
Monitoring Date:	09.08.2024	Measurement datum: TOC / GL / TOP / Other	GL	Offset to GL (m):	0
Pre-Testing Remarks:		Air Temperature: °C		Device:	G508232
Pressure rising		Weather:	Sunny	Serial Number:	
		Ground Conditions:	Dry	Daily Check:	
		Wind: NONE / LIGHT / MEDIUM / STRONG			
		Tidal State: (if applicable) High / Low / Rising / Falling		Falling	
Exploratory Position ID:	BH317	Monitoring Round Number:	2	Test Number:	
Install Type: SINGLE / DOUBLE		Pipe Ref: 1) Shallow 2) Deep		Pipe Diameter: 19mm/ 40mm / 50mm / Other (mm)	

Time of Monitoring (hh:mm)	Flow readings	Gas readings	Atmospheric Pressure (mb)	Differential Pressure (mb)	Gas tap: SINGLE / DOUBLE	
Time Start (hh:mm)	10:00		1014		Observations (e.g. on-site activities):	
Time End (hh:mm)	14:00					

Stage 1 Flow Readings	**Stage 1** Flow Readings	**Stage 2** Gas Monitoring:	Methane (%/vol)	Carbon Dioxide (%/vol)	Oxygen (%/vol)	Carbon monoxide (ppm)	Hydrogen sulphide (ppm)	LEL (%)	PID (ppm)
Time of flow monitoring (sec)	Flow Reading (l/hr)	Time of gas monitoring (sec)							
0	0.7	0	10	0.2	14.9	2	0		N/A
5	0.7	15	9.3	0.2	14.9	2	0		
10		30							
15		60							
20		90							
25		120							
30		180							
40		240							
50		300							
60		360							
90		420							
120		480							
150		540							
180		600							

Stage 1 gas flow - Peak (l/h)	0.7	**Note:** Flow should be recorded at 5 second intervals up to 30 seconds, 10 second intervals to 2 minutes and 30 second intervals up to 3 minutes or until steady-state readings are obtained. Typically, steady state conditions occur within 30 seconds to a minute. The differential pressure reading (in Pa) should also be recorded during this period.
Stage 1 gas flow - Steady State (l/h)	0.7	

STAGE 3 WATER LEVEL OBSERVATION						
	Depth (from datum) to water (DTW): (m)	2.58	Time:		LNAPL Top (from datum) (m):	
	Depth (from datum) to well base (DTB): (m)	16.12	Purge Start:		DNAPL Top (from datum) (m):	
	Hole Purged: Yes / No		Purge End:		Water Observations:	
	Purge Volume: (ltrs)		Post-Purge (DTW) (m)			



Post testing remarks:

Steady state value are taken when there is no change for 1 minute. All measurements taken from the current ground level.

Samples Taken: Yes / No	
Sample Media: Gas/Water	
Gas Cannister Start (mb)	
Gas Cannister End (mb)	
Gas Cannister Duration (mins)	

Depth (from datum)	Sample Ref	Type (EW / G)	Container

Contract Name:	EAF Prroject	Data Collected By:	
Project Manager / Engineer:	James Bloore	Checked:	
Contract Ref:	315531	Page number:	

GAS MONITORING FIELD SHEET

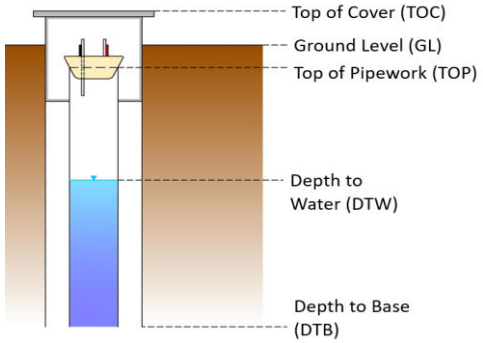
Monitoring Date:	09.08.2024	Measurement datum: TOC / GL / TOP / Other	GL	Offset to GL (m):	0
Pre-Testing Remarks:		Air Temperature: °C		Device:	G508232
Pressure rising		Weather:	Sunny	Serial Number:	
		Ground Conditions:	Dry	Daily Check:	
		Wind: NONE / LIGHT / MEDIUM / STRONG			
		Tidal State: (if applicable) High / Low / Rising / Falling		Falling	
Exploratory Position ID:	BH322	Monitoring Round Number:	2	Test Number:	
Install Type: SINGLE / DOUBLE		Pipe Ref: 1) Shallow 2) Deep		Pipe Diameter: 19mm/ 40mm / 50mm / Other (mm)	

Time of Monitoring (hh:mm)	Flow readings	Gas readings	Atmospheric Pressure (mb)	Differential Pressure (mb)	Gas tap: SINGLE / DOUBLE	
Time Start (hh:mm)	10:00		1014		Observations (e.g. on-site activities):	
Time End (hh:mm)	14:00					

Stage 1 Flow Readings	**Stage 1** Flow Readings	**Stage 2** Gas Monitoring:	Methane (%/vol)	Carbon Dioxide (%/vol)	Oxygen (%/vol)	Carbon monoxide (ppm)	Hydrogen sulphide (ppm)	LEL (%)	PID (ppm)
Time of flow monitoring (sec)	Flow Reading (l/hr)	Time of gas monitoring (sec)							
0	0.6	0	0.5	0	17.8	2	0		N/A
5	0.6	15	0.5	0	17.8	2	0		
10		30							
15		60							
20		90							
25		120							
30		180							
40		240							
50		300							
60		360							
90		420							
120		480							
150		540							
180		600							

Stage 1 gas flow - Peak (l/h)	0.6	**Note:** Flow should be recorded at 5 second intervals up to 30 seconds, 10 second intervals to 2 minutes and 30 second intervals up to 3 minutes or until steady-state readings are obtained. Typically, steady state conditions occur within 30 seconds to a minute. The differential pressure reading (in Pa) should also be recorded during this period.
Stage 1 gas flow - Steady State (l/h)	0.6	

STAGE 3 WATER LEVEL OBSERVATION						
	Depth (from datum) to water (DTW): (m)	3.38	Time:		LNAPL Top (from datum) (m):	
	Depth (from datum) to well base (DTB): (m)	13.2	Purge Start:		DNAPL Top (from datum) (m):	
	Hole Purged: Yes / No		Purge End:		Water Observations:	
	Purge Volume: (ltrs)		Post-Purge (DTW) (m)			



Steady state value are taken when there is no change for 1 minute. All measurements taken from the current ground level.

Post testing remarks:	Samples Taken: Yes / No	
	Sample Media: Gas/Water	
	Gas Cannister Start (mb)	
	Gas Cannister End (mb)	
	Gas Cannister Duration (mins)	

Depth (from datum)	Sample Ref	Type (EW / G)	Container

RSK	Contract Name:	EAF Prroject	Data Collected By:	
	Project Manager / Engineer:	James Bloore	Checked:	
	Contract Ref:	315531	Page number:	

GAS MONITORING FIELD SHEET

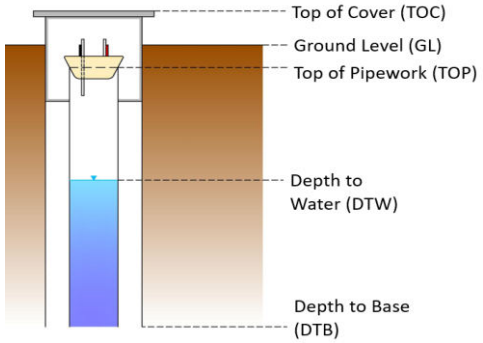
Monitoring Date:	09.08.2024	Measurement datum: TOC / GL / TOP / Other	GL	Offset to GL (m):	0
Pre-Testing Remarks:		Air Temperature: °C		Device:	G508232
Pressure rising		Weather:	Sunny	Serial Number:	
		Ground Conditions:	Dry	Daily Check:	
		Wind: NONE / LIGHT / MEDIUM / STRONG			
		Tidal State: (if applicable) High / Low / Rising / Falling		Falling	
Exploratory Position ID:	BH324	Monitoring Round Number:	2	Test Number:	
Install Type: SINGLE / DOUBLE		Pipe Ref: 1) Shallow 2) Deep		Pipe Diameter: 19mm/ 40mm / 50mm / Other (mm)	

Time of Monitoring (hh:mm)	Flow readings	Gas readings	Atmospheric Pressure (mb)	Differential Pressure (mb)	Gas tap: SINGLE / DOUBLE	
Time Start (hh:mm)	10:00		1014		Observations (e.g. on-site activities):	
Time End (hh:mm)	14:00					

Stage 1 Flow Readings	**Stage 1** Flow Readings	**Stage 2** Gas Monitoring:	Methane (%/vol)	Carbon Dioxide (%/vol)	Oxygen (%/vol)	Carbon monoxide (ppm)	Hydrogen sulphide (ppm)	LEL (%)	PID (ppm)
Time of flow monitoring (sec)	Flow Reading (l/hr)	Time of gas monitoring (sec)							
0	0.4	0	0.2	0.1	19.5	2	0		N/A
5	0.4	15	0.2	0.1	19.5	2	0		
10		30							
15		60							
20		90							
25		120							
30		180							
40		240							
50		300							
60		360							
90		420							
120		480							
150		540							
180		600							

Stage 1 gas flow - Peak (l/h)	0.4	**Note:** Flow should be recorded at 5 second intervals up to 30 seconds, 10 second intervals to 2 minutes and 30 second intervals up to 3 minutes or until steady-state readings are obtained. Typically, steady state conditions occur within 30 seconds to a minute. The differential pressure reading (in Pa) should also be recorded during this period.
Stage 1 gas flow - Steady State (l/h)	0.4	

STAGE 3 WATER LEVEL OBSERVATION						
	Depth (from datum) to water (DTW): (m)	1.43	Time:		LNAPL Top (from datum) (m):	
	Depth (from datum) to well base (DTB): (m)	14.62	Purge Start:		DNAPL Top (from datum) (m):	
	Hole Purged: Yes / No		Purge End:		Water Observations:	
	Purge Volume: (ltrs)		Post-Purge (DTW) (m)			



Steady state value are taken when there is no change for 1 minute. All measurements taken from the current ground level.

Post testing remarks:	Samples Taken: Yes / No	
	Sample Media: Gas/Water	
	Gas Cannister Start (mb)	
	Gas Cannister End (mb)	
	Gas Cannister Duration (mins)	

Depth (from datum)	Sample Ref	Type (EW / G)	Container

RSK	Contract Name:	EAF Prroject	Data Collected By:	
	Project Manager / Engineer:	James Bloore	Checked:	
	Contract Ref:	315531	Page number:	

GAS MONITORING FIELD SHEET

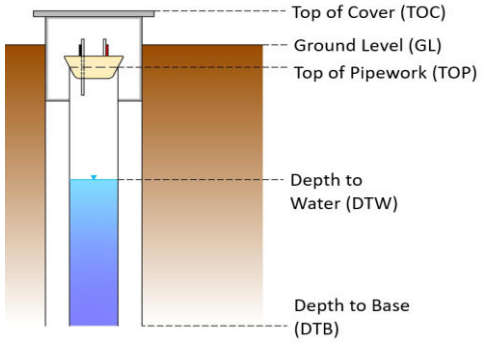
Monitoring Date:	09.08.2024	Measurement datum: TOC / GL / TOP / Other	GL	Offset to GL (m):	0
Pre-Testing Remarks:		Air Temperature: °C		Device:	G508232
Pressure rising		Weather:	Sunny	Serial Number:	
		Ground Conditions:	Dry	Daily Check:	
		Wind: NONE / LIGHT / MEDIUM / STRONG			
		Tidal State: (if applicable) High / Low / Rising / Falling		Falling	
Exploratory Position ID:	BH328	Monitoring Round Number:	2	Test Number:	
Install Type: SINGLE / DOUBLE		Pipe Ref: 1) Shallow 2) Deep		Pipe Diameter: 19mm/ 40mm / 50mm / Other (mm)	

Time of Monitoring (hh:mm)	Flow readings	Gas readings	Atmospheric Pressure (mb)	Differential Pressure (mb)	Gas tap: SINGLE / DOUBLE	
Time Start (hh:mm)	10:00		1014		Observations (e.g. on-site activities):	
Time End (hh:mm)	14:00					

Stage 1 Flow Readings	**Stage 1** Flow Readings	**Stage 2** Gas Monitoring:	Methane (%/vol)	Carbon Dioxide (%/vol)	Oxygen (%/vol)	Carbon monoxide (ppm)	Hydrogen sulphide (ppm)	LEL (%)	PID (ppm)
Time of flow monitoring (sec)	Flow Reading (l/hr)	Time of gas monitoring (sec)							
0	0.2	0	0.1	0	19.5	1	0		N/A
5	0.2	15	0.1	0	19.5	1	0		
10		30							
15		60							
20		90							
25		120							
30		180							
40		240							
50		300							
60		360							
90		420							
120		480							
150		540							
180		600							

Stage 1 gas flow - Peak (l/h)	0.2	**Note:** Flow should be recorded at 5 second intervals up to 30 seconds, 10 second intervals to 2 minutes and 30 second intervals up to 3 minutes or until steady-state readings are obtained. Typically, steady state conditions occur within 30 seconds to a minute. The differential pressure reading (in Pa) should also be recorded during this period.
Stage 1 gas flow - Steady State (l/h)	0.2	

STAGE 3 WATER LEVEL OBSERVATION						
	Depth (from datum) to water (DTW): (m)	10.55	Time:		LNAPL Top (from datum) (m):	
	Depth (from datum) to well base (DTB): (m)	17.95	Purge Start:		DNAPL Top (from datum) (m):	
	Hole Purged: Yes / No		Purge End:		Water Observations:	
	Purge Volume: (ltrs)		Post-Purge (DTW) (m)			



Post testing remarks:

Steady state value are taken when there is no change for 1 minute. All measurements taken from the current ground level.

Samples Taken: Yes / No	
Sample Media: Gas/Water	
Gas Cannister Start (mb)	
Gas Cannister End (mb)	
Gas Cannister Duration (mins)	

Depth (from datum)	Sample Ref	Type (EW / G)	Container

Contract Name:	EAF Prroject	Data Collected By:	
Project Manager / Engineer:	James Bloore	Checked:	
Contract Ref:	315531	Page number:	

GAS MONITORING FIELD SHEET

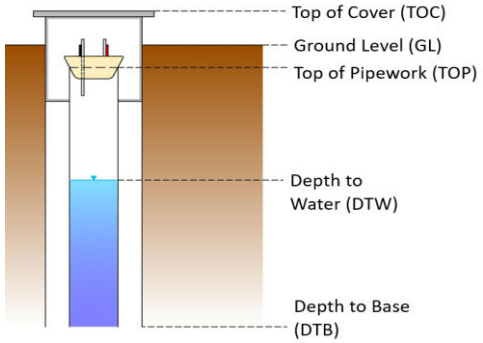
Monitoring Date:	09.08.2024	Measurement datum: TOC / GL / TOP / Other	GL	Offset to GL (m):	0
Pre-Testing Remarks:		Air Temperature: °C		Device:	G508232
Pressure rising		Weather:	Sunny	Serial Number:	
		Ground Conditions:	Dry	Daily Check:	
		Wind: NONE / LIGHT / MEDIUM / STRONG			
		Tidal State: (if applicable) High / Low / Rising / Falling		Falling	
Exploratory Position ID:	BH329	Monitoring Round Number:	2	Test Number:	
Install Type: SINGLE / DOUBLE		Pipe Ref: 1) Shallow 2) Deep		Pipe Diameter: 19mm/ 40mm / 50mm / Other (mm)	

Time of Monitoring (hh:mm)	Flow readings	Gas readings	Atmospheric Pressure (mb)	Differential Pressure (mb)	Gas tap: SINGLE / DOUBLE	
Time Start (hh:mm)	10:00		1014		Observations (e.g. on-site activities):	
Time End (hh:mm)	14:00					

Stage 1 Flow Readings	**Stage 1** Flow Readings	**Stage 2** Gas Monitoring:	Methane (%/vol)	Carbon Dioxide (%/vol)	Oxygen (%/vol)	Carbon monoxide (ppm)	Hydrogen sulphide (ppm)	LEL (%)	PID (ppm)
Time of flow monitoring (sec)	Flow Reading (l/hr)	Time of gas monitoring (sec)							
0	0.4	0	3	0	17.4	2	0		N/A
5	0.4	15	3.2	0	17.4	2	0		
10		30							
15		60							
20		90							
25		120							
30		180							
40		240							
50		300							
60		360							
90		420							
120		480							
150		540							
180		600							

Stage 1 gas flow - Peak (l/h)	0.4	**Note:** Flow should be recorded at 5 second intervals up to 30 seconds, 10 second intervals to 2 minutes and 30 second intervals up to 3 minutes or until steady-state readings are obtained. Typically, steady state conditions occur within 30 seconds to a minute. The differential pressure reading (in Pa) should also be recorded during this period.
Stage 1 gas flow - Steady State (l/h)	0.4	

STAGE 3 WATER LEVEL OBSERVATION						
	Depth (from datum) to water (DTW): (m)	11.18	Time:		LNAPL Top (from datum) (m):	
	Depth (from datum) to well base (DTB): (m)	12.45	Purge Start:		DNAPL Top (from datum) (m):	
	Hole Purged: Yes / No		Purge End:		Water Observations:	
	Purge Volume: (ltrs)		Post-Purge (DTW) (m)			



Post testing remarks:

Steady state value are taken when there is no change for 1 minute. All measurements taken from the current ground level.

Samples Taken: Yes / No	
Sample Media: Gas/Water	
Gas Cannister Start (mb)	
Gas Cannister End (mb)	
Gas Cannister Duration (mins)	

Depth (from datum)	Sample Ref	Type (EW / G)	Container

Contract Name:	EAF Prroject	Data Collected By:	
Project Manager / Engineer:	James Bloore	Checked:	
Contract Ref:	315531	Page number:	

GAS MONITORING FIELD SHEET

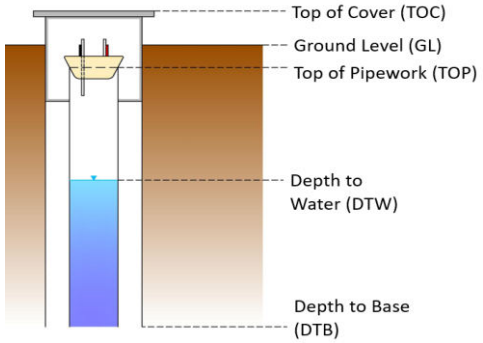
Monitoring Date:	09.08.2024	Measurement datum: TOC / GL / TOP / Other	GL	Offset to GL (m):	0
Pre-Testing Remarks:		Air Temperature: °C		Device:	G508232
Pressure rising		Weather:	Sunny	Serial Number:	
		Ground Conditions:	Dry	Daily Check:	
		Wind: NONE / LIGHT / MEDIUM / STRONG			
		Tidal State: (if applicable) High / Low / Rising / Falling		Falling	
Exploratory Position ID:	BH331	Monitoring Round Number:	2	Test Number:	
Install Type: SINGLE / DOUBLE		Pipe Ref: 1) Shallow 2) Deep		Pipe Diameter: 19mm/ 40mm / 50mm / Other (mm)	

Time of Monitoring (hh:mm)	Flow readings	Gas readings	Atmospheric Pressure (mb)	Differential Pressure (mb)	Gas tap: SINGLE / DOUBLE	
Time Start (hh:mm)	10:00		1014		Observations (e.g. on-site activities):	
Time End (hh:mm)	14:00					

Stage 1 Flow Readings	**Stage 1** Flow Readings	**Stage 2** Gas Monitoring:	Methane (%/vol)	Carbon Dioxide (%/vol)	Oxygen (%/vol)	Carbon monoxide (ppm)	Hydrogen sulphide (ppm)	LEL (%)	PID (ppm)
Time of flow monitoring (sec)	Flow Reading (l/hr)	Time of gas monitoring (sec)							
0	0.5	0	0.2	0.3	18.5	2	0		N/A
5	0.5	15	0.3	0.3	18.5	2	0		
10		30							
15		60							
20		90							
25		120							
30		180							
40		240							
50		300							
60		360							
90		420							
120		480							
150		540							
180		600							

Stage 1 gas flow - Peak (l/h)	0.5	**Note:** Flow should be recorded at 5 second intervals up to 30 seconds, 10 second intervals to 2 minutes and 30 second intervals up to 3 minutes or until steady-state readings are obtained. Typically, steady state conditions occur within 30 seconds to a minute. The differential pressure reading (in Pa) should also be recorded during this period.
Stage 1 gas flow - Steady State (l/h)	0.5	

STAGE 3 WATER LEVEL OBSERVATION						
	Depth (from datum) to water (DTW): (m)	3.49	Time:		LNAPL Top (from datum) (m):	
	Depth (from datum) to well base (DTB): (m)	8.13	Purge Start:		DNAPL Top (from datum) (m):	
	Hole Purged: Yes / No		Purge End:		Water Observations:	
	Purge Volume: (ltrs)		Post-Purge (DTW) (m)			



Post testing remarks:

Steady state value are taken when there is no change for 1 minute. All measurements taken from the current ground level.

Samples Taken: Yes / No	
Sample Media: Gas/Water	
Gas Cannister Start (mb)	
Gas Cannister End (mb)	
Gas Cannister Duration (mins)	

Depth (from datum)	Sample Ref	Type (EW / G)	Container

RSK	Contract Name:	EAF Prroject	Data Collected By:
	Project Manager / Engineer:	James Bloore	Checked:
	Contract Ref:	315531	Page number:

GAS MONITORING FIELD SHEET

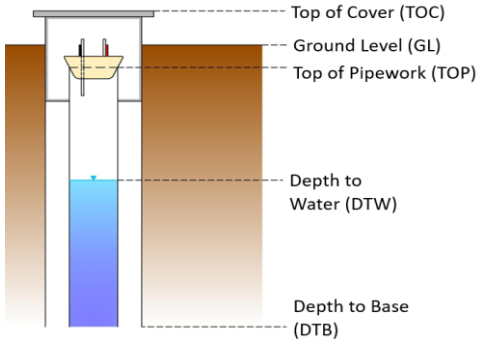
Monitoring Date:	30.09.2024	Measurement datum: TOC / GL / TOP / Other	GL	Offset to GL (m):		0
Pre-Testing Remarks:		Air Temperature: °C		Device:		
Falling pressure		Weather:	OVERCAST	Serial Number:		G508232
		Ground Conditions:	WET	Daily Check:		
		Wind: NONE / LIGHT / MEDIUM / STRONG				
		Tidal State: (if applicable) High / Low / Rising / Falling		Falling		
Exploratory Position ID:	BH301	Monitoring Round Number:	3	Test Number:		
Install Type: SINGLE / DOUBLE		Pipe Ref: 1) Shallow 2) Deep	1	Pipe Diameter: 19mm/ 40mm / 50mm / Other (mm)		

Time of Monitoring (hh:mm)	Flow readings	Gas readings	Atmospheric Pressure (mb)	Differential Pressure (mb)	Gas tap: SINGLE / DOUBLE	
Time Start (hh:mm)			986		Observations (e.g. on-site activities):	
Time End (hh:mm)						

Stage 1 Flow Readings	**Stage 1** Flow Readings	**Stage 2** Gas Monitoring:	Methane (%/vol)	Carbon Dioxide (%/vol)	Oxygen (%/vol)	Carbon monoxide (ppm)	Hydrogen sulphide (ppm)	LEL (%)	PID (ppm)
Time of flow monitoring (sec)	Flow Reading (l/hr)	Time of gas monitoring (sec)							
0		0	0	0.1	18.3	3	0	0	
5		15							
10		30							
15		60							
20		90							
25		120							
30		180							
40		240							
50		300							
60		360							
90		420							
120		480							
150		540							
180		600							

Stage 1 gas flow - Peak (l/h)	0	**Note:** Flow should be recorded at 5 second intervals up to 30 seconds, 10 second intervals to 2 minutes and 30 second intervals up to 3 minutes or until steady-state readings are obtained. Typically, steady state conditions occur within 30 seconds to a minute. The differential pressure reading (in Pa) should also be recorded during this period.
Stage 1 gas flow - Steady State (l/h)	0	

STAGE 3 WATER LEVEL OBSERVATION						
	Depth (from datum) to water (DTW): (m)	1.4	Time:		LNAPL Top (from datum) (m):	
	Depth (from datum) to well base (DTB): (m)	21.34	Purge Start:		DNAPL Top (from datum) (m):	
	Hole Purged: Yes / No		Purge End:		Water Observations:	
	Purge Volume: (ltrs)		Post-Purge (DTW) (m)			



Post testing remarks:	Samples Taken: Yes / No	
	Sample Media: Gas/Water	
	Gas Cannister Start (mb)	
	Gas Cannister End (mb)	
	Gas Cannister Duration (mins)	

Depth (from datum)	Sample Ref	Type (EW / G)	Container

RSK	Contract Name:	TATA Steel	Data Collected By:	James Bloor
	Project Manager / Engineer:	James Bloor	Checked:	
	Contract Ref:	2072340	Page number:	

GAS MONITORING FIELD SHEET

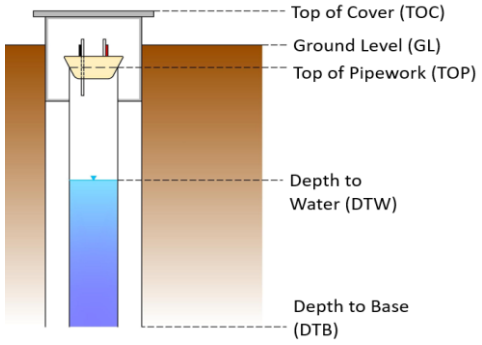
Monitoring Date:	30.09.2024	Measurement datum: TOC / GL / TOP / Other	GL	Offset to GL (m):	0	
Pre-Testing Remarks:		Air Temperature: °C		Device:		
Falling pressure		Weather:	OVERCAST	Serial Number:	G508232	
		Ground Conditions:	WET	Daily Check:		
		Wind: NONE / LIGHT / MEDIUM / STRONG				
		Tidal State: (if applicable) High / Low / Rising / Falling		Falling		
Exploratory Position ID:	BH311	Monitoring Round Number:	3	Test Number:		
Install Type: SINGLE / DOUBLE		Pipe Ref: 1) Shallow 2) Deep	1	Pipe Diameter: 19mm/ 40mm / 50mm / Other (mm)		

Time of Monitoring (hh:mm)	Flow readings	Gas readings	Atmospheric Pressure (mb)	Differential Pressure (mb)	Gas tap: SINGLE / DOUBLE	
Time Start (hh:mm)			986		Observations (e.g. on-site activities):	
Time End (hh:mm)						

Stage 1 Flow Readings	**Stage 1** Flow Readings	**Stage 2** Gas Monitoring:	Methane (%/vol)	Carbon Dioxide (%/vol)	Oxygen (%/vol)	Carbon monoxide (ppm)	Hydrogen sulphide (ppm)	LEL (%)	PID (ppm)
Time of flow monitoring (sec)	Flow Reading (l/hr)	Time of gas monitoring (sec)							
0		0	0	0.1	18.2	2	0	0	
5		15							
10		30							
15		60							
20		90							
25		120							
30		180							
40		240							
50		300							
60		360							
90		420							
120		480							
150		540							
180		600							

Stage 1 gas flow - Peak (l/h)	0	**Note:** Flow should be recorded at 5 second intervals up to 30 seconds, 10 second intervals to 2 minutes and 30 second intervals up to 3 minutes or until steady-state readings are obtained. Typically, steady state conditions occur within 30 seconds to a minute. The differential pressure reading (in Pa) should also be recorded during this period.
Stage 1 gas flow - Steady State (l/h)	0	

STAGE 3 WATER LEVEL OBSERVATION						
	Depth (from datum) to water (DTW): (m)	7.32	Time:		LNAPL Top (from datum) (m):	
	Depth (from datum) to well base (DTB): (m)	7.51	Purge Start:		DNAPL Top (from datum) (m):	
	Hole Purged: Yes / No		Purge End:		Water Observations:	
	Purge Volume: (ltrs)		Post-Purge (DTW) (m)			



Post testing remarks:	Samples Taken: Yes / No	
	Sample Media: Gas/Water	
	Gas Cannister Start (mb)	
	Gas Cannister End (mb)	
	Gas Cannister Duration (mins)	

Depth (from datum)	Sample Ref	Type (EW / G)	Container

RSK	Contract Name:	TATA Steel	Data Collected By:	James Bloor
	Project Manager / Engineer:	James Bloor	Checked:	
	Contract Ref:	2072340	Page number:	

GAS MONITORING FIELD SHEET

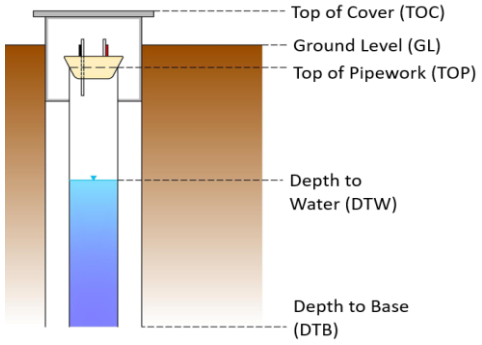
Monitoring Date:	30.09.2024	Measurement datum: TOC / GL / TOP / Other	GL	Offset to GL (m):		0
Pre-Testing Remarks:		Air Temperature: °C		Device:		
Steady state value are taken when there is no chang		Weather:	OVERCAST	Serial Number:		G508232
		Ground Conditions:	WET	Daily Check:		
		Wind: NONE / LIGHT / MEDIUM / STRONG				
		Tidal State: (if applicable) High / Low / Rising / Falling				
Exploratory Position ID:	BH315	Monitoring Round Number:	3	Test Number:		
Install Type: SINGLE / DOUBLE		Pipe Ref: 1) Shallow 2) Deep	1	Pipe Diameter: 19mm/ 40mm / 50mm / Other (mm)		

Time of Monitoring (hh:mm)	Flow readings	Gas readings	Atmospheric Pressure (mb)	Differential Pressure (mb)	Gas tap: SINGLE / DOUBLE	
Time Start (hh:mm)			986		Observations (e.g. on-site activities):	
Time End (hh:mm)						

Stage 1 Flow Readings	**Stage 1** Flow Readings	**Stage 2** Gas Monitoring:	Methane (%/vol)	Carbon Dioxide (%/vol)	Oxygen (%/vol)	Carbon monoxide (ppm)	Hydrogen sulphide (ppm)	LEL (%)	PID (ppm)
Time of flow monitoring (sec)	Flow Reading (l/hr)	Time of gas monitoring (sec)							
0		0	0.4	0.01	19.9	0	0	0	
5		15							
10		30							
15		60							
20		90							
25		120							
30		180							
40		240							
50		300							
60		360							
90		420							
120		480							
150		540							
180		600							

Stage 1 gas flow - Peak (l/h)	0	**Note:** Flow should be recorded at 5 second intervals up to 30 seconds, 10 second intervals to 2 minutes and 30 second intervals up to 3 minutes or until steady-state readings are obtained. Typically, steady state conditions occur within 30 seconds to a minute. The differential pressure reading (in Pa) should also be recorded during this period.
Stage 1 gas flow - Steady State (l/h)	0	

STAGE 3 WATER LEVEL OBSERVATION						
	Depth (from datum) to water (DTW): (m)	0.07	Time:		LNAPL Top (from datum) (m):	
	Depth (from datum) to well base (DTB): (m)	26.94	Purge Start:		DNAPL Top (from datum) (m):	
	Hole Purged: Yes / No		Purge End:		Water Observations:	
	Purge Volume: (ltrs)		Post-Purge (DTW) (m)			



Post testing remarks:	Samples Taken: Yes / No	
	Sample Media: Gas/Water	
	Gas Cannister Start (mb)	
	Gas Cannister End (mb)	
	Gas Cannister Duration (mins)	

Depth (from datum)	Sample Ref	Type (EW / G)	Container

RSK	Contract Name:	TATA Steel	Data Collected By:	James Bloor
	Project Manager / Engineer:	James Bloor	Checked:	
	Contract Ref:	2072340	Page number:	

GAS MONITORING FIELD SHEET

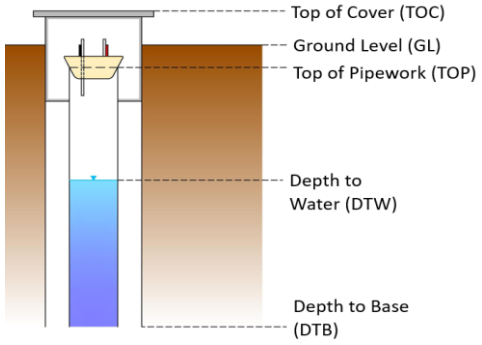
Monitoring Date:	30.09.2024	Measurement datum: TOC / GL / TOP / Other	GL	Offset to GL (m):	0	
Pre-Testing Remarks:		Air Temperature: °C		Device:		
Falling pressure		Weather:	OVERCAST	Serial Number:	G508232	
		Ground Conditions:	WET	Daily Check:		
		Wind: NONE / LIGHT / MEDIUM / STRONG				
		Tidal State: (if applicable) High / Low / Rising / Falling		Falling		
Exploratory Position ID:	BH317	Monitoring Round Number:	3	Test Number:		
Install Type: SINGLE / DOUBLE		Pipe Ref: 1) Shallow 2) Deep	1	Pipe Diameter: 19mm/ 40mm / 50mm / Other (mm)		

Time of Monitoring (hh:mm)	Flow readings	Gas readings	Atmospheric Pressure (mb)	Differential Pressure (mb)	Gas tap: SINGLE / DOUBLE	
Time Start (hh:mm)			986		Observations (e.g. on-site activities):	
Time End (hh:mm)						

Stage 1 Flow Readings	**Stage 1** Flow Readings	**Stage 2** Gas Monitoring:	Methane (%/vol)	Carbon Dioxide (%/vol)	Oxygen (%/vol)	Carbon monoxide (ppm)	Hydrogen sulphide (ppm)	LEL (%)	PID (ppm)
Time of flow monitoring (sec)	Flow Reading (l/hr)	Time of gas monitoring (sec)							
0		0	6.2	0.2	15.8	1	0	0	
5		15							
10		30							
15		60							
20		90							
25		120							
30		180							
40		240							
50		300							
60		360							
90		420							
120		480							
150		540							
180		600							

Stage 1 gas flow - Peak (l/h)	0	**Note:** Flow should be recorded at 5 second intervals up to 30 seconds, 10 second intervals to 2 minutes and 30 second intervals up to 3 minutes or until steady-state readings are obtained. Typically, steady state conditions occur within 30 seconds to a minute. The differential pressure reading (in Pa) should also be recorded during this period.
Stage 1 gas flow - Steady State (l/h)	0	

STAGE 3 WATER LEVEL OBSERVATION						
	Depth (from datum) to water (DTW): (m)	2.15	Time:		LNAPL Top (from datum) (m):	
	Depth (from datum) to well base (DTB): (m)	16.09	Purge Start:		DNAPL Top (from datum) (m):	
	Hole Purged: Yes / No		Purge End:		Water Observations:	
	Purge Volume: (ltrs)		Post-Purge (DTW) (m)			



Post testing remarks:	Samples Taken: Yes / No	
	Sample Media: Gas/Water	
	Gas Cannister Start (mb)	
	Gas Cannister End (mb)	
	Gas Cannister Duration (mins)	

Depth (from datum)	Sample Ref	Type (EW / G)	Container

RSK	Contract Name:	TATA Steel	Data Collected By:	James Bloor
	Project Manager / Engineer:	James Bloor	Checked:	
	Contract Ref:	2072340	Page number:	

GAS MONITORING FIELD SHEET

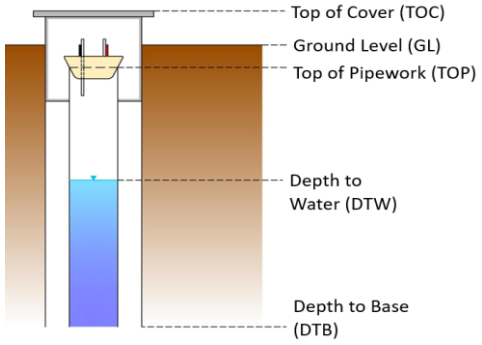
Monitoring Date:	30.09.2024	Measurement datum: TOC / GL / TOP / Other	GL	Offset to GL (m):	0		
Pre-Testing Remarks:		Air Temperature: °C		Device:			
Steady state value are taken when there is no chang		Weather:	OVERCAST	Serial Number:	G508232		
		Ground Conditions:	WET	Daily Check:			
		Wind: NONE / LIGHT / MEDIUM / STRONG					
		Tidal State: (if applicable) High / Low / Rising / Falling					
Exploratory Position ID:	BH322	Monitoring Round Number:	3	Test Number:			
Install Type: SINGLE / DOUBLE		Pipe Ref: 1) Shallow 2) Deep	1	Pipe Diameter: 19mm/ 40mm / 50mm / Other (mm)			

Time of Monitoring (hh:mm)	Flow readings	Gas readings	Atmospheric Pressure (mb)	Differential Pressure (mb)	Gas tap: SINGLE / DOUBLE	
Time Start (hh:mm)			986		Observations (e.g. on-site activities):	
Time End (hh:mm)						

Stage 1 Flow Readings	**Stage 1** Flow Readings	**Stage 2** Gas Monitoring:	Methane (%/vol)	Carbon Dioxide (%/vol)	Oxygen (%/vol)	Carbon monoxide (ppm)	Hydrogen sulphide (ppm)	LEL (%)	PID (ppm)
Time of flow monitoring (sec)	Flow Reading (l/hr)	Time of gas monitoring (sec)							
0		0	0.1	0	20.1	1	0	0	
5		15							
10		30							
15		60							
20		90							
25		120							
30		180							
40		240							
50		300							
60		360							
90		420							
120		480							
150		540							
180		600							

Stage 1 gas flow - Peak (l/h)	0	**Note:** Flow should be recorded at 5 second intervals up to 30 seconds, 10 second intervals to 2 minutes and 30 second intervals up to 3 minutes or until steady-state readings are obtained. Typically, steady state conditions occur within 30 seconds to a minute. The differential pressure reading (in Pa) should also be recorded during this period.
Stage 1 gas flow - Steady State (l/h)	0	

STAGE 3 WATER LEVEL OBSERVATION						
	Depth (from datum) to water (DTW): (m)	3.38	Time:		LNAPL Top (from datum) (m):	
	Depth (from datum) to well base (DTB): (m)	13.2	Purge Start:		DNAPL Top (from datum) (m):	
	Hole Purged: Yes / No		Purge End:		Water Observations:	
	Purge Volume: (ltrs)		Post-Purge (DTW) (m)			



Post testing remarks:	Samples Taken: Yes / No	
	Sample Media: Gas/Water	
	Gas Cannister Start (mb)	
	Gas Cannister End (mb)	
	Gas Cannister Duration (mins)	

Depth (from datum)	Sample Ref	Type (EW / G)	Container

RSK	Contract Name:	TATA Steel	Data Collected By:	James Bloor
	Project Manager / Engineer:	James Bloor	Checked:	
	Contract Ref:	2072340	Page number:	

GAS MONITORING FIELD SHEET

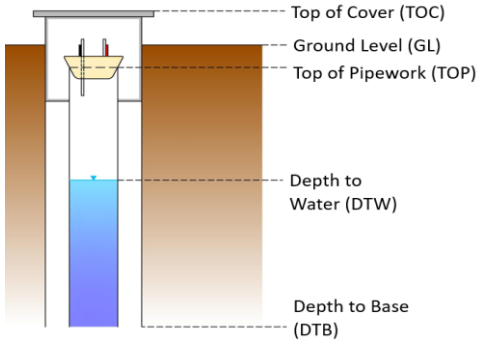
Monitoring Date:	30.09.2024	Measurement datum: TOC / GL / TOP / Other	GL	Offset to GL (m):	0	
Pre-Testing Remarks:		Air Temperature: °C		Device:		
Falling pressure		Weather:	OVERCAST	Serial Number:	G508232	
		Ground Conditions:	WET	Daily Check:		
		Wind: NONE / LIGHT / MEDIUM / STRONG				
		Tidal State: (if applicable) High / Low / Rising / Falling		Rising		
Exploratory Position ID:	BH324	Monitoring Round Number:	3	Test Number:		
Install Type: SINGLE / DOUBLE		Pipe Ref: 1) Shallow 2) Deep	1	Pipe Diameter: 19mm/ 40mm / 50mm / Other (mm)		

Time of Monitoring (hh:mm)	Flow readings	Gas readings	Atmospheric Pressure (mb)	Differential Pressure (mb)	Gas tap: SINGLE / DOUBLE	
Time Start (hh:mm)			986		Observations (e.g. on-site activities):	
Time End (hh:mm)						

Stage 1 Flow Readings	**Stage 1** Flow Readings	**Stage 2** Gas Monitoring:	Methane (%/vol)	Carbon Dioxide (%/vol)	Oxygen (%/vol)	Carbon monoxide (ppm)	Hydrogen sulphide (ppm)	LEL (%)	PID (ppm)
Time of flow monitoring (sec)	Flow Reading (l/hr)	Time of gas monitoring (sec)							
0		0	0	0.1	20.1	0	0	0	
5		15							
10		30							
15		60							
20		90							
25		120							
30		180							
40		240							
50		300							
60		360							
90		420							
120		480							
150		540							
180		600							

Stage 1 gas flow - Peak (l/h)	0	**Note:** Flow should be recorded at 5 second intervals up to 30 seconds, 10 second intervals to 2 minutes and 30 second intervals up to 3 minutes or until steady-state readings are obtained. Typically, steady state conditions occur within 30 seconds to a minute. The differential pressure reading (in Pa) should also be recorded during this period.
Stage 1 gas flow - Steady State (l/h)	0	

STAGE 3 WATER LEVEL OBSERVATION						
	Depth (from datum) to water (DTW): (m)	1.43	Time:		LNAPL Top (from datum) (m):	
	Depth (from datum) to well base (DTB): (m)	14.62	Purge Start:		DNAPL Top (from datum) (m):	
	Hole Purged: Yes / No		Purge End:		Water Observations:	
	Purge Volume: (ltrs)		Post-Purge (DTW) (m)			



Post testing remarks:	Samples Taken: Yes / No	
	Sample Media: Gas/Water	
	Gas Cannister Start (mb)	
	Gas Cannister End (mb)	
	Gas Cannister Duration (mins)	

Depth (from datum)	Sample Ref	Type (EW / G)	Container

RSK	Contract Name:	TATA Steel	Data Collected By:	James Bloor
	Project Manager / Engineer:	James Bloor	Checked:	
	Contract Ref:	2072340	Page number:	

GAS MONITORING FIELD SHEET

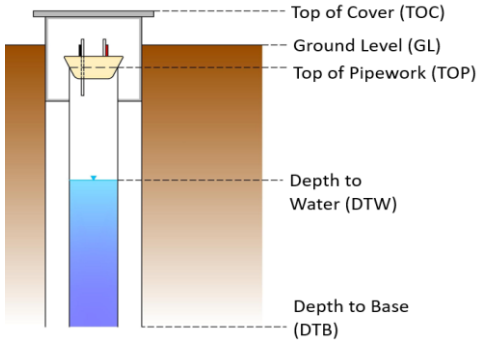
Monitoring Date:	30.09.2024	Measurement datum: TOC / GL / TOP / Other	GL	Offset to GL (m):		0
Pre-Testing Remarks:		Air Temperature: °C		Device:		
Falling pressure		Weather:	OVERCAST	Serial Number:		G508232
		Ground Conditions:	WET	Daily Check:		
		Wind: NONE / LIGHT / MEDIUM / STRONG				
		Tidal State: (if applicable) High / Low / Rising / Falling		Rising		
Exploratory Position ID:	BH329	Monitoring Round Number:	3	Test Number:		
Install Type: SINGLE / DOUBLE		Pipe Ref: 1) Shallow 2) Deep	1	Pipe Diameter: 19mm/ 40mm / 50mm / Other (mm)		

Time of Monitoring (hh:mm)	Flow readings	Gas readings	Atmospheric Pressure (mb)	Differential Pressure (mb)	Gas tap: SINGLE / DOUBLE	
Time Start (hh:mm)			986		Observations (e.g. on-site activities):	
Time End (hh:mm)						

Stage 1 Flow Readings	**Stage 1** Flow Readings	**Stage 2** Gas Monitoring:	Methane (%/vol)	Carbon Dioxide (%/vol)	Oxygen (%/vol)	Carbon monoxide (ppm)	Hydrogen sulphide (ppm)	LEL (%)	PID (ppm)
Time of flow monitoring (sec)	Flow Reading (l/hr)	Time of gas monitoring (sec)							
0		0	0	0.1	20.3	0	0	0	
5		15							
10		30							
15		60							
20		90							
25		120							
30		180							
40		240							
50		300							
60		360							
90		420							
120		480							
150		540							
180		600							

Stage 1 gas flow - Peak (l/h)	0	**Note:** Flow should be recorded at 5 second intervals up to 30 seconds, 10 second intervals to 2 minutes and 30 second intervals up to 3 minutes or until steady-state readings are obtained. Typically, steady state conditions occur within 30 seconds to a minute. The differential pressure reading (in Pa) should also be recorded during this period.
Stage 1 gas flow - Steady State (l/h)	0	

STAGE 3 WATER LEVEL OBSERVATION						
	Depth (from datum) to water (DTW): (m)	10.3	Time:		LNAPL Top (from datum) (m):	
	Depth (from datum) to well base (DTB): (m)	17.1	Purge Start:		DNAPL Top (from datum) (m):	
	Hole Purged: Yes / No		Purge End:		Water Observations:	
	Purge Volume: (ltrs)		Post-Purge (DTW) (m)			



Post testing remarks:	Samples Taken: Yes / No	
	Sample Media: Gas/Water	
	Gas Cannister Start (mb)	
	Gas Cannister End (mb)	
	Gas Cannister Duration (mins)	

Depth (from datum)	Sample Ref	Type (EW / G)	Container

RSK	Contract Name:	TATA Steel	Data Collected By:	James Bloor
	Project Manager / Engineer:	James Bloor	Checked:	
	Contract Ref:	2072340	Page number:	

GAS MONITORING FIELD SHEET

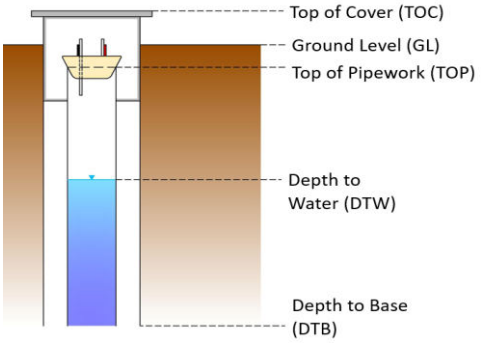
Monitoring Date:	30.09.2024	Measurement datum: TOC / GL / TOP / Other	GL	Offset to GL (m):	0
Pre-Testing Remarks:		Air Temperature: °C		Device:	G508232
Falling pressure		Weather:	OVERCAST	Serial Number:	G508232
		Ground Conditions:	WET	Daily Check:	
		Wind: NONE / LIGHT / MEDIUM / STRONG			
		Tidal State: (if applicable) High / Low / Rising / Falling		Rising	
Exploratory Position ID:	BH328	Monitoring Round Number:	3	Test Number:	
Install Type: SINGLE / DOUBLE		Pipe Ref: 1) Shallow 2) Deep		Pipe Diameter: 19mm/ 40mm / 50mm / Other (mm)	

Time of Monitoring (hh:mm)	Flow readings	Gas readings	Atmospheric Pressure (mb)	Differential Pressure (mb)	Gas tap: SINGLE / DOUBLE	
Time Start (hh:mm)	10:00		867		Observations (e.g. on-site activities):	
Time End (hh:mm)	14:00					

Stage 1 Flow Readings	**Stage 1** Flow Readings	**Stage 2** Gas Monitoring:	Methane (%/vol)	Carbon Dioxide (%/vol)	Oxygen (%/vol)	Carbon monoxide (ppm)	Hydrogen sulphide (ppm)	LEL (%)	PID (ppm)
Time of flow monitoring (sec)	Flow Reading (l/hr)	Time of gas monitoring (sec)							
0	0.2	0	0	0.1	20.3	0	0		N/A
5	0.2	15	0	0.1	20.3	0	0		
10		30							
15		60							
20		90							
25		120							
30		180							
40		240							
50		300							
60		360							
90		420							
120		480							
150		540							
180		600							

Stage 1 gas flow - Peak (l/h)	0.2	**Note:** Flow should be recorded at 5 second intervals up to 30 seconds, 10 second intervals to 2 minutes and 30 second intervals up to 3 minutes or until steady-state readings are obtained. Typically, steady state conditions occur within 30 seconds to a minute. The differential pressure reading (in Pa) should also be recorded during this period.
Stage 1 gas flow - Steady State (l/h)	0.2	

STAGE 3 WATER LEVEL OBSERVATION						
	Depth (from datum) to water (DTW): (m)	10.3	Time:		LNAPL Top (from datum) (m):	
	Depth (from datum) to well base (DTB): (m)	17.7	Purge Start:		DNAPL Top (from datum) (m):	
	Hole Purged: Yes / No		Purge End:		Water Observations:	
	Purge Volume: (ltrs)		Post-Purge (DTW) (m)			



Post testing remarks:

Steady state value are taken when there is no change for 1 minute. All measurements taken from the current ground level.

Samples Taken: Yes / No	
Sample Media: Gas/Water	
Gas Cannister Start (mb)	
Gas Cannister End (mb)	
Gas Cannister Duration (mins)	

Depth (from datum)	Sample Ref	Type (EW / G)	Container

Contract Name:	EAF Prroject	Data Collected By:	
Project Manager / Engineer:	James Bloore	Checked:	
Contract Ref:	315531	Page number:	

GAS MONITORING FIELD SHEET

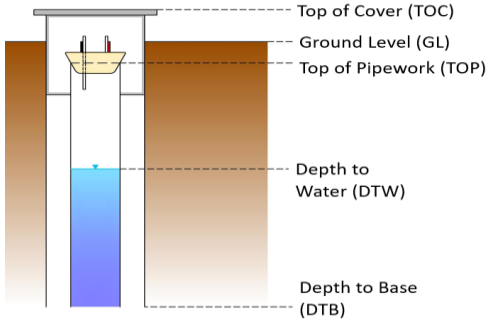
Monitoring Date:	30.09.2024	Measurement datum: TOC / GL / TOP / Other	TOC	Offset to GL (m):		0
Pre-Testing Remarks:		Air Temperature: °C	13	Device:		GA5000
Falling pressure		Weather:	Sunny	Serial Number:		G507779
		Ground Conditions:	Dry	Daily Check:		
		Wind: NONE / LIGHT / MEDIUM / STRONG				
		Tidal State: (if applicable) High / Low / Rising / Falling		Rising		
Exploratory Position ID:	BH330	Monitoring Round Number:	3	Test Number:		1
Install Type: SINGLE / DOUBLE	Single	Pipe Ref: 1) Shallow 2) Deep	Shallow	Pipe Diameter: 19mm/ 40mm / 50mm / Other (mm)		50

Time of Monitoring (hh:mm)	Flow readings	Gas readings	Atmospheric Pressure (mb)	Differential Pressure (mb)	Gas tap: SINGLE / DOUBLE	
Time Start (hh:mm)			987	0.3	Observations (e.g. on-site activities):	
Time End (hh:mm)						

Stage 1 Flow Readings	**Stage 1** Flow Readings	**Stage 2** Gas Monitoring:	Methane (%/vol)	Carbon Dioxide (%/vol)	Oxygen (%/vol)	Carbon monoxide (ppm)	Hydrogen sulphide (ppm)	LEL (%)	PID (ppm)
Time of flow monitoring (sec)	Flow Reading (l/hr)	Time of gas monitoring (sec)							
0	0	0	0	0	21	0	0		
5	0	15	1	0.3	19.8	1	0		
10	0	30	1.1	0.3	19.6	1	0		
15	0	60	1.1	0.3	19.6	1	0		
20	0	90	1.1	0.3	19.6	1	0		
25									
30									
40									
50									
60									
90									
120									
150									
180									

Stage 1 gas flow - Peak (l/h)	0	**Note:** Flow should be recorded at 5 second intervals up to 30 seconds, 10 second intervals to 2 minutes and 30 second intervals up to 3 minutes or until steady-state readings are obtained. Typically, steady state conditions occur within 30 seconds to a minute. The differential pressure reading (in Pa) should also be recorded during this period.
Stage 1 gas flow - Steady State (l/h)	0	

STAGE 3 WATER LEVEL OBSERVATION						
	Depth (from datum) to water (DTW): (m)	2.54	Time:		LNAPL Top (from datum) (m):	
	Depth (from datum) to well base (DTB): (m)	6.5	Purge Start:		DNAPL Top (from datum) (m):	
	Hole Purged: Yes / No	No	Purge End:		Water Observations:	
	Purge Volume: (ltrs)		Post-Purge (DTW) (m)			



Post testing remarks:	Samples Taken: Yes / No	No
	Sample Media: Gas/Water	N/A
	Gas Cannister Start (mb)	
	Gas Cannister End (mb)	
	Gas Cannister Duration (mins)	

Depth (from datum)	Sample Ref	Type (EW / G)	Container

RSK	Contract Name:	EAF	Data Collected By:	James Bloor
	Project Manager / Engineer:	James Bloore	Checked:	
	Contract Ref:	315531	Page number:	

GAS MONITORING FIELD SHEET

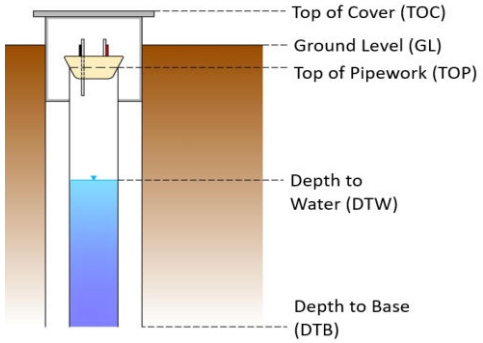
Monitoring Date:	30.09.2024	Measurement datum: TOC / GL / TOP / Other	GL	Offset to GL (m):	0
Pre-Testing Remarks:		Air Temperature: °C		Device:	G508232
Falling pressure		Weather:	Sunny	Serial Number:	G507779
		Ground Conditions:	Dry	Daily Check:	
		Wind: NONE / LIGHT / MEDIUM / STRONG			
		Tidal State: (if applicable) High / Low / Rising / Falling		Rising	
Exploratory Position ID:	BH331	Monitoring Round Number:	3	Test Number:	
Install Type: SINGLE / DOUBLE		Pipe Ref: 1) Shallow 2) Deep		Pipe Diameter: 19mm/ 40mm / 50mm / Other (mm)	

Time of Monitoring (hh:mm)	Flow readings	Gas readings	Atmospheric Pressure (mb)	Differential Pressure (mb)	Gas tap: SINGLE / DOUBLE	
Time Start (hh:mm)	10:00		986		Observations (e.g. on-site activities):	
Time End (hh:mm)	14:00					

Stage 1 Flow Readings	**Stage 1** Flow Readings	**Stage 2** Gas Monitoring:	Methane (%/vol)	Carbon Dioxide (%/vol)	Oxygen (%/vol)	Carbon monoxide (ppm)	Hydrogen sulphide (ppm)	LEL (%)	PID (ppm)
Time of flow monitoring (sec)	Flow Reading (l/hr)	Time of gas monitoring (sec)							
0	0.5	0	0.2	0.3	18.5	2	0		N/A
5	0.5	15	0.3	0.3	18.5	2	0		
10		30							
15		60							
20		90							
25		120							
30		180							
40		240							
50		300							
60		360							
90		420							
120		480							
150		540							
180		600							

Stage 1 gas flow - Peak (l/h)	0.5	**Note:** Flow should be recorded at 5 second intervals up to 30 seconds, 10 second intervals to 2 minutes and 30 second intervals up to 3 minutes or until steady-state readings are obtained. Typically, steady state conditions occur within 30 seconds to a minute. The differential pressure reading (in Pa) should also be recorded during this period.
Stage 1 gas flow - Steady State (l/h)	0.5	

STAGE 3 WATER LEVEL OBSERVATION						
	Depth (from datum) to water (DTW): (m)	3.56	Time:		LNAPL Top (from datum) (m):	
	Depth (from datum) to well base (DTB): (m)	8.13	Purge Start:		DNAPL Top (from datum) (m):	
	Hole Purged: Yes / No		Purge End:		Water Observations:	
	Purge Volume: (ltrs)		Post-Purge (DTW) (m)			



Post testing remarks:

Steady state value are taken when there is no change for 1 minute. All measurements taken from the current ground level.

Samples Taken: Yes / No	
Sample Media: Gas/Water	
Gas Cannister Start (mb)	
Gas Cannister End (mb)	
Gas Cannister Duration (mins)	

Depth (from datum)	Sample Ref	Type (EW / G)	Container

Contract Name:	EAF Prroject	Data Collected By:	James Bloor
Project Manager / Engineer:		Checked:	
Contract Ref:	315531	Page number:	

GAS MONITORING FIELD SHEET

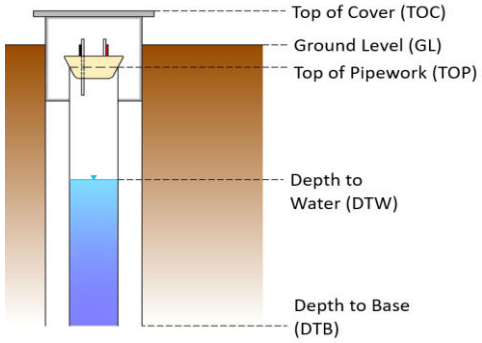
Monitoring Date:	29.10.2024	Measurement datum: TOC / GL / TOP / Other	TOC	Offset to GL (m):	0
Pre-Testing Remarks:		Air Temperature: °C	13	Device:	GA5000
Stable pressure		Weather:	Sunny	Serial Number:	NA
		Ground Conditions:	Wet	Daily Check:	
		Wind: NONE / LIGHT / MEDIUM / STRONG		Light	
		Tidal State: (if applicable) High / Low / Rising / Falling		Rising	
Exploratory Position ID:	BH301	Monitoring Round Number:	4	Test Number:	1
Install Type: SINGLE / DOUBLE	Single	Pipe Ref: 1) Shallow 2) Deep	Shallow	Pipe Diameter: 19mm/ 40mm / 50mm / Other (mm)	50

Time of Monitoring (hh:mm)	Flow readings	Gas readings	Atmospheric Pressure (mb)	Differential Pressure (mb)	Gas tap: SINGLE / DOUBLE	Single
Time Start (hh:mm)	12:11	13:11	1023	0.02	Observations (e.g. on-site activities):	
Time End (hh:mm)	12:14	13:21				

Stage 1 Flow Readings	**Stage 1** Flow Readings	**Stage 2** Gas Monitoring:	Methane (%/vol)	Carbon Dioxide (%/vol)	Oxygen (%/vol)	Carbon monoxide (ppm)	Hydrogen sulphide (ppm)	LEL (%)	PID (ppm)
Time of flow monitoring (sec)	Flow Reading (l/hr)	Time of gas monitoring (sec)							
0	0	0	0.1	0.1	21.1	1			
5	0	15	0.1	0	17.2	13			
10	0	30	0.2	0	15.9	1			
15	0	60	0.2	0	15.8				
20		90	0.2	0	15.8				
25		120	0.2	0	15.8				
30		180							
40		240							
50		300							
60		360							
90		420							
120		480							
150		540							
180		600							

Stage 1 gas flow - Peak (l/h)	0	**Note:** Flow should be recorded at 5 second intervals up to 30 seconds, 10 second intervals to 2 minutes and 30 second intervals up to 3 minutes or until steady-state readings are obtained. Typically, steady state conditions occur within 30 seconds to a minute. The differential pressure reading (in Pa) should also be recorded during this period.
Stage 1 gas flow - Steady State (l/h)	0	

STAGE 3 WATER LEVEL OBSERVATION						
	Depth (from datum) to water (DTW): (m)	1.38	Time:	12:11:00	LNAPL Top (from datum) (m):	
	Depth (from datum) to well base (DTB): (m)	20.1	Purge Start:		DNAPL Top (from datum) (m):	
	Hole Purged: Yes / No	No	Purge End:		Water Observations:	
	Purge Volume: (ltrs)		Post-Purge (DTW) (m)			



Post testing remarks:	Samples Taken: Yes / No	No
	Sample Media: Gas/Water	N/A
	Gas Cannister Start (mb)	
	Gas Cannister End (mb)	
	Gas Cannister Duration (mins)	

Depth (from datum)	Sample Ref	Type (EW / G)	Container

RSK	Contract Name:	EAF	Data Collected By:	Jagan Raj
	Project Manager / Engineer:	James Bloore	Checked:	
	Contract Ref:	315531	Page number:	

GAS MONITORING FIELD SHEET

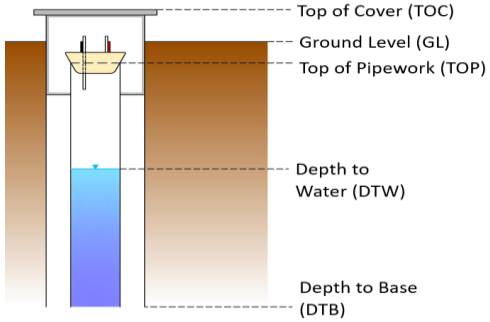
Monitoring Date:	29.10.2024	Measurement datum: TOC / GL / TOP / Other	TOC	Offset to GL (m):		0.25
Pre-Testing Remarks:		Air Temperature: °C	13	Device:		GA5000
Stable pressure		Weather:	Sunny	Serial Number:		NA
		Ground Conditions:	Wet	Daily Check:		
		Wind: NONE / LIGHT / MEDIUM / STRONG		Light		
		Tidal State: (if applicable) High / Low / Rising / Falling		Rising		
Exploratory Position ID:	BH311	Monitoring Round Number:	4	Test Number:	1	
Install Type: SINGLE / DOUBLE	Single	Pipe Ref: 1) Shallow 2) Deep	Shallow	Pipe Diameter: 19mm/ 40mm / 50mm / Other (mm)		50

Time of Monitoring (hh:mm)	Flow readings	Gas readings	Atmospheric Pressure (mb)	Differential Pressure (mb)	Gas tap: SINGLE / DOUBLE	Single
Time Start (hh:mm)	13:44	13:44	1023	0.05	Observations (e.g. on-site activities):	
Time End (hh:mm)	13:47	13:54				

Stage 1 Flow Readings	**Stage 1** Flow Readings	**Stage 2** Gas Monitoring:	Methane (%/vol)	Carbon Dioxide (%/vol)	Oxygen (%/vol)	Carbon monoxide (ppm)	Hydrogen sulphide (ppm)	LEL (%)	PID (ppm)
Time of flow monitoring (sec)	Flow Reading (l/hr)	Time of gas monitoring (sec)							
0	0	0	0.1	0.1	20.9	0	0		
5	0	15	2.8	0	18.6	1	0		
10	0	30	5.3	0	18.2	1	0		
15	0	60	5.9	0	18.2	2	0		
20		90	5.9	0	18.2	2	0		
25		120	5.9	0	18.2	2	0		
30		180	6	0	18.2	2	0		
40		240	6	0	18.2	2	0		
50		300	6	0	18.2	3	0		
60		360	5.7	0	18.4	3	0		
90		420	5.3	0	18.6	3	0		
120		480	5.1	0	18.7	3	0		
150		540	4.8	0	18.8	3	0		
180		600	4.5	0	19	3	0		

Stage 1 gas flow - Peak (l/h)	0	**Note:** Flow should be recorded at 5 second intervals up to 30 seconds, 10 second intervals to 2 minutes and 30 second intervals up to 3 minutes or until steady-state readings are obtained. Typically, steady state conditions occur within 30 seconds to a minute. The differential pressure reading (in Pa) should also be recorded during this period.
Stage 1 gas flow - Steady State (l/h)	0	

STAGE 3 WATER LEVEL OBSERVATION	Depth (from datum) to water (DTW): (m)	7.79	Time:	13:44:00	LNAPL Top (from datum) (m):	
	Depth (from datum) to well base (DTB): (m)	8.15	Purge Start:		DNAPL Top (from datum) (m):	
	Hole Purged: Yes / No	No	Purge End:		Water Observations:	
	Purge Volume: (ltrs)		Post-Purge (DTW) (m)			



Post testing remarks:	Samples Taken: Yes / No	No
	Sample Media: Gas/Water	N/A
	Gas Cannister Start (mb)	
	Gas Cannister End (mb)	
	Gas Cannister Duration (mins)	

Depth (from datum)	Sample Ref	Type (EW / G)	Container

RSK	Contract Name:	EAF	Data Collected By:	Rachael Lockyer
	Project Manager / Engineer:	James Bloore	Checked:	
	Contract Ref:	315531	Page number:	

GAS MONITORING FIELD SHEET

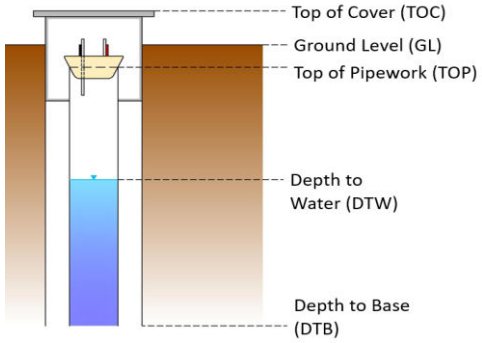
Monitoring Date:	29.10.2024	Measurement datum: TOC / GL / TOP / Other	TOC	Offset to GL (m):			0.05
Pre-Testing Remarks:		Air Temperature: °C	13	Device:			GA5000
Stable pressure		Weather:	Sunny	Serial Number:			NA
		Ground Conditions:	Wet	Daily Check:			
		Wind: NONE / LIGHT / MEDIUM / STRONG		Light			
		Tidal State: (if applicable) High / Low / Rising / Falling		Rising			
Exploratory Position ID:	BH315	Monitoring Round Number:	4	Test Number:	1		
Install Type: SINGLE / DOUBLE	Single	Pipe Ref: 1) Shallow 2) Deep	Shallow	Pipe Diameter: 19mm/ 40mm / 50mm / Other (mm)	50		

Time of Monitoring (hh:mm)	Flow readings	Gas readings	Atmospheric Pressure (mb)	Differential Pressure (mb)	Gas tap: SINGLE / DOUBLE	Double
Time Start (hh:mm)	09:52	09:52	1024	0.02	Observations (e.g. on-site activities):	
Time End (hh:mm)	09:55	10:02				

Stage 1 Flow Readings	**Stage 1** Flow Readings	**Stage 2** Gas Monitoring:	Methane (%/vol)	Carbon Dioxide (%/vol)	Oxygen (%/vol)	Carbon monoxide (ppm)	Hydrogen sulphide (ppm)	LEL (%)	PID (ppm)
Time of flow monitoring (sec)	Flow Reading (l/hr)	Time of gas monitoring (sec)							
0	0	0	0	0.1	19.8	0	0		
5	0	15	0	0.1	18.3	2	0		
10	0	30	0	0.1	17.8	2	0		
15	0	60	0	0.1	17.7	1	0		
20	0	90	0	0.1	17.7	1	0		
25		120	0	0.1	17.7	1	0		
30		180	0	0.1	17.7	1	0		
40		240	0	0.1	17.7	1	0		
50		300							
60		360							
90		420							
120		480							
150		540							
180		600							

Stage 1 gas flow - Peak (l/h)	0	**Note:** Flow should be recorded at 5 second intervals up to 30 seconds, 10 second intervals to 2 minutes and 30 second intervals up to 3 minutes or until steady-state readings are obtained. Typically, steady state conditions occur within 30 seconds to a minute. The differential pressure reading (in Pa) should also be recorded during this period.
Stage 1 gas flow - Steady State (l/h)	0	

STAGE 3 WATER LEVEL OBSERVATION						
	Depth (from datum) to water (DTW): (m)	1.19	Time:	09:52:00	LNAPL Top (from datum) (m):	
	Depth (from datum) to well base (DTB): (m)	15.42	Purge Start:		DNAPL Top (from datum) (m):	
	Hole Purged: Yes / No	No	Purge End:		Water Observations:	
	Purge Volume: (ltrs)		Post-Purge (DTW) (m)			



Post testing remarks:	Samples Taken: Yes / No	No
	Sample Media: Gas/Water	N/A
	Gas Cannister Start (mb)	
	Gas Cannister End (mb)	
	Gas Cannister Duration (mins)	

Depth (from datum)	Sample Ref	Type (EW / G)	Container

RSK	Contract Name:	EAF	Data Collected By:	Rachael Lockyer
	Project Manager / Engineer:	James Bloore	Checked:	
	Contract Ref:	315531	Page number:	

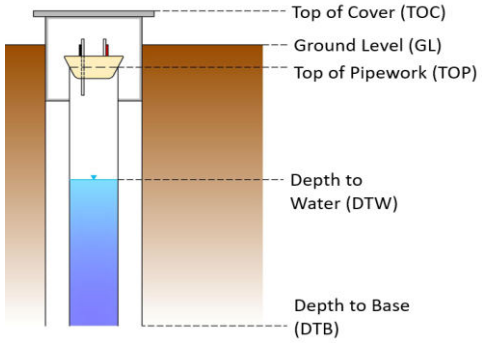
GAS MONITORING FIELD SHEET

Monitoring Date:	29.10.2024	Measurement datum: TOC / GL / TOP / Other	TOP	Offset to GL (m):	0.3				
Pre-Testing Remarks:		Air Temperature: °C	13	Device:	GA5000				
Stable pressure		Weather:	Sunny	Serial Number:	NA				
		Ground Conditions:	Wet	Daily Check:					
		Wind: NONE / LIGHT / MEDIUM / STRONG		Light					
		Tidal State: (if applicable) High / Low / Rising / Falling		Rising					
Exploratory Position ID:	BH317	Monitoring Round Number:	4	Test Number:	1				
Install Type: SINGLE / DOUBLE	Single	Pipe Ref: 1) Shallow 2) Deep	Shallow	Pipe Diameter: 19mm/ 40mm / 50mm / Other (mm)	50				
Time of Monitoring (hh:mm)	Flow readings	Gas readings	Atmospheric Pressure (mb)	Differential Pressure (mb)	Gas tap: SINGLE / DOUBLE	Single			
Time Start (hh:mm)	10:36	10:36	1025	5.5	Observations (e.g. on-site activities):				
Time End (hh:mm)	10:39	10:46							

Stage 1 Flow Readings	**Stage 1** Flow Readings	**Stage 2** Gas Monitoring:	Methane (%/vol)	Carbon Dioxide (%/vol)	Oxygen (%/vol)	Carbon monoxide (ppm)	Hydrogen sulphide (ppm)	LEL (%)	PID (ppm)
Time of flow monitoring (sec)	Flow Reading (l/hr)	Time of gas monitoring (sec)							
0	0	0	0	0	21.3	0	0		
5	0	15	93.3	1.8	0.4	1	0		
10	0	30	93.8	1.8	0.2	1	0		
15	0	60	93.8	1.8	0.2	1	0		
20	0	90	93.9	1.8	0.2	1	0		
25	0	120	94	1.8	0.1	1	0		
30	0	180	93.9	1.8	0.1	1	0		
40		240	84.3	1.6	3.2	0	8		
50		300	60.1	1.2	7.3	0	0		
60		360	39.3	0.8	11.6	0	0		
90		420	36.1	0.7	12.3	0	0		
120		480	33.7	0.7	12.9	0	0		
150		540	29.7	0.6	13.9	0	0		
180		600	27.7	0.6	14.4	0	0		

Stage 1 gas flow - Peak (l/h)	0	**Note:** Flow should be recorded at 5 second intervals up to 30 seconds, 10 second intervals to 2 minutes and 30 second intervals up to 3 minutes or until steady-state readings are obtained. Typically, steady state conditions occur within 30 seconds to a minute. The differential pressure reading (in Pa) should also be recorded during this period.
Stage 1 gas flow - Steady State (l/h)	0	

STAGE 3 WATER LEVEL OBSERVATION	Depth (from datum) to water (DTW): (m)	2.45	Time:	10:36:00	LNAPL Top (from datum) (m):		
	Depth (from datum) to well base (DTB): (m)	6.82	Purge Start:		DNAPL Top (from datum) (m):		
	Hole Purged: Yes / No	No	Purge End:		Water Observations:		
	Purge Volume: (ltrs)		Post-Purge (DTW) (m)				



Post testing remarks:	Samples Taken: Yes / No	No
	Sample Media: Gas/Water	N/A
	Gas Cannister Start (mb)	
	Gas Cannister End (mb)	
	Gas Cannister Duration (mins)	

Depth (from datum)	Sample Ref	Type (EW / G)	Container

RSK	Contract Name:	EAF	Data Collected By:	Rachael Lockyer
	Project Manager / Engineer:	James Bloore	Checked:	
	Contract Ref:	315531	Page number:	

GAS MONITORING FIELD SHEET

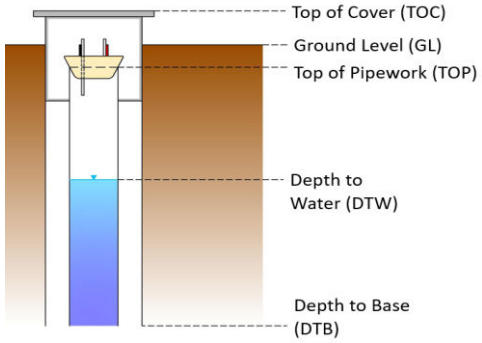
Monitoring Date:	29.10.2024	Measurement datum: TOC / GL / TOP / Other	TOC	Offset to GL (m):			0.35
Pre-Testing Remarks:		Air Temperature: °C	13	Device:			GA5000
Stable pressure		Weather:	Sunny	Serial Number:			NA
		Ground Conditions:	Wet	Daily Check:			
		Wind: NONE / LIGHT / MEDIUM / STRONG		Light			
		Tidal State: (if applicable) High / Low / Rising / Falling		Rising			
Exploratory Position ID:	BH324	Monitoring Round Number:	4	Test Number:	1		
Install Type: SINGLE / DOUBLE	Single	Pipe Ref: 1) Shallow 2) Deep	Shallow	Pipe Diameter: 19mm/ 40mm / 50mm / Other (mm)	50		

Time of Monitoring (hh:mm)	Flow readings	Gas readings	Atmospheric Pressure (mb)	Differential Pressure (mb)	Gas tap: SINGLE / DOUBLE	Single
Time Start (hh:mm)	14:58	14:58	1023	0.02	Observations (e.g. on-site activities):	
Time End (hh:mm)	15:01	15:08				

Stage 1 Flow Readings	**Stage 1** Flow Readings	**Stage 2** Gas Monitoring:	Methane (%/vol)	Carbon Dioxide (%/vol)	Oxygen (%/vol)	Carbon monoxide (ppm)	Hydrogen sulphide (ppm)	LEL (%)	PID (ppm)
Time of flow monitoring (sec)	Flow Reading (l/hr)	Time of gas monitoring (sec)							
0	0	0	0	0	20.6	0	0		
5	0	15	0.1	0	20.8	2	0		
10	0	30	0	0	20.9	2	0		
15	0	60	0	0	20.9	2	0		
20		90	0	0	20.9	2	0		
25		120	0	0	21	2	0		
30		180	0	0	21	2	0		
40		240	0	0	21	2	0		
50		300	0	0	21	2	0		
60		360	0	0	21	1	0		
90		420	0	0	21.1	2	0		
120		480							
150		540							
180		600							

Stage 1 gas flow - Peak (l/h)	0	**Note:** Flow should be recorded at 5 second intervals up to 30 seconds, 10 second intervals to 2 minutes and 30 second intervals up to 3 minutes or until steady-state readings are obtained. Typically, steady state conditions occur within 30 seconds to a minute. The differential pressure reading (in Pa) should also be recorded during this period.
Stage 1 gas flow - Steady State (l/h)	0	

STAGE 3 WATER LEVEL OBSERVATION						
	Depth (from datum) to water (DTW): (m)	1.29	Time:	14:58:00	LNAPL Top (from datum) (m):	
	Depth (from datum) to well base (DTB): (m)	2.4	Purge Start:		DNAPL Top (from datum) (m):	
	Hole Purged: Yes / No	No	Purge End:		Water Observations:	
	Purge Volume: (ltrs)		Post-Purge (DTW) (m)			



Post testing remarks:	Samples Taken: Yes / No	No
	Sample Media: Gas/Water	N/A
	Gas Cannister Start (mb)	
	Gas Cannister End (mb)	
	Gas Cannister Duration (mins)	

Depth (from datum)	Sample Ref	Type (EW / G)	Container

RSK	Contract Name:	EAF	Data Collected By:	Rachael Lockyer
	Project Manager / Engineer:	James Bloore	Checked:	
	Contract Ref:	315531	Page number:	

GAS MONITORING FIELD SHEET

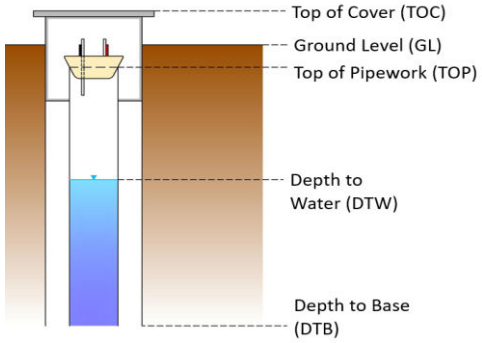
Monitoring Date:	29.10.2024	Measurement datum: TOC / GL / TOP / Other	TOC	Offset to GL (m):	0.25
Pre-Testing Remarks:		Air Temperature: °C	13	Device:	GA5000
Stable pressure		Weather:	Sunny	Serial Number:	NA
		Ground Conditions:	Wet	Daily Check:	
		Wind: NONE / LIGHT / MEDIUM / STRONG		Light	
		Tidal State: (if applicable) High / Low / Rising / Falling		Rising	
Exploratory Position ID:	BH328	Monitoring Round Number:	4	Test Number:	1
Install Type: SINGLE / DOUBLE	Single	Pipe Ref: 1) Shallow 2) Deep	Shallow	Pipe Diameter: 19mm/ 40mm / 50mm / Other (mm)	50

Time of Monitoring (hh:mm)	Flow readings	Gas readings	Atmospheric Pressure (mb)	Differential Pressure (mb)	Gas tap: SINGLE / DOUBLE	Single
Time Start (hh:mm)	13:17	13:17	1023	5.55	Observations (e.g. on-site activities):	
Time End (hh:mm)	13:20	13:27				

Stage 1 Flow Readings	**Stage 1** Flow Readings	**Stage 2** Gas Monitoring:	Methane (%/vol)	Carbon Dioxide (%/vol)	Oxygen (%/vol)	Carbon monoxide (ppm)	Hydrogen sulphide (ppm)	LEL (%)	PID (ppm)
Time of flow monitoring (sec)	Flow Reading (l/hr)	Time of gas monitoring (sec)							
0	0	0							
5	0	15	26.6	10.6	1.3	2	0		
10	0	30	26.8	10.7	0.3	2	0		
15	0	60	26.9	10.8	0.2	1	0		
20	0	90	26.9	10.8	0.2	1	0		
25	0	120	26.9	10.8	0.1	1	0		
30		180	26.9	10.8	0.1	1	0		
40		240	27	10.8	0.1	1	0		
50		300	27	10.8	0.1	1	0		
60		360	27	10.8	0	1	0		
90		420	27.1	10.8	0	1	0		
120		480	27.1	10.8	0	0	0		
150		540	27.2	10.8	0	1	0		
180		600	27.2	10.8	0	1	0		

Stage 1 gas flow - Peak (l/h)	0	**Note:** Flow should be recorded at 5 second intervals up to 30 seconds, 10 second intervals to 2 minutes and 30 second intervals up to 3 minutes or until steady-state readings are obtained. Typically, steady state conditions occur within 30 seconds to a minute. The differential pressure reading (in Pa) should also be recorded during this period.
Stage 1 gas flow - Steady State (l/h)	0	

STAGE 3 WATER LEVEL OBSERVATION						
	Depth (from datum) to water (DTW): (m)	10.61	Time:	13:17:00	LNAPL Top (from datum) (m):	
	Depth (from datum) to well base (DTB): (m)	18.09	Purge Start:		DNAPL Top (from datum) (m):	
	Hole Purged: Yes / No	No	Purge End:		Water Observations:	
	Purge Volume: (ltrs)		Post-Purge (DTW) (m)			



Post testing remarks:	Samples Taken: Yes / No	No
	Sample Media: Gas/Water	N/A
	Gas Cannister Start (mb)	
	Gas Cannister End (mb)	
	Gas Cannister Duration (mins)	

Depth (from datum)	Sample Ref	Type (EW / G)	Container

Contract Name:	EAF		Data Collected By:	Rachael Lockyer
Project Manager / Engineer:		James Bloore	Checked:	
Contract Ref:	315531		Page number:	

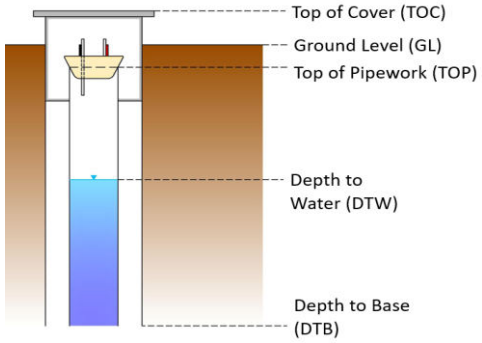
GAS MONITORING FIELD SHEET

Monitoring Date:	29.10.2024	Measurement datum: TOC / GL / TOP / Other	TOC	Offset to GL (m):	0.3				
Pre-Testing Remarks:		Air Temperature: °C	13	Device:	GA5000				
Stable pressure		Weather:	Sunny	Serial Number:	NA				
		Ground Conditions:	Wet	Daily Check:					
		Wind: NONE / LIGHT / MEDIUM / STRONG		Light					
		Tidal State: (if applicable) High / Low / Rising / Falling		Rising					
Exploratory Position ID:	BH329	Monitoring Round Number:	4	Test Number:	1				
Install Type: SINGLE / DOUBLE	Single	Pipe Ref: 1) Shallow 2) Deep	Shallow	Pipe Diameter: 19mm/ 40mm / 50mm / Other (mm)	50				
Time of Monitoring (hh:mm)	Flow readings	Gas readings	Atmospheric Pressure (mb)	Differential Pressure (mb)	Gas tap: SINGLE / DOUBLE	Single			
Time Start (hh:mm)	11:42	11:42	1023	5	Observations (e.g. on-site activities):				
Time End (hh:mm)	11:45	11:52							

Stage 1 Flow Readings	**Stage 1** Flow Readings	**Stage 2** Gas Monitoring:	Methane (%/vol)	Carbon Dioxide (%/vol)	Oxygen (%/vol)	Carbon monoxide (ppm)	Hydrogen sulphide (ppm)	LEL (%)	PID (ppm)
Time of flow monitoring (sec)	Flow Reading (l/hr)	Time of gas monitoring (sec)							
0	0	0	0	0	21.4	0	0		
5	0	15	2	0.1	17.5	2	0		
10	0	30	3.1	0.2	17.2	2	0		
15	0	60	3.2	0.2	17.2	1	0		
20	0	90	3.2	0.2	17.2	2	0		
25	0	120	3.3	0.2	17.1	2	0		
30	0	180	3.3	0.2	17.1	2	0		
40		240	3.3	0.2	17.1	2	0		
50		300	3.3	0.2	17.1	1	0		
60		360	3.3	0.2	17	2	0		
90		420	3.4	0.2	16.9	1	0		
120		480	3.5	0.2	16.9	1	0		
150		540	3.5	0.2	16.9	1	0		
180		600	3.5	0.2	16.9	1	0		

Stage 1 gas flow - Peak (l/h)	0	**Note:** Flow should be recorded at 5 second intervals up to 30 seconds, 10 second intervals to 2 minutes and 30 second intervals up to 3 minutes or until steady-state readings are obtained. Typically, steady state conditions occur within 30 seconds to a minute. The differential pressure reading (in Pa) should also be recorded during this period.
Stage 1 gas flow - Steady State (l/h)	0	

STAGE 3 WATER LEVEL OBSERVATION	Depth (from datum) to water (DTW): (m)	10.33	Time:	11:42:00	LNAPL Top (from datum) (m):		
	Depth (from datum) to well base (DTB): (m)	11.68	Purge Start:		DNAPL Top (from datum) (m):		
	Hole Purged: Yes / No	No	Purge End:		Water Observations:		
	Purge Volume: (ltrs)		Post-Purge (DTW) (m)				



Post testing remarks:	Samples Taken: Yes / No	No
	Sample Media: Gas/Water	N/A
	Gas Cannister Start (mb)	
	Gas Cannister End (mb)	
	Gas Cannister Duration (mins)	

Depth (from datum)	Sample Ref	Type (EW / G)	Container

RSK	Contract Name:	EAF	Data Collected By:	Rachael Lockyer
	Project Manager / Engineer:	James Bloore	Checked:	
	Contract Ref:	315531	Page number:	

GAS MONITORING FIELD SHEET

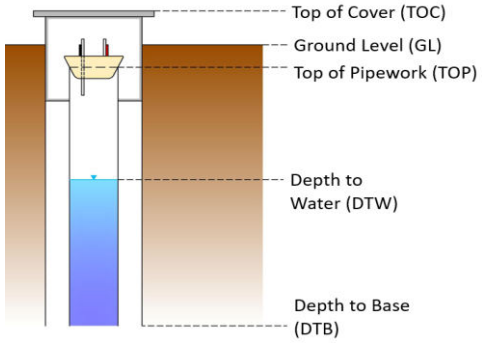
Monitoring Date:	29.10.2024	Measurement datum: TOC / GL / TOP / Other	TOC	Offset to GL (m):	0.2
Pre-Testing Remarks:		Air Temperature: °C	13	Device:	GA5000
Stable pressure		Weather:	Sunny	Serial Number:	NA
		Ground Conditions:	Wet	Daily Check:	
		Wind: NONE / LIGHT / MEDIUM / STRONG		Light	
		Tidal State: (if applicable) High / Low / Rising / Falling		Rising	
Exploratory Position ID:	BH330	Monitoring Round Number:	4	Test Number:	1
Install Type: SINGLE / DOUBLE	Single	Pipe Ref: 1) Shallow 2) Deep	Shallow	Pipe Diameter: 19mm/ 40mm / 50mm / Other (mm)	50

Time of Monitoring (hh:mm)	Flow readings	Gas readings	Atmospheric Pressure (mb)	Differential Pressure (mb)	Gas tap: SINGLE / DOUBLE	Double
Time Start (hh:mm)	10:54	10:54	1025	0.3	Observations (e.g. on-site activities):	
Time End (hh:mm)	10:57	11:04				

Stage 1 Flow Readings	**Stage 1** Flow Readings	**Stage 2** Gas Monitoring:	Methane (%/vol)	Carbon Dioxide (%/vol)	Oxygen (%/vol)	Carbon monoxide (ppm)	Hydrogen sulphide (ppm)	LEL (%)	PID (ppm)
Time of flow monitoring (sec)	Flow Reading (l/hr)	Time of gas monitoring (sec)							
0	0	0	0	0	21	0	0		
5	0	15	1	0.3	19.8	1	0		
10	0	30	1.1	0.3	19.6	1	0		
15	0	60	1.1	0.3	19.6	1	0		
20	0	90	1.1	0.3	19.6	1	0		
25		120	1.1	0.3	19.5	1	0		
30		180	1	0.3	19.6	1	0		
40		240	0.8	0.2	19.6	0	0		
50		300	0.7	0.2	19.6	1	0		
60		360	0.7	0.2	19.6	0	0		
90		420	0.7	0.2	19.5	1	0		
120		480	0.6	0.2	19.5	1	0		
150		540	0.6	0.2	19.5	1	0		
180		600	0.6	0.2	19.4	1	0		

Stage 1 gas flow - Peak (l/h)	0	**Note:** Flow should be recorded at 5 second intervals up to 30 seconds, 10 second intervals to 2 minutes and 30 second intervals up to 3 minutes or until steady-state readings are obtained. Typically, steady state conditions occur within 30 seconds to a minute. The differential pressure reading (in Pa) should also be recorded during this period.
Stage 1 gas flow - Steady State (l/h)	0	

STAGE 3 WATER LEVEL OBSERVATION						
	Depth (from datum) to water (DTW): (m)	2.5	Time:	10:54:00	LNAPL Top (from datum) (m):	
	Depth (from datum) to well base (DTB): (m)	6.5	Purge Start:		DNAPL Top (from datum) (m):	
	Hole Purged: Yes / No	No	Purge End:		Water Observations:	
	Purge Volume: (ltrs)		Post-Purge (DTW) (m)			



Post testing remarks:	Samples Taken: Yes / No	No
	Sample Media: Gas/Water	N/A
	Gas Cannister Start (mb)	
	Gas Cannister End (mb)	
	Gas Cannister Duration (mins)	

Depth (from datum)	Sample Ref	Type (EW / G)	Container

Contract Name:	EAF		Data Collected By:	Rachael Lockyer
Project Manager / Engineer:		James Bloore	Checked:	
Contract Ref:	315531		Page number:	

GAS MONITORING FIELD SHEET

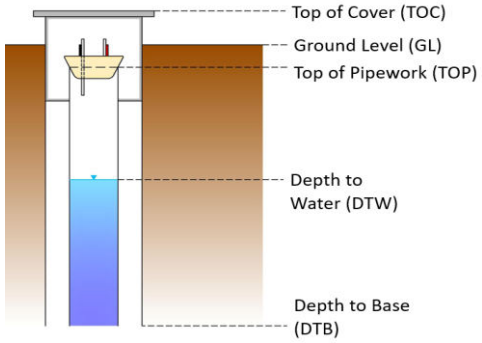
Monitoring Date:	29.10.2024	Measurement datum: TOC / GL / TOP / Other	TOC	Offset to GL (m):	0.1
Pre-Testing Remarks:		Air Temperature: °C	16 °C	Device:	GA5000
Stable pressure		Weather:	Sunny	Serial Number:	NA
		Ground Conditions:	Wet	Daily Check:	
		Wind: NONE / LIGHT / MEDIUM / STRONG		Light	
		Tidal State: (if applicable) High / Low / Rising / Falling		Rising	
Exploratory Position ID:	BH331	Monitoring Round Number:	4	Test Number:	1
Install Type: SINGLE / DOUBLE	Single	Pipe Ref: 1) Shallow 2) Deep	Shallow	Pipe Diameter: 19mm/ 40mm / 50mm / Other (mm)	50

Time of Monitoring (hh:mm)	Flow readings	Gas readings	Atmospheric Pressure (mb)	Differential Pressure (mb)	Gas tap: SINGLE / DOUBLE	Single
Time Start (hh:mm)	11:55	12:00	0	0	Observations (e.g. on-site activities):	
Time End (hh:mm)	12:00	12:10				

Stage 1 Flow Readings	**Stage 1** Flow Readings	**Stage 2** Gas Monitoring:	Methane (%/vol)	Carbon Dioxide (%/vol)	Oxygen (%/vol)	Carbon monoxide (ppm)	Hydrogen sulphide (ppm)	LEL (%)	PID (ppm)
Time of flow monitoring (sec)	Flow Reading (l/hr)	Time of gas monitoring (sec)							
0	0	0	0	0	21.2	1			
5	0	15	0.3	0.1	20.4	4			
10	0	30	0.4	0.1	20.3	1			
15	0	60	0.4	0.1	20.3	1			
20		90	0.4	0.1	20.3	1			
25		120	0.4	0.1	20.3	1			
30		180							
40		240							
50		300							
60		360							
90		420							
120		480							
150		540							
180		600							

Stage 1 gas flow - Peak (l/h)	0	**Note:** Flow should be recorded at 5 second intervals up to 30 seconds, 10 second intervals to 2 minutes and 30 second intervals up to 3 minutes or until steady-state readings are obtained. Typically, steady state conditions occur within 30 seconds to a minute. The differential pressure reading (in Pa) should also be recorded during this period.
Stage 1 gas flow - Steady State (l/h)	0	

STAGE 3 WATER LEVEL OBSERVATION						
	Depth (from datum) to water (DTW): (m)	3.28	Time:	12:00:00	LNAPL Top (from datum) (m):	
	Depth (from datum) to well base (DTB): (m)	8.3	Purge Start:		DNAPL Top (from datum) (m):	
	Hole Purged: Yes / No	No	Purge End:		Water Observations:	
	Purge Volume: (ltrs)		Post-Purge (DTW) (m)			



Post testing remarks:	Samples Taken: Yes / No	No
	Sample Media: Gas/Water	N/A
	Gas Cannister Start (mb)	
	Gas Cannister End (mb)	
	Gas Cannister Duration (mins)	

Depth (from datum)	Sample Ref	Type (EW / G)	Container

RSK	Contract Name:	EAF	Data Collected By:	Jagan Raj
	Project Manager / Engineer:	James Bloore	Checked:	
	Contract Ref:	315531	Page number:	

GAS MONITORING FIELD SHEET

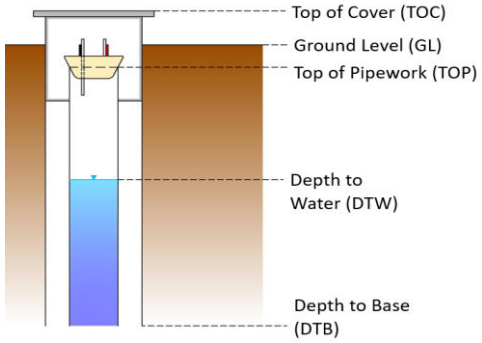
Monitoring Date:	14.11.2024	Measurement datum: TOC / GL / TOP / Other	TOC	Offset to GL (m):			0
Pre-Testing Remarks:		Air Temperature: °C	16 °C	Device:	GA5000		
Falling pressure		Weather:	Cloudy, dry ground	Serial Number:	NA		
		Ground Conditions:	Dry	Daily Check:			
		Wind: NONE / LIGHT / MEDIUM / STRONG		Light			
		Tidal State: (if applicable) High / Low / Rising / Falling		Rising			
Exploratory Position ID:	BH301	Monitoring Round Number:	5	Test Number:	1		
Install Type: SINGLE / DOUBLE	Single	Pipe Ref: 1) Shallow 2) Deep	Shallow	Pipe Diameter: 19mm/ 40mm / 50mm / Other (mm)	50		

Time of Monitoring (hh:mm)	Flow readings	Gas readings	Atmospheric Pressure (mb)	Differential Pressure (mb)	Gas tap: SINGLE / DOUBLE	
Time Start (hh:mm)	13:11	13:11	1032	0	Observations (e.g. on-site activities):	
Time End (hh:mm)	13:14	13:21				

Stage 1 Flow Readings	**Stage 1** Flow Readings	**Stage 2** Gas Monitoring:	Methane (%/vol)	Carbon Dioxide (%/vol)	Oxygen (%/vol)	Carbon monoxide (ppm)	Hydrogen sulphide (ppm)	LEL (%)	PID (ppm)
Time of flow monitoring (sec)	Flow Reading (l/hr)	Time of gas monitoring (sec)							
0	0	0	0.1	0.1	21.1	1			
5	0	15	0.1	0	17.2	13			
10	0	30	0.2	0	15.9	1			
15	0	60	0.2	0	15.8				
20		90	0.2	0	15.8				
25		120	0.2	0	15.8				
30		180							
40		240							
50		300							
60		360							
90		420							
120		480							
150		540							
180		600							

Stage 1 gas flow - Peak (l/h)	0	**Note:** Flow should be recorded at 5 second intervals up to 30 seconds, 10 second intervals to 2 minutes and 30 second intervals up to 3 minutes or until steady-state readings are obtained. Typically, steady state conditions occur within 30 seconds to a minute. The differential pressure reading (in Pa) should also be recorded during this period.
Stage 1 gas flow - Steady State (l/h)	0	

STAGE 3 WATER LEVEL OBSERVATION						
	Depth (from datum) to water (DTW): (m)	1.4	Time:	13:11:00	LNAPL Top (from datum) (m):	
	Depth (from datum) to well base (DTB): (m)	20.1	Purge Start:		DNAPL Top (from datum) (m):	
	Hole Purged: Yes / No	No	Purge End:		Water Observations:	
	Purge Volume: (ltrs)		Post-Purge (DTW) (m)			



Post testing remarks:		
	Samples Taken: Yes / No	No
	Sample Media: Gas/Water	N/A
	Gas Cannister Start (mb)	
	Gas Cannister End (mb)	
	Gas Cannister Duration (mins)	

Depth (from datum)	Sample Ref	Type (EW / G)	Container

RSK	Contract Name:	EAF	Data Collected By:	Jagan Raj
	Project Manager / Engineer:	James Bloore	Checked:	
	Contract Ref:	315531	Page number:	

GAS MONITORING FIELD SHEET

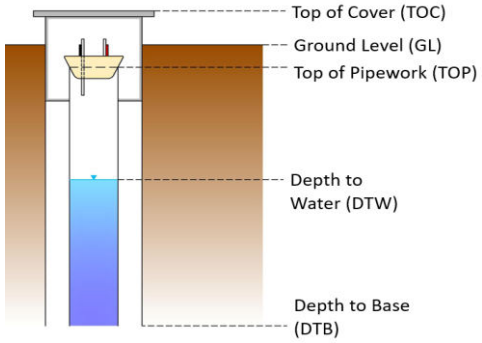
Monitoring Date:	14.11.2024	Measurement datum: TOC / GL / TOP / Other	TOC	Offset to GL (m):			0.25
Pre-Testing Remarks:		Air Temperature: °C	16°C	Device:			GA5000
Falling presure		Weather:	Cloudy, dry ground	Serial Number:			NA
		Ground Conditions:	Dry	Daily Check:			
		Wind: NONE / LIGHT / MEDIUM / STRONG		Light			
		Tidal State: (if applicable) High / Low / Rising / Falling		Rising			
Exploratory Position ID:	BH311	Monitoring Round Number:	5	Test Number:	1		
Install Type: SINGLE / DOUBLE	Single	Pipe Ref: 1) Shallow 2) Deep	Shallow	Pipe Diameter: 19mm/ 40mm / 50mm / Other (mm)	50		

Time of Monitoring (hh:mm)	Flow readings	Gas readings	Atmospheric Pressure (mb)	Differential Pressure (mb)	Gas tap: SINGLE / DOUBLE	Single
Time Start (hh:mm)	11:11	11:11	1032	0	Observations (e.g. on-site activities):	
Time End (hh:mm)	11:14	11:21				

Stage 1 Flow Readings	**Stage 1** Flow Readings	**Stage 2** Gas Monitoring:	Methane (%/vol)	Carbon Dioxide (%/vol)	Oxygen (%/vol)	Carbon monoxide (ppm)	Hydrogen sulphide (ppm)	LEL (%)	PID (ppm)
Time of flow monitoring (sec)	Flow Reading (l/hr)	Time of gas monitoring (sec)							
0	0	0	1.1	0.3	20.1				
5	0	15	5.8	0	18.3	1			
10	0	30	5.9	0	17.9	1			
15	0	60	5.9	0	17.9	2			
20	0	90	5.9	0	17.9	2			
25		120	5.9	0	17.9	2			
30		180	5.9	0	17.9	2			
40		240							
50		300							
60		360							
90		420							
120		480							
150		540							
180		600							

Stage 1 gas flow - Peak (l/h)	0	**Note:** Flow should be recorded at 5 second intervals up to 30 seconds, 10 second intervals to 2 minutes and 30 second intervals up to 3 minutes or until steady-state readings are obtained. Typically, steady state conditions occur within 30 seconds to a minute. The differential pressure reading (in Pa) should also be recorded during this period.
Stage 1 gas flow - Steady State (l/h)	0	

STAGE 3 WATER LEVEL OBSERVATION						
	Depth (from datum) to water (DTW): (m)	7.33	Time:	11:11:00	LNAPL Top (from datum) (m):	
	Depth (from datum) to well base (DTB): (m)	8.1	Purge Start:		DNAPL Top (from datum) (m):	
	Hole Purged: Yes / No	No	Purge End:		Water Observations:	
	Purge Volume: (ltrs)		Post-Purge (DTW) (m)			



Post testing remarks:	Samples Taken: Yes / No	No
	Sample Media: Gas/Water	N/A
	Gas Cannister Start (mb)	
	Gas Cannister End (mb)	
	Gas Cannister Duration (mins)	

Depth (from datum)	Sample Ref	Type (EW / G)	Container

RSK	Contract Name:	EAF	Data Collected By:	Jagan Raj
	Project Manager / Engineer:	James Bloore	Checked:	
	Contract Ref:	315531	Page number:	

GAS MONITORING FIELD SHEET

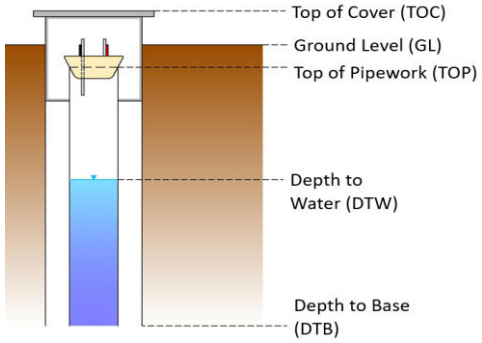
Monitoring Date:	14.11.2024	Measurement datum: TOC / GL / TOP / Other	TOC	Offset to GL (m):	0
Pre-Testing Remarks:		Air Temperature: °C	16 °C	Device:	GA5000
Falling presure		Weather:	Cloudy, dry ground	Serial Number:	NA
		Ground Conditions:	Dry	Daily Check:	
		Wind: NONE / LIGHT / MEDIUM / STRONG		Light	
		Tidal State: (if applicable) High / Low / Rising / Falling		Rising	
Exploratory Position ID:	BH315	Monitoring Round Number:	5	Test Number:	1
Install Type: SINGLE / DOUBLE	Single	Pipe Ref: 1) Shallow 2) Deep	Shallow	Pipe Diameter: 19mm/ 40mm / 50mm / Other (mm)	50

Time of Monitoring (hh:mm)	Flow readings	Gas readings	Atmospheric Pressure (mb)	Differential Pressure (mb)	Gas tap: SINGLE / DOUBLE	Double
Time Start (hh:mm)	13:39	13:39	1031	0	Observations (e.g. on-site activities):	
Time End (hh:mm)	13:42	13:49				

Stage 1 Flow Readings	**Stage 1** Flow Readings	**Stage 2** Gas Monitoring:	Methane (%/vol)	Carbon Dioxide (%/vol)	Oxygen (%/vol)	Carbon monoxide (ppm)	Hydrogen sulphide (ppm)	LEL (%)	PID (ppm)
Time of flow monitoring (sec)	Flow Reading (l/hr)	Time of gas monitoring (sec)							
0	0	0	0.2	0	21.3				
5	0	15	0	0.1	20.1				
10	0	30	0	0.1	20.1				
15	0	60	0	0.1	20.1	2			
20		90							
25		120							
30		180							
40		240							
50		300							
60		360							
90		420							
120		480							
150		540							
180		600							

Stage 1 gas flow - Peak (l/h)	0	**Note:** Flow should be recorded at 5 second intervals up to 30 seconds, 10 second intervals to 2 minutes and 30 second intervals up to 3 minutes or until steady-state readings are obtained. Typically, steady state conditions occur within 30 seconds to a minute. The differential pressure reading (in Pa) should also be recorded during this period.
Stage 1 gas flow - Steady State (l/h)	0	

STAGE 3 WATER LEVEL OBSERVATION						
	Depth (from datum) to water (DTW): (m)	1.32	Time:	13:39:00	LNAPL Top (from datum) (m):	
	Depth (from datum) to well base (DTB): (m)	15.35	Purge Start:		DNAPL Top (from datum) (m):	
	Hole Purged: Yes / No	No	Purge End:		Water Observations:	
	Purge Volume: (ltrs)		Post-Purge (DTW) (m)			



Post testing remarks:	Samples Taken: Yes / No	No
	Sample Media: Gas/Water	N/A
	Gas Cannister Start (mb)	
	Gas Cannister End (mb)	
	Gas Cannister Duration (mins)	

Depth (from datum)	Sample Ref	Type (EW / G)	Container

RSK	Contract Name:	EAF	Data Collected By:	Jagan Raj
	Project Manager / Engineer:	James Bloore	Checked:	
	Contract Ref:	315531	Page number:	

GAS MONITORING FIELD SHEET

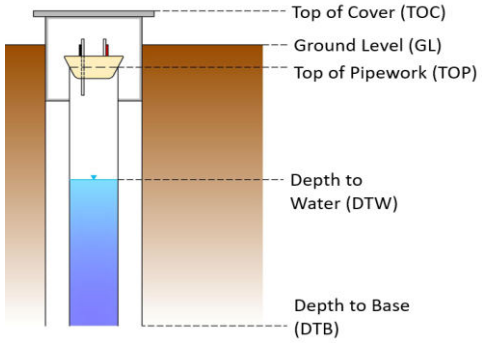
Monitoring Date:	14.11.2024	Measurement datum: TOC / GL / TOP / Other	TOC	Offset to GL (m):	0.4
Pre-Testing Remarks:		Air Temperature: °C	16 °C	Device:	GA5000
Falling presure		Weather:	Cloudy, dry ground	Serial Number:	NA
		Ground Conditions:	Dry	Daily Check:	
		Wind: NONE / LIGHT / MEDIUM / STRONG		Light	
		Tidal State: (if applicable) High / Low / Rising / Falling		Rising	
Exploratory Position ID:	BH317	Monitoring Round Number:	5	Test Number:	1
Install Type: SINGLE / DOUBLE	Single	Pipe Ref: 1) Shallow 2) Deep	Shallow	Pipe Diameter: 19mm/ 40mm / 50mm / Other (mm)	50

Time of Monitoring (hh:mm)	Flow readings	Gas readings	Atmospheric Pressure (mb)	Differential Pressure (mb)	Gas tap: SINGLE / DOUBLE	Single
Time Start (hh:mm)	09:55	09:55	1032	0	Observations (e.g. on-site activities):	
Time End (hh:mm)	09:58	10:05				

Stage 1 Flow Readings	**Stage 1** Flow Readings	**Stage 2** Gas Monitoring:	Methane (%/vol)	Carbon Dioxide (%/vol)	Oxygen (%/vol)	Carbon monoxide (ppm)	Hydrogen sulphide (ppm)	LEL (%)	PID (ppm)
Time of flow monitoring (sec)	Flow Reading (l/hr)	Time of gas monitoring (sec)							
0	0	0	0	1	21	1			
5	0	15	93.2	1.9	12				
10	0.1	30	93.9	2	1.5	1	0	3	
15	0.1	60	94	2	0.3	1		3	
20	0.1	90	94.1	2	0.2	1		3	
25	0.1	120	94.1	2	0.2	1			
30	0.1	180	94.1	2	0.2	1		3	
40		240	94.1	2	0.2	1		3	
50		300	94.1	2	0.2	1		3	
60		360							
90		420							
120		480							
150		540							
180		600							

Stage 1 gas flow - Peak (l/h)	0	**Note:** Flow should be recorded at 5 second intervals up to 30 seconds, 10 second intervals to 2 minutes and 30 second intervals up to 3 minutes or until steady-state readings are obtained. Typically, steady state conditions occur within 30 seconds to a minute. The differential pressure reading (in Pa) should also be recorded during this period.
Stage 1 gas flow - Steady State (l/h)	0	

STAGE 3 WATER LEVEL OBSERVATION						
	Depth (from datum) to water (DTW): (m)	2.65	Time:	09:55:00	LNAPL Top (from datum) (m):	
	Depth (from datum) to well base (DTB): (m)	16.3	Purge Start:		DNAPL Top (from datum) (m):	
	Hole Purged: Yes / No	No	Purge End:		Water Observations:	
	Purge Volume: (ltrs)		Post-Purge (DTW) (m)			



Post testing remarks:	Samples Taken: Yes / No	No
	Sample Media: Gas/Water	N/A
	Gas Cannister Start (mb)	
	Gas Cannister End (mb)	
	Gas Cannister Duration (mins)	

Depth (from datum)	Sample Ref	Type (EW / G)	Container

RSK	Contract Name:	EAF	Data Collected By:	Jagan Raj
	Project Manager / Engineer:	James Bloore	Checked:	
	Contract Ref:	315531	Page number:	

GAS MONITORING FIELD SHEET

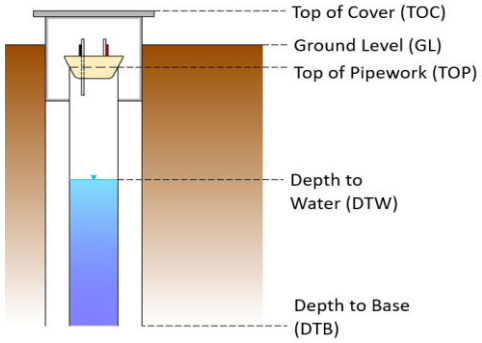
Monitoring Date:	14.11.2024	Measurement datum: TOC / GL / TOP / Other	TOC	Offset to GL (m):			0.25
Pre-Testing Remarks:		Air Temperature: °C	16 °C	Device:			GA5000
Falling presure		Weather:	Cloudy, dry ground	Serial Number:			NA
		Ground Conditions:	Dry	Daily Check:			
		Wind: NONE / LIGHT / MEDIUM / STRONG		Light			
		Tidal State: (if applicable) High / Low / Rising / Falling		Rising			
Exploratory Position ID:	BH322	Monitoring Round Number:	5	Test Number:	1		
Install Type: SINGLE / DOUBLE	Single	Pipe Ref: 1) Shallow 2) Deep	Shallow	Pipe Diameter: 19mm/ 40mm / 50mm / Other (mm)	50		

Time of Monitoring (hh:mm)	Flow readings	Gas readings	Atmospheric Pressure (mb)	Differential Pressure (mb)	Gas tap: SINGLE / DOUBLE	Single
Time Start (hh:mm)	11:28	11:28	1032	0	Observations (e.g. on-site activities):	
Time End (hh:mm)	11:31	11:38				

Stage 1 Flow Readings	**Stage 1** Flow Readings	**Stage 2** Gas Monitoring:	Methane (%/vol)	Carbon Dioxide (%/vol)	Oxygen (%/vol)	Carbon monoxide (ppm)	Hydrogen sulphide (ppm)	LEL (%)	PID (ppm)
Time of flow monitoring (sec)	Flow Reading (l/hr)	Time of gas monitoring (sec)							
0	0	0	0.1	0.1	20.8	1			
5	0.1	15	2.3	0.1	16	10			
10	0.2	30	4.1	0.1	15	2			
15	0.1	60	4.5	0.1	15	1			
20	0.1	90	4.5	0.1	15	1			
25	0.1	120	4.5	0.1	15	1			
30	0.1	180	4.5	0.1	15	1			
40		240							
50		300							
60		360							
90		420							
120		480							
150		540							
180		600							

Stage 1 gas flow - Peak (l/h)	0.2	**Note:** Flow should be recorded at 5 second intervals up to 30 seconds, 10 second intervals to 2 minutes and 30 second intervals up to 3 minutes or until steady-state readings are obtained. Typically, steady state conditions occur within 30 seconds to a minute. The differential pressure reading (in Pa) should also be recorded during this period.
Stage 1 gas flow - Steady State (l/h)	0	

STAGE 3 WATER LEVEL OBSERVATION						
	Depth (from datum) to water (DTW): (m)	3.37	Time:	11:28:00	LNAPL Top (from datum) (m):	
	Depth (from datum) to well base (DTB): (m)	11.1	Purge Start:		DNAPL Top (from datum) (m):	
	Hole Purged: Yes / No	No	Purge End:		Water Observations:	
	Purge Volume: (ltrs)		Post-Purge (DTW) (m)			



Post testing remarks:	Samples Taken: Yes / No	No
	Sample Media: Gas/Water	N/A
	Gas Cannister Start (mb)	
	Gas Cannister End (mb)	
	Gas Cannister Duration (mins)	

Depth (from datum)	Sample Ref	Type (EW / G)	Container

RSK	Contract Name:	EAF	Data Collected By:	Jagan Raj
	Project Manager / Engineer:	James Bloore	Checked:	
	Contract Ref:	315531	Page number:	

GAS MONITORING FIELD SHEET

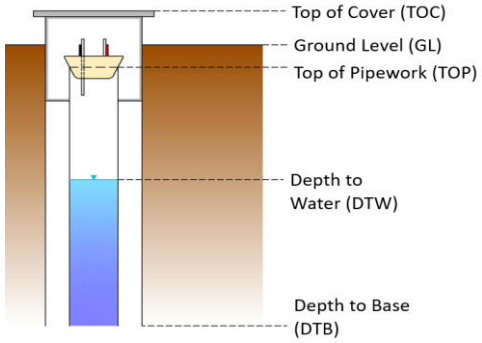
Monitoring Date:	14.11.2024	Measurement datum: TOC / GL / TOP / Other	TOC	Offset to GL (m):			0.35
Pre-Testing Remarks:		Air Temperature: °C	16 °C	Device:			GA5000
Falling presure		Weather:	Cloudy, dry ground	Serial Number:			NA
		Ground Conditions:	Dry	Daily Check:			
		Wind: NONE / LIGHT / MEDIUM / STRONG		Light			
		Tidal State: (if applicable) High / Low / Rising / Falling		Rising			
Exploratory Position ID:	BH324	Monitoring Round Number:	5	Test Number:	1		
Install Type: SINGLE / DOUBLE	Single	Pipe Ref: 1) Shallow 2) Deep	Shallow	Pipe Diameter: 19mm/ 40mm / 50mm / Other (mm)	50		

Time of Monitoring (hh:mm)	Flow readings	Gas readings	Atmospheric Pressure (mb)	Differential Pressure (mb)	Gas tap: SINGLE / DOUBLE	Single
Time Start (hh:mm)	11:39	11:39	1032	0	Observations (e.g. on-site activities):	
Time End (hh:mm)	11:42	11:49				

Stage 1 Flow Readings	**Stage 1** Flow Readings	**Stage 2** Gas Monitoring:	Methane (%/vol)	Carbon Dioxide (%/vol)	Oxygen (%/vol)	Carbon monoxide (ppm)	Hydrogen sulphide (ppm)	LEL (%)	PID (ppm)
Time of flow monitoring (sec)	Flow Reading (l/hr)	Time of gas monitoring (sec)							
0	0	0	0.4	0.1	20.7	1			
5	0	15	0.2	0	20.7	2			
10	0	30	0.2	0	20.7	1			
15	0	60	0.2	0	20.7	1			
20		90	0	0	21	1			
25		120	0	0	21	0			
30		180							
40		240							
50		300							
60		360							
90		420							
120		480							
150		540							
180		600							

Stage 1 gas flow - Peak (l/h)	0	**Note:** Flow should be recorded at 5 second intervals up to 30 seconds, 10 second intervals to 2 minutes and 30 second intervals up to 3 minutes or until steady-state readings are obtained. Typically, steady state conditions occur within 30 seconds to a minute. The differential pressure reading (in Pa) should also be recorded during this period.
Stage 1 gas flow - Steady State (l/h)	0	

STAGE 3 WATER LEVEL OBSERVATION						
	Depth (from datum) to water (DTW): (m)	1.68	Time:	11:39:00	LNAPL Top (from datum) (m):	
	Depth (from datum) to well base (DTB): (m)	15	Purge Start:		DNAPL Top (from datum) (m):	
	Hole Purged: Yes / No	No	Purge End:		Water Observations:	
	Purge Volume: (ltrs)		Post-Purge (DTW) (m)			



Post testing remarks:	Samples Taken: Yes / No	No
	Sample Media: Gas/Water	N/A
	Gas Cannister Start (mb)	
	Gas Cannister End (mb)	
	Gas Cannister Duration (mins)	

Depth (from datum)	Sample Ref	Type (EW / G)	Container

RSK	Contract Name:	EAF	Data Collected By:	Jagan Raj
	Project Manager / Engineer:	James Bloore	Checked:	
	Contract Ref:	315531	Page number:	

GAS MONITORING FIELD SHEET

Monitoring Date:	14.11.2024	Measurement datum: TOC / GL / TOP / Other	TOC	Offset to GL (m):	0.25

Pre-Testing Remarks:		Air Temperature: °C	16	Device:	GAS5000
Falling presure		Weather:	Cloudy, dry ground	Serial Number:	NA
		Ground Conditions:	Dry	Daily Check:	
		Wind: NONE / LIGHT / MEDIUM / STRONG		Light	
		Tidal State: (if applicable) High / Low / Rising / Falling		Rising	

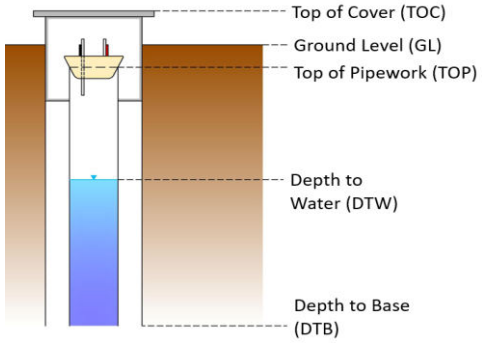
Exploratory Position ID:	BH328	Monitoring Round Number:	5	Test Number:	1
Install Type: SINGLE / DOUBLE	Single	Pipe Ref: 1) Shallow 2) Deep	Shallow	Pipe Diameter: 19mm/ 40mm / 50mm / Other (mm)	50

Time of Monitoring (hh:mm)	Flow readings	Gas readings	Atmospheric Pressure (mb)	Differential Pressure (mb)	Gas tap: SINGLE / DOUBLE	Single
Time Start (hh:mm)	10:59	10:59	1032	0	Observations (e.g. on-site activities):	
Time End (hh:mm)	11:02	11:09				

Stage 1 Flow Readings	**Stage 1** Flow Readings	**Stage 2** Gas Monitoring:	Methane (%/vol)	Carbon Dioxide (%/vol)	Oxygen (%/vol)	Carbon monoxide (ppm)	Hydrogen sulphide (ppm)	LEL (%)	PID (ppm)
Time of flow monitoring (sec)	Flow Reading (l/hr)	Time of gas monitoring (sec)							
0	0	0	0.4	0.1	20.7	1			
5	0	15	24.8	9.4	5	3			
10	0	30	24.9	9.5	0.4	4			
15	0	60	24.9	9.6	0.2	4			
20		90	25	9.6	0.1	4			
25		120	25	9.6	0.1	3			
30		180	25	9.6	0.1	3			
40		240	25	9.6	0.1	3			
50		300							
60		360							
90		420							
120		480							
150		540							
180		600							

Stage 1 gas flow - Peak (l/h)	0	**Note:** Flow should be recorded at 5 second intervals up to 30 seconds, 10 second intervals to 2 minutes and 30 second intervals up to 3 minutes or until steady-state readings are obtained. Typically, steady state conditions occur within 30 seconds to a minute. The differential pressure reading (in Pa) should also be recorded during this period.
Stage 1 gas flow - Steady State (l/h)	0	

STAGE 3 WATER LEVEL OBSERVATION	Depth (from datum) to water (DTW): (m)	10.75	Time:	10:59:00	LNAPL Top (from datum) (m):	
	Depth (from datum) to well base (DTB): (m)	17.9	Purge Start:		DNAPL Top (from datum) (m):	
	Hole Purged: Yes / No	No	Purge End:		Water Observations:	
	Purge Volume: (ltrs)		Post-Purge (DTW) (m)			



Post testing remarks:	Samples Taken: Yes / No	No	
	Sample Media: Gas/Water	N/A	
	Gas Cannister Start (mb)		
	Gas Cannister End (mb)		
	Gas Cannister Duration (mins)		

Depth (from datum)	Sample Ref	Type (EW / G)	Container

RSK	Contract Name:	EAF	Data Collected By:	Jagan Raj
	Project Manager / Engineer:	James Bloore	Checked:	
	Contract Ref:	315531	Page number:	

GAS MONITORING FIELD SHEET

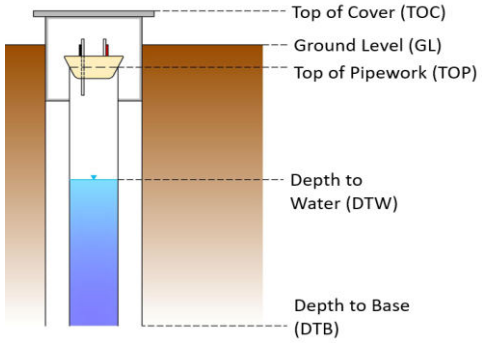
Monitoring Date:	14.11.2024	Measurement datum: TOC / GL / TOP / Other	TOC	Offset to GL (m):	0.3
Pre-Testing Remarks:		Air Temperature: °C	16	Device:	GAS5000
		Weather:	Dry	Serial Number:	NA
		Ground Conditions:	Dry	Daily Check:	
		Wind: NONE / LIGHT / MEDIUM / STRONG		Light	
		Tidal State: (if applicable) High / Low / Rising / Falling		NA	
Exploratory Position ID:	BH329	Monitoring Round Number:	5	Test Number:	1
Install Type: SINGLE / DOUBLE	Single	Pipe Ref: 1) Shallow 2) Deep	Shallow	Pipe Diameter: 19mm/ 40mm / 50mm / Other (mm)	50

Time of Monitoring (hh:mm)	Flow readings	Gas readings	Atmospheric Pressure (mb)	Differential Pressure (mb)	Gas tap: SINGLE / DOUBLE	Single
Time Start (hh:mm)	10:39	10:39	1031	0.05	Observations (e.g. on-site activities):	
Time End (hh:mm)	10:42	10:49				

Stage 1 Flow Readings	**Stage 1** Flow Readings	**Stage 2** Gas Monitoring:	Methane (%/vol)	Carbon Dioxide (%/vol)	Oxygen (%/vol)	Carbon monoxide (ppm)	Hydrogen sulphide (ppm)	LEL (%)	PID (ppm)
Time of flow monitoring (sec)	Flow Reading (l/hr)	Time of gas monitoring (sec)							
0	0	0	8	0	21				
5	0	15	1.7	0.1	17.9			80	
10	0	30	2.9	0.2	16.8	1		88	
15	0	60	3.2	0.2	16.7	1		80	
20	0	90	3.3	0.2	16.7	1		88	
25		120	3.3	0.2	16.7	1		80	
30		180	3.3	0.2	16.7	1		80	
40		240	3.3	0.2	16.7	1		80	
50		300							
60		360							
90		420							
120		480							
150		540							
180		600							

Stage 1 gas flow - Peak (l/h)	0	**Note:** Flow should be recorded at 5 second intervals up to 30 seconds, 10 second intervals to 2 minutes and 30 second intervals up to 3 minutes or until steady-state readings are obtained. Typically, steady state conditions occur within 30 seconds to a minute. The differential pressure reading (in Pa) should also be recorded during this period.
Stage 1 gas flow - Steady State (l/h)	0	

STAGE 3 WATER LEVEL OBSERVATION						
	Depth (from datum) to water (DTW): (m)	11.3	Time:	10:39:00	LNAPL Top (from datum) (m):	
	Depth (from datum) to well base (DTB): (m)	11.5	Purge Start:		DNAPL Top (from datum) (m):	
	Hole Purged: Yes / No	No	Purge End:		Water Observations:	
	Purge Volume: (ltrs)		Post-Purge (DTW) (m)			



Post testing remarks:		
	Samples Taken: Yes / No	No
	Sample Media: Gas/Water	N/A
	Gas Cannister Start (mb)	
	Gas Cannister End (mb)	
	Gas Cannister Duration (mins)	

Depth (from datum)	Sample Ref	Type (EW / G)	Container

RSK	Contract Name:	EAF	Data Collected By:	Jagan Raj
	Project Manager / Engineer:	James Bloore	Checked:	
	Contract Ref:	315531	Page number:	

GAS MONITORING FIELD SHEET

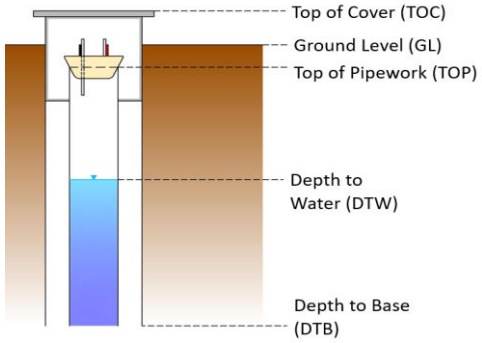
Monitoring Date:	14.11.2024	Measurement datum: TOC / GL / TOP / Other	TOC	Offset to GL (m):			0.2
Pre-Testing Remarks:		Air Temperature: °C	16°C	Device:			GA5000
Falling presure		Weather:	Cloudy, dry ground	Serial Number:			NA
		Ground Conditions:	Dry	Daily Check:			
		Wind: NONE / LIGHT / MEDIUM / STRONG		Light			
		Tidal State: (if applicable) High / Low / Rising / Falling		Rising			
Exploratory Position ID:	BH330	Monitoring Round Number:	5	Test Number:	1		
Install Type: SINGLE / DOUBLE	Single	Pipe Ref: 1) Shallow 2) Deep	Shallow	Pipe Diameter: 19mm/ 40mm / 50mm / Other (mm)	50		

Time of Monitoring (hh:mm)	Flow readings	Gas readings	Atmospheric Pressure (mb)	Differential Pressure (mb)	Gas tap: SINGLE / DOUBLE	Double
Time Start (hh:mm)	12:07	12:07	1032	0	Observations (e.g. on-site activities):	
Time End (hh:mm)	12:10	12:17				

Stage 1 Flow Readings	**Stage 1** Flow Readings	**Stage 2** Gas Monitoring:	Methane (%/vol)	Carbon Dioxide (%/vol)	Oxygen (%/vol)	Carbon monoxide (ppm)	Hydrogen sulphide (ppm)	LEL (%)	PID (ppm)
Time of flow monitoring (sec)	Flow Reading (l/hr)	Time of gas monitoring (sec)							
0	0.1	0	0	0	21.1	1			
5	0.1	15	1.2	0.4	20.9	2			
10	0.1	30	1.2	0.4	19.9	1			
15	0.1	60	1.3	0.4	19.6	1			
20		90	1.2	0.4	19.6	1			
25		120	1.3	0.4	19.6	1			
30		180	1.3	0.4	19.6	1			
40		240							
50		300							
60		360							
90		420							
120		480							
150		540							
180		600							

Stage 1 gas flow - Peak (l/h)	0.1	**Note:** Flow should be recorded at 5 second intervals up to 30 seconds, 10 second intervals to 2 minutes and 30 second intervals up to 3 minutes or until steady-state readings are obtained. Typically, steady state conditions occur within 30 seconds to a minute. The differential pressure reading (in Pa) should also be recorded during this period.
Stage 1 gas flow - Steady State (l/h)	0.1	

STAGE 3 WATER LEVEL OBSERVATION						
	Depth (from datum) to water (DTW): (m)	2.15	Time:	12:07:00	LNAPL Top (from datum) (m):	
	Depth (from datum) to well base (DTB): (m)	32.1	Purge Start:		DNAPL Top (from datum) (m):	
	Hole Purged: Yes / No	No	Purge End:		Water Observations:	
	Purge Volume: (ltrs)		Post-Purge (DTW) (m)			



Post testing remarks:	Samples Taken: Yes / No	No
	Sample Media: Gas/Water	N/A
	Gas Cannister Start (mb)	
	Gas Cannister End (mb)	
	Gas Cannister Duration (mins)	

Depth (from datum)	Sample Ref	Type (EW / G)	Container

RSK	Contract Name:	EAF	Data Collected By:	Jagan Raj
	Project Manager / Engineer:	James Bloore	Checked:	
	Contract Ref:	315531	Page number:	

GAS MONITORING FIELD SHEET

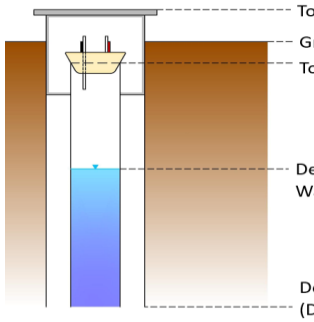
Monitoring Date:	14.11.2024	Measurement datum: TOC / GL / TOP / Other	TOC	Offset to GL (m):		0.1
Pre-Testing Remarks:		Air Temperature: °C	16┬ C	Device:		GA5000
Falling pressure		Weather:	Cloudy, dry ground	Serial Number:		NA
		Ground Conditions:	Dry	Daily Check:		
		Wind: NONE / LIGHT / MEDIUM / STRONG		Light		
		Tidal State: (if applicable) High / Low / Rising / Falling		Rising		
Exploratory Position ID:	BH331	Monitoring Round Number:	5	Test Number:	1	
Install Type: SINGLE / DOUBLE	Single	Pipe Ref: 1) Shallow 2) Deep	Shallow	Pipe Diameter: 19mm/ 40mm / 50mm / Other (mm)		50

Time of Monitoring (hh:mm)	Flow readings	Gas readings	Atmospheric Pressure (mb)	Differential Pressure (mb)	Gas tap: SINGLE / DOUBLE	Single
Time Start (hh:mm)	12:00	12:00	0	0	Observations (e.g. on-site activities):	
Time End (hh:mm)	12:03	12:10				

Stage 1 Flow Readings	**Stage 1** Flow Readings	**Stage 2** Gas Monitoring:	Methane (%/vol)	Carbon Dioxide (%/vol)	Oxygen (%/vol)	Carbon monoxide (ppm)	Hydrogen sulphide (ppm)	LEL (%)	PID (ppm)
Time of flow monitoring (sec)	Flow Reading (l/hr)	Time of gas monitoring (sec)							
0	0	0	0	0	21.2	1			
5	0	15	0.3	0.1	20.4	4			
10	0	30	0.4	0.1	20.3	1			
15	0	60	0.4	0.1	20.3	1			
20		90	0.4	0.1	20.3	1			
25		120	0.4	0.1	20.3	1			
30		180							
40		240							
50		300							
60		360							
90		420							
120		480							
150		540							
180		600							

Stage 1 gas flow - Peak (l/h)	0	**Note:** Flow should be recorded at 5 second intervals up to 30 seconds, 10 second intervals to 2 minutes and 30 second intervals up to 3 minutes or until steady-state readings are obtained. Typically, steady state conditions occur within 30 seconds to a minute. The differential pressure reading (in Pa) should also be recorded during this period.
Stage 1 gas flow - Steady State (l/h)	0	

STAGE 3 WATER LEVEL OBSERVATION						
	Depth (from datum) to water (DTW): (m)	3.24	Time:	12:00:00	LNAPL Top (from datum) (m):	
	Depth (from datum) to well base (DTB): (m)	8.3	Purge Start:		DNAPL Top (from datum) (m):	
	Hole Purged: Yes / No	No	Purge End:		Water Observations:	
	Purge Volume: (ltrs)		Post-Purge (DTW) (m)			



Post testing remarks:	Samples Taken: Yes / No	No
	Sample Media: Gas/Water	N/A
	Gas Cannister Start (mb)	
	Gas Cannister End (mb)	
	Gas Cannister Duration (mins)	

Depth (from datum)	Sample Ref	Type (EW / G)	Container

RSK	Contract Name:	EAF	Data Collected By:	Jagan Raj
	Project Manager / Engineer:	James Bloore	Checked:	
	Contract Ref:	315531	Page number:	

APPENDIX F
LABORATORY CERTIFICATES FOR SOIL ANALYSIS

Eurofins Chemtest Ltd
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

Amended Report

Report No.:	24-18337-7		
Initial Date of Issue:	01-Jul-2024	**Date of Re-Issue:**	29-Nov-2024
Re-Issue Details:	This report has been revised and directly supersedes 24-18337-6 in its entirety		
Client	RSK Geosciences		
Client Address:	Battle Gate Road Boxworth Cambridge CB23 4NN		
Contact(s):	Rachel Cann		
Project	315531 EAF Meltshop		
Quotation No.:	Q24-35208	**Date Received:**	11-Jun-2024
Order No.:	P02150967	**Date Instructed:**	20-Jun-2024
No. of Samples:	7		
Turnaround (Wkdays):	27	**Results Due:**	26-Jul-2024
Date Approved:	24-Jul-2024	**Subcon Results Due:**	26-Jul-2024
Approved By:			



Details: David Smith, Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

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Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

Amended Report

Report No.:	24-18339-2		
Initial Date of Issue:	01-Jul-2024	**Date of Re-Issue:**	29-Nov-2024
Re-Issue Details:	This report has been revised and directly supersedes 24-18339-1 in its entirety		
Client	RSK Geosciences		
Client Address:	Battle Gate Road Boxworth Cambridge CB23 4NN		
Contact(s):	Rachel Cann		
Project	EAF 315531 Port Tablet		
Quotation No.:	Q24-35208	**Date Received:**	11-Jun-2024
Order No.:	P02150967	**Date Instructed:**	20-Jun-2024
No. of Samples:	6		
Turnaround (Wkdays):	8	**Results Due:**	01-Jul-2024
Date Approved:	27-Jun-2024		

Approved By:



Details: David Smith, Technical Director

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Eurofins Chemtest Ltd
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

Amended Report

Report No.:	24-19025-2		
Initial Date of Issue:	01-Jul-2024	**Date of Re-Issue:**	29-Nov-2024
Re-Issue Details:	This report has been revised and directly supersedes 24-19025-1 in its entirety		
Client	RSK Geosciences		
Client Address:	Battle Gate Road Boxworth Cambridge CB23 4NN		
Contact(s):	Rachel Cann		
Project	EAF 315531 Port Talbet		
Quotation No.:	Q24-35208	**Date Received:**	17-Jun-2024
Order No.:	P02150967	**Date Instructed:**	20-Jun-2024
No. of Samples:	6		
Turnaround (Wkdays):	8	**Results Due:**	01-Jul-2024
Date Approved:	27-Jun-2024		
Approved By:			



Details: David Smith, Technical Director

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Eurofins Chemtest Ltd
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

Amended Report

Report No.:	24-19335-2		
Initial Date of Issue:	01-Jul-2024	**Date of Re-Issue:**	29-Nov-2024
Re-Issue Details:	This report has been revised and directly supersedes 24-19335-1 in its entirety		
Client	RSK Geosciences		
Client Address:	Battle Gate Road Boxworth Cambridge CB23 4NN		
Contact(s):	Rachel Cann		
Project	EAF 315531 Port Talber		
Quotation No.:	Q24-35208	**Date Received:**	19-Jun-2024
Order No.:	P02150967	**Date Instructed:**	20-Jun-2024
No. of Samples:	2		
Turnaround (Wkdays):	8	**Results Due:**	01-Jul-2024
Date Approved:	27-Jun-2024		
Approved By:			



Details: David Smith, Technical Director

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Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

Amended Report

Report No.:	24-19915-2		
Initial Date of Issue:	16-Jul-2024	**Date of Re-Issue:**	29-Nov-2024
Re-Issue Details:	This report has been revised and directly supersedes 24-19915-1 in its entirety		
Client	RSK Geosciences		
Client Address:	Battle Gate Road Boxworth Cambridge CB23 4NN		
Contact(s):	Rachel Cann		
Project	315531 EAF Project		
Quotation No.:	Q24-35208	**Date Received:**	24-Jun-2024
Order No.:	PO2150967	**Date Instructed:**	10-Jul-2024
No. of Samples:	8		
Turnaround (Wkdays):	5	**Results Due:**	16-Jul-2024
Date Approved:	16-Jul-2024		
Approved By:			



Details: David Smith, Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

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Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

Amended Report

Report No.:	24-21511-2		
Initial Date of Issue:	16-Jul-2024	**Date of Re-Issue:**	29-Nov-2024
Re-Issue Details:	This report has been revised and directly supersedes 24-21511-1 in its entirety		
Client	RSK Geosciences		
Client Address:	Battle Gate Road Boxworth Cambridge CB23 4NN		
Contact(s):	Rachel Cann		
Project	EAF Project		
Quotation No.:	Q24-35208	**Date Received:**	08-Jul-2024
Order No.:	P02150967	**Date Instructed:**	10-Jul-2024
No. of Samples:	5		
Turnaround (Wkdays):	5	**Results Due:**	16-Jul-2024
Date Approved:	16-Jul-2024		
Approved By:			



Details: David Smith, Technical Director

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Eurofins Chemtest Ltd
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

Amended Report

Report No.:	24-21980-5		
Initial Date of Issue:	19-Jul-2024	**Date of Re-Issue:**	29-Nov-2024
Re-Issue Details:	This report has been revised and directly supersedes 24-21980-4 in its entirety		
Client	RSK Geosciences		
Client Address:	Battle Gate Road Boxworth Cambridge CB23 4NN		
Contact(s):	James Bloore		
Project	315531 Port Talbot (Tata Steel EAF)		
Quotation No.:	Q24-35208	**Date Received:**	11-Jul-2024
Order No.:	P02150967	**Date Instructed:**	12-Jul-2024
No. of Samples:	4		
Turnaround (Wkdays):	12	**Results Due:**	29-Jul-2024
Date Approved:	31-Jul-2024		
Approved By:			



Details: David Smith, Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Eurofins Chemtest Ltd
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

Amended Report

Report No.:	24-22474-5		
Initial Date of Issue:	21-Jul-2024	**Date of Re-Issue:**	29-Nov-2024
Re-Issue Details:	This report has been revised and directly supersedes 24-22474-4 in its entirety		
Client	RSK Geosciences		
Client Address:	Battle Gate Road Boxworth Cambridge CB23 4NN		
Contact(s):	James Bloore		
Project	315531 Port Talbot - TATA STEEL EAF (Project Invictus)		
Quotation No.:	Q24-35208	**Date Received:**	16-Jul-2024
Order No.:	P02150967	**Date Instructed:**	16-Jul-2024
No. of Samples:	5		
Turnaround (Wkdays):	9	**Results Due:**	26-Jul-2024
Date Approved:	24-Jul-2024		

Approved By:



Details: David Smith, Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Eurofins Chemtest Ltd
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

Amended Report

Report No.:	24-24075-3		
Initial Date of Issue:	12-Aug-2024	**Date of Re-Issue:**	29-Nov-2024
Re-Issue Details:	This report has been revised and directly supersedes 24-24075-2 in its entirety		
Client	RSK Geosciences		
Client Address:	Battle Gate Road Boxworth Cambridge CB23 4NN		
Contact(s):	James Bloore		
Project	315531 TATA STEEL WAF - PORT TALBOT		
Quotation No.:	Q24-35208	**Date Received:**	29-Jul-2024
Order No.:	13653	**Date Instructed:**	29-Jul-2024
No. of Samples:	9		
Turnaround (Wkdays):	11	**Results Due:**	12-Aug-2024
Date Approved:	12-Aug-2024		

Approved By:



Details: David Smith, Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Eurofins Chemtest Ltd
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

Amended Report

Report No.:	24-25386-4		
Initial Date of Issue:	19-Aug-2024	**Date of Re-Issue:**	29-Nov-2024
Re-Issue Details:	This report has been revised and directly supersedes 24-25386-3 in its entirety		
Client	RSK Geosciences		
Client Address:	Battle Gate Road Boxworth Cambridge CB23 4NN		
Contact(s):	James Bloore		
Project	315531		
Quotation No.:	Q24-35208	**Date Received:**	08-Aug-2024
Order No.:	P02150967	**Date Instructed:**	08-Aug-2024
No. of Samples:	3		
Turnaround (Wkdays):	5	**Results Due:**	14-Aug-2024
Date Approved:	19-Aug-2024		
Approved By:			



Details: David Smith, Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Eurofins Chemtest Ltd
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

Amended Report

Report No.:	24-25641-4		
Initial Date of Issue:	15-Aug-2024	**Date of Re-Issue:**	29-Nov-2024
Re-Issue Details:	This report has been revised and directly supersedes 24-25641-3 in its entirety		
Client	RSK Geosciences		
Client Address:	Battle Gate Road Boxworth Cambridge CB23 4NN		
Contact(s):	James Bloore		
Project	315531		
Quotation No.:	Q24-35208	**Date Received:**	11-Aug-2024
Order No.:	315531	**Date Instructed:**	11-Aug-2024
No. of Samples:	7		
Turnaround (Wkdays):	5	**Results Due:**	15-Aug-2024
Date Approved:	15-Aug-2024		
Approved By:			



Details: David Smith, Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Eurofins Chemtest Ltd
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

Amended Report

Report No.:	24-25899-3		
Initial Date of Issue:	20-Aug-2024	**Date of Re-Issue:**	29-Nov-2024
Re-Issue Details:	This report has been revised and directly supersedes 24-25899-2 in its entirety		
Client	RSK Geosciences		
Client Address:	Battle Gate Road Boxworth Cambridge CB23 4NN		
Contact(s):	James Bloore		
Project	EAF Meltshop Project		
Quotation No.:	Q24-35208	**Date Received:**	13-Aug-2024
Order No.:	P02150967	**Date Instructed:**	13-Aug-2024
No. of Samples:	6		
Turnaround (Wkdays):	6	**Results Due:**	20-Aug-2024
Date Approved:	20-Aug-2024	**Subcon Results Due:**	20-Aug-2024

Approved By:



Details: David Smith, Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Eurofins Chemtest Ltd
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

Amended Report

Report No.:	24-26534-4		
Initial Date of Issue:	26-Sep-2024	**Date of Re-Issue:**	29-Nov-2024
Re-Issue Details:	This report has been revised and directly supersedes 24-26534-3 in its entirety		
Client	RSK Geosciences		
Client Address:	18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT		
Contact(s):	James Bloore		
Project	315531 EAF Meltshop Project		
Quotation No.:	Q24-35208	**Date Received:**	19-Aug-2024
Order No.:	P02150967	**Date Instructed:**	17-Sep-2024
No. of Samples:	6		
Turnaround (Wkdays):	5	**Results Due:**	23-Sep-2024
Date Approved:	26-Sep-2024		
Approved By:			



Details: David Smith, Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Eurofins Chemtest Ltd
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

Amended Report

Report No.:	24-27128-4		
Initial Date of Issue:	10-Sep-2024	**Date of Re-Issue:**	29-Nov-2024
Re-Issue Details:	This report has been revised and directly supersedes 24-27128-3 in its entirety		
Client	RSK Geosciences		
Client Address:	18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT		
Contact(s):	James Bloore		
Project	315531 EAF Meltshop Project, Port Talbot		
Quotation No.:	Q24-35208	**Date Received:**	22-Aug-2024
Order No.:	P02150967	**Date Instructed:**	04-Sep-2024
No. of Samples:	4		
Turnaround (Wkdays):	5	**Results Due:**	10-Sep-2024
Date Approved:	16-Sep-2024		

Approved By:



Details: David Smith, Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Eurofins Chemtest Ltd
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

Amended Report

Report No.:	24-27793-6		
Initial Date of Issue:	09-Sep-2024	**Date of Re-Issue:**	29-Nov-2024
Re-Issue Details:	This report has been revised and directly supersedes 24-27793-5 in its entirety		
Client	RSK Geosciences		
Client Address:	Battle Gate Road Boxworth Cambridge CB23 4NN		
Contact(s):	James Bloore		
Project	315531 EAF Meltshop		
Quotation No.:	Q24-35208	**Date Received:**	30-Aug-2024
Order No.:	P02150967	**Date Instructed:**	04-Sep-2024
No. of Samples:	3		
Turnaround (Wkdays):	5	**Results Due:**	10-Sep-2024
Date Approved:	16-Sep-2024		

Approved By:



Details: David Smith, Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Eurofins Chemtest Ltd
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

Amended Report

Report No.:	24-29969-3		
Initial Date of Issue:	25-Sep-2024	**Date of Re-Issue:**	29-Nov-2024
Re-Issue Details:	This report has been revised and directly supersedes 24-29969-2 in its entirety		
Client	RSK Geosciences		
Client Address:	18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT		
Contact(s):	James Bloore		
Project	315531		
Quotation No.:	Q24-35208	**Date Received:**	17-Sep-2024
Order No.:	P02150967	**Date Instructed:**	17-Sep-2024
No. of Samples:	3		
Turnaround (Wkdays):	5	**Results Due:**	23-Sep-2024
Date Approved:	25-Sep-2024		

Approved By:



Details: David Smith, Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Soil

Project: 315531 EAF Meltshop

Client: RSK Geosciences				**Chemtest Job No.:**		24-18337	24-18337	24-18337	24-18337	24-18337	24-18337	24-18337	24-18339
Quotation No.: Q24-35208				**Chemtest Sample ID.:**		1819250	1819251	1819252	1819253	1819254	1819255	1819256	1819263
Order No.: P02150967				Client Sample Ref.:									
				Client Sample ID.:									
				Sample Location:		BH323	BH317	BH317	BH317	BH317	BH317	BH317	BH322
				Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Top Depth (m):		0.30	2.2	1.5	0.70	6.50	3.3	4.10	0.20
				Bottom Depth (m):									
				Date Sampled:		03-May-2024	07-Jun-2024	07-Jun-2024	07-Jun-2024	07-Jun-2024	07-Jun-2024	07-Jun-2024	07-May-2024
				Asbestos Lab:		NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**								
ACM Type		U	2192		N/A	-	-	-	-	-	-	-	-
Asbestos Identification		U	2192		N/A	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Asbestos by Gravimetry		U	2192	%	0.001								
Total Asbestos		U	2192	%	0.001								
Moisture		N	2030	%	0.020	2.4	16	8.6	7.5	18	27	20	6.0
Soil Colour		N	2040		N/A	Black	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones	Stones	Stones	None	Stones	Stones	Stones
Soil Texture		N	2040		N/A	Sand	Sand	Sand	Sand	Clay	Sand	Clay	Sand
pH at 20C		M	2010		4.0								
Arsenic		M	2455	mg/kg	0.5	2.6	9.0	14	5.7	18	11	21	3.1
Cadmium		M	2455	mg/kg	0.10	0.64	< 0.10	0.56	0.40	< 0.10	< 0.10	0.22	0.13
Chromium		M	2455	mg/kg	0.5	200	29	1100	1400	36	43	18	680
Copper		M	2455	mg/kg	0.50	14	3.4	52	42	11	40	27	24
Mercury		M	2455	mg/kg	0.05	< 0.05	< 0.05	0.10	0.07	< 0.05	0.09	< 0.05	0.05
Nickel		M	2455	mg/kg	0.50	7.3	4.5	34	20	33	36	20	14
Lead		M	2455	mg/kg	0.50	25	11	60	64	22	24	27	62
Selenium		M	2455	mg/kg	0.25	< 0.25	0.39	1.7	0.72	0.72	0.75	0.52	3.3
Zinc		M	2455	mg/kg	0.50	67	22	190	200	92	89	85	110
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	0.66	< 0.50	< 0.50	< 0.50	
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	[B] < 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	[B] < 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	[B] < 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	[B] < 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	[B] < 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	[B] < 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	[B] < 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	[B] < 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	[B] < 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	[B] < 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	[B] < 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	[B] < 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	[B] 4.4	5.6	7.4	5.9	3.3	9.4	6.4	[B] 2.7
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	[B] 3.1	6.3	12	6.1	1.2	6.1	4.8	[B] < 1.0
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	[B] 11	2.9	35	74	< 2.0	3.5	3.4	[B] < 2.0
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	[B] 180	< 3.0	280	880	< 3.0	< 3.0	10	[B] < 3.0
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	[B] < 10	< 10	32	110	< 10	< 10	< 10	[B] < 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	[B] 200	15	340	970	5.5	19	25	[B] < 5.0
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	[B] 200	15	370	1100	< 10	19	25	[B] < 10
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	[B] < 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	[B] < 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	[B] < 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	[B] < 0.05

Results - Soil

Project: 315531 EAF Meltshop

Client: RSK Geosciences				**Chemtest Job No.:**		24-18337	24-18337	24-18337	24-18337	24-18337	24-18337	24-18337	24-18339
Quotation No.: Q24-35208				**Chemtest Sample ID.:**		1819250	1819251	1819252	1819253	1819254	1819255	1819256	1819263
Order No.: P02150967				Client Sample Ref.:									
				Client Sample ID.:									
				Sample Location:		BH323	BH317	BH317	BH317	BH317	BH317	BH317	BH322
				Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Top Depth (m):		0.30	2.2	1.5	0.70	6.50	3.3	4.10	0.20
				Bottom Depth (m):									
				Date Sampled:		03-May-2024	07-Jun-2024	07-Jun-2024	07-Jun-2024	07-Jun-2024	07-Jun-2024	07-Jun-2024	07-May-2024
				Asbestos Lab:		NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**								
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	[B] < 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	[B] < 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	[B] < 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	[B] < 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	[B] < 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	[B] < 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	[B] < 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2.2	[B] < 1.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	[B] 6.7	3.0	3.6	6.5	3.3	3.8	3.4	[B] 3.7
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	[B] 5.9	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	19	[B] < 2.0
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	[B] 2.5	1.1	16	42	< 1.0	1.2	33	[B] 1.2
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	[B] 13	< 5.0	< 5.0	6.5	< 5.0	< 5.0	24	[B] < 5.0
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	[B] 15	< 10	16	49	< 10	< 10	57	[B] < 10
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	[B] < 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	[B] < 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	[B] 210	18	340	980	< 10	24	49	[B] < 10
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	[B] 220	19	390	1100	< 10	25	82	[B] < 10
Naphthalene		M	2700	mg/kg	0.10	[B] < 0.10	< 0.10	< 0.10	0.59	< 0.10	2.3	< 0.10	
Acenaphthylene		M	2700	mg/kg	0.10	[B] < 0.10	< 0.10	< 0.10	0.18	< 0.10	0.41	< 0.10	
Acenaphthene		M	2700	mg/kg	0.10	[B] < 0.10	< 0.10	< 0.10	0.21	< 0.10	0.81	< 0.10	
Fluorene		M	2700	mg/kg	0.10	[B] < 0.10	< 0.10	< 0.10	0.23	< 0.10	1.0	< 0.10	
Phenanthrene		M	2700	mg/kg	0.10	[B] < 0.10	0.33	< 0.10	0.81	< 0.10	2.6	< 0.10	
Anthracene		M	2700	mg/kg	0.10	[B] < 0.10	< 0.10	< 0.10	0.15	< 0.10	0.15	< 0.10	
Fluoranthene		M	2700	mg/kg	0.10	[B] < 0.10	0.46	< 0.10	0.74	< 0.10	0.70	< 0.10	
Pyrene		M	2700	mg/kg	0.10	[B] < 0.10	0.46	< 0.10	1.2	< 0.10	0.69	< 0.10	
Benzo[a]anthracene		M	2700	mg/kg	0.10	[B] < 0.10	0.45	< 0.10	1.6	< 0.10	0.20	< 0.10	
Chrysene		M	2700	mg/kg	0.10	[B] < 0.10	0.75	< 0.10	3.2	< 0.10	0.71	< 0.10	
Benzo[b]fluoranthene		M	2700	mg/kg	0.10	[B] < 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Benzo[k]fluoranthene		M	2700	mg/kg	0.10	[B] < 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Benzo[a]pyrene		M	2700	mg/kg	0.10	[B] < 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Indeno(1,2,3-c,d)Pyrene		M	2700	mg/kg	0.10	[B] < 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Dibenz(a,h)Anthracene		M	2700	mg/kg	0.10	[B] < 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Benzo[g,h,i]perylene		M	2700	mg/kg	0.10	[B] < 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Total Of 16 PAH's		M	2700	mg/kg	2.0	[B] < 2.0	2.5	< 2.0	8.8	< 2.0	9.5	< 2.0	
Dichlorodifluoromethane		U	2760	µg/kg	1.0								
Chloromethane		M	2760	µg/kg	1.0								
Vinyl Chloride		M	2760	µg/kg	1.0								
Bromomethane		M	2760	µg/kg	20								
Chloroethane		U	2760	µg/kg	2.0								
Trichlorofluoromethane		M	2760	µg/kg	1.0								
1,1-Dichloroethene		M	2760	µg/kg	1.0								

Results - Soil

Project: 315531 EAF Meltshop

Client: RSK Geosciences				**Chemtest Job No.:**		24-18337	24-18337	24-18337	24-18337	24-18337	24-18337	24-18337	24-18339
Quotation No.: Q24-35208				**Chemtest Sample ID.:**		1819250	1819251	1819252	1819253	1819254	1819255	1819256	1819263
Order No.: P02150967				Client Sample Ref.:									
				Client Sample ID.:									
				Sample Location:		BH323	BH317	BH317	BH317	BH317	BH317	BH317	BH322
				Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Top Depth (m):		0.30	2.2	1.5	0.70	6.50	3.3	4.10	0.20
				Bottom Depth (m):									
				Date Sampled:		03-May-2024	07-Jun-2024	07-Jun-2024	07-Jun-2024	07-Jun-2024	07-Jun-2024	07-Jun-2024	07-May-2024
				Asbestos Lab:		NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**								
Dichloromethane		N	2760	µg/kg	50								
Trans 1,2-Dichloroethene		M	2760	µg/kg	1.0								
1,1-Dichloroethane		M	2760	µg/kg	1.0								
cis 1,2-Dichloroethene		M	2760	µg/kg	1.0								
Bromochloromethane		U	2760	µg/kg	5.0								
Trichloromethane		M	2760	µg/kg	1.0								
1,1,1-Trichloroethane		M	2760	µg/kg	1.0								
Tetrachloromethane		M	2760	µg/kg	1.0								
1,1-Dichloropropene		U	2760	µg/kg	1.0								
Benzene		M	2760	µg/kg	1.0								
1,2-Dichloroethane		M	2760	µg/kg	2.0								
Trichloroethene		N	2760	µg/kg	1.0								
1,2-Dichloropropane		M	2760	µg/kg	1.0								
Dibromomethane		M	2760	µg/kg	1.0								
Bromodichloromethane		M	2760	µg/kg	5.0								
cis-1,3-Dichloropropene		N	2760	µg/kg	10								
Toluene		M	2760	µg/kg	1.0								
Trans-1,3-Dichloropropene		N	2760	µg/kg	10								
1,1,2-Trichloroethane		M	2760	µg/kg	10								
Tetrachloroethene		M	2760	µg/kg	1.0								
1,3-Dichloropropane		U	2760	µg/kg	2.0								
Dibromochloromethane		U	2760	µg/kg	10								
1,2-Dibromoethane		M	2760	µg/kg	5.0								
Chlorobenzene		M	2760	µg/kg	1.0								
1,1,1,2-Tetrachloroethane		M	2760	µg/kg	2.0								
Ethylbenzene		M	2760	µg/kg	1.0								
m & p-Xylene		M	2760	µg/kg	1.0								
o-Xylene		M	2760	µg/kg	1.0								
Styrene		M	2760	µg/kg	1.0								
Tribromomethane		U	2760	µg/kg	1.0								
Isopropylbenzene		M	2760	µg/kg	1.0								
Bromobenzene		M	2760	µg/kg	1.0								
1,2,3-Trichloropropane		N	2760	µg/kg	50								
N-Propylbenzene		U	2760	µg/kg	1.0								
2-Chlorotoluene		M	2760	µg/kg	1.0								
1,3,5-Trimethylbenzene		M	2760	µg/kg	1.0								

Results - Soil

Project: 315531 EAF Meltshop

Client: RSK Geosciences				**Chemtest Job No.:**		24-18337	24-18337	24-18337	24-18337	24-18337	24-18337	24-18337	24-18339
Quotation No.: Q24-35208				**Chemtest Sample ID.:**		1819250	1819251	1819252	1819253	1819254	1819255	1819256	1819263
Order No.: P02150967				Client Sample Ref.:									
				Client Sample ID.:									
				Sample Location:		BH323	BH317	BH317	BH317	BH317	BH317	BH317	BH322
				Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Top Depth (m):		0.30	2.2	1.5	0.70	6.50	3.3	4.10	0.20
				Bottom Depth (m):									
				Date Sampled:		03-May-2024	07-Jun-2024	07-Jun-2024	07-Jun-2024	07-Jun-2024	07-Jun-2024	07-Jun-2024	07-May-2024
				Asbestos Lab:		NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**								
4-Chlorotoluene		U	2760	µg/kg	1.0								
Tert-Butylbenzene		U	2760	µg/kg	1.0								
1,2,4-Trimethylbenzene		M	2760	µg/kg	1.0								
Sec-Butylbenzene		U	2760	µg/kg	1.0								
1,3-Dichlorobenzene		M	2760	µg/kg	1.0								
4-Isopropyltoluene		U	2760	µg/kg	1.0								
1,4-Dichlorobenzene		M	2760	µg/kg	1.0								
N-Butylbenzene		U	2760	µg/kg	1.0								
1,2-Dichlorobenzene		M	2760	µg/kg	1.0								
1,2-Dibromo-3-Chloropropane		U	2760	µg/kg	50								
1,2,4-Trichlorobenzene		M	2760	µg/kg	1.0								
Hexachlorobutadiene		N	2760	µg/kg	1.0								
1,2,3-Trichlorobenzene		U	2760	µg/kg	2.0								
Methyl Tert-Butyl Ether		M	2760	µg/kg	1.0								
N-Nitrosodimethylamine		M	2790	mg/kg	0.50								
Phenol		M	2790	mg/kg	0.50								
2-Chlorophenol		N	2790	mg/kg	0.50								
Bis-(2-Chloroethyl)Ether		M	2790	mg/kg	0.50								
1,3-Dichlorobenzene		M	2790	mg/kg	0.50								
1,4-Dichlorobenzene		N	2790	mg/kg	0.50								
1,2-Dichlorobenzene		M	2790	mg/kg	0.50								
2-Methylphenol		M	2790	mg/kg	0.50								
Bis(2-Chloroisopropyl)Ether		M	2790	mg/kg	0.50								
Hexachloroethane		N	2790	mg/kg	0.50								
N-Nitrosodi-n-propylamine		M	2790	mg/kg	0.50								
4-Methylphenol		M	2790	mg/kg	0.50								
Nitrobenzene		N	2790	mg/kg	0.50								
Isophorone		M	2790	mg/kg	0.50								
2-Nitrophenol		N	2790	mg/kg	0.50								
2,4-Dimethylphenol		N	2790	mg/kg	0.50								
Bis(2-Chloroethoxy)Methane		M	2790	mg/kg	0.50								
2,4-Dichlorophenol		N	2790	mg/kg	0.50								
1,2,4-Trichlorobenzene		M	2790	mg/kg	0.50								
Naphthalene		M	2790	mg/kg	0.50								
4-Chloroaniline		N	2790	mg/kg	0.50								
Hexachlorobutadiene		M	2790	mg/kg	0.50								

Results - Soil

Project: 315531 EAF Meltshop

Client: RSK Geosciences				**Chemtest Job No.:**		24-18337	24-18337	24-18337	24-18337	24-18337	24-18337	24-18337	24-18339
Quotation No.: Q24-35208				**Chemtest Sample ID.:**		1819250	1819251	1819252	1819253	1819254	1819255	1819256	1819263
Order No.: P02150967				Client Sample Ref.:									
				Client Sample ID.:									
				Sample Location:		BH323	BH317	BH317	BH317	BH317	BH317	BH317	BH322
				Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Top Depth (m):		0.30	2.2	1.5	0.70	6.50	3.3	4.10	0.20
				Bottom Depth (m):									
				Date Sampled:		03-May-2024	07-Jun-2024	07-Jun-2024	07-Jun-2024	07-Jun-2024	07-Jun-2024	07-Jun-2024	07-May-2024
				Asbestos Lab:		NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**								
4-Chloro-3-Methylphenol		N	2790	mg/kg	0.50								
2-Methylnaphthalene		M	2790	mg/kg	0.50								
4-Nitrophenol		N	2790	mg/kg	0.50								
2,4,6-Trichlorophenol		N	2790	mg/kg	0.50								
2,4,5-Trichlorophenol		N	2790	mg/kg	0.50								
2-Chloronaphthalene		M	2790	mg/kg	0.50								
2-Nitroaniline		N	2790	mg/kg	0.50								
Acenaphthylene		M	2790	mg/kg	0.50								
Dimethylphthalate		M	2790	mg/kg	0.50								
2,6-Dinitrotoluene		N	2790	mg/kg	0.50								
Acenaphthene		M	2790	mg/kg	0.50								
3-Nitroaniline		N	2790	mg/kg	0.50								
Dibenzofuran		M	2790	mg/kg	0.50								
4-Chlorophenylphenylether		M	2790	mg/kg	0.50								
2,4-Dinitrotoluene		N	2790	mg/kg	0.50								
Fluorene		M	2790	mg/kg	0.50								
Diethyl Phthalate		M	2790	mg/kg	0.50								
4-Nitroaniline		N	2790	mg/kg	0.50								
Azobenzene		M	2790	mg/kg	0.50								
4-Bromophenylphenyl Ether		M	2790	mg/kg	0.50								
Hexachlorobenzene		M	2790	mg/kg	0.50								
Phenanthrene		M	2790	mg/kg	0.50								
Anthracene		M	2790	mg/kg	0.50								
Carbazole		M	2790	mg/kg	0.50								
Di-N-Butyl Phthalate		N	2790	mg/kg	0.50								
Fluoranthene		M	2790	mg/kg	0.50								
Pyrene		M	2790	mg/kg	0.50								
Butylbenzyl Phthalate		N	2790	mg/kg	0.50								
Benzo[a]anthracene		M	2790	mg/kg	0.50								
Chrysene		M	2790	mg/kg	0.50								
Bis(2-Ethylhexyl)Phthalate		N	2790	mg/kg	0.50								
Di-N-Octyl Phthalate		N	2790	mg/kg	0.50								
Benzo[b]fluoranthene		M	2790	mg/kg	0.50								
Benzo[k]fluoranthene		M	2790	mg/kg	0.50								
Benzo[a]pyrene		M	2790	mg/kg	0.50								
Indeno(1,2,3-c,d)Pyrene		N	2790	mg/kg	0.50								

Results - Soil

Project: 315531 EAF Meltshop

Client: RSK Geosciences				**Chemtest Job No.:**		24-18337	24-18337	24-18337	24-18337	24-18337	24-18337	24-18337	24-18339
Quotation No.: Q24-35208				**Chemtest Sample ID.:**		1819250	1819251	1819252	1819253	1819254	1819255	1819256	1819263
Order No.: P02150967				Client Sample Ref.:									
				Client Sample ID.:									
				Sample Location:		BH323	BH317	BH317	BH317	BH317	BH317	BH317	BH322
				Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Top Depth (m):		0.30	2.2	1.5	0.70	6.50	3.3	4.10	0.20
				Bottom Depth (m):									
				Date Sampled:		03-May-2024	07-Jun-2024	07-Jun-2024	07-Jun-2024	07-Jun-2024	07-Jun-2024	07-Jun-2024	07-May-2024
				Asbestos Lab:		NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**								
Dibenz(a,h)Anthracene		N	2790	mg/kg	0.50								
Benzo[g,h,i]perylene		M	2790	mg/kg	0.50								
Naphthalene		M	2800	mg/kg	0.10								0.33
Acenaphthylene		N	2800	mg/kg	0.10								< 0.10
Acenaphthene		M	2800	mg/kg	0.10								< 0.10
Fluorene		M	2800	mg/kg	0.10								< 0.10
Phenanthrene		M	2800	mg/kg	0.10								0.36
Anthracene		M	2800	mg/kg	0.10								< 0.10
Fluoranthene		M	2800	mg/kg	0.10								0.39
Pyrene		M	2800	mg/kg	0.10								0.35
Benzo[a]anthracene		M	2800	mg/kg	0.10								< 0.10
Chrysene		M	2800	mg/kg	0.10								< 0.10
Benzo[b]fluoranthene		M	2800	mg/kg	0.10								< 0.10
Benzo[k]fluoranthene		M	2800	mg/kg	0.10								< 0.10
Benzo[a]pyrene		M	2800	mg/kg	0.10								< 0.10
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10								< 0.10
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10								< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10								< 0.10
Total Of 16 PAH's		N	2800	mg/kg	2.0								< 2.0

Results - Soil

Project: 315531 EAF Meltshop

Client: RSK Geosciences				**Chemtest Job No.:**		24-18339	24-18339	24-18339	24-18339	24-18339	24-19025	24-19025	24-19025
Quotation No.: Q24-35208				**Chemtest Sample ID.:**		1819264	1819265	1819266	1819267	1819268	1821789	1821790	1821791
Order No.: P02150967				Client Sample Ref.:									
				Client Sample ID.:									
				Sample Location:		BH322	BH322	BH322	BH322	BH322	BH317	BH317	BH317
				Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Top Depth (m):		1.10	1.60	4.40	7.00	12.00	10.50	14.00	17.50
				Bottom Depth (m):									
				Date Sampled:		07-May-2024	07-May-2024	07-May-2024	07-May-2024	07-May-2024	12-Jun-2024	12-Jun-2024	12-Jun-2024
				Asbestos Lab:		NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**								
ACM Type		U	2192		N/A	-	-	-	-	-	-	-	-
Asbestos Identification		U	2192		N/A	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Asbestos by Gravimetry		U	2192	%	0.001								
Total Asbestos		U	2192	%	0.001								
Moisture		N	2030	%	0.020	12	11	19	57	13	17	7.9	16
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Grey	Brown	Brown
Other Material		N	2040		N/A	Stones	None	None	Stones and Wood	Stones	None	Stones	None
Soil Texture		N	2040		N/A	Sand	Sand	Clay	Clay	Sand	Clay	Sand	Sand
pH at 20C		M	2010		4.0								
Arsenic		M	2455	mg/kg	0.5	6.6	8.6	13	6.8	11	4.3	7.1	9.1
Cadmium		M	2455	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chromium		M	2455	mg/kg	0.5	270	17	40	15	19	14	10	11
Copper		M	2455	mg/kg	0.50	23	2.7	12	4.7	14	5.6	14	9.3
Mercury		M	2455	mg/kg	0.05	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nickel		M	2455	mg/kg	0.50	8.7	4.5	34	14	35	13	18	24
Lead		M	2455	mg/kg	0.50	29	5.2	27	8.9	14	7.6	11	8.8
Selenium		M	2455	mg/kg	0.25	4.4	< 0.25	0.78	0.34	0.50	< 0.25	< 0.25	0.30
Zinc		M	2455	mg/kg	0.50	47	19	97	37	82	38	63	83
Chromium (Hexavalent)		N	2490	mg/kg	0.50								
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	[B] < 0.10	[B] < 0.10	[B] < 0.10	[B] < 0.10	[B] < 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	[B] < 0.25	[B] < 0.25	[B] < 0.25	[B] < 0.25	[B] < 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	[B] 4.4	[B] 2.5	[B] 3.2	[B] 7.0	[B] 3.7	3.0	2.8	< 2.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	[B] 1.1	[B] < 1.0	[B] 1.1	[B] 2.0	[B] 1.2	1.1	1.0	1.1
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	[B] < 2.0	[B] < 2.0	[B] < 2.0	[B] 8.8	[B] < 2.0	< 2.0	< 2.0	< 2.0
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	[B] 13	[B] 3.6	[B] 3.1	[B] 32	[B] 12	< 3.0	< 3.0	< 3.0
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	[B] < 10	[B] < 10	[B] < 10	[B] < 10	[B] < 10	< 10	< 10	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	[B] 19	[B] 7.1	[B] 7.4	[B] 50	[B] 17	5.6	< 5.0	< 5.0
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	[B] 19	[B] < 10	[B] < 10	[B] 50	[B] 17	< 10	< 10	< 10
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05	< 0.05	< 0.05	< 0.05

Results - Soil

Project: 315531 EAF Meltshop

Client: RSK Geosciences						**Chemtest Job No.:**	24-18339	24-18339	24-18339	24-18339	24-18339	24-19025	24-19025	24-19025
Quotation No.: Q24-35208						**Chemtest Sample ID.:**	1819264	1819265	1819266	1819267	1819268	1821789	1821790	1821791
Order No.: P02150967						Client Sample Ref.:								
						Client Sample ID.:								
						Sample Location:	BH322	BH322	BH322	BH322	BH322	BH317	BH317	BH317
						Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
						Top Depth (m):	1.10	1.60	4.40	7.00	12.00	10.50	14.00	17.50
						Bottom Depth (m):								
						Date Sampled:	07-May-2024	07-May-2024	07-May-2024	07-May-2024	07-May-2024	12-Jun-2024	12-Jun-2024	12-Jun-2024
						Asbestos Lab:	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**									
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05		[B] < 0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25		[B] < 0.25	[B] < 0.25	[B] < 0.25	[B] < 0.25	[B] < 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00		[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00		[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] 2.8	[B] < 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00		[B] 2.8	[B] 2.1	[B] 3.7	[B] 130	[B] 2.1	3.4	2.6	3.1
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00		[B] < 2.0	[B] < 2.0	[B] < 2.0	[B] < 2.0	[B] < 2.0	2.1	< 2.0	< 2.0
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00		[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] 94	[B] 1.7	< 1.0	< 1.0	< 1.0
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00		[B] < 5.0	[B] < 5.0	[B] < 5.0	[B] 140	[B] < 5.0	5.5	< 5.0	< 5.0
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00		[B] < 10	[B] < 10	[B] < 10	[B] 230	[B] < 10	< 10	< 10	< 10
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50		[B] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00		[B] 22	[B] < 10	[B] 11	[B] 190	[B] 19	11	< 10	< 10
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00		[B] 22	[B] < 10	[B] 11	[B] 280	[B] 20	11	< 10	< 10
Naphthalene		M	2700	mg/kg	0.10									
Acenaphthylene		M	2700	mg/kg	0.10									
Acenaphthene		M	2700	mg/kg	0.10									
Fluorene		M	2700	mg/kg	0.10									
Phenanthrene		M	2700	mg/kg	0.10									
Anthracene		M	2700	mg/kg	0.10									
Fluoranthene		M	2700	mg/kg	0.10									
Pyrene		M	2700	mg/kg	0.10									
Benzo[a]anthracene		M	2700	mg/kg	0.10									
Chrysene		M	2700	mg/kg	0.10									
Benzo[b]fluoranthene		M	2700	mg/kg	0.10									
Benzo[k]fluoranthene		M	2700	mg/kg	0.10									
Benzo[a]pyrene		M	2700	mg/kg	0.10									
Indeno(1,2,3-c,d)Pyrene		M	2700	mg/kg	0.10									
Dibenz(a,h)Anthracene		M	2700	mg/kg	0.10									
Benzo[g,h,i]perylene		M	2700	mg/kg	0.10									
Total Of 16 PAH's		M	2700	mg/kg	2.0									
Dichlorodifluoromethane		U	2760	µg/kg	1.0									
Chloromethane		M	2760	µg/kg	1.0									
Vinyl Chloride		M	2760	µg/kg	1.0									
Bromomethane		M	2760	µg/kg	20									
Chloroethane		U	2760	µg/kg	2.0									
Trichlorofluoromethane		M	2760	µg/kg	1.0									
1,1-Dichloroethene		M	2760	µg/kg	1.0									

Results - Soil

Project: 315531 EAF Meltshop

Client: RSK Geosciences				**Chemtest Job No.:**		24-18339	24-18339	24-18339	24-18339	24-18339	24-19025	24-19025	24-19025
Quotation No.: Q24-35208				**Chemtest Sample ID.:**		1819264	1819265	1819266	1819267	1819268	1821789	1821790	1821791
Order No.: P02150967				Client Sample Ref.:									
				Client Sample ID.:									
				Sample Location:		BH322	BH322	BH322	BH322	BH322	BH317	BH317	BH317
				Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Top Depth (m):		1.10	1.60	4.40	7.00	12.00	10.50	14.00	17.50
				Bottom Depth (m):									
				Date Sampled:		07-May-2024	07-May-2024	07-May-2024	07-May-2024	07-May-2024	12-Jun-2024	12-Jun-2024	12-Jun-2024
				Asbestos Lab:		NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**								
Dichloromethane		N	2760	µg/kg	50								
Trans 1,2-Dichloroethene		M	2760	µg/kg	1.0								
1,1-Dichloroethane		M	2760	µg/kg	1.0								
cis 1,2-Dichloroethene		M	2760	µg/kg	1.0								
Bromochloromethane		U	2760	µg/kg	5.0								
Trichloromethane		M	2760	µg/kg	1.0								
1,1,1-Trichloroethane		M	2760	µg/kg	1.0								
Tetrachloromethane		M	2760	µg/kg	1.0								
1,1-Dichloropropene		U	2760	µg/kg	1.0								
Benzene		M	2760	µg/kg	1.0								
1,2-Dichloroethane		M	2760	µg/kg	2.0								
Trichloroethene		N	2760	µg/kg	1.0								
1,2-Dichloropropane		M	2760	µg/kg	1.0								
Dibromomethane		M	2760	µg/kg	1.0								
Bromodichloromethane		M	2760	µg/kg	5.0								
cis-1,3-Dichloropropene		N	2760	µg/kg	10								
Toluene		M	2760	µg/kg	1.0								
Trans-1,3-Dichloropropene		N	2760	µg/kg	10								
1,1,2-Trichloroethane		M	2760	µg/kg	10								
Tetrachloroethene		M	2760	µg/kg	1.0								
1,3-Dichloropropane		U	2760	µg/kg	2.0								
Dibromochloromethane		U	2760	µg/kg	10								
1,2-Dibromoethane		M	2760	µg/kg	5.0								
Chlorobenzene		M	2760	µg/kg	1.0								
1,1,1,2-Tetrachloroethane		M	2760	µg/kg	2.0								
Ethylbenzene		M	2760	µg/kg	1.0								
m & p-Xylene		M	2760	µg/kg	1.0								
o-Xylene		M	2760	µg/kg	1.0								
Styrene		M	2760	µg/kg	1.0								
Tribromomethane		U	2760	µg/kg	1.0								
Isopropylbenzene		M	2760	µg/kg	1.0								
Bromobenzene		M	2760	µg/kg	1.0								
1,2,3-Trichloropropane		N	2760	µg/kg	50								
N-Propylbenzene		U	2760	µg/kg	1.0								
2-Chlorotoluene		M	2760	µg/kg	1.0								
1,3,5-Trimethylbenzene		M	2760	µg/kg	1.0								

Results - Soil

Project: 315531 EAF Meltshop

Client: RSK Geosciences				**Chemtest Job No.:**		24-18339	24-18339	24-18339	24-18339	24-18339	24-19025	24-19025	24-19025
Quotation No.: Q24-35208				**Chemtest Sample ID.:**		1819264	1819265	1819266	1819267	1819268	1821789	1821790	1821791
Order No.: P02150967				Client Sample Ref.:									
				Client Sample ID.:									
				Sample Location:		BH322	BH322	BH322	BH322	BH322	BH317	BH317	BH317
				Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Top Depth (m):		1.10	1.60	4.40	7.00	12.00	10.50	14.00	17.50
				Bottom Depth (m):									
				Date Sampled:		07-May-2024	07-May-2024	07-May-2024	07-May-2024	07-May-2024	12-Jun-2024	12-Jun-2024	12-Jun-2024
				Asbestos Lab:		NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**								
4-Chlorotoluene		U	2760	µg/kg	1.0								
Tert-Butylbenzene		U	2760	µg/kg	1.0								
1,2,4-Trimethylbenzene		M	2760	µg/kg	1.0								
Sec-Butylbenzene		U	2760	µg/kg	1.0								
1,3-Dichlorobenzene		M	2760	µg/kg	1.0								
4-Isopropyltoluene		U	2760	µg/kg	1.0								
1,4-Dichlorobenzene		M	2760	µg/kg	1.0								
N-Butylbenzene		U	2760	µg/kg	1.0								
1,2-Dichlorobenzene		M	2760	µg/kg	1.0								
1,2-Dibromo-3-Chloropropane		U	2760	µg/kg	50								
1,2,4-Trichlorobenzene		M	2760	µg/kg	1.0								
Hexachlorobutadiene		N	2760	µg/kg	1.0								
1,2,3-Trichlorobenzene		U	2760	µg/kg	2.0								
Methyl Tert-Butyl Ether		M	2760	µg/kg	1.0								
N-Nitrosodimethylamine		M	2790	mg/kg	0.50								
Phenol		M	2790	mg/kg	0.50								
2-Chlorophenol		N	2790	mg/kg	0.50								
Bis-(2-Chloroethyl)Ether		M	2790	mg/kg	0.50								
1,3-Dichlorobenzene		M	2790	mg/kg	0.50								
1,4-Dichlorobenzene		N	2790	mg/kg	0.50								
1,2-Dichlorobenzene		M	2790	mg/kg	0.50								
2-Methylphenol		M	2790	mg/kg	0.50								
Bis(2-Chloroisopropyl)Ether		M	2790	mg/kg	0.50								
Hexachloroethane		N	2790	mg/kg	0.50								
N-Nitrosodi-n-propylamine		M	2790	mg/kg	0.50								
4-Methylphenol		M	2790	mg/kg	0.50								
Nitrobenzene		N	2790	mg/kg	0.50								
Isophorone		M	2790	mg/kg	0.50								
2-Nitrophenol		N	2790	mg/kg	0.50								
2,4-Dimethylphenol		N	2790	mg/kg	0.50								
Bis(2-Chloroethoxy)Methane		M	2790	mg/kg	0.50								
2,4-Dichlorophenol		N	2790	mg/kg	0.50								
1,2,4-Trichlorobenzene		M	2790	mg/kg	0.50								
Naphthalene		M	2790	mg/kg	0.50								
4-Chloroaniline		N	2790	mg/kg	0.50								
Hexachlorobutadiene		M	2790	mg/kg	0.50								

Results - Soil

Project: 315531 EAF Meltshop

Client: RSK Geosciences				**Chemtest Job No.:**		24-18339	24-18339	24-18339	24-18339	24-18339	24-19025	24-19025	24-19025
Quotation No.: Q24-35208				**Chemtest Sample ID.:**		1819264	1819265	1819266	1819267	1819268	1821789	1821790	1821791
Order No.: P02150967				Client Sample Ref.:									
				Client Sample ID.:									
				Sample Location:		BH322	BH322	BH322	BH322	BH322	BH317	BH317	BH317
				Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Top Depth (m):		1.10	1.60	4.40	7.00	12.00	10.50	14.00	17.50
				Bottom Depth (m):									
				Date Sampled:		07-May-2024	07-May-2024	07-May-2024	07-May-2024	07-May-2024	12-Jun-2024	12-Jun-2024	12-Jun-2024
				Asbestos Lab:		NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**								
4-Chloro-3-Methylphenol		N	2790	mg/kg	0.50								
2-Methylnaphthalene		M	2790	mg/kg	0.50								
4-Nitrophenol		N	2790	mg/kg	0.50								
2,4,6-Trichlorophenol		N	2790	mg/kg	0.50								
2,4,5-Trichlorophenol		N	2790	mg/kg	0.50								
2-Chloronaphthalene		M	2790	mg/kg	0.50								
2-Nitroaniline		N	2790	mg/kg	0.50								
Acenaphthylene		M	2790	mg/kg	0.50								
Dimethylphthalate		M	2790	mg/kg	0.50								
2,6-Dinitrotoluene		N	2790	mg/kg	0.50								
Acenaphthene		M	2790	mg/kg	0.50								
3-Nitroaniline		N	2790	mg/kg	0.50								
Dibenzofuran		M	2790	mg/kg	0.50								
4-Chlorophenylphenylether		M	2790	mg/kg	0.50								
2,4-Dinitrotoluene		N	2790	mg/kg	0.50								
Fluorene		M	2790	mg/kg	0.50								
Diethyl Phthalate		M	2790	mg/kg	0.50								
4-Nitroaniline		N	2790	mg/kg	0.50								
Azobenzene		M	2790	mg/kg	0.50								
4-Bromophenylphenyl Ether		M	2790	mg/kg	0.50								
Hexachlorobenzene		M	2790	mg/kg	0.50								
Phenanthrene		M	2790	mg/kg	0.50								
Anthracene		M	2790	mg/kg	0.50								
Carbazole		M	2790	mg/kg	0.50								
Di-N-Butyl Phthalate		N	2790	mg/kg	0.50								
Fluoranthene		M	2790	mg/kg	0.50								
Pyrene		M	2790	mg/kg	0.50								
Butylbenzyl Phthalate		N	2790	mg/kg	0.50								
Benzo[a]anthracene		M	2790	mg/kg	0.50								
Chrysene		M	2790	mg/kg	0.50								
Bis(2-Ethylhexyl)Phthalate		N	2790	mg/kg	0.50								
Di-N-Octyl Phthalate		N	2790	mg/kg	0.50								
Benzo[b]fluoranthene		M	2790	mg/kg	0.50								
Benzo[k]fluoranthene		M	2790	mg/kg	0.50								
Benzo[a]pyrene		M	2790	mg/kg	0.50								
Indeno(1,2,3-c,d)Pyrene		N	2790	mg/kg	0.50								

Results - Soil

Project: 315531 EAF Meltshop

Client: RSK Geosciences													
Quotation No.: Q24-35208				**Chemtest Job No.:**		24-18339	24-18339	24-18339	24-18339	24-18339	24-19025	24-19025	24-19025
Order No.: P02150967				**Chemtest Sample ID.:**		1819264	1819265	1819266	1819267	1819268	1821789	1821790	1821791
				Client Sample Ref.:									
				Client Sample ID.:									
				Sample Location:		BH322	BH322	BH322	BH322	BH322	BH317	BH317	BH317
				Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Top Depth (m):		1.10	1.60	4.40	7.00	12.00	10.50	14.00	17.50
				Bottom Depth (m):									
				Date Sampled:		07-May-2024	07-May-2024	07-May-2024	07-May-2024	07-May-2024	12-Jun-2024	12-Jun-2024	12-Jun-2024
				Asbestos Lab:		NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**								
Dibenz(a,h)Anthracene		N	2790	mg/kg	0.50								
Benzo[g,h,i]perylene		M	2790	mg/kg	0.50								
Naphthalene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.17	< 0.10	< 0.10	< 0.10
Anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.15	< 0.10	< 0.10	< 0.10
Pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.14	< 0.10	< 0.10	< 0.10
Benzo[a]anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's		N	2800	mg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0

Results - Soil

Project: 315531 EAF Meltshop

Client: RSK Geosciences						**Chemtest Job No.:**	24-19025	24-19025	24-19025	24-19335	24-19335	24-19915	24-19915	24-19915
Quotation No.: Q24-35208						**Chemtest Sample ID.:**	1821792	1821793	1821794	1822927	1822928	1825240	1825242	1825243
Order No.: P02150967						Client Sample Ref.:								
						Client Sample ID.:								
						Sample Location:	BH324	BH324	BH324	BH324	BH324	BH319	BH319	BH319
						Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
						Top Depth (m):	0.20	0.70	3.50	4.80	7.00	0.50	2.50	450
						Bottom Depth (m):								
						Date Sampled:	12-Jun-2024	12-Jun-2024	12-Jun-2024	14-Jun-2024	14-Jun-2024	19-Jun-2024	19-Jun-2024	19-Jun-2024
						Asbestos Lab:	NEW-ASB	NEW-ASB	NEW-ASB	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**									
ACM Type		U	2192		N/A		-	-	-	-	-	Fibres/Clumps	-	-
Asbestos Identification		U	2192		N/A		No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	Amosite	No Asbestos Detected	No Asbestos Detected
Asbestos by Gravimetry		U	2192	%	0.001							0.004		
Total Asbestos		U	2192	%	0.001							0.004		
Moisture		N	2030	%	0.020		7.1	10	20	22	39	10	20	21
Soil Colour		N	2040		N/A		Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A		Stones	Stones	None	None	Wood and Stones	Stones and Roots	None	None
Soil Texture		N	2040		N/A		Sand	Sand	Sand	Sand	Sand	Loam	Sand	Clay
pH at 20C		M	2010		4.0									
Arsenic		M	2455	mg/kg	0.5		6.0	16	22	7.3	18	4.3	7.5	16
Cadmium		M	2455	mg/kg	0.10		0.33	0.14	0.28	< 0.10	< 0.10	0.14	< 0.10	< 0.10
Chromium		M	2455	mg/kg	0.5		450	120	18	7.8	17	47	9.5	34
Copper		M	2455	mg/kg	0.50		24	36	42	3.5	7.3	7.4	1.3	12
Mercury		M	2455	mg/kg	0.05		0.06	0.05	< 0.05	< 0.05	< 0.05	1.9	0.05	< 0.05
Nickel		M	2455	mg/kg	0.50		16	17	15	6.8	12	6.1	3.0	34
Lead		M	2455	mg/kg	0.50		49	46	40	6.6	11	57	4.5	23
Selenium		M	2455	mg/kg	0.25		1.2	1.6	0.76	< 0.25	0.32	1.0	< 0.25	< 0.25
Zinc		M	2455	mg/kg	0.50		140	79	92	26	43	110	9.8	88
Chromium (Hexavalent)		N	2490	mg/kg	0.50									
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	[B] < 0.10	[B] < 0.10	[B] < 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25		< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	[B] < 0.25	[B] < 0.25	[B] < 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00		6.7	6.2	6.2	9.7	5.4	[B] 7.8	[B] 10	[B] 8.2
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00		1.8	2.1	4.1	10	1.4	[B] 3.2	[B] 11	[B] 3.4
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00		4.5	2.1	< 2.0	7.2	9.7	[B] < 2.0	[B] 18	[B] < 2.0
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00		280	6.5	4.5	14	45	[B] < 3.0	[B] 68	[B] 4.9
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00		10	< 10	< 10	< 10	< 10	[B] < 10	[B] 17	[B] < 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00		290	17	17	42	61	[B] 12	[B] 110	[B] 17
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00		300	17	17	42	61	[B] 12	[B] 120	[B] 17
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05

Results - Soil

Project: 315531 EAF Meltshop

Client: RSK Geosciences				**Chemtest Job No.:**		24-19025	24-19025	24-19025	24-19335	24-19335	24-19915	24-19915	24-19915
Quotation No.: Q24-35208				**Chemtest Sample ID.:**		1821792	1821793	1821794	1822927	1822928	1825240	1825242	1825243
Order No.: P02150967				Client Sample Ref.:									
				Client Sample ID.:									
				Sample Location:		BH324	BH324	BH324	BH324	BH324	BH319	BH319	BH319
				Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Top Depth (m):		0.20	0.70	3.50	4.80	7.00	0.50	2.50	450
				Bottom Depth (m):									
				Date Sampled:		12-Jun-2024	12-Jun-2024	12-Jun-2024	14-Jun-2024	14-Jun-2024	19-Jun-2024	19-Jun-2024	19-Jun-2024
				Asbestos Lab:		NEW-ASB	NEW-ASB	NEW-ASB	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**								
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	[B] < 0.25	[B] < 0.25	[B] < 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	[B] < 1.0	[B] 2.0	[B] 1.2
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	< 1.0	1.5	[B] < 1.0	[B] 1.3	[B] < 1.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	3.8	< 2.0	2.7	2.8	32	[B] < 2.0	[B] 3.2	[B] < 2.0
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	2.8	< 2.0	7.4	< 2.0	< 2.0	[B] < 2.0	[B] 24	[B] < 2.0
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	4.8	28	2.1	3.9	200	[B] < 1.0	[B] 4.1	[B] 1.5
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	6.6	< 5.0	10	< 5.0	34	[B] < 5.0	[B] 30	[B] < 5.0
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	11	28	12	< 10	230	[B] < 10	[B] 34	[B] < 10
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	300	18	27	45	96	[B] 14	[B] 140	[B] 19
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	310	46	29	49	300	[B] 14	[B] 160	[B] 20
Naphthalene		M	2700	mg/kg	0.10								
Acenaphthylene		M	2700	mg/kg	0.10								
Acenaphthene		M	2700	mg/kg	0.10								
Fluorene		M	2700	mg/kg	0.10								
Phenanthrene		M	2700	mg/kg	0.10								
Anthracene		M	2700	mg/kg	0.10								
Fluoranthene		M	2700	mg/kg	0.10								
Pyrene		M	2700	mg/kg	0.10								
Benzo[a]anthracene		M	2700	mg/kg	0.10								
Chrysene		M	2700	mg/kg	0.10								
Benzo[b]fluoranthene		M	2700	mg/kg	0.10								
Benzo[k]fluoranthene		M	2700	mg/kg	0.10								
Benzo[a]pyrene		M	2700	mg/kg	0.10								
Indeno(1,2,3-c,d)Pyrene		M	2700	mg/kg	0.10								
Dibenz(a,h)Anthracene		M	2700	mg/kg	0.10								
Benzo[g,h,i]perylene		M	2700	mg/kg	0.10								
Total Of 16 PAH's		M	2700	mg/kg	2.0								
Dichlorodifluoromethane		U	2760	µg/kg	1.0								
Chloromethane		M	2760	µg/kg	1.0								
Vinyl Chloride		M	2760	µg/kg	1.0								
Bromomethane		M	2760	µg/kg	20								
Chloroethane		U	2760	µg/kg	2.0								
Trichlorofluoromethane		M	2760	µg/kg	1.0								
1,1-Dichloroethene		M	2760	µg/kg	1.0								

Results - Soil

Project: 315531 EAF Meltshop

Client: RSK Geosciences				**Chemtest Job No.:**		24-19025	24-19025	24-19025	24-19335	24-19335	24-19915	24-19915	24-19915
Quotation No.: Q24-35208				**Chemtest Sample ID.:**		1821792	1821793	1821794	1822927	1822928	1825240	1825242	1825243
Order No.: P02150967				Client Sample Ref.:									
				Client Sample ID.:									
				Sample Location:		BH324	BH324	BH324	BH324	BH324	BH319	BH319	BH319
				Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Top Depth (m):		0.20	0.70	3.50	4.80	7.00	0.50	2.50	450
				Bottom Depth (m):									
				Date Sampled:		12-Jun-2024	12-Jun-2024	12-Jun-2024	14-Jun-2024	14-Jun-2024	19-Jun-2024	19-Jun-2024	19-Jun-2024
				Asbestos Lab:		NEW-ASB	NEW-ASB	NEW-ASB	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**								
Dichloromethane		N	2760	µg/kg	50								
Trans 1,2-Dichloroethene		M	2760	µg/kg	1.0								
1,1-Dichloroethane		M	2760	µg/kg	1.0								
cis 1,2-Dichloroethene		M	2760	µg/kg	1.0								
Bromochloromethane		U	2760	µg/kg	5.0								
Trichloromethane		M	2760	µg/kg	1.0								
1,1,1-Trichloroethane		M	2760	µg/kg	1.0								
Tetrachloromethane		M	2760	µg/kg	1.0								
1,1-Dichloropropene		U	2760	µg/kg	1.0								
Benzene		M	2760	µg/kg	1.0								
1,2-Dichloroethane		M	2760	µg/kg	2.0								
Trichloroethene		N	2760	µg/kg	1.0								
1,2-Dichloropropane		M	2760	µg/kg	1.0								
Dibromomethane		M	2760	µg/kg	1.0								
Bromodichloromethane		M	2760	µg/kg	5.0								
cis-1,3-Dichloropropene		N	2760	µg/kg	10								
Toluene		M	2760	µg/kg	1.0								
Trans-1,3-Dichloropropene		N	2760	µg/kg	10								
1,1,2-Trichloroethane		M	2760	µg/kg	10								
Tetrachloroethene		M	2760	µg/kg	1.0								
1,3-Dichloropropane		U	2760	µg/kg	2.0								
Dibromochloromethane		U	2760	µg/kg	10								
1,2-Dibromoethane		M	2760	µg/kg	5.0								
Chlorobenzene		M	2760	µg/kg	1.0								
1,1,1,2-Tetrachloroethane		M	2760	µg/kg	2.0								
Ethylbenzene		M	2760	µg/kg	1.0								
m & p-Xylene		M	2760	µg/kg	1.0								
o-Xylene		M	2760	µg/kg	1.0								
Styrene		M	2760	µg/kg	1.0								
Tribromomethane		U	2760	µg/kg	1.0								
Isopropylbenzene		M	2760	µg/kg	1.0								
Bromobenzene		M	2760	µg/kg	1.0								
1,2,3-Trichloropropane		N	2760	µg/kg	50								
N-Propylbenzene		U	2760	µg/kg	1.0								
2-Chlorotoluene		M	2760	µg/kg	1.0								
1,3,5-Trimethylbenzene		M	2760	µg/kg	1.0								

Results - Soil

Project: 315531 EAF Meltshop

Client: RSK Geosciences				**Chemtest Job No.:**		24-19025	24-19025	24-19025	24-19335	24-19335	24-19915	24-19915	24-19915
Quotation No.: Q24-35208				**Chemtest Sample ID.:**		1821792	1821793	1821794	1822927	1822928	1825240	1825242	1825243
Order No.: P02150967				Client Sample Ref.:									
				Client Sample ID.:									
				Sample Location:		BH324	BH324	BH324	BH324	BH324	BH319	BH319	BH319
				Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Top Depth (m):		0.20	0.70	3.50	4.80	7.00	0.50	2.50	450
				Bottom Depth (m):									
				Date Sampled:		12-Jun-2024	12-Jun-2024	12-Jun-2024	14-Jun-2024	14-Jun-2024	19-Jun-2024	19-Jun-2024	19-Jun-2024
				Asbestos Lab:		NEW-ASB	NEW-ASB	NEW-ASB	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**								
4-Chlorotoluene		U	2760	µg/kg	1.0								
Tert-Butylbenzene		U	2760	µg/kg	1.0								
1,2,4-Trimethylbenzene		M	2760	µg/kg	1.0								
Sec-Butylbenzene		U	2760	µg/kg	1.0								
1,3-Dichlorobenzene		M	2760	µg/kg	1.0								
4-Isopropyltoluene		U	2760	µg/kg	1.0								
1,4-Dichlorobenzene		M	2760	µg/kg	1.0								
N-Butylbenzene		U	2760	µg/kg	1.0								
1,2-Dichlorobenzene		M	2760	µg/kg	1.0								
1,2-Dibromo-3-Chloropropane		U	2760	µg/kg	50								
1,2,4-Trichlorobenzene		M	2760	µg/kg	1.0								
Hexachlorobutadiene		N	2760	µg/kg	1.0								
1,2,3-Trichlorobenzene		U	2760	µg/kg	2.0								
Methyl Tert-Butyl Ether		M	2760	µg/kg	1.0								
N-Nitrosodimethylamine		M	2790	mg/kg	0.50								
Phenol		M	2790	mg/kg	0.50								
2-Chlorophenol		N	2790	mg/kg	0.50								
Bis-(2-Chloroethyl)Ether		M	2790	mg/kg	0.50								
1,3-Dichlorobenzene		M	2790	mg/kg	0.50								
1,4-Dichlorobenzene		N	2790	mg/kg	0.50								
1,2-Dichlorobenzene		M	2790	mg/kg	0.50								
2-Methylphenol		M	2790	mg/kg	0.50								
Bis(2-Chloroisopropyl)Ether		M	2790	mg/kg	0.50								
Hexachloroethane		N	2790	mg/kg	0.50								
N-Nitrosodi-n-propylamine		M	2790	mg/kg	0.50								
4-Methylphenol		M	2790	mg/kg	0.50								
Nitrobenzene		N	2790	mg/kg	0.50								
Isophorone		M	2790	mg/kg	0.50								
2-Nitrophenol		N	2790	mg/kg	0.50								
2,4-Dimethylphenol		N	2790	mg/kg	0.50								
Bis(2-Chloroethoxy)Methane		M	2790	mg/kg	0.50								
2,4-Dichlorophenol		N	2790	mg/kg	0.50								
1,2,4-Trichlorobenzene		M	2790	mg/kg	0.50								
Naphthalene		M	2790	mg/kg	0.50								
4-Chloroaniline		N	2790	mg/kg	0.50								
Hexachlorobutadiene		M	2790	mg/kg	0.50								

Results - Soil

Project: 315531 EAF Meltshop

Client: RSK Geosciences				**Chemtest Job No.:**		24-19025	24-19025	24-19025	24-19335	24-19335	24-19915	24-19915	24-19915
Quotation No.: Q24-35208				**Chemtest Sample ID.:**		1821792	1821793	1821794	1822927	1822928	1825240	1825242	1825243
Order No.: P02150967				Client Sample Ref.:									
				Client Sample ID.:									
				Sample Location:		BH324	BH324	BH324	BH324	BH324	BH319	BH319	BH319
				Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Top Depth (m):		0.20	0.70	3.50	4.80	7.00	0.50	2.50	450
				Bottom Depth (m):									
				Date Sampled:		12-Jun-2024	12-Jun-2024	12-Jun-2024	14-Jun-2024	14-Jun-2024	19-Jun-2024	19-Jun-2024	19-Jun-2024
				Asbestos Lab:		NEW-ASB	NEW-ASB	NEW-ASB	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**								
4-Chloro-3-Methylphenol		N	2790	mg/kg	0.50								
2-Methylnaphthalene		M	2790	mg/kg	0.50								
4-Nitrophenol		N	2790	mg/kg	0.50								
2,4,6-Trichlorophenol		N	2790	mg/kg	0.50								
2,4,5-Trichlorophenol		N	2790	mg/kg	0.50								
2-Chloronaphthalene		M	2790	mg/kg	0.50								
2-Nitroaniline		N	2790	mg/kg	0.50								
Acenaphthylene		M	2790	mg/kg	0.50								
Dimethylphthalate		M	2790	mg/kg	0.50								
2,6-Dinitrotoluene		N	2790	mg/kg	0.50								
Acenaphthene		M	2790	mg/kg	0.50								
3-Nitroaniline		N	2790	mg/kg	0.50								
Dibenzofuran		M	2790	mg/kg	0.50								
4-Chlorophenylphenylether		M	2790	mg/kg	0.50								
2,4-Dinitrotoluene		N	2790	mg/kg	0.50								
Fluorene		M	2790	mg/kg	0.50								
Diethyl Phthalate		M	2790	mg/kg	0.50								
4-Nitroaniline		N	2790	mg/kg	0.50								
Azobenzene		M	2790	mg/kg	0.50								
4-Bromophenylphenyl Ether		M	2790	mg/kg	0.50								
Hexachlorobenzene		M	2790	mg/kg	0.50								
Phenanthrene		M	2790	mg/kg	0.50								
Anthracene		M	2790	mg/kg	0.50								
Carbazole		M	2790	mg/kg	0.50								
Di-N-Butyl Phthalate		N	2790	mg/kg	0.50								
Fluoranthene		M	2790	mg/kg	0.50								
Pyrene		M	2790	mg/kg	0.50								
Butylbenzyl Phthalate		N	2790	mg/kg	0.50								
Benzo[a]anthracene		M	2790	mg/kg	0.50								
Chrysene		M	2790	mg/kg	0.50								
Bis(2-Ethylhexyl)Phthalate		N	2790	mg/kg	0.50								
Di-N-Octyl Phthalate		N	2790	mg/kg	0.50								
Benzo[b]fluoranthene		M	2790	mg/kg	0.50								
Benzo[k]fluoranthene		M	2790	mg/kg	0.50								
Benzo[a]pyrene		M	2790	mg/kg	0.50								
Indeno(1,2,3-c,d)Pyrene		N	2790	mg/kg	0.50								

Results - Soil

Project: 315531 EAF Meltshop

Client: RSK Geosciences				**Chemtest Job No.:**		24-19025	24-19025	24-19025	24-19335	24-19335	24-19915	24-19915	24-19915
Quotation No.: Q24-35208				**Chemtest Sample ID.:**		1821792	1821793	1821794	1822927	1822928	1825240	1825242	1825243
Order No.: P02150967				Client Sample Ref.:									
				Client Sample ID.:									
				Sample Location:		BH324	BH324	BH324	BH324	BH324	BH319	BH319	BH319
				Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Top Depth (m):		0.20	0.70	3.50	4.80	7.00	0.50	2.50	450
				Bottom Depth (m):									
				Date Sampled:		12-Jun-2024	12-Jun-2024	12-Jun-2024	14-Jun-2024	14-Jun-2024	19-Jun-2024	19-Jun-2024	19-Jun-2024
				Asbestos Lab:		NEW-ASB	NEW-ASB	NEW-ASB	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**								
Dibenz(a,h)Anthracene		N	2790	mg/kg	0.50								
Benzo[g,h,i]perylene		M	2790	mg/kg	0.50								
Naphthalene		M	2800	mg/kg	0.10	0.41	< 0.10	< 0.10	< 0.10	< 0.10	3.5	0.10	0.70
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	1.2	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	1.1	< 0.10	0.12
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.93	< 0.10	0.15
Phenanthrene		M	2800	mg/kg	0.10	0.42	< 0.10	0.59	< 0.10	< 0.10	2.0	< 0.10	0.82
Anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.67	< 0.10	0.19
Fluoranthene		M	2800	mg/kg	0.10	0.38	< 0.10	0.27	< 0.10	0.28	2.6	< 0.10	0.31
Pyrene		M	2800	mg/kg	0.10	0.30	< 0.10	0.25	< 0.10	0.26	1.9	< 0.10	0.22
Benzo[a]anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	1.3	< 0.10	0.16
Chrysene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	1.6	< 0.10	0.20
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	2.6	< 0.10	0.24
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.83	< 0.10	0.22
Benzo[a]pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	1.5	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	1.6	< 0.10	0.19
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.33	< 0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	1.3	< 0.10	0.18
Total Of 16 PAH's		N	2800	mg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	25	< 2.0	3.7

Results - Soil

Project: 315531 EAF Meltshop

Client: RSK Geosciences					**Chemtest Job No.:**	24-19915	24-19915	24-19915	24-21511	24-21511	24-21511	24-21511	24-21511
Quotation No.: Q24-35208					**Chemtest Sample ID.:**	1825245	1825246	1825247	1831342	1831343	1831344	1831345	1831346
Order No.: P02150967					Client Sample Ref.:				ES	ES	ES	ES	ES
					Client Sample ID.:				1	2	1	1	2
					Sample Location:	BH320	BH320	BH320	BH331	BH331	BH329	BH328	BH328
					Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
					Top Depth (m):	0.50	1.50	3.60	0.4	2.0	4.5	0.5	1.5
					Bottom Depth (m):								
					Date Sampled:	19-Jun-2024	19-Jun-2024	19-Jun-2024	04-Jul-2024	04-Jul-2024	04-Jul-2024	04-Jul-2024	04-Jul-2024
					Asbestos Lab:	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**								
ACM Type		U	2192		N/A	-	-	-	-	-	-	-	-
Asbestos Identification		U	2192		N/A	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Asbestos by Gravimetry		U	2192	%	0.001								
Total Asbestos		U	2192	%	0.001								
Moisture		N	2030	%	0.020	4.5	19	24	8.4	5.9	5.0	4.1	19
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones	Roots	Stones	Stones	Stones	Stones	Stones
Soil Texture		N	2040		N/A	Loam	Clay	Clay	Loam	Sand	Sand	Loam	Loam
pH at 20C		M	2010		4.0								
Arsenic		M	2455	mg/kg	0.5	6.4	9.9	15	2.9	9.0	6.3	4.1	8.2
Cadmium		M	2455	mg/kg	0.10	< 0.10	< 0.10	< 0.10	0.60	< 0.10	0.18	0.45	< 0.10
Chromium		M	2455	mg/kg	0.5	26	46	29	550	19	170	1300	56
Copper		M	2455	mg/kg	0.50	42	13	8.8	32	2.7	24	44	8.7
Mercury		M	2455	mg/kg	0.05	0.08	0.12	< 0.05	< 0.05	< 0.05	0.05	< 0.05	< 0.05
Nickel		M	2455	mg/kg	0.50	11	18	31	23	4.9	9.9	27	9.4
Lead		M	2455	mg/kg	0.50	42	25	18	24	5.9	36	23	14
Selenium		M	2455	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Zinc		M	2455	mg/kg	0.50	73	64	73	500	15	75	130	34
Chromium (Hexavalent)		N	2490	mg/kg	0.50								
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	[B] < 0.10	[B] < 0.10	[B] < 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	[B] < 0.25	[B] < 0.25	[B] < 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	[B] 7.3	[B] 8.5	[B] 14	6.8	7.2	7.9	7.8	10
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	[B] 2.1	[B] 5.9	[B] 22	2.6	2.9	4.6	6.0	21
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	[B] < 2.0	[B] 3.5	[B] 75	< 2.0	< 2.0	3.2	5.1	29
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	[B] 4.4	[B] 25	[B] 430	< 3.0	< 3.0	92	16	26
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	[B] < 10	[B] < 10	[B] 81	< 10	< 10	27	< 10	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	[B] 14	[B] 43	[B] 540	12	11	110	35	87
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	[B] 14	[B] 43	[B] 620	12	11	130	35	87
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

Results - Soil

Project: 315531 EAF Meltshop

Client: RSK Geosciences				**Chemtest Job No.:**		24-19915	24-19915	24-19915	24-21511	24-21511	24-21511	24-21511	24-21511
Quotation No.: Q24-35208				**Chemtest Sample ID.:**		1825245	1825246	1825247	1831342	1831343	1831344	1831345	1831346
Order No.: P02150967				Client Sample Ref.:					ES	ES	ES	ES	ES
				Client Sample ID.:					1	2	1	1	2
				Sample Location:		BH320	BH320	BH320	BH331	BH331	BH329	BH328	BH328
				Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Top Depth (m):		0.50	1.50	3.60	0.4	2.0	4.5	0.5	1.5
				Bottom Depth (m):									
				Date Sampled:		19-Jun-2024	19-Jun-2024	19-Jun-2024	04-Jul-2024	04-Jul-2024	04-Jul-2024	04-Jul-2024	04-Jul-2024
				Asbestos Lab:		DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**								
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	[B] < 0.25	[B] < 0.25	[B] < 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	[B] < 1.0	[B] 1.4	[B] 5.8	< 1.0	1.3	< 1.0	1.7	1.3
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	[B] < 1.0	[B] < 1.0	[B] 20	< 1.0	< 1.0	< 1.0	8.5	5.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	[B] < 2.0	[B] < 2.0	[B] 36	< 2.0	< 2.0	< 2.0	84	2.7
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	[B] 4.3	[B] 6.2	[B] 4.4	< 2.0	< 2.0	3.7	340	17
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	[B] 2.1	[B] 1.3	[B] 7.8	3.8	< 1.0	3.5	61	57
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	[B] 5.1	[B] 8.6	[B] 66	< 5.0	< 5.0	5.8	430	26
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	[B] < 10	[B] < 10	[B] 74	< 10	< 10	< 10	490	83
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	[B] 19	[B] 52	[B] 610	14	12	110	470	110
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	[B] 21	[B] 53	[B] 700	18	12	140	530	170
Naphthalene		M	2700	mg/kg	0.10								
Acenaphthylene		M	2700	mg/kg	0.10								
Acenaphthene		M	2700	mg/kg	0.10								
Fluorene		M	2700	mg/kg	0.10								
Phenanthrene		M	2700	mg/kg	0.10								
Anthracene		M	2700	mg/kg	0.10								
Fluoranthene		M	2700	mg/kg	0.10								
Pyrene		M	2700	mg/kg	0.10								
Benzo[a]anthracene		M	2700	mg/kg	0.10								
Chrysene		M	2700	mg/kg	0.10								
Benzo[b]fluoranthene		M	2700	mg/kg	0.10								
Benzo[k]fluoranthene		M	2700	mg/kg	0.10								
Benzo[a]pyrene		M	2700	mg/kg	0.10								
Indeno(1,2,3-c,d)Pyrene		M	2700	mg/kg	0.10								
Dibenz(a,h)Anthracene		M	2700	mg/kg	0.10								
Benzo[g,h,i]perylene		M	2700	mg/kg	0.10								
Total Of 16 PAH's		M	2700	mg/kg	2.0								
Dichlorodifluoromethane		U	2760	µg/kg	1.0								
Chloromethane		M	2760	µg/kg	1.0								
Vinyl Chloride		M	2760	µg/kg	1.0								
Bromomethane		M	2760	µg/kg	20								
Chloroethane		U	2760	µg/kg	2.0								
Trichlorofluoromethane		M	2760	µg/kg	1.0								
1,1-Dichloroethene		M	2760	µg/kg	1.0								

Results - Soil

Project: 315531 EAF Meltshop

Client: RSK Geosciences				**Chemtest Job No.:**		24-19915	24-19915	24-19915	24-21511	24-21511	24-21511	24-21511	24-21511
Quotation No.: Q24-35208				**Chemtest Sample ID.:**		1825245	1825246	1825247	1831342	1831343	1831344	1831345	1831346
Order No.: P02150967				Client Sample Ref.:					ES	ES	ES	ES	ES
				Client Sample ID.:					1	2	1	1	2
				Sample Location:		BH320	BH320	BH320	BH331	BH331	BH329	BH328	BH328
				Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Top Depth (m):		0.50	1.50	3.60	0.4	2.0	4.5	0.5	1.5
				Bottom Depth (m):									
				Date Sampled:		19-Jun-2024	19-Jun-2024	19-Jun-2024	04-Jul-2024	04-Jul-2024	04-Jul-2024	04-Jul-2024	04-Jul-2024
				Asbestos Lab:		DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**								
Dichloromethane		N	2760	µg/kg	50								
Trans 1,2-Dichloroethene		M	2760	µg/kg	1.0								
1,1-Dichloroethane		M	2760	µg/kg	1.0								
cis 1,2-Dichloroethene		M	2760	µg/kg	1.0								
Bromochloromethane		U	2760	µg/kg	5.0								
Trichloromethane		M	2760	µg/kg	1.0								
1,1,1-Trichloroethane		M	2760	µg/kg	1.0								
Tetrachloromethane		M	2760	µg/kg	1.0								
1,1-Dichloropropene		U	2760	µg/kg	1.0								
Benzene		M	2760	µg/kg	1.0								
1,2-Dichloroethane		M	2760	µg/kg	2.0								
Trichloroethene		N	2760	µg/kg	1.0								
1,2-Dichloropropane		M	2760	µg/kg	1.0								
Dibromomethane		M	2760	µg/kg	1.0								
Bromodichloromethane		M	2760	µg/kg	5.0								
cis-1,3-Dichloropropene		N	2760	µg/kg	10								
Toluene		M	2760	µg/kg	1.0								
Trans-1,3-Dichloropropene		N	2760	µg/kg	10								
1,1,2-Trichloroethane		M	2760	µg/kg	10								
Tetrachloroethene		M	2760	µg/kg	1.0								
1,3-Dichloropropane		U	2760	µg/kg	2.0								
Dibromochloromethane		U	2760	µg/kg	10								
1,2-Dibromoethane		M	2760	µg/kg	5.0								
Chlorobenzene		M	2760	µg/kg	1.0								
1,1,1,2-Tetrachloroethane		M	2760	µg/kg	2.0								
Ethylbenzene		M	2760	µg/kg	1.0								
m & p-Xylene		M	2760	µg/kg	1.0								
o-Xylene		M	2760	µg/kg	1.0								
Styrene		M	2760	µg/kg	1.0								
Tribromomethane		U	2760	µg/kg	1.0								
Isopropylbenzene		M	2760	µg/kg	1.0								
Bromobenzene		M	2760	µg/kg	1.0								
1,2,3-Trichloropropane		N	2760	µg/kg	50								
N-Propylbenzene		U	2760	µg/kg	1.0								
2-Chlorotoluene		M	2760	µg/kg	1.0								
1,3,5-Trimethylbenzene		M	2760	µg/kg	1.0								

Results - Soil

Project: 315531 EAF Meltshop

Client: RSK Geosciences				**Chemtest Job No.:**	24-19915	24-19915	24-19915	24-21511	24-21511	24-21511	24-21511	24-21511
Quotation No.: Q24-35208				**Chemtest Sample ID.:**	1825245	1825246	1825247	1831342	1831343	1831344	1831345	1831346
Order No.: P02150967				Client Sample Ref.:				ES	ES	ES	ES	ES
				Client Sample ID.:				1	2	1	1	2
				Sample Location:	BH320	BH320	BH320	BH331	BH331	BH329	BH328	BH328
				Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Top Depth (m):	0.50	1.50	3.60	0.4	2.0	4.5	0.5	1.5
				Bottom Depth (m):								
				Date Sampled:	19-Jun-2024	19-Jun-2024	19-Jun-2024	04-Jul-2024	04-Jul-2024	04-Jul-2024	04-Jul-2024	04-Jul-2024
				Asbestos Lab:	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**							
4-Chlorotoluene		U	2760	µg/kg	1.0							
Tert-Butylbenzene		U	2760	µg/kg	1.0							
1,2,4-Trimethylbenzene		M	2760	µg/kg	1.0							
Sec-Butylbenzene		U	2760	µg/kg	1.0							
1,3-Dichlorobenzene		M	2760	µg/kg	1.0							
4-Isopropyltoluene		U	2760	µg/kg	1.0							
1,4-Dichlorobenzene		M	2760	µg/kg	1.0							
N-Butylbenzene		U	2760	µg/kg	1.0							
1,2-Dichlorobenzene		M	2760	µg/kg	1.0							
1,2-Dibromo-3-Chloropropane		U	2760	µg/kg	50							
1,2,4-Trichlorobenzene		M	2760	µg/kg	1.0							
Hexachlorobutadiene		N	2760	µg/kg	1.0							
1,2,3-Trichlorobenzene		U	2760	µg/kg	2.0							
Methyl Tert-Butyl Ether		M	2760	µg/kg	1.0							
N-Nitrosodimethylamine		M	2790	mg/kg	0.50							
Phenol		M	2790	mg/kg	0.50							
2-Chlorophenol		N	2790	mg/kg	0.50							
Bis-(2-Chloroethyl)Ether		M	2790	mg/kg	0.50							
1,3-Dichlorobenzene		M	2790	mg/kg	0.50							
1,4-Dichlorobenzene		N	2790	mg/kg	0.50							
1,2-Dichlorobenzene		M	2790	mg/kg	0.50							
2-Methylphenol		M	2790	mg/kg	0.50							
Bis(2-Chloroisopropyl)Ether		M	2790	mg/kg	0.50							
Hexachloroethane		N	2790	mg/kg	0.50							
N-Nitrosodi-n-propylamine		M	2790	mg/kg	0.50							
4-Methylphenol		M	2790	mg/kg	0.50							
Nitrobenzene		N	2790	mg/kg	0.50							
Isophorone		M	2790	mg/kg	0.50							
2-Nitrophenol		N	2790	mg/kg	0.50							
2,4-Dimethylphenol		N	2790	mg/kg	0.50							
Bis(2-Chloroethoxy)Methane		M	2790	mg/kg	0.50							
2,4-Dichlorophenol		N	2790	mg/kg	0.50							
1,2,4-Trichlorobenzene		M	2790	mg/kg	0.50							
Naphthalene		M	2790	mg/kg	0.50							
4-Chloroaniline		N	2790	mg/kg	0.50							
Hexachlorobutadiene		M	2790	mg/kg	0.50							

Results - Soil

Project: 315531 EAF Meltshop

Client: RSK Geosciences				**Chemtest Job No.:**		24-19915	24-19915	24-19915	24-21511	24-21511	24-21511	24-21511	24-21511
Quotation No.: Q24-35208				**Chemtest Sample ID.:**		1825245	1825246	1825247	1831342	1831343	1831344	1831345	1831346
Order No.: P02150967				Client Sample Ref.:					ES	ES	ES	ES	ES
				Client Sample ID.:					1	2	1	1	2
				Sample Location:		BH320	BH320	BH320	BH331	BH331	BH329	BH328	BH328
				Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Top Depth (m):		0.50	1.50	3.60	0.4	2.0	4.5	0.5	1.5
				Bottom Depth (m):									
				Date Sampled:		19-Jun-2024	19-Jun-2024	19-Jun-2024	04-Jul-2024	04-Jul-2024	04-Jul-2024	04-Jul-2024	04-Jul-2024
				Asbestos Lab:		DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**								
4-Chloro-3-Methylphenol		N	2790	mg/kg	0.50								
2-Methylnaphthalene		M	2790	mg/kg	0.50								
4-Nitrophenol		N	2790	mg/kg	0.50								
2,4,6-Trichlorophenol		N	2790	mg/kg	0.50								
2,4,5-Trichlorophenol		N	2790	mg/kg	0.50								
2-Chloronaphthalene		M	2790	mg/kg	0.50								
2-Nitroaniline		N	2790	mg/kg	0.50								
Acenaphthylene		M	2790	mg/kg	0.50								
Dimethylphthalate		M	2790	mg/kg	0.50								
2,6-Dinitrotoluene		N	2790	mg/kg	0.50								
Acenaphthene		M	2790	mg/kg	0.50								
3-Nitroaniline		N	2790	mg/kg	0.50								
Dibenzofuran		M	2790	mg/kg	0.50								
4-Chlorophenylphenylether		M	2790	mg/kg	0.50								
2,4-Dinitrotoluene		N	2790	mg/kg	0.50								
Fluorene		M	2790	mg/kg	0.50								
Diethyl Phthalate		M	2790	mg/kg	0.50								
4-Nitroaniline		N	2790	mg/kg	0.50								
Azobenzene		M	2790	mg/kg	0.50								
4-Bromophenylphenyl Ether		M	2790	mg/kg	0.50								
Hexachlorobenzene		M	2790	mg/kg	0.50								
Phenanthrene		M	2790	mg/kg	0.50								
Anthracene		M	2790	mg/kg	0.50								
Carbazole		M	2790	mg/kg	0.50								
Di-N-Butyl Phthalate		N	2790	mg/kg	0.50								
Fluoranthene		M	2790	mg/kg	0.50								
Pyrene		M	2790	mg/kg	0.50								
Butylbenzyl Phthalate		N	2790	mg/kg	0.50								
Benzo[a]anthracene		M	2790	mg/kg	0.50								
Chrysene		M	2790	mg/kg	0.50								
Bis(2-Ethylhexyl)Phthalate		N	2790	mg/kg	0.50								
Di-N-Octyl Phthalate		N	2790	mg/kg	0.50								
Benzo[b]fluoranthene		M	2790	mg/kg	0.50								
Benzo[k]fluoranthene		M	2790	mg/kg	0.50								
Benzo[a]pyrene		M	2790	mg/kg	0.50								
Indeno(1,2,3-c,d)Pyrene		N	2790	mg/kg	0.50								

Results - Soil

Project: 315531 EAF Meltshop

Client: RSK Geosciences				**Chemtest Job No.:**		24-19915	24-19915	24-19915	24-21511	24-21511	24-21511	24-21511	24-21511
Quotation No.: Q24-35208				**Chemtest Sample ID.:**		1825245	1825246	1825247	1831342	1831343	1831344	1831345	1831346
Order No.: P02150967				Client Sample Ref.:					ES	ES	ES	ES	ES
				Client Sample ID.:					1	2	1	1	2
				Sample Location:		BH320	BH320	BH320	BH331	BH331	BH329	BH328	BH328
				Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Top Depth (m):		0.50	1.50	3.60	0.4	2.0	4.5	0.5	1.5
				Bottom Depth (m):									
				Date Sampled:		19-Jun-2024	19-Jun-2024	19-Jun-2024	04-Jul-2024	04-Jul-2024	04-Jul-2024	04-Jul-2024	04-Jul-2024
				Asbestos Lab:		DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**								
Dibenz(a,h)Anthracene		N	2790	mg/kg	0.50								
Benzo[g,h,i]perylene		M	2790	mg/kg	0.50								
Naphthalene		M	2800	mg/kg	0.10	< 0.10	3.7	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	0.16	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	0.49	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	0.74	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	0.47	5.4	< 0.10	< 0.10	< 0.10	0.15	0.24	< 0.10
Anthracene		M	2800	mg/kg	0.10	< 0.10	0.93	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene		M	2800	mg/kg	0.10	0.29	1.9	< 0.10	< 0.10	< 0.10	0.17	0.14	< 0.10
Pyrene		M	2800	mg/kg	0.10	0.26	1.3	< 0.10	< 0.10	< 0.10	0.13	< 0.10	< 0.10
Benzo[a]anthracene		M	2800	mg/kg	0.10	< 0.10	1.0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene		M	2800	mg/kg	0.10	< 0.10	1.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	< 0.10	1.7	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	< 0.10	0.48	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene		M	2800	mg/kg	0.10	< 0.10	0.77	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	< 0.10	0.86	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	0.17	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	< 0.10	0.72	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's		N	2800	mg/kg	2.0	< 2.0	21	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0

Results - Soil

Project: 315531 EAF Meltshop

Client: RSK Geosciences				**Chemtest Job No.:**		24-21980	24-21980	24-21980	24-21980	24-22474	24-22474	24-22474	24-22474
Quotation No.: Q24-35208				**Chemtest Sample ID.:**		1833606	1833608	1833609	1833610	1835788	1835789	1835790	1835791
Order No.: P02150967				Client Sample Ref.:		1	3	4	5	1	2	3	1
				Client Sample ID.:		ES	ES	ES	ES				
				Sample Location:		BH311	BH311	BH311	BH311	TP389	TP389	TP389	TP390
				Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Top Depth (m):		0.50	2.50	3.50	4.20	0.5	1.60	2.80	0.70
				Bottom Depth (m):									
				Date Sampled:		08-Jul-2024	08-Jul-2024	08-Jul-2024	08-Jul-2024	11-Jul-2024	11-Jul-2024	11-Jul-2024	11-Jul-2024
				Asbestos Lab:		DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**								
ACM Type		U	2192		N/A	-	-	-	-	-	-	-	-
Asbestos Identification		U	2192		N/A	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Asbestos by Gravimetry		U	2192	%	0.001								
Total Asbestos		U	2192	%	0.001								
Moisture		N	2030	%	0.020	3.8	4.4	3.8	10	8.4	6.6	6.6	7.0
Soil Colour		N	2040		N/A	Grey	Grey	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones
Soil Texture		N	2040		N/A	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand
pH at 20C		M	2010		4.0								
Arsenic		M	2455	mg/kg	0.5	5.9	3.6	8.0	7.4	4.6	4.3	8.5	8.1
Cadmium		M	2455	mg/kg	0.10	< 0.10	< 0.10	0.73	< 0.10	0.48	0.15	0.12	0.44
Chromium		M	2455	mg/kg	0.5	2500	1600	2100	800	1300	820	140	530
Copper		M	2455	mg/kg	0.50	41	37	46	16	41	23	8.9	42
Mercury		M	2455	mg/kg	0.05	0.05	< 0.05	0.06	0.05	0.06	0.05	< 0.05	0.07
Nickel		M	2455	mg/kg	0.50	19	9.9	30	9.5	27	20	8.7	37
Lead		M	2455	mg/kg	0.50	10	16	40	27	43	21	13	47
Selenium		M	2455	mg/kg	0.25	1.2	5.5	1.7	1.1	0.82	0.49	0.37	0.81
Zinc		M	2455	mg/kg	0.50	34	59	130	84	260	210	55	110
Chromium (Hexavalent)		N	2490	mg/kg	0.50	0.78	< 0.50	< 0.50	< 0.50	< 0.50	0.68	< 0.50	< 0.50
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	4.9	4.9	< 2.0	2.0	9.1	11	8.0	11
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	< 1.0	1.1	22	< 1.0	< 1.0
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	< 2.0	< 2.0	< 2.0	< 2.0	25	66	< 2.0	4.0
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	56	< 3.0	9.1	8.7	250	450	65	83
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	18	< 10	12	16	60	89	22	48
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	61	7.0	9.9	11	290	550	74	99
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	80	< 10	22	27	350	640	96	150
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

Results - Soil

Project: 315531 EAF Meltshop

Client: RSK Geosciences				**Chemtest Job No.:**		24-21980	24-21980	24-21980	24-21980	24-22474	24-22474	24-22474	24-22474
Quotation No.: Q24-35208				**Chemtest Sample ID.:**		1833606	1833608	1833609	1833610	1835788	1835789	1835790	1835791
Order No.: P02150967				Client Sample Ref.:		1	3	4	5	1	2	3	1
				Client Sample ID.:		ES	ES	ES	ES				
				Sample Location:		BH311	BH311	BH311	BH311	TP389	TP389	TP389	TP390
				Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Top Depth (m):		0.50	2.50	3.50	4.20	0.5	1.60	2.80	0.70
				Bottom Depth (m):									
				Date Sampled:		08-Jul-2024	08-Jul-2024	08-Jul-2024	08-Jul-2024	11-Jul-2024	11-Jul-2024	11-Jul-2024	11-Jul-2024
				Asbestos Lab:		DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**								
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	< 1.0	1.1	1.2	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	< 2.0	< 2.0	3.3	4.2	2.7	< 2.0	< 2.0	< 2.0
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	8.3	7.2
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	2.0	< 1.0	4.4	7.0	12	11	11	11
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	< 5.0	< 5.0	< 5.0	5.7	< 5.0	< 5.0	8.3	7.2
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	< 10	< 10	< 10	13	12	11	19	18
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	65	< 10	14	16	290	550	82	110
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	85	< 10	30	40	360	650	120	160
Naphthalene		M	2700	mg/kg	0.10								
Acenaphthylene		M	2700	mg/kg	0.10								
Acenaphthene		M	2700	mg/kg	0.10								
Fluorene		M	2700	mg/kg	0.10								
Phenanthrene		M	2700	mg/kg	0.10								
Anthracene		M	2700	mg/kg	0.10								
Fluoranthene		M	2700	mg/kg	0.10								
Pyrene		M	2700	mg/kg	0.10								
Benzo[a]anthracene		M	2700	mg/kg	0.10								
Chrysene		M	2700	mg/kg	0.10								
Benzo[b]fluoranthene		M	2700	mg/kg	0.10								
Benzo[k]fluoranthene		M	2700	mg/kg	0.10								
Benzo[a]pyrene		M	2700	mg/kg	0.10								
Indeno(1,2,3-c,d)Pyrene		M	2700	mg/kg	0.10								
Dibenz(a,h)Anthracene		M	2700	mg/kg	0.10								
Benzo[g,h,i]perylene		M	2700	mg/kg	0.10								
Total Of 16 PAH's		M	2700	mg/kg	2.0								
Dichlorodifluoromethane		U	2760	µg/kg	1.0								
Chloromethane		M	2760	µg/kg	1.0								
Vinyl Chloride		M	2760	µg/kg	1.0								
Bromomethane		M	2760	µg/kg	20								
Chloroethane		U	2760	µg/kg	2.0								
Trichlorofluoromethane		M	2760	µg/kg	1.0								
1,1-Dichloroethene		M	2760	µg/kg	1.0								

Results - Soil

Project: 315531 EAF Meltshop

Client: RSK Geosciences				**Chemtest Job No.:**		24-21980	24-21980	24-21980	24-21980	24-22474	24-22474	24-22474	24-22474
Quotation No.: Q24-35208				**Chemtest Sample ID.:**		1833606	1833608	1833609	1833610	1835788	1835789	1835790	1835791
Order No.: P02150967				Client Sample Ref.:		1	3	4	5	1	2	3	1
				Client Sample ID.:		ES	ES	ES	ES				
				Sample Location:		BH311	BH311	BH311	BH311	TP389	TP389	TP389	TP390
				Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Top Depth (m):		0.50	2.50	3.50	4.20	0.5	1.60	2.80	0.70
				Bottom Depth (m):									
				Date Sampled:		08-Jul-2024	08-Jul-2024	08-Jul-2024	08-Jul-2024	11-Jul-2024	11-Jul-2024	11-Jul-2024	11-Jul-2024
				Asbestos Lab:		DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**								
Dichloromethane		N	2760	µg/kg	50								
Trans 1,2-Dichloroethene		M	2760	µg/kg	1.0								
1,1-Dichloroethane		M	2760	µg/kg	1.0								
cis 1,2-Dichloroethene		M	2760	µg/kg	1.0								
Bromochloromethane		U	2760	µg/kg	5.0								
Trichloromethane		M	2760	µg/kg	1.0								
1,1,1-Trichloroethane		M	2760	µg/kg	1.0								
Tetrachloromethane		M	2760	µg/kg	1.0								
1,1-Dichloropropene		U	2760	µg/kg	1.0								
Benzene		M	2760	µg/kg	1.0								
1,2-Dichloroethane		M	2760	µg/kg	2.0								
Trichloroethene		N	2760	µg/kg	1.0								
1,2-Dichloropropane		M	2760	µg/kg	1.0								
Dibromomethane		M	2760	µg/kg	1.0								
Bromodichloromethane		M	2760	µg/kg	5.0								
cis-1,3-Dichloropropene		N	2760	µg/kg	10								
Toluene		M	2760	µg/kg	1.0								
Trans-1,3-Dichloropropene		N	2760	µg/kg	10								
1,1,2-Trichloroethane		M	2760	µg/kg	10								
Tetrachloroethene		M	2760	µg/kg	1.0								
1,3-Dichloropropane		U	2760	µg/kg	2.0								
Dibromochloromethane		U	2760	µg/kg	10								
1,2-Dibromoethane		M	2760	µg/kg	5.0								
Chlorobenzene		M	2760	µg/kg	1.0								
1,1,1,2-Tetrachloroethane		M	2760	µg/kg	2.0								
Ethylbenzene		M	2760	µg/kg	1.0								
m & p-Xylene		M	2760	µg/kg	1.0								
o-Xylene		M	2760	µg/kg	1.0								
Styrene		M	2760	µg/kg	1.0								
Tribromomethane		U	2760	µg/kg	1.0								
Isopropylbenzene		M	2760	µg/kg	1.0								
Bromobenzene		M	2760	µg/kg	1.0								
1,2,3-Trichloropropane		N	2760	µg/kg	50								
N-Propylbenzene		U	2760	µg/kg	1.0								
2-Chlorotoluene		M	2760	µg/kg	1.0								
1,3,5-Trimethylbenzene		M	2760	µg/kg	1.0								

Results - Soil

Project: 315531 EAF Meltshop

Client: RSK Geosciences				**Chemtest Job No.:**		24-21980	24-21980	24-21980	24-21980	24-22474	24-22474	24-22474	24-22474
Quotation No.: Q24-35208				**Chemtest Sample ID.:**		1833606	1833608	1833609	1833610	1835788	1835789	1835790	1835791
Order No.: P02150967				Client Sample Ref.:		1	3	4	5	1	2	3	1
				Client Sample ID.:		ES	ES	ES	ES				
				Sample Location:		BH311	BH311	BH311	BH311	TP389	TP389	TP389	TP390
				Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Top Depth (m):		0.50	2.50	3.50	4.20	0.5	1.60	2.80	0.70
				Bottom Depth (m):									
				Date Sampled:		08-Jul-2024	08-Jul-2024	08-Jul-2024	08-Jul-2024	11-Jul-2024	11-Jul-2024	11-Jul-2024	11-Jul-2024
				Asbestos Lab:		DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**								
4-Chlorotoluene		U	2760	µg/kg	1.0								
Tert-Butylbenzene		U	2760	µg/kg	1.0								
1,2,4-Trimethylbenzene		M	2760	µg/kg	1.0								
Sec-Butylbenzene		U	2760	µg/kg	1.0								
1,3-Dichlorobenzene		M	2760	µg/kg	1.0								
4-Isopropyltoluene		U	2760	µg/kg	1.0								
1,4-Dichlorobenzene		M	2760	µg/kg	1.0								
N-Butylbenzene		U	2760	µg/kg	1.0								
1,2-Dichlorobenzene		M	2760	µg/kg	1.0								
1,2-Dibromo-3-Chloropropane		U	2760	µg/kg	50								
1,2,4-Trichlorobenzene		M	2760	µg/kg	1.0								
Hexachlorobutadiene		N	2760	µg/kg	1.0								
1,2,3-Trichlorobenzene		U	2760	µg/kg	2.0								
Methyl Tert-Butyl Ether		M	2760	µg/kg	1.0								
N-Nitrosodimethylamine		M	2790	mg/kg	0.50								
Phenol		M	2790	mg/kg	0.50								
2-Chlorophenol		N	2790	mg/kg	0.50								
Bis-(2-Chloroethyl)Ether		M	2790	mg/kg	0.50								
1,3-Dichlorobenzene		M	2790	mg/kg	0.50								
1,4-Dichlorobenzene		N	2790	mg/kg	0.50								
1,2-Dichlorobenzene		M	2790	mg/kg	0.50								
2-Methylphenol		M	2790	mg/kg	0.50								
Bis(2-Chloroisopropyl)Ether		M	2790	mg/kg	0.50								
Hexachloroethane		N	2790	mg/kg	0.50								
N-Nitrosodi-n-propylamine		M	2790	mg/kg	0.50								
4-Methylphenol		M	2790	mg/kg	0.50								
Nitrobenzene		N	2790	mg/kg	0.50								
Isophorone		M	2790	mg/kg	0.50								
2-Nitrophenol		N	2790	mg/kg	0.50								
2,4-Dimethylphenol		N	2790	mg/kg	0.50								
Bis(2-Chloroethoxy)Methane		M	2790	mg/kg	0.50								
2,4-Dichlorophenol		N	2790	mg/kg	0.50								
1,2,4-Trichlorobenzene		M	2790	mg/kg	0.50								
Naphthalene		M	2790	mg/kg	0.50								
4-Chloroaniline		N	2790	mg/kg	0.50								
Hexachlorobutadiene		M	2790	mg/kg	0.50								

Results - Soil

Project: 315531 EAF Meltshop

Client: RSK Geosciences				**Chemtest Job No.:**		24-21980	24-21980	24-21980	24-21980	24-22474	24-22474	24-22474	24-22474
Quotation No.: Q24-35208				**Chemtest Sample ID.:**		1833606	1833608	1833609	1833610	1835788	1835789	1835790	1835791
Order No.: P02150967				Client Sample Ref.:		1	3	4	5	1	2	3	1
				Client Sample ID.:		ES	ES	ES	ES				
				Sample Location:		BH311	BH311	BH311	BH311	TP389	TP389	TP389	TP390
				Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Top Depth (m):		0.50	2.50	3.50	4.20	0.5	1.60	2.80	0.70
				Bottom Depth (m):									
				Date Sampled:		08-Jul-2024	08-Jul-2024	08-Jul-2024	08-Jul-2024	11-Jul-2024	11-Jul-2024	11-Jul-2024	11-Jul-2024
				Asbestos Lab:		DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**								
4-Chloro-3-Methylphenol		N	2790	mg/kg	0.50								
2-Methylnaphthalene		M	2790	mg/kg	0.50								
4-Nitrophenol		N	2790	mg/kg	0.50								
2,4,6-Trichlorophenol		N	2790	mg/kg	0.50								
2,4,5-Trichlorophenol		N	2790	mg/kg	0.50								
2-Chloronaphthalene		M	2790	mg/kg	0.50								
2-Nitroaniline		N	2790	mg/kg	0.50								
Acenaphthylene		M	2790	mg/kg	0.50								
Dimethylphthalate		M	2790	mg/kg	0.50								
2,6-Dinitrotoluene		N	2790	mg/kg	0.50								
Acenaphthene		M	2790	mg/kg	0.50								
3-Nitroaniline		N	2790	mg/kg	0.50								
Dibenzofuran		M	2790	mg/kg	0.50								
4-Chlorophenylphenylether		M	2790	mg/kg	0.50								
2,4-Dinitrotoluene		N	2790	mg/kg	0.50								
Fluorene		M	2790	mg/kg	0.50								
Diethyl Phthalate		M	2790	mg/kg	0.50								
4-Nitroaniline		N	2790	mg/kg	0.50								
Azobenzene		M	2790	mg/kg	0.50								
4-Bromophenylphenyl Ether		M	2790	mg/kg	0.50								
Hexachlorobenzene		M	2790	mg/kg	0.50								
Phenanthrene		M	2790	mg/kg	0.50								
Anthracene		M	2790	mg/kg	0.50								
Carbazole		M	2790	mg/kg	0.50								
Di-N-Butyl Phthalate		N	2790	mg/kg	0.50								
Fluoranthene		M	2790	mg/kg	0.50								
Pyrene		M	2790	mg/kg	0.50								
Butylbenzyl Phthalate		N	2790	mg/kg	0.50								
Benzo[a]anthracene		M	2790	mg/kg	0.50								
Chrysene		M	2790	mg/kg	0.50								
Bis(2-Ethylhexyl)Phthalate		N	2790	mg/kg	0.50								
Di-N-Octyl Phthalate		N	2790	mg/kg	0.50								
Benzo[b]fluoranthene		M	2790	mg/kg	0.50								
Benzo[k]fluoranthene		M	2790	mg/kg	0.50								
Benzo[a]pyrene		M	2790	mg/kg	0.50								
Indeno(1,2,3-c,d)Pyrene		N	2790	mg/kg	0.50								

Results - Soil

Project: 315531 EAF Meltshop

Client: RSK Geosciences				**Chemtest Job No.:**		24-21980	24-21980	24-21980	24-21980	24-22474	24-22474	24-22474	24-22474
Quotation No.: Q24-35208				**Chemtest Sample ID.:**		1833606	1833608	1833609	1833610	1835788	1835789	1835790	1835791
Order No.: P02150967				Client Sample Ref.:		1	3	4	5	1	2	3	1
				Client Sample ID.:		ES	ES	ES	ES				
				Sample Location:		BH311	BH311	BH311	BH311	TP389	TP389	TP389	TP390
				Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Top Depth (m):		0.50	2.50	3.50	4.20	0.5	1.60	2.80	0.70
				Bottom Depth (m):									
				Date Sampled:		08-Jul-2024	08-Jul-2024	08-Jul-2024	08-Jul-2024	11-Jul-2024	11-Jul-2024	11-Jul-2024	11-Jul-2024
				Asbestos Lab:		DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**								
Dibenz(a,h)Anthracene		N	2790	mg/kg	0.50								
Benzo[g,h,i]perylene		M	2790	mg/kg	0.50								
Naphthalene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	< 0.10	1.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.26
Anthracene		M	2800	mg/kg	0.10	< 0.10	0.49	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene		M	2800	mg/kg	0.10	< 0.10	1.2	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.42
Pyrene		M	2800	mg/kg	0.10	< 0.10	1.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.36
Benzo[a]anthracene		M	2800	mg/kg	0.10	< 0.10	0.73	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene		M	2800	mg/kg	0.10	< 0.10	0.63	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	< 0.10	0.76	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	< 0.10	0.55	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene		M	2800	mg/kg	0.10	< 0.10	0.71	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	< 0.10	0.67	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	0.49	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	< 0.10	0.62	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's		N	2800	mg/kg	2.0	< 2.0	9.1	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0

Results - Soil

Project: 315531 EAF Meltshop

Client: RSK Geosciences					**Chemtest Job No.:**	24-22474	24-24075	24-24075	24-24075	24-24075	24-24075	24-24075	24-24075
Quotation No.: Q24-35208					**Chemtest Sample ID.:**	1835792	1842400	1842401	1842402	1842403	1842404	1842405	1842406
Order No.: P02150967					Client Sample Ref.:	2	ES1	ES2	ES1	ES2	ES3	ES2	ES3
					Client Sample ID.:								
					Sample Location:	TP390	TP308	TP308	BH304	BH304	BH304	BH315	BH315
					Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
					Top Depth (m):	3.50	0.6	1.0	0.5	1.0	2.5	2.0	3.0
					Bottom Depth (m):								
					Date Sampled:	11-Jul-2024	25-Jul-2024	25-Jul-2024	25-Jul-2024	25-Jul-2024	25-Jul-2024	25-Jul-2024	25-Jul-2024
					Asbestos Lab:	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**								
ACM Type		U	2192		N/A	-	-	-	Fibres/Clumps	-	-	-	-
Asbestos Identification		U	2192		N/A	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	Amosite Chrysotile	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Asbestos by Gravimetry		U	2192	%	0.001				0.002				
Total Asbestos		U	2192	%	0.001				0.002				
Moisture		N	2030	%	0.020	19	6.0	6.8	4.8	17	19	13	16
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones	Stones	Stones	None	None	Stones	Stones
Soil Texture		N	2040		N/A	Clay	Sand	Sand	Sand	Sand	Sand	Sand	Sand
pH at 20C		M	2010		4.0								
Arsenic		M	2455	mg/kg	0.5	5.0	2.5	14	9.4	7.6	7.6	92	15
Cadmium		M	2455	mg/kg	0.10	< 0.10	0.88	0.85	0.38	< 0.10	< 0.10	0.28	< 0.10
Chromium		M	2455	mg/kg	0.5	31	880	860	2500	4.2	14	19	2.3
Copper		M	2455	mg/kg	0.50	4.0	28	94	58	1.5	3.6	470	38
Mercury		M	2455	mg/kg	0.05	< 0.05	0.58	0.30	0.10	< 0.05	< 0.05	0.16	< 0.05
Nickel		M	2455	mg/kg	0.50	11	25	44	26	3.3	4.0	47	3.4
Lead		M	2455	mg/kg	0.50	8.5	46	130	70	2.9	4.6	72	23
Selenium		M	2455	mg/kg	0.25	0.30	0.87	1.3	0.92	< 0.25	< 0.25	0.79	< 0.25
Zinc		M	2455	mg/kg	0.50	34	320	350	340	13	22	120	42
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50	0.54	< 0.50	3.5	< 0.50	< 0.50	< 0.50	< 0.50
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	12	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	4.1	7.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	13
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	4.6	35	11	2.6	< 2.0	< 2.0	< 2.0	36
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	35	91	53	45	< 3.0	< 3.0	51	180
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	17	22	< 10	15	< 10	< 10	19	25
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	55	130	65	49	< 5.0	< 5.0	51	230
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	73	150	65	63	< 10	< 10	70	250
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

Results - Soil

Project: 315531 EAF Meltshop

Client: RSK Geosciences						**Chemtest Job No.:**	24-22474	24-24075	24-24075	24-24075	24-24075	24-24075	24-24075	24-24075
Quotation No.: Q24-35208						**Chemtest Sample ID.:**	1835792	1842400	1842401	1842402	1842403	1842404	1842405	1842406
Order No.: P02150967						Client Sample Ref.:	2	ES1	ES2	ES1	ES2	ES3	ES2	ES3
						Client Sample ID.:								
						Sample Location:	TP390	TP308	TP308	BH304	BH304	BH304	BH315	BH315
						Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
						Top Depth (m):	3.50	0.6	1.0	0.5	1.0	2.5	2.0	3.0
						Bottom Depth (m):								
						Date Sampled:	11-Jul-2024	25-Jul-2024	25-Jul-2024	25-Jul-2024	25-Jul-2024	25-Jul-2024	25-Jul-2024	25-Jul-2024
						Asbestos Lab:	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**									
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25		< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00		2.1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00		1.6	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.1	19
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00		< 2.0	4.3	3.4	< 2.0	< 2.0	< 2.0	< 2.0	23
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00		4.7	59	15	12	< 2.0	< 2.0	< 2.0	40
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00		13	28	5.8	17	1.3	< 1.0	1.8	68
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00		8.4	64	18	13	< 5.0	< 5.0	< 5.0	82
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00		21	91	24	30	< 10	< 10	< 10	150
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00		64	200	83	61	< 10	< 10	54	310
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00		94	250	89	93	< 10	< 10	75	400
Naphthalene		M	2700	mg/kg	0.10									
Acenaphthylene		M	2700	mg/kg	0.10									
Acenaphthene		M	2700	mg/kg	0.10									
Fluorene		M	2700	mg/kg	0.10									
Phenanthrene		M	2700	mg/kg	0.10									
Anthracene		M	2700	mg/kg	0.10									
Fluoranthene		M	2700	mg/kg	0.10									
Pyrene		M	2700	mg/kg	0.10									
Benzo[a]anthracene		M	2700	mg/kg	0.10									
Chrysene		M	2700	mg/kg	0.10									
Benzo[b]fluoranthene		M	2700	mg/kg	0.10									
Benzo[k]fluoranthene		M	2700	mg/kg	0.10									
Benzo[a]pyrene		M	2700	mg/kg	0.10									
Indeno(1,2,3-c,d)Pyrene		M	2700	mg/kg	0.10									
Dibenz(a,h)Anthracene		M	2700	mg/kg	0.10									
Benzo[g,h,i]perylene		M	2700	mg/kg	0.10									
Total Of 16 PAH's		M	2700	mg/kg	2.0									
Dichlorodifluoromethane		U	2760	µg/kg	1.0									
Chloromethane		M	2760	µg/kg	1.0									
Vinyl Chloride		M	2760	µg/kg	1.0									
Bromomethane		M	2760	µg/kg	20									
Chloroethane		U	2760	µg/kg	2.0									
Trichlorofluoromethane		M	2760	µg/kg	1.0									
1,1-Dichloroethene		M	2760	µg/kg	1.0									

Results - Soil

Project: 315531 EAF Meltshop

Client: RSK Geosciences				**Chemtest Job No.:**		24-22474	24-24075	24-24075	24-24075	24-24075	24-24075	24-24075	24-24075
Quotation No.: Q24-35208				**Chemtest Sample ID.:**		1835792	1842400	1842401	1842402	1842403	1842404	1842405	1842406
Order No.: P02150967				Client Sample Ref.:		2	ES1	ES2	ES1	ES2	ES3	ES2	ES3
				Client Sample ID.:									
				Sample Location:		TP390	TP308	TP308	BH304	BH304	BH304	BH315	BH315
				Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Top Depth (m):		3.50	0.6	1.0	0.5	1.0	2.5	2.0	3.0
				Bottom Depth (m):									
				Date Sampled:		11-Jul-2024	25-Jul-2024	25-Jul-2024	25-Jul-2024	25-Jul-2024	25-Jul-2024	25-Jul-2024	25-Jul-2024
				Asbestos Lab:		DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**								
Dichloromethane		N	2760	µg/kg	50								
Trans 1,2-Dichloroethene		M	2760	µg/kg	1.0								
1,1-Dichloroethane		M	2760	µg/kg	1.0								
cis 1,2-Dichloroethene		M	2760	µg/kg	1.0								
Bromochloromethane		U	2760	µg/kg	5.0								
Trichloromethane		M	2760	µg/kg	1.0								
1,1,1-Trichloroethane		M	2760	µg/kg	1.0								
Tetrachloromethane		M	2760	µg/kg	1.0								
1,1-Dichloropropene		U	2760	µg/kg	1.0								
Benzene		M	2760	µg/kg	1.0								
1,2-Dichloroethane		M	2760	µg/kg	2.0								
Trichloroethene		N	2760	µg/kg	1.0								
1,2-Dichloropropane		M	2760	µg/kg	1.0								
Dibromomethane		M	2760	µg/kg	1.0								
Bromodichloromethane		M	2760	µg/kg	5.0								
cis-1,3-Dichloropropene		N	2760	µg/kg	10								
Toluene		M	2760	µg/kg	1.0								
Trans-1,3-Dichloropropene		N	2760	µg/kg	10								
1,1,2-Trichloroethane		M	2760	µg/kg	10								
Tetrachloroethene		M	2760	µg/kg	1.0								
1,3-Dichloropropane		U	2760	µg/kg	2.0								
Dibromochloromethane		U	2760	µg/kg	10								
1,2-Dibromoethane		M	2760	µg/kg	5.0								
Chlorobenzene		M	2760	µg/kg	1.0								
1,1,1,2-Tetrachloroethane		M	2760	µg/kg	2.0								
Ethylbenzene		M	2760	µg/kg	1.0								
m & p-Xylene		M	2760	µg/kg	1.0								
o-Xylene		M	2760	µg/kg	1.0								
Styrene		M	2760	µg/kg	1.0								
Tribromomethane		U	2760	µg/kg	1.0								
Isopropylbenzene		M	2760	µg/kg	1.0								
Bromobenzene		M	2760	µg/kg	1.0								
1,2,3-Trichloropropane		N	2760	µg/kg	50								
N-Propylbenzene		U	2760	µg/kg	1.0								
2-Chlorotoluene		M	2760	µg/kg	1.0								
1,3,5-Trimethylbenzene		M	2760	µg/kg	1.0								

Results - Soil

Project: 315531 EAF Meltshop

Client: RSK Geosciences				**Chemtest Job No.:**		24-22474	24-24075	24-24075	24-24075	24-24075	24-24075	24-24075	24-24075
Quotation No.: Q24-35208				**Chemtest Sample ID.:**		1835792	1842400	1842401	1842402	1842403	1842404	1842405	1842406
Order No.: P02150967				Client Sample Ref.:		2	ES1	ES2	ES1	ES2	ES3	ES2	ES3
				Client Sample ID.:									
				Sample Location:		TP390	TP308	TP308	BH304	BH304	BH304	BH315	BH315
				Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Top Depth (m):		3.50	0.6	1.0	0.5	1.0	2.5	2.0	3.0
				Bottom Depth (m):									
				Date Sampled:		11-Jul-2024	25-Jul-2024	25-Jul-2024	25-Jul-2024	25-Jul-2024	25-Jul-2024	25-Jul-2024	25-Jul-2024
				Asbestos Lab:		DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**								
4-Chlorotoluene		U	2760	µg/kg	1.0								
Tert-Butylbenzene		U	2760	µg/kg	1.0								
1,2,4-Trimethylbenzene		M	2760	µg/kg	1.0								
Sec-Butylbenzene		U	2760	µg/kg	1.0								
1,3-Dichlorobenzene		M	2760	µg/kg	1.0								
4-Isopropyltoluene		U	2760	µg/kg	1.0								
1,4-Dichlorobenzene		M	2760	µg/kg	1.0								
N-Butylbenzene		U	2760	µg/kg	1.0								
1,2-Dichlorobenzene		M	2760	µg/kg	1.0								
1,2-Dibromo-3-Chloropropane		U	2760	µg/kg	50								
1,2,4-Trichlorobenzene		M	2760	µg/kg	1.0								
Hexachlorobutadiene		N	2760	µg/kg	1.0								
1,2,3-Trichlorobenzene		U	2760	µg/kg	2.0								
Methyl Tert-Butyl Ether		M	2760	µg/kg	1.0								
N-Nitrosodimethylamine		M	2790	mg/kg	0.50								
Phenol		M	2790	mg/kg	0.50								
2-Chlorophenol		N	2790	mg/kg	0.50								
Bis-(2-Chloroethyl)Ether		M	2790	mg/kg	0.50								
1,3-Dichlorobenzene		M	2790	mg/kg	0.50								
1,4-Dichlorobenzene		N	2790	mg/kg	0.50								
1,2-Dichlorobenzene		M	2790	mg/kg	0.50								
2-Methylphenol		M	2790	mg/kg	0.50								
Bis(2-Chloroisopropyl)Ether		M	2790	mg/kg	0.50								
Hexachloroethane		N	2790	mg/kg	0.50								
N-Nitrosodi-n-propylamine		M	2790	mg/kg	0.50								
4-Methylphenol		M	2790	mg/kg	0.50								
Nitrobenzene		N	2790	mg/kg	0.50								
Isophorone		M	2790	mg/kg	0.50								
2-Nitrophenol		N	2790	mg/kg	0.50								
2,4-Dimethylphenol		N	2790	mg/kg	0.50								
Bis(2-Chloroethoxy)Methane		M	2790	mg/kg	0.50								
2,4-Dichlorophenol		N	2790	mg/kg	0.50								
1,2,4-Trichlorobenzene		M	2790	mg/kg	0.50								
Naphthalene		M	2790	mg/kg	0.50								
4-Chloroaniline		N	2790	mg/kg	0.50								
Hexachlorobutadiene		M	2790	mg/kg	0.50								

Results - Soil

Project: 315531 EAF Meltshop

Client: RSK Geosciences				**Chemtest Job No.:**		24-22474	24-24075	24-24075	24-24075	24-24075	24-24075	24-24075	24-24075
Quotation No.: Q24-35208				**Chemtest Sample ID.:**		1835792	1842400	1842401	1842402	1842403	1842404	1842405	1842406
Order No.: P02150967				Client Sample Ref.:		2	ES1	ES2	ES1	ES2	ES3	ES2	ES3
				Client Sample ID.:									
				Sample Location:		TP390	TP308	TP308	BH304	BH304	BH304	BH315	BH315
				Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Top Depth (m):		3.50	0.6	1.0	0.5	1.0	2.5	2.0	3.0
				Bottom Depth (m):									
				Date Sampled:		11-Jul-2024	25-Jul-2024	25-Jul-2024	25-Jul-2024	25-Jul-2024	25-Jul-2024	25-Jul-2024	25-Jul-2024
				Asbestos Lab:		DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**								
4-Chloro-3-Methylphenol		N	2790	mg/kg	0.50								
2-Methylnaphthalene		M	2790	mg/kg	0.50								
4-Nitrophenol		N	2790	mg/kg	0.50								
2,4,6-Trichlorophenol		N	2790	mg/kg	0.50								
2,4,5-Trichlorophenol		N	2790	mg/kg	0.50								
2-Chloronaphthalene		M	2790	mg/kg	0.50								
2-Nitroaniline		N	2790	mg/kg	0.50								
Acenaphthylene		M	2790	mg/kg	0.50								
Dimethylphthalate		M	2790	mg/kg	0.50								
2,6-Dinitrotoluene		N	2790	mg/kg	0.50								
Acenaphthene		M	2790	mg/kg	0.50								
3-Nitroaniline		N	2790	mg/kg	0.50								
Dibenzofuran		M	2790	mg/kg	0.50								
4-Chlorophenylphenylether		M	2790	mg/kg	0.50								
2,4-Dinitrotoluene		N	2790	mg/kg	0.50								
Fluorene		M	2790	mg/kg	0.50								
Diethyl Phthalate		M	2790	mg/kg	0.50								
4-Nitroaniline		N	2790	mg/kg	0.50								
Azobenzene		M	2790	mg/kg	0.50								
4-Bromophenylphenyl Ether		M	2790	mg/kg	0.50								
Hexachlorobenzene		M	2790	mg/kg	0.50								
Phenanthrene		M	2790	mg/kg	0.50								
Anthracene		M	2790	mg/kg	0.50								
Carbazole		M	2790	mg/kg	0.50								
Di-N-Butyl Phthalate		N	2790	mg/kg	0.50								
Fluoranthene		M	2790	mg/kg	0.50								
Pyrene		M	2790	mg/kg	0.50								
Butylbenzyl Phthalate		N	2790	mg/kg	0.50								
Benzo[a]anthracene		M	2790	mg/kg	0.50								
Chrysene		M	2790	mg/kg	0.50								
Bis(2-Ethylhexyl)Phthalate		N	2790	mg/kg	0.50								
Di-N-Octyl Phthalate		N	2790	mg/kg	0.50								
Benzo[b]fluoranthene		M	2790	mg/kg	0.50								
Benzo[k]fluoranthene		M	2790	mg/kg	0.50								
Benzo[a]pyrene		M	2790	mg/kg	0.50								
Indeno(1,2,3-c,d)Pyrene		N	2790	mg/kg	0.50								

Results - Soil

Project: 315531 EAF Meltshop

Client: RSK Geosciences						**Chemtest Job No.:**	24-22474	24-24075	24-24075	24-24075	24-24075	24-24075	24-24075	24-24075
Quotation No.: Q24-35208						**Chemtest Sample ID.:**	1835792	1842400	1842401	1842402	1842403	1842404	1842405	1842406
Order No.: P02150967						Client Sample Ref.:	2	ES1	ES2	ES1	ES2	ES3	ES2	ES3
						Client Sample ID.:								
						Sample Location:	TP390	TP308	TP308	BH304	BH304	BH304	BH315	BH315
						Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
						Top Depth (m):	3.50	0.6	1.0	0.5	1.0	2.5	2.0	3.0
						Bottom Depth (m):								
						Date Sampled:	11-Jul-2024	25-Jul-2024	25-Jul-2024	25-Jul-2024	25-Jul-2024	25-Jul-2024	25-Jul-2024	25-Jul-2024
						Asbestos Lab:	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**									
Dibenz(a,h)Anthracene		N	2790	mg/kg	0.50									
Benzo[g,h,i]perylene		M	2790	mg/kg	0.50									
Naphthalene		M	2800	mg/kg	0.10	< 0.10	0.14	0.26	0.12	< 0.10	< 0.10	0.78	1.4
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.32
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.40
Phenanthrene		M	2800	mg/kg	0.10	< 0.10	0.94	0.56	0.54	< 0.10	< 0.10	1.1	1.2
Anthracene		M	2800	mg/kg	0.10	< 0.10	0.14	0.14	0.27	< 0.10	< 0.10	0.21	0.21
Fluoranthene		M	2800	mg/kg	0.10	< 0.10	0.82	1.2	1.6	< 0.10	< 0.10	1.2	0.76
Pyrene		M	2800	mg/kg	0.10	< 0.10	0.49	1.2	1.5	< 0.10	< 0.10	0.85	0.53
Benzo[a]anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10	1.0	1.8	< 0.10	< 0.10	0.72	0.46
Chrysene		M	2800	mg/kg	0.10	< 0.10	< 0.10	0.98	1.4	< 0.10	< 0.10	0.58	0.50
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	1.3	2.1	< 0.10	< 0.10	1.1	0.55
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	0.87	1.6	< 0.10	< 0.10	0.40	0.24
Benzo[a]pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	1.1	1.6	< 0.10	< 0.10	0.78	0.36
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	1.0	1.8	< 0.10	< 0.10	0.49	0.27
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	0.53	1.3	< 0.10	< 0.10	0.15	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	< 0.10	< 0.10	0.94	1.7	< 0.10	< 0.10	0.41	0.30
Total Of 16 PAH's		N	2800	mg/kg	2.0	< 2.0	2.5	11	17	< 2.0	< 2.0	8.8	7.5

Results - Soil

Project: 315531 EAF Meltshop

Client: RSK Geosciences				**Chemtest Job No.:**		24-24075	24-24075	24-25386	24-25386	24-25386	24-25641	24-25641	24-25641
Quotation No.: Q24-35208				**Chemtest Sample ID.:**		1842407	1842408	1848064	1848065	1848066	1849334	1849335	1849337
Order No.: P02150967				Client Sample Ref.:		ES4	ES5						
				Client Sample ID.:									
				Sample Location:		BH315	BH315	TP302	TP303	TP387	TP391	TP391	TP345
				Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Top Depth (m):		4.0	5.0	0.50	1.50	0.50	0.50	1.50	0.50
				Bottom Depth (m):									
				Date Sampled:		25-Jul-2024	25-Jul-2024						
				Asbestos Lab:		DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**								
ACM Type		U	2192		N/A	-	-	-	-	-	-	-	-
Asbestos Identification		U	2192		N/A	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Asbestos by Gravimetry		U	2192	%	0.001								
Total Asbestos		U	2192	%	0.001								
Moisture		N	2030	%	0.020	19	19	8.1	8.3	8.8	5.9	7.1	3.1
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	None	None	Stones and Roots	Stones	Stones	Stones and Roots	Stones	Stones
Soil Texture		N	2040		N/A	Sand	Sand	Sand	Sand	Sand	Loam	Loam	Loam
pH at 20C		M	2010		4.0								
Arsenic		M	2455	mg/kg	0.5	32	12	9.7	4.0	13	0.9	< 0.5	1.5
Cadmium		M	2455	mg/kg	0.10	< 0.10	0.11	< 0.10	< 0.10	0.11	< 0.10	< 0.10	< 0.10
Chromium		M	2455	mg/kg	0.5	9.2	5.8	4000	5900	800	880	540	2000
Copper		M	2455	mg/kg	0.50	230	22	160	64	55	300	36	160
Mercury		M	2455	mg/kg	0.05	0.05	< 0.05	0.10	0.13	0.26	0.09	0.07	0.75
Nickel		M	2455	mg/kg	0.50	11	6.1	50	20	73	84	16	77
Lead		M	2455	mg/kg	0.50	27	12	22	20	96	60	42	360
Selenium		M	2455	mg/kg	0.25	< 0.25	0.42	0.52	0.50	0.35	< 0.25	< 0.25	< 0.25
Zinc		M	2455	mg/kg	0.50	50	29	77	50	440	1600	260	650
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50	< 0.50	1.0	0.60	< 0.50	2.2	2.2	< 0.50
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	[A] < 0.05	[A] < 0.05	[A] < 0.05	[A] < 0.05	[A] < 0.05	[A] < 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	[A] < 0.05	[A] < 0.05	[A] < 0.05	[A] < 0.05	[A] < 0.05	[A] < 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	[A] < 0.05	[A] < 0.05	[A] < 0.05	[A] < 0.05	[A] < 0.05	[A] < 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10	[A] < 0.10	[A] < 0.10	[A] < 0.10	[A] < 0.10	[A] < 0.10	[A] < 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	[A] < 0.05	[A] < 0.05	[A] < 0.05	[A] < 0.05	[A] < 0.05	[A] < 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	[A] < 0.25	[A] < 0.25	[A] < 0.25	[A] < 0.25	[A] < 0.25	[A] < 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	< 2.0	< 2.0	[A] 6.4	[A] < 2.0	[A] < 2.0	[A] < 2.0	[A] < 2.0	[A] < 2.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	1.1	2.2	[A] 210	[A] < 1.0	[A] < 1.0	[A] 17	[A] 19	[A] 1.0
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	4.9	8.6	[A] 420	[A] < 2.0	[A] 5.3	[A] 120	[A] 110	[A] 44
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	110	150	[A] 490	[A] 25	[A] 79	[A] 1100	[A] 970	[A] 400
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	26	30	[A] 32	[A] < 10	[A] < 10	[A] 130	[A] 170	[A] 63
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	120	160	[A] 1100	[A] 26	[A] 84	[A] 1300	[A] 1100	[A] 450
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	150	190	[A] 1200	[A] 26	[A] 84	[A] 1400	[A] 1300	[A] 510
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	[A] < 0.05	[A] < 0.05	[A] < 0.05	[A] < 0.05	[A] < 0.05	[A] < 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	[A] < 0.05	[A] < 0.05	[A] < 0.05	[A] < 0.05	[A] < 0.05	[A] < 0.05

Results - Soil

Project: 315531 EAF Meltshop

Client: RSK Geosciences				**Chemtest Job No.:**		24-24075	24-24075	24-25386	24-25386	24-25386	24-25641	24-25641	24-25641
Quotation No.: Q24-35208				**Chemtest Sample ID.:**		1842407	1842408	1848064	1848065	1848066	1849334	1849335	1849337
Order No.: P02150967				Client Sample Ref.:		ES4	ES5						
				Client Sample ID.:									
				Sample Location:		BH315	BH315	TP302	TP303	TP387	TP391	TP391	TP345
				Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Top Depth (m):		4.0	5.0	0.50	1.50	0.50	0.50	1.50	0.50
				Bottom Depth (m):									
				Date Sampled:		25-Jul-2024	25-Jul-2024						
				Asbestos Lab:		DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**								
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	[A] < 0.05	[A] < 0.05	[A] < 0.05	[A] < 0.05	[A] < 0.05	[A] < 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25	[A] < 0.25	[A] < 0.25	[A] < 0.25	[A] < 0.25	[A] < 0.25	[A] < 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	[A] 2.4	[A] < 1.0	[A] < 1.0	[A] < 1.0	[A] < 1.0	[A] < 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	2.6	3.9	[A] 35	[A] < 1.0	[A] < 1.0	[A] < 1.0	[A] < 1.0	[A] < 1.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	4.9	6.7	[A] 30	[A] 5.7	[A] 4.3	[A] 4.2	[A] 4.4	[A] 8.4
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	2.5	6.4	[A] 4.2	[A] < 2.0	[A] < 2.0	[A] 3.0	[A] 4.8	[A] 2.5
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	1.7	< 1.0	[A] < 1.0	[A] < 1.0	[A] < 1.0	[A] 6.0	[A] 9.7	[A] 1.6
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	10	17	[A] 71	[A] 6.5	[A] 5.0	[A] 7.2	[A] 9.6	[A] 11
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	12	17	[A] 71	[A] < 10	[A] < 10	[A] 13	[A] 19	[A] 13
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50	[A] < 0.50	[A] < 0.50	[A] < 0.50	[A] < 0.50	[A] < 0.50	[A] < 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	130	180	[A] 1200	[A] 33	[A] 89	[A] 1300	[A] 1100	[A] 460
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	160	210	[A] 1200	[A] 33	[A] 89	[A] 1400	[A] 1300	[A] 520
Naphthalene		M	2700	mg/kg	0.10								
Acenaphthylene		M	2700	mg/kg	0.10								
Acenaphthene		M	2700	mg/kg	0.10								
Fluorene		M	2700	mg/kg	0.10								
Phenanthrene		M	2700	mg/kg	0.10								
Anthracene		M	2700	mg/kg	0.10								
Fluoranthene		M	2700	mg/kg	0.10								
Pyrene		M	2700	mg/kg	0.10								
Benzo[a]anthracene		M	2700	mg/kg	0.10								
Chrysene		M	2700	mg/kg	0.10								
Benzo[b]fluoranthene		M	2700	mg/kg	0.10								
Benzo[k]fluoranthene		M	2700	mg/kg	0.10								
Benzo[a]pyrene		M	2700	mg/kg	0.10								
Indeno(1,2,3-c,d)Pyrene		M	2700	mg/kg	0.10								
Dibenz(a,h)Anthracene		M	2700	mg/kg	0.10								
Benzo[g,h,i]perylene		M	2700	mg/kg	0.10								
Total Of 16 PAH's		M	2700	mg/kg	2.0								
Dichlorodifluoromethane		U	2760	µg/kg	1.0								
Chloromethane		M	2760	µg/kg	1.0								
Vinyl Chloride		M	2760	µg/kg	1.0								
Bromomethane		M	2760	µg/kg	20								
Chloroethane		U	2760	µg/kg	2.0								
Trichlorofluoromethane		M	2760	µg/kg	1.0								
1,1-Dichloroethene		M	2760	µg/kg	1.0								

Results - Soil

Project: 315531 EAF Meltshop

Client: RSK Geosciences				**Chemtest Job No.:**		24-24075	24-24075	24-25386	24-25386	24-25386	24-25641	24-25641	24-25641
Quotation No.: Q24-35208				**Chemtest Sample ID.:**		1842407	1842408	1848064	1848065	1848066	1849334	1849335	1849337
Order No.: P02150967				Client Sample Ref.:		ES4	ES5						
				Client Sample ID.:									
				Sample Location:		BH315	BH315	TP302	TP303	TP387	TP391	TP391	TP345
				Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Top Depth (m):		4.0	5.0	0.50	1.50	0.50	0.50	1.50	0.50
				Bottom Depth (m):									
				Date Sampled:		25-Jul-2024	25-Jul-2024						
				Asbestos Lab:		DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**								
Dichloromethane		N	2760	µg/kg	50								
Trans 1,2-Dichloroethene		M	2760	µg/kg	1.0								
1,1-Dichloroethane		M	2760	µg/kg	1.0								
cis 1,2-Dichloroethene		M	2760	µg/kg	1.0								
Bromochloromethane		U	2760	µg/kg	5.0								
Trichloromethane		M	2760	µg/kg	1.0								
1,1,1-Trichloroethane		M	2760	µg/kg	1.0								
Tetrachloromethane		M	2760	µg/kg	1.0								
1,1-Dichloropropene		U	2760	µg/kg	1.0								
Benzene		M	2760	µg/kg	1.0								
1,2-Dichloroethane		M	2760	µg/kg	2.0								
Trichloroethene		N	2760	µg/kg	1.0								
1,2-Dichloropropane		M	2760	µg/kg	1.0								
Dibromomethane		M	2760	µg/kg	1.0								
Bromodichloromethane		M	2760	µg/kg	5.0								
cis-1,3-Dichloropropene		N	2760	µg/kg	10								
Toluene		M	2760	µg/kg	1.0								
Trans-1,3-Dichloropropene		N	2760	µg/kg	10								
1,1,2-Trichloroethane		M	2760	µg/kg	10								
Tetrachloroethene		M	2760	µg/kg	1.0								
1,3-Dichloropropane		U	2760	µg/kg	2.0								
Dibromochloromethane		U	2760	µg/kg	10								
1,2-Dibromoethane		M	2760	µg/kg	5.0								
Chlorobenzene		M	2760	µg/kg	1.0								
1,1,1,2-Tetrachloroethane		M	2760	µg/kg	2.0								
Ethylbenzene		M	2760	µg/kg	1.0								
m & p-Xylene		M	2760	µg/kg	1.0								
o-Xylene		M	2760	µg/kg	1.0								
Styrene		M	2760	µg/kg	1.0								
Tribromomethane		U	2760	µg/kg	1.0								
Isopropylbenzene		M	2760	µg/kg	1.0								
Bromobenzene		M	2760	µg/kg	1.0								
1,2,3-Trichloropropane		N	2760	µg/kg	50								
N-Propylbenzene		U	2760	µg/kg	1.0								
2-Chlorotoluene		M	2760	µg/kg	1.0								
1,3,5-Trimethylbenzene		M	2760	µg/kg	1.0								

Results - Soil

Project: 315531 EAF Meltshop

Client: RSK Geosciences				**Chemtest Job No.:**		24-24075	24-24075	24-25386	24-25386	24-25386	24-25641	24-25641	24-25641
Quotation No.: Q24-35208				**Chemtest Sample ID.:**		1842407	1842408	1848064	1848065	1848066	1849334	1849335	1849337
Order No.: P02150967				Client Sample Ref.:		ES4	ES5						
				Client Sample ID.:									
				Sample Location:		BH315	BH315	TP302	TP303	TP387	TP391	TP391	TP345
				Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Top Depth (m):		4.0	5.0	0.50	1.50	0.50	0.50	1.50	0.50
				Bottom Depth (m):									
				Date Sampled:		25-Jul-2024	25-Jul-2024						
				Asbestos Lab:		DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**								
4-Chlorotoluene		U	2760	µg/kg	1.0								
Tert-Butylbenzene		U	2760	µg/kg	1.0								
1,2,4-Trimethylbenzene		M	2760	µg/kg	1.0								
Sec-Butylbenzene		U	2760	µg/kg	1.0								
1,3-Dichlorobenzene		M	2760	µg/kg	1.0								
4-Isopropyltoluene		U	2760	µg/kg	1.0								
1,4-Dichlorobenzene		M	2760	µg/kg	1.0								
N-Butylbenzene		U	2760	µg/kg	1.0								
1,2-Dichlorobenzene		M	2760	µg/kg	1.0								
1,2-Dibromo-3-Chloropropane		U	2760	µg/kg	50								
1,2,4-Trichlorobenzene		M	2760	µg/kg	1.0								
Hexachlorobutadiene		N	2760	µg/kg	1.0								
1,2,3-Trichlorobenzene		U	2760	µg/kg	2.0								
Methyl Tert-Butyl Ether		M	2760	µg/kg	1.0								
N-Nitrosodimethylamine		M	2790	mg/kg	0.50								
Phenol		M	2790	mg/kg	0.50								
2-Chlorophenol		N	2790	mg/kg	0.50								
Bis-(2-Chloroethyl)Ether		M	2790	mg/kg	0.50								
1,3-Dichlorobenzene		M	2790	mg/kg	0.50								
1,4-Dichlorobenzene		N	2790	mg/kg	0.50								
1,2-Dichlorobenzene		M	2790	mg/kg	0.50								
2-Methylphenol		M	2790	mg/kg	0.50								
Bis(2-Chloroisopropyl)Ether		M	2790	mg/kg	0.50								
Hexachloroethane		N	2790	mg/kg	0.50								
N-Nitrosodi-n-propylamine		M	2790	mg/kg	0.50								
4-Methylphenol		M	2790	mg/kg	0.50								
Nitrobenzene		N	2790	mg/kg	0.50								
Isophorone		M	2790	mg/kg	0.50								
2-Nitrophenol		N	2790	mg/kg	0.50								
2,4-Dimethylphenol		N	2790	mg/kg	0.50								
Bis(2-Chloroethoxy)Methane		M	2790	mg/kg	0.50								
2,4-Dichlorophenol		N	2790	mg/kg	0.50								
1,2,4-Trichlorobenzene		M	2790	mg/kg	0.50								
Naphthalene		M	2790	mg/kg	0.50								
4-Chloroaniline		N	2790	mg/kg	0.50								
Hexachlorobutadiene		M	2790	mg/kg	0.50								

Results - Soil

Project: 315531 EAF Meltshop

Client: RSK Geosciences				**Chemtest Job No.:**		24-24075	24-24075	24-25386	24-25386	24-25386	24-25641	24-25641	24-25641
Quotation No.: Q24-35208				**Chemtest Sample ID.:**		1842407	1842408	1848064	1848065	1848066	1849334	1849335	1849337
Order No.: P02150967				Client Sample Ref.:		ES4	ES5						
				Client Sample ID.:									
				Sample Location:		BH315	BH315	TP302	TP303	TP387	TP391	TP391	TP345
				Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Top Depth (m):		4.0	5.0	0.50	1.50	0.50	0.50	1.50	0.50
				Bottom Depth (m):									
				Date Sampled:		25-Jul-2024	25-Jul-2024						
				Asbestos Lab:		DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**								
4-Chloro-3-Methylphenol		N	2790	mg/kg	0.50								
2-Methylnaphthalene		M	2790	mg/kg	0.50								
4-Nitrophenol		N	2790	mg/kg	0.50								
2,4,6-Trichlorophenol		N	2790	mg/kg	0.50								
2,4,5-Trichlorophenol		N	2790	mg/kg	0.50								
2-Chloronaphthalene		M	2790	mg/kg	0.50								
2-Nitroaniline		N	2790	mg/kg	0.50								
Acenaphthylene		M	2790	mg/kg	0.50								
Dimethylphthalate		M	2790	mg/kg	0.50								
2,6-Dinitrotoluene		N	2790	mg/kg	0.50								
Acenaphthene		M	2790	mg/kg	0.50								
3-Nitroaniline		N	2790	mg/kg	0.50								
Dibenzofuran		M	2790	mg/kg	0.50								
4-Chlorophenylphenylether		M	2790	mg/kg	0.50								
2,4-Dinitrotoluene		N	2790	mg/kg	0.50								
Fluorene		M	2790	mg/kg	0.50								
Diethyl Phthalate		M	2790	mg/kg	0.50								
4-Nitroaniline		N	2790	mg/kg	0.50								
Azobenzene		M	2790	mg/kg	0.50								
4-Bromophenylphenyl Ether		M	2790	mg/kg	0.50								
Hexachlorobenzene		M	2790	mg/kg	0.50								
Phenanthrene		M	2790	mg/kg	0.50								
Anthracene		M	2790	mg/kg	0.50								
Carbazole		M	2790	mg/kg	0.50								
Di-N-Butyl Phthalate		N	2790	mg/kg	0.50								
Fluoranthene		M	2790	mg/kg	0.50								
Pyrene		M	2790	mg/kg	0.50								
Butylbenzyl Phthalate		N	2790	mg/kg	0.50								
Benzo[a]anthracene		M	2790	mg/kg	0.50								
Chrysene		M	2790	mg/kg	0.50								
Bis(2-Ethylhexyl)Phthalate		N	2790	mg/kg	0.50								
Di-N-Octyl Phthalate		N	2790	mg/kg	0.50								
Benzo[b]fluoranthene		M	2790	mg/kg	0.50								
Benzo[k]fluoranthene		M	2790	mg/kg	0.50								
Benzo[a]pyrene		M	2790	mg/kg	0.50								
Indeno(1,2,3-c,d)Pyrene		N	2790	mg/kg	0.50								

Results - Soil

Project: 315531 EAF Meltshop

Client: RSK Geosciences				**Chemtest Job No.:**		24-24075	24-24075	24-25386	24-25386	24-25386	24-25641	24-25641	24-25641
Quotation No.: Q24-35208				**Chemtest Sample ID.:**		1842407	1842408	1848064	1848065	1848066	1849334	1849335	1849337
Order No.: P02150967				Client Sample Ref.:		ES4	ES5						
				Client Sample ID.:									
				Sample Location:		BH315	BH315	TP302	TP303	TP387	TP391	TP391	TP345
				Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Top Depth (m):		4.0	5.0	0.50	1.50	0.50	0.50	1.50	0.50
				Bottom Depth (m):									
				Date Sampled:		25-Jul-2024	25-Jul-2024						
				Asbestos Lab:		DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**								
Dibenz(a,h)Anthracene		N	2790	mg/kg	0.50								
Benzo[g,h,i]perylene		M	2790	mg/kg	0.50								
Naphthalene		M	2800	mg/kg	0.10	0.73	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.49
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.44
Phenanthrene		M	2800	mg/kg	0.10	0.45	< 0.10	< 0.10	< 0.10	0.48	0.93	0.76	2.5
Anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.19	0.16	0.36
Fluoranthene		M	2800	mg/kg	0.10	0.38	0.22	< 0.10	< 0.10	0.41	1.1	1.8	1.7
Pyrene		M	2800	mg/kg	0.10	0.26	0.20	< 0.10	< 0.10	0.30	0.93	1.7	1.3
Benzo[a]anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	1.0	< 0.10
Chrysene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	1.7	< 0.10
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	2.6	< 0.10
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.95	< 0.10
Benzo[a]pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	1.4	< 0.10
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	1.3	< 0.10
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	1.6	< 0.10
Total Of 16 PAH's		N	2800	mg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	3.2	15	6.8

Results - Soil

Project: 315531 EAF Meltshop

Client: RSK Geosciences						**Chemtest Job No.:**	24-25641	24-25641	24-25641	24-25641	24-25899	24-25899	24-25899	24-25899
Quotation No.: Q24-35208						**Chemtest Sample ID.:**	1849340	1849341	1849343	1849345	1850277	1850280	1850285	1850287
Order No.: P02150967						Client Sample Ref.:								
						Client Sample ID.:								
						Sample Location:	TP392	TP392	TP393	TP393	TP309	TP311	TP325	TP342
						Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
						Top Depth (m):	0.50	2.00	0.50	3.00	0.4	0.5	2.0	0.5
						Bottom Depth (m):								
						Date Sampled:								
						Asbestos Lab:	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**									
ACM Type		U	2192		N/A		-	-	-	-	-	-	-	-
Asbestos Identification		U	2192		N/A		No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Asbestos by Gravimetry		U	2192	%	0.001									
Total Asbestos		U	2192	%	0.001									
Moisture		N	2030	%	0.020		5.8	14	16	22	6.1	4.0	7.2	11
Soil Colour		N	2040		N/A		Brown	Brown	Brown	Brown	Black	Black	Black	Black
Other Material		N	2040		N/A		Stones	Stones	Stones and Roots	Stones	Stones	Stones	Stones	Stones
Soil Texture		N	2040		N/A		Loam	Clay	Clay	Clay	Sand	Sand	Sand	Sand
pH at 20C		M	2010		4.0									
Arsenic		M	2455	mg/kg	0.5		28	6.7	4.9	1.7	3.4	3.0	5.4	5.4
Cadmium		M	2455	mg/kg	0.10		4.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chromium		M	2455	mg/kg	0.5		2100	100	76	25	1300	530	1100	1100
Copper		M	2455	mg/kg	0.50		160	22	11	4.5	43	200	28	34
Mercury		M	2455	mg/kg	0.05		0.31	0.06	< 0.05	< 0.05	0.09	0.11	0.05	0.05
Nickel		M	2455	mg/kg	0.50		95	17	21	9.1	38	58	43	36
Lead		M	2455	mg/kg	0.50		690	50	16	10	26	280	25	29
Selenium		M	2455	mg/kg	0.25		< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Zinc		M	2455	mg/kg	0.50		1600	150	77	38	260	1200	160	280
Chromium (Hexavalent)		N	2490	mg/kg	0.50		1.0	< 0.50	< 0.50	< 0.50	0.58	0.64	< 0.50	2.6
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05		[A] < 0.05	[A] < 0.05	[A] < 0.05	[A] < 0.05	[A] < 0.05	[A] < 0.05	[A] < 0.05	[A] < 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05		[A] < 0.05	[A] < 0.05	[A] < 0.05	[A] < 0.05	[A] < 0.05	[A] < 0.05	[A] < 0.05	[A] < 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05		[A] < 0.05	[A] < 0.05	[A] < 0.05	[A] < 0.05	[A] < 0.05	[A] < 0.05	[A] < 0.05	[A] < 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10		[A] < 0.10	[A] < 0.10	[A] < 0.10	[A] < 0.10	[A] < 0.10	[A] < 0.10	[A] < 0.10	[A] < 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05		[A] < 0.05	[A] < 0.05	[A] < 0.05	[A] < 0.05	[A] < 0.05	[A] < 0.05	[A] < 0.05	[A] < 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25		[A] < 0.25	[A] < 0.25	[A] < 0.25	[A] < 0.25	[A] < 0.25	[A] < 0.25	[A] < 0.25	[A] < 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00		[A] < 2.0	[A] < 2.0	[A] < 2.0	[A] < 2.0	[A] < 2.0	[A] < 2.0	[A] < 2.0	[A] 3.4
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00		[A] < 1.0	[A] < 1.0	[A] < 1.0	[A] < 1.0	[A] < 1.0	[A] < 1.0	[A] < 1.0	[A] 12
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00		[A] 27	[A] < 2.0	[A] 2.7	[A] 3.7	[A] 3.2	[A] < 2.0	[A] 4.0	[A] 89
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00		[A] 340	[A] < 3.0	[A] 5.3	[A] 9.3	[A] 300	[A] 26	[A] 140	[A] 770
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00		[A] 50	[A] < 10	[A] < 10	[A] < 10	[A] 56	[A] < 10	[A] 58	[A] 120
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00		[A] 370	[A] < 5.0	[A] 8.0	[A] 13	[A] 310	[A] 27	[A] 150	[A] 880
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00		[A] 420	[A] < 10	[A] < 10	[A] 13	[A] 360	[A] 27	[A] 200	[A] 990
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05		[A] < 0.05	[A] < 0.05	[A] < 0.05	[A] < 0.05	[A] < 0.05	[A] < 0.05	[A] < 0.05	[A] < 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05		[A] < 0.05	[A] < 0.05	[A] < 0.05	[A] < 0.05	[A] < 0.05	[A] < 0.05	[A] < 0.05	[A] < 0.05

Results - Soil

Project: 315531 EAF Meltshop

Client: RSK Geosciences				**Chemtest Job No.:**		24-25641	24-25641	24-25641	24-25641	24-25899	24-25899	24-25899	24-25899
Quotation No.: Q24-35208				**Chemtest Sample ID.:**		1849340	1849341	1849343	1849345	1850277	1850280	1850285	1850287
Order No.: P02150967				Client Sample Ref.:									
				Client Sample ID.:									
				Sample Location:		TP392	TP392	TP393	TP393	TP309	TP311	TP325	TP342
				Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Top Depth (m):		0.50	2.00	0.50	3.00	0.4	0.5	2.0	0.5
				Bottom Depth (m):									
				Date Sampled:									
				Asbestos Lab:		DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**								
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	[A] < 0.05	[A] < 0.05	[A] < 0.05	[A] < 0.05	[A] < 0.05	[A] < 0.05	[A] < 0.05	[A] < 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	[A] < 0.25	[A] < 0.25	[A] < 0.25	[A] < 0.25	[A] < 0.25	[A] < 0.25	[A] < 0.25	[A] < 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	[A] < 1.0	[A] < 1.0	[A] < 1.0	[A] < 1.0	[A] < 1.0	[A] < 1.0	[A] < 1.0	[A] < 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	[A] < 1.0	[A] < 1.0	[A] < 1.0	[A] < 1.0	[A] < 1.0	[A] < 1.0	[A] < 1.0	[A] < 1.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	[A] 3.4	[A] 4.2	[A] 6.3	[A] 5.1	[A] 3.3	[A] 3.6	[A] 3.8	[A] 5.1
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	[A] < 2.0	[A] < 2.0	[A] 9.8	[A] 10	[A] < 2.0	[A] < 2.0	[A] < 2.0	[A] < 2.0
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	[A] 1.2	[A] < 1.0	[A] 5.8	[A] 6.3	[A] 1.5	[A] < 1.0	[A] 1.1	[A] 4.7
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	[A] < 5.0	[A] < 5.0	[A] 16	[A] 15	[A] < 5.0	[A] < 5.0	[A] < 5.0	[A] 5.1
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	[A] < 10	[A] < 10	[A] 22	[A] 21	[A] < 10	[A] < 10	[A] < 10	[A] < 10
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	[A] < 0.50	[A] < 0.50	[A] < 0.50	[A] < 0.50	[A] < 0.50	[A] < 0.50	[A] < 0.50	[A] < 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	[A] 370	[A] < 10	[A] 24	[A] 28	[A] 310	[A] 31	[A] 150	[A] 880
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	[A] 430	[A] < 10	[A] 30	[A] 34	[A] 370	[A] 31	[A] 210	[A] 1000
Naphthalene		M	2700	mg/kg	0.10								
Acenaphthylene		M	2700	mg/kg	0.10								
Acenaphthene		M	2700	mg/kg	0.10								
Fluorene		M	2700	mg/kg	0.10								
Phenanthrene		M	2700	mg/kg	0.10								
Anthracene		M	2700	mg/kg	0.10								
Fluoranthene		M	2700	mg/kg	0.10								
Pyrene		M	2700	mg/kg	0.10								
Benzo[a]anthracene		M	2700	mg/kg	0.10								
Chrysene		M	2700	mg/kg	0.10								
Benzo[b]fluoranthene		M	2700	mg/kg	0.10								
Benzo[k]fluoranthene		M	2700	mg/kg	0.10								
Benzo[a]pyrene		M	2700	mg/kg	0.10								
Indeno(1,2,3-c,d)Pyrene		M	2700	mg/kg	0.10								
Dibenz(a,h)Anthracene		M	2700	mg/kg	0.10								
Benzo[g,h,i]perylene		M	2700	mg/kg	0.10								
Total Of 16 PAH's		M	2700	mg/kg	2.0								
Dichlorodifluoromethane		U	2760	µg/kg	1.0					[A] < 1.0	[A] < 1.0		
Chloromethane		M	2760	µg/kg	1.0					[A] < 1.0	[A] < 1.0		
Vinyl Chloride		M	2760	µg/kg	1.0					[A] < 1.0	[A] < 1.0		
Bromomethane		M	2760	µg/kg	20					[A] < 20	[A] < 20		
Chloroethane		U	2760	µg/kg	2.0					[A] < 2.0	[A] < 2.0		
Trichlorofluoromethane		M	2760	µg/kg	1.0					[A] < 1.0	[A] < 1.0		
1,1-Dichloroethene		M	2760	µg/kg	1.0					[A] < 1.0	[A] < 1.0		

Results - Soil

Project: 315531 EAF Meltshop

Client: RSK Geosciences				**Chemtest Job No.:**		24-25641	24-25641	24-25641	24-25641	24-25899	24-25899	24-25899	24-25899
Quotation No.: Q24-35208				**Chemtest Sample ID.:**		1849340	1849341	1849343	1849345	1850277	1850280	1850285	1850287
Order No.: P02150967				Client Sample Ref.:									
				Client Sample ID.:									
				Sample Location:		TP392	TP392	TP393	TP393	TP309	TP311	TP325	TP342
				Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Top Depth (m):		0.50	2.00	0.50	3.00	0.4	0.5	2.0	0.5
				Bottom Depth (m):									
				Date Sampled:									
				Asbestos Lab:		DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**								
Dichloromethane		N	2760	µg/kg	50					[A] < 50	[A] < 50		
Trans 1,2-Dichloroethene		M	2760	µg/kg	1.0					[A] < 1.0	[A] < 1.0		
1,1-Dichloroethane		M	2760	µg/kg	1.0					[A] < 1.0	[A] < 1.0		
cis 1,2-Dichloroethene		M	2760	µg/kg	1.0					[A] < 1.0	[A] < 1.0		
Bromochloromethane		U	2760	µg/kg	5.0					[A] < 5.0	[A] < 5.0		
Trichloromethane		M	2760	µg/kg	1.0					[A] < 1.0	[A] < 1.0		
1,1,1-Trichloroethane		M	2760	µg/kg	1.0					[A] < 1.0	[A] < 1.0		
Tetrachloromethane		M	2760	µg/kg	1.0					[A] < 1.0	[A] < 1.0		
1,1-Dichloropropene		U	2760	µg/kg	1.0					[A] < 1.0	[A] < 1.0		
Benzene		M	2760	µg/kg	1.0					[A] < 1.0	[A] < 1.0		
1,2-Dichloroethane		M	2760	µg/kg	2.0					[A] < 2.0	[A] < 2.0		
Trichloroethene		N	2760	µg/kg	1.0					[A] < 1.0	[A] < 1.0		
1,2-Dichloropropane		M	2760	µg/kg	1.0					[A] < 1.0	[A] < 1.0		
Dibromomethane		M	2760	µg/kg	1.0					[A] < 1.0	[A] < 1.0		
Bromodichloromethane		M	2760	µg/kg	5.0					[A] < 5.0	[A] < 5.0		
cis-1,3-Dichloropropene		N	2760	µg/kg	10					[A] < 10	[A] < 10		
Toluene		M	2760	µg/kg	1.0					[A] < 1.0	[A] < 1.0		
Trans-1,3-Dichloropropene		N	2760	µg/kg	10					[A] < 10	[A] < 10		
1,1,2-Trichloroethane		M	2760	µg/kg	10					[A] < 10	[A] < 10		
Tetrachloroethene		M	2760	µg/kg	1.0					[A] < 1.0	[A] < 1.0		
1,3-Dichloropropane		U	2760	µg/kg	2.0					[A] < 2.0	[A] < 2.0		
Dibromochloromethane		U	2760	µg/kg	10					[A] < 10	[A] < 10		
1,2-Dibromoethane		M	2760	µg/kg	5.0					[A] < 5.0	[A] < 5.0		
Chlorobenzene		M	2760	µg/kg	1.0					[A] < 1.0	[A] < 1.0		
1,1,1,2-Tetrachloroethane		M	2760	µg/kg	2.0					[A] < 2.0	[A] < 2.0		
Ethylbenzene		M	2760	µg/kg	1.0					[A] < 1.0	[A] < 1.0		
m & p-Xylene		M	2760	µg/kg	1.0					[A] < 1.0	[A] < 1.0		
o-Xylene		M	2760	µg/kg	1.0					[A] < 1.0	[A] < 1.0		
Styrene		M	2760	µg/kg	1.0					[A] < 1.0	[A] < 1.0		
Tribromomethane		U	2760	µg/kg	1.0					[A] < 1.0	[A] < 1.0		
Isopropylbenzene		M	2760	µg/kg	1.0					[A] < 1.0	[A] < 1.0		
Bromobenzene		M	2760	µg/kg	1.0					[A] < 1.0	[A] < 1.0		
1,2,3-Trichloropropane		N	2760	µg/kg	50					[A] < 50	[A] < 50		
N-Propylbenzene		U	2760	µg/kg	1.0					[A] < 1.0	[A] < 1.0		
2-Chlorotoluene		M	2760	µg/kg	1.0					[A] < 1.0	[A] < 1.0		
1,3,5-Trimethylbenzene		M	2760	µg/kg	1.0					[A] < 1.0	[A] < 1.0		

Results - Soil

Project: 315531 EAF Meltshop

Client: RSK Geosciences				**Chemtest Job No.:**		24-25641	24-25641	24-25641	24-25641	24-25899	24-25899	24-25899	24-25899
Quotation No.: Q24-35208				**Chemtest Sample ID.:**		1849340	1849341	1849343	1849345	1850277	1850280	1850285	1850287
Order No.: P02150967				Client Sample Ref.:									
				Client Sample ID.:									
				Sample Location:		TP392	TP392	TP393	TP393	TP309	TP311	TP325	TP342
				Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Top Depth (m):		0.50	2.00	0.50	3.00	0.4	0.5	2.0	0.5
				Bottom Depth (m):									
				Date Sampled:									
				Asbestos Lab:		DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**								
4-Chlorotoluene		U	2760	µg/kg	1.0					[A] < 1.0	[A] < 1.0		
Tert-Butylbenzene		U	2760	µg/kg	1.0					[A] < 1.0	[A] < 1.0		
1,2,4-Trimethylbenzene		M	2760	µg/kg	1.0					[A] < 1.0	[A] < 1.0		
Sec-Butylbenzene		U	2760	µg/kg	1.0					[A] < 1.0	[A] < 1.0		
1,3-Dichlorobenzene		M	2760	µg/kg	1.0					[A] < 1.0	[A] < 1.0		
4-Isopropyltoluene		U	2760	µg/kg	1.0					[A] < 1.0	[A] < 1.0		
1,4-Dichlorobenzene		M	2760	µg/kg	1.0					[A] < 1.0	[A] < 1.0		
N-Butylbenzene		U	2760	µg/kg	1.0					[A] < 1.0	[A] < 1.0		
1,2-Dichlorobenzene		M	2760	µg/kg	1.0					[A] < 1.0	[A] < 1.0		
1,2-Dibromo-3-Chloropropane		U	2760	µg/kg	50					[A] < 50	[A] < 50		
1,2,4-Trichlorobenzene		M	2760	µg/kg	1.0					[A] < 1.0	[A] < 1.0		
Hexachlorobutadiene		N	2760	µg/kg	1.0					[A] < 1.0	[A] < 1.0		
1,2,3-Trichlorobenzene		U	2760	µg/kg	2.0					[A] < 2.0	[A] < 2.0		
Methyl Tert-Butyl Ether		M	2760	µg/kg	1.0					[A] < 1.0	[A] < 1.0		
N-Nitrosodimethylamine		M	2790	mg/kg	0.50					[A] < 0.50	[A] < 0.50		
Phenol		M	2790	mg/kg	0.50					[A] < 0.50	[A] < 0.50		
2-Chlorophenol		N	2790	mg/kg	0.50					[A] < 0.50	[A] < 0.50		
Bis-(2-Chloroethyl)Ether		M	2790	mg/kg	0.50					[A] < 0.50	[A] < 0.50		
1,3-Dichlorobenzene		M	2790	mg/kg	0.50					[A] < 0.50	[A] < 0.50		
1,4-Dichlorobenzene		N	2790	mg/kg	0.50					[A] < 0.50	[A] < 0.50		
1,2-Dichlorobenzene		M	2790	mg/kg	0.50					[A] < 0.50	[A] < 0.50		
2-Methylphenol		M	2790	mg/kg	0.50					[A] < 0.50	[A] < 0.50		
Bis(2-Chloroisopropyl)Ether		M	2790	mg/kg	0.50					[A] < 0.50	[A] < 0.50		
Hexachloroethane		N	2790	mg/kg	0.50					[A] < 0.50	[A] < 0.50		
N-Nitrosodi-n-propylamine		M	2790	mg/kg	0.50					[A] < 0.50	[A] < 0.50		
4-Methylphenol		M	2790	mg/kg	0.50					[A] < 0.50	[A] < 0.50		
Nitrobenzene		N	2790	mg/kg	0.50					[A] < 0.50	[A] < 0.50		
Isophorone		M	2790	mg/kg	0.50					[A] < 0.50	[A] < 0.50		
2-Nitrophenol		N	2790	mg/kg	0.50					[A] < 0.50	[A] < 0.50		
2,4-Dimethylphenol		N	2790	mg/kg	0.50					[A] < 0.50	[A] < 0.50		
Bis(2-Chloroethoxy)Methane		M	2790	mg/kg	0.50					[A] < 0.50	[A] < 0.50		
2,4-Dichlorophenol		N	2790	mg/kg	0.50					[A] < 0.50	[A] < 0.50		
1,2,4-Trichlorobenzene		M	2790	mg/kg	0.50					[A] < 0.50	[A] < 0.50		
Naphthalene		M	2790	mg/kg	0.50					[A] < 0.50	[A] < 0.50		
4-Chloroaniline		N	2790	mg/kg	0.50					[A] < 0.50	[A] < 0.50		
Hexachlorobutadiene		M	2790	mg/kg	0.50					[A] < 0.50	[A] < 0.50		

Results - Soil

Project: 315531 EAF Meltshop

Client: RSK Geosciences				**Chemtest Job No.:**		24-25641	24-25641	24-25641	24-25641	24-25899	24-25899	24-25899	24-25899
Quotation No.: Q24-35208				**Chemtest Sample ID.:**		1849340	1849341	1849343	1849345	1850277	1850280	1850285	1850287
Order No.: P02150967				Client Sample Ref.:									
				Client Sample ID.:									
				Sample Location:		TP392	TP392	TP393	TP393	TP309	TP311	TP325	TP342
				Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Top Depth (m):		0.50	2.00	0.50	3.00	0.4	0.5	2.0	0.5
				Bottom Depth (m):									
				Date Sampled:									
				Asbestos Lab:		DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**								
4-Chloro-3-Methylphenol		N	2790	mg/kg	0.50					[A] < 0.50	[A] < 0.50		
2-Methylnaphthalene		M	2790	mg/kg	0.50					[A] < 0.50	[A] < 0.50		
4-Nitrophenol		N	2790	mg/kg	0.50					[A] < 0.50	[A] < 0.50		
2,4,6-Trichlorophenol		N	2790	mg/kg	0.50					[A] < 0.50	[A] < 0.50		
2,4,5-Trichlorophenol		N	2790	mg/kg	0.50					[A] < 0.50	[A] < 0.50		
2-Chloronaphthalene		M	2790	mg/kg	0.50					[A] < 0.50	[A] < 0.50		
2-Nitroaniline		N	2790	mg/kg	0.50					[A] < 0.50	[A] < 0.50		
Acenaphthylene		M	2790	mg/kg	0.50					[A] < 0.50	[A] < 0.50		
Dimethylphthalate		M	2790	mg/kg	0.50					[A] < 0.50	[A] < 0.50		
2,6-Dinitrotoluene		N	2790	mg/kg	0.50					[A] < 0.50	[A] < 0.50		
Acenaphthene		M	2790	mg/kg	0.50					[A] < 0.50	[A] < 0.50		
3-Nitroaniline		N	2790	mg/kg	0.50					[A] < 0.50	[A] < 0.50		
Dibenzofuran		M	2790	mg/kg	0.50					[A] < 0.50	[A] < 0.50		
4-Chlorophenylphenylether		M	2790	mg/kg	0.50					[A] < 0.50	[A] < 0.50		
2,4-Dinitrotoluene		N	2790	mg/kg	0.50					[A] < 0.50	[A] < 0.50		
Fluorene		M	2790	mg/kg	0.50					[A] < 0.50	[A] < 0.50		
Diethyl Phthalate		M	2790	mg/kg	0.50					[A] < 0.50	[A] < 0.50		
4-Nitroaniline		N	2790	mg/kg	0.50					[A] < 0.50	[A] < 0.50		
Azobenzene		M	2790	mg/kg	0.50					[A] < 0.50	[A] < 0.50		
4-Bromophenylphenyl Ether		M	2790	mg/kg	0.50					[A] < 0.50	[A] < 0.50		
Hexachlorobenzene		M	2790	mg/kg	0.50					[A] < 0.50	[A] < 0.50		
Phenanthrene		M	2790	mg/kg	0.50					[A] < 0.50	[A] < 0.50		
Anthracene		M	2790	mg/kg	0.50					[A] < 0.50	[A] < 0.50		
Carbazole		M	2790	mg/kg	0.50					[A] < 0.50	[A] < 0.50		
Di-N-Butyl Phthalate		N	2790	mg/kg	0.50					[A] < 0.50	[A] < 0.50		
Fluoranthene		M	2790	mg/kg	0.50					[A] < 0.50	[A] < 0.50		
Pyrene		M	2790	mg/kg	0.50					[A] < 0.50	[A] < 0.50		
Butylbenzyl Phthalate		N	2790	mg/kg	0.50					[A] < 0.50	[A] < 0.50		
Benzo[a]anthracene		M	2790	mg/kg	0.50					[A] < 0.50	[A] < 0.50		
Chrysene		M	2790	mg/kg	0.50					[A] < 0.50	[A] < 0.50		
Bis(2-Ethylhexyl)Phthalate		N	2790	mg/kg	0.50					[A] < 0.50	[A] < 0.50		
Di-N-Octyl Phthalate		N	2790	mg/kg	0.50					[A] < 0.50	[A] < 0.50		
Benzo[b]fluoranthene		M	2790	mg/kg	0.50					[A] < 0.50	[A] < 0.50		
Benzo[k]fluoranthene		M	2790	mg/kg	0.50					[A] < 0.50	[A] < 0.50		
Benzo[a]pyrene		M	2790	mg/kg	0.50					[A] < 0.50	[A] < 0.50		
Indeno(1,2,3-c,d)Pyrene		N	2790	mg/kg	0.50					[A] < 0.50	[A] < 0.50		

Results - Soil

Project: 315531 EAF Meltshop

Client: RSK Geosciences				**Chemtest Job No.:**		24-25641	24-25641	24-25641	24-25641	24-25899	24-25899	24-25899	24-25899
Quotation No.: Q24-35208				**Chemtest Sample ID.:**		1849340	1849341	1849343	1849345	1850277	1850280	1850285	1850287
Order No.: P02150967				Client Sample Ref.:									
				Client Sample ID.:									
				Sample Location:		TP392	TP392	TP393	TP393	TP309	TP311	TP325	TP342
				Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Top Depth (m):		0.50	2.00	0.50	3.00	0.4	0.5	2.0	0.5
				Bottom Depth (m):									
				Date Sampled:									
				Asbestos Lab:		DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**								
Dibenz(a,h)Anthracene		N	2790	mg/kg	0.50					[A] < 0.50	[A] < 0.50		
Benzo[g,h,i]perylene		M	2790	mg/kg	0.50					[A] < 0.50	[A] < 0.50		
Naphthalene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.13	< 0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	0.64	< 0.10	< 0.10	< 0.10	0.79	< 0.10	< 0.10	< 0.10
Anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.63	< 0.10	< 0.10	< 0.10
Fluoranthene		M	2800	mg/kg	0.10	0.95	< 0.10	< 0.10	< 0.10	2.4	< 0.10	< 0.10	< 0.10
Pyrene		M	2800	mg/kg	0.10	0.81	< 0.10	< 0.10	< 0.10	2.5	< 0.10	< 0.10	< 0.10
Benzo[a]anthracene		M	2800	mg/kg	0.10	0.41	< 0.10	< 0.10	< 0.10	3.4	< 0.10	< 0.10	< 0.10
Chrysene		M	2800	mg/kg	0.10	0.60	< 0.10	< 0.10	< 0.10	3.6	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	4.1	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	3.8	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	3.8	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	4.2	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	3.9	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	3.9	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's		N	2800	mg/kg	2.0	3.4	< 2.0	< 2.0	< 2.0	37	< 2.0	< 2.0	< 2.0

Results - Soil

Project: 315531 EAF Meltshop

Client: RSK Geosciences				**Chemtest Job No.:**		24-25899	24-25899	24-26534	24-26534	24-26534	24-26534	24-26534	24-26534
Quotation No.: Q24-35208				**Chemtest Sample ID.:**		1850290	1850293	1852980	1852981	1852982	1852984	1852987	1852991
Order No.: P02150967				Client Sample Ref.:				1	1	2	1	1	1
				Client Sample ID.:									
				Sample Location:		TP342	TP388	BH326	BH327	BH327	TP3001	TP399	TP397
				Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Top Depth (m):		3.0	2.5	4.5	3.5	4.5	0.2	0.5	0.0
				Bottom Depth (m):				5.5	4.5	5.5			
				Date Sampled:				15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024
				Asbestos Lab:		DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**								
ACM Type		U	2192		N/A	-	-	-	-	-	-	-	-
Asbestos Identification		U	2192		N/A	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Asbestos by Gravimetry		U	2192	%	0.001								
Total Asbestos		U	2192	%	0.001								
Moisture		N	2030	%	0.020	7.2	6.5	69	71	16	7.3	18	14
Soil Colour		N	2040		N/A	Black	Black	Black	Black	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones	None	None	None	Stones	Stones	Stones and Roots
Soil Texture		N	2040		N/A	Sand	Sand	Sand	Sand	Sand	Sand	Loam	Sand
pH at 20C		M	2010		4.0								
Arsenic		M	2455	mg/kg	0.5	32	10	22	18	5.5	4.4	4.3	13
Cadmium		M	2455	mg/kg	0.10	0.72	< 0.10	1.7	5.2	0.16	0.38	0.31	0.14
Chromium		M	2455	mg/kg	0.5	4800	1700	250	440	9.6	140	33	95
Copper		M	2455	mg/kg	0.50	200	65	130	360	7.3	56	27	20
Mercury		M	2455	mg/kg	0.05	0.26	0.10	0.15	0.22	< 0.05	0.05	0.37	0.08
Nickel		M	2455	mg/kg	0.50	110	35	59	36	4.0	170	14	43
Lead		M	2455	mg/kg	0.50	190	110	210	330	13	40	140	29
Selenium		M	2455	mg/kg	0.25	< 0.25	< 0.25	2.2	1.1	< 0.25	0.69	0.33	1.7
Zinc		M	2455	mg/kg	0.50	350	210	930	2100	140	210	190	100
Chromium (Hexavalent)		N	2490	mg/kg	0.50	0.76	0.59	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	[A] < 0.05	[A] < 0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	[A] < 0.05	[A] < 0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	[A] < 0.05	[A] < 0.05	[B] < 0.05	[B] 0.35	[B] < 0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	[A] < 0.10	[A] < 0.10	[B] < 0.10	[B] 0.35	[B] < 0.10	[B] < 0.10	[B] < 0.10	[B] < 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	[A] < 0.05	[A] < 0.05	[B] 1.5	[B] 2.7	[B] 0.17	[B] < 0.05	[B] < 0.05	[B] < 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	[A] < 0.25	[A] < 0.25	[B] 1.5	[B] 3.1	[B] < 0.25	[B] < 0.25	[B] < 0.25	[B] < 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	[A] 2.1	[A] 9.7	[B] 77	[B] 290	[B] 13	[B] 12	[B] 33	[B] 78
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	[A] < 1.0	[A] 76	[B] 830	[B] 690	[B] 14	[B] 18	[B] 48	[B] 3800
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	[A] 13	[A] 130	[B] 11000	[B] 4000	[B] 170	[B] 23	[B] 120	[B] 3200
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	[A] 62	[A] 430	[B] 90000	[B] 110000	[B] 2600	[B] 150	[B] 940	[B] 1300
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	[A] 21	[A] 74	[B] 13000	[B] 20000	[B] 400	[B] 54	[B] 160	[B] 740
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	[A] 77	[A] 640	[B] 100000	[B] 120000	[B] 2800	[B] 200	[B] 1100	[B] 8400
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	[A] 98	[A] 720	[B] 110000	[B] 140000	[B] 3200	[B] 250	[B] 1300	[B] 9200
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	[A] < 0.05	[A] < 0.05	[B] 0.61	[B] 0.88	[B] < 0.05	[B] < 0.05	[B] 0.20	[B] 0.21
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	[A] < 0.05	[A] < 0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05

Results - Soil

Project: 315531 EAF Meltshop

Client: RSK Geosciences						**Chemtest Job No.:**	24-25899	24-25899	24-26534	24-26534	24-26534	24-26534	24-26534	24-26534
Quotation No.: Q24-35208						**Chemtest Sample ID.:**	1850290	1850293	1852980	1852981	1852982	1852984	1852987	1852991
Order No.: P02150967						Client Sample Ref.:			1	1	2	1	1	1
						Client Sample ID.:								
						Sample Location:	TP342	TP388	BH326	BH327	BH327	TP3001	TP399	TP397
						Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
						Top Depth (m):	3.0	2.5	4.5	3.5	4.5	0.2	0.5	0.0
						Bottom Depth (m):			5.5	4.5	5.5			
						Date Sampled:			15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024
						Asbestos Lab:	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**									
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05		[A] < 0.05	[A] < 0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05	[B] 0.21
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25		[A] < 0.25	[A] < 0.25	[B] 0.61	[B] 0.88	[B] < 0.25	[B] < 0.25	[B] < 0.25	[B] 0.41
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00		[A] < 1.0	[A] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] 15	[B] 48	[B] 150000
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00		[A] < 1.0	[A] 7.9	[B] 140	[B] 170	[B] 1.5	[B] 3.1	[B] 140	[B] 29000
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00		[A] 4.0	[A] 6.2	[B] 3100	[B] 520	[B] 19	[B] 11	[B] 180	[B] 27000
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00		[A] < 2.0	[A] < 2.0	[B] 43	[B] 350	[B] 2.2	[B] 3.5	[B] 100	[B] 13000
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00		[A] < 1.0	[A] 2.2	[B] 4700	[B] 660	[B] 190	[B] 14	[B] 20	[B] 1400
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00		[A] < 5.0	[A] 14	[B] 3200	[B] 1000	[B] 23	[B] 33	[B] 480	[B] 220000
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00		[A] < 10	[A] 16	[B] 8000	[B] 1700	[B] 210	[B] 46	[B] 500	[B] 220000
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50		[A] < 0.50	[A] < 0.50	[B] 2.1	[B] 4.0	[B] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00		[A] 81	[A] 660	[B] 100000	[B] 120000	[B] 2900	[B] 230	[B] 1600	[B] 230000
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00		[A] 100	[A] 730	[B] 120000	[B] 140000	[B] 3500	[B] 300	[B] 1800	[B] 230000
Naphthalene		M	2700	mg/kg	0.10									
Acenaphthylene		M	2700	mg/kg	0.10									
Acenaphthene		M	2700	mg/kg	0.10									
Fluorene		M	2700	mg/kg	0.10									
Phenanthrene		M	2700	mg/kg	0.10									
Anthracene		M	2700	mg/kg	0.10									
Fluoranthene		M	2700	mg/kg	0.10									
Pyrene		M	2700	mg/kg	0.10									
Benzo[a]anthracene		M	2700	mg/kg	0.10									
Chrysene		M	2700	mg/kg	0.10									
Benzo[b]fluoranthene		M	2700	mg/kg	0.10									
Benzo[k]fluoranthene		M	2700	mg/kg	0.10									
Benzo[a]pyrene		M	2700	mg/kg	0.10									
Indeno(1,2,3-c,d)Pyrene		M	2700	mg/kg	0.10									
Dibenz(a,h)Anthracene		M	2700	mg/kg	0.10									
Benzo[g,h,i]perylene		M	2700	mg/kg	0.10									
Total Of 16 PAH's		M	2700	mg/kg	2.0									
Dichlorodifluoromethane		U	2760	µg/kg	1.0			[A] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0			[B] < 1.0
Chloromethane		M	2760	µg/kg	1.0			[A] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0			[B] < 1.0
Vinyl Chloride		M	2760	µg/kg	1.0			[A] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0			[B] < 1.0
Bromomethane		M	2760	µg/kg	20			[A] < 20	[B] < 20	[B] < 20	[B] < 20			[B] < 20
Chloroethane		U	2760	µg/kg	2.0			[A] < 2.0	[B] < 2.0	[B] < 2.0	[B] < 2.0			[B] < 2.0
Trichlorofluoromethane		M	2760	µg/kg	1.0			[A] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0			[B] < 1.0
1,1-Dichloroethene		M	2760	µg/kg	1.0			[A] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0			[B] < 1.0

Results - Soil

Project: 315531 EAF Meltshop

Client: RSK Geosciences				**Chemtest Job No.:**	24-25899	24-25899	24-26534	24-26534	24-26534	24-26534	24-26534	24-26534
Quotation No.: Q24-35208				**Chemtest Sample ID.:**	1850290	1850293	1852980	1852981	1852982	1852984	1852987	1852991
Order No.: P02150967				Client Sample Ref.:			1	1	2	1	1	1
				Client Sample ID.:								
				Sample Location:	TP342	TP388	BH326	BH327	BH327	TP3001	TP399	TP397
				Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Top Depth (m):	3.0	2.5	4.5	3.5	4.5	0.2	0.5	0.0
				Bottom Depth (m):			5.5	4.5	5.5			
				Date Sampled:			15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024
				Asbestos Lab:	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**							
Dichloromethane		N	2760	µg/kg	50		[A] < 50	[B] < 50	[B] < 50	[B] < 50		[B] < 50
Trans 1,2-Dichloroethene		M	2760	µg/kg	1.0		[A] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0		[B] < 1.0
1,1-Dichloroethane		M	2760	µg/kg	1.0		[A] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0		[B] < 1.0
cis 1,2-Dichloroethene		M	2760	µg/kg	1.0		[A] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0		[B] < 1.0
Bromochloromethane		U	2760	µg/kg	5.0		[A] < 5.0	[B] < 5.0	[B] < 5.0	[B] < 5.0		[B] < 5.0
Trichloromethane		M	2760	µg/kg	1.0		[A] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0		[B] < 1.0
1,1,1-Trichloroethane		M	2760	µg/kg	1.0		[A] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0		[B] < 1.0
Tetrachloromethane		M	2760	µg/kg	1.0		[A] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0		[B] < 1.0
1,1-Dichloropropene		U	2760	µg/kg	1.0		[A] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0		[B] < 1.0
Benzene		M	2760	µg/kg	1.0		[A] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0		[B] 43
1,2-Dichloroethane		M	2760	µg/kg	2.0		[A] < 2.0	[B] < 2.0	[B] < 2.0	[B] < 2.0		[B] < 2.0
Trichloroethene		N	2760	µg/kg	1.0		[A] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0		[B] < 1.0
1,2-Dichloropropane		M	2760	µg/kg	1.0		[A] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0		[B] < 1.0
Dibromomethane		M	2760	µg/kg	1.0		[A] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0		[B] < 1.0
Bromodichloromethane		M	2760	µg/kg	5.0		[A] < 5.0	[B] < 5.0	[B] < 5.0	[B] < 5.0		[B] < 5.0
cis-1,3-Dichloropropene		N	2760	µg/kg	10		[A] < 10	[B] < 10	[B] < 10	[B] < 10		[B] < 10
Toluene		M	2760	µg/kg	1.0		[A] < 1.0	[B] 12	[B] < 1.0	[B] < 1.0		[B] 31
Trans-1,3-Dichloropropene		N	2760	µg/kg	10		[A] < 10	[B] < 10	[B] < 10	[B] < 10		[B] < 10
1,1,2-Trichloroethane		M	2760	µg/kg	10		[A] < 10	[B] < 10	[B] < 10	[B] < 10		[B] < 10
Tetrachloroethene		M	2760	µg/kg	1.0		[A] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0		[B] < 1.0
1,3-Dichloropropane		U	2760	µg/kg	2.0		[A] < 2.0	[B] < 2.0	[B] < 2.0	[B] < 2.0		[B] < 2.0
Dibromochloromethane		U	2760	µg/kg	10		[A] < 10	[B] < 10	[B] < 10	[B] < 10		[B] < 10
1,2-Dibromoethane		M	2760	µg/kg	5.0		[A] < 5.0	[B] < 5.0	[B] < 5.0	[B] < 5.0		[B] < 5.0
Chlorobenzene		M	2760	µg/kg	1.0		[A] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0		[B] < 1.0
1,1,1,2-Tetrachloroethane		M	2760	µg/kg	2.0		[A] < 2.0	[B] < 2.0	[B] < 2.0	[B] < 2.0		[B] < 2.0
Ethylbenzene		M	2760	µg/kg	1.0		[A] < 1.0	[B] < 1.0	[B] 20	[B] < 1.0		[B] 4.1
m & p-Xylene		M	2760	µg/kg	1.0		[A] < 1.0	[B] 43	[B] 43	[B] < 1.0		[B] 14
o-Xylene		M	2760	µg/kg	1.0		[A] < 1.0	[B] 74	[B] 120	[B] 3.1		[B] 11
Styrene		M	2760	µg/kg	1.0		[A] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0		[B] 50
Tribromomethane		U	2760	µg/kg	1.0		[A] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0		[B] < 1.0
Isopropylbenzene		M	2760	µg/kg	1.0		[A] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0		[B] < 1.0
Bromobenzene		M	2760	µg/kg	1.0		[A] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0		[B] < 1.0
1,2,3-Trichloropropane		N	2760	µg/kg	50		[A] < 50	[B] < 50	[B] < 50	[B] < 50		[B] < 50
N-Propylbenzene		U	2760	µg/kg	1.0		[A] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0		[B] < 1.0
2-Chlorotoluene		M	2760	µg/kg	1.0		[A] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0		[B] < 1.0
1,3,5-Trimethylbenzene		M	2760	µg/kg	1.0		[A] 1.9	[B] < 1.0	[B] < 1.0	[B] < 1.0		[B] 5.2

Results - Soil

Project: 315531 EAF Meltshop

Client: RSK Geosciences				**Chemtest Job No.:**	24-25899	24-25899	24-26534	24-26534	24-26534	24-26534	24-26534	24-26534
Quotation No.: Q24-35208				**Chemtest Sample ID.:**	1850290	1850293	1852980	1852981	1852982	1852984	1852987	1852991
Order No.: P02150967				Client Sample Ref.:			1	1	2	1	1	1
				Client Sample ID.:								
				Sample Location:	TP342	TP388	BH326	BH327	BH327	TP3001	TP399	TP397
				Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Top Depth (m):	3.0	2.5	4.5	3.5	4.5	0.2	0.5	0.0
				Bottom Depth (m):			5.5	4.5	5.5			
				Date Sampled:			15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024
				Asbestos Lab:	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**							
4-Chlorotoluene		U	2760	µg/kg	1.0		[A] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0		[B] < 1.0
Tert-Butylbenzene		U	2760	µg/kg	1.0		[A] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0		[B] < 1.0
1,2,4-Trimethylbenzene		M	2760	µg/kg	1.0		[A] 4.7	[B] < 1.0	[B] < 1.0	[B] < 1.0		[B] 6.3
Sec-Butylbenzene		U	2760	µg/kg	1.0		[A] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0		[B] < 1.0
1,3-Dichlorobenzene		M	2760	µg/kg	1.0		[A] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0		[B] < 1.0
4-Isopropyltoluene		U	2760	µg/kg	1.0		[A] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0		[B] < 1.0
1,4-Dichlorobenzene		M	2760	µg/kg	1.0		[A] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0		[B] < 1.0
N-Butylbenzene		U	2760	µg/kg	1.0		[A] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0		[B] < 1.0
1,2-Dichlorobenzene		M	2760	µg/kg	1.0		[A] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0		[B] < 1.0
1,2-Dibromo-3-Chloropropane		U	2760	µg/kg	50		[A] < 50	[B] < 50	[B] < 50	[B] < 50		[B] < 50
1,2,4-Trichlorobenzene		M	2760	µg/kg	1.0		[A] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0		[B] < 1.0
Hexachlorobutadiene		N	2760	µg/kg	1.0		[A] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0		[B] < 1.0
1,2,3-Trichlorobenzene		U	2760	µg/kg	2.0		[A] < 2.0	[B] < 2.0	[B] < 2.0	[B] < 2.0		[B] < 2.0
Methyl Tert-Butyl Ether		M	2760	µg/kg	1.0		[A] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0		[B] < 1.0
N-Nitrosodimethylamine		M	2790	mg/kg	0.50		[A] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50		[B] < 5.80
Phenol		M	2790	mg/kg	0.50		[A] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50		[B] < 5.80
2-Chlorophenol		N	2790	mg/kg	0.50		[A] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50		[B] < 5.80
Bis-(2-Chloroethyl)Ether		M	2790	mg/kg	0.50		[A] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50		[B] < 5.80
1,3-Dichlorobenzene		M	2790	mg/kg	0.50		[A] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50		[B] < 5.80
1,4-Dichlorobenzene		N	2790	mg/kg	0.50		[A] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50		[B] < 5.80
1,2-Dichlorobenzene		M	2790	mg/kg	0.50		[A] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50		[B] < 5.80
2-Methylphenol		M	2790	mg/kg	0.50		[A] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50		[B] < 5.80
Bis(2-Chloroisopropyl)Ether		M	2790	mg/kg	0.50		[A] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50		[B] < 5.80
Hexachloroethane		N	2790	mg/kg	0.50		[A] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50		[B] < 5.80
N-Nitrosodi-n-propylamine		M	2790	mg/kg	0.50		[A] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50		[B] < 5.80
4-Methylphenol		M	2790	mg/kg	0.50		[A] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50		[B] < 5.80
Nitrobenzene		N	2790	mg/kg	0.50		[A] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50		[B] < 5.80
Isophorone		M	2790	mg/kg	0.50		[A] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50		[B] < 5.80
2-Nitrophenol		N	2790	mg/kg	0.50		[A] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50		[B] < 5.80
2,4-Dimethylphenol		N	2790	mg/kg	0.50		[A] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50		[B] < 5.80
Bis(2-Chloroethoxy)Methane		M	2790	mg/kg	0.50		[A] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50		[B] < 5.80
2,4-Dichlorophenol		N	2790	mg/kg	0.50		[A] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50		[B] < 5.80
1,2,4-Trichlorobenzene		M	2790	mg/kg	0.50		[A] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50		[B] < 5.80
Naphthalene		M	2790	mg/kg	0.50		[A] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50		[B] > 5800
4-Chloroaniline		N	2790	mg/kg	0.50		[A] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50		[B] < 5.80
Hexachlorobutadiene		M	2790	mg/kg	0.50		[A] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50		[B] < 5.80

Results - Soil

Project: 315531 EAF Meltshop

Client: RSK Geosciences						**Chemtest Job No.:**	24-25899	24-25899	24-26534	24-26534	24-26534	24-26534	24-26534	24-26534
Quotation No.: Q24-35208						**Chemtest Sample ID.:**	1850290	1850293	1852980	1852981	1852982	1852984	1852987	1852991
Order No.: P02150967						Client Sample Ref.:			1	1	2	1	1	1
						Client Sample ID.:								
						Sample Location:	TP342	TP388	BH326	BH327	BH327	TP3001	TP399	TP397
						Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
						Top Depth (m):	3.0	2.5	4.5	3.5	4.5	0.2	0.5	0.0
						Bottom Depth (m):			5.5	4.5	5.5			
						Date Sampled:			15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024
						Asbestos Lab:	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**									
4-Chloro-3-Methylphenol		N	2790	mg/kg	0.50		[A] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50			[B] < 5.80
2-Methylnaphthalene		M	2790	mg/kg	0.50		[A] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50			[B] 470
4-Nitrophenol		N	2790	mg/kg	0.50		[A] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50			[B] < 5.80
2,4,6-Trichlorophenol		N	2790	mg/kg	0.50		[A] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50			[B] < 5.80
2,4,5-Trichlorophenol		N	2790	mg/kg	0.50		[A] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50			[B] < 5.80
2-Chloronaphthalene		M	2790	mg/kg	0.50		[A] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50			[B] < 5.80
2-Nitroaniline		N	2790	mg/kg	0.50		[A] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50			[B] < 5.80
Acenaphthylene		M	2790	mg/kg	0.50		[A] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50			[B] 180
Dimethylphthalate		M	2790	mg/kg	0.50		[A] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50			[B] < 5.80
2,6-Dinitrotoluene		N	2790	mg/kg	0.50		[A] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50			[B] < 5.80
Acenaphthene		M	2790	mg/kg	0.50		[A] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50			[B] 1600
3-Nitroaniline		N	2790	mg/kg	0.50		[A] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50			[B] < 5.80
Dibenzofuran		M	2790	mg/kg	0.50		[A] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50			[B] 890
4-Chlorophenylphenylether		M	2790	mg/kg	0.50		[A] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50			[B] < 5.80
2,4-Dinitrotoluene		N	2790	mg/kg	0.50		[A] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50			[B] < 5.80
Fluorene		M	2790	mg/kg	0.50		[A] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50			[B] 540
Diethyl Phthalate		M	2790	mg/kg	0.50		[A] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50			[B] < 5.80
4-Nitroaniline		N	2790	mg/kg	0.50		[A] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50			[B] < 5.80
Azobenzene		M	2790	mg/kg	0.50		[A] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50			[B] < 5.80
4-Bromophenylphenyl Ether		M	2790	mg/kg	0.50		[A] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50			[B] < 5.80
Hexachlorobenzene		M	2790	mg/kg	0.50		[A] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50			[B] < 5.80
Phenanthrene		M	2790	mg/kg	0.50		[A] < 0.50	[B] 1.7	[B] 1.7	[B] < 0.50			[B] 910
Anthracene		M	2790	mg/kg	0.50		[A] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50			[B] 450
Carbazole		M	2790	mg/kg	0.50		[A] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50			[B] 3500
Di-N-Butyl Phthalate		N	2790	mg/kg	0.50		[A] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50			[B] < 5.80
Fluoranthene		M	2790	mg/kg	0.50		[A] < 0.50	[B] 3.4	[B] 3.3	[B] < 0.50			[B] 700
Pyrene		M	2790	mg/kg	0.50		[A] < 0.50	[B] 5.8	[B] 4.5	[B] < 0.50			[B] 480
Butylbenzyl Phthalate		N	2790	mg/kg	0.50		[A] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50			[B] < 5.80
Benzo[a]anthracene		M	2790	mg/kg	0.50		[A] < 0.50	[B] 1.9	[B] < 0.50	[B] < 0.50			[B] 310
Chrysene		M	2790	mg/kg	0.50		[A] < 0.50	[B] 4.9	[B] < 0.50	[B] < 0.50			[B] 310
Bis(2-Ethylhexyl)Phthalate		N	2790	mg/kg	0.50		[A] < 0.50	[B] 2.2	[B] 9.6	[B] < 0.50			[B] < 5.80
Di-N-Octyl Phthalate		N	2790	mg/kg	0.50		[A] < 0.50	[B] 2.1	[B] < 0.50	[B] < 0.50			[B] < 5.80
Benzo[b]fluoranthene		M	2790	mg/kg	0.50		[A] < 0.50	[B] 3.3	[B] 2.0	[B] < 0.50			[B] 380
Benzo[k]fluoranthene		M	2790	mg/kg	0.50		[A] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50			[B] 91
Benzo[a]pyrene		M	2790	mg/kg	0.50		[A] < 0.50	[B] 1.8	[B] < 0.50	[B] < 0.50			[B] 180
Indeno(1,2,3-c,d)Pyrene		N	2790	mg/kg	0.50		[A] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50			[B] 160

Results - Soil

Project: 315531 EAF Meltshop

Client: RSK Geosciences				**Chemtest Job No.:**		24-25899	24-25899	24-26534	24-26534	24-26534	24-26534	24-26534	24-26534
Quotation No.: Q24-35208				**Chemtest Sample ID.:**		1850290	1850293	1852980	1852981	1852982	1852984	1852987	1852991
Order No.: P02150967				Client Sample Ref.:				1	1	2	1	1	1
				Client Sample ID.:									
				Sample Location:		TP342	TP388	BH326	BH327	BH327	TP3001	TP399	TP397
				Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Top Depth (m):		3.0	2.5	4.5	3.5	4.5	0.2	0.5	0.0
				Bottom Depth (m):				5.5	4.5	5.5			
				Date Sampled:				15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024
				Asbestos Lab:		DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**								
Dibenz(a,h)Anthracene		N	2790	mg/kg	0.50		[A] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50			[B] 47
Benzo[g,h,i]perylene		M	2790	mg/kg	0.50		[A] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50			[B] 150
Naphthalene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	11	< 0.10	0.42	16	380
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	1.8	< 0.10	0.11	1.2	6.7
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	1.9	< 0.10	< 0.10	3.4	41
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	2.0	< 0.10	0.11	2.0	21
Phenanthrene		M	2800	mg/kg	0.10	0.19	0.32	< 0.10	2.4	< 0.10	0.78	11	38
Anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.15	2.9	22
Fluoranthene		M	2800	mg/kg	0.10	0.40	0.48	< 0.10	3.4	< 0.10	0.87	9.4	32
Pyrene		M	2800	mg/kg	0.10	0.28	0.28	< 0.10	4.3	< 0.10	0.66	7.4	21
Benzo[a]anthracene		M	2800	mg/kg	0.10	0.15	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	3.4	12
Chrysene		M	2800	mg/kg	0.10	0.18	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	4.1	11
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	4.9	< 0.10
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	1.4	< 0.10
Benzo[a]pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	2.9	< 0.10
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	2.1	< 0.10
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.53	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	2.1	< 0.10
Total Of 16 PAH's		N	2800	mg/kg	2.0	< 2.0	< 2.0	< 2.0	27	< 2.0	3.1	75	580

Results - Soil

Project: 315531 EAF Meltshop

Client: RSK Geosciences						**Chemtest Job No.:**	24-27128	24-27128	24-27128	24-27128	24-27793	24-27793	24-27793	24-29969
Quotation No.: Q24-35208						**Chemtest Sample ID.:**	1855529	1855532	1855534	1855536	1858447	1858448	1858450	1867652
Order No.: P02150967						Client Sample Ref.:					ES4	ES1	ES3	
						Client Sample ID.:								
						Sample Location:	TP376	TP375	TP374	TP341	BH305	BH303A	BH303A	TP3005
						Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
						Top Depth (m):	0.25	1.60	1.40	2.30	5.5	0.6	3.0	1.50
						Bottom Depth (m):								
						Date Sampled:	19-Aug-2024	19-Aug-2024	19-Aug-2024	19-Aug-2024				
						Asbestos Lab:	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**									
ACM Type		U	2192		N/A		-	Fibres/Clumps	-	-	-	-	-	-
Asbestos Identification		U	2192		N/A		No Asbestos Detected	Chrysotile	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Asbestos by Gravimetry		U	2192	%	0.001			<0.001						
Total Asbestos		U	2192	%	0.001			<0.001						
Moisture		N	2030	%	0.020		6.3	25	19	24	17	9.6	15	3.7
Soil Colour		N	2040		N/A		Black	Black	Black	Black	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A		Stones and Roots	Stones and Roots	Stones	Stones	Stones	Stones	Stones	Roots and Stones
Soil Texture		N	2040		N/A		Sand	Clay	Clay	Clay	Sand	Sand	Sand	Sand
pH at 20C		M	2010		4.0									[A] 9.7
Arsenic		M	2455	mg/kg	0.5		< 0.5	11	7.5	14	< 0.5	0.9	1.6	7.3
Cadmium		M	2455	mg/kg	0.10		0.58	< 0.10	< 0.10	< 0.10	< 0.10	0.51	< 0.10	0.58
Chromium		M	2455	mg/kg	0.5		70	48	30	51	15	1400	510	14
Copper		M	2455	mg/kg	0.50		20	66	100	92	2.6	140	20	21
Mercury		M	2455	mg/kg	0.05		0.20	0.13	0.09	0.15	< 0.05	0.08	< 0.05	0.13
Nickel		M	2455	mg/kg	0.50		11	16	43	64	4.7	28	21	6.8
Lead		M	2455	mg/kg	0.50		68	100	87	130	5.3	50	10	70
Selenium		M	2455	mg/kg	0.25		1.1	1.8	1.6	2.4	< 0.25	0.77	0.57	2.9
Zinc		M	2455	mg/kg	0.50		390	29	45	52	17	190	74	200
Chromium (Hexavalent)		N	2490	mg/kg	0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05		[B] < 0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05	[A] < 0.05	[A] < 0.05	[A] < 0.05	[A] < 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05		[B] < 0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05	[A] < 0.05	[A] < 0.05	[A] < 0.05	[A] < 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05		[B] < 0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05	[A] < 0.05	[A] < 0.05	[A] < 0.05	[A] < 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10		[B] < 0.10	[B] < 0.10	[B] < 0.10	[B] < 0.10	[A] < 0.10	[A] < 0.10	[A] < 0.10	[A] < 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05		[B] < 0.05	[B] 0.17	[B] 0.27	[B] 0.21	[A] < 0.05	[A] < 0.05	[A] 0.14	[A] < 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25		[B] < 0.25	[B] < 0.25	[B] 0.27	[B] < 0.25	[A] < 0.25	[A] < 0.25	[A] < 0.25	[A] < 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00		[B] < 2.0	[B] 76	[B] 120	[B] 230	[A] 2.6	[A] 3.5	[A] < 2.0	[A] 2.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00		[B] 7.1	[B] 360	[B] 410	[B] 720	[A] 3.9	[A] 12	[A] 20	[A] < 1.0
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00		[B] 8.6	[B] 8300	[B] 1800	[B] 4700	[A] 14	[A] 44	[A] 26	[A] < 2.0
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00		[B] 32	[B] 44000	[B] 7100	[B] 21000	[A] 85	[A] 120	[A] 53	[A] < 3.0
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00		[B] 13	[B] 5500	[B] 1200	[B] 5100	[A] 14	[A] 37	[A] 16	[A] < 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00		[B] 48	[B] 52000	[B] 9400	[B] 26000	[A] 110	[A] 180	[A] 100	[A] < 5.0
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00		[B] 61	[B] 58000	[B] 11000	[B] 31000	[A] 120	[A] 220	[A] 120	[A] < 10
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05		[B] < 0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05	[A] < 0.05	[A] < 0.05	[A] < 0.05	[A] < 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05		[B] < 0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05	[A] < 0.05	[A] < 0.05	[A] < 0.05	[A] < 0.05

Results - Soil

Project: 315531 EAF Meltshop

Client: RSK Geosciences						**Chemtest Job No.:**	24-27128	24-27128	24-27128	24-27128	24-27793	24-27793	24-27793	24-29969
Quotation No.: Q24-35208						**Chemtest Sample ID.:**	1855529	1855532	1855534	1855536	1858447	1858448	1858450	1867652
Order No.: P02150967						Client Sample Ref.:					ES4	ES1	ES3	
						Client Sample ID.:								
						Sample Location:	TP376	TP375	TP374	TP341	BH305	BH303A	BH303A	TP3005
						Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
						Top Depth (m):	0.25	1.60	1.40	2.30	5.5	0.6	3.0	1.50
						Bottom Depth (m):								
						Date Sampled:	19-Aug-2024	19-Aug-2024	19-Aug-2024	19-Aug-2024				
						Asbestos Lab:	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**									
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05		[B] < 0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05	[A] < 0.05	[A] < 0.05	[A] < 0.05	[A] < 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25		[B] < 0.25	[B] < 0.25	[B] < 0.25	[B] < 0.25	[A] < 0.25	[A] < 0.25	[A] < 0.25	[A] < 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00		[B] < 1.0	[B] 73	[B] 95	[B] 120	[A] 1.2	[A] < 1.0	[A] < 1.0	[A] < 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00		[B] < 1.0	[B] 470	[B] 300	[B] 500	[A] < 1.0	[A] < 1.0	[A] 3.2	[A] < 1.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00		[B] 5.2	[B] 1200	[B] 600	[B] 1500	[A] 3.0	[A] < 2.0	[A] 20	[A] 5.2
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00		[B] 15	[B] 33	[B] 11	[B] 210	[A] 22	[A] 2.7	[A] 6.8	[A] < 2.0
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00		[B] 12	[B] 110	[B] 260	[B] 150	[A] 190	[A] 7.5	[A] 7.0	[A] < 1.0
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00		[B] 20	[B] 1800	[B] 1000	[B] 2300	[A] 26	[A] 5.6	[A] 30	[A] 6.1
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00		[B] 33	[B] 1900	[B] 1300	[B] 2400	[A] 220	[A] 13	[A] 37	[A] < 10
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50		[B] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50	[A] < 0.50	[A] < 0.50	[A] < 0.50	[A] < 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00		[B] 68	[B] 54000	[B] 10000	[B] 29000	[A] 130	[A] 190	[A] 130	[A] 11
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00		[B] 93	[B] 60000	[B] 12000	[B] 34000	[A] 340	[A] 230	[A] 150	[A] 11
Naphthalene		M	2700	mg/kg	0.10									
Acenaphthylene		M	2700	mg/kg	0.10									
Acenaphthene		M	2700	mg/kg	0.10									
Fluorene		M	2700	mg/kg	0.10									
Phenanthrene		M	2700	mg/kg	0.10									
Anthracene		M	2700	mg/kg	0.10									
Fluoranthene		M	2700	mg/kg	0.10									
Pyrene		M	2700	mg/kg	0.10									
Benzo[a]anthracene		M	2700	mg/kg	0.10									
Chrysene		M	2700	mg/kg	0.10									
Benzo[b]fluoranthene		M	2700	mg/kg	0.10									
Benzo[k]fluoranthene		M	2700	mg/kg	0.10									
Benzo[a]pyrene		M	2700	mg/kg	0.10									
Indeno(1,2,3-c,d)Pyrene		M	2700	mg/kg	0.10									
Dibenz(a,h)Anthracene		M	2700	mg/kg	0.10									
Benzo[g,h,i]perylene		M	2700	mg/kg	0.10									
Total Of 16 PAH's		M	2700	mg/kg	2.0									
Dichlorodifluoromethane		U	2760	µg/kg	1.0		[B] < 1.0				[A] < 1.0			[A] < 1.0
Chloromethane		M	2760	µg/kg	1.0		[B] < 1.0				[A] < 1.0			[A] < 1.0
Vinyl Chloride		M	2760	µg/kg	1.0		[B] < 1.0				[A] < 1.0			[A] < 1.0
Bromomethane		M	2760	µg/kg	20		[B] < 20				[A] < 20			[A] < 20
Chloroethane		U	2760	µg/kg	2.0		[B] < 2.0				[A] < 2.0			[A] < 2.0
Trichlorofluoromethane		M	2760	µg/kg	1.0		[B] < 1.0				[A] < 1.0			[A] < 1.0
1,1-Dichloroethene		M	2760	µg/kg	1.0		[B] < 1.0				[A] < 1.0			[A] < 1.0

Results - Soil

Project: 315531 EAF Meltshop

Client: RSK Geosciences				**Chemtest Job No.:**		24-27128	24-27128	24-27128	24-27128	24-27793	24-27793	24-27793	24-29969
Quotation No.: Q24-35208				**Chemtest Sample ID.:**		1855529	1855532	1855534	1855536	1858447	1858448	1858450	1867652
Order No.: P02150967				Client Sample Ref.:						ES4	ES1	ES3	
				Client Sample ID.:									
				Sample Location:		TP376	TP375	TP374	TP341	BH305	BH303A	BH303A	TP3005
				Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Top Depth (m):		0.25	1.60	1.40	2.30	5.5	0.6	3.0	1.50
				Bottom Depth (m):									
				Date Sampled:		19-Aug-2024	19-Aug-2024	19-Aug-2024	19-Aug-2024				
				Asbestos Lab:		DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**								
Dichloromethane		N	2760	µg/kg	50	[B] < 50				[A] < 50			[A] < 50
Trans 1,2-Dichloroethene		M	2760	µg/kg	1.0	[B] < 1.0				[A] < 1.0			[A] < 1.0
1,1-Dichloroethane		M	2760	µg/kg	1.0	[B] < 1.0				[A] < 1.0			[A] < 1.0
cis 1,2-Dichloroethene		M	2760	µg/kg	1.0	[B] < 1.0				[A] < 1.0			[A] < 1.0
Bromochloromethane		U	2760	µg/kg	5.0	[B] < 5.0				[A] < 5.0			[A] < 5.0
Trichloromethane		M	2760	µg/kg	1.0	[B] < 1.0				[A] 1.2			[A] < 1.0
1,1,1-Trichloroethane		M	2760	µg/kg	1.0	[B] < 1.0				[A] < 1.0			[A] < 1.0
Tetrachloromethane		M	2760	µg/kg	1.0	[B] < 1.0				[A] < 1.0			[A] < 1.0
1,1-Dichloropropene		U	2760	µg/kg	1.0	[B] < 1.0				[A] < 1.0			[A] < 1.0
Benzene		M	2760	µg/kg	1.0	[B] < 1.0				[A] < 1.0			[A] < 1.0
1,2-Dichloroethane		M	2760	µg/kg	2.0	[B] < 2.0				[A] < 2.0			[A] < 2.0
Trichloroethene		N	2760	µg/kg	1.0	[B] < 1.0				[A] < 1.0			[A] < 1.0
1,2-Dichloropropane		M	2760	µg/kg	1.0	[B] < 1.0				[A] < 1.0			[A] < 1.0
Dibromomethane		M	2760	µg/kg	1.0	[B] < 1.0				[A] < 1.0			[A] < 1.0
Bromodichloromethane		M	2760	µg/kg	5.0	[B] < 5.0				[A] < 5.0			[A] < 5.0
cis-1,3-Dichloropropene		N	2760	µg/kg	10	[B] < 10				[A] < 10			[A] < 10
Toluene		M	2760	µg/kg	1.0	[B] < 1.0				[A] 1.5			[A] < 1.0
Trans-1,3-Dichloropropene		N	2760	µg/kg	10	[B] < 10				[A] < 10			[A] < 10
1,1,2-Trichloroethane		M	2760	µg/kg	10	[B] < 10				[A] < 10			[A] < 10
Tetrachloroethene		M	2760	µg/kg	1.0	[B] < 1.0				[A] < 1.0			[A] < 1.0
1,3-Dichloropropane		U	2760	µg/kg	2.0	[B] < 2.0				[A] < 2.0			[A] < 2.0
Dibromochloromethane		U	2760	µg/kg	10	[B] < 10				[A] < 10			[A] < 10
1,2-Dibromoethane		M	2760	µg/kg	5.0	[B] < 5.0				[A] < 5.0			[A] < 5.0
Chlorobenzene		M	2760	µg/kg	1.0	[B] < 1.0				[A] < 1.0			[A] < 1.0
1,1,1,2-Tetrachloroethane		M	2760	µg/kg	2.0	[B] < 2.0				[A] < 2.0			[A] < 2.0
Ethylbenzene		M	2760	µg/kg	1.0	[B] < 1.0				[A] < 1.0			[A] < 1.0
m & p-Xylene		M	2760	µg/kg	1.0	[B] < 1.0				[A] < 1.0			[A] < 1.0
o-Xylene		M	2760	µg/kg	1.0	[B] < 1.0				[A] < 1.0			[A] < 1.0
Styrene		M	2760	µg/kg	1.0	[B] < 1.0				[A] < 1.0			[A] < 1.0
Tribromomethane		U	2760	µg/kg	1.0	[B] < 1.0				[A] < 1.0			[A] < 1.0
Isopropylbenzene		M	2760	µg/kg	1.0	[B] < 1.0				[A] < 1.0			[A] < 1.0
Bromobenzene		M	2760	µg/kg	1.0	[B] < 1.0				[A] < 1.0			[A] < 1.0
1,2,3-Trichloropropane		N	2760	µg/kg	50	[B] < 50				[A] < 50			[A] < 50
N-Propylbenzene		U	2760	µg/kg	1.0	[B] < 1.0				[A] < 1.0			[A] < 1.0
2-Chlorotoluene		M	2760	µg/kg	1.0	[B] < 1.0				[A] < 1.0			[A] < 1.0
1,3,5-Trimethylbenzene		M	2760	µg/kg	1.0	[B] < 1.0				[A] < 1.0			[A] < 1.0

Results - Soil

Project: 315531 EAF Meltshop

Client: RSK Geosciences				**Chemtest Job No.:**	24-27128	24-27128	24-27128	24-27128	24-27793	24-27793	24-27793	24-29969
Quotation No.: Q24-35208				**Chemtest Sample ID.:**	1855529	1855532	1855534	1855536	1858447	1858448	1858450	1867652
Order No.: P02150967				Client Sample Ref.:					ES4	ES1	ES3	
				Client Sample ID.:								
				Sample Location:	TP376	TP375	TP374	TP341	BH305	BH303A	BH303A	TP3005
				Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Top Depth (m):	0.25	1.60	1.40	2.30	5.5	0.6	3.0	1.50
				Bottom Depth (m):								
				Date Sampled:	19-Aug-2024	19-Aug-2024	19-Aug-2024	19-Aug-2024				
				Asbestos Lab:	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**							
4-Chlorotoluene		U	2760	µg/kg	1.0	[B] < 1.0				[A] < 1.0			[A] < 1.0
Tert-Butylbenzene		U	2760	µg/kg	1.0	[B] < 1.0				[A] < 1.0			[A] < 1.0
1,2,4-Trimethylbenzene		M	2760	µg/kg	1.0	[B] < 1.0				[A] < 1.0			[A] < 1.0
Sec-Butylbenzene		U	2760	µg/kg	1.0	[B] < 1.0				[A] < 1.0			[A] < 1.0
1,3-Dichlorobenzene		M	2760	µg/kg	1.0	[B] < 1.0				[A] < 1.0			[A] < 1.0
4-Isopropyltoluene		U	2760	µg/kg	1.0	[B] < 1.0				[A] < 1.0			[A] < 1.0
1,4-Dichlorobenzene		M	2760	µg/kg	1.0	[B] < 1.0				[A] < 1.0			[A] < 1.0
N-Butylbenzene		U	2760	µg/kg	1.0	[B] < 1.0				[A] < 1.0			[A] < 1.0
1,2-Dichlorobenzene		M	2760	µg/kg	1.0	[B] < 1.0				[A] < 1.0			[A] < 1.0
1,2-Dibromo-3-Chloropropane		U	2760	µg/kg	50	[B] < 50				[A] < 50			[A] < 50
1,2,4-Trichlorobenzene		M	2760	µg/kg	1.0	[B] < 1.0				[A] < 1.0			[A] < 1.0
Hexachlorobutadiene		N	2760	µg/kg	1.0	[B] < 1.0				[A] < 1.0			[A] < 1.0
1,2,3-Trichlorobenzene		U	2760	µg/kg	2.0	[B] < 2.0				[A] < 2.0			[A] < 2.0
Methyl Tert-Butyl Ether		M	2760	µg/kg	1.0	[B] < 1.0				[A] < 1.0			[A] < 1.0
N-Nitrosodimethylamine		M	2790	mg/kg	0.50	[B] < 0.50				[A] < 0.50			[A] < 0.50
Phenol		M	2790	mg/kg	0.50	[B] < 0.50				[A] < 0.50			[A] < 0.50
2-Chlorophenol		N	2790	mg/kg	0.50	[B] < 0.50				[A] < 0.50			[A] < 0.50
Bis-(2-Chloroethyl)Ether		M	2790	mg/kg	0.50	[B] < 0.50				[A] < 0.50			[A] < 0.50
1,3-Dichlorobenzene		M	2790	mg/kg	0.50	[B] < 0.50				[A] < 0.50			[A] < 0.50
1,4-Dichlorobenzene		N	2790	mg/kg	0.50	[B] < 0.50				[A] < 0.50			[A] < 0.50
1,2-Dichlorobenzene		M	2790	mg/kg	0.50	[B] < 0.50				[A] < 0.50			[A] < 0.50
2-Methylphenol		M	2790	mg/kg	0.50	[B] < 0.50				[A] < 0.50			[A] < 0.50
Bis(2-Chloroisopropyl)Ether		M	2790	mg/kg	0.50	[B] < 0.50				[A] < 0.50			[A] < 0.50
Hexachloroethane		N	2790	mg/kg	0.50	[B] < 0.50				[A] < 0.50			[A] < 0.50
N-Nitrosodi-n-propylamine		M	2790	mg/kg	0.50	[B] < 0.50				[A] < 0.50			[A] < 0.50
4-Methylphenol		M	2790	mg/kg	0.50	[B] < 0.50				[A] < 0.50			[A] < 0.50
Nitrobenzene		N	2790	mg/kg	0.50	[B] < 0.50				[A] < 0.50			[A] < 0.50
Isophorone		M	2790	mg/kg	0.50	[B] < 0.50				[A] < 0.50			[A] < 0.50
2-Nitrophenol		N	2790	mg/kg	0.50	[B] < 0.50				[A] < 0.50			[A] < 0.50
2,4-Dimethylphenol		N	2790	mg/kg	0.50	[B] < 0.50				[A] < 0.50			[A] < 0.50
Bis(2-Chloroethoxy)Methane		M	2790	mg/kg	0.50	[B] < 0.50				[A] < 0.50			[A] < 0.50
2,4-Dichlorophenol		N	2790	mg/kg	0.50	[B] < 0.50				[A] < 0.50			[A] < 0.50
1,2,4-Trichlorobenzene		M	2790	mg/kg	0.50	[B] < 0.50				[A] < 0.50			[A] < 0.50
Naphthalene		M	2790	mg/kg	0.50	[B] < 0.50				[A] < 0.50			[A] < 0.50
4-Chloroaniline		N	2790	mg/kg	0.50	[B] < 0.50				[A] < 0.50			[A] < 0.50
Hexachlorobutadiene		M	2790	mg/kg	0.50	[B] < 0.50				[A] < 0.50			[A] < 0.50

Results - Soil

Project: 315531 EAF Meltshop

Client: RSK Geosciences				**Chemtest Job No.:**		24-27128	24-27128	24-27128	24-27128	24-27793	24-27793	24-27793	24-29969
Quotation No.: Q24-35208				**Chemtest Sample ID.:**		1855529	1855532	1855534	1855536	1858447	1858448	1858450	1867652
Order No.: P02150967				Client Sample Ref.:						ES4	ES1	ES3	
				Client Sample ID.:									
				Sample Location:		TP376	TP375	TP374	TP341	BH305	BH303A	BH303A	TP3005
				Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Top Depth (m):		0.25	1.60	1.40	2.30	5.5	0.6	3.0	1.50
				Bottom Depth (m):									
				Date Sampled:		19-Aug-2024	19-Aug-2024	19-Aug-2024	19-Aug-2024				
				Asbestos Lab:		DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**								
4-Chloro-3-Methylphenol		N	2790	mg/kg	0.50	[B] < 0.50				[A] < 0.50			[A] < 0.50
2-Methylnaphthalene		M	2790	mg/kg	0.50	[B] < 0.50				[A] < 0.50			[A] < 0.50
4-Nitrophenol		N	2790	mg/kg	0.50	[B] < 0.50				[A] < 0.50			[A] < 0.50
2,4,6-Trichlorophenol		N	2790	mg/kg	0.50	[B] < 0.50				[A] < 0.50			[A] < 0.50
2,4,5-Trichlorophenol		N	2790	mg/kg	0.50	[B] < 0.50				[A] < 0.50			[A] < 0.50
2-Chloronaphthalene		M	2790	mg/kg	0.50	[B] < 0.50				[A] < 0.50			[A] < 0.50
2-Nitroaniline		N	2790	mg/kg	0.50	[B] < 0.50				[A] < 0.50			[A] < 0.50
Acenaphthylene		M	2790	mg/kg	0.50	[B] < 0.50				[A] < 0.50			[A] < 0.50
Dimethylphthalate		M	2790	mg/kg	0.50	[B] < 0.50				[A] < 0.50			[A] < 0.50
2,6-Dinitrotoluene		N	2790	mg/kg	0.50	[B] < 0.50				[A] < 0.50			[A] < 0.50
Acenaphthene		M	2790	mg/kg	0.50	[B] < 0.50				[A] < 0.50			[A] < 0.50
3-Nitroaniline		N	2790	mg/kg	0.50	[B] < 0.50				[A] < 0.50			[A] < 0.50
Dibenzofuran		M	2790	mg/kg	0.50	[B] < 0.50				[A] < 0.50			[A] < 0.50
4-Chlorophenylphenylether		M	2790	mg/kg	0.50	[B] < 0.50				[A] < 0.50			[A] < 0.50
2,4-Dinitrotoluene		N	2790	mg/kg	0.50	[B] < 0.50				[A] < 0.50			[A] < 0.50
Fluorene		M	2790	mg/kg	0.50	[B] < 0.50				[A] < 0.50			[A] < 0.50
Diethyl Phthalate		M	2790	mg/kg	0.50	[B] < 0.50				[A] < 0.50			[A] < 0.50
4-Nitroaniline		N	2790	mg/kg	0.50	[B] < 0.50				[A] < 0.50			[A] < 0.50
Azobenzene		M	2790	mg/kg	0.50	[B] < 0.50				[A] < 0.50			[A] < 0.50
4-Bromophenylphenyl Ether		M	2790	mg/kg	0.50	[B] < 0.50				[A] < 0.50			[A] < 0.50
Hexachlorobenzene		M	2790	mg/kg	0.50	[B] < 0.50				[A] < 0.50			[A] < 0.50
Phenanthrene		M	2790	mg/kg	0.50	[B] < 0.50				[A] < 0.50			[A] < 0.50
Anthracene		M	2790	mg/kg	0.50	[B] < 0.50				[A] < 0.50			[A] < 0.50
Carbazole		M	2790	mg/kg	0.50	[B] < 0.50				[A] < 0.50			[A] < 0.50
Di-N-Butyl Phthalate		N	2790	mg/kg	0.50	[B] < 0.50				[A] < 0.50			[A] < 0.50
Fluoranthene		M	2790	mg/kg	0.50	[B] 0.64				[A] < 0.50			[A] < 0.50
Pyrene		M	2790	mg/kg	0.50	[B] 0.57				[A] < 0.50			[A] < 0.50
Butylbenzyl Phthalate		N	2790	mg/kg	0.50	[B] < 0.50				[A] < 0.50			[A] < 0.50
Benzo[a]anthracene		M	2790	mg/kg	0.50	[B] < 0.50				[A] < 0.50			[A] < 0.50
Chrysene		M	2790	mg/kg	0.50	[B] < 0.50				[A] < 0.50			[A] < 0.50
Bis(2-Ethylhexyl)Phthalate		N	2790	mg/kg	0.50	[B] < 0.50				[A] < 0.50			[A] < 0.50
Di-N-Octyl Phthalate		N	2790	mg/kg	0.50	[B] < 0.50				[A] < 0.50			[A] < 0.50
Benzo[b]fluoranthene		M	2790	mg/kg	0.50	[B] 1.1				[A] < 0.50			[A] < 0.50
Benzo[k]fluoranthene		M	2790	mg/kg	0.50	[B] < 0.50				[A] < 0.50			[A] < 0.50
Benzo[a]pyrene		M	2790	mg/kg	0.50	[B] 0.62				[A] < 0.50			[A] < 0.50
Indeno(1,2,3-c,d)Pyrene		N	2790	mg/kg	0.50	[B] 0.69				[A] < 0.50			[A] < 0.50

Results - Soil

Project: 315531 EAF Meltshop

Client: RSK Geosciences				**Chemtest Job No.:**		24-27128	24-27128	24-27128	24-27128	24-27793	24-27793	24-27793	24-29969
Quotation No.: Q24-35208				**Chemtest Sample ID.:**		1855529	1855532	1855534	1855536	1858447	1858448	1858450	1867652
Order No.: P02150967				Client Sample Ref.:						ES4	ES1	ES3	
				Client Sample ID.:									
				Sample Location:		TP376	TP375	TP374	TP341	BH305	BH303A	BH303A	TP3005
				Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Top Depth (m):		0.25	1.60	1.40	2.30	5.5	0.6	3.0	1.50
				Bottom Depth (m):									
				Date Sampled:		19-Aug-2024	19-Aug-2024	19-Aug-2024	19-Aug-2024				
				Asbestos Lab:		DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**								
Dibenz(a,h)Anthracene		N	2790	mg/kg	0.50	[B] < 0.50				[A] < 0.50			[A] < 0.50
Benzo[g,h,i]perylene		M	2790	mg/kg	0.50	[B] 0.88				[A] < 0.50			[A] < 0.50
Naphthalene		M	2800	mg/kg	0.10	3.5	66	< 0.10	12	< 0.10	0.15	< 0.10	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	2.4	< 0.10	< 0.10	0.65	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	1.0	13	< 0.10	3.1	< 0.10	0.19	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	1.4	7.3	< 0.10	3.1	< 0.10	0.30	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	2.8	9.2	< 0.10	6.9	0.20	1.6	< 0.10	< 0.10
Anthracene		M	2800	mg/kg	0.10	1.2	1.6	< 0.10	0.93	< 0.10	0.49	< 0.10	< 0.10
Fluoranthene		M	2800	mg/kg	0.10	4.4	2.4	< 0.10	1.9	0.24	1.4	< 0.10	< 0.10
Pyrene		M	2800	mg/kg	0.10	3.4	2.5	< 0.10	2.3	0.19	1.0	< 0.10	< 0.10
Benzo[a]anthracene		M	2800	mg/kg	0.10	2.1	< 0.10	< 0.10	0.80	< 0.10	0.28	< 0.10	< 0.10
Chrysene		M	2800	mg/kg	0.10	3.1	< 0.10	< 0.10	2.1	< 0.10	0.25	< 0.10	< 0.10
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	6.5	< 0.10	< 0.10	1.1	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	1.9	< 0.10	< 0.10	0.28	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene		M	2800	mg/kg	0.10	3.8	< 0.10	< 0.10	0.77	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	5.1	< 0.10	< 0.10	0.35	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	1.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	4.8	< 0.10	< 0.10	0.67	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's		N	2800	mg/kg	2.0	49	100	< 2.0	37	< 2.0	5.7	< 2.0	< 2.0

Results - Soil

Project: 315531 EAF Meltshop

Client: RSK Geosciences				**Chemtest Job No.:**		24-29969	24-29969
Quotation No.: Q24-35208				**Chemtest Sample ID.:**		1867654	1867656
Order No.: P02150967				Client Sample Ref.:			
				Client Sample ID.:			
				Sample Location:		TP3005	BH318
				Sample Type:		SOIL	SOIL
				Top Depth (m):		0.70	0.30
				Bottom Depth (m):			
				Date Sampled:			
				Asbestos Lab:		DURHAM	DURHAM
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**		
ACM Type		U	2192		N/A	-	-
Asbestos Identification		U	2192		N/A	No Asbestos Detected	No Asbestos Detected
Asbestos by Gravimetry		U	2192	%	0.001		
Total Asbestos		U	2192	%	0.001		
Moisture		N	2030	%	0.020	3.6	11
Soil Colour		N	2040		N/A	Brown	Brown
Other Material		N	2040		N/A	Stones and Roots	Stones
Soil Texture		N	2040		N/A	Sand	Sand
pH at 20C		M	2010		4.0	[A] 9.9	[A] 9.3
Arsenic		M	2455	mg/kg	0.5	2.8	18
Cadmium		M	2455	mg/kg	0.10	0.11	1.9
Chromium		M	2455	mg/kg	0.5	14	54
Copper		M	2455	mg/kg	0.50	6.0	74
Mercury		M	2455	mg/kg	0.05	< 0.05	0.12
Nickel		M	2455	mg/kg	0.50	5.3	30
Lead		M	2455	mg/kg	0.50	16	500
Selenium		M	2455	mg/kg	0.25	2.5	1.2
Zinc		M	2455	mg/kg	0.50	45	800
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50	< 0.50
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	[A] < 0.05	[A] < 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	[A] < 0.05	[A] < 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	[A] < 0.05	[A] < 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	[A] < 0.10	[A] < 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	[A] < 0.05	[A] < 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	[A] < 0.25	[A] < 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	[A] < 2.0	[A] 2.5
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	[A] < 1.0	[A] < 1.0
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	[A] < 2.0	[A] < 2.0
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	[A] 5.5	[A] 7.3
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	[A] < 10	[A] < 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	[A] 7.7	[A] 10
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	[A] < 10	[A] < 10
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	[A] < 0.05	[A] < 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	[A] < 0.05	[A] < 0.05

Results - Soil

Project: 315531 EAF Meltshop

Client: RSK Geosciences				**Chemtest Job No.:**		24-29969	24-29969
Quotation No.: Q24-35208				**Chemtest Sample ID.:**		1867654	1867656
Order No.: P02150967				Client Sample Ref.:			
				Client Sample ID.:			
				Sample Location:		TP3005	BH318
				Sample Type:		SOIL	SOIL
				Top Depth (m):		0.70	0.30
				Bottom Depth (m):			
				Date Sampled:			
				Asbestos Lab:		DURHAM	DURHAM
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**		
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	[A] < 0.05	[A] < 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	[A] < 0.25	[A] < 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	[A] < 1.0	[A] < 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	[A] < 1.0	[A] < 1.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	[A] 6.0	[A] 8.6
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	[A] 3.5	[A] 6.0
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	[A] < 1.0	[A] 14
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	[A] 9.7	[A] 15
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	[A] < 10	[A] 29
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	[A] < 0.50	[A] < 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	[A] 17	[A] 25
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	[A] 17	[A] 39
Naphthalene		M	2700	mg/kg	0.10		
Acenaphthylene		M	2700	mg/kg	0.10		
Acenaphthene		M	2700	mg/kg	0.10		
Fluorene		M	2700	mg/kg	0.10		
Phenanthrene		M	2700	mg/kg	0.10		
Anthracene		M	2700	mg/kg	0.10		
Fluoranthene		M	2700	mg/kg	0.10		
Pyrene		M	2700	mg/kg	0.10		
Benzo[a]anthracene		M	2700	mg/kg	0.10		
Chrysene		M	2700	mg/kg	0.10		
Benzo[b]fluoranthene		M	2700	mg/kg	0.10		
Benzo[k]fluoranthene		M	2700	mg/kg	0.10		
Benzo[a]pyrene		M	2700	mg/kg	0.10		
Indeno(1,2,3-c,d)Pyrene		M	2700	mg/kg	0.10		
Dibenz(a,h)Anthracene		M	2700	mg/kg	0.10		
Benzo[g,h,i]perylene		M	2700	mg/kg	0.10		
Total Of 16 PAH's		M	2700	mg/kg	2.0		
Dichlorodifluoromethane		U	2760	µg/kg	1.0	[A] < 1.0	
Chloromethane		M	2760	µg/kg	1.0	[A] < 1.0	
Vinyl Chloride		M	2760	µg/kg	1.0	[A] < 1.0	
Bromomethane		M	2760	µg/kg	20	[A] < 20	
Chloroethane		U	2760	µg/kg	2.0	[A] < 2.0	
Trichlorofluoromethane		M	2760	µg/kg	1.0	[A] < 1.0	
1,1-Dichloroethene		M	2760	µg/kg	1.0	[A] < 1.0	

Results - Soil

Project: 315531 EAF Meltshop

Client: RSK Geosciences				**Chemtest Job No.:**		24-29969	24-29969
Quotation No.: Q24-35208				**Chemtest Sample ID.:**		1867654	1867656
Order No.: P02150967				Client Sample Ref.:			
				Client Sample ID.:			
				Sample Location:		TP3005	BH318
				Sample Type:		SOIL	SOIL
				Top Depth (m):		0.70	0.30
				Bottom Depth (m):			
				Date Sampled:			
				Asbestos Lab:		DURHAM	DURHAM
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**		
Dichloromethane		N	2760	µg/kg	50	[A] < 50	
Trans 1,2-Dichloroethene		M	2760	µg/kg	1.0	[A] < 1.0	
1,1-Dichloroethane		M	2760	µg/kg	1.0	[A] < 1.0	
cis 1,2-Dichloroethene		M	2760	µg/kg	1.0	[A] < 1.0	
Bromochloromethane		U	2760	µg/kg	5.0	[A] < 5.0	
Trichloromethane		M	2760	µg/kg	1.0	[A] < 1.0	
1,1,1-Trichloroethane		M	2760	µg/kg	1.0	[A] < 1.0	
Tetrachloromethane		M	2760	µg/kg	1.0	[A] < 1.0	
1,1-Dichloropropene		U	2760	µg/kg	1.0	[A] < 1.0	
Benzene		M	2760	µg/kg	1.0	[A] < 1.0	
1,2-Dichloroethane		M	2760	µg/kg	2.0	[A] < 2.0	
Trichloroethene		N	2760	µg/kg	1.0	[A] < 1.0	
1,2-Dichloropropane		M	2760	µg/kg	1.0	[A] < 1.0	
Dibromomethane		M	2760	µg/kg	1.0	[A] < 1.0	
Bromodichloromethane		M	2760	µg/kg	5.0	[A] < 5.0	
cis-1,3-Dichloropropene		N	2760	µg/kg	10	[A] < 10	
Toluene		M	2760	µg/kg	1.0	[A] < 1.0	
Trans-1,3-Dichloropropene		N	2760	µg/kg	10	[A] < 10	
1,1,2-Trichloroethane		M	2760	µg/kg	10	[A] < 10	
Tetrachloroethene		M	2760	µg/kg	1.0	[A] < 1.0	
1,3-Dichloropropane		U	2760	µg/kg	2.0	[A] < 2.0	
Dibromochloromethane		U	2760	µg/kg	10	[A] < 10	
1,2-Dibromoethane		M	2760	µg/kg	5.0	[A] < 5.0	
Chlorobenzene		M	2760	µg/kg	1.0	[A] < 1.0	
1,1,1,2-Tetrachloroethane		M	2760	µg/kg	2.0	[A] < 2.0	
Ethylbenzene		M	2760	µg/kg	1.0	[A] < 1.0	
m & p-Xylene		M	2760	µg/kg	1.0	[A] < 1.0	
o-Xylene		M	2760	µg/kg	1.0	[A] < 1.0	
Styrene		M	2760	µg/kg	1.0	[A] < 1.0	
Tribromomethane		U	2760	µg/kg	1.0	[A] < 1.0	
Isopropylbenzene		M	2760	µg/kg	1.0	[A] < 1.0	
Bromobenzene		M	2760	µg/kg	1.0	[A] < 1.0	
1,2,3-Trichloropropane		N	2760	µg/kg	50	[A] < 50	
N-Propylbenzene		U	2760	µg/kg	1.0	[A] < 1.0	
2-Chlorotoluene		M	2760	µg/kg	1.0	[A] < 1.0	
1,3,5-Trimethylbenzene		M	2760	µg/kg	1.0	[A] < 1.0	

Results - Soil

Project: 315531 EAF Meltshop

Client: RSK Geosciences				**Chemtest Job No.:**		24-29969	24-29969
Quotation No.: Q24-35208				**Chemtest Sample ID.:**		1867654	1867656
Order No.: P02150967				Client Sample Ref.:			
				Client Sample ID.:			
				Sample Location:		TP3005	BH318
				Sample Type:		SOIL	SOIL
				Top Depth (m):		0.70	0.30
				Bottom Depth (m):			
				Date Sampled:			
				Asbestos Lab:		DURHAM	DURHAM
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**		
4-Chlorotoluene		U	2760	µg/kg	1.0	[A] < 1.0	
Tert-Butylbenzene		U	2760	µg/kg	1.0	[A] < 1.0	
1,2,4-Trimethylbenzene		M	2760	µg/kg	1.0	[A] < 1.0	
Sec-Butylbenzene		U	2760	µg/kg	1.0	[A] < 1.0	
1,3-Dichlorobenzene		M	2760	µg/kg	1.0	[A] < 1.0	
4-Isopropyltoluene		U	2760	µg/kg	1.0	[A] < 1.0	
1,4-Dichlorobenzene		M	2760	µg/kg	1.0	[A] < 1.0	
N-Butylbenzene		U	2760	µg/kg	1.0	[A] < 1.0	
1,2-Dichlorobenzene		M	2760	µg/kg	1.0	[A] < 1.0	
1,2-Dibromo-3-Chloropropane		U	2760	µg/kg	50	[A] < 50	
1,2,4-Trichlorobenzene		M	2760	µg/kg	1.0	[A] < 1.0	
Hexachlorobutadiene		N	2760	µg/kg	1.0	[A] < 1.0	
1,2,3-Trichlorobenzene		U	2760	µg/kg	2.0	[A] < 2.0	
Methyl Tert-Butyl Ether		M	2760	µg/kg	1.0	[A] < 1.0	
N-Nitrosodimethylamine		M	2790	mg/kg	0.50	[A] < 0.50	
Phenol		M	2790	mg/kg	0.50	[A] < 0.50	
2-Chlorophenol		N	2790	mg/kg	0.50	[A] < 0.50	
Bis-(2-Chloroethyl)Ether		M	2790	mg/kg	0.50	[A] < 0.50	
1,3-Dichlorobenzene		M	2790	mg/kg	0.50	[A] < 0.50	
1,4-Dichlorobenzene		N	2790	mg/kg	0.50	[A] < 0.50	
1,2-Dichlorobenzene		M	2790	mg/kg	0.50	[A] < 0.50	
2-Methylphenol		M	2790	mg/kg	0.50	[A] < 0.50	
Bis(2-Chloroisopropyl)Ether		M	2790	mg/kg	0.50	[A] < 0.50	
Hexachloroethane		N	2790	mg/kg	0.50	[A] < 0.50	
N-Nitrosodi-n-propylamine		M	2790	mg/kg	0.50	[A] < 0.50	
4-Methylphenol		M	2790	mg/kg	0.50	[A] < 0.50	
Nitrobenzene		N	2790	mg/kg	0.50	[A] < 0.50	
Isophorone		M	2790	mg/kg	0.50	[A] < 0.50	
2-Nitrophenol		N	2790	mg/kg	0.50	[A] < 0.50	
2,4-Dimethylphenol		N	2790	mg/kg	0.50	[A] < 0.50	
Bis(2-Chloroethoxy)Methane		M	2790	mg/kg	0.50	[A] < 0.50	
2,4-Dichlorophenol		N	2790	mg/kg	0.50	[A] < 0.50	
1,2,4-Trichlorobenzene		M	2790	mg/kg	0.50	[A] < 0.50	
Naphthalene		M	2790	mg/kg	0.50	[A] < 0.50	
4-Chloroaniline		N	2790	mg/kg	0.50	[A] < 0.50	
Hexachlorobutadiene		M	2790	mg/kg	0.50	[A] < 0.50	

Results - Soil

Project: 315531 EAF Meltshop

Client: RSK Geosciences				**Chemtest Job No.:**		24-29969	24-29969
Quotation No.: Q24-35208				**Chemtest Sample ID.:**		1867654	1867656
Order No.: P02150967				Client Sample Ref.:			
				Client Sample ID.:			
				Sample Location:		TP3005	BH318
				Sample Type:		SOIL	SOIL
				Top Depth (m):		0.70	0.30
				Bottom Depth (m):			
				Date Sampled:			
				Asbestos Lab:		DURHAM	DURHAM
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**		
4-Chloro-3-Methylphenol		N	2790	mg/kg	0.50	[A] < 0.50	
2-Methylnaphthalene		M	2790	mg/kg	0.50	[A] < 0.50	
4-Nitrophenol		N	2790	mg/kg	0.50	[A] < 0.50	
2,4,6-Trichlorophenol		N	2790	mg/kg	0.50	[A] < 0.50	
2,4,5-Trichlorophenol		N	2790	mg/kg	0.50	[A] < 0.50	
2-Chloronaphthalene		M	2790	mg/kg	0.50	[A] < 0.50	
2-Nitroaniline		N	2790	mg/kg	0.50	[A] < 0.50	
Acenaphthylene		M	2790	mg/kg	0.50	[A] < 0.50	
Dimethylphthalate		M	2790	mg/kg	0.50	[A] < 0.50	
2,6-Dinitrotoluene		N	2790	mg/kg	0.50	[A] < 0.50	
Acenaphthene		M	2790	mg/kg	0.50	[A] < 0.50	
3-Nitroaniline		N	2790	mg/kg	0.50	[A] < 0.50	
Dibenzofuran		M	2790	mg/kg	0.50	[A] < 0.50	
4-Chlorophenylphenylether		M	2790	mg/kg	0.50	[A] < 0.50	
2,4-Dinitrotoluene		N	2790	mg/kg	0.50	[A] < 0.50	
Fluorene		M	2790	mg/kg	0.50	[A] < 0.50	
Diethyl Phthalate		M	2790	mg/kg	0.50	[A] < 0.50	
4-Nitroaniline		N	2790	mg/kg	0.50	[A] < 0.50	
Azobenzene		M	2790	mg/kg	0.50	[A] < 0.50	
4-Bromophenylphenyl Ether		M	2790	mg/kg	0.50	[A] < 0.50	
Hexachlorobenzene		M	2790	mg/kg	0.50	[A] < 0.50	
Phenanthrene		M	2790	mg/kg	0.50	[A] 0.70	
Anthracene		M	2790	mg/kg	0.50	[A] < 0.50	
Carbazole		M	2790	mg/kg	0.50	[A] < 0.50	
Di-N-Butyl Phthalate		N	2790	mg/kg	0.50	[A] < 0.50	
Fluoranthene		M	2790	mg/kg	0.50	[A] 1.4	
Pyrene		M	2790	mg/kg	0.50	[A] 0.96	
Butylbenzyl Phthalate		N	2790	mg/kg	0.50	[A] < 0.50	
Benzo[a]anthracene		M	2790	mg/kg	0.50	[A] 0.82	
Chrysene		M	2790	mg/kg	0.50	[A] 0.81	
Bis(2-Ethylhexyl)Phthalate		N	2790	mg/kg	0.50	[A] < 0.50	
Di-N-Octyl Phthalate		N	2790	mg/kg	0.50	[A] < 0.50	
Benzo[b]fluoranthene		M	2790	mg/kg	0.50	[A] 1.1	
Benzo[k]fluoranthene		M	2790	mg/kg	0.50	[A] < 0.50	
Benzo[a]pyrene		M	2790	mg/kg	0.50	[A] 0.63	
Indeno(1,2,3-c,d)Pyrene		N	2790	mg/kg	0.50	[A] < 0.50	

Results - Soil

Project: 315531 EAF Meltshop

Client: RSK Geosciences				**Chemtest Job No.:**		24-29969	24-29969
Quotation No.: Q24-35208				**Chemtest Sample ID.:**		1867654	1867656
Order No.: P02150967				Client Sample Ref.:			
				Client Sample ID.:			
				Sample Location:		TP3005	BH318
				Sample Type:		SOIL	SOIL
				Top Depth (m):		0.70	0.30
				Bottom Depth (m):			
				Date Sampled:			
				Asbestos Lab:		DURHAM	DURHAM
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**		
Dibenz(a,h)Anthracene		N	2790	mg/kg	0.50	[A] < 0.50	
Benzo[g,h,i]perylene		M	2790	mg/kg	0.50	[A] < 0.50	
Naphthalene		M	2800	mg/kg	0.10	< 0.10	0.80
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	0.12
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	0.14
Phenanthrene		M	2800	mg/kg	0.10	< 0.10	1.5
Anthracene		M	2800	mg/kg	0.10	< 0.10	0.29
Fluoranthene		M	2800	mg/kg	0.10	< 0.10	1.9
Pyrene		M	2800	mg/kg	0.10	< 0.10	1.2
Benzo[a]anthracene		M	2800	mg/kg	0.10	< 0.10	1.2
Chrysene		M	2800	mg/kg	0.10	< 0.10	1.7
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	< 0.10	2.1
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	< 0.10	0.49
Benzo[a]pyrene		M	2800	mg/kg	0.10	< 0.10	0.99
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	< 0.10	0.83
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	0.31
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	< 0.10	0.90
Total Of 16 PAH's		N	2800	mg/kg	2.0	< 2.0	15

Deviations

In accordance with UKAS Policy on Deviating Samples TPS 63. Chemtest have a procedure to ensure 'upon receipt of each sample a competent laboratory shall assess whether the sample is suitable with regard to the requested test(s)'. This policy and the respective holding times applied, can be supplied upon request.The reason a sample is declared as deviating is detailed below. Where applicable the analysis remains UKAS/MCERTs accredited but the results may be compromised.

Sample:	Sample Ref:	Sample ID:	Sample Location:	Sampled Date:	Deviation Code(s):	Containers Received:
1819250			BH323	##########	B	Amber Glass 250ml
1819250			BH323	##########	B	Amber Glass 60ml
1819250			BH323	##########	B	Plastic Tub 500g
1819263			BH322	##########	B	Amber Glass 250ml
1819263			BH322	##########	B	Amber Glass 60ml
1819263			BH322	##########	B	Plastic Tub 1000g
1819264			BH322	##########	B	Amber Glass 250ml
1819264			BH322	##########	B	Amber Glass 60ml
1819264			BH322	##########	B	Plastic Tub 1000g
1819265			BH322	##########	B	Amber Glass 250ml
1819265			BH322	##########	B	Amber Glass 60ml
1819265			BH322	##########	B	Plastic Tub 1000g
1819266			BH322	##########	B	Amber Glass 250ml
1819266			BH322	##########	B	Amber Glass 60ml
1819266			BH322	##########	B	Plastic Tub 1000g
1819267			BH322	##########	B	Amber Glass 250ml
1819267			BH322	##########	B	Amber Glass 60ml
1819267			BH322	##########	B	Plastic Tub 1000g
1819268			BH322	##########	B	Amber Glass 250ml
1819268			BH322	##########	B	Amber Glass 60ml
1819268			BH322	##########	B	Plastic Tub 1000g
1825240			BH319	19-Jun-2024	B	Amber Glass 250ml
1825240			BH319	19-Jun-2024	B	Amber Glass 60ml
1825240			BH319	19-Jun-2024	B	Plastic Tub 500g

Deviations

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Sample:	Sample Ref:	Sample ID:	Sample Location:	Sampled Date:	Deviation Code(s):	Containers Received:
1825241			BH319	19-Jun-2024	B	Amber Glass 250ml
1825241			BH319	19-Jun-2024	B	Amber Glass 60ml
1825241			BH319	19-Jun-2024	B	Plastic Tub 500g
1825242			BH319	19-Jun-2024	B	Amber Glass 250ml
1825242			BH319	19-Jun-2024	B	Amber Glass 60ml
1825242			BH319	19-Jun-2024	B	Plastic Tub 500g
1825243			BH319	19-Jun-2024	B	Amber Glass 250ml
1825243			BH319	19-Jun-2024	B	Amber Glass 60ml
1825243			BH319	19-Jun-2024	B	Plastic Tub 500g
1825244			BH319	19-Jun-2024	B	Amber Glass 250ml
1825244			BH319	19-Jun-2024	B	Amber Glass 60ml
1825244			BH319	19-Jun-2024	B	Plastic Tub 500g
1825245			BH320	19-Jun-2024	B	Amber Glass 250ml
1825245			BH320	19-Jun-2024	B	Amber Glass 60ml
1825245			BH320	19-Jun-2024	B	Plastic Tub 1000g
1825246			BH320	19-Jun-2024	B	Amber Glass 250ml
1825246			BH320	19-Jun-2024	B	Amber Glass 60ml
1825246			BH320	19-Jun-2024	B	Plastic Tub 1000g
1825247			BH320	19-Jun-2024	B	Amber Glass 250ml
1825247			BH320	19-Jun-2024	B	Amber Glass 60ml
1825247			BH320	19-Jun-2024	B	Plastic Tub 1000g
1848064			TP302		A	Amber Glass 250ml
1848064			TP302		A	Amber Glass 60ml
1848064			TP302		A	Plastic Tub 500g

Deviations

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Sample:	Sample Ref:	Sample ID:	Sample Location:	Sampled Date:	Deviation Code(s):	Containers Received:
1848065			TP303		A	Amber Glass 250ml
1848065			TP303		A	Amber Glass 60ml
1848065			TP303		A	Plastic Tub 500g
1848066			TP387		A	Amber Glass 250ml
1848066			TP387		A	Amber Glass 60ml
1848066			TP387		A	Plastic Tub 500g
1849334			TP391		A	Amber Glass 250ml
1849334			TP391		A	Amber Glass 60ml
1849334			TP391		A	Plastic Tub 500g
1849335			TP391		A	Amber Glass 250ml
1849335			TP391		A	Amber Glass 60ml
1849335			TP391		A	Plastic Tub 500g
1849337			TP345		A	Amber Glass 250ml
1849337			TP345		A	Amber Glass 60ml
1849337			TP345		A	Plastic Tub 500g
1849340			TP392		A	Amber Glass 250ml
1849340			TP392		A	Amber Glass 60ml
1849340			TP392		A	Plastic Tub 500g
1849341			TP392		A	Amber Glass 250ml
1849341			TP392		A	Amber Glass 60ml
1849341			TP392		A	Plastic Tub 500g
1849343			TP393		A	Amber Glass 250ml
1849343			TP393		A	Amber Glass 60ml
1849343			TP393		A	Plastic Tub 500g

Deviations

In accordance with UKAS Policy on Deviating Samples TPS 63. Chemtest have a procedure to ensure 'upon receipt of each sample a competent laboratory shall assess whether the sample is suitable with regard to the requested test(s)'. This policy and the respective holding times applied, can be supplied upon request.The reason a sample is declared as deviating is detailed below. Where applicable the analysis remains UKAS/MCERTs accredited but the results may be compromised.

Sample:	Sample Ref:	Sample ID:	Sample Location:	Sampled Date:	Deviation Code(s):	Containers Received:
1849345			TP393		A	Amber Glass 250ml
1849345			TP393		A	Amber Glass 60ml
1849345			TP393		A	Plastic Tub 500g
1850277			TP309		A	Amber Glass 250ml
1850277			TP309		A	Amber Glass 60ml
1850277			TP309		A	Plastic Tub 1000g
1850280			TP311		A	Amber Glass 250ml
1850280			TP311		A	Amber Glass 60ml
1850280			TP311		A	Plastic Tub 1000g
1850285			TP325		A	Amber Glass 250ml
1850285			TP325		A	Amber Glass 60ml
1850285			TP325		A	Plastic Tub 500g
1850287			TP342		A	Amber Glass 250ml
1850287			TP342		A	Amber Glass 60ml
1850287			TP342		A	Plastic Tub 1000g
1850290			TP342		A	Amber Glass 250ml
1850290			TP342		A	Amber Glass 60ml
1850290			TP342		A	Plastic Tub 1000g
1850293			TP388		A	Amber Glass 250ml
1850293			TP388		A	Amber Glass 60ml
1850293			TP388		A	Plastic Tub 500g
1852980	1		BH326	##########	B	Amber Glass 250ml
1852980	1		BH326	##########	B	Amber Glass 60ml
1852980	1		BH326	##########	B	Plastic Tub 1000g

Deviations

In accordance with UKAS Policy on Deviating Samples TPS 63. Chemtest have a procedure to ensure 'upon receipt of each sample a competent laboratory shall assess whether the sample is suitable with regard to the requested test(s)'. This policy and the respective holding times applied, can be supplied upon request.The reason a sample is declared as deviating is detailed below. Where applicable the analysis remains UKAS/MCERTs accredited but the results may be compromised.

Sample:	Sample Ref:	Sample ID:	Sample Location:	Sampled Date:	Deviation Code(s):	Containers Received:
1852981	1		BH327	##########	B	Amber Glass 250ml
1852981	1		BH327	##########	B	Amber Glass 60ml
1852981	1		BH327	##########	B	Plastic Tub 1000g
1852982	2		BH327	##########	B	Amber Glass 250ml
1852982	2		BH327	##########	B	Amber Glass 60ml
1852982	2		BH327	##########	B	Plastic Tub 1000g
1852984	1		TP3001	##########	B	Amber Glass 250ml
1852984	1		TP3001	##########	B	Amber Glass 60ml
1852984	1		TP3001	##########	B	Plastic Tub 500g
1852987	1		TP399	##########	B	Amber Glass 250ml
1852987	1		TP399	##########	B	Amber Glass 60ml
1852987	1		TP399	##########	B	Plastic Tub 500g
1852991	1		TP397	##########	B	Amber Glass 250ml
1852991	1		TP397	##########	B	Amber Glass 60ml
1852991	1		TP397	##########	B	Plastic Tub 1000g
1855529			TP376	##########	B	Amber Glass 250ml
1855529			TP376	##########	B	Amber Glass 60ml
1855529			TP376	##########	B	Plastic Tub 500g
1855532			TP375	##########	B	Amber Glass 250ml
1855532			TP375	##########	B	Amber Glass 60ml
1855532			TP375	##########	B	Plastic Tub 500g
1855534			TP374	##########	B	Amber Glass 250ml
1855534			TP374	##########	B	Amber Glass 60ml
1855534			TP374	##########	B	Plastic Tub 500g

Deviations

In accordance with UKAS Policy on Deviating Samples TPS 63. Chemtest have a procedure to ensure 'upon receipt of each sample a competent laboratory shall assess whether the sample is suitable with regard to the requested test(s)'. This policy and the respective holding times applied, can be supplied upon request.The reason a sample is declared as deviating is detailed below. Where applicable the analysis remains UKAS/MCERTs accredited but the results may be compromised.

Sample:	Sample Ref:	Sample ID:	Sample Location:	Sampled Date:	Deviation Code(s):	Containers Received:
1855536			TP341	##########	B	Amber Glass 250ml
1855536			TP341	##########	B	Amber Glass 60ml
1855536			TP341	##########	B	Plastic Tub 500g
1858447	ES4		BH305		A	Amber Glass 250ml
1858447	ES4		BH305		A	Amber Glass 60ml
1858447	ES4		BH305		A	Plastic Tub 1000g
1858448	ES1		BH303A		A	Amber Glass 250ml
1858448	ES1		BH303A		A	Amber Glass 60ml
1858448	ES1		BH303A		A	Plastic Tub 1000g
1858450	ES3		BH303A		A	Amber Glass 250ml
1858450	ES3		BH303A		A	Amber Glass 60ml
1858450	ES3		BH303A		A	Plastic Tub 1000g
1867652			TP3005		A	Amber Glass 250ml
1867652			TP3005		A	Amber Glass 60ml
1867652			TP3005		A	Plastic Tub 1000g
1867654			TP3005		A	Amber Glass 250ml
1867654			TP3005		A	Amber Glass 60ml
1867654			TP3005		A	Plastic Tub 1000g
1867656			BH318		A	Amber Glass 250ml
1867656			BH318		A	Amber Glass 60ml
1867656			BH318		A	Plastic Tub 1000g

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
2010	pH Value of Soils	pH at 20°C	pH Meter	
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <30°C.	
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930	
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES	
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry	
2455	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.	
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.	
2690	EPH A/A Split	Aliphatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40 Aromatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40	Acetone/Heptane extraction / GCxGC FID detection	
2700	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-FID	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenz[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Dichloromethane extraction / GC-FID (GC-FID detection is non-selective and can be subject to interference from co-eluting compounds)	
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.	
2780	VPH A/A Split	Aliphatics: >C5–C6, >C6–C7,>C7–C8,>C8-C10 Aromatics: >C5–C7,>C7-C8,>C8–C10	Water extraction / Headspace GCxGC FID detection	
2790	Semi-Volatile Organic Compounds (SVOCs) in Soils by GC-MS	Semi-volatile organic compounds(cf. USEPA Method 8270)	Acetone/Hexane extraction / GC-MS	
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	Acenaphthene*; Acenaphthylene; Anthracene*; Benzo[a]Anthracene*; Benzo[a]Pyrene*; Benzo[b]Fluoranthene*; Benzo[ghi]Perylene*; Benzo[k]Fluoranthene; Chrysene*; Dibenz[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS	
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and TrimethylphenolsNote: chlorophenols are excluded.	60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical detection.	

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
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<	"less than"
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SOP	Standard operating procedure
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None of the results in this report have been recovery corrected.
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For all other tests the samples were dried at ≤ 30°C prior to analysis.
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C - Sample not received in appropriate containers
D - Broken Container
E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt.
All water samples will be retained for 14 days from the date of receipt.
Charges may apply to extended sample storage.

Water Sample Category Key for Accreditation

DW - Drinking Water
GW - Ground Water
LE - Land Leachate
NA - Not Applicable

Report Information

PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

HWOL Acronym System

HS - Headspace analysis
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent
CU - Clean-up – e.g. by Florisil, silica gel
1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

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customerservices@chemtest.com

APPENDIX G
LABORATORY CERTIFICATES FOR GROUNDWATER WATER ANALYSIS

Eurofins Chemtest Ltd
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

Final Report

Report No.:	24-25102-1
Initial Date of Issue:	13-Aug-2024
Re-Issue Details:	
Client	RSK Geosciences
Client Address:	Battle Gate Road Boxworth Cambridge CB23 4NN
Contact(s):	James Bloore
Project	315531 Port Talbot

Quotation No.:	Q24-35208	**Date Received:**	06-Aug-2024
Order No.:	P02150967	**Date Instructed:**	06-Aug-2024
No. of Samples:	3		
Turnaround (Wkdays):	5	**Results Due:**	12-Aug-2024
Date Approved:	13-Aug-2024		

Approved By:



Details: David Smith, Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Water

Project: 315531 Port Talbot

Client: RSK Geosciences			**Chemtest Job No.:**			24-25102	24-25102	24-25102
Quotation No.: Q24-35208			**Chemtest Sample ID.:**			1846695	1846696	1846697
				Sample Location:		BH315	BH301	BH324
				Sample Type:		WATER	WATER	WATER
				Sample Sub Type:				
				Top Depth (m):		1.58	1.55	1.42
				Date Sampled:		02-Aug-2024	02-Aug-2024	02-Aug-2024
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**			
pH at 20C		U	1010		4.0	8.4	8.5	8.6
Sulphate		U	1220	mg/l	1.0	63	34	84
Cyanide (Total)		U	1300	mg/l	0.050	< 0.050	< 0.050	< 0.050
Arsenic (Dissolved)		U	1455	µg/l	0.20	10	27	37
Boron (Dissolved)		U	1455	µg/l	10.0	140	83	320
Cadmium (Dissolved)		U	1455	µg/l	0.11	< 0.11	< 0.11	< 0.11
Chromium (Dissolved)		U	1455	µg/l	0.50	< 0.50	< 0.50	0.67
Copper (Dissolved)		U	1455	µg/l	0.50	0.63	0.94	1.2
Mercury (Dissolved)		U	1455	µg/l	0.05	< 0.05	< 0.05	0.09
Nickel (Dissolved)		U	1455	µg/l	0.50	< 0.50	< 0.50	1.2
Lead (Dissolved)		U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50
Zinc (Dissolved)		U	1455	µg/l	2.5	5.3	5.8	< 2.5
Total TPH >C6-C40	EH_1D_Total	U	1670	µg/l	10	< 10	< 10	< 10
Naphthalene		U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene		U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Acenaphthene		U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Fluorene		U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Phenanthrene		U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Anthracene		U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Fluoranthene		U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Pyrene		U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Benzo[a]anthracene		U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Chrysene		U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene		U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene		U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene		U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene		U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene		U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene		U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's		U	1800	µg/l	2.0	< 2.0	< 2.0	< 2.0
Total Phenols		U	1920	mg/l	0.030	< 0.030	< 0.030	< 0.030

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
1010	pH Value of Waters	pH at 20°C	pH Meter	RE PW TE TS PL DW GW
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.	RE PW PL LE DW GW
1300	Cyanides & Thiocyanate in Waters	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Continuous Flow Analysis.	GW
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).	RE PW PL SW DW GW
1670	Total Petroleum Hydrocarbons (TPH) in Waters by GC-FID	TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO	Pentane extraction / GC FID detection	
1675	TPH Aliphatic/Aromatic split in Waters by GC-FID(cf. Texas Method 1006 / TPH CWG)	Aliphatics: >C5–C6, >C6–C8, >C8– C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35– C44Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44	Pentane extraction / GCxGC FID detection	
1700	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Waters by GC-FID	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenz[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Dichloromethane extraction / GC-FID (GC-FID detection is non-selective and can be subject to interference from co-eluting compounds)	PL GW
1800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Waters by GC-MS	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenz[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Pentane extraction / GCMS detection	PL GW
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.	PL GW

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MC - Mathematical Clean Up
FC - Florisil Clean Up

HWOL Acronym System

HS - Headspace analysis
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent
CU - Clean-up – e.g. by Florisil, silica gel
1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

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Eurofins Chemtest Ltd
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

Final Report

Report No.:	24-25105-1
Initial Date of Issue:	13-Aug-2024
Re-Issue Details:	
Client	RSK Geosciences
Client Address:	Battle Gate Road Boxworth Cambridge CB23 4NN
Contact(s):	James Bloore
Project	315531 Port Talbot

Quotation No.:	Q24-35208	**Date Received:**	06-Aug-2024
Order No.:	P02150967	**Date Instructed:**	06-Aug-2024
No. of Samples:	3		
Turnaround (Wkdays):	5	**Results Due:**	12-Aug-2024
Date Approved:	13-Aug-2024		

Approved By:



Details: David Smith, Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Water

Project: 315531 Port Talbot

Client: RSK Geosciences			**Chemtest Job No.:**			24-25105	24-25105	24-25105
Quotation No.: Q24-35208			**Chemtest Sample ID.:**			1846705	1846706	1846707
				Sample Location:		BH331	BH322	BH317
				Sample Type:		WATER	WATER	WATER
				Sample Sub Type:				
				Top Depth (m):		3.82	3.50	1.37
				Date Sampled:		02-Aug-2024	02-Aug-2024	02-Aug-2024
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**			
pH at 20C		U	1010		4.0	8.1	8.0	7.7
Sulphate		U	1220	mg/l	1.0	< 1.0	< 1.0	< 1.0
Cyanide (Total)		U	1300	mg/l	0.050	< 0.050	< 0.050	< 0.050
Arsenic (Dissolved)		U	1455	µg/l	0.20	6.7	3.3	6.6
Boron (Dissolved)		U	1455	µg/l	10.0	300	300	300
Cadmium (Dissolved)		U	1455	µg/l	0.11	< 0.11	< 0.11	< 0.11
Chromium (Dissolved)		U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50
Copper (Dissolved)		U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50
Mercury (Dissolved)		U	1455	µg/l	0.05	< 0.05	< 0.05	< 0.05
Nickel (Dissolved)		U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50
Lead (Dissolved)		U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50
Zinc (Dissolved)		U	1455	µg/l	2.5	7.2	5.0	7.0
Total TPH >C6-C40	EH_1D_Total	U	1670	µg/l	10	< 10	< 10	< 10
Naphthalene		U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene		U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
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Anthracene		U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Fluoranthene		U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Pyrene		U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Benzo[a]anthracene		U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Chrysene		U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene		U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
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Benzo[a]pyrene		U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene		U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene		U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene		U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's		U	1800	µg/l	2.0	< 2.0	< 2.0	< 2.0
Total Phenols		U	1920	mg/l	0.030	< 0.030	< 0.030	< 0.030

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1675	TPH Aliphatic/Aromatic split in Waters by GC-FID(cf. Texas Method 1006 / TPH CWG)	Aliphatics: >C5–C6, >C6–C8, >C8– C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35– C44Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44	Pentane extraction / GCxGC FID detection	
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1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.	PL GW

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2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

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APPENDIX H GAC HUMAN HEALTH

Generic assessment criteria for human health: commercial scenario

Background

RSK's generic assessment criteria (GAC) were initially prepared following the publication by the Environment Agency (EA) of soil guideline value (SGV) and toxicological (TOX) reports, and associated publications in 2009[1]. RSK GAC were updated following the publication of GAC by LQM/CIEH in 2009[2]. RSK GAC are periodically revised when updated information on toxicological, land use or receptor parameters is published.

Updates to the RSK GAC

In 2014, the publication of Category 4 Screening Levels (C4SL)[3,4], as part of the Defra-funded research project SP1010, included modifications to certain exposure assumptions documented within EA Science Report SC050221/SR3 (herein after referred to as SR3)[5] used in the generation of SGVs.

C4SL were initially published for six substances (cadmium, arsenic, benzene, benzo(a)pyrene, chromium VI and lead) for a sandy loam soil type with 6% soil organic matter, based on a low level of toxicological concern (LLTC; see Section 2.3 of research project report SP1010[3]). Further C4SL were published in 2021 for vinyl chloride, tetrachloroethene (PCE) and trichloroethene (TCE). Where a C4SL has been published, the RSK GAC duplicates the C4SL using all input parameters within the SP1010 final project report[3] and associated chemical specific reports[6], and adopts them as GAC for these substances. Due to the use of decimal places rather than significant figures applied to the Contaminated Land Exposure Assessment (CLEA) tool outputs, the GAC presented may be marginally differently to the C4SL values, however any differences between the values are minimal and would not equate to an unacceptable risk.

For all other substances the only C4SL exposure modification relevant to a commercial end use are daily inhalation rates.

The RSK GAC have also been revised with updated toxicology published by LQM/CIEH in 2015[7] or by the USEPA[14], where a C4SL has not been published.

RSK GAC derivation for metals and organic compounds

Model selection

Soil assessment criteria (SAC) were calculated using the CLEA tool v1.071, supporting EA guidance[5,8,9] and revised exposure scenarios published for the C4SL[3]. The SAC are also termed GAC.

Pathway selection

In accordance with SR3[5] the commercial scenario considers risks to a female worker who works from the age of 16 to 65 years. It should be noted that this end use is not suitable for a workplace nursery but may be appropriate for a sports centre or shopping centre where children are present. In accordance with Box 3.5, SR3[5] the pathways considered for production of the SAC in the commercial scenario are

- direct soil and dust ingestion

- dermal contact with soil both indoors and outdoors
- indoor air inhalation from soil and vapour and outdoor inhalation of soil and vapour.

With respect to volatilisation, the CLEA model assumes a simple linear partitioning of a chemical in the soil between the sorbed, dissolved and vapour phase[9]. The upper boundaries of this partitioning are represented by the maximum aqueous solubility and pure saturated vapour concentration of the chemical. The CLEA model estimates saturated soil concentrations where these limits are reached[9]. The CLEA software uses a traffic light system to identify when individual and/or combined assessment criteria exceed the lower of either the aqueous- or vapour-based soil saturation limits. Model output cells are flagged red where the saturated soil concentration has been exceeded and the contribution of the indoor and outdoor vapour pathway to total exposure is greater than 10%. In this case, further consideration of the following is required[9]:

- Free phase contamination may be present.
- Exposure from the vapour pathways will be over-predicted by the model, as in reality the vapour phase concentration will not increase at concentrations above saturation limits
- Where the vapour pathway contribution is greater than 90%, it is unlikely the relevant health criteria value (HCV) will be exceeded at soil concentrations at least a factor of ten higher than the relevant HCV.

Where the vapour pathway is the predominant pathway (contributes greater than 90% of exposure) or the only exposure route considered and the cell is highlighted red (SAC exceeds saturation limit), the risk based on the assumed conceptual model is likely to be negligible as the vapour risk is assumed to be tolerable at maximum possible soil concentrations. In such circumstances, the vapour pathway exposure should be considered based on the presence of free phase or non-aqueous phase liquid sources and the measured concentrations of volatile organic compounds (VOC) in the vapour phase. Screening could be considered based on setting the SAC as the modelled soil saturation limits. However, as stated within the CLEA handbook[9], this is likely to not be practical in many cases because of the very low saturation limits and, in any case, is highly conservative.

It should also be noted that for mixtures of compounds, free phase may be present where soil (or groundwater) concentrations are well below saturation limits for individual compounds.

Where the vapour pathway is only one of the exposure pathways considered, an additional approach can then be utilised as detailed within Section 4.12 of the CLEA model handbook[9], which explains how to calculate an effective assessment criterion manually.

SR3[5] states that, as a general rule of thumb, it is recognised that estimating vapour phase concentrations from dissolved and sorbed phase contamination by petroleum hydrocarbons are at least a factor of ten higher than those likely to be measured on-site. RSK has therefore applied an empirical subsurface to indoor air correction factor of 10 into the CLEA model chemical database for all petroleum hydrocarbon fractions (including BTEX, trimethylbenzenes and the polycyclic aromatic hydrocarbons (PAH) naphthalene, acenaphthene and acenaphthylene) to reduce this conservatism.

Input selection

The most up-to-date published chemical and toxicological data was obtained from EA Report SC050021/SR7[10], the EA TOX[1] reports, the C4SL SP1010 project report and associated chemical specific reports[3,6], the 2015 LQM/CIEH report[7] or the USEPA IRIS database[14]. Where a LLTC[3,6] has been published for a substance, RSK has used these input parameters to derive the RSK GAC. Toxicological and specific chemical parameters for 1,2,4-trimethylbenzene, barium, methyl tertiary-butyl ether (MTBE), 1,1,2-trichlorethane, 1,1-dichloroethene, 1,2-dichloropropane, 2-chloronaphthalene, chloroethane, chloromethane, cis 1,2-dichloroethene, dichloromethane, hexachloroethane and trans 1,2-dichloroethene were obtained from the CL:AIRE Soil Generic Assessment Criteria report[11].

For TPH, aromatic hydrocarbons C_5–C_8 were not modelled, as this range comprises benzene (>EC5-EC7) and toluene (>EC7-EC8), which are modelled separately.

Physical parameters

For the commercial end use, the CLEA default pre-1970s three-storey office building was used. SR3[5] notes this commercial building type to be the most conservative in terms of protection from vapour intrusion. The default input building parameters presented in Table 3.10 of SR3[5] have been used.

The parameters for a sandy loam soil type were used in line with Table 4.4 of SR3[5]. This includes a value of 6% for the percentage of soil organic matter (SOM) within the soil. In RSK's experience, this is rather high for many sites. To avoid undertaking site-specific risk assessments for this SOM, RSK has produced an additional set of GAC for SOM of 1% and 2.5% for all substances using the CLEA tool.

Summary of modifications to the default CLEA SR3[5] input parameters for a commercial land use

In summary, the RSK commercial GAC were produced using the default input parameters for soil properties, the air dispersion model, building properties and the vapour model detailed in SR3[5]. Modifications to the default SR3[5] exposure scenarios based on the C4SL exposure scenarios[3] are presented in Table 2 below. The sole modification to the default commercial input parameters is the updated inhalation rate.

The final selected GAC are presented by pathway in Table 3 with the combined GAC in Table 4.

Figure 1: Conceptual model for CLEA commercial scenario

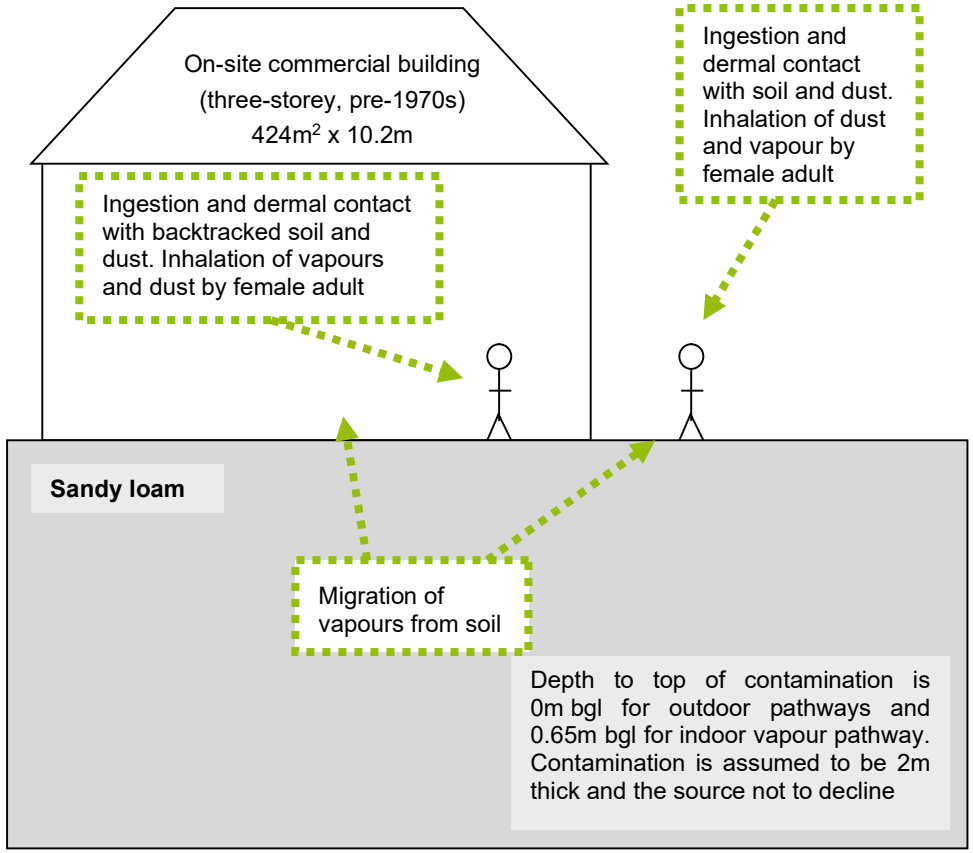


Table 1: Exposure assessment parameters for commercial scenario – inputs for CLEA model

Parameter	Value	Justification
Land use	Commercial	Chosen land use
Receptor	Female worker	Taken as female adult exposed over 49 years from age 16 to 65 years, Box 3.5, SR3[5]
Building	Office (pre-1970)	Key generic assumption given in Box 3.5, SR3[5]. Pre-1970s three-storey office building chosen as it is the most conservative in terms of protection from vapour intrusion (Section 3.4.6, SR3[5])
Soil type	Sandy loam	Most common UK soil type (Section 4.3.1, Table 4.4, SR3[5])
Start age class (AC)	17	AC corresponding to key generic assumption that the critical receptor is a working female adult exposed over a 49-year period from age 16 to 65 years. Assumption given in Box 3.5, SR3[5]
End AC	17	
SOM (%)	6	Representative of sandy loam according to EA guidance note dated January 2009 entitled 'Changes We Have Made to the CLEA Framework Documents'[13]
	1	To provide SAC for sites where SOM < 6% as often observed by RSK
	2.5	
pH	7	Model default

Table 2: Commercial – modified receptor inputs

Parameter	Unit	Value	Justification
Inhalation rate (AC17)	m^3 day^{-1}	15.7	Mean value USEPA, 2011[12]; Table 3.2, SP1010[3]

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GENERIC ASSESSMENT CRITERIA FOR HUMAN HEALTH - COMMERCIAL

Table 3

Human health generic assessment criteria by pathway for commercial scenario

Compound	Notes	SAC appropriate to pathway SOM 1% (mg/kg)			Soil saturation limit (mg/kg)	SAC appropriate to pathway SOM 2.5% (mg/kg)			Soil saturation limit (mg/kg)	SAC appropriate to pathway SOM 6% (mg/kg)			Soil saturation limit (mg/kg)
		Oral	Inhalation	Combined		Oral	Inhalation	Combined		Oral	Inhalation	Combined	
Metals													
Arsenic	(a,b)	6.35E+02	1.25E+03	NR	NR	6.35E+02	1.25E+03	NR	NR	6.35E+02	1.25E+03	NR	NR
Barium	(b)	2.21E+04	NR	NR	NR	2.21E+04	NR	NR	NR	2.21E+04	NR	NR	NR
Beryllium		3.97E+03	1.17E+01	NR	NR	3.97E+03	1.17E+01	NR	NR	3.97E+03	1.17E+01	NR	NR
Boron		2.38E+05	2.82E+07	NR	NR	2.38E+05	2.82E+07	NR	NR	2.38E+05	2.82E+07	NR	NR
Cadmium	(a)	7.73E+02	8.57E+02	4.10E+02	NR	7.73E+02	8.57E+02	4.10E+02	NR	7.73E+02	8.57E+02	4.10E+02	NR
Chromium (III) - trivalent	(c)	3.31E+05	8.57E+03	NR	NR	3.31E+05	8.57E+03	NR	NR	3.31E+05	8.57E+03	NR	NR
Chromium (VI) - hexavalent	(a,d)	9.62E+02	4.91E+01	NR	NR	9.62E+02	4.91E+01	NR	NR	9.62E+02	4.91E+01	NR	NR
Copper		1.89E+05	8.96E+04	6.83E+04	NR	1.89E+05	8.96E+04	6.83E+04	NR	1.89E+05	8.96E+04	6.83E+04	NR
Lead	(a)	2.32E+03	NR	NR	NR	2.32E+03	NR	NR	NR	2.32E+03	NR	NR	NR
Elemental Mercury (Hg^0)	(d)	NR	1.54E+01	NR	4.31E+00	NR	3.26E+01	NR	1.07E+01	NR	5.80E+01	NR	2.58E+01
Inorganic Mercury (Hg^{2+})		1.18E+03	1.97E+04	1.12E+03	NR	1.18E+03	1.97E+04	1.12E+03	NR	1.18E+03	1.97E+04	1.12E+03	NR
Methyl Mercury (Hg^{4+})		3.38E+02	2.13E+03	2.92E+02	7.33E+01	3.38E+02	3.87E+03	3.11E+02	1.42E+02	3.38E+02	7.33E+03	3.23E+02	3.04E+02
Nickel	(d)	3.06E+03	9.83E+02	NR	NR	3.06E+03	9.83E+02	NR	NR	3.06E+03	9.83E+02	NR	NR
Selenium	(b)	1.23E+04	NR	NR	NR	1.23E+04	NR	NR	NR	1.23E+04	NR	NR	NR
Vanadium		2.15E+04	9.03E+03	NR	NR	2.15E+04	9.03E+03	NR	NR	2.15E+04	9.03E+03	NR	NR
Zinc	(b)	7.35E+05	1.97E+08	NR	NR	7.35E+05	1.97E+08	NR	NR	7.35E+05	1.97E+08	NR	NR
Cyanide (free)		6.56E+02	7.51E+04	6.53E+02	NR	6.56E+02	7.51E+04	6.53E+02	NR	6.56E+02	7.51E+04	6.53E+02	NR
Volatile Organic Compounds													
Benzene	(a)	1.09E+03	2.79E+01	2.72E+01	1.22E+03	1.09E+03	5.19E+01	4.96E+01	2.26E+03	1.09E+03	1.08E+02	9.80E+01	4.71E+03
Toluene		4.24E+05	6.49E+04	5.63E+04	8.69E+02	4.24E+05	1.43E+05	1.07E+05	1.92E+03	4.24E+05	3.24E+05	1.84E+05	4.36E+03
Ethylbenzene		1.91E+05	5.89E+03	5.71E+03	5.18E+02	1.91E+05	1.38E+04	1.28E+04	1.22E+03	1.91E+05	3.21E+04	2.75E+04	2.84E+03
Xylene - m		3.43E+05	6.26E+03	6.15E+03	6.25E+02	3.43E+05	1.47E+04	1.41E+04	1.47E+03	3.43E+05	3.44E+04	3.12E+04	3.46E+03
Xylene - o		3.43E+05	6.73E+03	6.60E+03	4.78E+02	3.43E+05	1.57E+04	1.50E+04	1.12E+03	3.43E+05	3.65E+04	3.30E+04	2.62E+03
Xylene - p		3.43E+05	6.03E+03	5.92E+03	5.76E+02	3.43E+05	1.41E+04	1.36E+04	1.35E+03	3.43E+05	3.28E+04	3.00E+04	3.17E+03
Total xylene		3.43E+05	6.03E+03	5.92E+03	6.25E+02	3.43E+05	1.41E+04	1.36E+04	1.47E+03	3.43E+05	3.28E+04	3.00E+04	3.46E+03
Methyl tertiary-Butyl ether (MTBE)		5.72E+05	7.58E+03	7.48E+03	2.04E+04	5.72E+05	1.23E+04	1.21E+04	3.31E+04	5.72E+05	2.34E+04	2.24E+04	6.27E+04
1,1,1,2 Tetrachloroethane		1.10E+04	1.09E+02	1.08E+02	2.60E+03	1.10E+04	2.53E+02	2.47E+02	6.02E+03	1.10E+04	5.88E+02	5.59E+02	1.40E+04
1,1,2,2-Tetrachloroethane		1.10E+04	2.81E+02	2.74E+02	2.67E+03	1.10E+04	5.75E+02	5.46E+02	5.46E+03	1.10E+04	1.26E+03	1.13E+03	1.20E+04
1,1,1-Trichloroethane		1.14E+06	6.60E+02	6.60E+02	1.43E+03	1.14E+06	1.35E+03	1.35E+03	2.92E+03	1.14E+06	2.96E+03	2.95E+03	6.39E+03
1,1,2 Trichloroethane		7.62E+03	9.02E+01	8.91E+01	4.03E+03	7.62E+03	1.84E+02	1.80E+02	8.21E+03	7.62E+03	4.02E+02	3.82E+02	1.80E+04
1,1-Dichloroethene		8.76E+04	2.43E+01	2.43E+01	2.23E+03	8.76E+04	4.30E+01	4.30E+01	3.94E+03	8.76E+04	8.68E+01	8.67E+01	7.94E+03
1,2-Dichloroethane		2.29E+02	6.73E-01	6.71E-01	3.41E+03	2.29E+02	9.71E-01	9.67E-01	4.91E+03	2.29E+02	1.67E+00	1.65E+00	8.43E+03
1,2,4-Trimethylbenzene		NR	3.29E+02	NR	4.74E+02	NR	6.41E+02	NR	1.16E+03	NR	1.04E+03	NR	2.76E+03
1,3,5-Trimethylbenzene	(e)	NR	NR	NR	2.30E+02	NR	NR	NR	5.52E+02	NR	NR	NR	1.30E+03
1,2-Dichloropropane		2.57E+04	3.14E+00	3.13E+00	1.19E+03	2.57E+04	5.54E+00	5.54E+00	2.11E+03	2.57E+04	1.11E+01	1.11E+01	4.24E+03
Carbon Tetrachloride (tetrachloromethane)		7.62E+03	2.87E+00	2.87E+00	1.52E+03	7.62E+03	6.29E+00	6.28E+00	3.32E+03	7.62E+03	1.43E+01	1.42E+01	7.54E+03
Chloroethane		NR	9.01E+02	NR	2.61E+03	NR	1.22E+03	NR	3.54E+03	NR	1.97E+03	NR	5.71E+03
Chloromethane		NR	9.54E-01	NR	1.91E+03	NR	1.11E+00	NR	2.24E+03	NR	1.49E+00	NR	2.99E+03
Cis 1,2 Dichloroethene		1.36E+01	NR	NR	3.94E+03	2.29E+01	NR	NR	6.61E+03	4.44E+01	NR	NR	1.29E+04
Dichloromethane		9.04E+03	2.63E+02	2.57E+02	7.27E+03	9.04E+03	3.50E+02	3.39E+02	9.68E+03	9.04E+03	5.53E+02	5.26E+02	1.53E+04
Tetrachloroethene (PCE)		2.67E+04	2.45E+01	2.45E+01	4.24E+02	2.67E+04	5.49E+01	5.48E+01	9.51E+02	2.67E+04	1.26E+02	1.25E+02	2.18E+03
Trans 1,2 Dichloroethene		3.23E+04	2.07E+01	NR	3.42E+03	3.23E+04	3.74E+01	NR	6.17E+03	3.23E+04	7.63E+01	NR	1.26E+04
Trichloroethene (TCE)		7.30E-01	2.59E+00	NR	1.54E+03	1.53E+00	5.43E+00	NR	3.22E+03	3.38E+00	1.20E+01	NR	7.14E+03
Vinyl Chloride (chloroethene)		1.19E+02	1.13E+00	1.12E+00	1.36E+03	1.19E+02	1.46E+00	1.45E+00	1.76E+03	1.19E+02	2.24E+00	2.20E+00	2.69E+03
Semi-Volatile Organic Compounds													
2-Chloronaphthalene		1.53E+05	3.71E+02	3.70E+02	1.14E+02	1.53E+05	9.07E+02	9.02E+02	2.80E+02	1.53E+05	2.13E+03	2.10E+03	6.69E+02
Acenaphthene		1.10E+05	2.75E+06	1.06E+05	5.70E+01	1.10E+05	5.36E+06	1.08E+05	1.41E+02	1.10E+05	8.83E+06	1.08E+05	3.36E+02

GENERIC ASSESSMENT CRITERIA FOR HUMAN HEALTH - COMMERCIAL

Table 3

Human health generic assessment criteria by pathway for commercial scenario

Compound	Notes	SAC appropriate to pathway SOM 1% (mg/kg)			Soil saturation limit (mg/kg)	SAC appropriate to pathway SOM 2.5% (mg/kg)			Soil saturation limit (mg/kg)	SAC appropriate to pathway SOM 6% (mg/kg)			Soil saturation limit (mg/kg)
		Oral	Inhalation	Combined		Oral	Inhalation	Combined		Oral	Inhalation	Combined	
Acenaphthylene		1.10E+05	2.68E+06	1.05E+05	8.61E+01	1.10E+05	5.23E+06	1.07E+05	2.12E+02	1.10E+05	8.65E+06	1.08E+05	5.06E+02
Anthracene		5.49E+05	1.13E+07	5.23E+05	1.17E+00	5.49E+05	2.35E+07	5.36E+05	2.91E+00	5.49E+05	4.13E+07	5.42E+05	6.96E+00
Benzo(a)anthracene		2.84E+02	4.08E+02	1.67E+02	1.71E+00	2.84E+02	4.47E+02	1.74E+02	4.28E+00	2.84E+02	4.67E+02	1.76E+02	1.03E+01
Benzo(a)pyrene	(a)	7.68E+01	2.04E+02	5.58E+01	9.11E-01	7.68E+01	2.09E+02	5.61E+01	2.28E+00	7.68E+01	2.11E+02	5.63E+01	5.46E+00
Benzo(b)fluoranthene		7.13E+01	1.17E+02	4.43E+01	1.22E+00	7.13E+01	1.20E+02	4.47E+01	3.04E+00	7.13E+01	1.21E+02	4.49E+01	7.29E+00
Benzo(g,h,i)perylene		6.29E+03	1.05E+04	3.93E+03	1.54E-02	6.29E+03	1.06E+04	3.95E+03	3.85E-02	6.29E+03	1.07E+04	3.96E+03	9.23E-02
Benzo(k)fluoranthene		1.88E+03	3.11E+03	1.17E+03	6.87E-01	1.88E+03	3.17E+03	1.18E+03	1.72E+00	1.88E+03	3.21E+03	1.19E+03	4.12E+00
Chrysene		5.67E+02	8.89E+02	3.46E+02	4.40E-01	5.67E+02	9.25E+02	3.52E+02	1.10E+00	5.67E+02	9.47E+02	3.55E+02	2.64E+00
Dibenzo(a,h)anthracene		5.67E+00	9.32E+00	3.53E+00	3.93E-03	5.67E+00	9.52E+00	3.55E+00	9.82E-03	5.67E+00	9.64E+00	3.57E+00	2.36E-02
Fluoranthene		2.29E+04	1.89E+06	2.26E+04	1.89E+01	2.29E+04	2.72E+06	2.27E+04	4.73E+01	2.29E+04	3.32E+06	2.27E+04	1.13E+02
Fluorene		7.31E+04	4.55E+05	6.30E+04	3.09E+01	7.31E+04	1.06E+06	6.84E+04	7.65E+01	7.31E+04	2.24E+06	7.08E+04	1.83E+02
Hexachloroethane		2.09E+01	NR	NR	8.17E+00	4.98E+01	NR	NR	2.01E+01	1.11E+02	NR	NR	4.81E+01
Indeno(1,2,3-cd)pyrene		8.10E+02	1.31E+03	5.01E+02	6.13E-02	8.10E+02	1.35E+03	5.06E+02	1.53E-01	8.10E+02	1.37E+03	5.09E+02	3.68E-01
Naphthalene		3.64E+04	1.87E+03	1.78E+03	7.64E+01	3.64E+04	4.39E+03	3.92E+03	1.83E+02	3.64E+04	9.94E+03	7.81E+03	4.32E+02
Phenanthrene		2.28E+04	5.35E+05	2.19E+04	3.60E+01	2.28E+04	1.09E+06	2.24E+04	8.96E+01	2.28E+04	1.86E+06	2.25E+04	2.14E+02
Pyrene		5.49E+04	4.47E+06	5.42E+04	2.20E+00	5.49E+04	6.46E+06	5.44E+04	5.49E+00	5.49E+04	7.91E+06	5.45E+04	1.32E+01
Phenol		1.10E+06	2.65E+04	2.59E+04	2.42E+04	1.10E+06	3.04E+04	2.96E+04	3.81E+04	1.10E+06	3.46E+04	3.35E+04	7.03E+04
Total petroleum hydrocarbons													
Aliphatic hydrocarbons EC5-EC6		4.77E+06	3.19E+03	3.19E+03	3.04E+02	4.77E+06	5.86E+03	5.86E+03	5.58E+02	4.77E+06	1.21E+04	1.21E+04	1.15E+03
Aliphatic hydrocarbons >EC6-EC8		4.77E+06	7.79E+03	7.78E+03	1.44E+02	4.77E+06	1.74E+04	1.74E+04	3.22E+02	4.77E+06	3.97E+04	3.96E+04	7.36E+02
Aliphatic hydrocarbons >EC8-EC10		9.53E+04	2.02E+03	2.00E+03	7.77E+01	9.53E+04	4.91E+03	4.85E+03	1.90E+02	9.53E+04	1.17E+04	1.13E+04	4.51E+02
Aliphatic hydrocarbons >EC10-EC12		9.53E+04	9.97E+03	9.69E+03	4.75E+01	9.53E+04	2.47E+04	2.29E+04	1.18E+02	9.53E+04	5.89E+04	4.73E+04	2.83E+02
Aliphatic hydrocarbons >EC12-EC16		9.53E+04	8.26E+04	5.88E+04	2.37E+01	9.53E+04	2.04E+05	8.17E+04	5.91E+01	9.53E+04	4.81E+05	9.02E+04	1.42E+02
Aliphatic hydrocarbons >EC16-EC35	(b)	1.58E+06	NR	NR	8.48E+00	1.75E+06	NR	NR	2.12E+01	1.83E+06	NR	NR	5.09E+01
Aliphatic hydrocarbons >EC35-EC44	(b)	1.58E+06	NR	NR	8.48E+00	1.75E+06	NR	NR	2.12E+01	1.83E+06	NR	NR	5.09E+01
Aromatic hydrocarbons >EC8-EC10		3.81E+04	3.55E+03	3.46E+03	6.13E+02	3.81E+04	8.66E+03	8.11E+03	1.50E+03	3.81E+04	2.05E+04	1.70E+04	3.58E+03
Aromatic hydrocarbons >EC10-EC12		3.81E+04	1.92E+04	1.62E+04	3.64E+02	3.81E+04	4.69E+04	2.79E+04	8.99E+02	3.81E+04	1.10E+05	3.42E+04	2.15E+03
Aromatic hydrocarbons >EC12-EC16		3.81E+04	2.02E+05	3.62E+04	1.69E+02	3.81E+04	4.76E+05	3.73E+04	4.19E+02	3.81E+04	1.03E+06	3.78E+04	1.00E+03
Aromatic hydrocarbons >EC16-EC21	(b)	2.82E+04	NR	NR	5.37E+01	2.83E+04	NR	NR	1.34E+02	2.84E+04	NR	NR	3.21E+02
Aromatic hydrocarbons >EC21-EC35	(b)	2.84E+04	NR	NR	4.83E+00	2.84E+04	NR	NR	1.21E+01	2.84E+04	NR	NR	2.90E+01
Aromatic hydrocarbons >EC35-EC44	(b)	2.84E+04	NR	NR	4.83E+00	2.84E+04	NR	NR	1.21E+01	2.84E+04	NR	NR	2.90E+01

Notes:

EC - equivalent carbon. GrAC - groundwater screening value. SAC - soil screening value.

The CLEA model output is colour coded depending upon whether the soil saturation limit has been exceeded.

Calculated SAC exceeds soil saturation limit and may significantly affect the interpretation of any exceedances as the contribution of the indoor and outdoor vapour pathway to total exposure is >10%.

Calculated SAC exceeds soil saturation limit but the exceedance will not affect the SAC significantly as the contribution of the indoor and outdoor vapour pathway to total exposure is <10%.

Calculated SAC does not exceed the soil saturation limit.

The SAC for organic compounds are dependant upon soil organic matter (SOM) (%) content. To obtain SOM from total organic carbon (TOC) (%) divide by 0.58. 1% SOM is 0.58% TOC. DL Rowell Soil Science: Methods and Applications, Longmans, 1994.

SAC for TPH fractions, PAHs napthalene, acenaphthene and acenaphthylene, BTEX and trimethylbenzene compounds were produced using an attenuation factor for the indoor air inhalation pathway of 10 to reduce conservatism associated with the vapour inhalation pathway (Section 10.1.1, SR3)

(a) SAC for arsenic, benzene, benzo(a)pyrene, cadmium, chromium VI and lead are derived using the C4SL toxicology data.

(b) SAC for barium and selenium should not include the inhalation pathway as no expert group HCV has been derived; aliphatic and aromatic hydrocarbons >EC16 should not include inhalation pathway due to their non-volatile nature and inhalation exposure being minimal (oral, dermal and inhalation exposure is compared to the oral HCV); arsenic should only be based on oral contribution (rather than combined) owing to the relative small contribution from inhalation in accordance with the SGV report. The Oral SAC should be adopted for zinc and benzo(a)pyrene.

(c) SAC for CrIII should be based on the lower of the oral and inhalation SAC (see LQM/CIEH 2015 Section 6.8)

(d) SAC for elemental mercury, chromium VI and nickel should be based on the inhalation pathway only.

(e) SAC for 1,3,5-trimethylbenzene is not recorded owing to the lack of toxicological data, SAC for 1,2,4 trimethylbenzene may be used.

GENERIC ASSESSMENT CRITERIA FOR HUMAN HEALTH - COMMERCIAL

Table 4
Human Health Generic Assessment Criteria for Commercial Scenario

Compound	SAC for Soil SOM 1% (mg/kg)	SAC for Soil SOM 2.5% (mg/kg)	SAC for Soil SOM 6% (mg/kg)
Metals			
Arsenic	640	640	640
Barium	22,000	22,000	22,000
Beryllium	12	12	12
Boron	240,000	240,000	240,000
Cadmium	410	410	410
Chromium (III) - trivalent	8,600	8,600	8,600
Chromium (VI) - hexavalent	49	49	49
Copper	68,000	68,000	68,000
Lead	2,300	2,300	2,300
Elemental Mercury (Hg^0)	15 (4)	33 (11)	58 (26)
Inorganic Mercury (Hg^{2+})	1,120	1,120	1,120
Methyl Mercury (Hg^{4+})	290 (73)	310 (142)	320
Nickel	980	980	980
Selenium	12,000	12,000	12,000
Vanadium	9,000	9,000	9,000
Zinc	740,000	740,000	740,000
Cyanide (free)	650	650	650
Volatile Organic Compounds			
Benzene	27	50	98
Toluene	56,000 (869)	107,000 (1,916)	184,000 (4,357)
Ethylbenzene	6,000 (518)	13,000 (1,216)	27,000 (2,844)
Xylene - m	6,200 (625)	14,100 (1,474)	31,200 (3,457)
Xylene - o	6,600 (478)	15,000 (1,120)	33,000 (2,618)
Xylene - p	5,900 (576)	13,600 (1,353)	30,000 (3,167)
Total xylene	5,900 (625)	13,600 (1,474)	30,000 (3,457)
Methyl tertiary-Butyl ether (MTBE)	7,500	12,100	22,400
1,1,1,2 Tetrachloroethane	110	250	560
1,1,2,2-Tetrachloroethane	270	550	1,130
1,1,1-Trichloroethane	700	1,300	3,000
1,1,2 Trichloroethane	89	180	382
1,1-Dichloroethene	24	43	87
1,2-Dichloroethane	0.67	0.97	1.65
1,2,4-Trimethylbenzene	330	640	1,040
1,3,5-Trimethylbenzene	NR	NR	NR
1,2-Dichloropropane	3	6	11
Carbon Tetrachloride (tetrachloromethane)	2.9	6.3	14.2
Chloroethane	901	1,223	1,972
Chloromethane	1.0	1.1	1.5
Cis 1,2 Dichloroethene	14	23	44
Dichloromethane	257	339	526
Tetrachloroethene (PCE)	24	55	125
Trichloroethene (TCE)	0.7	1.5	3.4
Trans 1,2 Dichloroethene	21	37	76
Vinyl Chloride (chloroethene)	1.1	1.4	2.2
Semi-Volatile Organic Compounds			
2-Chloronaphthalene	370 (114)	902 (280)	2,098 (669)
Acenaphthene	110,000	110,000	110,000
Acenaphthylene	110,000	110,000	110,000
Anthracene	520,000	540,000	540,000
Benzo(a)anthracene	170	170	180
Benzo(a)pyrene	77	77	77
Benzo(b)fluoranthene	44	45	45
Benzo(g,h,i)perylene	3,900	3,900	4,000
Benzo(k)fluoranthene	1,200	1,200	1,200
Chrysene	350	350	350
Dibenzo(a,h)anthracene	3.5	3.6	3.6
Fluoranthene	23,000	23,000	23,000
Fluorene	63,000 (31)	68,000	71,000
Hexachloroethane	21 (8)	50 (20)	111 (48)
Indeno(1,2,3-cd)pyrene	500	510	510
Naphthalene	1,800 (76)	3,900 (183)	7,800 (432)
Phenanthrene	22,000	22,000	23,000
Pyrene	54,000	54,000	54,000
Phenol	440*	690*	1,300*
Total Petroleum Hydrocarbons			
Aliphatic hydrocarbons EC_5-EC_6	3,200 (304)	5,900 (558)	12,100 (1,150)
Aliphatic hydrocarbons >EC_6-EC_8	7,800 (144)	17,400 (322)	39,600 (736)
Aliphatic hydrocarbons >EC_8-EC_{10}	2,000 (78)	4,800 (190)	11,300 (451)
Aliphatic hydrocarbons >EC_{10}-EC_{12}	9,700 (48)	22,900 (118)	47,300 (283)
Aliphatic hydrocarbons >EC_{12}-EC_{16}	59,000 (24)	82,000 (59)	90,000 (142)
Aliphatic hydrocarbons >EC_{16}-EC_{35}	1,000,000**	1,000,000**	1,000,000**
Aliphatic hydrocarbons >EC_{35}-EC_{44}	1,000,000**	1,000,000**	1,000,000**
Aromatic hydrocarbons >EC_8-EC_{10}	3,500 (613)	8,100 (1,503)	17,000 (3,580)
Aromatic hydrocarbons >EC_{10}-EC_{12}	16,000 (364)	28,000 (899)	34,000 (2,150)
Aromatic hydrocarbons >EC_{12}-EC_{16}	36,000 (169)	37,000	38,000
Aromatic hydrocarbons >EC_{16}-EC_{21}	28,000	28,000	28,000
Aromatic hydrocarbons >EC_{21}-EC_{35}	28,000	28,000	28,000
Aromatic hydrocarbons >EC_{35}-EC_{44}	28,000	28,000	28,000
Minerals			
Asbestos	Stage 1 test – No asbestos detected with ID; Stage 2 test - <0.001% dry weight (exceedance of either equates to an exceedance of the GAC)[1]		

Notes:

'-' Generic assessment criteria not calculated owing to low volatility of substance and therefore no pathway, or an absence of toxicological data.

NR - SAC for 1,3,5-trimethylbenzene is not recorded owing to the lack of toxicological data, SAC for 1,2,4 trimethylbenzene may be used

EC - equivalent carbon. GrAC - groundwater assessment criteria. SAC - soil assessment criteria.

* The GAC for Phenol is based on a threshold which is protective of direct contact (SC050021/Phenol SGV report)

** Denoted SAC calculated exceeds 100% contaminant, hence 100% (1,000,000mg/kg) has been taken as SAC

The SAC for organic compounds are dependent on Soil Organic Matter (SOM) (%) content. To obtain SOM from total organic carbon (TOC) (%) divide by 0.58. 1% SOM is 0.58% TOC. DL Rowell Soil Science: Methods and Applications, Longmans, 1994.

SAC for TPH fractions, PAHs napthalene, acenaphthene and acenaphthylene, BTEX and trimethylbenzene compounds were produced using an attenuation factor for the indoor air inhalation pathway of 10 to reduce conservatism associated with the vapour inhalation pathway, section 10.1.1, SR3.

(VALUE IN BRACKETS)

RSK has adopted an approach for petroleum hydrocarbons in accordance with LQM/CIEH whereby the concentration modelled for each petroleum hydrocarbon fraction has been tabulated as the SAC with the corresponding solubility or vapour saturation limits given in brackets.

Generic groundwater assessment criteria (GrAC) for human health: commercial scenario (adult receptor)

Background

Volatile compounds in groundwater have the potential to pose risks to residential site end users via indoor and outdoor inhalation exposure. Due to significant dilution effects in outdoor air, risk from inhalation of volatile contaminants risk is generally dominated by indoor exposure. The GrAC conceptual site model (CSM) is shown in Figure 1 (not to scale).

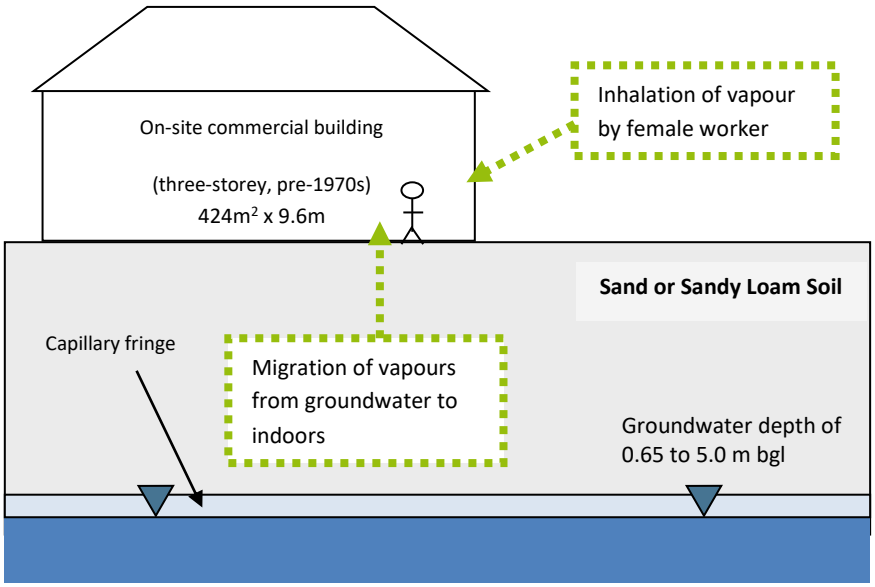


Figure 1: GrAC conceptual model for a generic commercial scenario

RSK GrAC derivation

Model selection

RSK GrAC have been calculated using the RBCA Toolkit for Chemical Releases (version 2.6) with the Johnson and Ettinger model, based on the CSM in Figure 1 for a pre-1970 three storey office building (as defined in SR3[3], Table 4.21). The Johnson & Ettinger model is adopted in the Environment Agency Contaminated Land Exposure Assessment tool for assessing risk to human health from inhalation of volatile contaminants in indoor air. However, the RBCA toolkit implementation of Johnson & Ettinger model allows consideration of a capillary fringe and is designed to directly model vapour intrusion to buildings from VOC in groundwater.

Conceptual model

The pollutant linkage considered in production of the GrAC is the volatilisation of compounds from groundwater and subsequent vapour migration into buildings followed by indoor inhalation by the identified receptor. Although the outdoor air inhalation pathway is also valid, this contributes little to the overall risks owing to dilution in outdoor air.

In accordance with SR3[3], the commercial scenario considers risk to an adult female worker who works from the age of 16 to 65 years. In line with updated exposure assumptions set out in C4SL

Project Methodology, it is assumed the receptors comprises an adult weighing 70kg and inhaling 15.7 m^3/day.

The CLEA default pre-1970s three-storey office building was used in accordance with the standard commercial scenario described in the Environment Agency SR3 report. The building parameters used in the production of the RSK GACs are the default CLEA inputs presented in Table 3.3 of SR3[3]. Default indoor air exchange rates and soil gas ingress rates have also been adopted.

The RSK GrAC have been calculated for both Sand and Sandy Loam soils using parameters presented in Table 3.1 of SR3[3]. The RSK GrAC have been derived for groundwater depths of 0.65 m, 1.5 m, 2.5 m and 5.0 m below ground level, incorporating a capillary fringe.

In line with recommendations provided in Environment Agency SR3[3] a sub-surface to indoor attenuation factor of 10 has been applied to RBCA derived target levels for all volatile petroleum hydrocarbon fractions.

It is also assumed that contamination is present in the dissolved phase only. RBCA highlights when the assessment criterion exceeds the solubility limit of the pure compound. The full physical input parameters utilised in RBCA are presented in **Annex A**.

Input selection – chemical and toxicological parameters

Key parameters used in the RBCA model are listed and justified in Table 1 of Annex A. The most up-to-date published chemical data was obtained from Environment Agency Report SC050021/SR7[2] where available. Toxicological and chemical data was also obtained from third party published sources including the following:

- Environment Agency TOX reports;
- LQM/CIEH S4UL:s for Human Health Risk Assessment by Land Quality Press (2015);
- CL:AIRE/EIC/AGS Soil Generic Assessment Criteria (2010); and
- CL:AIRE & DeFRA Category 4 Screening Levels (2014) & (2020).

For volatile compounds with published C4SLs (benzene, TCE, tetrachloroethene, and vinyl chloride) the published Low Level of Toxicological Concern (LLTC) has been adopted. For all other constituents the toxicological input parameters are associated with minimal risk derived in accordance with Environment Agency Report SC050021/SR2 guidance.

For petroleum hydrocarbon fractions, aromatic hydrocarbons C5–C8 have been represented by benzene (>EC5-EC7) and toluene (>EC7-EC8), which are modelled separately. For the Commercial GrAC, the Health Criteria Values (HCV) used in the modelling were derived using the toxicological data discussed above, and adopting the following adjustments:

- An adult weighing 70kg and breathing 15.7m^3 air per day in accordance with the revised exposure parameters used in the SP1010 final project report for the Category 4 Screening Levels (C4SL) (Table 3.2[8]) and USEPA data[9]; and
- For threshold compounds background inhalation (mean daily intake(MDI)) for an adult (Age Class 17) have been utilised in accordance with Environment Agency toxicological guidance.

The inhalation HCVs have been adjusted to account for the reduction in inhalation rate from 20m/day to 15.7m/day the inhalation health criterion values (HCV). The tolerable indoor air

concentrations based on derived HCV used in the derivation of the RSK GrAC are presented in **Annex A**.

Note on aqueous solubility and the RSK GrAC

Where the modelled assessment criteria, or the modelled assessment criteria with the correction factor applied to those contaminants specified below, exceed the aqueous solubility limit the assessment criteria defaults to this concentration and consequently the GrAC is set at the respective limit of solubility.

Where the GrAC exceeds the solubility limit the criteria area shaded red. In these circumstances there may not be a risk to human health in the dissolved phase. Consideration may need to be given to the potential for NAPL to be present at lower concentrations in mixtures in accordance with Raoults Law.

RSK GrAC derivation outputs

The RSK GrACs are presented in Table 1.

Within the RSK GrAC the following should be noted:

- GrAC do not take account of outdoor inhalation exposure to VOC, which is considered to contribute minimally to overall inhalation exposure
- GrAC do not take account of other exposure routes potentially relevant to VOC in shallow groundwater such as direct contact or root uptake
- No biodegradation is assumed to occur in the unsaturated zone. Where aerobic conditions on site are known to exist the GrAC for hydrocarbons may therefore be conservative
- GrAC do not take account of preferential flow into buildings such as through unsealed service entries. In such circumstances GrAC may not be appropriate for use
- GrAC are based on a soil vapour intrusion CSM and are not appropriate for use when the foundation is in direct contact with contaminated groundwater
- GrAC assume that the capillary fringe is un-contaminated with VOC, which is unlikely, particularly where groundwater levels are variable
- GrAC set at the theoretical aqueous solubility limit are not considered to pose a risk to human health
- GrAC do not take into account the interaction between contaminants and the influence this may have on the theoretical aqueous solubility
- GrACs are only applicable to dissolved phase contaminants where the modelled assessment criteria is below the aqueous solubility limits

Table 1: RSK GrAC (µg/l)									
Land Use	**COMMERCIAL**								
Soil Type	**SAND**					**SANDY LOAM**			
GW Depth (m)	**0.65**	**1.5**	**2.5**	**5**		**0.65**	**1.5**	**2.5**	**5**
Metals									
Elemental mercury	56	56	56	56		56	56	56	56
Methyl mercury	100000	100000	100000	100000		100000	100000	100000	100000
Volatile Organic Compounds									
Benzene (C4SL)	30740	40200	51330	79160		158660	193720	234960	338070
Toluene	590000	590000	590000	590000		590000	590000	590000	590000
Ethylbenzene	180000	180000	180000	180000		180000	180000	180000	180000
Xylene - m	200000	200000	200000	200000		200000	200000	200000	200000
Xylene - o	173000	173000	173000	173000		173000	173000	173000	173000
Xylene - p	200000	200000	200000	200000		200000	200000	200000	200000
Total xylene	173000	173000	173000	173000		173000	173000	173000	173000
Methyl tertiary-Butyl ether (MTBE)	12068580	16013210	20653950	32255810		48000000	48000000	48000000	48000000
Trichloroethene (TCE) (C4SL)	1730	2290	2950	4590		9290	11360	13790	19880
Tetrachloroethene (PCE) (C4SL)	9790	13070	16940	26600		54230	66430	80780	116660
1,1,1-Trichloroethane	456280	604180	778170	1213140		1300000	1300000	1300000	1300000
1,1,1,2 Tetrachloroethane	35130	47100	61190	96410		180890	225050	277000	406880
1,1,2,2-Tetrachloroethane	231900	313430	409350	649150		844250	1131800	1470100	2315840
Carbon Tetrachloride	1200	1590	2050	3210		6600	8050	9760	14030
1,2-Dichloroethane	1290	1690	2160	3350		5860	7330	9060	13390
Vinyl Chloride (chloroethene) (C4SL)	1720	2200	2760	4150		8670	10440	12510	17690
1,2,4-Trimethylbenzene	55900	55900	55900	55900		55900	55900	55900	55900

Table 1: RSK GrAC (µg/l)									
Land Use	**COMMERCIAL**								
Soil Type	**SAND**					**SANDY LOAM**			
GW Depth (m)	**0.65**	**1.5**	**2.5**	**5**		**0.65**	**1.5**	**2.5**	**5**
Semi-Volatile Organic Compounds									
Acenaphthene	4100	4100	4100	4100		4100	4100	4100	4100
Acenaphthylene	7950	7950	7950	7950		7950	7950	7950	7950
Naphthalene	19000	19000	19000	19000		19000	19000	19000	19000
Petroleum Hydrocarbons									
Aliphatic hydrocarbons EC5-EC6	35900	35900	35900	35900		35900	35900	35900	35900
Aliphatic hydrocarbons >EC6-EC8	5370	5370	5370	5370		5370	5370	5370	5370
Aliphatic hydrocarbons >EC8-EC10	427	427	427	427		427	427	427	427
Aliphatic hydrocarbons >EC10-EC12	33.9	33.9	33.9	33.9		33.9	33.9	33.9	33.9
Aliphatic hydrocarbons >EC12-EC16	0.759	0.759	0.759	0.759		0.759	0.759	0.759	0.759
Aromatic hydrocarbons >EC8-EC10	64600	64600	64600	64600		64600	64600	64600	64600
Aromatic hydrocarbons >EC10-EC12	24500	24500	24500	24500		24500	24500	24500	24500
Aromatic hydrocarbons >EC12-EC16	5750	5750	5750	5750		5750	5750	5750	5750

Notes:
Values less than 100 have not been rounded up or down; values greater than 100 have been rounded to the nearest 10.
Red highlighted values exceed solubility limit for the pure compound in water (aqueous solubility); GrAC defaults to the limit of solubility.
No vadose zone biodegradation considered
Sub-surface to indoor air correction factor of 10 applied to all petroleum (non-chlorinated) hydrocarbons
All GrAC are for 1% SOM (0.0058 FOC)

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Annex A – Model Input Parameters

Table 1: Commercial scenario – RBCA input parameters

Parameter	Unit	Value	Justification
Receptor – female child			
Averaging time	Years	49	From Box 3.5, SR3[3]
Receptor weight	kg	70	Female adult, Table 4.6, SR3[3]
Exposure duration	Years	49	From Box 3.5, SR3[3]
Exposure frequency	Days yr^{-1}	86.25	Weighted using occupancy period of 9 hours per day for 230 days of the year ((9hours x 230 days)/24 hours)
Soil type – sand			
Total porosity	-	0.54	CLEA value for sand. Parameters for sand from Table 4.4, SR3[3] Volumetric water content in the vadose zone is a highly sensitive parameter within the model and potentially highly variable in the field.
Volumetric water content – unsaturated (vadose) zone	-	0.24	
Volumetric air content - unsaturated (vadose) zone	-	0.30	
Dry bulk density	g cm^{-3} or kg L^{-1}	1.18	
Volumetric water content – capillary zone	-	0.35	Calculated using SR3 Equation 4.1. Value taken as the average moisture content calculated for suction heads (cm H_2O); 0 (i.e. saturated), 10, 20, 30, 40, 50 (i.e. unsaturated soil at field capacity). This is a highly sensitive parameter within the model.
Volumetric air content - capillary zone	-	0.19	Calculated from total porosity and volumetric water content of capillary zone. This is a highly sensitive parameter within the model.
Vertical hydraulic conductivity	cm d^{-1}	636	CLEA value for saturated conductivity of sandy loam, Table 4.4, SR3[3] equivalent to 7.36 E-03 cm s^{-1}
Vapour permeability	m^2	7.54 E-12	Calculated for sand using equations in Appendix 1, SR3[3]
Capillary zone thickness	m	0.25	Taken from C W Fetter, Applied Hydrogeology 4th Ed, 1994[11] and R Heath, Basic groundwater hydrology 1992[12] for a medium sand
Fraction organic carbon	%	0.0058	Equivalent to SOM = 1%. Note that GrAC are independent on FOC/SOM content since partitioning is assumed to be between aqueous and vapour phases only
Soil type – sandy loam			
Total porosity	-	0.53	CLEA value for sandy loam. Parameters for sandy loam from Table 4.4, SR3[3]. Volumetric water content in the vadose zone is a highly sensitive parameter within the model and potentially highly variable in the field.
Volumetric water content – unsaturated (vadose) zone	-	0.33	
Volumetric air content - unsaturated (vadose) zone	-	0.20	
Dry bulk density	g cm^{-3} or kg/L	1.21	
Volumetric water content – capillary zone	-	0.42	Calculated using SR3 Equation 4.1[3]. Value taken as the average moisture content calculated for suction heads (cm H_2O); 0 (i.e. saturated), 10, 20, 30, 40, 50 (i.e. unsaturated soil at field capacity). This is a highly sensitive parameter within the model.
Volumetric air content - capillary zone	-	0.11	Calculated from total porosity and volumetric water content of capillary zone. This is a highly sensitive parameter within

Parameter	Unit	Value	Justification
			the model.
Vertical hydraulic conductivity	cm d^{-1}	308	CLEA value for saturated conductivity of sandy loam, Table 4.4, SR3[3] equivalent to 3.56E-3 cm s^{-1}
Vapour permeability	m^2	3.05 E-12	Calculated for sandy loam using equations in Appendix 1, SR3[3]
Capillary zone thickness	m	0.4	Taken from R Heath, Basic Groundwater Hydrology 1992[12] for a fine sand. Note: C W Fetter, Applied Hydrogeology 4th Ed, 1994[11] value for fine sand is 0.5 m
Fraction organic carbon	%	0.0058	Equivalent to SOM = 1%. Note that GrAC are independent on FOC/SOM content since partitioning is assumed to be between aqueous and vapour phases only
Building – pre-1970 three storey office			
Building volume/area ratio	m	9.6	Table 3.10, SR3[3]
Foundation area	m^2	424	
Foundation perimeter	m	82.40	Based on square root of building area being 20.59m
Building air exchange rate	d^{-1}	24	Table 3.10, SR3[3] Building air exchange rate equivalent to 2.8 E-04 s^{-1}
Depth to bottom of foundation slab	m	0.15	
Foundation thickness	m	0.15	
Foundation crack fraction	-	3.89E-04	Calculated from floor crack area of 0.165m^2 and building footprint of 424m^2 in Table 4.21, SR3[3]
Volumetric water content of cracks	-	0.24 / 0.33	For sand / sandy loam, assumed equal to underlying soil type in assumption that cracks become filled with unsaturated zone soil over time. Parameters for sand and sandy loam from Table 4.4, SR3[3]
Volumetric air content of cracks	-	0.30 / 0.20	
Indoor/outdoor differential pressure	Pa	4.4	From Table 3.3, SR3[3] Equivalent to 44g/cm/s^2
Convective air flow through cracks (Q_{soil}) - Sand	m^3 s^{-1}	1.95 E-04	Soil-specific calculated parameter in RBCA equivalent (and cross checked) with equations A1, A2, A3, A8, A9 in SR3[3]. Equivalent to **195 cm^3 s^{-1}**
Convective air flow through cracks (Q_{soil}) – Sandy Loam	m^3 s^{-1}	7.7 E-05	Soil-specific calculated parameter in RBCA equivalent (and cross checked) with equations A1, A2, A3, A8, A9 in SR3[3]. Equivalent to **77 cm^3 s^{-1}**

Table 2: Tolerable Indoor Air Concentrations

Tolerable Indoor Air Concentration (mg/m^3)[1]	
VOC / SVOC	**Adult (Commercial)**
MTBE	3.2064
Benzene [C4SL]	0.0062
Toluene	6.2362
Ethylbenzene	0.3301
Xylenes	0.2609
Trimethylbenzenes*	0.0085
TPH_Aliphatic >EC5-EC6	11.1465
TPH_Aliphatic >EC6-EC8	11.1465
TPH_Aliphatic >EC8-EC10	0.6465
TPH_Aliphatic >EC10-EC12	0.6465
TPH_Aliphatic >EC12-EC16	0.6465
TPH_Aromatic >EC8-EC9 (styrene)	0.5350

Tolerable Indoor Air Concentration (mg/m^3)[1]	
VOC / SVOC	**Adult (Commercial)**
TPH_Aromatic >EC8-EC10	0.1338
TPH_Aromatic >EC10-EC12	0.1338
TPH_Aromatic >EC12-EC16	0.1338
Acenaphthene	0.2675
Acenaphthylene	0.2675
Naphthalene	0.0037
Vinyl chloride C4SL	0.0255
Dichloroethane-1,2	0.0005
Tetrachloroethene C4SL	0.0478
Carbon tetrachloride	0.0114
Trichloroethane-1,1,1	2.6752
Trichloroethene C4SL	0.0054
Tetrachloroethane 1,1,2,2 & 1,1,1,2	0.0257
1,1,2-Trichloroethane	0.0216
1,1-dichloroethane	0.8915
1,1-dichloroethene	0.2541
Chloroethane	12.7374
Chloromethane	0.0115
cis-1,2-dichloroethene	0.0264
Dichloromethane	0.5765
trans-1,2-dichloroethene	0.0754
Trichloromethane (chloroform)	0.1752
Mercury Elemental	0.00027
Mercury Methyl	0.0008

[1] Inhalation HCV has taken account of background inhalation for threshold compounds only

C4SL denotes value based on published Lower Limit of Toxicological Concern

* For trimethylbenzenes, the HCV incorporates a Mean Daily Intake of 0.309 ug m^{-3} based on urban air quality data obtained by RSK for Eltham, Southeast London rather than higher values (2.46-5.66 ug m^{-3}) reported by CL:AIRE from a Dutch study.
TPH aromatic >C5-C7 and TPH aromatic >C7-C8 are represented by benzene and toluene respectively.

APPENDIX I GAC GROUNDWATER

GENERIC ASSESSMENT CRITERIA FOR CONTROLLED WATERS

Protection of the water environment

The water environment in the United Kingdom is protected under a number of regulatory regimes. The relevant environmental regulator is consulted where there may be a risk that pollution of 'controlled waters' may occur or may have occurred in the past.

The term 'controlled waters' refers to coastal waters, inland freshwaters and groundwater. The EU Water Framework Directive (WFD) (2000/60/EC) is implemented via domestic regulations and guidance, covering aspects of groundwater and surface water protection as well as drinking water supply policy. Domestic legislation and guidance will vary across the United Kingdom. Therefore, the relevant legislation for England, Wales, Northern Ireland and Scotland should be reviewed, alongside guidance provided by the Environment Agency (EA), Natural Resource Wales (NRW), the Scottish Environmental Protection Agency (SEPA) or the Northern Ireland Environment Agency (NIEA), as appropriate.

The main objectives of the protection and remediation of groundwater under threat from land contamination are set out within "The Environment Agency's approach to groundwater protection", version 1.0 (March 2017)(1) and the associated guidance "Land contamination groundwater compliance points: quantitative risk assessments (March 2017)(1a) that have replaced the previous guidance document "Groundwater Principles and Practice (GP3)". When assessing risks to groundwater, the following need to be considered:

- Where pollutants have not yet entered groundwater, all necessary and reasonable measures must be taken to:
    - ***prevent*** *the input of* ***hazardous*** *substances into groundwater (see description of hazardous substances below)*
    - ***limit*** *the entry of other (non-hazardous) pollutants into groundwater to avoid pollution, deterioration in the status of groundwater bodies and to prevent sustained, upward trends in pollutant concentrations in groundwater.*
- Where pollutants have already entered groundwater, the priority is to take all necessary and reasonable measures to:
    - ***minimise*** *further entry of "contaminants" where there is a defined source*
    - ***limit the pollution*** *of groundwater or any effect on the status of the groundwater body from the future expansion of the 'plume', if necessary, by actively reducing its extent.*

Within the context of groundwater risk assessments on sites affected by land contamination, "reasonable" means feasible without involving disproportionate costs. What costs are "disproportionate" depends on site-specific circumstances, which may include:

- Considerations of technical feasibility such as identified by the remedial options appraisal, this may be due to the distribution or nature of the contamination and the available remedial methods to treat the identified contamination;
- Sustainability considerations.

DEFINITIONS AND SUBSTANCE CLASSIFICATIONS

Risks to surface waters:

When assessing risks to surface waters, the following list of definitions should be understood:

Priority substances (PS) are harmful substances originally identified under the Water Framework Directive (WFD) 2000/60/EC as substances 'presenting a significant risk to or via the aquatic environment' at a European level. Member States are required to incorporate the identified **PS** into their country-wide monitoring programmes. There are currently 33 **PS** defined within the Priority Substances Directive (2013/39/EU; Annex 1), with a further 12 additional substances due to come into force from 22 December 2018. Directive 2013/39/EU has been transposed into domestic legislation for England and Wales by The Water Framework Directive (Standards and Classification) Directions (England and Wales) 2015.

Under the umbrella of **PS**, there is a sub-set of substances identified as being "hazardous", and these are referred to as **Priority hazardous substances (PHS).** The list of **PHS** is defined at EU level within the Priority Substances Directive (2013/39/EU). The WFD defines hazardous substances as 'substances (or groups of substances) that are toxic, persistent and liable to bio-accumulate, and other substances or groups of substances that give rise to an equivalent level of concern.' There are currently **21 PHS** (previously 15 PHS, with a further 6 substances added in 22 December 2018).

There is also another group of substances defined at EU level and which are referred to as **other pollutants (OP)** in Directive 2013/39/EU**.** These are additional substances which although not **priority substances**, have EQS which are identical to those laid down in the legislation which applied prior to 13 January 2009 (Directive 2008/105/EU). The **OP** are listed along with the **priority substance (PS)** within the Priority Substances Directive (2013/39/EU),and their associated EQS are also listed therein. There are 6 **OP** defined within the Priority Substances Directive (2013/39/EU).

In addition to the EU level substances, there are also a group of pollutants defined at a Member State level, referred to as **Specific pollutants (SP)**. These substances are pollutants which are released in significant quantities into water bodies in each of the individual European Member States. Under the WFD, Member States are required to set their own EQS for these substances. An indicative list of **SP** is given in Annex VIII of the WFD. Many of the substances categorised as **SP** in the UK were formerly List 2 substances under the old Groundwater Directive (80/68/EEC). The **SP** are defined within Part 2 (Table 1) of The Water Framework Directive (Standards and Classification) Directions (England and Wales) 2015.

Risks to groundwater:

When assessing risks to groundwater, the following definitions should be understood:

Under the requirements of the Groundwater Daughter Directive (2006/118/EU), the UK has published a list of substances it considers to be **hazardous substances** with respect to groundwater. In their advisory capacity to the government, this list has been derived by the UK Joint Agencies Groundwater Directive Advisory Group (JAGDAG), of which the Environment Agency is a member. The latest JAGDAG list of **hazardous substances** was published in January 2019 and the Environment Agency will use the updated list of hazardous substances from this date for all new activities that may lead to the discharge of hazardous substances to groundwater. The list is extensive and can be found in full at:

https://www.wfduk.org/stakeholders/jagdag

Selecting the appropriate assessment criteria

When assessing the risks to controlled waters, various assessment criteria apply, depending on the nature of the assessment and the conceptual site model.

Where a surface water body is involved, then Environmental Quality Standards (EQS) are the relevant assessment criteria as they are designed to be protective of surface water ecology.

Where a public water supply or a Principal aquifer is involved, then the standards defined in The Water Supply (Water Quality) Regulations(2) are the primary source of assessment criteria. The Private Water Supplies Regulations(3) may also be applicable in some cases. For instances where there are no UK assessment criteria, then the World Health Organisation (WHO) drinking water guidelines(4) may be used.

This appendix presents the generic assessment criteria (GAC) that RSK considers suitable for assessing risks to controlled waters for our most commonly encountered determinants. A full list of EQS for England and Wales are included in The Water Framework Directive (Standards and Classification) Directions (England and Wales) 2015.

The RSK GAC for controlled waters are presented in **Table 1** and **Table 2**. In line with the Environment Agency's Remedial Targets Methodology, the GAC for controlled waters are termed 'target concentrations'.

The appropriate target concentrations should be selected with consideration to:

- the site conceptual model (i.e. the receptor at potential risk);
- whether the substance is already present in groundwater at the site;
- whether or not the substance is classified as a priority hazardous substance under the Priority Substances Directive (2013/39/EC) (see above), or as a hazardous substance according to the current list of JAGDAG determinations(5); and
- background concentrations in the aquifer (if applicable).

It is important to remember that the WFD and Environment Agency guidance(1 & 1a) support a sustainable, risk-based approach be applied to groundwater contamination. Exceedance of any target concentration does not necessarily imply that an unacceptable risk exists or that remediation is inevitably required.

Target concentrations shaded in green are statutory values	Target concentrations shaded in orange are non-statutory values

Note: Units µg/l throughout (unless otherwise stated)

Table 1: Target concentrations for controlled waters (excluding TPH CWG fractions)

Substance classification		Determinant	Target concentrations (µg/l)			
Groundwater receptors[5]	Surface water receptors[6]		Minimum reporting value	UK drinking water standard (or best equivalent)	EQS or best equivalent	
					Freshwater	Transitional (estuaries) and coastal waters
Metals & other inorganics						
Hazardous substance	Specific pollutant	Arsenic	-	10[2]	50[6a]	25[6a]
Non-hazardous pollutant	Priority substance	Cadmium	0.1[7]	5[2]	≤0.08, 0.08, 0.09, 0.15, 0.25 [6b]	0.2[6a]
(Not determined)	-	Chromium (total)	-	50[2]	8.1 Sum values for chromium III and VI	-
(Not determined)	Specific pollutant	Chromium (III)	-	Use value for total chromium	4.7[6a]	-
Hazardous substance	Specific pollutant	Chromium (VI)			3.4[6a]	0.6[6a]

Substance classification		Determinant	Target concentrations (µg/l)			
Groundwater receptors[5]	Surface water receptors[6]		Minimum reporting value	UK drinking water standard (or best equivalent)	EQS or best equivalent	
					Freshwater	Transitional (estuaries) and coastal waters
(Not determined)	Specific pollutant	Copper	-	2,000[2]	1 bioavailable[6a]	3.76 dissolved, where DOC ≤1mg/l[6a] 3.76µg/l + (2.677µg/l x ((DOC/2) – 0.5µg/l)) dissolved, where DOC >1mg/l[6a]
Hazardous substance	Priority substance	Lead	-	10[2]	1.2 bioavailable[6a]	1.3[6a]
Hazardous substance	**Priority hazardous substance**	Mercury	0.01[7]	1[2]	0.07[6c]	0.07[6c]
Non-hazardous pollutant	Priority substance	Nickel	-	20[2]	4.0 bioavailable[6a]	8.6[6a]
Non-hazardous pollutant	-	Selenium	-	10[2]	-	-
Non-hazardous pollutant	Specific pollutant	Zinc	-	3,000[8]	10.9 bioavailable[6a]	6.8 dissolved [6a]
(Not determined)	Specific pollutant	Iron	-	200[2]	1000[6a]*1	1000[6a])*1
(Not determined)	Specific pollutant	Manganese	-	50[2] (0.05mg/l)	123 bioavailable[6a] (0.123mg/l)	-
(Not determined)	-	Aluminium	-	200[2]	-	-

Substance classification		Determinant	Target concentrations (µg/l)			
					EQS or best equivalent	
Groundwater receptors[5]	Surface water receptors[6]		Minimum reporting value	UK drinking water standard (or best equivalent)	Freshwater	Transitional (estuaries) and coastal waters
Hazardous substance	**Priority hazardous substance**	Tributyltin compounds (Tributyltin-cation)	0.001[7]	-	0.0002[6a]	0.0002[6a]
(Not determined)	-	Sodium	-	200,000[2] (200 mg/l)	-	-
Non-hazardous pollutant	Specific pollutant	Cyanide (Hydrogen cyanide)	-	50[2] (0.05 mg/l)	1[6a] (0.001 mg/l)	1[6a] (0.001 mg/l)
Non-hazardous pollutant	-	Total ammoniacal nitrogen[$]	-	500[2] (0.5 mg/l) as NH_4 (472 expressed as NH_3; 389 expressed as N)	300[6f] (0.3 mg/l) as N (364 expressed as NH_3; 386 expressed as NH_4)	-
Non-hazardous pollutant	Specific pollutant	Ammonia un-ionised (equilibrium ratio calculated) (NH_3)	-	-	-	21[6a] (0.021 mg/l)
Non-hazardous pollutant	Specific pollutant	Chlorine	-	-	2[6a] (0.002 mg/l)	10[6d] (0.01 mg/l)
(Not determined)	-	Chloride	-	250,000[2] (250 mg/l)	-	-
(Not determined)	-	Sulphate	-	250,000[2] (250 mg/l)	-	-
(Not determined)	-	Nitrate (as NO_3)	-	50,000[2] (50 mg/l)	-	-

Substance classification		Determinant	Target concentrations (µg/l)			
Groundwater receptors[5]	Surface water receptors[6]		Minimum reporting value	UK drinking water standard (or best equivalent)	EQS or best equivalent	
					Freshwater	Transitional (estuaries) and coastal waters
(Not determined)	-	Nitrite (as NO_2)	-	500[2] (0.5 mg/l)	10[9] (0.01 mg/l)	-
Volatile organic compounds (VOC)						
Non-hazardous pollutant	Other pollutant	Tetrachloroethene (tetrachloroethylene; PCE)	0.1[7]	10[2] sum of TCE and PCE	10[6a]	10[6a]
Hazardous substance	Other pollutant	Trichloroethene (trichloroethylene; TCE)	0.1[7]		10[6a]	10[6a]
Hazardous substance *(1,1,2,2-tetra - choloroethane)*	Specific pollutant	Tetrachloroethane	-	-	140[6a]	-
Hazardous substance	Other pollutant	Carbon tetrachloride (tetrachloromethane)	0.1[7]	3.0[2]	12[6a]	12[6a]
Non-hazardous pollutant	Priority substance	1,2-Dichloroethane	1.0[7]	3.0[2]	10[6a]	10[6a]
Non-hazardous pollutant	-	1.2-Dichloroethene (DCE) sum of cis and trans	-	50.0[4]	-	-
Hazardous substance	-	Vinyl chloride (chloroethene, chloroethylene)	-	0.5[2]	-	-
Non-hazardous pollutant	Priority substance	Dichloromethane	-	20[4]	20[6a]	20[6a]

Substance classification		Determinant	Target concentrations (µg/l)			
Groundwater receptors[5]	Surface water receptors[6]		Minimum reporting value	UK drinking water standard (or best equivalent)	EQS or best equivalent	
					Freshwater	Transitional (estuaries) and coastal waters
Non-hazardous pollutant	Priority substance	Trichlorobenzenes	0.01[7]	-	0.4[6a]	0.4[(6a)]
Hazardous substance	Priority substance	Trichloromethane (Chloroform)	0.1[7]	100[2a] (sum of **trihalomethanes** – chloroform, bromform, dibromochloromethane, bromodichloromethane)	2.5[6a]	2.5[6a]
(Not determined)	-	Bromoform	-		-	-
(Not determined)	-	Dibromochloromethane	-		-	-
(Not determined)	-	Bromodichloromethane	-		-	-
Non-hazardous pollutant	**Priority hazardous substance**	Di(2-ethylhexyl) phthalate (bis(2-ethylhexyl) phthalate, DEHP)	-	8[4]	1.3[6a]	1.3[6a]
(Not determined)	Specific pollutant	Benzyl butyl phthalate	-	-	7.5[6a]	0.75[6e]
Hazardous substance	**Priority hazardous substance**	Hexachlorobutadiene (as a pesticide, but reported in a VOC suite)	0.005[7]	0.1[2]	0.6[6c]	0.6[6c]
Semi-volatile organic compounds (SVOC)						
(Not determined) *Not to be confused with acenaphthene, which is a hazardous substance*	-	Acenaphthylene (Aro EC12-EC16)	-	-	5.8[10]	
Hazardous substance	**Priority hazardous substance**	Anthracene (Aro EC16-EC21)	-	-	0.1[6a]	0.1[6a]

Substance classification		Determinant	Target concentrations (µg/l)			
			Minimum reporting value	UK drinking water standard (or best equivalent)	EQS or best equivalent	
Groundwater receptors[5]	Surface water receptors[6]				Freshwater	Transitional (estuaries) and coastal waters
Non-hazardous pollutant	Priority substance	Naphthalene (Aro EC10-EC12)	-	-	2[6a]	2[6a]
Hazardous substance	Priority substance	Fluoranthene (Aro EC21-EC35) not used as an indicator for this EC band	-	-	0.0063[6a]	0.0063[6a]
Hazardous substance(s)	**Priority hazardous substance(s)**	Benzo(a)pyrene (Aro EC21-EC35)	-	0.01[2]	0.00017[6a]	0.00017[6a]
		Benzo(b)fluoranthene (Aro EC21-EC35)	-	0.1[2] sum of the concentration of the four specified compounds	No EQS for these substances. B(a)P should be used as the indicator compound instead.	
		Benzo(k)fluoranthene (Aro EC21-EC35)	-			
		Benzo(g,h,i)perylene (Aro EC21-EC35)	-			
		Indeno(1,2,3-cd) pyrene (Aro EC21-EC35)	-			
Non-hazardous pollutant	Specific pollutant	Phenol	-	-	7.7[6a]	7.7[6a]
Hazardous substance	Specific pollutant	2,4-Dichlorophenol	0.1[7]	-	4.2[6a]	0.42[6a]

Substance classification		Determinant	Target concentrations (µg/l)			
			Minimum reporting value	UK drinking water standard (or best equivalent)	EQS or best equivalent	
Groundwater receptors[5]	Surface water receptors[6]				Freshwater	Transitional (estuaries) and coastal waters
Hazardous substance	Priority substance	Pentachloro-phenol (PCP) (as a pesticide, but reported in an SVOC suite)	0.1[7]	0.1[2]	0.4[6a]	0.4[6a]
Petroleum hydrocarbons						
Hazardous substance	-	Total petroleum hydrocarbons	-	See Table 2 for individual (non-statutory) TPH CWG fractions with respect to drinking water receptors	See individual risk driving compounds (i.e. BTEX and PAH) for specific EQS	
Hazardous substance	Priority substance	Benzene (Aro EC5-EC7)	1[7]	1[2]	10[6a]	8[6a]
Hazardous substance	Specific pollutant	Toluene (Aro EC7-EC8)	4[7]	700[4]	74[6a]	74[6a]
Hazardous substance	-	Ethylbenzene (Aro EC8-EC10)	-	300[4]	300[11]	-
Hazardous substance	-	Xylenes (Aro EC8-EC10)	3[7]	500[4]	30[11]	-
Non-hazardous pollutant	-	Methyl tertiary butyl ether (MTBE)	-	15[12]	-	

Substance classification		Determinant	Target concentrations (µg/l)			
			Minimum reporting value	UK drinking water standard (or best equivalent)	EQS or best equivalent	
Groundwater receptors[5]	Surface water receptors[6]				Freshwater	Transitional (estuaries) and coastal waters
Pesticides, fungicides, insecticides and herbicides						
(Not determined) – assume to be Hazardous Substance as per below	-	Total pesticides	-	0.5[2]	-	-
(Not determined) - assume to be Hazardous Substance as per below	-	Other individual pesticides (unless otherwise detailed below)	-	0.1[2]	-	-
Hazardous substance(s)	Other pollutant (Cyclodiene pesticides)	Aldrin	0.003[7]	0.03[2]	0.01[6a] (sum of all four)	0.005[6a] (sum of all four)
		Dieldrin	0.003[7]	0.03[2]		
		Endrin	0.003[7]	0.1[2b] ('other individual pesticide')		
		Isodrin*[2]	0.003[7]	0.1[2b] ('other individual pesticide')		
Hazardous substance	Other pollutant	DDT (total)	0.002[7]	0.1[2] ('other individual pesticide')	0.025[6a]	0.025[6a]
Hazardous substance	Specific pollutant	Carbendazim	-	0.1[2] ('other individual pesticide')	0.15[6a]	-

Substance classification		Determinant	Target concentrations (µg/l)			
Groundwater receptors[5]	Surface water receptors[6]		Minimum reporting value	UK drinking water standard (or best equivalent)	EQS or best equivalent	
					Freshwater	Transitional (estuaries) and coastal waters
Hazardous substance	Specific pollutant	Chlorothalonil	-	0.1[2] ('other individual pesticide')	0.035[6a]	-
Hazardous substance	Priority substance	Cypermethrin	-	0.1[2] ('other individual pesticide')	8.0E^{-5}[6a]	8.0E^{-6}[6a]
Hazardous substance	Specific pollutant	Dimethoate	0.01[7]	0.1[2] ('other individual pesticide')	0.48[6a]	0.48[6a]
(Not determined)	Specific pollutant	Glyphosate	-	0.1[2] ('other individual pesticide')	196[6a]	196[6a]
Hazardous substance	Specific pollutant	Linuron	-	0.1[2] ('other individual pesticide')	0.5[6a]	0.5[6a]
Non-hazardous pollutant	Specific pollutant	Mecoprop	0.04[7]	0.1[2] ('other individual pesticide')	18[6a]	18[6a]
Non-hazardous pollutant	Specific pollutant	Methiocarb	-	0.1[2] ('other individual pesticide')	0.01[6a]	-
Non-hazardous pollutant	Specific pollutant	Pendimethalin	-	0.1[2] ('other individual pesticide')	0.3[6a]	-

Substance classification		Determinant	Target concentrations (µg/l)			
Groundwater receptors[5]	Surface water receptors[6]		Minimum reporting value	UK drinking water standard (or best equivalent)	EQS or best equivalent	
					Freshwater	Transitional (estuaries) and coastal waters
Hazardous substance	Specific pollutant	Permethrin	0.001[7]	0.1[2] ('other individual pesticide')	0.001[6a]	0.0002[6a]
Hazardous substance	Priority substance	Alachlor	-	0.1[2] ('other individual pesticide')	0.3[6a]	0.3[6a]
Hazardous substance	Priority substance	Atrazine	0.03[7]	100[4] ('other individual pesticide')	0.6[6a]	0.6[6a]
Hazardous substance	Priority substance	Diuron	-	0.1[2] ('other individual pesticide')	0.2[6a]	0.2[6a]
Hazardous substance	**Priority hazardous substance**	Endosulphan	0.005[7]	0.1[2] ('other individual pesticide')	0.005[6a]	0.0005[6a]
Non-hazardous pollutant	Priority substance	Isoproturon	-	0.1[2] ('other individual pesticide')	0.3[6a]	0.3[6a]
Hazardous substance	Priority substance	Simazine	0.03[7]	0.1[2] ('other individual pesticide')	1[6a]	1 [6a]
Hazardous substance	**Priority hazardous substance**	Trifluralin	0.01[7]	0.1[2] ('other individual pesticide')	0.03[6a]	0.03[6a]

Substance classification		Determinant	Target concentrations (µg/l)			
Groundwater receptors[5]	Surface water receptors[6]		Minimum reporting value	UK drinking water standard (or best equivalent)	EQS or best equivalent	
					Freshwater	Transitional (estuaries) and coastal waters
Hazardous substance	Priority substance	Dichlorvos	-	0.1[2] ('other individual pesticide')	$6.0E^{-4}$[6a]	$6.0E^{-5}$[6a]
Hazardous substance	Priority substance	Heptachlor and heptachlor epoxide	-	0.03[2]	$2.0E^{-7}$[6a]	$1.0E^{-08}$[6a]
Miscellaneous						
(Not determined)	Specific pollutant	Triclosan (antibacterial agent)	-	-	0.1[6a]	0.1[6a]
Hazardous substance	**Priority hazardous substance**	Perfluoro-octane sulfonic acid (and its derivatives) (PFOS)	-	-	$6.5E^{-4}$[6a]	$1.3E^{-4}$[6a]
Hazardous substance	**Priority hazardous substance**	Hexabromo cyclododecane (HBCDD)	-	-	0.0016[6a]	0.0008[6a]

Substance classification		Determinant	Target concentrations (µg/l)			
Groundwater receptors[5]	Surface water receptors[6]		Minimum reporting value	UK drinking water standard (or best equivalent)	EQS or best equivalent	
					Freshwater	Transitional (estuaries) and coastal waters

Notes:

'-' A target concentration is not available.

$Please note that total ammonia (NH_4^+ and NH_3) is equivalent to ammoniacal nitrogen in laboratory reports

*1 Please note that although iron is listed in the 2015 Direction as 1.000 µg/l, the EQS remains at 1mg/l in Scotland and it is assumed this is an error and should read either 1,000 or 1000µg/l.

*2 Please note that although Isodrin is not listed in name within the group of "Cyclodiene pesticides" in Table 1 of Schedule 3 Part 3 of the 2015 Direction[6], the CAS number for Isodrin (465-73-6) **is** listed and therefore it is assumed that it has been missed off the named list of substances.

*3 Total petroleum hydrocarbons is used for consistency, but is an analytical method-defined measurement for a mixture of hydrocarbons subject to environmental analysis[11].

"Bioavailable" in relation to copper, zinc, nickel and manganese (but not lead) is the generic EQSbioavailable[6a] derived from the Metal Bioavailability Assessment Tool (M-BAT) developed by the Water Framework Directive UK Technical Advisory Group (WFDTAG). Exceedance of this value should prompt a site-specific assessment using the M-BAT with pH, DOC and Ca to derive a site-specific EQS termed the $PNEC_{dissolved}$. http://www.wfduk.org/resources/rivers-lakes-metal-bioavailability-assessment-tool-m-bat.

For zinc, if there is an exceedance of the EQSbioavailable in an initial GQRA, Tier 2 required that the EQS for zinc should also have the ambient background concentration of zinc added as well

Table 2: World Health Organization (WHO) guide values for TPH CWG fractions in drinking water[13] (as referenced in CL:AIRE, 2017[11])

TPH CWG fraction	WHO guide value for drinking water[13] (µg/l)
Aliphatic fractions:	
Aliphatic EC5-EC6	15,000
Aliphatic >EC6-EC8	15,000
Aliphatic >EC8-EC10	300
Aliphatic >EC10-EC12	300
Aliphatic >EC12-EC16	300
Aliphatic >EC16-EC21	-
Aliphatic >EC21-EC35	-
Aromatic fractions:	
Aromatic EC5-EC6	10 (benzene)
Aromatic >EC6-EC8	700 (toluene)
Aromatic >EC8-EC10	300 (ethyl benzene) 500 (xylenes)
Aromatic >EC10-EC12	90
Aromatic >EC12-EC16	90
Aromatic >EC16-EC21	90
Aromatic >EC21-EC35	90
Reference: World Health Organisation (WHO), 2008. Petroleum products in drinking-water. Background document for development of WHO guidelines for drinking water quality. WHO/SDE/WSH/05.08/123. World Health Organisation, Geneva[13].	

References

1. Environment Agency (2018), 'The Environment Agency's approach to groundwater protection', version 1.2, February 2018 (formerly contained within GP3). https://www.gov.uk/government/collections/groundwater-protection

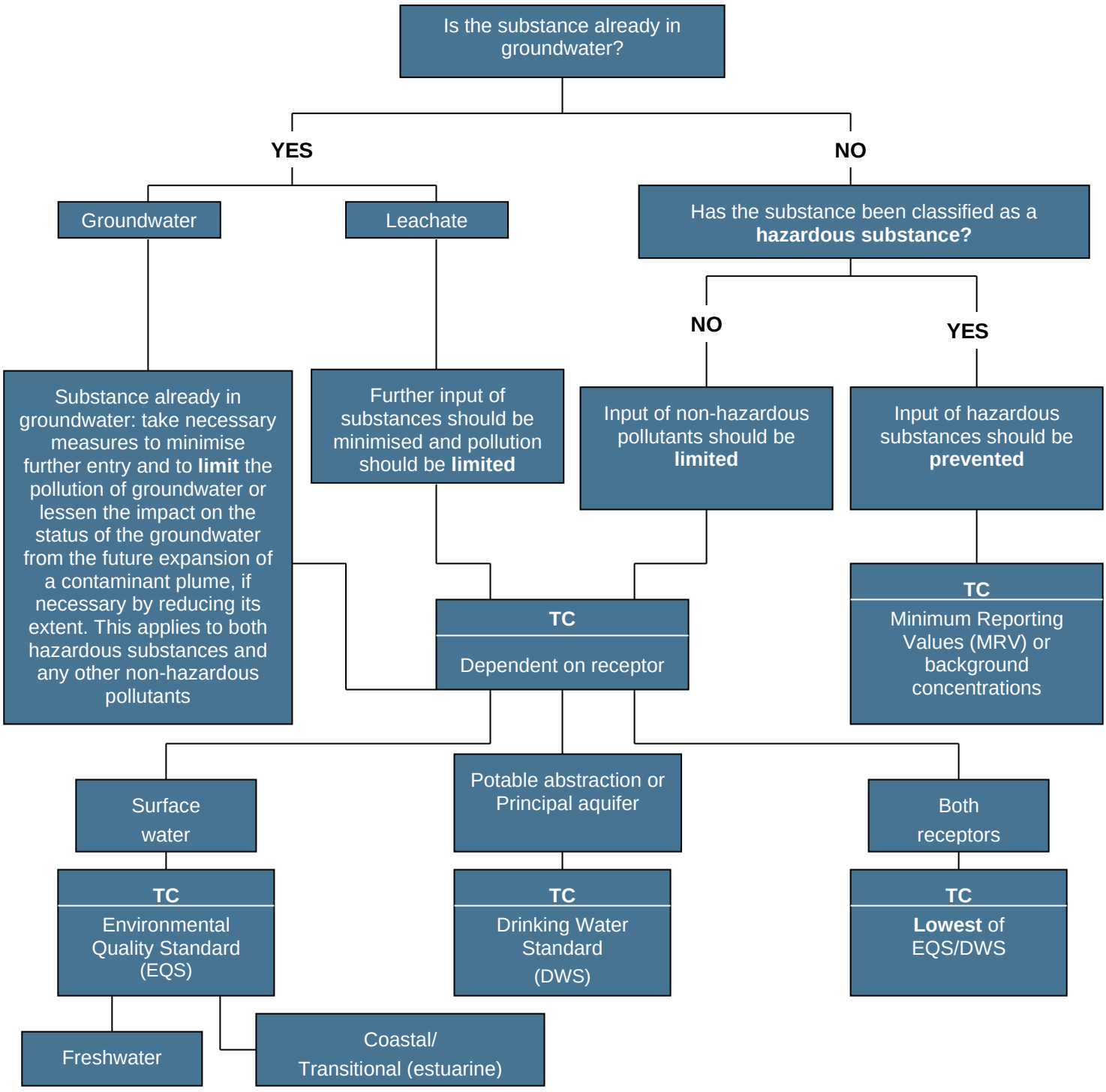
1a. Environment Agency (2017), 'Land contamination groundwater compliance points: quantitative risk assessments', March 2017 (formerly contained within GP3) [accessed 29 March 2017]. https://www.gov.uk/government/collections/groundwater-protection

2. The Water Supply (Water Quality) Regulations 2016 (SI 2016/619)
    - 2a. Sum of chloroform, bromoform, dibromochloromethane and bromodichloromethane
    - 2b. Standard applies to individual pesticides except aldrin, dieldrin, heptachlor and heptachlor epoxide, for which a separate standard is defined.
3. The Private Water Supplies (England) Regulations 2016. SI 2016 / 618
4. WHO (2011), *Guidelines for drinking-water quality*, 4th edn
5. JAGDAG hazard substance determinations (January 2019): This list contains substances that are determined to be hazardous substances or non-hazardous pollutants for the purposes of the groundwater directive 2006/118/EC. https://www.wfduk.org/stakeholders/jagdag [accessed 1 February 2021]
   The absence of an assessment or substance from the list means an assessment has not been completed and is therefore presented as 'Not determined'. For further details on how substances are assessed, see the Joint Agencies Groundwater Directive Advisory Group (JAGDAG) 'Methodology for the determination of hazardous substances in groundwater for the purposes of the groundwater directive 2006/118/EC' which is available from the JAGDAG website. The methodology is a UK –wide framework that sets criteria for how to assess whether a substance is a hazardous substances in groundwater.
6. The Water Framework Directive (Standards and Classification) Directions (England and Wales) 2015.
    - 6a. The EQS for these substances are based on a "long term mean" or an "annual average (AA)" EQS.
    - 6b. For cadmium and its compounds the EQS values vary depending on the hardness of the water as specified in five class categories (Class 1: < 40 mg CaCO3/l, Class 2: 40 to < 50 mg CaCO3/l, Class 3: 50 to < 100 mg CaCO3/l, Class 4: 100 to < 200 mg CaCO3/l and Class 5: ≥ 200 mg CaCO3/l).
    - 6c. The EQS for Mercury and hexachlorobutadiene are based on a "maximum acceptable concentration (MAC)" EQS in absence of an "annual average (AA)" EQS.
    - 6d. The EQS for chlorine in saltwater is based on the 95th percentile concentration of total residual oxidant, which refers to the sum of all oxidising agents existing in water, expressed as available chlorine.
    - 6e. The recommended saltwater standard is derived using a safety factor of 100. Where the standard is failed, it is recommended that supporting evidence of ecological damage should be obtained before committing to expensive action.
    - 6f. EQS for total ammonia is as per Schedule 3, Part 1, Table 7 of of the above directions. EQS applies to river types 1, 2 and 4 and 6 (namely upland and low alkalinity). The EQS for a lowland and high alkalinity rivers (types 3, 5 and 7) is 600µg/l (0.6mg/l).

   Additional information on the Metal Bioavailability Assessment Tool (M-BAT) is available at http://www.wfduk.org/resources/rivers-lakes-metal-bioavailability-assessment-tool-m-bat

7. Minimum reporting values listed at https://www.gov.uk/government/publications/values-for-groundwater-risk-assessments/hazardous-substances-to-groundwater-minimum-reporting-values (updated 13 January 2017; accessed 29 March 2017). Note target concentration for xylenes is 3 μg/l each for o-xylene and m/p xylene as it may not be possible to separate m- and p-xylene; 135 tcb, 124 tcb, 123 tcb each to 0.01 μg/l)
8. The Surface Waters (Abstraction for Drinking Water) (Classification) Regulations 1996 (as amended). SI 1996 / 3001
9. Council Directive on the Quality of Fresh Waters Needing Protection or Improvement in Order to Support Fish Life (Freshwater Fish Directive) (78/659/EEC)
10. WRc plc (2002), R&D Technical Report P45.
11. CL:AIRE, 2017. Petroleum Hydrocarbons in Groundwater: Guidance on assessing petroleum hydrocarbons using existing hydrogeological risk assessment methodologies. V1.1.
12. Drinking Water Inspectorate (London, UK). Environmental Information Request on MTBE in drinking water. Ref. DWI 1/10/18; dated 28 November 2006. Value is based on the odour threshold for MTBE, which is lower than a health-based guideline value
13. World Health Organisation (WHO), 2008. Petroleum products in drinking-water. Background document for development of WHO guidelines for drinking water quality. WHO/SDE/WSH/05.08/123. World Health Organisation, Geneva. [accessed 29 March 2017] http://www.who.int/water_sanitation_health/dwq/chemicals/petroleumproducts_2add_june2008.pdf

FLOW CHART TO ASSIST WITH SELECTION OF TARGET CONCENTRATIONS



TC = Target concentration

When leachate is being assessed the 'compliance point' is the groundwater body. Therefore dilution within the groundwater body may be applied with caution before comparing with the TC.

When directly assessing a receptor, e.g., a river, the appropriate TC should be selected.

APPENDIX J
GQRA DATA SCREENING TABLES – SOILS INCLUDING PROJECT CRONUS

COPC	Chemtest Job No.	24-18337	24-18337	24-18337	24-18337	24-18337	24-18337	24-18337	24-18339	24-18339	24-18339	24-18339	24-18339
	Chemtest Sample ID	1819250	1819251	1819252	1819253	1819254	1819255	1819256	1819263	1819264	1819265	1819266	1819267
	Client sample ref.												
	Sample location	BH323	BH317	BH317	BH317	BH317	BH317	BH317	BH322	BH322	BH322	BH322	BH322
	Top depth (m)	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top depth (m)	0.30	2.2	1.5	0.70	6.50	3.3	4.10	0.20	1.10	1.60	4.40	7.00
	Depth to bottom (m)												
	Date sampled	03/05/2024	07/06/2024	07/06/2024	07/06/2024	07/06/2024	07/06/2024	07/06/2024	07/05/2024	07/05/2024	07/05/2024	07/05/2024	07/05/2024
	RSK Commercial GAC 1% som (mg/kg)												
ACM Type	na	-	-	-	-	-	-	-	-	-	-	-	-
Asbestos Identification	na	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Asbestos by Gravimetry	na												
Total Asbestos	na												
Moisture	na	2.4	16	8.6	7.5	18	27	20	6	12	11	19	57
Soil Colour	na	Black	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material	na	Stones	Stones	Stones	Stones	None	Stones	Stones	Stones	Stones	None	None	Stones and Wood
Soil Texture	na	Sand	Sand	Sand	Sand	Clay	Sand	Clay	Sand	Sand	Sand	Clay	Clay
pH at 20C	na	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	640	2.6	9	14	5.7	18	11	21	3.1	6.6	8.6	13	6.8
Cadmium	410	0.64	< 0.10	0.56	0.4	< 0.10	< 0.10	0.22	0.13	< 0.10	< 0.10	< 0.10	< 0.10
Chromium	8600	200	29	1100	1400	36	43	18	680	270	17	40	15
Copper	68000	14	3.4	52	42	11	40	27	24	23	2.7	12	4.7
Mercury	1120	< 0.05	< 0.05	0.1	0.07	< 0.05	0.09	< 0.05	0.05	0.05	< 0.05	< 0.05	< 0.05
Nickel	980	7.3	4.5	34	20	33	36	20	14	8.7	4.5	34	14
Lead	2300	25	11	60	64	22	24	27	62	29	5.2	27	8.9
Selenium	12000	< 0.25	0.39	1.7	0.72	0.72	0.75	0.52	3.3	4.4	< 0.25	0.78	0.34
Zinc	740000	67	22	190	200	92	89	85	110	47	19	97	37
Chromium (Hexavalent)	49	< 0.50	< 0.50	< 0.50	0.66	< 0.50	< 0.50	< 0.50	-	-	-	-	-
Aliphatic VPH >C5-C6	3200	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	na	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	na	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	7800	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	2000	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	na	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	9700	4.4	5.6	7.4	5.9	3.3	9.4	6.4	2.7	4.4	2.5	3.2	7
Aliphatic EPH >C12-C16 MC	59000	3.1	6.3	12	6.1	1.2	6.1	4.8	< 1.0	1.1	< 1.0	1.1	2
Aliphatic EPH >C16-C21 MC	na	11	2.9	35	74	< 2.0	3.5	3.4	< 2.0	< 2.0	< 2.0	< 2.0	8.8
Aliphatic EPH >C21-C35 MC	1000000	180	< 3.0	280	880	< 3.0	< 3.0	10	< 3.0	13	3.6	3.1	32
Aliphatic EPH >C35-C40 MC	1000000	< 10	< 10	32	110	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Total Aliphatic EPH >C10-C35 MC	na	200	15	340	970	5.5	19	25	< 5.0	19	7.1	7.4	50
Total Aliphatic EPH >C10-C40 MC	na	200	15	370	1100	< 10	19	25	< 10	19	< 10	< 10	50
Aromatic VPH >C5-C7	27	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	6000	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	3500	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	na	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	16000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	36000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2.2	< 1.0	< 1.0	< 1.0	< 1.0	2.8
Aromatic EPH >C16-C21 MC	28000	6.7	3	3.6	6.5	3.3	3.8	3.4	3.7	2.8	2.1	3.7	130
Aromatic EPH >C21-C35 MC	28000	5.9	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	19	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Aromatic EPH >C35-C40 MC	28000	2.5	1.1	16	42	< 1.0	1.2	33	1.2	< 1.0	< 1.0	< 1.0	94
Total Aromatic EPH >C10-C35 MC	na	13	< 5.0	< 5.0	6.5	< 5.0	< 5.0	24	< 5.0	< 5.0	< 5.0	< 5.0	140
Total Aromatic EPH >C10-C40 MC	na	15	< 10	16	49	< 10	< 10	57	< 10	< 10	< 10	< 10	230
Total VPH >C5-C10	na	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	na	210	18	340	980	< 10	24	49	< 10	22	< 10	11	190
Total EPH >C10-C40 MC	na	220	19	390	1100	< 10	25	82	< 10	22	< 10	11	280
Naphthalene	1800	< 0.10	< 0.10	< 0.10	0.59	< 0.10	2.3	< 0.10	-	-	-	-	-
Acenaphthylene	110000	< 0.10	< 0.10	< 0.10	0.18	< 0.10	0.41	< 0.10	-	-	-	-	-
Acenaphthene	110000	< 0.10	< 0.10	< 0.10	0.21	< 0.10	0.81	< 0.10	-	-	-	-	-
Fluorene	63000	< 0.10	< 0.10	< 0.10	0.23	< 0.10	1	< 0.10	-	-	-	-	-
Phenanthrene	22000	< 0.10	0.33	< 0.10	0.81	< 0.10	2.6	< 0.10	-	-	-	-	-
Anthracene	520000	< 0.10	< 0.10	< 0.10	0.15	< 0.10	0.15	< 0.10	-	-	-	-	-
Fluoranthene	23000	< 0.10	0.46	< 0.10	0.74	< 0.10	0.7	< 0.10	-	-	-	-	-
Pyrene	54000	< 0.10	0.46	< 0.10	1.2	< 0.10	0.69	< 0.10	-	-	-	-	-
Benzoanthracene	170	< 0.10	0.45	< 0.10	1.6	< 0.10	0.2	< 0.10	-	-	-	-	-
Chrysene	350	< 0.10	0.75	< 0.10	3.2	< 0.10	0.71	< 0.10	-	-	-	-	-
Benzofluoranthene	44	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	-	-	-	-	-
Benzo(k)fluoranthene	1200	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	-	-	-	-	-
Benzopyrene	77	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	-	-	-	-	-
Indeno(1,2,3-c,d)Pyrene	500	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	-	-	-	-	-
Dibenz(a,h)Anthracene	3.5	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	-	-	-	-	-
Benzo[g,h,i]perylene	3900	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	-	-	-	-	-
Total Of 16 PAH's	na	< 2.0	2.5	< 2.0	8.8	< 2.0	9.5	< 2.0	-	-	-	-	-
Dichlorodifluoromethane	na	-	-	-	-	-	-	-	-	-	-	-	-
Chloromethane	1	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	1.1	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane	na	-	-	-	-	-	-	-	-	-	-	-	-
Chloroethane	901	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane		-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	24	-	-	-	-	-	-	-	-	-	-	-	-
Dichloromethane	257	-	-	-	-	-	-	-	-	-	-	-	-
Trans 1,2-Dichloroethene	21	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	na	-	-	-	-	-	-	-	-	-	-	-	-
cis 1,2-Dichloroethene	14	-	-	-	-	-	-	-	-	-	-	-	-
Bromochloromethane	na	-	-	-	-	-	-	-	-	-	-	-	-
Trichloromethane	na	-	-	-	-	-	-	-	-	-	-	-	-
1,1,1-Trichloroethane	700	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloromethane	2.9	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloropropene	na	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	27	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	0.67	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	0.7	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	3	-	-	-	-	-	-	-	-	-	-	-	-
Dibromomethane	na	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	na	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	na	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	56000	-	-	-	-	-	-	-	-	-	-	-	-
Trans-1,3-Dichloropropene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	89	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	24	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichloropropane	na	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	na	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromoethane	na	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,1,1,2-Tetrachloroethane	110	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	6000	-	-	-	-	-	-	-	-	-	-	-	-
m & p-Xylene	5900	-	-	-	-	-	-	-	-	-	-	-	-
o-Xylene	6600	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	na	-	-	-	-	-	-	-	-	-	-	-	-
Tribromomethane	na	-	-	-	-	-	-	-	-	-	-	-	-
Isopropylbenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
Bromobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3-Trichloropropane	na	-	-	-	-	-	-	-	-	-	-	-	-
N-Propylbenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
2-Chlorotoluene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,3,5-Trimethylbenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
4-Chlorotoluene	na	-	-	-	-	-	-	-	-	-	-	-	-
Tert-Butylbenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trimethylbenzene	330	-	-	-	-	-	-	-	-	-	-	-	-
Sec-Butylbenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
4-Isopropyltoluene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
N-Butylbenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromo-3-Chloropropane	na	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3-Trichlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Tert-Butyl Ether	7500	-	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodimethylamine	na	-	-	-	-	-	-	-	-	-	-	-	-
Phenol	440	-	-	-	-	-	-	-	-	-	-	-	-
2-Chlorophenol	na	-	-	-	-	-	-	-	-	-	-	-	-
Bis-(2-Chloroethyl)Ether	na	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
2-Methylphenol	na	-	-	-	-	-	-	-	-	-	-	-	-

Bis(2-Chloroisopropyl)Ether	na	-	-	-	-	-	-	-	-	-	-	-	-
Hexachloroethane	21	-	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	na	-	-	-	-	-	-	-	-	-	-	-	-
4-Methylphenol	na	-	-	-	-	-	-	-	-	-	-	-	-
Nitrobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
Isophorone	na	-	-	-	-	-	-	-	-	-	-	-	-
2-Nitrophenol	na	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	na	-	-	-	-	-	-	-	-	-	-	-	-
Bis(2-Chloroethoxy)Methane	na	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	na	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	1800	-	-	-	-	-	-	-	-	-	-	-	-
4-Chloroaniline	na	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	na	-	-	-	-	-	-	-	-	-	-	-	-
4-Chloro-3-Methylphenol	na	-	-	-	-	-	-	-	-	-	-	-	-
2-Methylnaphthalene	na	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	na	-	-	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	na	-	-	-	-	-	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	na	-	-	-	-	-	-	-	-	-	-	-	-
2-Chloronaphthalene	370	-	-	-	-	-	-	-	-	-	-	-	-
2-Nitroaniline	na	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	110000	-	-	-	-	-	-	-	-	-	-	-	-
Dimethylphthalate	na	-	-	-	-	-	-	-	-	-	-	-	-
2,6-Dinitrotoluene	na	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthene	110000	-	-	-	-	-	-	-	-	-	-	-	-
3-Nitroaniline	na	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	na	-	-	-	-	-	-	-	-	-	-	-	-
4-Chlorophenylphenylether	na	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrotoluene	na	-	-	-	-	-	-	-	-	-	-	-	-
Fluorene	63000	-	-	-	-	-	-	-	-	-	-	-	-
Diethyl Phthalate	na	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitroaniline	na	-	-	-	-	-	-	-	-	-	-	-	-
Azobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
4-Bromophenylphenyl Ether	na	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	22000	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene	520000	-	-	-	-	-	-	-	-	-	-	-	-
Carbazole	na	-	-	-	-	-	-	-	-	-	-	-	-
Di-N-Butyl Phthalate	na	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	23000	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene	54000	-	-	-	-	-	-	-	-	-	-	-	-
Butylbenzyl Phthalate	na	-	-	-	-	-	-	-	-	-	-	-	-
Benzoanthracene	170	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	350	-	-	-	-	-	-	-	-	-	-	-	-
Bis(2-Ethylhexyl)Phthalate	na	-	-	-	-	-	-	-	-	-	-	-	-
Di-N-Octyl Phthalate	na	-	-	-	-	-	-	-	-	-	-	-	-
Benzofluoranthene	na	-	-	-	-	-	-	-	-	-	-	-	-
Benzo[k]fluoranthene	1200	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	77	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-c,d)Pyrene	500	-	-	-	-	-	-	-	-	-	-	-	-
Dibenz(a,h)Anthracene	3.5	-	-	-	-	-	-	-	-	-	-	-	-
Benzo[g,h,i]perylene	3900	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	1800	-	-	-	-	-	-	-	0.33	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	110000	-	-	-	-	-	-	-	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	110000	-	-	-	-	-	-	-	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	63000	-	-	-	-	-	-	-	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	22000	-	-	-	-	-	-	-	0.36	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	520000	-	-	-	-	-	-	-	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	23000	-	-	-	-	-	-	-	0.39	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene	54000	-	-	-	-	-	-	-	0.35	< 0.10	< 0.10	< 0.10	< 0.10
Benzoanthracene	170	-	-	-	-	-	-	-	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene	350	-	-	-	-	-	-	-	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzofluoranthene	44	-	-	-	-	-	-	-	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	1200	-	-	-	-	-	-	-	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzopyrene	77	-	-	-	-	-	-	-	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	500	-	-	-	-	-	-	-	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	3.5	-	-	-	-	-	-	-	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	3900	-	-	-	-	-	-	-	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's	na	-	-	-	-	-	-	-	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0

Notes:

LMDL Laboratory method detection limit

< Result less than the LMDL

GAC generic assessment criteria

- COPC not analysed

Measured concentration in excess of GAC

COPC	Chemtest Job No.	24-18339	24-19025	24-19025	24-19025	24-19025	24-19025	24-19025	24-19335	24-19335	24-19915	24-19915	24-19915
	Chemtest Sample ID	1819268	1821789	1821790	1821791	1821792	1821793	1821794	1822927	1822928	1825240	1825242	1825243
	Client sample ref.												
	Sample location	BH322	BH317	BH317	BH317	BH324	BH324	BH324	BH324	BH324	BH319	BH319	BH319
	Top depth (m)	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top depth (m)	12.00	10.50	14.00	17.50	0.20	0.70	3.50	4.80	7.00	0.50	2.50	450
	Depth to bottom (m)												
	Date sampled	07/05/2024	12/06/2024	12/06/2024	12/06/2024	12/06/2024	12/06/2024	12/06/2024	14/06/2024	14/06/2024	19/06/2024	19/06/2024	19/06/2024
	RSK Commercial GAC 1% som (mg/kg)												
ACM Type	na	-	-	-	-	-	-	-	-	-	Fibres/Clumps	-	-
Asbestos Identification	na	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	Amosite	No Asbestos Detected	No Asbestos Detected
Asbestos by Gravimetry	na										0.004		
Total Asbestos	na										0.004		
Moisture	na	13	17	7.9	16	7.1	10	20	22	39	10	20	21
Soil Colour	na	Brown	Grey	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material	na	Stones	None	Stones	None	Stones	Stones	None	None	Wood and Stones	Stones and Roots	None	None
Soil Texture	na	Sand	Clay	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Loam	Sand	Clay
pH at 20C	na	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	640	11	4.3	7.1	9.1	6	16	22	7.3	18	4.3	7.5	16
Cadmium	410	< 0.10	< 0.10	< 0.10	< 0.10	0.33	0.14	0.28	< 0.10	< 0.10	0.14	< 0.10	< 0.10
Chromium	8600	19	14	10	11	450	120	18	7.8	17	47	9.5	34
Copper	68000	14	5.6	14	9.3	24	36	42	3.5	7.3	7.4	1.3	12
Mercury	1120	< 0.05	< 0.05	< 0.05	< 0.05	0.06	0.05	< 0.05	< 0.05	< 0.05	1.9	0.05	< 0.05
Nickel	980	35	13	18	24	16	17	15	6.8	12	6.1	3	34
Lead	2300	14	7.6	11	8.8	49	46	40	6.6	11	57	4.5	23
Selenium	12000	0.5	< 0.25	< 0.25	0.3	1.2	1.6	0.76	< 0.25	0.32	1	< 0.25	< 0.25
Zinc	740000	82	38	63	83	140	79	92	26	43	110	9.8	88
Chromium (Hexavalent)	49	-	-	-	-	-	-	-	-	-	-	-	-
Aliphatic VPH >C5-C6	3200	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	na	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	na	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	7800	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	2000	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	na	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	9700	3.7	3	2.8	< 2.0	6.7	6.2	6.2	9.7	5.4	7.8	10	8.2
Aliphatic EPH >C12-C16 MC	59000	1.2	1.1	1	1.1	1.8	2.1	4.1	10	1.4	3.2	11	3.4
Aliphatic EPH >C16-C21 MC	na	< 2.0	< 2.0	< 2.0	< 2.0	4.5	2.1	< 2.0	7.2	9.7	< 2.0	18	< 2.0
Aliphatic EPH >C21-C35 MC	1000000	12	< 3.0	< 3.0	< 3.0	280	6.5	4.5	14	45	< 3.0	68	4.9
Aliphatic EPH >C35-C40 MC	1000000	< 10	< 10	< 10	< 10	10	< 10	< 10	< 10	< 10	< 10	17	< 10
Total Aliphatic EPH >C10-C35 MC	na	17	5.6	< 5.0	< 5.0	290	17	17	42	61	12	110	17
Total Aliphatic EPH >C10-C40 MC	na	17	< 10	< 10	< 10	300	17	17	42	61	12	120	17
Aromatic VPH >C5-C7	27	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	6000	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	3500	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	na	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	16000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2	1.2
Aromatic EPH >C12-C16 MC	36000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.5	< 1.0	1.3	< 1.0
Aromatic EPH >C16-C21 MC	28000	2.1	3.4	2.6	3.1	3.8	< 2.0	2.7	2.8	32	< 2.0	3.2	< 2.0
Aromatic EPH >C21-C35 MC	28000	< 2.0	2.1	< 2.0	< 2.0	2.8	< 2.0	7.4	< 2.0	< 2.0	< 2.0	24	< 2.0
Aromatic EPH >C35-C40 MC	28000	1.7	< 1.0	< 1.0	< 1.0	4.8	28	2.1	3.9	200	< 1.0	4.1	1.5
Total Aromatic EPH >C10-C35 MC	na	< 5.0	5.5	< 5.0	< 5.0	6.6	< 5.0	10	< 5.0	34	< 5.0	30	< 5.0
Total Aromatic EPH >C10-C40 MC	na	< 10	< 10	< 10	< 10	11	28	12	< 10	230	< 10	34	< 10
Total VPH >C5-C10	na	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	na	19	11	< 10	< 10	300	18	27	45	96	14	140	19
Total EPH >C10-C40 MC	na	20	11	< 10	< 10	310	46	29	49	300	14	160	20
Naphthalene	1800	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	110000	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthene	110000	-	-	-	-	-	-	-	-	-	-	-	-
Fluorene	63000	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	22000	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene	520000	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	23000	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene	54000	-	-	-	-	-	-	-	-	-	-	-	-
Benzoanthracene	170	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	350	-	-	-	-	-	-	-	-	-	-	-	-
Benzofluoranthene	44	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	1200	-	-	-	-	-	-	-	-	-	-	-	-
Benzopyrene	77	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-c,d)Pyrene	500	-	-	-	-	-	-	-	-	-	-	-	-
Dibenz(a,h)Anthracene	3.5	-	-	-	-	-	-	-	-	-	-	-	-
Benzo[g,h,i]perylene	3900	-	-	-	-	-	-	-	-	-	-	-	-
Total Of 16 PAH's	na	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane	na	-	-	-	-	-	-	-	-	-	-	-	-
Chloromethane	1	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	1.1	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane	na	-	-	-	-	-	-	-	-	-	-	-	-
Chloroethane	901	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane		-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	24	-	-	-	-	-	-	-	-	-	-	-	-
Dichloromethane	257	-	-	-	-	-	-	-	-	-	-	-	-
Trans 1,2-Dichloroethene	21	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	na	-	-	-	-	-	-	-	-	-	-	-	-
cis 1,2-Dichloroethene	14	-	-	-	-	-	-	-	-	-	-	-	-
Bromochloromethane	na	-	-	-	-	-	-	-	-	-	-	-	-
Trichloromethane	na	-	-	-	-	-	-	-	-	-	-	-	-
1,1,1-Trichloroethane	700	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloromethane	2.9	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloropropene	na	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	27	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	0.67	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	0.7	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	3	-	-	-	-	-	-	-	-	-	-	-	-
Dibromomethane	na	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	na	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	na	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	56000	-	-	-	-	-	-	-	-	-	-	-	-
Trans-1,3-Dichloropropene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	89	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	24	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichloropropane	na	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	na	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromoethane	na	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,1,1,2-Tetrachloroethane	110	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	6000	-	-	-	-	-	-	-	-	-	-	-	-
m & p-Xylene	5900	-	-	-	-	-	-	-	-	-	-	-	-
o-Xylene	6600	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	na	-	-	-	-	-	-	-	-	-	-	-	-
Tribromomethane	na	-	-	-	-	-	-	-	-	-	-	-	-
Isopropylbenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
Bromobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3-Trichloropropane	na	-	-	-	-	-	-	-	-	-	-	-	-
N-Propylbenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
2-Chlorotoluene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,3,5-Trimethylbenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
4-Chlorotoluene	na	-	-	-	-	-	-	-	-	-	-	-	-
Tert-Butylbenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trimethylbenzene	330	-	-	-	-	-	-	-	-	-	-	-	-
Sec-Butylbenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
4-Isopropyltoluene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
N-Butylbenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromo-3-Chloropropane	na	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3-Trichlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Tert-Butyl Ether	7500	-	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodimethylamine	na	-	-	-	-	-	-	-	-	-	-	-	-
Phenol	440	-	-	-	-	-	-	-	-	-	-	-	-
2-Chlorophenol	na	-	-	-	-	-	-	-	-	-	-	-	-
Bis-(2-Chloroethyl)Ether	na	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
2-Methylphenol	na	-	-	-	-	-	-	-	-	-	-	-	-

Bis(2-Chloroisopropyl)Ether	na	-	-	-	-	-	-	-	-	-	-	-	-
Hexachloroethane	21	-	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	na	-	-	-	-	-	-	-	-	-	-	-	-
4-Methylphenol	na	-	-	-	-	-	-	-	-	-	-	-	-
Nitrobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
Isophorone	na	-	-	-	-	-	-	-	-	-	-	-	-
2-Nitrophenol	na	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	na	-	-	-	-	-	-	-	-	-	-	-	-
Bis(2-Chloroethoxy)Methane	na	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	na	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	1800	-	-	-	-	-	-	-	-	-	-	-	-
4-Chloroaniline	na	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	na	-	-	-	-	-	-	-	-	-	-	-	-
4-Chloro-3-Methylphenol	na	-	-	-	-	-	-	-	-	-	-	-	-
2-Methylnaphthalene	na	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	na	-	-	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	na	-	-	-	-	-	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	na	-	-	-	-	-	-	-	-	-	-	-	-
2-Chloronaphthalene	370	-	-	-	-	-	-	-	-	-	-	-	-
2-Nitroaniline	na	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	110000	-	-	-	-	-	-	-	-	-	-	-	-
Dimethylphthalate	na	-	-	-	-	-	-	-	-	-	-	-	-
2,6-Dinitrotoluene	na	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthene	110000	-	-	-	-	-	-	-	-	-	-	-	-
3-Nitroaniline	na	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	na	-	-	-	-	-	-	-	-	-	-	-	-
4-Chlorophenylphenylether	na	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrotoluene	na	-	-	-	-	-	-	-	-	-	-	-	-
Fluorene	63000	-	-	-	-	-	-	-	-	-	-	-	-
Diethyl Phthalate	na	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitroaniline	na	-	-	-	-	-	-	-	-	-	-	-	-
Azobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
4-Bromophenylphenyl Ether	na	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	22000	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene	520000	-	-	-	-	-	-	-	-	-	-	-	-
Carbazole	na	-	-	-	-	-	-	-	-	-	-	-	-
Di-N-Butyl Phthalate	na	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	23000	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene	54000	-	-	-	-	-	-	-	-	-	-	-	-
Butylbenzyl Phthalate	na	-	-	-	-	-	-	-	-	-	-	-	-
Benzoanthracene	170	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	350	-	-	-	-	-	-	-	-	-	-	-	-
Bis(2-Ethylhexyl)Phthalate	na	-	-	-	-	-	-	-	-	-	-	-	-
Di-N-Octyl Phthalate	na	-	-	-	-	-	-	-	-	-	-	-	-
Benzofluoranthene	na	-	-	-	-	-	-	-	-	-	-	-	-
Benzo[k]fluoranthene	1200	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	77	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-c,d)Pyrene	500	-	-	-	-	-	-	-	-	-	-	-	-
Dibenz(a,h)Anthracene	3.5	-	-	-	-	-	-	-	-	-	-	-	-
Benzo[g,h,i]perylene	3900	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	1800	< 0.10	< 0.10	< 0.10	< 0.10	0.41	< 0.10	< 0.10	< 0.10	< 0.10	3.5	0.1	0.7
Acenaphthylene	110000	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	1.2	< 0.10	< 0.10
Acenaphthene	110000	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	1.1	< 0.10	0.12
Fluorene	63000	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.93	< 0.10	0.15
Phenanthrene	22000	0.17	< 0.10	< 0.10	< 0.10	0.42	< 0.10	0.59	< 0.10	< 0.10	2	< 0.10	0.82
Anthracene	520000	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.67	< 0.10	0.19
Fluoranthene	23000	0.15	< 0.10	< 0.10	< 0.10	0.38	< 0.10	0.27	< 0.10	0.28	2.6	< 0.10	0.31
Pyrene	54000	0.14	< 0.10	< 0.10	< 0.10	0.3	< 0.10	0.25	< 0.10	0.26	1.9	< 0.10	0.22
Benzoanthracene	170	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	1.3	< 0.10	0.16
Chrysene	350	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	1.6	< 0.10	0.2
Benzofluoranthene	44	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	2.6	< 0.10	0.24
Benzo[k]fluoranthene	1200	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.83	< 0.10	0.22
Benzopyrene	77	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	1.5	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	500	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	1.6	< 0.10	0.19
Dibenz(a,h)Anthracene	3.5	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.33	< 0.10	< 0.10
Benzo[g,h,i]perylene	3900	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	1.3	< 0.10	0.18
Total Of 16 PAH's	na	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	25	< 2.0	3.7

Notes:

LMDL Laboratory method detection limit

< Result less than the LMDL

GAC generic assessment criteria

- COPC not analysed

Measured concentration in excess of GAC

COPC	Chemtest Job No.	24-19915	24-19915	24-19915	24-21511	24-21511	24-21511	24-21511	24-21511	24-21979	24-21979	24-21979	24-21979
	Chemtest Sample ID	1825245	1825246	1825247	1831342	1831343	1831344	1831345	1831346	1833600	1833601	1833602	1833603
	Client sample ref.				ES	ES	ES	ES	ES	2	3	4	5
	Sample location	BH320	BH320	BH320	BH331	BH331	BH329	BH328	BH328	BH312	BH312	BH312	BH312
	Top depth (m)	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top depth (m)	0.50	1.50	3.60	0.4	2.0	4.5	0.5	1.5	1.50	2.70	3.70	6.00
	Depth to bottom (m)												
	Date sampled	19/06/2024	19/06/2024	19/06/2024	04/07/2024	04/07/2024	04/07/2024	04/07/2024	04/07/2024	08/07/2024	08/07/2024	08/07/2024	08/07/2024
	RSK Commercial GAC 1% som (mg/kg)												
ACM Type	na	-	-	-	-	-	-	-	-	-	-	-	-
Asbestos Identification	na	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Asbestos by Gravimetry	na												
Total Asbestos	na												
Moisture	na	4.5	19	24	8.4	5.9	5	4.1	19	8.8	8	21	15
Soil Colour	na	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Grey	Brown	Brown	Brown
Other Material	na	Stones	Stones	Roots	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones
Soil Texture	na	Loam	Clay	Clay	Loam	Sand	Sand	Loam	Loam	Sand	Sand	Sand	Sand
pH at 20C	na	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	640	6.4	9.9	15	2.9	9	6.3	4.1	8.2	7.8	9.3	15	14
Cadmium	410	< 0.10	< 0.10	< 0.10	0.6	< 0.10	0.18	0.45	< 0.10	< 0.10	0.49	0.43	< 0.10
Chromium	8600	26	46	29	550	19	170	1300	56	9.9	460	360	19
Copper	68000	42	13	8.8	32	2.7	24	44	8.7	1.8	51	29	7.2
Mercury	1120	0.08	0.12	< 0.05	< 0.05	< 0.05	0.05	< 0.05	< 0.05	< 0.05	0.12	< 0.05	0.05
Nickel	980	11	18	31	23	4.9	9.9	27	9.4	7.2	22	17	13
Lead	2300	42	25	18	24	5.9	36	23	14	3.1	200	43	6
Selenium	12000	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	0.29	0.61	< 0.25
Zinc	740000	73	64	73	500	15	75	130	34	14	460	140	35
Chromium (Hexavalent)	49	-	-	-	-	-	-	-	-	0.89	0.61	< 0.50	< 0.50
Aliphatic VPH >C5-C6	3200	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	na	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	na	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	7800	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	2000	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	na	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	9700	7.3	8.5	14	6.8	7.2	7.9	7.8	10	7.5	3	5.7	4.2
Aliphatic EPH >C12-C16 MC	59000	2.1	5.9	22	2.6	2.9	4.6	6	21	2.3	< 1.0	3.4	31
Aliphatic EPH >C16-C21 MC	na	< 2.0	3.5	75	< 2.0	< 2.0	3.2	5.1	29	5.8	6.6	6.7	< 2.0
Aliphatic EPH >C21-C35 MC	1000000	4.4	25	430	< 3.0	< 3.0	92	16	26	130	120	39	40
Aliphatic EPH >C35-C40 MC	1000000	< 10	< 10	81	< 10	< 10	27	< 10	< 10	34	45	18	16
Total Aliphatic EPH >C10-C35 MC	na	14	43	540	12	11	110	35	87	140	130	55	75
Total Aliphatic EPH >C10-C40 MC	na	14	43	620	12	11	130	35	87	170	170	73	91
Aromatic VPH >C5-C7	27	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	6000	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	3500	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	na	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	16000	< 1.0	1.4	5.8	< 1.0	1.3	< 1.0	1.7	1.3	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	36000	< 1.0	< 1.0	20	< 1.0	< 1.0	< 1.0	8.5	5	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C16-C21 MC	28000	< 2.0	< 2.0	36	< 2.0	< 2.0	< 2.0	84	2.7	3.3	5.3	11	< 2.0
Aromatic EPH >C21-C35 MC	28000	4.3	6.2	4.4	< 2.0	< 2.0	3.7	340	17	17	9	15	< 2.0
Aromatic EPH >C35-C40 MC	28000	2.1	1.3	7.8	3.8	< 1.0	3.5	61	57	5.6	8.7	11	1.8
Total Aromatic EPH >C10-C35 MC	na	5.1	8.6	66	< 5.0	< 5.0	5.8	430	26	21	14	26	< 5.0
Total Aromatic EPH >C10-C40 MC	na	< 10	< 10	74	< 10	< 10	< 10	490	83	27	23	37	< 10
Total VPH >C5-C10	na	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	na	19	52	610	14	12	110	470	110	160	140	81	79
Total EPH >C10-C40 MC	na	21	53	700	18	12	140	530	170	200	200	110	97
Naphthalene	1800	-	-	-	-	-	-	-	-	< 0.10	< 0.10	1.7	2.3
Acenaphthylene	110000	-	-	-	-	-	-	-	-	< 0.10	< 0.10	0.21	< 0.10
Acenaphthene	110000	-	-	-	-	-	-	-	-	< 0.10	< 0.10	0.13	< 0.10
Fluorene	63000	-	-	-	-	-	-	-	-	< 0.10	< 0.10	0.28	< 0.10
Phenanthrene	22000	-	-	-	-	-	-	-	-	< 0.10	0.88	1	0.71
Anthracene	520000	-	-	-	-	-	-	-	-	< 0.10	0.18	0.25	0.26
Fluoranthene	23000	-	-	-	-	-	-	-	-	< 0.10	1.4	0.82	1.4
Pyrene	54000	-	-	-	-	-	-	-	-	< 0.10	1.2	0.7	1.3
Benzoanthracene	170	-	-	-	-	-	-	-	-	< 0.10	0.8	0.34	0.71
Chrysene	350	-	-	-	-	-	-	-	-	< 0.10	0.9	0.46	0.74
Benzofluoranthene	44	-	-	-	-	-	-	-	-	< 0.10	1.5	0.43	0.99
Benzo(k)fluoranthene	1200	-	-	-	-	-	-	-	-	< 0.10	0.47	0.16	0.34
Benzopyrene	77	-	-	-	-	-	-	-	-	< 0.10	0.86	< 0.10	0.76
Indeno(1,2,3-c,d)Pyrene	500	-	-	-	-	-	-	-	-	< 0.10	0.64	< 0.10	0.57
Dibenz(a,h)Anthracene	3.5	-	-	-	-	-	-	-	-	< 0.10	0.19	< 0.10	< 0.10
Benzo[g,h,i]perylene	3900	-	-	-	-	-	-	-	-	< 0.10	0.76	< 0.10	0.6
Total Of 16 PAH's	na	-	-	-	-	-	-	-	-	< 2.0	9.8	6.5	11
Dichlorodifluoromethane	na	-	-	-	-	-	-	-	-	-	-	-	-
Chloromethane	1	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	1.1	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane	na	-	-	-	-	-	-	-	-	-	-	-	-
Chloroethane	901	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane		-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	24	-	-	-	-	-	-	-	-	-	-	-	-
Dichloromethane	257	-	-	-	-	-	-	-	-	-	-	-	-
Trans 1,2-Dichloroethene	21	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	na	-	-	-	-	-	-	-	-	-	-	-	-
cis 1,2-Dichloroethene	14	-	-	-	-	-	-	-	-	-	-	-	-
Bromochloromethane	na	-	-	-	-	-	-	-	-	-	-	-	-
Trichloromethane	na	-	-	-	-	-	-	-	-	-	-	-	-
1,1,1-Trichloroethane	700	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloromethane	2.9	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloropropene	na	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	27	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	0.67	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	0.7	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	3	-	-	-	-	-	-	-	-	-	-	-	-
Dibromomethane	na	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	na	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	na	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	56000	-	-	-	-	-	-	-	-	-	-	-	-
Trans-1,3-Dichloropropene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	89	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	24	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichloropropane	na	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	na	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromoethane	na	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,1,1,2-Tetrachloroethane	110	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	6000	-	-	-	-	-	-	-	-	-	-	-	-
m & p-Xylene	5900	-	-	-	-	-	-	-	-	-	-	-	-
o-Xylene	6600	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	na	-	-	-	-	-	-	-	-	-	-	-	-
Tribromomethane	na	-	-	-	-	-	-	-	-	-	-	-	-
Isopropylbenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
Bromobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3-Trichloropropane	na	-	-	-	-	-	-	-	-	-	-	-	-
N-Propylbenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
2-Chlorotoluene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,3,5-Trimethylbenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
4-Chlorotoluene	na	-	-	-	-	-	-	-	-	-	-	-	-
Tert-Butylbenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trimethylbenzene	330	-	-	-	-	-	-	-	-	-	-	-	-
Sec-Butylbenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
4-Isopropyltoluene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
N-Butylbenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromo-3-Chloropropane	na	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3-Trichlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Tert-Butyl Ether	7500	-	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodimethylamine	na	-	-	-	-	-	-	-	-	-	-	-	-
Phenol	440	-	-	-	-	-	-	-	-	-	-	-	-
2-Chlorophenol	na	-	-	-	-	-	-	-	-	-	-	-	-
Bis-(2-Chloroethyl)Ether	na	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
2-Methylphenol	na	-	-	-	-	-	-	-	-	-	-	-	-

Bis(2-Chloroisopropyl)Ether	na	-	-	-	-	-	-	-	-	-	-	-	-
Hexachloroethane	21	-	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	na	-	-	-	-	-	-	-	-	-	-	-	-
4-Methylphenol	na	-	-	-	-	-	-	-	-	-	-	-	-
Nitrobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
Isophorone	na	-	-	-	-	-	-	-	-	-	-	-	-
2-Nitrophenol	na	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	na	-	-	-	-	-	-	-	-	-	-	-	-
Bis(2-Chloroethoxy)Methane	na	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	na	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	1800	-	-	-	-	-	-	-	-	-	-	-	-
4-Chloroaniline	na	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	na	-	-	-	-	-	-	-	-	-	-	-	-
4-Chloro-3-Methylphenol	na	-	-	-	-	-	-	-	-	-	-	-	-
2-Methylnaphthalene	na	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	na	-	-	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	na	-	-	-	-	-	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	na	-	-	-	-	-	-	-	-	-	-	-	-
2-Chloronaphthalene	370	-	-	-	-	-	-	-	-	-	-	-	-
2-Nitroaniline	na	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	110000	-	-	-	-	-	-	-	-	-	-	-	-
Dimethylphthalate	na	-	-	-	-	-	-	-	-	-	-	-	-
2,6-Dinitrotoluene	na	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthene	110000	-	-	-	-	-	-	-	-	-	-	-	-
3-Nitroaniline	na	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	na	-	-	-	-	-	-	-	-	-	-	-	-
4-Chlorophenylphenylether	na	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrotoluene	na	-	-	-	-	-	-	-	-	-	-	-	-
Fluorene	63000	-	-	-	-	-	-	-	-	-	-	-	-
Diethyl Phthalate	na	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitroaniline	na	-	-	-	-	-	-	-	-	-	-	-	-
Azobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
4-Bromophenylphenyl Ether	na	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	22000	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene	520000	-	-	-	-	-	-	-	-	-	-	-	-
Carbazole	na	-	-	-	-	-	-	-	-	-	-	-	-
Di-N-Butyl Phthalate	na	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	23000	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene	54000	-	-	-	-	-	-	-	-	-	-	-	-
Butylbenzyl Phthalate	na	-	-	-	-	-	-	-	-	-	-	-	-
Benzoanthracene	170	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	350	-	-	-	-	-	-	-	-	-	-	-	-
Bis(2-Ethylhexyl)Phthalate	na	-	-	-	-	-	-	-	-	-	-	-	-
Di-N-Octyl Phthalate	na	-	-	-	-	-	-	-	-	-	-	-	-
Benzofluoranthene	na	-	-	-	-	-	-	-	-	-	-	-	-
Benzo[k]fluoranthene	1200	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	77	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-c,d)Pyrene	500	-	-	-	-	-	-	-	-	-	-	-	-
Dibenz(a,h)Anthracene	3.5	-	-	-	-	-	-	-	-	-	-	-	-
Benzo[g,h,i]perylene	3900	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	1800	< 0.10	3.7	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	-	-	-	-
Acenaphthylene	110000	< 0.10	0.16	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	-	-	-	-
Acenaphthene	110000	< 0.10	0.49	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	-	-	-	-
Fluorene	63000	< 0.10	0.74	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	-	-	-	-
Phenanthrene	22000	0.47	5.4	< 0.10	< 0.10	< 0.10	0.15	0.24	< 0.10	-	-	-	-
Anthracene	520000	< 0.10	0.93	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	-	-	-	-
Fluoranthene	23000	0.29	1.9	< 0.10	< 0.10	< 0.10	0.17	0.14	< 0.10	-	-	-	-
Pyrene	54000	0.26	1.3	< 0.10	< 0.10	< 0.10	0.13	< 0.10	< 0.10	-	-	-	-
Benzoanthracene	170	< 0.10	1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	-	-	-	-
Chrysene	350	< 0.10	1.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	-	-	-	-
Benzofluoranthene	44	< 0.10	1.7	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	-	-	-	-
Benzo[k]fluoranthene	1200	< 0.10	0.48	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	-	-	-	-
Benzopyrene	77	< 0.10	0.77	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	-	-	-	-
Indeno(1,2,3-c,d)Pyrene	500	< 0.10	0.86	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	-	-	-	-
Dibenz(a,h)Anthracene	3.5	< 0.10	0.17	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	-	-	-	-
Benzo[g,h,i]perylene	3900	< 0.10	0.72	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	-	-	-	-
Total Of 16 PAH's	na	< 2.0	21	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	-	-	-	-

Notes:

LMDL Laboratory method detection limit

< Result less than the LMDL

GAC generic assessment criteria

- COPC not analysed

Measured concentration in excess of GAC

COPC	Chemtest Job No.	24-21979	24-21980	24-21980	24-21980	24-21980	24-22474	24-22474	24-22474	24-22474	24-22474	24-24075	24-24075
	Chemtest Sample ID	1833604	1833606	1833608	1833609	1833610	1835788	1835789	1835790	1835791	1835792	1842400	1842401
	Client sample ref.	5	1	3	4	5	1	2	3	1	2	ES1	ES2
	Sample location	BH331	BH311	BH311	BH311	BH311	TP389	TP389	TP389	TP390	TP390	TP308	TP308
	Top depth (m)	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top depth (m)	8.50	0.50	2.50	3.50	4.20	0.5	1.60	2.80	0.70	3.50	0.6	1.0
	Depth to bottom (m)												
	Date sampled	08/07/2024	08/07/2024	08/07/2024	08/07/2024	08/07/2024	11/07/2024	11/07/2024	11/07/2024	11/07/2024	11/07/2024	25/07/2024	25/07/2024
	RSK Commercial GAC 1% som (mg/kg)												
ACM Type	na	-	-	-	-	-	-	-	-	-	-	-	-
Asbestos Identification	na	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Asbestos by Gravimetry	na												
Total Asbestos	na												
Moisture	na	15	3.8	4.4	3.8	10	8.4	6.6	6.6	7	19	6	6.8
Soil Colour	na	Brown	Grey	Grey	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material	na	None	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones
Soil Texture	na	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Clay	Sand	Sand
pH at 20C	na	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	640	6.1	5.9	3.6	8	7.4	4.6	4.3	8.5	8.1	5	2.5	14
Cadmium	410	< 0.10	< 0.10	< 0.10	0.73	< 0.10	0.48	0.15	0.12	0.44	< 0.10	0.88	0.85
Chromium	8600	4.8	2500	1600	2100	800	1300	820	140	530	31	880	860
Copper	68000	0.72	41	37	46	16	41	23	8.9	42	4	28	94
Mercury	1120	< 0.05	0.05	< 0.05	0.06	0.05	0.06	0.05	< 0.05	0.07	< 0.05	0.58	0.3
Nickel	980	4.1	19	9.9	30	9.5	27	20	8.7	37	11	25	44
Lead	2300	2.8	10	16	40	27	43	21	13	47	8.5	46	130
Selenium	12000	< 0.25	1.2	5.5	1.7	1.1	0.82	0.49	0.37	0.81	0.3	0.87	1.3
Zinc	740000	14	34	59	130	84	260	210	55	110	34	320	350
Chromium (Hexavalent)	49	< 0.50	0.78	< 0.50	< 0.50	< 0.50	< 0.50	0.68	< 0.50	< 0.50	< 0.50	0.54	< 0.50
Aliphatic VPH >C5-C6	3200	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	na	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	na	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	7800	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	2000	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	na	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	9700	2.1	4.9	4.9	< 2.0	2	9.1	11	8	11	12	< 2.0	< 2.0
Aliphatic EPH >C12-C16 MC	59000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.1	22	< 1.0	< 1.0	4.1	7.2	< 1.0
Aliphatic EPH >C16-C21 MC	na	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	25	66	< 2.0	4	4.6	35	11
Aliphatic EPH >C21-C35 MC	1000000	27	56	< 3.0	9.1	8.7	250	450	65	83	35	91	53
Aliphatic EPH >C35-C40 MC	1000000	14	18	< 10	12	16	60	89	22	48	17	22	< 10
Total Aliphatic EPH >C10-C35 MC	na	29	61	7	9.9	11	290	550	74	99	55	130	65
Total Aliphatic EPH >C10-C40 MC	na	43	80	< 10	22	27	350	640	96	150	73	150	65
Aromatic VPH >C5-C7	27	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	6000	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	3500	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	na	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	16000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.1	1.2	< 1.0	< 1.0	2.1	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	36000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.6	< 1.0	< 1.0
Aromatic EPH >C16-C21 MC	28000	4.2	< 2.0	< 2.0	3.3	4.2	2.7	< 2.0	< 2.0	< 2.0	< 2.0	4.3	3.4
Aromatic EPH >C21-C35 MC	28000	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	8.3	7.2	4.7	59	15
Aromatic EPH >C35-C40 MC	28000	7.7	2	< 1.0	4.4	7	12	11	11	11	13	28	5.8
Total Aromatic EPH >C10-C35 MC	na	< 5.0	< 5.0	< 5.0	< 5.0	5.7	< 5.0	< 5.0	8.3	7.2	8.4	64	18
Total Aromatic EPH >C10-C40 MC	na	< 10	< 10	< 10	< 10	13	12	11	19	18	21	91	24
Total VPH >C5-C10	na	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	na	34	65	< 10	14	16	290	550	82	110	64	200	83
Total EPH >C10-C40 MC	na	56	85	< 10	30	40	360	650	120	160	94	250	89
Naphthalene	1800	< 0.10	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	110000	< 0.10	-	-	-	-	-	-	-	-	-	-	-
Acenaphthene	110000	< 0.10	-	-	-	-	-	-	-	-	-	-	-
Fluorene	63000	< 0.10	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	22000	< 0.10	-	-	-	-	-	-	-	-	-	-	-
Anthracene	520000	< 0.10	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	23000	< 0.10	-	-	-	-	-	-	-	-	-	-	-
Pyrene	54000	< 0.10	-	-	-	-	-	-	-	-	-	-	-
Benzoanthracene	170	< 0.10	-	-	-	-	-	-	-	-	-	-	-
Chrysene	350	< 0.10	-	-	-	-	-	-	-	-	-	-	-
Benzofluoranthene	44	< 0.10	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	1200	< 0.10	-	-	-	-	-	-	-	-	-	-	-
Benzopyrene	77	< 0.10	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-c,d)Pyrene	500	< 0.10	-	-	-	-	-	-	-	-	-	-	-
Dibenz(a,h)Anthracene	3.5	< 0.10	-	-	-	-	-	-	-	-	-	-	-
Benzo[g,h,i]perylene	3900	< 0.10	-	-	-	-	-	-	-	-	-	-	-
Total Of 16 PAH's	na	< 2.0	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane	na	-	-	-	-	-	-	-	-	-	-	-	-
Chloromethane	1	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	1.1	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane	na	-	-	-	-	-	-	-	-	-	-	-	-
Chloroethane	901	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane		-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	24	-	-	-	-	-	-	-	-	-	-	-	-
Dichloromethane	257	-	-	-	-	-	-	-	-	-	-	-	-
Trans 1,2-Dichloroethene	21	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	na	-	-	-	-	-	-	-	-	-	-	-	-
cis 1,2-Dichloroethene	14	-	-	-	-	-	-	-	-	-	-	-	-
Bromochloromethane	na	-	-	-	-	-	-	-	-	-	-	-	-
Trichloromethane	na	-	-	-	-	-	-	-	-	-	-	-	-
1,1,1-Trichloroethane	700	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloromethane	2.9	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloropropene	na	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	27	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	0.67	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	0.7	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	3	-	-	-	-	-	-	-	-	-	-	-	-
Dibromomethane	na	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	na	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	na	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	56000	-	-	-	-	-	-	-	-	-	-	-	-
Trans-1,3-Dichloropropene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	89	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	24	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichloropropane	na	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	na	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromoethane	na	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,1,1,2-Tetrachloroethane	110	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	6000	-	-	-	-	-	-	-	-	-	-	-	-
m & p-Xylene	5900	-	-	-	-	-	-	-	-	-	-	-	-
o-Xylene	6600	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	na	-	-	-	-	-	-	-	-	-	-	-	-
Tribromomethane	na	-	-	-	-	-	-	-	-	-	-	-	-
Isopropylbenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
Bromobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3-Trichloropropane	na	-	-	-	-	-	-	-	-	-	-	-	-
N-Propylbenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
2-Chlorotoluene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,3,5-Trimethylbenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
4-Chlorotoluene	na	-	-	-	-	-	-	-	-	-	-	-	-
Tert-Butylbenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trimethylbenzene	330	-	-	-	-	-	-	-	-	-	-	-	-
Sec-Butylbenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
4-Isopropyltoluene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
N-Butylbenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromo-3-Chloropropane	na	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3-Trichlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Tert-Butyl Ether	7500	-	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodimethylamine	na	-	-	-	-	-	-	-	-	-	-	-	-
Phenol	440	-	-	-	-	-	-	-	-	-	-	-	-
2-Chlorophenol	na	-	-	-	-	-	-	-	-	-	-	-	-
Bis-(2-Chloroethyl)Ether	na	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
2-Methylphenol	na	-	-	-	-	-	-	-	-	-	-	-	-

Bis(2-Chloroisopropyl)Ether	na	-	-	-	-	-	-	-	-	-	-	-	-
Hexachloroethane	21	-	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	na	-	-	-	-	-	-	-	-	-	-	-	-
4-Methylphenol	na	-	-	-	-	-	-	-	-	-	-	-	-
Nitrobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
Isophorone	na	-	-	-	-	-	-	-	-	-	-	-	-
2-Nitrophenol	na	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	na	-	-	-	-	-	-	-	-	-	-	-	-
Bis(2-Chloroethoxy)Methane	na	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	na	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	1800	-	-	-	-	-	-	-	-	-	-	-	-
4-Chloroaniline	na	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	na	-	-	-	-	-	-	-	-	-	-	-	-
4-Chloro-3-Methylphenol	na	-	-	-	-	-	-	-	-	-	-	-	-
2-Methylnaphthalene	na	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	na	-	-	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	na	-	-	-	-	-	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	na	-	-	-	-	-	-	-	-	-	-	-	-
2-Chloronaphthalene	370	-	-	-	-	-	-	-	-	-	-	-	-
2-Nitroaniline	na	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	110000	-	-	-	-	-	-	-	-	-	-	-	-
Dimethylphthalate	na	-	-	-	-	-	-	-	-	-	-	-	-
2,6-Dinitrotoluene	na	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthene	110000	-	-	-	-	-	-	-	-	-	-	-	-
3-Nitroaniline	na	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	na	-	-	-	-	-	-	-	-	-	-	-	-
4-Chlorophenylphenylether	na	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrotoluene	na	-	-	-	-	-	-	-	-	-	-	-	-
Fluorene	63000	-	-	-	-	-	-	-	-	-	-	-	-
Diethyl Phthalate	na	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitroaniline	na	-	-	-	-	-	-	-	-	-	-	-	-
Azobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
4-Bromophenylphenyl Ether	na	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	22000	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene	520000	-	-	-	-	-	-	-	-	-	-	-	-
Carbazole	na	-	-	-	-	-	-	-	-	-	-	-	-
Di-N-Butyl Phthalate	na	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	23000	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene	54000	-	-	-	-	-	-	-	-	-	-	-	-
Butylbenzyl Phthalate	na	-	-	-	-	-	-	-	-	-	-	-	-
Benzoanthracene	170	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	350	-	-	-	-	-	-	-	-	-	-	-	-
Bis(2-Ethylhexyl)Phthalate	na	-	-	-	-	-	-	-	-	-	-	-	-
Di-N-Octyl Phthalate	na	-	-	-	-	-	-	-	-	-	-	-	-
Benzofluoranthene	na	-	-	-	-	-	-	-	-	-	-	-	-
Benzo[k]fluoranthene	1200	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	77	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-c,d)Pyrene	500	-	-	-	-	-	-	-	-	-	-	-	-
Dibenz(a,h)Anthracene	3.5	-	-	-	-	-	-	-	-	-	-	-	-
Benzo[g,h,i]perylene	3900	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	1800	-	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.14	0.26
Acenaphthylene	110000	-	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	110000	-	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	63000	-	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	22000	-	< 0.10	1.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.26	< 0.10	0.94	0.56
Anthracene	520000	-	< 0.10	0.49	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.14	0.14
Fluoranthene	23000	-	< 0.10	1.2	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.42	< 0.10	0.82	1.2
Pyrene	54000	-	< 0.10	1.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.36	< 0.10	0.49	1.2
Benzoanthracene	170	-	< 0.10	0.73	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	1
Chrysene	350	-	< 0.10	0.63	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.98
Benzofluoranthene	44	-	< 0.10	0.76	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	1.3
Benzo[k]fluoranthene	1200	-	< 0.10	0.55	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.87
Benzopyrene	77	-	< 0.10	0.71	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	1.1
Indeno(1,2,3-c,d)Pyrene	500	-	< 0.10	0.67	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	1
Dibenz(a,h)Anthracene	3.5	-	< 0.10	0.49	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.53
Benzo[g,h,i]perylene	3900	-	< 0.10	0.62	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.94
Total Of 16 PAH's	na	-	< 2.0	9.1	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	2.5	11

Notes:

LMDL Laboratory method detection limit

< Result less than the LMDL

GAC generic assessment criteria

- COPC not analysed

Measured concentration in excess of GAC

COPC	Chemtest Job No.	24-24075	24-24075	24-24075	24-24075	24-24075	24-24075	24-24075	24-25386	24-25386	24-25386	24-25641	24-25641
	Chemtest Sample ID	1842402	1842403	1842404	1842405	1842406	1842407	1842408	1848064	1848065	1848066	1849334	1849335
	Client sample ref.	ES1	ES2	ES3	ES2	ES3	ES4	ES5					
	Sample location	BH304	BH304	BH304	BH315	BH315	BH315	BH315	TP302	TP303	TP387	TP391	TP391
	Top depth (m)	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top depth (m)	0.5	1.0	2.5	2.0	3.0	4.0	5.0	0.50	1.50	0.50	0.50	1.50
	Depth to bottom (m)												
	Date sampled	25/07/2024	25/07/2024	25/07/2024	25/07/2024	25/07/2024	25/07/2024	25/07/2024					
	RSK Commercial GAC 1% som (mg/kg)												
ACM Type	na	Fibres/Clumps	-	-	-	-	-	-	-	-	-	-	-
Asbestos Identification	na	Amosite Chrysotile	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Asbestos by Gravimetry	na	0.002											
Total Asbestos	na	0.002											
Moisture	na	4.8	17	19	13	16	19	19	8.1	8.3	8.8	5.9	7.1
Soil Colour	na	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material	na	Stones	None	None	Stones	Stones	None	None	Stones and Roots	Stones	Stones	Stones and Roots	Stones
Soil Texture	na	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Loam	Loam
pH at 20C	na	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	640	9.4	7.6	7.6	92	15	32	12	9.7	4	13	0.9	< 0.5
Cadmium	410	0.38	< 0.10	< 0.10	0.28	< 0.10	< 0.10	0.11	< 0.10	< 0.10	0.11	< 0.10	< 0.10
Chromium	8600	2500	4.2	14	19	2.3	9.2	5.8	4000	5900	800	880	540
Copper	68000	58	1.5	3.6	470	38	230	22	160	64	55	300	36
Mercury	1120	0.1	< 0.05	< 0.05	0.16	< 0.05	0.05	< 0.05	0.1	0.13	0.26	0.09	0.07
Nickel	980	26	3.3	4	47	3.4	11	6.1	50	20	73	84	16
Lead	2300	70	2.9	4.6	72	23	27	12	22	20	96	60	42
Selenium	12000	0.92	< 0.25	< 0.25	0.79	< 0.25	< 0.25	0.42	0.52	0.5	0.35	< 0.25	< 0.25
Zinc	740000	340	13	22	120	42	50	29	77	50	440	1600	260
Chromium (Hexavalent)	49	3.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1	0.6	< 0.50	2.2	2.2
Aliphatic VPH >C5-C6	3200	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	na	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	na	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	7800	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	2000	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	na	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	9700	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	6.4	< 2.0	< 2.0	< 2.0	< 2.0
Aliphatic EPH >C12-C16 MC	59000	< 1.0	< 1.0	< 1.0	< 1.0	13	1.1	2.2	210	< 1.0	< 1.0	17	19
Aliphatic EPH >C16-C21 MC	na	2.6	< 2.0	< 2.0	< 2.0	36	4.9	8.6	420	< 2.0	5.3	120	110
Aliphatic EPH >C21-C35 MC	1000000	45	< 3.0	< 3.0	51	180	110	150	490	25	79	1100	970
Aliphatic EPH >C35-C40 MC	1000000	15	< 10	< 10	19	25	26	30	32	< 10	< 10	130	170
Total Aliphatic EPH >C10-C35 MC	na	49	< 5.0	< 5.0	51	230	120	160	1100	26	84	1300	1100
Total Aliphatic EPH >C10-C40 MC	na	63	< 10	< 10	70	250	150	190	1200	26	84	1400	1300
Aromatic VPH >C5-C7	27	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	6000	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	3500	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	na	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	16000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2.4	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	36000	< 1.0	< 1.0	< 1.0	1.1	19	2.6	3.9	35	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C16-C21 MC	28000	< 2.0	< 2.0	< 2.0	< 2.0	23	4.9	6.7	30	5.7	4.3	4.2	4.4
Aromatic EPH >C21-C35 MC	28000	12	< 2.0	< 2.0	< 2.0	40	2.5	6.4	4.2	< 2.0	< 2.0	3	4.8
Aromatic EPH >C35-C40 MC	28000	17	1.3	< 1.0	1.8	68	1.7	< 1.0	< 1.0	< 1.0	< 1.0	6	9.7
Total Aromatic EPH >C10-C35 MC	na	13	< 5.0	< 5.0	< 5.0	82	10	17	71	6.5	5	7.2	9.6
Total Aromatic EPH >C10-C40 MC	na	30	< 10	< 10	< 10	150	12	17	71	< 10	< 10	13	19
Total VPH >C5-C10	na	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	na	61	< 10	< 10	54	310	130	180	1200	33	89	1300	1100
Total EPH >C10-C40 MC	na	93	< 10	< 10	75	400	160	210	1200	33	89	1400	1300
Naphthalene	1800	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	110000	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthene	110000	-	-	-	-	-	-	-	-	-	-	-	-
Fluorene	63000	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	22000	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene	520000	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	23000	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene	54000	-	-	-	-	-	-	-	-	-	-	-	-
Benzoanthracene	170	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	350	-	-	-	-	-	-	-	-	-	-	-	-
Benzofluoranthene	44	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	1200	-	-	-	-	-	-	-	-	-	-	-	-
Benzopyrene	77	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-c,d)Pyrene	500	-	-	-	-	-	-	-	-	-	-	-	-
Dibenz(a,h)Anthracene	3.5	-	-	-	-	-	-	-	-	-	-	-	-
Benzo[g,h,i]perylene	3900	-	-	-	-	-	-	-	-	-	-	-	-
Total Of 16 PAH's	na	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane	na	-	-	-	-	-	-	-	-	-	-	-	-
Chloromethane	1	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	1.1	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane	na	-	-	-	-	-	-	-	-	-	-	-	-
Chloroethane	901	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane		-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	24	-	-	-	-	-	-	-	-	-	-	-	-
Dichloromethane	257	-	-	-	-	-	-	-	-	-	-	-	-
Trans 1,2-Dichloroethene	21	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	na	-	-	-	-	-	-	-	-	-	-	-	-
cis 1,2-Dichloroethene	14	-	-	-	-	-	-	-	-	-	-	-	-
Bromochloromethane	na	-	-	-	-	-	-	-	-	-	-	-	-
Trichloromethane	na	-	-	-	-	-	-	-	-	-	-	-	-
1,1,1-Trichloroethane	700	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloromethane	2.9	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloropropene	na	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	27	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	0.67	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	0.7	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	3	-	-	-	-	-	-	-	-	-	-	-	-
Dibromomethane	na	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	na	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	na	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	56000	-	-	-	-	-	-	-	-	-	-	-	-
Trans-1,3-Dichloropropene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	89	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	24	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichloropropane	na	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	na	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromoethane	na	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,1,1,2-Tetrachloroethane	110	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	6000	-	-	-	-	-	-	-	-	-	-	-	-
m & p-Xylene	5900	-	-	-	-	-	-	-	-	-	-	-	-
o-Xylene	6600	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	na	-	-	-	-	-	-	-	-	-	-	-	-
Tribromomethane	na	-	-	-	-	-	-	-	-	-	-	-	-
Isopropylbenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
Bromobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3-Trichloropropane	na	-	-	-	-	-	-	-	-	-	-	-	-
N-Propylbenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
2-Chlorotoluene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,3,5-Trimethylbenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
4-Chlorotoluene	na	-	-	-	-	-	-	-	-	-	-	-	-
Tert-Butylbenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trimethylbenzene	330	-	-	-	-	-	-	-	-	-	-	-	-
Sec-Butylbenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
4-Isopropyltoluene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
N-Butylbenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromo-3-Chloropropane	na	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3-Trichlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Tert-Butyl Ether	7500	-	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodimethylamine	na	-	-	-	-	-	-	-	-	-	-	-	-
Phenol	440	-	-	-	-	-	-	-	-	-	-	-	-
2-Chlorophenol	na	-	-	-	-	-	-	-	-	-	-	-	-
Bis-(2-Chloroethyl)Ether	na	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
2-Methylphenol	na	-	-	-	-	-	-	-	-	-	-	-	-

Bis(2-Chloroisopropyl)Ether	na	-	-	-	-	-	-	-	-	-	-	-	-
Hexachloroethane	21	-	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	na	-	-	-	-	-	-	-	-	-	-	-	-
4-Methylphenol	na	-	-	-	-	-	-	-	-	-	-	-	-
Nitrobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
Isophorone	na	-	-	-	-	-	-	-	-	-	-	-	-
2-Nitrophenol	na	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	na	-	-	-	-	-	-	-	-	-	-	-	-
Bis(2-Chloroethoxy)Methane	na	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	na	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	1800	-	-	-	-	-	-	-	-	-	-	-	-
4-Chloroaniline	na	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	na	-	-	-	-	-	-	-	-	-	-	-	-
4-Chloro-3-Methylphenol	na	-	-	-	-	-	-	-	-	-	-	-	-
2-Methylnaphthalene	na	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	na	-	-	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	na	-	-	-	-	-	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	na	-	-	-	-	-	-	-	-	-	-	-	-
2-Chloronaphthalene	370	-	-	-	-	-	-	-	-	-	-	-	-
2-Nitroaniline	na	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	110000	-	-	-	-	-	-	-	-	-	-	-	-
Dimethylphthalate	na	-	-	-	-	-	-	-	-	-	-	-	-
2,6-Dinitrotoluene	na	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthene	110000	-	-	-	-	-	-	-	-	-	-	-	-
3-Nitroaniline	na	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	na	-	-	-	-	-	-	-	-	-	-	-	-
4-Chlorophenylphenylether	na	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrotoluene	na	-	-	-	-	-	-	-	-	-	-	-	-
Fluorene	63000	-	-	-	-	-	-	-	-	-	-	-	-
Diethyl Phthalate	na	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitroaniline	na	-	-	-	-	-	-	-	-	-	-	-	-
Azobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
4-Bromophenylphenyl Ether	na	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	22000	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene	520000	-	-	-	-	-	-	-	-	-	-	-	-
Carbazole	na	-	-	-	-	-	-	-	-	-	-	-	-
Di-N-Butyl Phthalate	na	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	23000	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene	54000	-	-	-	-	-	-	-	-	-	-	-	-
Butylbenzyl Phthalate	na	-	-	-	-	-	-	-	-	-	-	-	-
Benzoanthracene	170	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	350	-	-	-	-	-	-	-	-	-	-	-	-
Bis(2-Ethylhexyl)Phthalate	na	-	-	-	-	-	-	-	-	-	-	-	-
Di-N-Octyl Phthalate	na	-	-	-	-	-	-	-	-	-	-	-	-
Benzofluoranthene	na	-	-	-	-	-	-	-	-	-	-	-	-
Benzo[k]fluoranthene	1200	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	77	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-c,d)Pyrene	500	-	-	-	-	-	-	-	-	-	-	-	-
Dibenz(a,h)Anthracene	3.5	-	-	-	-	-	-	-	-	-	-	-	-
Benzo[g,h,i]perylene	3900	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	1800	0.12	< 0.10	< 0.10	0.78	1.4	0.73	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	110000	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	110000	< 0.10	< 0.10	< 0.10	< 0.10	0.32	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	63000	< 0.10	< 0.10	< 0.10	< 0.10	0.4	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	22000	0.54	< 0.10	< 0.10	1.1	1.2	0.45	< 0.10	< 0.10	< 0.10	0.48	0.93	0.76
Anthracene	520000	0.27	< 0.10	< 0.10	0.21	0.21	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.19	0.16
Fluoranthene	23000	1.6	< 0.10	< 0.10	1.2	0.76	0.38	0.22	< 0.10	< 0.10	0.41	1.1	1.8
Pyrene	54000	1.5	< 0.10	< 0.10	0.85	0.53	0.26	0.2	< 0.10	< 0.10	0.3	0.93	1.7
Benzoanthracene	170	1.8	< 0.10	< 0.10	0.72	0.46	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	1
Chrysene	350	1.4	< 0.10	< 0.10	0.58	0.5	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	1.7
Benzofluoranthene	44	2.1	< 0.10	< 0.10	1.1	0.55	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	2.6
Benzo[k]fluoranthene	1200	1.6	< 0.10	< 0.10	0.4	0.24	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.95
Benzopyrene	77	1.6	< 0.10	< 0.10	0.78	0.36	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	1.4
Indeno(1,2,3-c,d)Pyrene	500	1.8	< 0.10	< 0.10	0.49	0.27	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	1.3
Dibenz(a,h)Anthracene	3.5	1.3	< 0.10	< 0.10	0.15	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	3900	1.7	< 0.10	< 0.10	0.41	0.3	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	1.6
Total Of 16 PAH's	na	17	< 2.0	< 2.0	8.8	7.5	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	3.2	15

Notes:

LMDL Laboratory method detection limit

< Result less than the LMDL

GAC generic assessment criteria

- COPC not analysed

Measured concentration in excess of GAC

COPC	Chemtest Job No.	24-25641	24-25641	24-25641	24-25641	24-25641	24-25899	24-25899	24-25899	24-25899	24-25899	24-25899	24-26534
	Chemtest Sample ID	1849337	1849340	1849341	1849343	1849345	1850277	1850280	1850285	1850287	1850290	1850293	1852980
	Client sample ref.												1
	Sample location	TP345	TP392	TP392	TP393	TP393	TP309	TP311	TP325	TP342	TP342	TP388	BH326
	Top depth (m)	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top depth (m)	0.50	0.50	2.00	0.50	3.00	0.4	0.5	2.0	0.5	3.0	2.5	4.5
	Depth to bottom (m)												5.5
	Date sampled												15/08/2024
	RSK Commercial GAC 1% som (mg/kg)												
ACM Type	na	-	-	-	-	-	-	-	-	-	-	-	-
Asbestos Identification	na	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Asbestos by Gravimetry	na												
Total Asbestos	na												
Moisture	na	3.1	5.8	14	16	22	6.1	4	7.2	11	7.2	6.5	69
Soil Colour	na	Brown	Brown	Brown	Brown	Brown	Black	Black	Black	Black	Black	Black	Black
Other Material	na	Stones	Stones	Stones	Stones and Roots	Stones	Stones	Stones	Stones	Stones	Stones	Stones	None
Soil Texture	na	Loam	Loam	Clay	Clay	Clay	Sand	Sand	Sand	Sand	Sand	Sand	Sand
pH at 20C	na	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	640	1.5	28	6.7	4.9	1.7	3.4	3	5.4	5.4	32	10	22
Cadmium	410	< 0.10	4.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.72	< 0.10	1.7
Chromium	8600	2000	2100	100	76	25	1300	530	1100	1100	4800	1700	250
Copper	68000	160	160	22	11	4.5	43	200	28	34	200	65	130
Mercury	1120	0.75	0.31	0.06	< 0.05	< 0.05	0.09	0.11	0.05	0.05	0.26	0.1	0.15
Nickel	980	77	95	17	21	9.1	38	58	43	36	110	35	59
Lead	2300	360	690	50	16	10	26	280	25	29	190	110	210
Selenium	12000	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	2.2
Zinc	740000	650	1600	150	77	38	260	1200	160	280	350	210	930
Chromium (Hexavalent)	49	< 0.50	1	< 0.50	< 0.50	< 0.50	0.58	0.64	< 0.50	2.6	0.76	0.59	< 0.50
Aliphatic VPH >C5-C6	3200	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	na	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	na	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	7800	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	2000	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	1.5
Total Aliphatic VPH >C5-C10	na	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	1.5
Aliphatic EPH >C10-C12 MC	9700	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	3.4	2.1	9.7	77
Aliphatic EPH >C12-C16 MC	59000	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	12	< 1.0	76	830
Aliphatic EPH >C16-C21 MC	na	44	27	< 2.0	2.7	3.7	3.2	< 2.0	4	89	13	130	11000
Aliphatic EPH >C21-C35 MC	1000000	400	340	< 3.0	5.3	9.3	300	26	140	770	62	430	90000
Aliphatic EPH >C35-C40 MC	1000000	63	50	< 10	< 10	< 10	56	< 10	58	120	21	74	13000
Total Aliphatic EPH >C10-C35 MC	na	450	370	< 5.0	8	13	310	27	150	880	77	640	100000
Total Aliphatic EPH >C10-C40 MC	na	510	420	< 10	< 10	13	360	27	200	990	98	720	110000
Aromatic VPH >C5-C7	27	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.61
Aromatic VPH >C7-C8	6000	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	3500	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	na	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	0.61
Aromatic EPH >C10-C12 MC	16000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	36000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	7.9	140
Aromatic EPH >C16-C21 MC	28000	8.4	3.4	4.2	6.3	5.1	3.3	3.6	3.8	5.1	4	6.2	3100
Aromatic EPH >C21-C35 MC	28000	2.5	< 2.0	< 2.0	9.8	10	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	43
Aromatic EPH >C35-C40 MC	28000	1.6	1.2	< 1.0	5.8	6.3	1.5	< 1.0	1.1	4.7	< 1.0	2.2	4700
Total Aromatic EPH >C10-C35 MC	na	11	< 5.0	< 5.0	16	15	< 5.0	< 5.0	< 5.0	5.1	< 5.0	14	3200
Total Aromatic EPH >C10-C40 MC	na	13	< 10	< 10	22	21	< 10	< 10	< 10	< 10	< 10	16	8000
Total VPH >C5-C10	na	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	2.1
Total EPH >C10-C35 MC	na	460	370	< 10	24	28	310	31	150	880	81	660	100000
Total EPH >C10-C40 MC	na	520	430	< 10	30	34	370	31	210	1000	100	730	120000
Naphthalene	1800	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	110000	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthene	110000	-	-	-	-	-	-	-	-	-	-	-	-
Fluorene	63000	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	22000	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene	520000	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	23000	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene	54000	-	-	-	-	-	-	-	-	-	-	-	-
Benzoanthracene	170	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	350	-	-	-	-	-	-	-	-	-	-	-	-
Benzofluoranthene	44	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	1200	-	-	-	-	-	-	-	-	-	-	-	-
Benzopyrene	77	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-c,d)Pyrene	500	-	-	-	-	-	-	-	-	-	-	-	-
Dibenz(a,h)Anthracene	3.5	-	-	-	-	-	-	-	-	-	-	-	-
Benzo[g,h,i]perylene	3900	-	-	-	-	-	-	-	-	-	-	-	-
Total Of 16 PAH's	na	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane	na	-	-	-	-	-	< 1.0	< 1.0	-	-	-	< 1.0	< 1.0
Chloromethane	1	-	-	-	-	-	< 1.0	< 1.0	-	-	-	< 1.0	< 1.0
Vinyl Chloride	1.1	-	-	-	-	-	< 1.0	< 1.0	-	-	-	< 1.0	< 1.0
Bromomethane	na	-	-	-	-	-	< 20	< 20	-	-	-	< 20	< 20
Chloroethane	901	-	-	-	-	-	< 2.0	< 2.0	-	-	-	< 2.0	< 2.0
Trichlorofluoromethane		-	-	-	-	-	< 1.0	< 1.0	-	-	-	< 1.0	< 1.0
1,1-Dichloroethene	24	-	-	-	-	-	< 1.0	< 1.0	-	-	-	< 1.0	< 1.0
Dichloromethane	257	-	-	-	-	-	< 50	< 50	-	-	-	< 50	< 50
Trans 1,2-Dichloroethene	21	-	-	-	-	-	< 1.0	< 1.0	-	-	-	< 1.0	< 1.0
1,1-Dichloroethane	na	-	-	-	-	-	< 1.0	< 1.0	-	-	-	< 1.0	< 1.0
cis 1,2-Dichloroethene	14	-	-	-	-	-	< 1.0	< 1.0	-	-	-	< 1.0	< 1.0
Bromochloromethane	na	-	-	-	-	-	< 5.0	< 5.0	-	-	-	< 5.0	< 5.0
Trichloromethane	na	-	-	-	-	-	< 1.0	< 1.0	-	-	-	< 1.0	< 1.0
1,1,1-Trichloroethane	700	-	-	-	-	-	< 1.0	< 1.0	-	-	-	< 1.0	< 1.0
Tetrachloromethane	2.9	-	-	-	-	-	< 1.0	< 1.0	-	-	-	< 1.0	< 1.0
1,1-Dichloropropene	na	-	-	-	-	-	< 1.0	< 1.0	-	-	-	< 1.0	< 1.0
Benzene	27	-	-	-	-	-	< 1.0	< 1.0	-	-	-	< 1.0	< 1.0
1,2-Dichloroethane	0.67	-	-	-	-	-	< 2.0	< 2.0	-	-	-	< 2.0	< 2.0
Trichloroethene	0.7	-	-	-	-	-	< 1.0	< 1.0	-	-	-	< 1.0	< 1.0
1,2-Dichloropropane	3	-	-	-	-	-	< 1.0	< 1.0	-	-	-	< 1.0	< 1.0
Dibromomethane	na	-	-	-	-	-	< 1.0	< 1.0	-	-	-	< 1.0	< 1.0
Bromodichloromethane	na	-	-	-	-	-	< 5.0	< 5.0	-	-	-	< 5.0	< 5.0
cis-1,3-Dichloropropene	na	-	-	-	-	-	< 10	< 10	-	-	-	< 10	< 10
Toluene	56000	-	-	-	-	-	< 1.0	< 1.0	-	-	-	< 1.0	12
Trans-1,3-Dichloropropene	na	-	-	-	-	-	< 10	< 10	-	-	-	< 10	< 10
1,1,2-Trichloroethane	89	-	-	-	-	-	< 10	< 10	-	-	-	< 10	< 10
Tetrachloroethene	24	-	-	-	-	-	< 1.0	< 1.0	-	-	-	< 1.0	< 1.0
1,3-Dichloropropane	na	-	-	-	-	-	< 2.0	< 2.0	-	-	-	< 2.0	< 2.0
Dibromochloromethane	na	-	-	-	-	-	< 10	< 10	-	-	-	< 10	< 10
1,2-Dibromoethane	na	-	-	-	-	-	< 5.0	< 5.0	-	-	-	< 5.0	< 5.0
Chlorobenzene	na	-	-	-	-	-	< 1.0	< 1.0	-	-	-	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane	110	-	-	-	-	-	< 2.0	< 2.0	-	-	-	< 2.0	< 2.0
Ethylbenzene	6000	-	-	-	-	-	< 1.0	< 1.0	-	-	-	< 1.0	< 1.0
m & p-Xylene	5900	-	-	-	-	-	< 1.0	< 1.0	-	-	-	< 1.0	43
o-Xylene	6600	-	-	-	-	-	< 1.0	< 1.0	-	-	-	< 1.0	74
Styrene	na	-	-	-	-	-	< 1.0	< 1.0	-	-	-	< 1.0	< 1.0
Tribromomethane	na	-	-	-	-	-	< 1.0	< 1.0	-	-	-	< 1.0	< 1.0
Isopropylbenzene	na	-	-	-	-	-	< 1.0	< 1.0	-	-	-	< 1.0	< 1.0
Bromobenzene	na	-	-	-	-	-	< 1.0	< 1.0	-	-	-	< 1.0	< 1.0
1,2,3-Trichloropropane	na	-	-	-	-	-	< 50	< 50	-	-	-	< 50	< 50
N-Propylbenzene	na	-	-	-	-	-	< 1.0	< 1.0	-	-	-	< 1.0	< 1.0
2-Chlorotoluene	na	-	-	-	-	-	< 1.0	< 1.0	-	-	-	< 1.0	< 1.0
1,3,5-Trimethylbenzene	na	-	-	-	-	-	< 1.0	< 1.0	-	-	-	1.9	< 1.0
4-Chlorotoluene	na	-	-	-	-	-	< 1.0	< 1.0	-	-	-	< 1.0	< 1.0
Tert-Butylbenzene	na	-	-	-	-	-	< 1.0	< 1.0	-	-	-	< 1.0	< 1.0
1,2,4-Trimethylbenzene	330	-	-	-	-	-	< 1.0	< 1.0	-	-	-	4.7	< 1.0
Sec-Butylbenzene	na	-	-	-	-	-	< 1.0	< 1.0	-	-	-	< 1.0	< 1.0
1,3-Dichlorobenzene	na	-	-	-	-	-	< 1.0	< 1.0	-	-	-	< 1.0	< 1.0
4-Isopropyltoluene	na	-	-	-	-	-	< 1.0	< 1.0	-	-	-	< 1.0	< 1.0
1,4-Dichlorobenzene	na	-	-	-	-	-	< 1.0	< 1.0	-	-	-	< 1.0	< 1.0
N-Butylbenzene	na	-	-	-	-	-	< 1.0	< 1.0	-	-	-	< 1.0	< 1.0
1,2-Dichlorobenzene	na	-	-	-	-	-	< 1.0	< 1.0	-	-	-	< 1.0	< 1.0
1,2-Dibromo-3-Chloropropane	na	-	-	-	-	-	< 50	< 50	-	-	-	< 50	< 50
1,2,4-Trichlorobenzene	na	-	-	-	-	-	< 1.0	< 1.0	-	-	-	< 1.0	< 1.0
Hexachlorobutadiene	na	-	-	-	-	-	< 1.0	< 1.0	-	-	-	< 1.0	< 1.0
1,2,3-Trichlorobenzene	na	-	-	-	-	-	< 2.0	< 2.0	-	-	-	< 2.0	< 2.0
Methyl Tert-Butyl Ether	7500	-	-	-	-	-	< 1.0	< 1.0	-	-	-	< 1.0	< 1.0
N-Nitrosodimethylamine	na	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50
Phenol	440	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50
2-Chlorophenol	na	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50
Bis-(2-Chloroethyl)Ether	na	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50
1,3-Dichlorobenzene	na	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50
1,4-Dichlorobenzene	na	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50
1,2-Dichlorobenzene	na	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50
2-Methylphenol	na	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50

Bis(2-Chloroisopropyl)Ether	na	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50
Hexachloroethane	21	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50
N-Nitrosodi-n-propylamine	na	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50
4-Methylphenol	na	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50
Nitrobenzene	na	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50
Isophorone	na	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50
2-Nitrophenol	na	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50
2,4-Dimethylphenol	na	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50
Bis(2-Chloroethoxy)Methane	na	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50
2,4-Dichlorophenol	na	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50
1,2,4-Trichlorobenzene	na	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50
Naphthalene	1800	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50
4-Chloroaniline	na	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50
Hexachlorobutadiene	na	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50
4-Chloro-3-Methylphenol	na	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50
2-Methylnaphthalene	na	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50
4-Nitrophenol	na	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50
2,4,6-Trichlorophenol	na	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50
2,4,5-Trichlorophenol	na	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50
2-Chloronaphthalene	370	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50
2-Nitroaniline	na	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50
Acenaphthylene	110000	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50
Dimethylphthalate	na	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50
2,6-Dinitrotoluene	na	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50
Acenaphthene	110000	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50
3-Nitroaniline	na	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50
Dibenzofuran	na	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50
4-Chlorophenylphenylether	na	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50
2,4-Dinitrotoluene	na	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50
Fluorene	63000	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50
Diethyl Phthalate	na	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50
4-Nitroaniline	na	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50
Azobenzene	na	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50
4-Bromophenylphenyl Ether	na	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50
Hexachlorobenzene	na	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50
Phenanthrene	22000	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	1.7
Anthracene	520000	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50
Carbazole	na	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50
Di-N-Butyl Phthalate	na	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50
Fluoranthene	23000	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	3.4
Pyrene	54000	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	5.8
Butylbenzyl Phthalate	na	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50
Benzoanthracene	170	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	1.9
Chrysene	350	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	4.9
Bis(2-Ethylhexyl)Phthalate	na	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	2.2
Di-N-Octyl Phthalate	na	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	2.1
Benzofluoranthene	na	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	3.3
Benzo[k]fluoranthene	1200	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50
Benzo(a)pyrene	77	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	1.8
Indeno(1,2,3-c,d)Pyrene	500	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50
Dibenz(a,h)Anthracene	3.5	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50
Benzo[g,h,i]perylene	3900	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50
Naphthalene	1800	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	110000	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	110000	0.49	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	63000	0.44	< 0.10	< 0.10	< 0.10	< 0.10	0.13	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	22000	2.5	0.64	< 0.10	< 0.10	< 0.10	0.79	< 0.10	< 0.10	< 0.10	0.19	0.32	< 0.10
Anthracene	520000	0.36	< 0.10	< 0.10	< 0.10	< 0.10	0.63	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	23000	1.7	0.95	< 0.10	< 0.10	< 0.10	2.4	< 0.10	< 0.10	< 0.10	0.4	0.48	< 0.10
Pyrene	54000	1.3	0.81	< 0.10	< 0.10	< 0.10	2.5	< 0.10	< 0.10	< 0.10	0.28	0.28	< 0.10
Benzoanthracene	170	< 0.10	0.41	< 0.10	< 0.10	< 0.10	3.4	< 0.10	< 0.10	< 0.10	0.15	< 0.10	< 0.10
Chrysene	350	< 0.10	0.6	< 0.10	< 0.10	< 0.10	3.6	< 0.10	< 0.10	< 0.10	0.18	< 0.10	< 0.10
Benzofluoranthene	44	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	4.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	1200	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	3.8	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzopyrene	77	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	3.8	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	500	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	4.2	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	3.5	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	3.9	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	3900	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	3.9	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's	na	6.8	3.4	< 2.0	< 2.0	< 2.0	37	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0

Notes:

LMDL Laboratory method detection limit

< Result less than the LMDL

GAC generic assessment criteria

- COPC not analysed

Measured concentration in excess of GAC

COPC	Chemtest Job No.	24-26534	24-26534	24-26534	24-26534	24-26534	24-27128	24-27128	24-27128	24-27128	24-27793	24-27793	24-27793
	Chemtest Sample ID	1852981	1852982	1852984	1852987	1852991	1855529	1855532	1855534	1855536	1858447	1858448	1858450
	Client sample ref.	1	2	1	1	1					ES4	ES1	ES3
	Sample location	BH327	BH327	TP3001	TP399	TP397	TP376	TP375	TP374	TP341	BH305	BH303A	BH303A
	Top depth (m)	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top depth (m)	3.5	4.5	0.2	0.5	0.0	0.25	1.60	1.40	2.30	5.5	0.6	3.0
	Depth to bottom (m)	4.5	5.5										
	Date sampled	15/08/2024	15/08/2024	15/08/2024	15/08/2024	15/08/2024	19/08/2024	19/08/2024	19/08/2024	19/08/2024			
	RSK Commercial GAC 1% som (mg/kg)												
ACM Type	na	-	-	-	-	-	-	Fibres/Clumps	-	-	-	-	-
Asbestos Identification	na	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	Chrysotile	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Asbestos by Gravimetry	na							<0.001					
Total Asbestos	na							<0.001					
Moisture	na	71	16	7.3	18	14	6.3	25	19	24	17	9.6	15
Soil Colour	na	Black	Brown	Brown	Brown	Brown	Black	Black	Black	Black	Brown	Brown	Brown
Other Material	na	None	None	Stones	Stones	Stones and Roots	Stones and Roots	Stones and Roots	Stones	Stones	Stones	Stones	Stones
Soil Texture	na	Sand	Sand	Sand	Loam	Sand	Sand	Clay	Clay	Clay	Sand	Sand	Sand
pH at 20C	na	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	640	18	5.5	4.4	4.3	13	< 0.5	11	7.5	14	< 0.5	0.9	1.6
Cadmium	410	5.2	0.16	0.38	0.31	0.14	0.58	< 0.10	< 0.10	< 0.10	< 0.10	0.51	< 0.10
Chromium	8600	440	9.6	140	33	95	70	48	30	51	15	1400	510
Copper	68000	360	7.3	56	27	20	20	66	100	92	2.6	140	20
Mercury	1120	0.22	< 0.05	0.05	0.37	0.08	0.2	0.13	0.09	0.15	< 0.05	0.08	< 0.05
Nickel	980	36	4	170	14	43	11	16	43	64	4.7	28	21
Lead	2300	330	13	40	140	29	68	100	87	130	5.3	50	10
Selenium	12000	1.1	< 0.25	0.69	0.33	1.7	1.1	1.8	1.6	2.4	< 0.25	0.77	0.57
Zinc	740000	2100	140	210	190	100	390	29	45	52	17	190	74
Chromium (Hexavalent)	49	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Aliphatic VPH >C5-C6	3200	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	na	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	na	0.35	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	7800	0.35	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	2000	2.7	0.17	< 0.05	< 0.05	< 0.05	< 0.05	0.17	0.27	0.21	< 0.05	< 0.05	0.14
Total Aliphatic VPH >C5-C10	na	3.1	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	0.27	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	9700	290	13	12	33	78	< 2.0	76	120	230	2.6	3.5	< 2.0
Aliphatic EPH >C12-C16 MC	59000	690	14	18	48	3800	7.1	360	410	720	3.9	12	20
Aliphatic EPH >C16-C21 MC	na	4000	170	23	120	3200	8.6	8300	1800	4700	14	44	26
Aliphatic EPH >C21-C35 MC	1000000	110000	2600	150	940	1300	32	44000	7100	21000	85	120	53
Aliphatic EPH >C35-C40 MC	1000000	20000	400	54	160	740	13	5500	1200	5100	14	37	16
Total Aliphatic EPH >C10-C35 MC	na	120000	2800	200	1100	8400	48	52000	9400	26000	110	180	100
Total Aliphatic EPH >C10-C40 MC	na	140000	3200	250	1300	9200	61	58000	11000	31000	120	220	120
Aromatic VPH >C5-C7	27	0.88	< 0.05	< 0.05	0.2	0.21	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	6000	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	3500	< 0.05	< 0.05	< 0.05	< 0.05	0.21	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	na	0.88	< 0.25	< 0.25	< 0.25	0.41	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	16000	< 1.0	< 1.0	15	48	150000	< 1.0	73	95	120	1.2	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	36000	170	1.5	3.1	140	29000	< 1.0	470	300	500	< 1.0	< 1.0	3.2
Aromatic EPH >C16-C21 MC	28000	520	19	11	180	27000	5.2	1200	600	1500	3	< 2.0	20
Aromatic EPH >C21-C35 MC	28000	350	2.2	3.5	100	13000	15	33	11	210	22	2.7	6.8
Aromatic EPH >C35-C40 MC	28000	660	190	14	20	1400	12	110	260	150	190	7.5	7
Total Aromatic EPH >C10-C35 MC	na	1000	23	33	480	220000	20	1800	1000	2300	26	5.6	30
Total Aromatic EPH >C10-C40 MC	na	1700	210	46	500	220000	33	1900	1300	2400	220	13	37
Total VPH >C5-C10	na	4	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	na	120000	2900	230	1600	230000	68	54000	10000	29000	130	190	130
Total EPH >C10-C40 MC	na	140000	3500	300	1800	230000	93	60000	12000	34000	340	230	150
Naphthalene	1800	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	110000	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthene	110000	-	-	-	-	-	-	-	-	-	-	-	-
Fluorene	63000	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	22000	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene	520000	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	23000	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene	54000	-	-	-	-	-	-	-	-	-	-	-	-
Benzoanthracene	170	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	350	-	-	-	-	-	-	-	-	-	-	-	-
Benzofluoranthene	44	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	1200	-	-	-	-	-	-	-	-	-	-	-	-
Benzopyrene	77	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-c,d)Pyrene	500	-	-	-	-	-	-	-	-	-	-	-	-
Dibenz(a,h)Anthracene	3.5	-	-	-	-	-	-	-	-	-	-	-	-
Benzo[g,h,i]perylene	3900	-	-	-	-	-	-	-	-	-	-	-	-
Total Of 16 PAH's	na	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane	na	< 1.0	< 1.0	-	-	< 1.0	< 1.0	-	-	-	< 1.0	-	-
Chloromethane	1	< 1.0	< 1.0	-	-	< 1.0	< 1.0	-	-	-	< 1.0	-	-
Vinyl Chloride	1.1	< 1.0	< 1.0	-	-	< 1.0	< 1.0	-	-	-	< 1.0	-	-
Bromomethane	na	< 20	< 20	-	-	< 20	< 20	-	-	-	< 20	-	-
Chloroethane	901	< 2.0	< 2.0	-	-	< 2.0	< 2.0	-	-	-	< 2.0	-	-
Trichlorofluoromethane		< 1.0	< 1.0	-	-	< 1.0	< 1.0	-	-	-	< 1.0	-	-
1,1-Dichloroethene	24	< 1.0	< 1.0	-	-	< 1.0	< 1.0	-	-	-	< 1.0	-	-
Dichloromethane	257	< 50	< 50	-	-	< 50	< 50	-	-	-	< 50	-	-
Trans 1,2-Dichloroethene	21	< 1.0	< 1.0	-	-	< 1.0	< 1.0	-	-	-	< 1.0	-	-
1,1-Dichloroethane	na	< 1.0	< 1.0	-	-	< 1.0	< 1.0	-	-	-	< 1.0	-	-
cis 1,2-Dichloroethene	14	< 1.0	< 1.0	-	-	< 1.0	< 1.0	-	-	-	< 1.0	-	-
Bromochloromethane	na	< 5.0	< 5.0	-	-	< 5.0	< 5.0	-	-	-	< 5.0	-	-
Trichloromethane	na	< 1.0	< 1.0	-	-	< 1.0	< 1.0	-	-	-	1.2	-	-
1,1,1-Trichloroethane	700	< 1.0	< 1.0	-	-	< 1.0	< 1.0	-	-	-	< 1.0	-	-
Tetrachloromethane	2.9	< 1.0	< 1.0	-	-	< 1.0	< 1.0	-	-	-	< 1.0	-	-
1,1-Dichloropropene	na	< 1.0	< 1.0	-	-	< 1.0	< 1.0	-	-	-	< 1.0	-	-
Benzene	27	< 1.0	< 1.0	-	-	43	< 1.0	-	-	-	< 1.0	-	-
1,2-Dichloroethane	0.67	< 2.0	< 2.0	-	-	< 2.0	< 2.0	-	-	-	< 2.0	-	-
Trichloroethene	0.7	< 1.0	< 1.0	-	-	< 1.0	< 1.0	-	-	-	< 1.0	-	-
1,2-Dichloropropane	3	< 1.0	< 1.0	-	-	< 1.0	< 1.0	-	-	-	< 1.0	-	-
Dibromomethane	na	< 1.0	< 1.0	-	-	< 1.0	< 1.0	-	-	-	< 1.0	-	-
Bromodichloromethane	na	< 5.0	< 5.0	-	-	< 5.0	< 5.0	-	-	-	< 5.0	-	-
cis-1,3-Dichloropropene	na	< 10	< 10	-	-	< 10	< 10	-	-	-	< 10	-	-
Toluene	56000	< 1.0	< 1.0	-	-	31	< 1.0	-	-	-	1.5	-	-
Trans-1,3-Dichloropropene	na	< 10	< 10	-	-	< 10	< 10	-	-	-	< 10	-	-
1,1,2-Trichloroethane	89	< 10	< 10	-	-	< 10	< 10	-	-	-	< 10	-	-
Tetrachloroethene	24	< 1.0	< 1.0	-	-	< 1.0	< 1.0	-	-	-	< 1.0	-	-
1,3-Dichloropropane	na	< 2.0	< 2.0	-	-	< 2.0	< 2.0	-	-	-	< 2.0	-	-
Dibromochloromethane	na	< 10	< 10	-	-	< 10	< 10	-	-	-	< 10	-	-
1,2-Dibromoethane	na	< 5.0	< 5.0	-	-	< 5.0	< 5.0	-	-	-	< 5.0	-	-
Chlorobenzene	na	< 1.0	< 1.0	-	-	< 1.0	< 1.0	-	-	-	< 1.0	-	-
1,1,1,2-Tetrachloroethane	110	< 2.0	< 2.0	-	-	< 2.0	< 2.0	-	-	-	< 2.0	-	-
Ethylbenzene	6000	20	< 1.0	-	-	4.1	< 1.0	-	-	-	< 1.0	-	-
m & p-Xylene	5900	43	< 1.0	-	-	14	< 1.0	-	-	-	< 1.0	-	-
o-Xylene	6600	120	3.1	-	-	11	< 1.0	-	-	-	< 1.0	-	-
Styrene	na	< 1.0	< 1.0	-	-	50	< 1.0	-	-	-	< 1.0	-	-
Tribromomethane	na	< 1.0	< 1.0	-	-	< 1.0	< 1.0	-	-	-	< 1.0	-	-
Isopropylbenzene	na	< 1.0	< 1.0	-	-	< 1.0	< 1.0	-	-	-	< 1.0	-	-
Bromobenzene	na	< 1.0	< 1.0	-	-	< 1.0	< 1.0	-	-	-	< 1.0	-	-
1,2,3-Trichloropropane	na	< 50	< 50	-	-	< 50	< 50	-	-	-	< 50	-	-
N-Propylbenzene	na	< 1.0	< 1.0	-	-	< 1.0	< 1.0	-	-	-	< 1.0	-	-
2-Chlorotoluene	na	< 1.0	< 1.0	-	-	< 1.0	< 1.0	-	-	-	< 1.0	-	-
1,3,5-Trimethylbenzene	na	< 1.0	< 1.0	-	-	5.2	< 1.0	-	-	-	< 1.0	-	-
4-Chlorotoluene	na	< 1.0	< 1.0	-	-	< 1.0	< 1.0	-	-	-	< 1.0	-	-
Tert-Butylbenzene	na	< 1.0	< 1.0	-	-	< 1.0	< 1.0	-	-	-	< 1.0	-	-
1,2,4-Trimethylbenzene	330	< 1.0	< 1.0	-	-	6.3	< 1.0	-	-	-	< 1.0	-	-
Sec-Butylbenzene	na	< 1.0	< 1.0	-	-	< 1.0	< 1.0	-	-	-	< 1.0	-	-
1,3-Dichlorobenzene	na	< 1.0	< 1.0	-	-	< 1.0	< 1.0	-	-	-	< 1.0	-	-
4-Isopropyltoluene	na	< 1.0	< 1.0	-	-	< 1.0	< 1.0	-	-	-	< 1.0	-	-
1,4-Dichlorobenzene	na	< 1.0	< 1.0	-	-	< 1.0	< 1.0	-	-	-	< 1.0	-	-
N-Butylbenzene	na	< 1.0	< 1.0	-	-	< 1.0	< 1.0	-	-	-	< 1.0	-	-
1,2-Dichlorobenzene	na	< 1.0	< 1.0	-	-	< 1.0	< 1.0	-	-	-	< 1.0	-	-
1,2-Dibromo-3-Chloropropane	na	< 50	< 50	-	-	< 50	< 50	-	-	-	< 50	-	-
1,2,4-Trichlorobenzene	na	< 1.0	< 1.0	-	-	< 1.0	< 1.0	-	-	-	< 1.0	-	-
Hexachlorobutadiene	na	< 1.0	< 1.0	-	-	< 1.0	< 1.0	-	-	-	< 1.0	-	-
1,2,3-Trichlorobenzene	na	< 2.0	< 2.0	-	-	< 2.0	< 2.0	-	-	-	< 2.0	-	-
Methyl Tert-Butyl Ether	7500	< 1.0	< 1.0	-	-	< 1.0	< 1.0	-	-	-	< 1.0	-	-
N-Nitrosodimethylamine	na	< 0.50	< 0.50	-	-	< 5.80	< 0.50	-	-	-	< 0.50	-	-
Phenol	440	< 0.50	< 0.50	-	-	< 5.80	< 0.50	-	-	-	< 0.50	-	-
2-Chlorophenol	na	< 0.50	< 0.50	-	-	< 5.80	< 0.50	-	-	-	< 0.50	-	-
Bis-(2-Chloroethyl)Ether	na	< 0.50	< 0.50	-	-	< 5.80	< 0.50	-	-	-	< 0.50	-	-
1,3-Dichlorobenzene	na	< 0.50	< 0.50	-	-	< 5.80	< 0.50	-	-	-	< 0.50	-	-
1,4-Dichlorobenzene	na	< 0.50	< 0.50	-	-	< 5.80	< 0.50	-	-	-	< 0.50	-	-
1,2-Dichlorobenzene	na	< 0.50	< 0.50	-	-	< 5.80	< 0.50	-	-	-	< 0.50	-	-
2-Methylphenol	na	< 0.50	< 0.50	-	-	< 5.80	< 0.50	-	-	-	< 0.50	-	-

Bis(2-Chloroisopropyl)Ether	na	< 0.50	< 0.50	-	-	< 5.80	< 0.50	-	-	-	< 0.50	-	-
Hexachloroethane	21	< 0.50	< 0.50	-	-	< 5.80	< 0.50	-	-	-	< 0.50	-	-
N-Nitrosodi-n-propylamine	na	< 0.50	< 0.50	-	-	< 5.80	< 0.50	-	-	-	< 0.50	-	-
4-Methylphenol	na	< 0.50	< 0.50	-	-	< 5.80	< 0.50	-	-	-	< 0.50	-	-
Nitrobenzene	na	< 0.50	< 0.50	-	-	< 5.80	< 0.50	-	-	-	< 0.50	-	-
Isophorone	na	< 0.50	< 0.50	-	-	< 5.80	< 0.50	-	-	-	< 0.50	-	-
2-Nitrophenol	na	< 0.50	< 0.50	-	-	< 5.80	< 0.50	-	-	-	< 0.50	-	-
2,4-Dimethylphenol	na	< 0.50	< 0.50	-	-	< 5.80	< 0.50	-	-	-	< 0.50	-	-
Bis(2-Chloroethoxy)Methane	na	< 0.50	< 0.50	-	-	< 5.80	< 0.50	-	-	-	< 0.50	-	-
2,4-Dichlorophenol	na	< 0.50	< 0.50	-	-	< 5.80	< 0.50	-	-	-	< 0.50	-	-
1,2,4-Trichlorobenzene	na	< 0.50	< 0.50	-	-	< 5.80	< 0.50	-	-	-	< 0.50	-	-
Naphthalene	1800	< 0.50	< 0.50	-	-	> 5800	< 0.50	-	-	-	< 0.50	-	-
4-Chloroaniline	na	< 0.50	< 0.50	-	-	< 5.80	< 0.50	-	-	-	< 0.50	-	-
Hexachlorobutadiene	na	< 0.50	< 0.50	-	-	< 5.80	< 0.50	-	-	-	< 0.50	-	-
4-Chloro-3-Methylphenol	na	< 0.50	< 0.50	-	-	< 5.80	< 0.50	-	-	-	< 0.50	-	-
2-Methylnaphthalene	na	< 0.50	< 0.50	-	-	470	< 0.50	-	-	-	< 0.50	-	-
4-Nitrophenol	na	< 0.50	< 0.50	-	-	< 5.80	< 0.50	-	-	-	< 0.50	-	-
2,4,6-Trichlorophenol	na	< 0.50	< 0.50	-	-	< 5.80	< 0.50	-	-	-	< 0.50	-	-
2,4,5-Trichlorophenol	na	< 0.50	< 0.50	-	-	< 5.80	< 0.50	-	-	-	< 0.50	-	-
2-Chloronaphthalene	370	< 0.50	< 0.50	-	-	< 5.80	< 0.50	-	-	-	< 0.50	-	-
2-Nitroaniline	na	< 0.50	< 0.50	-	-	< 5.80	< 0.50	-	-	-	< 0.50	-	-
Acenaphthylene	110000	< 0.50	< 0.50	-	-	180	< 0.50	-	-	-	< 0.50	-	-
Dimethylphthalate	na	< 0.50	< 0.50	-	-	< 5.80	< 0.50	-	-	-	< 0.50	-	-
2,6-Dinitrotoluene	na	< 0.50	< 0.50	-	-	< 5.80	< 0.50	-	-	-	< 0.50	-	-
Acenaphthene	110000	< 0.50	< 0.50	-	-	1600	< 0.50	-	-	-	< 0.50	-	-
3-Nitroaniline	na	< 0.50	< 0.50	-	-	< 5.80	< 0.50	-	-	-	< 0.50	-	-
Dibenzofuran	na	< 0.50	< 0.50	-	-	890	< 0.50	-	-	-	< 0.50	-	-
4-Chlorophenylphenylether	na	< 0.50	< 0.50	-	-	< 5.80	< 0.50	-	-	-	< 0.50	-	-
2,4-Dinitrotoluene	na	< 0.50	< 0.50	-	-	< 5.80	< 0.50	-	-	-	< 0.50	-	-
Fluorene	63000	< 0.50	< 0.50	-	-	540	< 0.50	-	-	-	< 0.50	-	-
Diethyl Phthalate	na	< 0.50	< 0.50	-	-	< 5.80	< 0.50	-	-	-	< 0.50	-	-
4-Nitroaniline	na	< 0.50	< 0.50	-	-	< 5.80	< 0.50	-	-	-	< 0.50	-	-
Azobenzene	na	< 0.50	< 0.50	-	-	< 5.80	< 0.50	-	-	-	< 0.50	-	-
4-Bromophenylphenyl Ether	na	< 0.50	< 0.50	-	-	< 5.80	< 0.50	-	-	-	< 0.50	-	-
Hexachlorobenzene	na	< 0.50	< 0.50	-	-	< 5.80	< 0.50	-	-	-	< 0.50	-	-
Phenanthrene	22000	1.7	< 0.50	-	-	910	< 0.50	-	-	-	< 0.50	-	-
Anthracene	520000	< 0.50	< 0.50	-	-	450	< 0.50	-	-	-	< 0.50	-	-
Carbazole	na	< 0.50	< 0.50	-	-	3500	< 0.50	-	-	-	< 0.50	-	-
Di-N-Butyl Phthalate	na	< 0.50	< 0.50	-	-	< 5.80	< 0.50	-	-	-	< 0.50	-	-
Fluoranthene	23000	3.3	< 0.50	-	-	700	0.64	-	-	-	< 0.50	-	-
Pyrene	54000	4.5	< 0.50	-	-	480	0.57	-	-	-	< 0.50	-	-
Butylbenzyl Phthalate	na	< 0.50	< 0.50	-	-	< 5.80	< 0.50	-	-	-	< 0.50	-	-
Benzoanthracene	170	< 0.50	< 0.50	-	-	310	< 0.50	-	-	-	< 0.50	-	-
Chrysene	350	< 0.50	< 0.50	-	-	310	< 0.50	-	-	-	< 0.50	-	-
Bis(2-Ethylhexyl)Phthalate	na	9.6	< 0.50	-	-	< 5.80	< 0.50	-	-	-	< 0.50	-	-
Di-N-Octyl Phthalate	na	< 0.50	< 0.50	-	-	< 5.80	< 0.50	-	-	-	< 0.50	-	-
Benzofluoranthene	na	2	< 0.50	-	-	380	1.1	-	-	-	< 0.50	-	-
Benzo[k]fluoranthene	1200	< 0.50	< 0.50	-	-	91	< 0.50	-	-	-	< 0.50	-	-
Benzo(a)pyrene	77	< 0.50	< 0.50	-	-	180	0.62	-	-	-	< 0.50	-	-
Indeno(1,2,3-c,d)Pyrene	500	< 0.50	< 0.50	-	-	160	0.69	-	-	-	< 0.50	-	-
Dibenz(a,h)Anthracene	3.5	< 0.50	< 0.50	-	-	47	< 0.50	-	-	-	< 0.50	-	-
Benzo[g,h,i]perylene	3900	< 0.50	< 0.50	-	-	150	0.88	-	-	-	< 0.50	-	-
Naphthalene	1800	11	< 0.10	0.42	16	380	3.5	66	< 0.10	12	< 0.10	0.15	< 0.10
Acenaphthylene	110000	1.8	< 0.10	0.11	1.2	6.7	2.4	< 0.10	< 0.10	0.65	< 0.10	< 0.10	< 0.10
Acenaphthene	110000	1.9	< 0.10	< 0.10	3.4	41	1	13	< 0.10	3.1	< 0.10	0.19	< 0.10
Fluorene	63000	2	< 0.10	0.11	2	21	1.4	7.3	< 0.10	3.1	< 0.10	0.3	< 0.10
Phenanthrene	22000	2.4	< 0.10	0.78	11	38	2.8	9.2	< 0.10	6.9	0.2	1.6	< 0.10
Anthracene	520000	< 0.10	< 0.10	0.15	2.9	22	1.2	1.6	< 0.10	0.93	< 0.10	0.49	< 0.10
Fluoranthene	23000	3.4	< 0.10	0.87	9.4	32	4.4	2.4	< 0.10	1.9	0.24	1.4	< 0.10
Pyrene	54000	4.3	< 0.10	0.66	7.4	21	3.4	2.5	< 0.10	2.3	0.19	1	< 0.10
Benzoanthracene	170	< 0.10	< 0.10	< 0.10	3.4	12	2.1	< 0.10	< 0.10	0.8	< 0.10	0.28	< 0.10
Chrysene	350	< 0.10	< 0.10	< 0.10	4.1	11	3.1	< 0.10	< 0.10	2.1	< 0.10	0.25	< 0.10
Benzofluoranthene	44	< 0.10	< 0.10	< 0.10	4.9	< 0.10	6.5	< 0.10	< 0.10	1.1	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	1200	< 0.10	< 0.10	< 0.10	1.4	< 0.10	1.9	< 0.10	< 0.10	0.28	< 0.10	< 0.10	< 0.10
Benzopyrene	77	< 0.10	< 0.10	< 0.10	2.9	< 0.10	3.8	< 0.10	< 0.10	0.77	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	500	< 0.10	< 0.10	< 0.10	2.1	< 0.10	5.1	< 0.10	< 0.10	0.35	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	3.5	< 0.10	< 0.10	< 0.10	0.53	< 0.10	1.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	3900	< 0.10	< 0.10	< 0.10	2.1	< 0.10	4.8	< 0.10	< 0.10	0.67	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's	na	27	< 2.0	3.1	75	580	49	100	< 2.0	37	< 2.0	5.7	< 2.0

Notes:

LMDL Laboratory method detection limit

< Result less than the LMDL

GAC generic assessment criteria

- COPC not analysed

Measured concentration in excess of GAC

COPC	Chemtest Job No.	24-29969	24-29969	24-29969	Maximum concentration detected in soil (mg/kg)	Total No. of soil samples analysed	Number of detects in soil above the RTV
	Chemtest Sample ID	1867652	1867654	1867656			
	Client sample ref.						
	Sample location	TP3005	TP3005	BH318			
	Top depth (m)	SOIL	SOIL	SOIL			
	Top depth (m)	1.50	0.70	0.30			
	Depth to bottom (m)						
	Date sampled						
	RSK Commercial GAC 1% som (mg/kg)						
ACM Type	na	-	-	-	0	3	0
Asbestos Identification	na	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	0	87	84
Asbestos by Gravimetry	na				0.004	82	0
Total Asbestos	na				0.004	82	0
Moisture	na	3.7	3.6	11	71	87	0
Soil Colour	na	Brown	Brown	Brown	0	87	0
Other Material	na	Roots and Stones	Stones and Roots	Stones	0	87	87
Soil Texture	na	Sand	Sand	Sand	0	87	62
pH at 20C	na	9.7	9.9	9.3	9.9	3	0
Arsenic	640	7.3	2.8	18	92	87	0
Cadmium	410	0.58	0.11	1.9	5.2	87	0
Chromium	8600	14	14	54	5900	87	0
Copper	68000	21	6	74	470	87	0
Mercury	1120	0.13	< 0.05	0.12	1.9	87	0
Nickel	980	6.8	5.3	30	170	87	0
Lead	2300	70	16	500	690	87	0
Selenium	12000	2.9	2.5	1.2	5.5	87	0
Zinc	740000	200	45	800	2100	87	0
Chromium (Hexavalent)	49	< 0.50	< 0.50	< 0.50	3.5	62	0
Aliphatic VPH >C5-C6	3200	< 0.05	< 0.05	< 0.05	0	87	0
Aliphatic VPH >C6-C7	na	< 0.05	< 0.05	< 0.05	0	87	0
Aliphatic VPH >C7-C8	na	< 0.05	< 0.05	< 0.05	0.35	87	0
Aliphatic VPH >C6-C8 (Sum)	7800	< 0.10	< 0.10	< 0.10	0.35	87	0
Aliphatic VPH >C8-C10	2000	< 0.05	< 0.05	< 0.05	2.7	87	0
Total Aliphatic VPH >C5-C10	na	< 0.25	< 0.25	< 0.25	3.1	87	0
Aliphatic EPH >C10-C12 MC	9700	2	< 2.0	2.5	290	87	0
Aliphatic EPH >C12-C16 MC	59000	< 1.0	< 1.0	< 1.0	3800	87	0
Aliphatic EPH >C16-C21 MC	na	< 2.0	< 2.0	< 2.0	11000	87	0
Aliphatic EPH >C21-C35 MC	1000000	< 3.0	5.5	7.3	110000	87	0
Aliphatic EPH >C35-C40 MC	1000000	< 10	< 10	< 10	20000	87	0
Total Aliphatic EPH >C10-C35 MC	na	< 5.0	7.7	10	120000	87	0
Total Aliphatic EPH >C10-C40 MC	na	< 10	< 10	< 10	140000	87	0
Aromatic VPH >C5-C7	27	< 0.05	< 0.05	< 0.05	0.88	87	0
Aromatic VPH >C7-C8	6000	< 0.05	< 0.05	< 0.05	0	87	0
Aromatic VPH >C8-C10	3500	< 0.05	< 0.05	< 0.05	0.21	87	0
Total Aromatic VPH >C5-C10	na	< 0.25	< 0.25	< 0.25	0.88	87	0
Aromatic EPH >C10-C12 MC	16000	< 1.0	< 1.0	< 1.0	150000	87	1
Aromatic EPH >C12-C16 MC	36000	< 1.0	< 1.0	< 1.0	29000	87	0
Aromatic EPH >C16-C21 MC	28000	5.2	6	8.6	27000	87	0
Aromatic EPH >C21-C35 MC	28000	< 2.0	3.5	6	13000	87	0
Aromatic EPH >C35-C40 MC	28000	< 1.0	< 1.0	14	4700	87	0
Total Aromatic EPH >C10-C35 MC	na	6.1	9.7	15	220000	87	0
Total Aromatic EPH >C10-C40 MC	na	< 10	< 10	29	220000	87	0
Total VPH >C5-C10	na	< 0.50	< 0.50	< 0.50	4	87	0
Total EPH >C10-C35 MC	na	11	17	25	230000	87	0
Total EPH >C10-C40 MC	na	11	17	39	230000	87	0
Naphthalene	1800	-	-	-	2.3	12	0
Acenaphthylene	110000	-	-	-	0.41	12	0
Acenaphthene	110000	-	-	-	0.81	12	0
Fluorene	63000	-	-	-	1	12	0
Phenanthrene	22000	-	-	-	2.6	12	0
Anthracene	520000	-	-	-	0.26	12	0
Fluoranthene	23000	-	-	-	1.4	12	0
Pyrene	54000	-	-	-	1.3	12	0
Benzoanthracene	170	-	-	-	1.6	12	0
Chrysene	350	-	-	-	3.2	12	0
Benzofluoranthene	44	-	-	-	1.5	12	0
Benzo[k]fluoranthene	1200	-	-	-	0.47	12	0
Benzopyrene	77	-	-	-	0.86	12	0
Indeno(1,2,3-c,d)Pyrene	500	-	-	-	0.64	12	0
Dibenz(a,h)Anthracene	3.5	-	-	-	0.19	12	0
Benzo[g,h,i]perylene	3900	-	-	-	0.76	12	0
Total Of 16 PAH's	na	-	-	-	11	12	0
Dichlorodifluoromethane	na	< 1.0	< 1.0	-	0	11	0
Chloromethane	1	< 1.0	< 1.0	-	0	11	0
Vinyl Chloride	1.1	< 1.0	< 1.0	-	0	11	0
Bromomethane	na	< 20	< 20	-	0	11	0
Chloroethane	901	< 2.0	< 2.0	-	0	11	0
Trichlorofluoromethane		< 1.0	< 1.0	-	0	11	0
1,1-Dichloroethene	24	< 1.0	< 1.0	-	0	11	0
Dichloromethane	257	< 50	< 50	-	0	11	0
Trans 1,2-Dichloroethene	21	< 1.0	< 1.0	-	0	11	0
1,1-Dichloroethane	na	< 1.0	< 1.0	-	0	11	0
cis 1,2-Dichloroethene	14	< 1.0	< 1.0	-	0	11	0
Bromochloromethane	na	< 5.0	< 5.0	-	0	11	0
Trichloromethane	na	< 1.0	< 1.0	-	1.2	11	0
1,1,1-Trichloroethane	700	< 1.0	< 1.0	-	0	11	0
Tetrachloromethane	2.9	< 1.0	< 1.0	-	0	11	0
1,1-Dichloropropene	na	< 1.0	< 1.0	-	0	11	0
Benzene	27	< 1.0	< 1.0	-	43	11	1
1,2-Dichloroethane	0.67	< 2.0	< 2.0	-	0	11	0
Trichloroethene	0.7	< 1.0	< 1.0	-	0	11	0
1,2-Dichloropropane	3	< 1.0	< 1.0	-	0	11	0
Dibromomethane	na	< 1.0	< 1.0	-	0	11	0
Bromodichloromethane	na	< 5.0	< 5.0	-	0	11	0
cis-1,3-Dichloropropene	na	< 10	< 10	-	0	11	0
Toluene	56000	< 1.0	< 1.0	-	31	11	0
Trans-1,3-Dichloropropene	na	< 10	< 10	-	0	11	0
1,1,2-Trichloroethane	89	< 10	< 10	-	0	11	0
Tetrachloroethene	24	< 1.0	< 1.0	-	0	11	0
1,3-Dichloropropane	na	< 2.0	< 2.0	-	0	11	0
Dibromochloromethane	na	< 10	< 10	-	0	11	0
1,2-Dibromoethane	na	< 5.0	< 5.0	-	0	11	0
Chlorobenzene	na	< 1.0	< 1.0	-	0	11	0
1,1,1,2-Tetrachloroethane	110	< 2.0	< 2.0	-	0	11	0
Ethylbenzene	6000	< 1.0	< 1.0	-	20	11	0
m & p-Xylene	5900	< 1.0	< 1.0	-	43	11	0
o-Xylene	6600	< 1.0	< 1.0	-	120	11	0
Styrene	na	< 1.0	< 1.0	-	50	11	0
Tribromomethane	na	< 1.0	< 1.0	-	0	11	0
Isopropylbenzene	na	< 1.0	< 1.0	-	0	11	0
Bromobenzene	na	< 1.0	< 1.0	-	0	11	0
1,2,3-Trichloropropane	na	< 50	< 50	-	0	11	0
N-Propylbenzene	na	< 1.0	< 1.0	-	0	11	0
2-Chlorotoluene	na	< 1.0	< 1.0	-	0	11	0
1,3,5-Trimethylbenzene	na	< 1.0	< 1.0	-	5.2	11	0
4-Chlorotoluene	na	< 1.0	< 1.0	-	0	11	0
Tert-Butylbenzene	na	< 1.0	< 1.0	-	0	11	0
1,2,4-Trimethylbenzene	330	< 1.0	< 1.0	-	6.3	11	0
Sec-Butylbenzene	na	< 1.0	< 1.0	-	0	11	0
1,3-Dichlorobenzene	na	< 1.0	< 1.0	-	0	11	0
4-Isopropyltoluene	na	< 1.0	< 1.0	-	0	11	0
1,4-Dichlorobenzene	na	< 1.0	< 1.0	-	0	11	0
N-Butylbenzene	na	< 1.0	< 1.0	-	0	11	0
1,2-Dichlorobenzene	na	< 1.0	< 1.0	-	0	11	0
1,2-Dibromo-3-Chloropropane	na	< 50	< 50	-	0	11	0
1,2,4-Trichlorobenzene	na	< 1.0	< 1.0	-	0	11	0
Hexachlorobutadiene	na	< 1.0	< 1.0	-	0	11	0
1,2,3-Trichlorobenzene	na	< 2.0	< 2.0	-	0	11	0
Methyl Tert-Butyl Ether	7500	< 1.0	< 1.0	-	0	11	0
N-Nitrosodimethylamine	na	< 0.50	< 0.50	-	0	11	0
Phenol	440	< 0.50	< 0.50	-	0	11	0
2-Chlorophenol	na	< 0.50	< 0.50	-	0	11	0
Bis-(2-Chloroethyl)Ether	na	< 0.50	< 0.50	-	0	11	0
1,3-Dichlorobenzene	na	< 0.50	< 0.50	-	0	11	0
1,4-Dichlorobenzene	na	< 0.50	< 0.50	-	0	11	0
1,2-Dichlorobenzene	na	< 0.50	< 0.50	-	0	11	0
2-Methylphenol	na	< 0.50	< 0.50	-	0	11	0

Bis(2-Chloroisopropyl)Ether	na	< 0.50	< 0.50	-	0	11	0
Hexachloroethane	21	< 0.50	< 0.50	-	0	11	0
N-Nitrosodi-n-propylamine	na	< 0.50	< 0.50	-	0	11	0
4-Methylphenol	na	< 0.50	< 0.50	-	0	11	0
Nitrobenzene	na	< 0.50	< 0.50	-	0	11	0
Isophorone	na	< 0.50	< 0.50	-	0	11	0
2-Nitrophenol	na	< 0.50	< 0.50	-	0	11	0
2,4-Dimethylphenol	na	< 0.50	< 0.50	-	0	11	0
Bis(2-Chloroethoxy)Methane	na	< 0.50	< 0.50	-	0	11	0
2,4-Dichlorophenol	na	< 0.50	< 0.50	-	0	11	0
1,2,4-Trichlorobenzene	na	< 0.50	< 0.50	-	0	11	0
Naphthalene	1800	< 0.50	< 0.50	-	0	11	0
4-Chloroaniline	na	< 0.50	< 0.50	-	0	11	0
Hexachlorobutadiene	na	< 0.50	< 0.50	-	0	11	0
4-Chloro-3-Methylphenol	na	< 0.50	< 0.50	-	0	11	0
2-Methylnaphthalene	na	< 0.50	< 0.50	-	470	11	0
4-Nitrophenol	na	< 0.50	< 0.50	-	0	11	0
2,4,6-Trichlorophenol	na	< 0.50	< 0.50	-	0	11	0
2,4,5-Trichlorophenol	na	< 0.50	< 0.50	-	0	11	0
2-Chloronaphthalene	370	< 0.50	< 0.50	-	0	11	0
2-Nitroaniline	na	< 0.50	< 0.50	-	0	11	0
Acenaphthylene	110000	< 0.50	< 0.50	-	180	11	0
Dimethylphthalate	na	< 0.50	< 0.50	-	0	11	0
2,6-Dinitrotoluene	na	< 0.50	< 0.50	-	0	11	0
Acenaphthene	110000	< 0.50	< 0.50	-	1600	11	0
3-Nitroaniline	na	< 0.50	< 0.50	-	0	11	0
Dibenzofuran	na	< 0.50	< 0.50	-	890	11	0
4-Chlorophenylphenylether	na	< 0.50	< 0.50	-	0	11	0
2,4-Dinitrotoluene	na	< 0.50	< 0.50	-	0	11	0
Fluorene	63000	< 0.50	< 0.50	-	540	11	0
Diethyl Phthalate	na	< 0.50	< 0.50	-	0	11	0
4-Nitroaniline	na	< 0.50	< 0.50	-	0	11	0
Azobenzene	na	< 0.50	< 0.50	-	0	11	0
4-Bromophenylphenyl Ether	na	< 0.50	< 0.50	-	0	11	0
Hexachlorobenzene	na	< 0.50	< 0.50	-	0	11	0
Phenanthrene	22000	< 0.50	0.7	-	910	11	0
Anthracene	520000	< 0.50	< 0.50	-	450	11	0
Carbazole	na	< 0.50	< 0.50	-	3500	11	0
Di-N-Butyl Phthalate	na	< 0.50	< 0.50	-	0	11	0
Fluoranthene	23000	< 0.50	1.4	-	700	11	0
Pyrene	54000	< 0.50	0.96	-	480	11	0
Butylbenzyl Phthalate	na	< 0.50	< 0.50	-	0	11	0
Benzoanthracene	170	< 0.50	0.82	-	310	11	1
Chrysene	350	< 0.50	0.81	-	310	11	0
Bis(2-Ethylhexyl)Phthalate	na	< 0.50	< 0.50	-	9.6	11	0
Di-N-Octyl Phthalate	na	< 0.50	< 0.50	-	2.1	11	0
Benzofluoranthene	na	< 0.50	1.1	-	380	11	0
Benzo(k)fluoranthene	1200	< 0.50	< 0.50	-	91	11	0
Benzo(a)pyrene	77	< 0.50	0.63	-	180	11	1
Indeno(1,2,3-c,d)Pyrene	500	< 0.50	< 0.50	-	160	11	0
Dibenz(a,h)Anthracene	3.5	< 0.50	< 0.50	-	47	11	1
Benzo[g,h,i]perylene	3900	< 0.50	< 0.50	-	150	11	0
Naphthalene	1800	< 0.10	< 0.10	0.8	380	75	0
Acenaphthylene	110000	< 0.10	< 0.10	0.12	6.7	75	0
Acenaphthene	110000	< 0.10	< 0.10	< 0.10	41	75	0
Fluorene	63000	< 0.10	< 0.10	0.14	21	75	0
Phenanthrene	22000	< 0.10	< 0.10	1.5	38	75	0
Anthracene	520000	< 0.10	< 0.10	0.29	22	75	0
Fluoranthene	23000	< 0.10	< 0.10	1.9	32	75	0
Pyrene	54000	< 0.10	< 0.10	1.2	21	75	0
Benzoanthracene	170	< 0.10	< 0.10	1.2	12	75	0
Chrysene	350	< 0.10	< 0.10	1.7	11	75	0
Benzofluoranthene	44	< 0.10	< 0.10	2.1	6.5	75	0
Benzo(k)fluoranthene	1200	< 0.10	< 0.10	0.49	3.8	75	0
Benzopyrene	77	< 0.10	< 0.10	0.99	3.8	75	0
Indeno(1,2,3-c,d)Pyrene	500	< 0.10	< 0.10	0.83	5.1	75	0
Dibenz(a,h)Anthracene	3.5	< 0.10	< 0.10	0.31	3.9	75	1
Benzo[g,h,i]perylene	3900	< 0.10	< 0.10	0.9	4.8	75	0
Total Of 16 PAH's	na	< 2.0	< 2.0	15	580	75	0

Notes:

LMDL Laboratory method detection limit

< Result less than the LMDL

GAC generic assessment criteria

- COPC not analysed

Measured concentration in excess of GAC

Comparison of tier 1 values against measured concentrations in soil

RSK GEOSCIENCES

COPC	Chemtest Job No.	24-18337	24-18337	24-18337	24-18337	24-18337	24-18337	24-18337	24-18339	24-18339	24-18339	24-18339	24-18339
	Chemtest Sample ID	1819250	1819251	1819252	1819253	1819254	1819255	1819256	1819263	1819264	1819265	1819266	1819267
	Client sample ref.												
	Sample location	BH323	BH317	BH317	BH317	BH317	BH317	BH317	BH322	BH322	BH322	BH322	BH322
	Top depth (m)	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top depth (m)	0.30	2.2	1.5	0.70	6.50	3.3	4.10	0.20	1.10	1.60	4.40	7.00
	Depth to bottom (m)												
	Date sampled	03/05/2024	07/06/2024	07/06/2024	07/06/2024	07/06/2024	07/06/2024	07/06/2024	07/05/2024	07/05/2024	07/05/2024	07/05/2024	07/05/2024
	RSK Commercial Tier 1 values (mg/kg)												
ACM Type	na	-	-	-	-	-	-	-	-	-	-	-	-
Asbestos Identification	na	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Asbestos by Gravimetry	na												
Total Asbestos	na												
Moisture	na	2.4	16	8.6	7.5	18	27	20	6	12	11	19	57
Soil Colour	na	Black	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material	na	Stones	Stones	Stones	Stones	None	Stones	Stones	Stones	Stones	None	None	Stones and Wood
Soil Texture	na	Sand	Sand	Sand	Sand	Clay	Sand	Clay	Sand	Sand	Sand	Clay	Clay
pH at 20C	na	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	na	2.6	9	14	5.7	18	11	21	3.1	6.6	8.6	13	6.8
Cadmium	na	0.64	< 0.10	0.56	0.4	< 0.10	< 0.10	0.22	0.13	< 0.10	< 0.10	< 0.10	< 0.10
Chromium	na	200	29	1100	1400	36	43	18	680	270	17	40	15
Copper	na	14	3.4	52	42	11	40	27	24	23	2.7	12	4.7
Mercury	na	< 0.05	< 0.05	0.1	0.07	< 0.05	0.09	< 0.05	0.05	0.05	< 0.05	< 0.05	< 0.05
Nickel	na	7.3	4.5	34	20	33	36	20	14	8.7	4.5	34	14
Lead	na	25	11	60	64	22	24	27	62	29	5.2	27	8.9
Selenium	na	< 0.25	0.39	1.7	0.72	0.72	0.75	0.52	3.3	4.4	< 0.25	0.78	0.34
Zinc	na	67	22	190	200	92	89	85	110	47	19	97	37
Chromium (Hexavalent)	na	< 0.50	< 0.50	< 0.50	0.66	< 0.50	< 0.50	< 0.50	-	-	-	-	-
Aliphatic VPH >C5-C6	304	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	na	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	na	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	144	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	78	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	na	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	48	4.4	5.6	7.4	5.9	3.3	9.4	6.4	2.7	4.4	2.5	3.2	7
Aliphatic EPH >C12-C16 MC	24	3.1	6.3	12	6.1	1.2	6.1	4.8	< 1.0	1.1	< 1.0	1.1	2
Aliphatic EPH >C16-C21 MC	na	11	2.9	35	74	< 2.0	3.5	3.4	< 2.0	< 2.0	< 2.0	< 2.0	8.8
Aliphatic EPH >C21-C35 MC	na	180	< 3.0	280	880	< 3.0	< 3.0	10	< 3.0	13	3.6	3.1	32
Aliphatic EPH >C35-C40 MC	na	< 10	< 10	32	110	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Total Aliphatic EPH >C10-C35 MC	na	200	15	340	970	5.5	19	25	< 5.0	19	7.1	7.4	50
Total Aliphatic EPH >C10-C40 MC	na	200	15	370	1100	< 10	19	25	< 10	19	< 10	< 10	50
Aromatic VPH >C5-C7	na	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	518	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	613	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	na	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	364	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	169	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2.2	< 1.0	< 1.0	< 1.0	< 1.0	2.8
Aromatic EPH >C16-C21 MC	na	6.7	3	3.6	6.5	3.3	3.8	3.4	3.7	2.8	2.1	3.7	130
Aromatic EPH >C21-C35 MC	na	5.9	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	19	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Aromatic EPH >C35-C40 MC	na	2.5	1.1	16	42	< 1.0	1.2	33	1.2	< 1.0	< 1.0	< 1.0	94
Total Aromatic EPH >C10-C35 MC	na	13	< 5.0	< 5.0	6.5	< 5.0	< 5.0	24	< 5.0	< 5.0	< 5.0	< 5.0	140
Total Aromatic EPH >C10-C40 MC	na	15	< 10	16	49	< 10	< 10	57	< 10	< 10	< 10	< 10	230
Total VPH >C5-C10	na	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	na	210	18	340	980	< 10	24	49	< 10	22	< 10	11	190
Total EPH >C10-C40 MC	na	220	19	390	1100	< 10	25	82	< 10	22	< 10	11	280
Naphthalene	76	< 0.10	< 0.10	< 0.10	0.59	< 0.10	2.3	< 0.10	-	-	-	-	-
Acenaphthylene	na	< 0.10	< 0.10	< 0.10	0.18	< 0.10	0.41	< 0.10	-	-	-	-	-
Acenaphthene	na	< 0.10	< 0.10	< 0.10	0.21	< 0.10	0.81	< 0.10	-	-	-	-	-
Fluorene	31	< 0.10	< 0.10	< 0.10	0.23	< 0.10	1	< 0.10	-	-	-	-	-
Phenanthrene	na	< 0.10	0.33	< 0.10	0.81	< 0.10	2.6	< 0.10	-	-	-	-	-
Anthracene	na	< 0.10	< 0.10	< 0.10	0.15	< 0.10	0.15	< 0.10	-	-	-	-	-
Fluoranthene	na	< 0.10	0.46	< 0.10	0.74	< 0.10	0.7	< 0.10	-	-	-	-	-
Pyrene	na	< 0.10	0.46	< 0.10	1.2	< 0.10	0.69	< 0.10	-	-	-	-	-
Benzoanthracene	na	< 0.10	0.45	< 0.10	1.6	< 0.10	0.2	< 0.10	-	-	-	-	-
Chrysene	na	< 0.10	0.75	< 0.10	3.2	< 0.10	0.71	< 0.10	-	-	-	-	-
Benzofluoranthene	na	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	-	-	-	-	-
Benzo(k)fluoranthene	na	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	-	-	-	-	-
Benzo(a)pyrene	na	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	-	-	-	-	-
Indeno(1,2,3-c,d)Pyrene	na	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	-	-	-	-	-
Dibenz(a,h)Anthracene	na	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	-	-	-	-	-
Benzo[g,h,i]perylene	na	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	-	-	-	-	-
Total Of 16 PAH's	na	< 2.0	2.5	< 2.0	8.8	< 2.0	9.5	< 2.0	-	-	-	-	-
Dichlorodifluoromethane	na	-	-	-	-	-	-	-	-	-	-	-	-
Chloromethane	na	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	na	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane	na	-	-	-	-	-	-	-	-	-	-	-	-
Chloroethane	na	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane	na	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	na	-	-	-	-	-	-	-	-	-	-	-	-
Dichloromethane	na	-	-	-	-	-	-	-	-	-	-	-	-
Trans 1,2-Dichloroethene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	na	-	-	-	-	-	-	-	-	-	-	-	-
cis 1,2-Dichloroethene	na	-	-	-	-	-	-	-	-	-	-	-	-
Bromochloromethane	na	-	-	-	-	-	-	-	-	-	-	-	-
Trichloromethane	na	-	-	-	-	-	-	-	-	-	-	-	-
1,1,1-Trichloroethane	na	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloromethane	na	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloropropene	na	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	na	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	na	-	-	-	-	-	-	-	-	-	-	-	-
Dibromomethane	na	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	na	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	na	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	869	-	-	-	-	-	-	-	-	-	-	-	-
Trans-1,3-Dichloropropene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	na	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichloropropane	na	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	na	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromoethane	na	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,1,1,2-Tetrachloroethane	na	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	518	-	-	-	-	-	-	-	-	-	-	-	-
m & p-Xylene	na	-	-	-	-	-	-	-	-	-	-	-	-
o-Xylene	na	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	na	-	-	-	-	-	-	-	-	-	-	-	-
Tribromomethane	na	-	-	-	-	-	-	-	-	-	-	-	-
Isopropylbenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
Bromobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3-Trichloropropane	na	-	-	-	-	-	-	-	-	-	-	-	-
N-Propylbenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
2-Chlorotoluene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,3,5-Trimethylbenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
4-Chlorotoluene	na	-	-	-	-	-	-	-	-	-	-	-	-
Tert-Butylbenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trimethylbenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
Sec-Butylbenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
4-Isopropyltoluene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
N-Butylbenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromo-3-Chloropropane	na	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3-Trichlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Tert-Butyl Ether	na	-	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodimethylamine	na	-	-	-	-	-	-	-	-	-	-	-	-
Phenol	na	-	-	-	-	-	-	-	-	-	-	-	-
2-Chlorophenol	na	-	-	-	-	-	-	-	-	-	-	-	-
Bis-(2-Chloroethyl)Ether	na	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-

1,2-Dichlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
2-Methylphenol	na	-	-	-	-	-	-	-	-	-	-	-	-
Bis(2-Chloroisopropyl)Ether	na	-	-	-	-	-	-	-	-	-	-	-	-
Hexachloroethane	8	-	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	na	-	-	-	-	-	-	-	-	-	-	-	-
4-Methylphenol	na	-	-	-	-	-	-	-	-	-	-	-	-
Nitrobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
Isophorone	na	-	-	-	-	-	-	-	-	-	-	-	-
2-Nitrophenol	na	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	na	-	-	-	-	-	-	-	-	-	-	-	-
Bis(2-Chloroethoxy)Methane	na	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	na	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	76	-	-	-	-	-	-	-	-	-	-	-	-
4-Chloroaniline	na	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	na	-	-	-	-	-	-	-	-	-	-	-	-
4-Chloro-3-Methylphenol	na	-	-	-	-	-	-	-	-	-	-	-	-
2-Methylnaphthalene	na	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	na	-	-	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	na	-	-	-	-	-	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	na	-	-	-	-	-	-	-	-	-	-	-	-
2-Chloronaphthalene	114	-	-	-	-	-	-	-	-	-	-	-	-
2-Nitroaniline	na	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	na	-	-	-	-	-	-	-	-	-	-	-	-
Dimethylphthalate	na	-	-	-	-	-	-	-	-	-	-	-	-
2,6-Dinitrotoluene	na	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthene	na	-	-	-	-	-	-	-	-	-	-	-	-
3-Nitroaniline	na	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	na	-	-	-	-	-	-	-	-	-	-	-	-
4-Chlorophenylphenylether	na	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrotoluene	na	-	-	-	-	-	-	-	-	-	-	-	-
Fluorene	31	-	-	-	-	-	-	-	-	-	-	-	-
Diethyl Phthalate	na	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitroaniline	na	-	-	-	-	-	-	-	-	-	-	-	-
Azobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
4-Bromophenylphenyl Ether	na	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	na	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene	na	-	-	-	-	-	-	-	-	-	-	-	-
Carbazole	na	-	-	-	-	-	-	-	-	-	-	-	-
Di-N-Butyl Phthalate	na	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	na	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene	na	-	-	-	-	-	-	-	-	-	-	-	-
Butylbenzyl Phthalate	na	-	-	-	-	-	-	-	-	-	-	-	-
Benzoanthracene	na	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	na	-	-	-	-	-	-	-	-	-	-	-	-
Bis(2-Ethylhexyl)Phthalate	na	-	-	-	-	-	-	-	-	-	-	-	-
Di-N-Octyl Phthalate	na	-	-	-	-	-	-	-	-	-	-	-	-
Benzofluoranthene	na	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	na	-	-	-	-	-	-	-	-	-	-	-	-
Benzopyrene	na	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-c,d)Pyrene	na	-	-	-	-	-	-	-	-	-	-	-	-
Dibenz(a,h)Anthracene	na	-	-	-	-	-	-	-	-	-	-	-	-
Benzo[g,h,i]perylene	na	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	76	-	-	-	-	-	-	-	0.33	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	na	-	-	-	-	-	-	-	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	na	-	-	-	-	-	-	-	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	31	-	-	-	-	-	-	-	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	na	-	-	-	-	-	-	-	0.36	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	na	-	-	-	-	-	-	-	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	na	-	-	-	-	-	-	-	0.39	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene	na	-	-	-	-	-	-	-	0.35	< 0.10	< 0.10	< 0.10	< 0.10
Benzoanthracene	na	-	-	-	-	-	-	-	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene	na	-	-	-	-	-	-	-	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzofluoranthene	na	-	-	-	-	-	-	-	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(k)fluoranthene	na	-	-	-	-	-	-	-	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzopyrene	na	-	-	-	-	-	-	-	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	na	-	-	-	-	-	-	-	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	na	-	-	-	-	-	-	-	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	na	-	-	-	-	-	-	-	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's	na	-	-	-	-	-	-	-	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0

Notes:

LMDL Laboratory method detection limit

< Result less than the LMDL

GAC Generic assessment criteria

- COPC not analysed

Measured concentration in excess of Tier 1 value

Comparison of tier 1 values against measured concentrations in soil

RSK GEOSCIENCES

COPC	Chemtest Job No.	24-18339	24-19025	24-19025	24-19025	24-19025	24-19025	24-19025	24-19335	24-19335	24-19915	24-19915	24-19915
	Chemtest Sample ID	1819268	1821789	1821790	1821791	1821792	1821793	1821794	1822927	1822928	1825240	1825242	1825243
	Client sample ref.												
	Sample location	BH322	BH317	BH317	BH317	BH324	BH324	BH324	BH324	BH324	BH319	BH319	BH319
	Top depth (m)	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top depth (m)	12.00	10.50	14.00	17.50	0.20	0.70	3.50	4.80	7.00	0.50	2.50	450
	Depth to bottom (m)												
	Date sampled	07/05/2024	12/06/2024	12/06/2024	12/06/2024	12/06/2024	12/06/2024	12/06/2024	14/06/2024	14/06/2024	19/06/2024	19/06/2024	19/06/2024
	RSK Commercial Tier 1 values (mg/kg)												
ACM Type	na	-	-	-	-	-	-	-	-	-	Fibres/Clumps	-	-
Asbestos Identification	na	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	Amosite	No Asbestos Detected	No Asbestos Detected
Asbestos by Gravimetry	na										0.004		
Total Asbestos	na										0.004		
Moisture	na	13	17	7.9	16	7.1	10	20	22	39	10	20	21
Soil Colour	na	Brown	Grey	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material	na	Stones	None	Stones	None	Stones	Stones	None	None	Wood and Stones	Stones and Roots	None	None
Soil Texture	na	Sand	Clay	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Loam	Sand	Clay
pH at 20C	na	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	na	11	4.3	7.1	9.1	6	16	22	7.3	18	4.3	7.5	16
Cadmium	na	< 0.10	< 0.10	< 0.10	< 0.10	0.33	0.14	0.28	< 0.10	< 0.10	0.14	< 0.10	< 0.10
Chromium	na	19	14	10	11	450	120	18	7.8	17	47	9.5	34
Copper	na	14	5.6	14	9.3	24	36	42	3.5	7.3	7.4	1.3	12
Mercury	na	< 0.05	< 0.05	< 0.05	< 0.05	0.06	0.05	< 0.05	< 0.05	< 0.05	1.9	0.05	< 0.05
Nickel	na	35	13	18	24	16	17	15	6.8	12	6.1	3	34
Lead	na	14	7.6	11	8.8	49	46	40	6.6	11	57	4.5	23
Selenium	na	0.5	< 0.25	< 0.25	0.3	1.2	1.6	0.76	< 0.25	0.32	1	< 0.25	< 0.25
Zinc	na	82	38	63	83	140	79	92	26	43	110	9.8	88
Chromium (Hexavalent)	na	-	-	-	-	-	-	-	-	-	-	-	-
Aliphatic VPH >C5-C6	304	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	na	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	na	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	144	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	78	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	na	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	48	3.7	3	2.8	< 2.0	6.7	6.2	6.2	9.7	5.4	7.8	10	8.2
Aliphatic EPH >C12-C16 MC	24	1.2	1.1	1	1.1	1.8	2.1	4.1	10	1.4	3.2	11	3.4
Aliphatic EPH >C16-C21 MC	na	< 2.0	< 2.0	< 2.0	< 2.0	4.5	2.1	< 2.0	7.2	9.7	< 2.0	18	< 2.0
Aliphatic EPH >C21-C35 MC	na	12	< 3.0	< 3.0	< 3.0	280	6.5	4.5	14	45	< 3.0	68	4.9
Aliphatic EPH >C35-C40 MC	na	< 10	< 10	< 10	< 10	10	< 10	< 10	< 10	< 10	< 10	17	< 10
Total Aliphatic EPH >C10-C35 MC	na	17	5.6	< 5.0	< 5.0	290	17	17	42	61	12	110	17
Total Aliphatic EPH >C10-C40 MC	na	17	< 10	< 10	< 10	300	17	17	42	61	12	120	17
Aromatic VPH >C5-C7	na	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	518	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	613	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	na	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	364	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2	1.2
Aromatic EPH >C12-C16 MC	169	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.5	< 1.0	1.3	< 1.0
Aromatic EPH >C16-C21 MC	na	2.1	3.4	2.6	3.1	3.8	< 2.0	2.7	2.8	32	< 2.0	3.2	< 2.0
Aromatic EPH >C21-C35 MC	na	< 2.0	2.1	< 2.0	< 2.0	2.8	< 2.0	7.4	< 2.0	< 2.0	< 2.0	24	< 2.0
Aromatic EPH >C35-C40 MC	na	1.7	< 1.0	< 1.0	< 1.0	4.8	28	2.1	3.9	200	< 1.0	4.1	1.5
Total Aromatic EPH >C10-C35 MC	na	< 5.0	5.5	< 5.0	< 5.0	6.6	< 5.0	10	< 5.0	34	< 5.0	30	< 5.0
Total Aromatic EPH >C10-C40 MC	na	< 10	< 10	< 10	< 10	11	28	12	< 10	230	< 10	34	< 10
Total VPH >C5-C10	na	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	na	19	11	< 10	< 10	300	18	27	45	96	14	140	19
Total EPH >C10-C40 MC	na	20	11	< 10	< 10	310	46	29	49	300	14	160	20
Naphthalene	76	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	na	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthene	na	-	-	-	-	-	-	-	-	-	-	-	-
Fluorene	31	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	na	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene	na	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	na	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene	na	-	-	-	-	-	-	-	-	-	-	-	-
Benzoanthracene	na	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	na	-	-	-	-	-	-	-	-	-	-	-	-
Benzofluoranthene	na	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	na	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	na	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-c,d)Pyrene	na	-	-	-	-	-	-	-	-	-	-	-	-
Dibenz(a,h)Anthracene	na	-	-	-	-	-	-	-	-	-	-	-	-
Benzo[g,h,i]perylene	na	-	-	-	-	-	-	-	-	-	-	-	-
Total Of 16 PAH's	na	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane	na	-	-	-	-	-	-	-	-	-	-	-	-
Chloromethane	na	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	na	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane	na	-	-	-	-	-	-	-	-	-	-	-	-
Chloroethane	na	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane	na	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	na	-	-	-	-	-	-	-	-	-	-	-	-
Dichloromethane	na	-	-	-	-	-	-	-	-	-	-	-	-
Trans 1,2-Dichloroethene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	na	-	-	-	-	-	-	-	-	-	-	-	-
cis 1,2-Dichloroethene	na	-	-	-	-	-	-	-	-	-	-	-	-
Bromochloromethane	na	-	-	-	-	-	-	-	-	-	-	-	-
Trichloromethane	na	-	-	-	-	-	-	-	-	-	-	-	-
1,1,1-Trichloroethane	na	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloromethane	na	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloropropene	na	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	na	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	na	-	-	-	-	-	-	-	-	-	-	-	-
Dibromomethane	na	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	na	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	na	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	869	-	-	-	-	-	-	-	-	-	-	-	-
Trans-1,3-Dichloropropene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	na	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichloropropane	na	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	na	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromoethane	na	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,1,1,2-Tetrachloroethane	na	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	518	-	-	-	-	-	-	-	-	-	-	-	-
m & p-Xylene	na	-	-	-	-	-	-	-	-	-	-	-	-
o-Xylene	na	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	na	-	-	-	-	-	-	-	-	-	-	-	-
Tribromomethane	na	-	-	-	-	-	-	-	-	-	-	-	-
Isopropylbenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
Bromobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3-Trichloropropane	na	-	-	-	-	-	-	-	-	-	-	-	-
N-Propylbenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
2-Chlorotoluene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,3,5-Trimethylbenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
4-Chlorotoluene	na	-	-	-	-	-	-	-	-	-	-	-	-
Tert-Butylbenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trimethylbenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
Sec-Butylbenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
4-Isopropyltoluene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
N-Butylbenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromo-3-Chloropropane	na	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3-Trichlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Tert-Butyl Ether	na	-	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodimethylamine	na	-	-	-	-	-	-	-	-	-	-	-	-
Phenol	na	-	-	-	-	-	-	-	-	-	-	-	-
2-Chlorophenol	na	-	-	-	-	-	-	-	-	-	-	-	-
Bis-(2-Chloroethyl)Ether	na	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-

1,2-Dichlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
2-Methylphenol	na	-	-	-	-	-	-	-	-	-	-	-	-
Bis(2-Chloroisopropyl)Ether	na	-	-	-	-	-	-	-	-	-	-	-	-
Hexachloroethane	8	-	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	na	-	-	-	-	-	-	-	-	-	-	-	-
4-Methylphenol	na	-	-	-	-	-	-	-	-	-	-	-	-
Nitrobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
Isophorone	na	-	-	-	-	-	-	-	-	-	-	-	-
2-Nitrophenol	na	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	na	-	-	-	-	-	-	-	-	-	-	-	-
Bis(2-Chloroethoxy)Methane	na	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	na	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	76	-	-	-	-	-	-	-	-	-	-	-	-
4-Chloroaniline	na	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	na	-	-	-	-	-	-	-	-	-	-	-	-
4-Chloro-3-Methylphenol	na	-	-	-	-	-	-	-	-	-	-	-	-
2-Methylnaphthalene	na	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	na	-	-	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	na	-	-	-	-	-	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	na	-	-	-	-	-	-	-	-	-	-	-	-
2-Chloronaphthalene	114	-	-	-	-	-	-	-	-	-	-	-	-
2-Nitroaniline	na	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	na	-	-	-	-	-	-	-	-	-	-	-	-
Dimethylphthalate	na	-	-	-	-	-	-	-	-	-	-	-	-
2,6-Dinitrotoluene	na	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthene	na	-	-	-	-	-	-	-	-	-	-	-	-
3-Nitroaniline	na	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	na	-	-	-	-	-	-	-	-	-	-	-	-
4-Chlorophenylphenylether	na	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrotoluene	na	-	-	-	-	-	-	-	-	-	-	-	-
Fluorene	31	-	-	-	-	-	-	-	-	-	-	-	-
Diethyl Phthalate	na	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitroaniline	na	-	-	-	-	-	-	-	-	-	-	-	-
Azobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
4-Bromophenylphenyl Ether	na	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	na	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene	na	-	-	-	-	-	-	-	-	-	-	-	-
Carbazole	na	-	-	-	-	-	-	-	-	-	-	-	-
Di-N-Butyl Phthalate	na	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	na	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene	na	-	-	-	-	-	-	-	-	-	-	-	-
Butylbenzyl Phthalate	na	-	-	-	-	-	-	-	-	-	-	-	-
Benzoanthracene	na	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	na	-	-	-	-	-	-	-	-	-	-	-	-
Bis(2-Ethylhexyl)Phthalate	na	-	-	-	-	-	-	-	-	-	-	-	-
Di-N-Octyl Phthalate	na	-	-	-	-	-	-	-	-	-	-	-	-
Benzofluoranthene	na	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	na	-	-	-	-	-	-	-	-	-	-	-	-
Benzopyrene	na	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-c,d)Pyrene	na	-	-	-	-	-	-	-	-	-	-	-	-
Dibenz(a,h)Anthracene	na	-	-	-	-	-	-	-	-	-	-	-	-
Benzo[g,h,i]perylene	na	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	76	< 0.10	< 0.10	< 0.10	< 0.10	0.41	< 0.10	< 0.10	< 0.10	< 0.10	3.5	0.1	0.7
Acenaphthylene	na	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	1.2	< 0.10	< 0.10
Acenaphthene	na	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	1.1	< 0.10	0.12
Fluorene	31	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.93	< 0.10	0.15
Phenanthrene	na	0.17	< 0.10	< 0.10	< 0.10	0.42	< 0.10	0.59	< 0.10	< 0.10	2	< 0.10	0.82
Anthracene	na	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.67	< 0.10	0.19
Fluoranthene	na	0.15	< 0.10	< 0.10	< 0.10	0.38	< 0.10	0.27	< 0.10	0.28	2.6	< 0.10	0.31
Pyrene	na	0.14	< 0.10	< 0.10	< 0.10	0.3	< 0.10	0.25	< 0.10	0.26	1.9	< 0.10	0.22
Benzoanthracene	na	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	1.3	< 0.10	0.16
Chrysene	na	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	1.6	< 0.10	0.2
Benzofluoranthene	na	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	2.6	< 0.10	0.24
Benzo(k)fluoranthene	na	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.83	< 0.10	0.22
Benzopyrene	na	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	1.5	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	na	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	1.6	< 0.10	0.19
Dibenz(a,h)Anthracene	na	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.33	< 0.10	< 0.10
Benzo[g,h,i]perylene	na	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	1.3	< 0.10	0.18
Total Of 16 PAH's	na	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	25	< 2.0	3.7

Notes:

LMDL Laboratory method detection limit

< Result less than the LMDL

GAC Generic assessment criteria

- COPC not analysed

Measured concentration in excess of Tier 1 value

Comparison of tier 1 values against measured concentrations in soil

RSK GEOSCIENCES

COPC	Chemtest Job No.	24-19915	24-19915	24-19915	24-21511	24-21511	24-21511	24-21511	24-21511	24-21979	24-21979	24-21979	24-21979
	Chemtest Sample ID	1825245	1825246	1825247	1831342	1831343	1831344	1831345	1831346	1833600	1833601	1833602	1833603
	Client sample ref.				ES	ES	ES	ES	ES	2	3	4	5
	Sample location	BH320	BH320	BH320	BH331	BH331	BH329	BH328	BH328	BH312	BH312	BH312	BH312
	Top depth (m)	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top depth (m)	0.50	1.50	3.60	0.4	2.0	4.5	0.5	1.5	1.50	2.70	3.70	6.00
	Depth to bottom (m)												
	Date sampled	19/06/2024	19/06/2024	19/06/2024	04/07/2024	04/07/2024	04/07/2024	04/07/2024	04/07/2024	08/07/2024	08/07/2024	08/07/2024	08/07/2024
	RSK Commercial Tier 1 values (mg/kg)												
ACM Type	na	-	-	-	-	-	-	-	-	-	-	-	-
Asbestos Identification	na	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Asbestos by Gravimetry	na												
Total Asbestos	na												
Moisture	na	4.5	19	24	8.4	5.9	5	4.1	19	8.8	8	21	15
Soil Colour	na	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Grey	Brown	Brown	Brown
Other Material	na	Stones	Stones	Roots	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones
Soil Texture	na	Loam	Clay	Clay	Loam	Sand	Sand	Loam	Loam	Sand	Sand	Sand	Sand
pH at 20C	na	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	na	6.4	9.9	15	2.9	9	6.3	4.1	8.2	7.8	9.3	15	14
Cadmium	na	< 0.10	< 0.10	< 0.10	0.6	< 0.10	0.18	0.45	< 0.10	< 0.10	0.49	0.43	< 0.10
Chromium	na	26	46	29	550	19	170	1300	56	9.9	460	360	19
Copper	na	42	13	8.8	32	2.7	24	44	8.7	1.8	51	29	7.2
Mercury	na	0.08	0.12	< 0.05	< 0.05	< 0.05	0.05	< 0.05	< 0.05	< 0.05	0.12	< 0.05	0.05
Nickel	na	11	18	31	23	4.9	9.9	27	9.4	7.2	22	17	13
Lead	na	42	25	18	24	5.9	36	23	14	3.1	200	43	6
Selenium	na	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	0.29	0.61	< 0.25
Zinc	na	73	64	73	500	15	75	130	34	14	460	140	35
Chromium (Hexavalent)	na	-	-	-	-	-	-	-	-	0.89	0.61	< 0.50	< 0.50
Aliphatic VPH >C5-C6	304	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	na	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	na	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	144	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	78	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	na	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	48	7.3	8.5	14	6.8	7.2	7.9	7.8	10	7.5	3	5.7	4.2
Aliphatic EPH >C12-C16 MC	24	2.1	5.9	22	2.6	2.9	4.6	6	21	2.3	< 1.0	3.4	31
Aliphatic EPH >C16-C21 MC	na	< 2.0	3.5	75	< 2.0	< 2.0	3.2	5.1	29	5.8	6.6	6.7	< 2.0
Aliphatic EPH >C21-C35 MC	na	4.4	25	430	< 3.0	< 3.0	92	16	26	130	120	39	40
Aliphatic EPH >C35-C40 MC	na	< 10	< 10	81	< 10	< 10	27	< 10	< 10	34	45	18	16
Total Aliphatic EPH >C10-C35 MC	na	14	43	540	12	11	110	35	87	140	130	55	75
Total Aliphatic EPH >C10-C40 MC	na	14	43	620	12	11	130	35	87	170	170	73	91
Aromatic VPH >C5-C7	na	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	518	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	613	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	na	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	364	< 1.0	1.4	5.8	< 1.0	1.3	< 1.0	1.7	1.3	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	169	< 1.0	< 1.0	20	< 1.0	< 1.0	< 1.0	8.5	5	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C16-C21 MC	na	< 2.0	< 2.0	36	< 2.0	< 2.0	< 2.0	84	2.7	3.3	5.3	11	< 2.0
Aromatic EPH >C21-C35 MC	na	4.3	6.2	4.4	< 2.0	< 2.0	3.7	340	17	17	9	15	< 2.0
Aromatic EPH >C35-C40 MC	na	2.1	1.3	7.8	3.8	< 1.0	3.5	61	57	5.6	8.7	11	1.8
Total Aromatic EPH >C10-C35 MC	na	5.1	8.6	66	< 5.0	< 5.0	5.8	430	26	21	14	26	< 5.0
Total Aromatic EPH >C10-C40 MC	na	< 10	< 10	74	< 10	< 10	< 10	490	83	27	23	37	< 10
Total VPH >C5-C10	na	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	na	19	52	610	14	12	110	470	110	160	140	81	79
Total EPH >C10-C40 MC	na	21	53	700	18	12	140	530	170	200	200	110	97
Naphthalene	76	-	-	-	-	-	-	-	-	< 0.10	< 0.10	1.7	2.3
Acenaphthylene	na	-	-	-	-	-	-	-	-	< 0.10	< 0.10	0.21	< 0.10
Acenaphthene	na	-	-	-	-	-	-	-	-	< 0.10	< 0.10	0.13	< 0.10
Fluorene	31	-	-	-	-	-	-	-	-	< 0.10	< 0.10	0.28	< 0.10
Phenanthrene	na	-	-	-	-	-	-	-	-	< 0.10	0.88	1	0.71
Anthracene	na	-	-	-	-	-	-	-	-	< 0.10	0.18	0.25	0.26
Fluoranthene	na	-	-	-	-	-	-	-	-	< 0.10	1.4	0.82	1.4
Pyrene	na	-	-	-	-	-	-	-	-	< 0.10	1.2	0.7	1.3
Benzoanthracene	na	-	-	-	-	-	-	-	-	< 0.10	0.8	0.34	0.71
Chrysene	na	-	-	-	-	-	-	-	-	< 0.10	0.9	0.46	0.74
Benzofluoranthene	na	-	-	-	-	-	-	-	-	< 0.10	1.5	0.43	0.99
Benzo(k)fluoranthene	na	-	-	-	-	-	-	-	-	< 0.10	0.47	0.16	0.34
Benzo(a)pyrene	na	-	-	-	-	-	-	-	-	< 0.10	0.86	< 0.10	0.76
Indeno(1,2,3-c,d)Pyrene	na	-	-	-	-	-	-	-	-	< 0.10	0.64	< 0.10	0.57
Dibenz(a,h)Anthracene	na	-	-	-	-	-	-	-	-	< 0.10	0.19	< 0.10	< 0.10
Benzo[g,h,i]perylene	na	-	-	-	-	-	-	-	-	< 0.10	0.76	< 0.10	0.6
Total Of 16 PAH's	na	-	-	-	-	-	-	-	-	< 2.0	9.8	6.5	11
Dichlorodifluoromethane	na	-	-	-	-	-	-	-	-	-	-	-	-
Chloromethane	na	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	na	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane	na	-	-	-	-	-	-	-	-	-	-	-	-
Chloroethane	na	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane	na	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	na	-	-	-	-	-	-	-	-	-	-	-	-
Dichloromethane	na	-	-	-	-	-	-	-	-	-	-	-	-
Trans 1,2-Dichloroethene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	na	-	-	-	-	-	-	-	-	-	-	-	-
cis 1,2-Dichloroethene	na	-	-	-	-	-	-	-	-	-	-	-	-
Bromochloromethane	na	-	-	-	-	-	-	-	-	-	-	-	-
Trichloromethane	na	-	-	-	-	-	-	-	-	-	-	-	-
1,1,1-Trichloroethane	na	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloromethane	na	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloropropene	na	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	na	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	na	-	-	-	-	-	-	-	-	-	-	-	-
Dibromomethane	na	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	na	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	na	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	869	-	-	-	-	-	-	-	-	-	-	-	-
Trans-1,3-Dichloropropene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	na	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichloropropane	na	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	na	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromoethane	na	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,1,1,2-Tetrachloroethane	na	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	518	-	-	-	-	-	-	-	-	-	-	-	-
m & p-Xylene	na	-	-	-	-	-	-	-	-	-	-	-	-
o-Xylene	na	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	na	-	-	-	-	-	-	-	-	-	-	-	-
Tribromomethane	na	-	-	-	-	-	-	-	-	-	-	-	-
Isopropylbenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
Bromobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3-Trichloropropane	na	-	-	-	-	-	-	-	-	-	-	-	-
N-Propylbenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
2-Chlorotoluene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,3,5-Trimethylbenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
4-Chlorotoluene	na	-	-	-	-	-	-	-	-	-	-	-	-
Tert-Butylbenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trimethylbenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
Sec-Butylbenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
4-Isopropyltoluene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
N-Butylbenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromo-3-Chloropropane	na	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3-Trichlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Tert-Butyl Ether	na	-	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodimethylamine	na	-	-	-	-	-	-	-	-	-	-	-	-
Phenol	na	-	-	-	-	-	-	-	-	-	-	-	-
2-Chlorophenol	na	-	-	-	-	-	-	-	-	-	-	-	-
Bis-(2-Chloroethyl)Ether	na	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-

1,2-Dichlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
2-Methylphenol	na	-	-	-	-	-	-	-	-	-	-	-	-
Bis(2-Chloroisopropyl)Ether	na	-	-	-	-	-	-	-	-	-	-	-	-
Hexachloroethane	8	-	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	na	-	-	-	-	-	-	-	-	-	-	-	-
4-Methylphenol	na	-	-	-	-	-	-	-	-	-	-	-	-
Nitrobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
Isophorone	na	-	-	-	-	-	-	-	-	-	-	-	-
2-Nitrophenol	na	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	na	-	-	-	-	-	-	-	-	-	-	-	-
Bis(2-Chloroethoxy)Methane	na	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	na	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	76	-	-	-	-	-	-	-	-	-	-	-	-
4-Chloroaniline	na	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	na	-	-	-	-	-	-	-	-	-	-	-	-
4-Chloro-3-Methylphenol	na	-	-	-	-	-	-	-	-	-	-	-	-
2-Methylnaphthalene	na	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	na	-	-	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	na	-	-	-	-	-	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	na	-	-	-	-	-	-	-	-	-	-	-	-
2-Chloronaphthalene	114	-	-	-	-	-	-	-	-	-	-	-	-
2-Nitroaniline	na	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	na	-	-	-	-	-	-	-	-	-	-	-	-
Dimethylphthalate	na	-	-	-	-	-	-	-	-	-	-	-	-
2,6-Dinitrotoluene	na	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthene	na	-	-	-	-	-	-	-	-	-	-	-	-
3-Nitroaniline	na	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	na	-	-	-	-	-	-	-	-	-	-	-	-
4-Chlorophenylphenylether	na	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrotoluene	na	-	-	-	-	-	-	-	-	-	-	-	-
Fluorene	31	-	-	-	-	-	-	-	-	-	-	-	-
Diethyl Phthalate	na	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitroaniline	na	-	-	-	-	-	-	-	-	-	-	-	-
Azobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
4-Bromophenylphenyl Ether	na	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	na	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene	na	-	-	-	-	-	-	-	-	-	-	-	-
Carbazole	na	-	-	-	-	-	-	-	-	-	-	-	-
Di-N-Butyl Phthalate	na	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	na	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene	na	-	-	-	-	-	-	-	-	-	-	-	-
Butylbenzyl Phthalate	na	-	-	-	-	-	-	-	-	-	-	-	-
Benzoanthracene	na	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	na	-	-	-	-	-	-	-	-	-	-	-	-
Bis(2-Ethylhexyl)Phthalate	na	-	-	-	-	-	-	-	-	-	-	-	-
Di-N-Octyl Phthalate	na	-	-	-	-	-	-	-	-	-	-	-	-
Benzofluoranthene	na	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	na	-	-	-	-	-	-	-	-	-	-	-	-
Benzopyrene	na	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-c,d)Pyrene	na	-	-	-	-	-	-	-	-	-	-	-	-
Dibenz(a,h)Anthracene	na	-	-	-	-	-	-	-	-	-	-	-	-
Benzo[g,h,i]perylene	na	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	76	< 0.10	3.7	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	-	-	-	-
Acenaphthylene	na	< 0.10	0.16	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	-	-	-	-
Acenaphthene	na	< 0.10	0.49	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	-	-	-	-
Fluorene	31	< 0.10	0.74	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	-	-	-	-
Phenanthrene	na	0.47	5.4	< 0.10	< 0.10	< 0.10	0.15	0.24	< 0.10	-	-	-	-
Anthracene	na	< 0.10	0.93	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	-	-	-	-
Fluoranthene	na	0.29	1.9	< 0.10	< 0.10	< 0.10	0.17	0.14	< 0.10	-	-	-	-
Pyrene	na	0.26	1.3	< 0.10	< 0.10	< 0.10	0.13	< 0.10	< 0.10	-	-	-	-
Benzoanthracene	na	< 0.10	1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	-	-	-	-
Chrysene	na	< 0.10	1.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	-	-	-	-
Benzofluoranthene	na	< 0.10	1.7	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	-	-	-	-
Benzo(k)fluoranthene	na	< 0.10	0.48	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	-	-	-	-
Benzopyrene	na	< 0.10	0.77	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	-	-	-	-
Indeno(1,2,3-c,d)Pyrene	na	< 0.10	0.86	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	-	-	-	-
Dibenz(a,h)Anthracene	na	< 0.10	0.17	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	-	-	-	-
Benzo[g,h,i]perylene	na	< 0.10	0.72	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	-	-	-	-
Total Of 16 PAH's	na	< 2.0	21	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	-	-	-	-

Notes:

LMDL Laboratory method detection limit

< Result less than the LMDL

GAC Generic assessment criteria

- COPC not analysed

Measured concentration in excess of Tier 1 value

Comparison of tier 1 values against measured concentrations in soil

COPC	Chemtest Job No.	24-21979	24-21980	24-21980	24-21980	24-21980	24-22474	24-22474	24-22474	24-22474	24-22474	24-24075	24-24075
	Chemtest Sample ID	1833604	1833606	1833608	1833609	1833610	1835788	1835789	1835790	1835791	1835792	1842400	1842401
	Client sample ref.	5	1	3	4	5	1	2	3	1	2	ES1	ES2
	Sample location	BH331	BH311	BH311	BH311	BH311	TP389	TP389	TP389	TP390	TP390	TP308	TP308
	Top depth (m)	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top depth (m)	8.50	0.50	2.50	3.50	4.20	0.5	1.60	2.80	0.70	3.50	0.6	1.0
	Depth to bottom (m)												
	Date sampled	08/07/2024	08/07/2024	08/07/2024	08/07/2024	08/07/2024	11/07/2024	11/07/2024	11/07/2024	11/07/2024	11/07/2024	25/07/2024	25/07/2024
	RSK Commercial Tier 1 values (mg/kg)												
ACM Type	na	-	-	-	-	-	-	-	-	-	-	-	-
Asbestos Identification	na	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Asbestos by Gravimetry	na												
Total Asbestos	na												
Moisture	na	15	3.8	4.4	3.8	10	8.4	6.6	6.6	7	19	6	6.8
Soil Colour	na	Brown	Grey	Grey	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material	na	None	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones
Soil Texture	na	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Clay	Sand	Sand
pH at 20C	na	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	na	6.1	5.9	3.6	8	7.4	4.6	4.3	8.5	8.1	5	2.5	14
Cadmium	na	< 0.10	< 0.10	< 0.10	0.73	< 0.10	0.48	0.15	0.12	0.44	< 0.10	0.88	0.85
Chromium	na	4.8	2500	1600	2100	800	1300	820	140	530	31	880	860
Copper	na	0.72	41	37	46	16	41	23	8.9	42	4	28	94
Mercury	na	< 0.05	0.05	< 0.05	0.06	0.05	0.06	0.05	< 0.05	0.07	< 0.05	0.58	0.3
Nickel	na	4.1	19	9.9	30	9.5	27	20	8.7	37	11	25	44
Lead	na	2.8	10	16	40	27	43	21	13	47	8.5	46	130
Selenium	na	< 0.25	1.2	5.5	1.7	1.1	0.82	0.49	0.37	0.81	0.3	0.87	1.3
Zinc	na	14	34	59	130	84	260	210	55	110	34	320	350
Chromium (Hexavalent)	na	< 0.50	0.78	< 0.50	< 0.50	< 0.50	< 0.50	0.68	< 0.50	< 0.50	< 0.50	0.54	< 0.50
Aliphatic VPH >C5-C6	304	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	na	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	na	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	144	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	78	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	na	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	48	2.1	4.9	4.9	< 2.0	2	9.1	11	8	11	12	< 2.0	< 2.0
Aliphatic EPH >C12-C16 MC	24	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.1	22	< 1.0	< 1.0	4.1	7.2	< 1.0
Aliphatic EPH >C16-C21 MC	na	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	25	66	< 2.0	4	4.6	35	11
Aliphatic EPH >C21-C35 MC	na	27	56	< 3.0	9.1	8.7	250	450	65	83	35	91	53
Aliphatic EPH >C35-C40 MC	na	14	18	< 10	12	16	60	89	22	48	17	22	< 10
Total Aliphatic EPH >C10-C35 MC	na	29	61	7	9.9	11	290	550	74	99	55	130	65
Total Aliphatic EPH >C10-C40 MC	na	43	80	< 10	22	27	350	640	96	150	73	150	65
Aromatic VPH >C5-C7	na	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	518	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	613	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	na	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	364	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.1	1.2	< 1.0	< 1.0	2.1	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	169	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.6	< 1.0	< 1.0
Aromatic EPH >C16-C21 MC	na	4.2	< 2.0	< 2.0	3.3	4.2	2.7	< 2.0	< 2.0	< 2.0	< 2.0	4.3	3.4
Aromatic EPH >C21-C35 MC	na	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	8.3	7.2	4.7	59	15
Aromatic EPH >C35-C40 MC	na	7.7	2	< 1.0	4.4	7	12	11	11	11	13	28	5.8
Total Aromatic EPH >C10-C35 MC	na	< 5.0	< 5.0	< 5.0	< 5.0	5.7	< 5.0	< 5.0	8.3	7.2	8.4	64	18
Total Aromatic EPH >C10-C40 MC	na	< 10	< 10	< 10	< 10	13	12	11	19	18	21	91	24
Total VPH >C5-C10	na	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	na	34	65	< 10	14	16	290	550	82	110	64	200	83
Total EPH >C10-C40 MC	na	56	85	< 10	30	40	360	650	120	160	94	250	89
Naphthalene	76	< 0.10	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	na	< 0.10	-	-	-	-	-	-	-	-	-	-	-
Acenaphthene	na	< 0.10	-	-	-	-	-	-	-	-	-	-	-
Fluorene	31	< 0.10	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	na	< 0.10	-	-	-	-	-	-	-	-	-	-	-
Anthracene	na	< 0.10	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	na	< 0.10	-	-	-	-	-	-	-	-	-	-	-
Pyrene	na	< 0.10	-	-	-	-	-	-	-	-	-	-	-
Benzoanthracene	na	< 0.10	-	-	-	-	-	-	-	-	-	-	-
Chrysene	na	< 0.10	-	-	-	-	-	-	-	-	-	-	-
Benzofluoranthene	na	< 0.10	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	na	< 0.10	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	na	< 0.10	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-c,d)Pyrene	na	< 0.10	-	-	-	-	-	-	-	-	-	-	-
Dibenz(a,h)Anthracene	na	< 0.10	-	-	-	-	-	-	-	-	-	-	-
Benzo[g,h,i]perylene	na	< 0.10	-	-	-	-	-	-	-	-	-	-	-
Total Of 16 PAH's	na	< 2.0	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane	na	-	-	-	-	-	-	-	-	-	-	-	-
Chloromethane	na	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	na	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane	na	-	-	-	-	-	-	-	-	-	-	-	-
Chloroethane	na	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane	na	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	na	-	-	-	-	-	-	-	-	-	-	-	-
Dichloromethane	na	-	-	-	-	-	-	-	-	-	-	-	-
Trans 1,2-Dichloroethene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	na	-	-	-	-	-	-	-	-	-	-	-	-
cis 1,2-Dichloroethene	na	-	-	-	-	-	-	-	-	-	-	-	-
Bromochloromethane	na	-	-	-	-	-	-	-	-	-	-	-	-
Trichloromethane	na	-	-	-	-	-	-	-	-	-	-	-	-
1,1,1-Trichloroethane	na	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloromethane	na	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloropropene	na	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	na	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	na	-	-	-	-	-	-	-	-	-	-	-	-
Dibromomethane	na	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	na	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	na	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	869	-	-	-	-	-	-	-	-	-	-	-	-
Trans-1,3-Dichloropropene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	na	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichloropropane	na	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	na	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromoethane	na	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,1,1,2-Tetrachloroethane	na	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	518	-	-	-	-	-	-	-	-	-	-	-	-
m & p-Xylene	na	-	-	-	-	-	-	-	-	-	-	-	-
o-Xylene	na	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	na	-	-	-	-	-	-	-	-	-	-	-	-
Tribromomethane	na	-	-	-	-	-	-	-	-	-	-	-	-
Isopropylbenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
Bromobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3-Trichloropropane	na	-	-	-	-	-	-	-	-	-	-	-	-
N-Propylbenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
2-Chlorotoluene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,3,5-Trimethylbenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
4-Chlorotoluene	na	-	-	-	-	-	-	-	-	-	-	-	-
Tert-Butylbenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trimethylbenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
Sec-Butylbenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
4-Isopropyltoluene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
N-Butylbenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromo-3-Chloropropane	na	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3-Trichlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Tert-Butyl Ether	na	-	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodimethylamine	na	-	-	-	-	-	-	-	-	-	-	-	-
Phenol	na	-	-	-	-	-	-	-	-	-	-	-	-
2-Chlorophenol	na	-	-	-	-	-	-	-	-	-	-	-	-
Bis-(2-Chloroethyl)Ether	na	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-

1,2-Dichlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
2-Methylphenol	na	-	-	-	-	-	-	-	-	-	-	-	-
Bis(2-Chloroisopropyl)Ether	na	-	-	-	-	-	-	-	-	-	-	-	-
Hexachloroethane	8	-	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	na	-	-	-	-	-	-	-	-	-	-	-	-
4-Methylphenol	na	-	-	-	-	-	-	-	-	-	-	-	-
Nitrobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
Isophorone	na	-	-	-	-	-	-	-	-	-	-	-	-
2-Nitrophenol	na	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	na	-	-	-	-	-	-	-	-	-	-	-	-
Bis(2-Chloroethoxy)Methane	na	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	na	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	76	-	-	-	-	-	-	-	-	-	-	-	-
4-Chloroaniline	na	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	na	-	-	-	-	-	-	-	-	-	-	-	-
4-Chloro-3-Methylphenol	na	-	-	-	-	-	-	-	-	-	-	-	-
2-Methylnaphthalene	na	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	na	-	-	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	na	-	-	-	-	-	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	na	-	-	-	-	-	-	-	-	-	-	-	-
2-Chloronaphthalene	114	-	-	-	-	-	-	-	-	-	-	-	-
2-Nitroaniline	na	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	na	-	-	-	-	-	-	-	-	-	-	-	-
Dimethylphthalate	na	-	-	-	-	-	-	-	-	-	-	-	-
2,6-Dinitrotoluene	na	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthene	na	-	-	-	-	-	-	-	-	-	-	-	-
3-Nitroaniline	na	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	na	-	-	-	-	-	-	-	-	-	-	-	-
4-Chlorophenylphenylether	na	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrotoluene	na	-	-	-	-	-	-	-	-	-	-	-	-
Fluorene	31	-	-	-	-	-	-	-	-	-	-	-	-
Diethyl Phthalate	na	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitroaniline	na	-	-	-	-	-	-	-	-	-	-	-	-
Azobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
4-Bromophenylphenyl Ether	na	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	na	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene	na	-	-	-	-	-	-	-	-	-	-	-	-
Carbazole	na	-	-	-	-	-	-	-	-	-	-	-	-
Di-N-Butyl Phthalate	na	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	na	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene	na	-	-	-	-	-	-	-	-	-	-	-	-
Butylbenzyl Phthalate	na	-	-	-	-	-	-	-	-	-	-	-	-
Benzoanthracene	na	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	na	-	-	-	-	-	-	-	-	-	-	-	-
Bis(2-Ethylhexyl)Phthalate	na	-	-	-	-	-	-	-	-	-	-	-	-
Di-N-Octyl Phthalate	na	-	-	-	-	-	-	-	-	-	-	-	-
Benzofluoranthene	na	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	na	-	-	-	-	-	-	-	-	-	-	-	-
Benzopyrene	na	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-c,d)Pyrene	na	-	-	-	-	-	-	-	-	-	-	-	-
Dibenz(a,h)Anthracene	na	-	-	-	-	-	-	-	-	-	-	-	-
Benzo[g,h,i]perylene	na	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	76	-	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.14	0.26
Acenaphthylene	na	-	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	na	-	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	31	-	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	na	-	< 0.10	1.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.26	< 0.10	0.94	0.56
Anthracene	na	-	< 0.10	0.49	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.14	0.14
Fluoranthene	na	-	< 0.10	1.2	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.42	< 0.10	0.82	1.2
Pyrene	na	-	< 0.10	1.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.36	< 0.10	0.49	1.2
Benzoanthracene	na	-	< 0.10	0.73	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	1
Chrysene	na	-	< 0.10	0.63	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.98
Benzofluoranthene	na	-	< 0.10	0.76	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	1.3
Benzo(k)fluoranthene	na	-	< 0.10	0.55	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.87
Benzopyrene	na	-	< 0.10	0.71	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	1.1
Indeno(1,2,3-c,d)Pyrene	na	-	< 0.10	0.67	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	1
Dibenz(a,h)Anthracene	na	-	< 0.10	0.49	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.53
Benzo[g,h,i]perylene	na	-	< 0.10	0.62	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.94
Total Of 16 PAH's	na	-	< 2.0	9.1	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	2.5	11

Notes:

LMDL Laboratory method detection limit

< Result less than the LMDL

GAC Generic assessment criteria

- COPC not analysed

Measured concentration in excess of Tier 1 value

Comparison of tier 1 values against measured concentrations in soil

RSK GEOSCIENCES

COPC	Chemtest Job No.	24-24075	24-24075	24-24075	24-24075	24-24075	24-24075	24-24075	24-25386	24-25386	24-25386	24-25641	24-25641
	Chemtest Sample ID	1842402	1842403	1842404	1842405	1842406	1842407	1842408	1848064	1848065	1848066	1849334	1849335
	Client sample ref.	ES1	ES2	ES3	ES2	ES3	ES4	ES5					
	Sample location	BH304	BH304	BH304	BH315	BH315	BH315	BH315	TP302	TP303	TP387	TP391	TP391
	Top depth (m)	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top depth (m)	0.5	1.0	2.5	2.0	3.0	4.0	5.0	0.50	1.50	0.50	0.50	1.50
	Depth to bottom (m)												
	Date sampled	25/07/2024	25/07/2024	25/07/2024	25/07/2024	25/07/2024	25/07/2024	25/07/2024					
	RSK Commercial Tier 1 values (mg/kg)												
ACM Type	na	Fibres/Clumps	-	-	-	-	-	-	-	-	-	-	-
Asbestos Identification	na	Amosite Chrysotile	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Asbestos by Gravimetry	na	0.002											
Total Asbestos	na	0.002											
Moisture	na	4.8	17	19	13	16	19	19	8.1	8.3	8.8	5.9	7.1
Soil Colour	na	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material	na	Stones	None	None	Stones	Stones	None	None	Stones and Roots	Stones	Stones	Stones and Roots	Stones
Soil Texture	na	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Loam	Loam
pH at 20C	na	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	na	9.4	7.6	7.6	92	15	32	12	9.7	4	13	0.9	< 0.5
Cadmium	na	0.38	< 0.10	< 0.10	0.28	< 0.10	< 0.10	0.11	< 0.10	< 0.10	0.11	< 0.10	< 0.10
Chromium	na	2500	4.2	14	19	2.3	9.2	5.8	4000	5900	800	880	540
Copper	na	58	1.5	3.6	470	38	230	22	160	64	55	300	36
Mercury	na	0.1	< 0.05	< 0.05	0.16	< 0.05	0.05	< 0.05	0.1	0.13	0.26	0.09	0.07
Nickel	na	26	3.3	4	47	3.4	11	6.1	50	20	73	84	16
Lead	na	70	2.9	4.6	72	23	27	12	22	20	96	60	42
Selenium	na	0.92	< 0.25	< 0.25	0.79	< 0.25	< 0.25	0.42	0.52	0.5	0.35	< 0.25	< 0.25
Zinc	na	340	13	22	120	42	50	29	77	50	440	1600	260
Chromium (Hexavalent)	na	3.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1	0.6	< 0.50	2.2	2.2
Aliphatic VPH >C5-C6	304	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	na	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	na	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	144	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	78	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	na	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	48	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	6.4	< 2.0	< 2.0	< 2.0	< 2.0
Aliphatic EPH >C12-C16 MC	24	< 1.0	< 1.0	< 1.0	< 1.0	13	1.1	2.2	210	< 1.0	< 1.0	17	19
Aliphatic EPH >C16-C21 MC	na	2.6	< 2.0	< 2.0	< 2.0	36	4.9	8.6	420	< 2.0	5.3	120	110
Aliphatic EPH >C21-C35 MC	na	45	< 3.0	< 3.0	51	180	110	150	490	25	79	1100	970
Aliphatic EPH >C35-C40 MC	na	15	< 10	< 10	19	25	26	30	32	< 10	< 10	130	170
Total Aliphatic EPH >C10-C35 MC	na	49	< 5.0	< 5.0	51	230	120	160	1100	26	84	1300	1100
Total Aliphatic EPH >C10-C40 MC	na	63	< 10	< 10	70	250	150	190	1200	26	84	1400	1300
Aromatic VPH >C5-C7	na	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	518	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	613	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	na	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	364	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2.4	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	169	< 1.0	< 1.0	< 1.0	1.1	19	2.6	3.9	35	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C16-C21 MC	na	< 2.0	< 2.0	< 2.0	< 2.0	23	4.9	6.7	30	5.7	4.3	4.2	4.4
Aromatic EPH >C21-C35 MC	na	12	< 2.0	< 2.0	< 2.0	40	2.5	6.4	4.2	< 2.0	< 2.0	3	4.8
Aromatic EPH >C35-C40 MC	na	17	1.3	< 1.0	1.8	68	1.7	< 1.0	< 1.0	< 1.0	< 1.0	6	9.7
Total Aromatic EPH >C10-C35 MC	na	13	< 5.0	< 5.0	< 5.0	82	10	17	71	6.5	5	7.2	9.6
Total Aromatic EPH >C10-C40 MC	na	30	< 10	< 10	< 10	150	12	17	71	< 10	< 10	13	19
Total VPH >C5-C10	na	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	na	61	< 10	< 10	54	310	130	180	1200	33	89	1300	1100
Total EPH >C10-C40 MC	na	93	< 10	< 10	75	400	160	210	1200	33	89	1400	1300
Naphthalene	76	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	na	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthene	na	-	-	-	-	-	-	-	-	-	-	-	-
Fluorene	31	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	na	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene	na	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	na	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene	na	-	-	-	-	-	-	-	-	-	-	-	-
Benzoanthracene	na	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	na	-	-	-	-	-	-	-	-	-	-	-	-
Benzofluoranthene	na	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	na	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	na	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-c,d)Pyrene	na	-	-	-	-	-	-	-	-	-	-	-	-
Dibenz(a,h)Anthracene	na	-	-	-	-	-	-	-	-	-	-	-	-
Benzo[g,h,i]perylene	na	-	-	-	-	-	-	-	-	-	-	-	-
Total Of 16 PAH's	na	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane	na	-	-	-	-	-	-	-	-	-	-	-	-
Chloromethane	na	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	na	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane	na	-	-	-	-	-	-	-	-	-	-	-	-
Chloroethane	na	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane	na	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	na	-	-	-	-	-	-	-	-	-	-	-	-
Dichloromethane	na	-	-	-	-	-	-	-	-	-	-	-	-
Trans 1,2-Dichloroethene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	na	-	-	-	-	-	-	-	-	-	-	-	-
cis 1,2-Dichloroethene	na	-	-	-	-	-	-	-	-	-	-	-	-
Bromochloromethane	na	-	-	-	-	-	-	-	-	-	-	-	-
Trichloromethane	na	-	-	-	-	-	-	-	-	-	-	-	-
1,1,1-Trichloroethane	na	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloromethane	na	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloropropene	na	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	na	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	na	-	-	-	-	-	-	-	-	-	-	-	-
Dibromomethane	na	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	na	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	na	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	869	-	-	-	-	-	-	-	-	-	-	-	-
Trans-1,3-Dichloropropene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	na	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichloropropane	na	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	na	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromoethane	na	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,1,1,2-Tetrachloroethane	na	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	518	-	-	-	-	-	-	-	-	-	-	-	-
m & p-Xylene	na	-	-	-	-	-	-	-	-	-	-	-	-
o-Xylene	na	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	na	-	-	-	-	-	-	-	-	-	-	-	-
Tribromomethane	na	-	-	-	-	-	-	-	-	-	-	-	-
Isopropylbenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
Bromobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3-Trichloropropane	na	-	-	-	-	-	-	-	-	-	-	-	-
N-Propylbenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
2-Chlorotoluene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,3,5-Trimethylbenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
4-Chlorotoluene	na	-	-	-	-	-	-	-	-	-	-	-	-
Tert-Butylbenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trimethylbenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
Sec-Butylbenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
4-Isopropyltoluene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
N-Butylbenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromo-3-Chloropropane	na	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3-Trichlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Tert-Butyl Ether	na	-	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodimethylamine	na	-	-	-	-	-	-	-	-	-	-	-	-
Phenol	na	-	-	-	-	-	-	-	-	-	-	-	-
2-Chlorophenol	na	-	-	-	-	-	-	-	-	-	-	-	-
Bis-(2-Chloroethyl)Ether	na	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-

1,2-Dichlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
2-Methylphenol	na	-	-	-	-	-	-	-	-	-	-	-	-
Bis(2-Chloroisopropyl)Ether	na	-	-	-	-	-	-	-	-	-	-	-	-
Hexachloroethane	8	-	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	na	-	-	-	-	-	-	-	-	-	-	-	-
4-Methylphenol	na	-	-	-	-	-	-	-	-	-	-	-	-
Nitrobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
Isophorone	na	-	-	-	-	-	-	-	-	-	-	-	-
2-Nitrophenol	na	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	na	-	-	-	-	-	-	-	-	-	-	-	-
Bis(2-Chloroethoxy)Methane	na	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	na	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	76	-	-	-	-	-	-	-	-	-	-	-	-
4-Chloroaniline	na	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	na	-	-	-	-	-	-	-	-	-	-	-	-
4-Chloro-3-Methylphenol	na	-	-	-	-	-	-	-	-	-	-	-	-
2-Methylnaphthalene	na	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	na	-	-	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	na	-	-	-	-	-	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	na	-	-	-	-	-	-	-	-	-	-	-	-
2-Chloronaphthalene	114	-	-	-	-	-	-	-	-	-	-	-	-
2-Nitroaniline	na	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	na	-	-	-	-	-	-	-	-	-	-	-	-
Dimethylphthalate	na	-	-	-	-	-	-	-	-	-	-	-	-
2,6-Dinitrotoluene	na	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthene	na	-	-	-	-	-	-	-	-	-	-	-	-
3-Nitroaniline	na	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	na	-	-	-	-	-	-	-	-	-	-	-	-
4-Chlorophenylphenylether	na	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrotoluene	na	-	-	-	-	-	-	-	-	-	-	-	-
Fluorene	31	-	-	-	-	-	-	-	-	-	-	-	-
Diethyl Phthalate	na	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitroaniline	na	-	-	-	-	-	-	-	-	-	-	-	-
Azobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
4-Bromophenylphenyl Ether	na	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobenzene	na	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	na	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene	na	-	-	-	-	-	-	-	-	-	-	-	-
Carbazole	na	-	-	-	-	-	-	-	-	-	-	-	-
Di-N-Butyl Phthalate	na	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	na	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene	na	-	-	-	-	-	-	-	-	-	-	-	-
Butylbenzyl Phthalate	na	-	-	-	-	-	-	-	-	-	-	-	-
Benzoanthracene	na	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	na	-	-	-	-	-	-	-	-	-	-	-	-
Bis(2-Ethylhexyl)Phthalate	na	-	-	-	-	-	-	-	-	-	-	-	-
Di-N-Octyl Phthalate	na	-	-	-	-	-	-	-	-	-	-	-	-
Benzofluoranthene	na	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	na	-	-	-	-	-	-	-	-	-	-	-	-
Benzopyrene	na	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-c,d)Pyrene	na	-	-	-	-	-	-	-	-	-	-	-	-
Dibenz(a,h)Anthracene	na	-	-	-	-	-	-	-	-	-	-	-	-
Benzo[g,h,i]perylene	na	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	76	0.12	< 0.10	< 0.10	0.78	1.4	0.73	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	na	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	na	< 0.10	< 0.10	< 0.10	< 0.10	0.32	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	31	< 0.10	< 0.10	< 0.10	< 0.10	0.4	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	na	0.54	< 0.10	< 0.10	1.1	1.2	0.45	< 0.10	< 0.10	< 0.10	0.48	0.93	0.76
Anthracene	na	0.27	< 0.10	< 0.10	0.21	0.21	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.19	0.16
Fluoranthene	na	1.6	< 0.10	< 0.10	1.2	0.76	0.38	0.22	< 0.10	< 0.10	0.41	1.1	1.8
Pyrene	na	1.5	< 0.10	< 0.10	0.85	0.53	0.26	0.2	< 0.10	< 0.10	0.3	0.93	1.7
Benzoanthracene	na	1.8	< 0.10	< 0.10	0.72	0.46	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	1
Chrysene	na	1.4	< 0.10	< 0.10	0.58	0.5	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	1.7
Benzofluoranthene	na	2.1	< 0.10	< 0.10	1.1	0.55	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	2.6
Benzo(k)fluoranthene	na	1.6	< 0.10	< 0.10	0.4	0.24	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.95
Benzopyrene	na	1.6	< 0.10	< 0.10	0.78	0.36	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	1.4
Indeno(1,2,3-c,d)Pyrene	na	1.8	< 0.10	< 0.10	0.49	0.27	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	1.3
Dibenz(a,h)Anthracene	na	1.3	< 0.10	< 0.10	0.15	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	na	1.7	< 0.10	< 0.10	0.41	0.3	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	1.6
Total Of 16 PAH's	na	17	< 2.0	< 2.0	8.8	7.5	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	3.2	15

Notes:

LMDL Laboratory method detection limit

< Result less than the LMDL

GAC Generic assessment criteria

- COPC not analysed

Measured concentration in excess of Tier 1 value

Comparison of tier 1 values against measured concentrations in soil

RSK GEOSCIENCES

COPC	Chemtest Job No.	24-25641	24-25641	24-25641	24-25641	24-25641	24-25899	24-25899	24-25899	24-25899	24-25899	24-25899	24-26534
	Chemtest Sample ID	1849337	1849340	1849341	1849343	1849345	1850277	1850280	1850285	1850287	1850290	1850293	1852980
	Client sample ref.												1
	Sample location	TP345	TP392	TP392	TP393	TP393	TP309	TP311	TP325	TP342	TP342	TP388	BH326
	Top depth (m)	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top depth (m)	0.50	0.50	2.00	0.50	3.00	0.4	0.5	2.0	0.5	3.0	2.5	4.5
	Depth to bottom (m)												5.5
	Date sampled												15/08/2024
	RSK Commercial Tier 1 values (mg/kg)												
ACM Type	na	-	-	-	-	-	-	-	-	-	-	-	-
Asbestos Identification	na	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Asbestos by Gravimetry	na												
Total Asbestos	na												
Moisture	na	3.1	5.8	14	16	22	6.1	4	7.2	11	7.2	6.5	69
Soil Colour	na	Brown	Brown	Brown	Brown	Brown	Black	Black	Black	Black	Black	Black	Black
Other Material	na	Stones	Stones	Stones	Stones and Roots	Stones	Stones	Stones	Stones	Stones	Stones	Stones	None
Soil Texture	na	Loam	Loam	Clay	Clay	Clay	Sand	Sand	Sand	Sand	Sand	Sand	Sand
pH at 20C	na	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	na	1.5	28	6.7	4.9	1.7	3.4	3	5.4	5.4	32	10	22
Cadmium	na	< 0.10	4.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.72	< 0.10	1.7
Chromium	na	2000	2100	100	76	25	1300	530	1100	1100	4800	1700	250
Copper	na	160	160	22	11	4.5	43	200	28	34	200	65	130
Mercury	na	0.75	0.31	0.06	< 0.05	< 0.05	0.09	0.11	0.05	0.05	0.26	0.1	0.15
Nickel	na	77	95	17	21	9.1	38	58	43	36	110	35	59
Lead	na	360	690	50	16	10	26	280	25	29	190	110	210
Selenium	na	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	2.2
Zinc	na	650	1600	150	77	38	260	1200	160	280	350	210	930
Chromium (Hexavalent)	na	< 0.50	1	< 0.50	< 0.50	< 0.50	0.58	0.64	< 0.50	2.6	0.76	0.59	< 0.50
Aliphatic VPH >C5-C6	304	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	na	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	na	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	144	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	78	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	1.5
Total Aliphatic VPH >C5-C10	na	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	1.5
Aliphatic EPH >C10-C12 MC	48	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	3.4	2.1	9.7	77
Aliphatic EPH >C12-C16 MC	24	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	12	< 1.0	76	830
Aliphatic EPH >C16-C21 MC	na	44	27	< 2.0	2.7	3.7	3.2	< 2.0	4	89	13	130	11000
Aliphatic EPH >C21-C35 MC	na	400	340	< 3.0	5.3	9.3	300	26	140	770	62	430	90000
Aliphatic EPH >C35-C40 MC	na	63	50	< 10	< 10	< 10	56	< 10	58	120	21	74	13000
Total Aliphatic EPH >C10-C35 MC	na	450	370	< 5.0	8	13	310	27	150	880	77	640	100000
Total Aliphatic EPH >C10-C40 MC	na	510	420	< 10	< 10	13	360	27	200	990	98	720	110000
Aromatic VPH >C5-C7	na	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.61
Aromatic VPH >C7-C8	518	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	613	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	na	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	0.61
Aromatic EPH >C10-C12 MC	364	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	169	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	7.9	140
Aromatic EPH >C16-C21 MC	na	8.4	3.4	4.2	6.3	5.1	3.3	3.6	3.8	5.1	4	6.2	3100
Aromatic EPH >C21-C35 MC	na	2.5	< 2.0	< 2.0	9.8	10	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	43
Aromatic EPH >C35-C40 MC	na	1.6	1.2	< 1.0	5.8	6.3	1.5	< 1.0	1.1	4.7	< 1.0	2.2	4700
Total Aromatic EPH >C10-C35 MC	na	11	< 5.0	< 5.0	16	15	< 5.0	< 5.0	< 5.0	5.1	< 5.0	14	3200
Total Aromatic EPH >C10-C40 MC	na	13	< 10	< 10	22	21	< 10	< 10	< 10	< 10	< 10	16	8000
Total VPH >C5-C10	na	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	2.1
Total EPH >C10-C35 MC	na	460	370	< 10	24	28	310	31	150	880	81	660	100000
Total EPH >C10-C40 MC	na	520	430	< 10	30	34	370	31	210	1000	100	730	120000
Naphthalene	76	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	na	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthene	na	-	-	-	-	-	-	-	-	-	-	-	-
Fluorene	31	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	na	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene	na	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	na	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene	na	-	-	-	-	-	-	-	-	-	-	-	-
Benzoanthracene	na	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	na	-	-	-	-	-	-	-	-	-	-	-	-
Benzofluoranthene	na	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	na	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	na	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-c,d)Pyrene	na	-	-	-	-	-	-	-	-	-	-	-	-
Dibenz(a,h)Anthracene	na	-	-	-	-	-	-	-	-	-	-	-	-
Benzo[g,h,i]perylene	na	-	-	-	-	-	-	-	-	-	-	-	-
Total Of 16 PAH's	na	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane	na	-	-	-	-	-	< 1.0	< 1.0	-	-	-	< 1.0	< 1.0
Chloromethane	na	-	-	-	-	-	< 1.0	< 1.0	-	-	-	< 1.0	< 1.0
Vinyl Chloride	na	-	-	-	-	-	< 1.0	< 1.0	-	-	-	< 1.0	< 1.0
Bromomethane	na	-	-	-	-	-	< 20	< 20	-	-	-	< 20	< 20
Chloroethane	na	-	-	-	-	-	< 2.0	< 2.0	-	-	-	< 2.0	< 2.0
Trichlorofluoromethane	na	-	-	-	-	-	< 1.0	< 1.0	-	-	-	< 1.0	< 1.0
1,1-Dichloroethene	na	-	-	-	-	-	< 1.0	< 1.0	-	-	-	< 1.0	< 1.0
Dichloromethane	na	-	-	-	-	-	< 50	< 50	-	-	-	< 50	< 50
Trans 1,2-Dichloroethene	na	-	-	-	-	-	< 1.0	< 1.0	-	-	-	< 1.0	< 1.0
1,1-Dichloroethane	na	-	-	-	-	-	< 1.0	< 1.0	-	-	-	< 1.0	< 1.0
cis 1,2-Dichloroethene	na	-	-	-	-	-	< 1.0	< 1.0	-	-	-	< 1.0	< 1.0
Bromochloromethane	na	-	-	-	-	-	< 5.0	< 5.0	-	-	-	< 5.0	< 5.0
Trichloromethane	na	-	-	-	-	-	< 1.0	< 1.0	-	-	-	< 1.0	< 1.0
1,1,1-Trichloroethane	na	-	-	-	-	-	< 1.0	< 1.0	-	-	-	< 1.0	< 1.0
Tetrachloromethane	na	-	-	-	-	-	< 1.0	< 1.0	-	-	-	< 1.0	< 1.0
1,1-Dichloropropene	na	-	-	-	-	-	< 1.0	< 1.0	-	-	-	< 1.0	< 1.0
Benzene	na	-	-	-	-	-	< 1.0	< 1.0	-	-	-	< 1.0	< 1.0
1,2-Dichloroethane	na	-	-	-	-	-	< 2.0	< 2.0	-	-	-	< 2.0	< 2.0
Trichloroethene	na	-	-	-	-	-	< 1.0	< 1.0	-	-	-	< 1.0	< 1.0
1,2-Dichloropropane	na	-	-	-	-	-	< 1.0	< 1.0	-	-	-	< 1.0	< 1.0
Dibromomethane	na	-	-	-	-	-	< 1.0	< 1.0	-	-	-	< 1.0	< 1.0
Bromodichloromethane	na	-	-	-	-	-	< 5.0	< 5.0	-	-	-	< 5.0	< 5.0
cis-1,3-Dichloropropene	na	-	-	-	-	-	< 10	< 10	-	-	-	< 10	< 10
Toluene	869	-	-	-	-	-	< 1.0	< 1.0	-	-	-	< 1.0	12
Trans-1,3-Dichloropropene	na	-	-	-	-	-	< 10	< 10	-	-	-	< 10	< 10
1,1,2-Trichloroethane	na	-	-	-	-	-	< 10	< 10	-	-	-	< 10	< 10
Tetrachloroethene	na	-	-	-	-	-	< 1.0	< 1.0	-	-	-	< 1.0	< 1.0
1,3-Dichloropropane	na	-	-	-	-	-	< 2.0	< 2.0	-	-	-	< 2.0	< 2.0
Dibromochloromethane	na	-	-	-	-	-	< 10	< 10	-	-	-	< 10	< 10
1,2-Dibromoethane	na	-	-	-	-	-	< 5.0	< 5.0	-	-	-	< 5.0	< 5.0
Chlorobenzene	na	-	-	-	-	-	< 1.0	< 1.0	-	-	-	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane	na	-	-	-	-	-	< 2.0	< 2.0	-	-	-	< 2.0	< 2.0
Ethylbenzene	518	-	-	-	-	-	< 1.0	< 1.0	-	-	-	< 1.0	< 1.0
m & p-Xylene	na	-	-	-	-	-	< 1.0	< 1.0	-	-	-	< 1.0	43
o-Xylene	na	-	-	-	-	-	< 1.0	< 1.0	-	-	-	< 1.0	74
Styrene	na	-	-	-	-	-	< 1.0	< 1.0	-	-	-	< 1.0	< 1.0
Tribromomethane	na	-	-	-	-	-	< 1.0	< 1.0	-	-	-	< 1.0	< 1.0
Isopropylbenzene	na	-	-	-	-	-	< 1.0	< 1.0	-	-	-	< 1.0	< 1.0
Bromobenzene	na	-	-	-	-	-	< 1.0	< 1.0	-	-	-	< 1.0	< 1.0
1,2,3-Trichloropropane	na	-	-	-	-	-	< 50	< 50	-	-	-	< 50	< 50
N-Propylbenzene	na	-	-	-	-	-	< 1.0	< 1.0	-	-	-	< 1.0	< 1.0
2-Chlorotoluene	na	-	-	-	-	-	< 1.0	< 1.0	-	-	-	< 1.0	< 1.0
1,3,5-Trimethylbenzene	na	-	-	-	-	-	< 1.0	< 1.0	-	-	-	1.9	< 1.0
4-Chlorotoluene	na	-	-	-	-	-	< 1.0	< 1.0	-	-	-	< 1.0	< 1.0
Tert-Butylbenzene	na	-	-	-	-	-	< 1.0	< 1.0	-	-	-	< 1.0	< 1.0
1,2,4-Trimethylbenzene	na	-	-	-	-	-	< 1.0	< 1.0	-	-	-	4.7	< 1.0
Sec-Butylbenzene	na	-	-	-	-	-	< 1.0	< 1.0	-	-	-	< 1.0	< 1.0
1,3-Dichlorobenzene	na	-	-	-	-	-	< 1.0	< 1.0	-	-	-	< 1.0	< 1.0
4-Isopropyltoluene	na	-	-	-	-	-	< 1.0	< 1.0	-	-	-	< 1.0	< 1.0
1,4-Dichlorobenzene	na	-	-	-	-	-	< 1.0	< 1.0	-	-	-	< 1.0	< 1.0
N-Butylbenzene	na	-	-	-	-	-	< 1.0	< 1.0	-	-	-	< 1.0	< 1.0
1,2-Dichlorobenzene	na	-	-	-	-	-	< 1.0	< 1.0	-	-	-	< 1.0	< 1.0
1,2-Dibromo-3-Chloropropane	na	-	-	-	-	-	< 50	< 50	-	-	-	< 50	< 50
1,2,4-Trichlorobenzene	na	-	-	-	-	-	< 1.0	< 1.0	-	-	-	< 1.0	< 1.0
Hexachlorobutadiene	na	-	-	-	-	-	< 1.0	< 1.0	-	-	-	< 1.0	< 1.0
1,2,3-Trichlorobenzene	na	-	-	-	-	-	< 2.0	< 2.0	-	-	-	< 2.0	< 2.0
Methyl Tert-Butyl Ether	na	-	-	-	-	-	< 1.0	< 1.0	-	-	-	< 1.0	< 1.0
N-Nitrosodimethylamine	na	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50
Phenol	na	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50
2-Chlorophenol	na	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50
Bis-(2-Chloroethyl)Ether	na	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50
1,3-Dichlorobenzene	na	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50
1,4-Dichlorobenzene	na	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50

1,2-Dichlorobenzene	na	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50
2-Methylphenol	na	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50
Bis(2-Chloroisopropyl)Ether	na	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50
Hexachloroethane	8	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50
N-Nitrosodi-n-propylamine	na	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50
4-Methylphenol	na	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50
Nitrobenzene	na	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50
Isophorone	na	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50
2-Nitrophenol	na	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50
2,4-Dimethylphenol	na	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50
Bis(2-Chloroethoxy)Methane	na	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50
2,4-Dichlorophenol	na	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50
1,2,4-Trichlorobenzene	na	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50
Naphthalene	76	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50
4-Chloroaniline	na	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50
Hexachlorobutadiene	na	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50
4-Chloro-3-Methylphenol	na	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50
2-Methylnaphthalene	na	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50
4-Nitrophenol	na	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50
2,4,6-Trichlorophenol	na	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50
2,4,5-Trichlorophenol	na	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50
2-Chloronaphthalene	114	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50
2-Nitroaniline	na	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50
Acenaphthylene	na	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50
Dimethylphthalate	na	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50
2,6-Dinitrotoluene	na	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50
Acenaphthene	na	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50
3-Nitroaniline	na	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50
Dibenzofuran	na	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50
4-Chlorophenylphenylether	na	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50
2,4-Dinitrotoluene	na	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50
Fluorene	31	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50
Diethyl Phthalate	na	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50
4-Nitroaniline	na	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50
Azobenzene	na	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50
4-Bromophenylphenyl Ether	na	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50
Hexachlorobenzene	na	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50
Phenanthrene	na	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	1.7
Anthracene	na	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50
Carbazole	na	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50
Di-N-Butyl Phthalate	na	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50
Fluoranthene	na	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	3.4
Pyrene	na	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	5.8
Butylbenzyl Phthalate	na	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50
Benzoanthracene	na	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	1.9
Chrysene	na	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	4.9
Bis(2-Ethylhexyl)Phthalate	na	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	2.2
Di-N-Octyl Phthalate	na	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	2.1
Benzofluoranthene	na	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	3.3
Benzo(k)fluoranthene	na	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50
Benzopyrene	na	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	1.8
Indeno(1,2,3-c,d)Pyrene	na	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50
Dibenz(a,h)Anthracene	na	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50
Benzo[g,h,i]perylene	na	-	-	-	-	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50
Naphthalene	76	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	na	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	na	0.49	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	31	0.44	< 0.10	< 0.10	< 0.10	< 0.10	0.13	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	na	2.5	0.64	< 0.10	< 0.10	< 0.10	0.79	< 0.10	< 0.10	< 0.10	0.19	0.32	< 0.10
Anthracene	na	0.36	< 0.10	< 0.10	< 0.10	< 0.10	0.63	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	na	1.7	0.95	< 0.10	< 0.10	< 0.10	2.4	< 0.10	< 0.10	< 0.10	0.4	0.48	< 0.10
Pyrene	na	1.3	0.81	< 0.10	< 0.10	< 0.10	2.5	< 0.10	< 0.10	< 0.10	0.28	0.28	< 0.10
Benzoanthracene	na	< 0.10	0.41	< 0.10	< 0.10	< 0.10	3.4	< 0.10	< 0.10	< 0.10	0.15	< 0.10	< 0.10
Chrysene	na	< 0.10	0.6	< 0.10	< 0.10	< 0.10	3.6	< 0.10	< 0.10	< 0.10	0.18	< 0.10	< 0.10
Benzofluoranthene	na	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	4.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(k)fluoranthene	na	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	3.8	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzopyrene	na	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	3.8	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	na	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	4.2	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	na	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	3.9	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	na	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	3.9	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's	na	6.8	3.4	< 2.0	< 2.0	< 2.0	37	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0

Notes:

LMDL Laboratory method detection limit

< Result less than the LMDL

GAC Generic assessment criteria

- COPC not analysed

Measured concentration in excess of Tier 1 value

Comparison of tier 1 values against measured concentrations in soil

RSK GEOSCIENCES

COPC	Chemtest Job No.	24-26534	24-26534	24-26534	24-26534	24-26534	24-27128	24-27128	24-27128	24-27128	24-27793	24-27793	24-27793
	Chemtest Sample ID	1852981	1852982	1852984	1852987	1852991	1855529	1855532	1855534	1855536	1858447	1858448	1858450
	Client sample ref.	1	2	1	1	1					ES4	ES1	ES3
	Sample location	BH327	BH327	TP3001	TP399	TP397	TP376	TP375	TP374	TP341	BH305	BH303A	BH303A
	Top depth (m)	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top depth (m)	3.5	4.5	0.2	0.5	0.0	0.25	1.60	1.40	2.30	5.5	0.6	3.0
	Depth to bottom (m)	4.5	5.5										
	Date sampled	15/08/2024	15/08/2024	15/08/2024	15/08/2024	15/08/2024	19/08/2024	19/08/2024	19/08/2024	19/08/2024			
	RSK Commercial Tier 1 values (mg/kg)												
ACM Type	na	-	-	-	-	-	-	Fibres/Clumps	-	-	-	-	-
Asbestos Identification	na	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	Chrysotile	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Asbestos by Gravimetry	na							<0.001					
Total Asbestos	na							<0.001					
Moisture	na	71	16	7.3	18	14	6.3	25	19	24	17	9.6	15
Soil Colour	na	Black	Brown	Brown	Brown	Brown	Black	Black	Black	Black	Brown	Brown	Brown
Other Material	na	None	None	Stones	Stones	Stones and Roots	Stones and Roots	Stones and Roots	Stones	Stones	Stones	Stones	Stones
Soil Texture	na	Sand	Sand	Sand	Loam	Sand	Sand	Clay	Clay	Clay	Sand	Sand	Sand
pH at 20C	na	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	na	18	5.5	4.4	4.3	13	< 0.5	11	7.5	14	< 0.5	0.9	1.6
Cadmium	na	5.2	0.16	0.38	0.31	0.14	0.58	< 0.10	< 0.10	< 0.10	< 0.10	0.51	< 0.10
Chromium	na	440	9.6	140	33	95	70	48	30	51	15	1400	510
Copper	na	360	7.3	56	27	20	20	66	100	92	2.6	140	20
Mercury	na	0.22	< 0.05	0.05	0.37	0.08	0.2	0.13	0.09	0.15	< 0.05	0.08	< 0.05
Nickel	na	36	4	170	14	43	11	16	43	64	4.7	28	21
Lead	na	330	13	40	140	29	68	100	87	130	5.3	50	10
Selenium	na	1.1	< 0.25	0.69	0.33	1.7	1.1	1.8	1.6	2.4	< 0.25	0.77	0.57
Zinc	na	2100	140	210	190	100	390	29	45	52	17	190	74
Chromium (Hexavalent)	na	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Aliphatic VPH >C5-C6	304	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	na	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	na	0.35	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	144	0.35	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	78	2.7	0.17	< 0.05	< 0.05	< 0.05	< 0.05	0.17	0.27	0.21	< 0.05	< 0.05	0.14
Total Aliphatic VPH >C5-C10	na	3.1	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	0.27	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	48	290	13	12	33	78	< 2.0	76	120	230	2.6	3.5	< 2.0
Aliphatic EPH >C12-C16 MC	24	690	14	18	48	3800	7.1	360	410	720	3.9	12	20
Aliphatic EPH >C16-C21 MC	na	4000	170	23	120	3200	8.6	8300	1800	4700	14	44	26
Aliphatic EPH >C21-C35 MC	na	110000	2600	150	940	1300	32	44000	7100	21000	85	120	53
Aliphatic EPH >C35-C40 MC	na	20000	400	54	160	740	13	5500	1200	5100	14	37	16
Total Aliphatic EPH >C10-C35 MC	na	120000	2800	200	1100	8400	48	52000	9400	26000	110	180	100
Total Aliphatic EPH >C10-C40 MC	na	140000	3200	250	1300	9200	61	58000	11000	31000	120	220	120
Aromatic VPH >C5-C7	na	0.88	< 0.05	< 0.05	0.2	0.21	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	518	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	613	< 0.05	< 0.05	< 0.05	< 0.05	0.21	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	na	0.88	< 0.25	< 0.25	< 0.25	0.41	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	364	< 1.0	< 1.0	15	48	150000	< 1.0	73	95	120	1.2	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	169	170	1.5	3.1	140	29000	< 1.0	470	300	500	< 1.0	< 1.0	3.2
Aromatic EPH >C16-C21 MC	na	520	19	11	180	27000	5.2	1200	600	1500	3	< 2.0	20
Aromatic EPH >C21-C35 MC	na	350	2.2	3.5	100	13000	15	33	11	210	22	2.7	6.8
Aromatic EPH >C35-C40 MC	na	660	190	14	20	1400	12	110	260	150	190	7.5	7
Total Aromatic EPH >C10-C35 MC	na	1000	23	33	480	220000	20	1800	1000	2300	26	5.6	30
Total Aromatic EPH >C10-C40 MC	na	1700	210	46	500	220000	33	1900	1300	2400	220	13	37
Total VPH >C5-C10	na	4	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	na	120000	2900	230	1600	230000	68	54000	10000	29000	130	190	130
Total EPH >C10-C40 MC	na	140000	3500	300	1800	230000	93	60000	12000	34000	340	230	150
Naphthalene	76	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	na	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthene	na	-	-	-	-	-	-	-	-	-	-	-	-
Fluorene	31	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	na	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene	na	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	na	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene	na	-	-	-	-	-	-	-	-	-	-	-	-
Benzoanthracene	na	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	na	-	-	-	-	-	-	-	-	-	-	-	-
Benzofluoranthene	na	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	na	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	na	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-c,d)Pyrene	na	-	-	-	-	-	-	-	-	-	-	-	-
Dibenz(a,h)Anthracene	na	-	-	-	-	-	-	-	-	-	-	-	-
Benzo[g,h,i]perylene	na	-	-	-	-	-	-	-	-	-	-	-	-
Total Of 16 PAH's	na	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane	na	< 1.0	< 1.0	-	-	< 1.0	< 1.0	-	-	-	< 1.0	-	-
Chloromethane	na	< 1.0	< 1.0	-	-	< 1.0	< 1.0	-	-	-	< 1.0	-	-
Vinyl Chloride	na	< 1.0	< 1.0	-	-	< 1.0	< 1.0	-	-	-	< 1.0	-	-
Bromomethane	na	< 20	< 20	-	-	< 20	< 20	-	-	-	< 20	-	-
Chloroethane	na	< 2.0	< 2.0	-	-	< 2.0	< 2.0	-	-	-	< 2.0	-	-
Trichlorofluoromethane	na	< 1.0	< 1.0	-	-	< 1.0	< 1.0	-	-	-	< 1.0	-	-
1,1-Dichloroethene	na	< 1.0	< 1.0	-	-	< 1.0	< 1.0	-	-	-	< 1.0	-	-
Dichloromethane	na	< 50	< 50	-	-	< 50	< 50	-	-	-	< 50	-	-
Trans 1,2-Dichloroethene	na	< 1.0	< 1.0	-	-	< 1.0	< 1.0	-	-	-	< 1.0	-	-
1,1-Dichloroethane	na	< 1.0	< 1.0	-	-	< 1.0	< 1.0	-	-	-	< 1.0	-	-
cis 1,2-Dichloroethene	na	< 1.0	< 1.0	-	-	< 1.0	< 1.0	-	-	-	< 1.0	-	-
Bromochloromethane	na	< 5.0	< 5.0	-	-	< 5.0	< 5.0	-	-	-	< 5.0	-	-
Trichloromethane	na	< 1.0	< 1.0	-	-	< 1.0	< 1.0	-	-	-	1.2	-	-
1,1,1-Trichloroethane	na	< 1.0	< 1.0	-	-	< 1.0	< 1.0	-	-	-	< 1.0	-	-
Tetrachloromethane	na	< 1.0	< 1.0	-	-	< 1.0	< 1.0	-	-	-	< 1.0	-	-
1,1-Dichloropropene	na	< 1.0	< 1.0	-	-	< 1.0	< 1.0	-	-	-	< 1.0	-	-
Benzene	na	< 1.0	< 1.0	-	-	43	< 1.0	-	-	-	< 1.0	-	-
1,2-Dichloroethane	na	< 2.0	< 2.0	-	-	< 2.0	< 2.0	-	-	-	< 2.0	-	-
Trichloroethene	na	< 1.0	< 1.0	-	-	< 1.0	< 1.0	-	-	-	< 1.0	-	-
1,2-Dichloropropane	na	< 1.0	< 1.0	-	-	< 1.0	< 1.0	-	-	-	< 1.0	-	-
Dibromomethane	na	< 1.0	< 1.0	-	-	< 1.0	< 1.0	-	-	-	< 1.0	-	-
Bromodichloromethane	na	< 5.0	< 5.0	-	-	< 5.0	< 5.0	-	-	-	< 5.0	-	-
cis-1,3-Dichloropropene	na	< 10	< 10	-	-	< 10	< 10	-	-	-	< 10	-	-
Toluene	869	< 1.0	< 1.0	-	-	31	< 1.0	-	-	-	1.5	-	-
Trans-1,3-Dichloropropene	na	< 10	< 10	-	-	< 10	< 10	-	-	-	< 10	-	-
1,1,2-Trichloroethane	na	< 10	< 10	-	-	< 10	< 10	-	-	-	< 10	-	-
Tetrachloroethene	na	< 1.0	< 1.0	-	-	< 1.0	< 1.0	-	-	-	< 1.0	-	-
1,3-Dichloropropane	na	< 2.0	< 2.0	-	-	< 2.0	< 2.0	-	-	-	< 2.0	-	-
Dibromochloromethane	na	< 10	< 10	-	-	< 10	< 10	-	-	-	< 10	-	-
1,2-Dibromoethane	na	< 5.0	< 5.0	-	-	< 5.0	< 5.0	-	-	-	< 5.0	-	-
Chlorobenzene	na	< 1.0	< 1.0	-	-	< 1.0	< 1.0	-	-	-	< 1.0	-	-
1,1,1,2-Tetrachloroethane	na	< 2.0	< 2.0	-	-	< 2.0	< 2.0	-	-	-	< 2.0	-	-
Ethylbenzene	518	20	< 1.0	-	-	4.1	< 1.0	-	-	-	< 1.0	-	-
m & p-Xylene	na	43	< 1.0	-	-	14	< 1.0	-	-	-	< 1.0	-	-
o-Xylene	na	120	3.1	-	-	11	< 1.0	-	-	-	< 1.0	-	-
Styrene	na	< 1.0	< 1.0	-	-	50	< 1.0	-	-	-	< 1.0	-	-
Tribromomethane	na	< 1.0	< 1.0	-	-	< 1.0	< 1.0	-	-	-	< 1.0	-	-
Isopropylbenzene	na	< 1.0	< 1.0	-	-	< 1.0	< 1.0	-	-	-	< 1.0	-	-
Bromobenzene	na	< 1.0	< 1.0	-	-	< 1.0	< 1.0	-	-	-	< 1.0	-	-
1,2,3-Trichloropropane	na	< 50	< 50	-	-	< 50	< 50	-	-	-	< 50	-	-
N-Propylbenzene	na	< 1.0	< 1.0	-	-	< 1.0	< 1.0	-	-	-	< 1.0	-	-
2-Chlorotoluene	na	< 1.0	< 1.0	-	-	< 1.0	< 1.0	-	-	-	< 1.0	-	-
1,3,5-Trimethylbenzene	na	< 1.0	< 1.0	-	-	5.2	< 1.0	-	-	-	< 1.0	-	-
4-Chlorotoluene	na	< 1.0	< 1.0	-	-	< 1.0	< 1.0	-	-	-	< 1.0	-	-
Tert-Butylbenzene	na	< 1.0	< 1.0	-	-	< 1.0	< 1.0	-	-	-	< 1.0	-	-
1,2,4-Trimethylbenzene	na	< 1.0	< 1.0	-	-	6.3	< 1.0	-	-	-	< 1.0	-	-
Sec-Butylbenzene	na	< 1.0	< 1.0	-	-	< 1.0	< 1.0	-	-	-	< 1.0	-	-
1,3-Dichlorobenzene	na	< 1.0	< 1.0	-	-	< 1.0	< 1.0	-	-	-	< 1.0	-	-
4-Isopropyltoluene	na	< 1.0	< 1.0	-	-	< 1.0	< 1.0	-	-	-	< 1.0	-	-
1,4-Dichlorobenzene	na	< 1.0	< 1.0	-	-	< 1.0	< 1.0	-	-	-	< 1.0	-	-
N-Butylbenzene	na	< 1.0	< 1.0	-	-	< 1.0	< 1.0	-	-	-	< 1.0	-	-
1,2-Dichlorobenzene	na	< 1.0	< 1.0	-	-	< 1.0	< 1.0	-	-	-	< 1.0	-	-
1,2-Dibromo-3-Chloropropane	na	< 50	< 50	-	-	< 50	< 50	-	-	-	< 50	-	-
1,2,4-Trichlorobenzene	na	< 1.0	< 1.0	-	-	< 1.0	< 1.0	-	-	-	< 1.0	-	-
Hexachlorobutadiene	na	< 1.0	< 1.0	-	-	< 1.0	< 1.0	-	-	-	< 1.0	-	-
1,2,3-Trichlorobenzene	na	< 2.0	< 2.0	-	-	< 2.0	< 2.0	-	-	-	< 2.0	-	-
Methyl Tert-Butyl Ether	na	< 1.0	< 1.0	-	-	< 1.0	< 1.0	-	-	-	< 1.0	-	-
N-Nitrosodimethylamine	na	< 0.50	< 0.50	-	-	< 5.80	< 0.50	-	-	-	< 0.50	-	-
Phenol	na	< 0.50	< 0.50	-	-	< 5.80	< 0.50	-	-	-	< 0.50	-	-
2-Chlorophenol	na	< 0.50	< 0.50	-	-	< 5.80	< 0.50	-	-	-	< 0.50	-	-
Bis-(2-Chloroethyl)Ether	na	< 0.50	< 0.50	-	-	< 5.80	< 0.50	-	-	-	< 0.50	-	-
1,3-Dichlorobenzene	na	< 0.50	< 0.50	-	-	< 5.80	< 0.50	-	-	-	< 0.50	-	-
1,4-Dichlorobenzene	na	< 0.50	< 0.50	-	-	< 5.80	< 0.50	-	-	-	< 0.50	-	-

1,2-Dichlorobenzene	na	< 0.50	< 0.50	-	-	< 5.80	< 0.50	-	-	-	< 0.50	-	-
2-Methylphenol	na	< 0.50	< 0.50	-	-	< 5.80	< 0.50	-	-	-	< 0.50	-	-
Bis(2-Chloroisopropyl)Ether	na	< 0.50	< 0.50	-	-	< 5.80	< 0.50	-	-	-	< 0.50	-	-
Hexachloroethane	8	< 0.50	< 0.50	-	-	< 5.80	< 0.50	-	-	-	< 0.50	-	-
N-Nitrosodi-n-propylamine	na	< 0.50	< 0.50	-	-	< 5.80	< 0.50	-	-	-	< 0.50	-	-
4-Methylphenol	na	< 0.50	< 0.50	-	-	< 5.80	< 0.50	-	-	-	< 0.50	-	-
Nitrobenzene	na	< 0.50	< 0.50	-	-	< 5.80	< 0.50	-	-	-	< 0.50	-	-
Isophorone	na	< 0.50	< 0.50	-	-	< 5.80	< 0.50	-	-	-	< 0.50	-	-
2-Nitrophenol	na	< 0.50	< 0.50	-	-	< 5.80	< 0.50	-	-	-	< 0.50	-	-
2,4-Dimethylphenol	na	< 0.50	< 0.50	-	-	< 5.80	< 0.50	-	-	-	< 0.50	-	-
Bis(2-Chloroethoxy)Methane	na	< 0.50	< 0.50	-	-	< 5.80	< 0.50	-	-	-	< 0.50	-	-
2,4-Dichlorophenol	na	< 0.50	< 0.50	-	-	< 5.80	< 0.50	-	-	-	< 0.50	-	-
1,2,4-Trichlorobenzene	na	< 0.50	< 0.50	-	-	< 5.80	< 0.50	-	-	-	< 0.50	-	-
Naphthalene	76	< 0.50	< 0.50	-	-	> 5800	< 0.50	-	-	-	< 0.50	-	-
4-Chloroaniline	na	< 0.50	< 0.50	-	-	< 5.80	< 0.50	-	-	-	< 0.50	-	-
Hexachlorobutadiene	na	< 0.50	< 0.50	-	-	< 5.80	< 0.50	-	-	-	< 0.50	-	-
4-Chloro-3-Methylphenol	na	< 0.50	< 0.50	-	-	< 5.80	< 0.50	-	-	-	< 0.50	-	-
2-Methylnaphthalene	na	< 0.50	< 0.50	-	-	470	< 0.50	-	-	-	< 0.50	-	-
4-Nitrophenol	na	< 0.50	< 0.50	-	-	< 5.80	< 0.50	-	-	-	< 0.50	-	-
2,4,6-Trichlorophenol	na	< 0.50	< 0.50	-	-	< 5.80	< 0.50	-	-	-	< 0.50	-	-
2,4,5-Trichlorophenol	na	< 0.50	< 0.50	-	-	< 5.80	< 0.50	-	-	-	< 0.50	-	-
2-Chloronaphthalene	114	< 0.50	< 0.50	-	-	< 5.80	< 0.50	-	-	-	< 0.50	-	-
2-Nitroaniline	na	< 0.50	< 0.50	-	-	< 5.80	< 0.50	-	-	-	< 0.50	-	-
Acenaphthylene	na	< 0.50	< 0.50	-	-	180	< 0.50	-	-	-	< 0.50	-	-
Dimethylphthalate	na	< 0.50	< 0.50	-	-	< 5.80	< 0.50	-	-	-	< 0.50	-	-
2,6-Dinitrotoluene	na	< 0.50	< 0.50	-	-	< 5.80	< 0.50	-	-	-	< 0.50	-	-
Acenaphthene	na	< 0.50	< 0.50	-	-	1600	< 0.50	-	-	-	< 0.50	-	-
3-Nitroaniline	na	< 0.50	< 0.50	-	-	< 5.80	< 0.50	-	-	-	< 0.50	-	-
Dibenzofuran	na	< 0.50	< 0.50	-	-	890	< 0.50	-	-	-	< 0.50	-	-
4-Chlorophenylphenylether	na	< 0.50	< 0.50	-	-	< 5.80	< 0.50	-	-	-	< 0.50	-	-
2,4-Dinitrotoluene	na	< 0.50	< 0.50	-	-	< 5.80	< 0.50	-	-	-	< 0.50	-	-
Fluorene	31	< 0.50	< 0.50	-	-	540	< 0.50	-	-	-	< 0.50	-	-
Diethyl Phthalate	na	< 0.50	< 0.50	-	-	< 5.80	< 0.50	-	-	-	< 0.50	-	-
4-Nitroaniline	na	< 0.50	< 0.50	-	-	< 5.80	< 0.50	-	-	-	< 0.50	-	-
Azobenzene	na	< 0.50	< 0.50	-	-	< 5.80	< 0.50	-	-	-	< 0.50	-	-
4-Bromophenylphenyl Ether	na	< 0.50	< 0.50	-	-	< 5.80	< 0.50	-	-	-	< 0.50	-	-
Hexachlorobenzene	na	< 0.50	< 0.50	-	-	< 5.80	< 0.50	-	-	-	< 0.50	-	-
Phenanthrene	na	1.7	< 0.50	-	-	910	< 0.50	-	-	-	< 0.50	-	-
Anthracene	na	< 0.50	< 0.50	-	-	450	< 0.50	-	-	-	< 0.50	-	-
Carbazole	na	< 0.50	< 0.50	-	-	3500	< 0.50	-	-	-	< 0.50	-	-
Di-N-Butyl Phthalate	na	< 0.50	< 0.50	-	-	< 5.80	< 0.50	-	-	-	< 0.50	-	-
Fluoranthene	na	3.3	< 0.50	-	-	700	0.64	-	-	-	< 0.50	-	-
Pyrene	na	4.5	< 0.50	-	-	480	0.57	-	-	-	< 0.50	-	-
Butylbenzyl Phthalate	na	< 0.50	< 0.50	-	-	< 5.80	< 0.50	-	-	-	< 0.50	-	-
Benzoanthracene	na	< 0.50	< 0.50	-	-	310	< 0.50	-	-	-	< 0.50	-	-
Chrysene	na	< 0.50	< 0.50	-	-	310	< 0.50	-	-	-	< 0.50	-	-
Bis(2-Ethylhexyl)Phthalate	na	9.6	< 0.50	-	-	< 5.80	< 0.50	-	-	-	< 0.50	-	-
Di-N-Octyl Phthalate	na	< 0.50	< 0.50	-	-	< 5.80	< 0.50	-	-	-	< 0.50	-	-
Benzofluoranthene	na	2	< 0.50	-	-	380	1.1	-	-	-	< 0.50	-	-
Benzo(k)fluoranthene	na	< 0.50	< 0.50	-	-	91	< 0.50	-	-	-	< 0.50	-	-
Benzopyrene	na	< 0.50	< 0.50	-	-	180	0.62	-	-	-	< 0.50	-	-
Indeno(1,2,3-c,d)Pyrene	na	< 0.50	< 0.50	-	-	160	0.69	-	-	-	< 0.50	-	-
Dibenz(a,h)Anthracene	na	< 0.50	< 0.50	-	-	47	< 0.50	-	-	-	< 0.50	-	-
Benzo[g,h,i]perylene	na	< 0.50	< 0.50	-	-	150	0.88	-	-	-	< 0.50	-	-
Naphthalene	76	11	< 0.10	0.42	16	380	3.5	66	< 0.10	12	< 0.10	0.15	< 0.10
Acenaphthylene	na	1.8	< 0.10	0.11	1.2	6.7	2.4	< 0.10	< 0.10	0.65	< 0.10	< 0.10	< 0.10
Acenaphthene	na	1.9	< 0.10	< 0.10	3.4	41	1	13	< 0.10	3.1	< 0.10	0.19	< 0.10
Fluorene	31	2	< 0.10	0.11	2	21	1.4	7.3	< 0.10	3.1	< 0.10	0.3	< 0.10
Phenanthrene	na	2.4	< 0.10	0.78	11	38	2.8	9.2	< 0.10	6.9	0.2	1.6	< 0.10
Anthracene	na	< 0.10	< 0.10	0.15	2.9	22	1.2	1.6	< 0.10	0.93	< 0.10	0.49	< 0.10
Fluoranthene	na	3.4	< 0.10	0.87	9.4	32	4.4	2.4	< 0.10	1.9	0.24	1.4	< 0.10
Pyrene	na	4.3	< 0.10	0.66	7.4	21	3.4	2.5	< 0.10	2.3	0.19	1	< 0.10
Benzoanthracene	na	< 0.10	< 0.10	< 0.10	3.4	12	2.1	< 0.10	< 0.10	0.8	< 0.10	0.28	< 0.10
Chrysene	na	< 0.10	< 0.10	< 0.10	4.1	11	3.1	< 0.10	< 0.10	2.1	< 0.10	0.25	< 0.10
Benzofluoranthene	na	< 0.10	< 0.10	< 0.10	4.9	< 0.10	6.5	< 0.10	< 0.10	1.1	< 0.10	< 0.10	< 0.10
Benzo(k)fluoranthene	na	< 0.10	< 0.10	< 0.10	1.4	< 0.10	1.9	< 0.10	< 0.10	0.28	< 0.10	< 0.10	< 0.10
Benzopyrene	na	< 0.10	< 0.10	< 0.10	2.9	< 0.10	3.8	< 0.10	< 0.10	0.77	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	na	< 0.10	< 0.10	< 0.10	2.1	< 0.10	5.1	< 0.10	< 0.10	0.35	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	na	< 0.10	< 0.10	< 0.10	0.53	< 0.10	1.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	na	< 0.10	< 0.10	< 0.10	2.1	< 0.10	4.8	< 0.10	< 0.10	0.67	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's	na	27	< 2.0	3.1	75	580	49	100	< 2.0	37	< 2.0	5.7	< 2.0

Notes:

LMDL Laboratory method detection limit

< Result less than the LMDL

GAC Generic assessment criteria

- COPC not analysed

Measured concentration in excess of Tier 1 value

Comparison of tier 1 values against measured concentrations in soil

COPC	Chemtest Job No.	24-29969	24-29969	24-29969	Maximum concentration detected in soil (mg/kg)	Total No. of soil samples analysed	Number of detects in soil above the Tier 1
	Chemtest Sample ID	1867652	1867654	1867656			
	Client sample ref.						
	Sample location	TP3005	TP3005	BH318			
	Top depth (m)	SOIL	SOIL	SOIL			
	Top depth (m)	1.50	0.70	0.30			
	Depth to bottom (m)						
	Date sampled						
	RSK Commercial Tier 1 values (mg/kg)						
ACM Type	na	-	-	-	0	3	0
Asbestos Identification	na	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	0	87	84
Asbestos by Gravimetry	na				0.004	82	0
Total Asbestos	na				0.004	82	0
Moisture	na	3.7	3.6	11	71	87	0
Soil Colour	na	Brown	Brown	Brown	0	87	0
Other Material	na	Roots and Stones	Stones and Roots	Stones	0	87	87
Soil Texture	na	Sand	Sand	Sand	0	87	62
pH at 20C	na	9.7	9.9	9.3	9.9	3	0
Arsenic	na	7.3	2.8	18	92	87	0
Cadmium	na	0.58	0.11	1.9	5.2	87	0
Chromium	na	14	14	54	5900	87	0
Copper	na	21	6	74	470	87	0
Mercury	na	0.13	< 0.05	0.12	1.9	87	0
Nickel	na	6.8	5.3	30	170	87	0
Lead	na	70	16	500	690	87	0
Selenium	na	2.9	2.5	1.2	5.5	87	0
Zinc	na	200	45	800	2100	87	0
Chromium (Hexavalent)	na	< 0.50	< 0.50	< 0.50	3.5	62	0
Aliphatic VPH >C5-C6	304	< 0.05	< 0.05	< 0.05	0	87	0
Aliphatic VPH >C6-C7	na	< 0.05	< 0.05	< 0.05	0	87	0
Aliphatic VPH >C7-C8	na	< 0.05	< 0.05	< 0.05	0.35	87	0
Aliphatic VPH >C6-C8 (Sum)	144	< 0.10	< 0.10	< 0.10	0.35	87	0
Aliphatic VPH >C8-C10	78	< 0.05	< 0.05	< 0.05	2.7	87	0
Total Aliphatic VPH >C5-C10	na	< 0.25	< 0.25	< 0.25	3.1	87	0
Aliphatic EPH >C10-C12 MC	48	2	< 2.0	2.5	290	87	6
Aliphatic EPH >C12-C16 MC	24	< 1.0	< 1.0	< 1.0	3800	87	10
Aliphatic EPH >C16-C21 MC	na	< 2.0	< 2.0	< 2.0	11000	87	0
Aliphatic EPH >C21-C35 MC	na	< 3.0	5.5	7.3	110000	87	0
Aliphatic EPH >C35-C40 MC	na	< 10	< 10	< 10	20000	87	0
Total Aliphatic EPH >C10-C35 MC	na	< 5.0	7.7	10	120000	87	0
Total Aliphatic EPH >C10-C40 MC	na	< 10	< 10	< 10	140000	87	0
Aromatic VPH >C5-C7	na	< 0.05	< 0.05	< 0.05	0.88	87	0
Aromatic VPH >C7-C8	518	< 0.05	< 0.05	< 0.05	0	87	0
Aromatic VPH >C8-C10	613	< 0.05	< 0.05	< 0.05	0.21	87	0
Total Aromatic VPH >C5-C10	na	< 0.25	< 0.25	< 0.25	0.88	87	0
Aromatic EPH >C10-C12 MC	364	< 1.0	< 1.0	< 1.0	150000	87	1
Aromatic EPH >C12-C16 MC	169	< 1.0	< 1.0	< 1.0	29000	87	5
Aromatic EPH >C16-C21 MC	na	5.2	6	8.6	27000	87	0
Aromatic EPH >C21-C35 MC	na	< 2.0	3.5	6	13000	87	0
Aromatic EPH >C35-C40 MC	na	< 1.0	< 1.0	14	4700	87	0
Total Aromatic EPH >C10-C35 MC	na	6.1	9.7	15	220000	87	0
Total Aromatic EPH >C10-C40 MC	na	< 10	< 10	29	220000	87	0
Total VPH >C5-C10	na	< 0.50	< 0.50	< 0.50	4	87	0
Total EPH >C10-C35 MC	na	11	17	25	230000	87	0
Total EPH >C10-C40 MC	na	11	17	39	230000	87	0
Naphthalene	76	-	-	-	2.3	12	0
Acenaphthylene	na	-	-	-	0.41	12	0
Acenaphthene	na	-	-	-	0.81	12	0
Fluorene	31	-	-	-	1	12	0
Phenanthrene	na	-	-	-	2.6	12	0
Anthracene	na	-	-	-	0.26	12	0
Fluoranthene	na	-	-	-	1.4	12	0
Pyrene	na	-	-	-	1.3	12	0
Benzoanthracene	na	-	-	-	1.6	12	0
Chrysene	na	-	-	-	3.2	12	0
Benzofluoranthene	na	-	-	-	1.5	12	0
Benzo[k]fluoranthene	na	-	-	-	0.47	12	0
Benzo(a)pyrene	na	-	-	-	0.86	12	0
Indeno(1,2,3-c,d)Pyrene	na	-	-	-	0.64	12	0
Dibenz(a,h)Anthracene	na	-	-	-	0.19	12	0
Benzo[g,h,i]perylene	na	-	-	-	0.76	12	0
Total Of 16 PAH's	na	-	-	-	11	12	0
Dichlorodifluoromethane	na	< 1.0	< 1.0	-	0	11	0
Chloromethane	na	< 1.0	< 1.0	-	0	11	0
Vinyl Chloride	na	< 1.0	< 1.0	-	0	11	0
Bromomethane	na	< 20	< 20	-	0	11	0
Chloroethane	na	< 2.0	< 2.0	-	0	11	0
Trichlorofluoromethane	na	< 1.0	< 1.0	-	0	11	0
1,1-Dichloroethene	na	< 1.0	< 1.0	-	0	11	0
Dichloromethane	na	< 50	< 50	-	0	11	0
Trans 1,2-Dichloroethene	na	< 1.0	< 1.0	-	0	11	0
1,1-Dichloroethane	na	< 1.0	< 1.0	-	0	11	0
cis 1,2-Dichloroethene	na	< 1.0	< 1.0	-	0	11	0
Bromochloromethane	na	< 5.0	< 5.0	-	0	11	0
Trichloromethane	na	< 1.0	< 1.0	-	1.2	11	0
1,1,1-Trichloroethane	na	< 1.0	< 1.0	-	0	11	0
Tetrachloromethane	na	< 1.0	< 1.0	-	0	11	0
1,1-Dichloropropene	na	< 1.0	< 1.0	-	0	11	0
Benzene	na	< 1.0	< 1.0	-	43	11	0
1,2-Dichloroethane	na	< 2.0	< 2.0	-	0	11	0
Trichloroethene	na	< 1.0	< 1.0	-	0	11	0
1,2-Dichloropropane	na	< 1.0	< 1.0	-	0	11	0
Dibromomethane	na	< 1.0	< 1.0	-	0	11	0
Bromodichloromethane	na	< 5.0	< 5.0	-	0	11	0
cis-1,3-Dichloropropene	na	< 10	< 10	-	0	11	0
Toluene	869	< 1.0	< 1.0	-	31	11	0
Trans-1,3-Dichloropropene	na	< 10	< 10	-	0	11	0
1,1,2-Trichloroethane	na	< 10	< 10	-	0	11	0
Tetrachloroethene	na	< 1.0	< 1.0	-	0	11	0
1,3-Dichloropropane	na	< 2.0	< 2.0	-	0	11	0
Dibromochloromethane	na	< 10	< 10	-	0	11	0
1,2-Dibromoethane	na	< 5.0	< 5.0	-	0	11	0
Chlorobenzene	na	< 1.0	< 1.0	-	0	11	0
1,1,1,2-Tetrachloroethane	na	< 2.0	< 2.0	-	0	11	0
Ethylbenzene	518	< 1.0	< 1.0	-	20	11	0
m & p-Xylene	na	< 1.0	< 1.0	-	43	11	0
o-Xylene	na	< 1.0	< 1.0	-	120	11	0
Styrene	na	< 1.0	< 1.0	-	50	11	0
Tribromomethane	na	< 1.0	< 1.0	-	0	11	0
Isopropylbenzene	na	< 1.0	< 1.0	-	0	11	0
Bromobenzene	na	< 1.0	< 1.0	-	0	11	0
1,2,3-Trichloropropane	na	< 50	< 50	-	0	11	0
N-Propylbenzene	na	< 1.0	< 1.0	-	0	11	0
2-Chlorotoluene	na	< 1.0	< 1.0	-	0	11	0
1,3,5-Trimethylbenzene	na	< 1.0	< 1.0	-	5.2	11	0
4-Chlorotoluene	na	< 1.0	< 1.0	-	0	11	0
Tert-Butylbenzene	na	< 1.0	< 1.0	-	0	11	0
1,2,4-Trimethylbenzene	na	< 1.0	< 1.0	-	6.3	11	0
Sec-Butylbenzene	na	< 1.0	< 1.0	-	0	11	0
1,3-Dichlorobenzene	na	< 1.0	< 1.0	-	0	11	0
4-Isopropyltoluene	na	< 1.0	< 1.0	-	0	11	0
1,4-Dichlorobenzene	na	< 1.0	< 1.0	-	0	11	0
N-Butylbenzene	na	< 1.0	< 1.0	-	0	11	0
1,2-Dichlorobenzene	na	< 1.0	< 1.0	-	0	11	0
1,2-Dibromo-3-Chloropropane	na	< 50	< 50	-	0	11	0
1,2,4-Trichlorobenzene	na	< 1.0	< 1.0	-	0	11	0
Hexachlorobutadiene	na	< 1.0	< 1.0	-	0	11	0
1,2,3-Trichlorobenzene	na	< 2.0	< 2.0	-	0	11	0
Methyl Tert-Butyl Ether	na	< 1.0	< 1.0	-	0	11	0
N-Nitrosodimethylamine	na	< 0.50	< 0.50	-	0	11	0
Phenol	na	< 0.50	< 0.50	-	0	11	0
2-Chlorophenol	na	< 0.50	< 0.50	-	0	11	0
Bis-(2-Chloroethyl)Ether	na	< 0.50	< 0.50	-	0	11	0
1,3-Dichlorobenzene	na	< 0.50	< 0.50	-	0	11	0
1,4-Dichlorobenzene	na	< 0.50	< 0.50	-	0	11	0

1,2-Dichlorobenzene	na	< 0.50	< 0.50	-	0	11	0
2-Methylphenol	na	< 0.50	< 0.50	-	0	11	0
Bis(2-Chloroisopropyl)Ether	na	< 0.50	< 0.50	-	0	11	0
Hexachloroethane	8	< 0.50	< 0.50	-	0	11	0
N-Nitrosodi-n-propylamine	na	< 0.50	< 0.50	-	0	11	0
4-Methylphenol	na	< 0.50	< 0.50	-	0	11	0
Nitrobenzene	na	< 0.50	< 0.50	-	0	11	0
Isophorone	na	< 0.50	< 0.50	-	0	11	0
2-Nitrophenol	na	< 0.50	< 0.50	-	0	11	0
2,4-Dimethylphenol	na	< 0.50	< 0.50	-	0	11	0
Bis(2-Chloroethoxy)Methane	na	< 0.50	< 0.50	-	0	11	0
2,4-Dichlorophenol	na	< 0.50	< 0.50	-	0	11	0
1,2,4-Trichlorobenzene	na	< 0.50	< 0.50	-	0	11	0
Naphthalene	76	< 0.50	< 0.50	-	0	11	0
4-Chloroaniline	na	< 0.50	< 0.50	-	0	11	0
Hexachlorobutadiene	na	< 0.50	< 0.50	-	0	11	0
4-Chloro-3-Methylphenol	na	< 0.50	< 0.50	-	0	11	0
2-Methylnaphthalene	na	< 0.50	< 0.50	-	470	11	0
4-Nitrophenol	na	< 0.50	< 0.50	-	0	11	0
2,4,6-Trichlorophenol	na	< 0.50	< 0.50	-	0	11	0
2,4,5-Trichlorophenol	na	< 0.50	< 0.50	-	0	11	0
2-Chloronaphthalene	114	< 0.50	< 0.50	-	0	11	0
2-Nitroaniline	na	< 0.50	< 0.50	-	0	11	0
Acenaphthylene	na	< 0.50	< 0.50	-	180	11	0
Dimethylphthalate	na	< 0.50	< 0.50	-	0	11	0
2,6-Dinitrotoluene	na	< 0.50	< 0.50	-	0	11	0
Acenaphthene	na	< 0.50	< 0.50	-	1600	11	0
3-Nitroaniline	na	< 0.50	< 0.50	-	0	11	0
Dibenzofuran	na	< 0.50	< 0.50	-	890	11	0
4-Chlorophenylphenylether	na	< 0.50	< 0.50	-	0	11	0
2,4-Dinitrotoluene	na	< 0.50	< 0.50	-	0	11	0
Fluorene	31	< 0.50	< 0.50	-	540	11	1
Diethyl Phthalate	na	< 0.50	< 0.50	-	0	11	0
4-Nitroaniline	na	< 0.50	< 0.50	-	0	11	0
Azobenzene	na	< 0.50	< 0.50	-	0	11	0
4-Bromophenylphenyl Ether	na	< 0.50	< 0.50	-	0	11	0
Hexachlorobenzene	na	< 0.50	< 0.50	-	0	11	0
Phenanthrene	na	< 0.50	0.7	-	910	11	0
Anthracene	na	< 0.50	< 0.50	-	450	11	0
Carbazole	na	< 0.50	< 0.50	-	3500	11	0
Di-N-Butyl Phthalate	na	< 0.50	< 0.50	-	0	11	0
Fluoranthene	na	< 0.50	1.4	-	700	11	0
Pyrene	na	< 0.50	0.96	-	480	11	0
Butylbenzyl Phthalate	na	< 0.50	< 0.50	-	0	11	0
Benzoanthracene	na	< 0.50	0.82	-	310	11	0
Chrysene	na	< 0.50	0.81	-	310	11	0
Bis(2-Ethylhexyl)Phthalate	na	< 0.50	< 0.50	-	9.6	11	0
Di-N-Octyl Phthalate	na	< 0.50	< 0.50	-	2.1	11	0
Benzofluoranthene	na	< 0.50	1.1	-	380	11	0
Benzo[k]fluoranthene	na	< 0.50	< 0.50	-	91	11	0
Benzopyrene	na	< 0.50	0.63	-	180	11	0
Indeno(1,2,3-c,d)Pyrene	na	< 0.50	< 0.50	-	160	11	0
Dibenz(a,h)Anthracene	na	< 0.50	< 0.50	-	47	11	0
Benzo[g,h,i]perylene	na	< 0.50	< 0.50	-	150	11	0
Naphthalene	76	< 0.10	< 0.10	0.8	380	75	1
Acenaphthylene	na	< 0.10	< 0.10	0.12	6.7	75	0
Acenaphthene	na	< 0.10	< 0.10	< 0.10	41	75	0
Fluorene	31	< 0.10	< 0.10	0.14	21	75	0
Phenanthrene	na	< 0.10	< 0.10	1.5	38	75	0
Anthracene	na	< 0.10	< 0.10	0.29	22	75	0
Fluoranthene	na	< 0.10	< 0.10	1.9	32	75	0
Pyrene	na	< 0.10	< 0.10	1.2	21	75	0
Benzoanthracene	na	< 0.10	< 0.10	1.2	12	75	0
Chrysene	na	< 0.10	< 0.10	1.7	11	75	0
Benzofluoranthene	na	< 0.10	< 0.10	2.1	6.5	75	0
Benzo[k]fluoranthene	na	< 0.10	< 0.10	0.49	3.8	75	0
Benzopyrene	na	< 0.10	< 0.10	0.99	3.8	75	0
Indeno(1,2,3-c,d)Pyrene	na	< 0.10	< 0.10	0.83	5.1	75	0
Dibenz(a,h)Anthracene	na	< 0.10	< 0.10	0.31	3.9	75	0
Benzo[g,h,i]perylene	na	< 0.10	< 0.10	0.9	4.8	75	0
Total Of 16 PAH's	na	< 2.0	< 2.0	15	580	75	0

Notes:

LMDL Laboratory method detection limit

< Result less than the LMDL

GAC Generic assessment criteria

- COPC not analysed

Measured concentration in excess of Tier 1 value

Project / Site name: 315531 EAF Meltshop

Lab Sample Number								1846695	1846696	1846697	1846705	1846706	1846707
Sample Reference								BH315	BH301	BH324	BH331	BH322	BH317
Sample Number								(WATER)	(WATER)	(WATER)	(WATER)	(WATER)	(WATER)
Depth (m)								1.58	1.55	1.42	3.82	3.50	1.37
Date Sampled								02-Aug-2024	02-Aug-2024	02-Aug-2024	02-Aug-2024	02-Aug-2024	02-Aug-2024
Time Taken													
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**	**RSK GrAC - sand 0.65m depth to groundwater**	**No. > GAC**	**Maximum**	**Minimum (excluding LMDL)**						
General Inorganics													
pH	pH Units	N/A	ISO 17025	-	-	8.6	7.7	8.4	8.5	8.6	8.1	8.0	7.7
Total Cyanide	µg/l	10	ISO 17025	-	-	0	0	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Sulphate as SO3	µg/l	45	ISO 17026	-	-	84	34	63	34	84	<1	<1	<1
Total Phenols													
Total Phenols (HPLC)	µg/l	3.5	NONE	-	-	0	0	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Speciated PAHs													
Naphthalene	µg/l	0.01	ISO 17025	19000	0	0	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	µg/l	0.01	ISO 17025	7950	0	0	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	µg/l	0.01	ISO 17025	4100	0	0	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	µg/l	0.01	ISO 17025	-	-	0	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	µg/l	0.01	ISO 17025	-	-	0	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	µg/l	0.01	ISO 17025	-	-	0	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	µg/l	0.01	ISO 17025	-	-	0	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene	µg/l	0.01	ISO 17025	-	-	0	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(a)anthracene	µg/l	0.01	ISO 17025	-	-	0	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene	µg/l	0.01	ISO 17025	-	-	0	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(b)fluoranthene	µg/l	0.01	ISO 17025	-	-	0	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(k)fluoranthene	µg/l	0.01	ISO 17025	-	-	0	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(a)pyrene	µg/l	0.01	ISO 17025	-	-	0	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-cd)pyrene	µg/l	0.01	ISO 17025	-	-	0	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)anthracene	µg/l	0.01	ISO 17025	-	-	0	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(ghi)perylene	µg/l	0.01	ISO 17025	-	-	0	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total PAH													
Total EPA-16 PAHs	µg/l	0.16	ISO 17025	-	-	0	0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Arsenic (dissolved)	µg/l	0.15	ISO 17025	-	-	37	3.3	10	27	37	6.7	3.3	6.6
Boron	µg/l	10	ISO 17025	-	-	320	83	140	83	320	300	300	300
Cadmium (dissolved)	µg/l	0.02	ISO 17025	-	-	0	0	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11
Chromium (dissolved)	µg/l	0.2	ISO 17025	-	-	0.67	0.67	<0.5	<0.5	0.67	<0.5	<0.5	<0.5
Cobalt (dissolved)	µg/l	0.2	ISO 17025	-	-	0	0	-	-	-	-	-	-
Copper (dissolved)	µg/l	0.5	ISO 17025	-	-	1.2	0.63	0.63	0.94	1.2	<0.5	<0.5	<0.5
Lead (dissolved)	µg/l	0.2	ISO 17025	-	-	0.5	0.5	0.5	0.5	0.5	<0.5	<0.5	<0.5
Mercury (dissolved)	µg/l	0.05	ISO 17025	56	0	0.09	0.09	<0.05	<0.05	0.09	<0.05	<0.05	<0.05
Molybdenum (dissolved)	µg/l	0.05	ISO 17025	-	-	0	0	-	-	-	-	-	-
Nickel (dissolved)	µg/l	0.5	ISO 17025	-	-	1.2	0.5	0.5	0.5	1.2	<0.5	<0.5	<0.5
Selenium (dissolved)	µg/l	0.6	ISO 17025	-	-	0	0	-	-	-	-	-	-
Vanadium (dissolved)	µg/l	0.2	ISO 17025	-	-	0	0	-	-	-	-	-	-
Zinc (dissolved)	µg/l	0.5	ISO 17025	-	-	7.2	5	5.3	5.8	<2.5	7.2	5.0	7.0
Petroleum Hydrocarbons													
Total TPH >C6-C40	µg/l	10	NONE	-	-	<10	<10	<10	<10	<10	<10	<10	<10

U/S = Unsuitable Sample I/S = Insufficient Sample

APPENDIX K
GQRA DATA SCREENING TABLES – WATERS INCLUDING PROJECT CRONUS

Project / Site name: 315531 EAF Meltshop

Lab Sample Number								1846695	1846696	1846697	1846705	1846706	1846707
Sample Reference								BH315	BH301	BH324	BH331	BH322	BH317
Sample Number								(WATER)	(WATER)	(WATER)	(WATER)	(WATER)	(WATER)
Depth (m)								1.58	1.55	1.42	3.82	3.50	1.37
Date Sampled								02-Aug-2024	02-Aug-2024	02-Aug-2024	02-Aug-2024	02-Aug-2024	02-Aug-2024
Time Taken													
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**	**RSK EQS or relevant DWS**	**No. > GAC**	**Maximum**	**Minimum (excluding LMDL)**						
General Inorganics													
pH	pH Units	N/A	ISO 17025	-	-	8.6	7.7	8.4	8.5	8.6	8.1	8.0	7.7
Total Cyanide	µg/l	10	ISO 17025	-	-	0	0	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Sulphate as SO3	µg/l	45	ISO 17026	-	-	84	34	63	34	84	<1	<1	<1
Total Phenols													
Total Phenols (HPLC)	µg/l	3.5	NONE	7.7	0	0	0	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Speciated PAHs													
Naphthalene	µg/l	0.01	ISO 17025	-	-	0	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	µg/l	0.01	ISO 17025	-	-	0	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	µg/l	0.01	ISO 17025	-	-	0	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	µg/l	0.01	ISO 17025	-	-	0	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	µg/l	0.01	ISO 17025	-	-	0	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	µg/l	0.01	ISO 17025	-	6	0	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	µg/l	0.01	ISO 17025	-	6	0	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene	µg/l	0.01	ISO 17025	-	-	0	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(a)anthracene	µg/l	0.01	ISO 17025	-	-	0	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene	µg/l	0.01	ISO 17025	-	-	0	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(b)fluoranthene	µg/l	0.01	ISO 17025	-	-	0	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(k)fluoranthene	µg/l	0.01	ISO 17025	-	-	0	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(a)pyrene	µg/l	0.01	ISO 17025	0.00017	0	0	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-cd)pyrene	µg/l	0.01	ISO 17025	-	-	0	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)anthracene	µg/l	0.01	ISO 17025	-	-	0	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(ghi)perylene	µg/l	0.01	ISO 17025	-	-	0	0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total PAH													
Total EPA-16 PAHs	µg/l	0.16	ISO 17025	-	-	0	0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Arsenic (dissolved)	µg/l	0.15	ISO 17025	25	2	37	3.3	10	27	37	6.7	3.3	6.6
Boron	µg/l	10	ISO 17025	-	-	320	83	140	83	320	300	300	300
Cadmium (dissolved)	µg/l	0.02	ISO 17025	0.2	0	0	0	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11
Chromium (dissolved)	µg/l	0.2	ISO 17025	8.1	0	0.67	0.67	<0.5	<0.5	0.67	<0.5	<0.5	<0.5
Cobalt (dissolved)	µg/l	0.2	ISO 17025	-	-	0	0	-	-	-	-	-	-
Copper (dissolved)	µg/l	0.5	ISO 17025	1	1	1.2	0.63	0.63	0.94	1.2	<0.5	<0.5	<0.5
Lead (dissolved)	µg/l	0.2	ISO 17025	1.3	0	0.5	0.5	0.5	0.5	0.5	<0.5	<0.5	<0.5
Mercury (dissolved)	µg/l	0.05	ISO 17025	0.07	1	0.09	0.09	<0.05	<0.05	0.09	<0.05	<0.05	<0.05
Molybdenum (dissolved)	µg/l	0.05	ISO 17025	-	-	0	0	-	-	-	-	-	-
Nickel (dissolved)	µg/l	0.5	ISO 17025	8.6	0	1.2	0.5	0.5	0.5	1.2	<0.5	<0.5	<0.5
Selenium (dissolved)	µg/l	0.6	ISO 17025	10	-	0	0	-	-	-	-	-	-
Vanadium (dissolved)	µg/l	0.2	ISO 17025	-	-	0	0	-	-	-	-	-	-
Zinc (dissolved)	µg/l	0.5	ISO 17025	6.8	2	7.2	5	5.3	5.8	<2.5	7.2	5.0	7.0
Petroleum Hydrocarbons													
Total TPH >C6-C40	µg/l	10	NONE	-	-	<10	<10	<10	<10	<10	<10	<10	<10

U/S = Unsuitable Sample I/S = Insufficient Sample

Measured concentration in excess of GAC

Analyte	Unit	GAC	T1	Max	Min	Count	# Detects	# Non-detects	# exceeding GAC
Metals									
Arsenic (dissolved)	µg/l	25		222	<1	47	42	5	13
Cadmium (dissolved)	µg/l	0.2		<1	<0.2	47	0	47	6
Chromium (dissolved)	µg/l		0.6	19	<1	47	40	7	
Chromium (hexavalent) (w)	µg/l	0.6		<20	<10	47	0	47	47
Copper (dissolved)	µg/l		3.76	60	<1	47	32	15	
Lead (dissolved)	µg/l	1.3		6	<1	47	10	37	7
Mercury (dissolved)	µg/l	0.07		0.6	<0.1	47	7	40	4
Nickel (dissolved)	µg/l	8.6		30	<1	47	32	15	4
Zinc (dissolved)	µg/l	6.8		17	<1	47	42	5	12
Volatile organic compounds									
1,2,3-Trichlorobenzene	µg/l	0.4		<15	<3	47	0	47	47
1,2,4-Trichlorobenzene	µg/l	0.4		<10	<1	17	0	17	17
1,2,4-Trichlorobenzene	µg/l	0.4		<15	<3	47	0	47	47
1,2-Dichloroethane	µg/l	10		13	<2	47	1	46	1
Chloroform	µg/l	2.5		<5	<1	47	0	47	1
Dichloromethane	µg/l	20		<25	<5	47	0	47	1
Hexachlorobutadiene	µg/l	0.6		<10	<1	17	0	17	17
Hexachlorobutadiene	µg/l	0.6		<5	<1	47	0	47	47
Polycyclic aromatic hydrocarbons (16)									
Acenaphthylene (w)	µg/l	5.8*		121	<0.01	47	37	10	8
Anthracene	µg/l	0.1		<1	<1	5	0	5	5
Anthracene (w)	µg/l	0.1		13.9	<0.01	47	30	17	19
Benzo(a)pyrene	µg/l	0.00017		<1	<1	5	0	5	5
Benzo(a)pyrene (w)	µg/l	0.00017		0.44	<0.01	47	10	37	10
Fluoranthene	µg/l	0.0063		<1	<1	5	0	5	5

Analyte	Unit	GAC	T1	Max	Min	Count	# Detects	# Non-detects	# exceeding GAC
Fluoranthene (w)	µg/l	0.0063		14.7	<0.01	47	32	15	32
Naphthalene	µg/l	2		36	<1	5	2	3	2
Naphthalene (w)	µg/l	2		4380	<0.01	47	40	7	15
Semi-volatile organic compounds									
Bis(2-ethylhexyl)phthalate	µg/l	1.3		<100	<10	46	0	46	46
Butylbenzyl phthalate	µg/l	0.75		<10	<1	46	0	46	46
Petroleum hydrocarbons									
Aro >C5-C7 (w)	µg/l	8		4701	<1	47	18	29	12
Aro >C7-C8 (w)	µg/l	74		304	<1	47	12	35	4
Benzene	µg/l	8		3317	<1	47	17	30	12
BTEX - Benzene (w)	µg/l	8		4701	<1	47	18	29	12
Toluene	µg/l	74		270	<1	47	12	35	4
BTEX - Toluene (w)	µg/l	74		304	<1	47	12	35	4
Phenols									
2,4-Dichlorophenol	µg/l	0.42		<10	<1	46	0	46	46
Pentachlorophenol (SVOC)	µg/l	0.4		<10	<1	46	0	46	46
Phenol	µg/l	7.7		668	<1	46	10	36	7
Phenol (w)	µg/l	7.7		960	<10	47	8	39	8
Phenols - Total by HPLC (w)	µg/l	7.7		9150	<10	47	9	38	9

# exceeding T1	Max sample (ID, depth and date)
	BH2 (Deep): 4.8-7 (01/21/2022)
47	BH1 (Deep): 3.19 (01/24/2022)
28	BH2 (Deep): 4.8-7 (01/21/2022) BH206: (30/06/2022) BH202: (06/15/2022) BH202: 2.5 (07/21/2022) BH8: 2.96 (01/24/2022) BH204: 3 (07/21/2022)
	BH202: (06/15/2022)
	BH202: 2.5 (07/21/2022) BH204: 3 (07/21/2022) BH204: 3 (07/21/2022)

# exceeding T1	Max sample (ID, depth and date)
	BH204: 3 (07/21/2022)
	BH5 (Shallow): 4.13 (02/16/2022)
	BH4 (Shallow): 3.24 (02/15/2022)
	BH202: (06/15/2022)
	BH202: 2.5 (07/21/2022)
	BH202: (06/15/2022)
	BH202: (06/15/2022)
	BH202: (06/15/2022)
	BH202: 2.5 (07/21/2022)
	BH202: 2.5 (07/21/2022)
	BH202: (06/15/2022)
	BH202: (06/15/2022)

APPENDIX L
GQRA DATA SCREENING TABLES

Calculations of borehole hazardous gas flow rate in accordance with BS8485

Project No.:	315075
Client:	Tata Steel UK Ltd
Site:	Project Cronus

In accordance with BS8485 Section 6.3.1 the data presented below are calculations of borehole hazardous gas flow rates (Q_{hg}).

The Q_{hg} can then be used, along with a robust conceptual site model and review of the data collected, to designate a site characteristic (or zone) gas screening value (GSV).

GSVs are used to characterise the potential risk and inform mitigation measures where appropriate.

The assessment below presents calculated Q_{hg} values and compares them directly to Characteristic Situations as presented in BS8485 Table 2.

The ultimate site characteristic GSV (for the site or for individual zones) to inform risk assessment and mitigation measures is detailed in the body of the report, and may be different to the individual calculations below.

The calculations below use peak concentrations and steady state flow to calculate the Q_{hg}.

Characteristic Situation	Hazard potential	GSV
1	Very Low	<0.07
2	Low	<0.7
3	Moderate	<3.5
4	Moderate to High	<15
5	High	<70
6	Very High	>=70

British Standard Institution (BSI) (2019), 'BS 8485:2015+A1:2019. Code of practice for the design of protective measures for methane and carbon dioxide ground gases for new buildings'.

KEY	
Qhg	Borehole hazardous gas flow rate (steady state flow * (peak concentration / 100))
GSV	Gas Screening Value
	GSV / Q_{hg} indicates very low hazard potential
	GSV / Q_{hg} indicates low to moderate hazard potential
	GSV / Q_{hg} indicates moderate or greater hazard potential
	Data exceeds either 1% CH_4, 5% CO_2 or 70 L/hr flow (see BS8485 Table 2)

SUMMARY OF Qhg VALUES PER BOREHOLE, PER MONITORING ROUND

BH NO.	DATE	CH_4 peak %v/v	CH_4 SS %v/v	CO_2 peak %v/v	CO_2 SS %v/v	O_2 min %v/v	Flow SS l/hr	Baro mbar	Q_{hg} CH_4	Q_{hg} CO_2	CS No.
BH01	16/02/2022	85.4	85	6	5.8	0	2.3	1	1.96	0.14	CS3
	17/02/2022	89.2	38.8	6.2	3.1	0.6	0.1	1013	0.09	0.01	CS2
	22/02/2022	91.3	33.1	3.8	1.7	0.4	0.1	1019	0.09	0.00	CS2
	22/02/2022	91.5	91	6.6	6.6	0	1.6	1019	1.46	0.11	CS3
BH02	17/02/2022	16.2	0.6	0.8	0.1	9.2	1	1014	0.16	0.01	CS2
BH03	16/02/2022	3.6	1	0.6	0.2	18.4	0.1	1001	0.00	0.00	CS1
	16/02/2022	82.4	38.6	6.5	3.5	1.2	0.3	1002	0.25	0.02	CS2
BH3 DEEP	04/02/2022	83.3	51	5.9	4.4	1.2	0.6	1013	0.50	0.04	CS2
BH3 SHALLOW	04/02/2022	2.7	1	1.7	0.6	16.8	0	1013	0.00	0.00	CS1
BH04	15/02/2022	0.1	0.1	0.3	0.3	20.8	0.1	1007	0.00	0.00	CS1
	15/02/2022	0	0	0.3	0.1	20.7	0	1006	0.00	0.00	CS1
BH4 DEEP	20/01/2022	0	0	0.1	0.1	20.3	0	1040	0.00	0.00	CS1
BH4 SHALLOW	20/01/2022	0	0	0.1	0	20.6	0	1040	0.00	0.00	CS1
BH05	16/02/2022	4.3	1.7	0.1	0	18.5	0	1000	0.00	0.00	CS1
	16/02/2022	53.2	26	2.2	1	6.3	0	1000	0.00	0.00	CS1
	22/02/2022	2	1.1	0.1	0	19	0	1020	0.00	0.00	CS1
	22/02/2022	53.8	25.8	2.1	0.9	7.1	0.1	1020	0.05	0.00	CS1
	04/03/2022	1.1	0.7	0.1	0	18.6	0	1024	0.00	0.00	CS1
BH08	17/02/2022	91.3	38.1	1	0.9	0.9	0.1	1014	0.09	0.00	CS2
BH10	04/02/2022	0	0	0.7	0.2	19.6	0	1012	0.00	0.00	CS1
	17/02/2022	0	0	0.5	0.2	20.1	0.2	1014	0.00	0.00	CS1
BH11	04/02/2022	0	0	0.7	0.2	20.8	0	1012	0.00	0.00	CS1
	17/02/2022	0	0	0.2	0.1	20.8	0.2	1014	0.00	0.00	CS1
BH12	15/02/2022	36.2	13	7.6	2.8	5.4	0	1006	0.00	0.00	CS1
	15/02/2022	0.5	0.5	0.2	0.2	19.6	0	1014	0.00	0.00	CS1
	04/03/2022	0.3	0.3	0.2	0.2	18.5	-0.3	1024	0.00	0.00	CS1
	04/03/2022	30.7	12.1	4.9	1.9	7.7	-0.2	1024	-0.06	-0.01	CS1
BH12 DEEP	20/01/2022	36.6	14.5	6.9	2.8	4.8	0	1040	0.00	0.00	CS1
BH12 SHALLOW	20/01/2022	0.2	0.2	0.2	0.2	17.9	0	1040	0.00	0.00	CS1
BH13	04/02/2022	0.2	0.2	0.4	0.4	20.3	0.2	1012	0.00	0.00	CS1
	17/02/2022	0.2	0.2	0.4	0.3	19.5	1	1014	0.00	0.00	CS1

WORST-CASE Qhg VALUES PER BOREHOLE

BH NO.	DATE	Maximum CH_4: CH_4 peak %v/v	Maximum CH_4: CH_4 SS %v/v	Maximum CO_2: CO_2 peak %v/v	Maximum CO_2: CO_2 SS %v/v	Min O_2	Max SS Flow	Baro mbar	Maximum Q_{hg}: CH_4	Maximum Q_{hg}: CO_2	CS No.
BH01		91.5	91	6.6	6.6	0	2.3		2.10	0.15	CS3
BH02		16.2	0.6	0.8	0.1	9.2	1		0.16	0.01	CS2
BH03		82.4	38.6	6.5	3.5	1.2	0.3		0.25	0.02	CS2
BH3 DEEP		83.3	51	5.9	4.4	1.2	0.6		0.50	0.04	CS2
H3 SHALLOW		2.7	1	1.7	0.6	16.8	0		0.00	0.00	CS1
BH04		0.1	0.1	0.3	0.3	20.7	0.1		0.00	0.00	CS1
BH4 DEEP		0	0	0.1	0.1	20.3	0		0.00	0.00	CS1
H4 SHALLOW		0	0	0.1	0	20.6	0		0.00	0.00	CS1
BH05		53.8	26	2.2	1	6.3	0.1		0.05	0.00	CS1
BH08		91.3	38.1	1	0.9	0.9	0.1		0.09	0.00	CS2
BH10		0	0	0.7	0.2	19.6	0.2		0.00	0.00	CS1
BH11		0	0	0.7	0.2	20.8	0.2		0.00	0.00	CS1
BH12		36.2	13	7.6	2.8	5.4	0		0.00	0.00	CS1
BH12 DEEP		36.6	14.5	6.9	2.8	4.8	0		0.00	0.00	CS1
I12 SHALLOW		0.2	0.2	0.2	0.2	17.9	0		0.00	0.00	CS1
BH13		0.2	0.2	0.4	0.4	19.5	1		0.00	0.00	CS1

WORST-CASE Qhg CHECK FOR SITE (BS8485 Section 6.3.7.4)

BH NO.	DATE	Maximum CH_4: CH_4 peak %v/v	Maximum CH_4: CH_4 SS %v/v	Maximum CO_2: CO_2 peak %v/v	Maximum CO_2: CO_2 SS %v/v	Min O_2	Max SS Flow	Baro mbar	Maximum Q_{hg}: CH_4	Maximum Q_{hg}: CO_2	CS No
ALL		91.5	91	7.6	6.6	0	2.3		2.10	0.17	CS3

Calculations of borehole hazardous gas flow rate in accordance with BS8485

Project No.:	315531
Client:	Tata Steel
Site:	EAF Project

In accordance with BS8485 Section 6.3.1 the data presented below are calculations of borehole hazardous gas flow rates (Q_{hg}).

The Q_{hg} can then be used, along with a robust conceptual site model and review of the data collected, to designate a site characteristic (or zone) gas screening value (GSV).

GSVs are used to characterise the potential risk and inform mitigation measures where appropriate.

The assessment below presents calculated Q_{hg} values and compares them directly to Characteristic Situations as presented in BS8485 Table 2.

The ultimate site characteristic GSV (for the site or for individual zones) to inform risk assessment and mitigation measures is detailed in the body of the report, and may be different to the individual calculations below.

The calculations below use peak concentrations and steady state flow to calculate the Q_{hg}.

Characteristic Situation	Hazard potential	GSV
1	Very Low	<0.07
2	Low	<0.7
3	Moderate	<3.5
4	Moderate to High	<15
5	High	<70
6	Very High	>=70

British Standard Institution (BSI) (2019), 'BS 8485:2015+A1:2019. Code of practice for the design of protective measures for methane and carbon dioxide ground gases for new buildings'.

KEY	
Qhg	Borehole hazardous gas flow rate (steady state flow * (peak concentration / 100))
GSV	Gas Screening Value
	GSV / Q_{hg} indicates very low hazard potential
	GSV / Q_{hg} indicates low to moderate hazard potential
	GSV / Q_{hg} indicates moderate or greater hazard potential
	Data exceeds either 1% CH_4, 5% CO_2 or 70 L/hr flow (see BS8485 Table 2)

SUMMARY OF Qhg VALUES PER BOREHOLE, PER MONITORING ROUND

BH NO.	DATE	CH_4 peak %v/v	CH_4 SS %v/v	CO_2 peak %v/v	CO_2 SS %v/v	O_2 min %v/v	Flow SS l/hr	Baro mbar	Q_{hg} CH_4	Q_{hg} CO_2	CS No.
BH311	01/08/2024	9.7	9.7	0.1	0.1	15.5	0.4	1011	0.04	0.00	CS1
	09/08/2024	9.1	9.1	0.1	0.1	16.2	0.4	1014	0.04	0.00	CS1
BH322	01/08/2024	0.8	0.8	0	0	16.8	0.7	1011	0.01	0.00	CS1
	09/08/2024	0.5	0.5	0	0	17.8	0.6	1014	0.00	0.00	CS1
	30/09/2024	0.1	0.1	0	0	20.1	0	886	0.00	0.00	CS1
	14/11/2024	4.5	4.5	0.1	0.1	15	0	1032	0.00	0.00	CS1
BH324	01/08/2024	0.2	0.2	0.1	0.1	19.5	0.5	1011	0.00	0.00	CS1
	09/08/2024	0.2	0.2	0.1	0.1	19.5	0.4	1014	0.00	0.00	CS1
	30/09/2024	0	0	0.1	0.1	20.1	0	886	0.00	0.00	CS1
	14/11/2024	0.4	0	0.1	0	20.7	0	1032	0.00	0.00	CS1
BH328	01/08/2024	0.1	0.1	0.1	0.1	19.8	0.2	1011	0.00	0.00	CS1
	09/08/2024	0.1	0.1	0	0	19.5	0.2	1014	0.00	0.00	CS1
	30/09/2024	0	0	0.1	0.1	20.3	0.2	867	0.00	0.00	CS1
	29/10/2024	27.2	27	10.8	10.8	0	0	1023	0.00	0.00	CS1
	14/11/2024	25	24.9	9.6	9.6	0.1	0	1032	0.00	0.00	CS1
BH329	01/08/2024	3.2	3.2	0	0	17.2	0.7	1011	0.02	0.00	CS1
	09/08/2024	3.2	3.2	0	0	17.4	0.4	1014	0.01	0.00	CS1
	30/09/2024	0	0	0.1	0.1	20.3	0	886	0.00	0.00	CS1
	29/10/2024	3.5	3.3	0.2	0.2	16.9	0	1023	0.00	0.00	CS1
	14/11/2024	8	3.3	0.2	0.2	16.7	0	1031	0.00	0.00	CS1

WORST-CASE Qhg VALUES PER BOREHOLE

		Maximum CH_4		Maximum CO_2				Baro	Maximum Q_{hg}		
BH NO.	DATE	CH_4 peak %v/v	CH_4 SS %v/v	CO_2 peak %v/v	CO_2 SS %v/v	Min O_2	Max SS Flow	mbar	CH_4	CO_2	CS No.
BH311		9.7	9.7	0.1	0.1	15.5	0.4		0.04	0.00	CS1
BH322		4.5	4.5	0.1	0.1	15	0.7		0.03	0.00	CS1
BH324		0.4	0.2	0.1	0.1	19.5	0.5		0.00	0.00	CS1
BH328		27.2	27	10.8	10.8	0	0.2		0.05	0.02	CS1
BH329		8	3.3	0.2	0.2	16.7	0.7		0.06	0.00	CS1

WORST-CASE Qhg CHECK FOR SITE (BS8485 Section 6.3.7.4)

		Maximum CH_4		Maximum CO_2				Baro	Maximum Q_{hg}		
BH NO.	DATE	CH_4 peak %v/v	CH_4 SS %v/v	CO_2 peak %v/v	CO_2 SS %v/v	Min O_2	Max SS Flow	mbar	CH_4	CO_2	CS No
ALL		27.2	27	10.8	10.8	0	0.7		0.19	0.08	CS2

This is a summary of the maximum reported concentrations per borehole (or min for oxygen) EXCLUDING data from entirely flooded response zones															
Exploratory position ID	Response zone top (mbgl)	Response zone base (mbgl)	Response zone geological unit	Number of monitoring rounds	Peak methane max (%/vol)	Steady-state methane max (%/vol)	Peak carbon dioxide max (%/vol)	Carbon dioxide steady-state max (%/vol)	Oxygen min (%/vol)	Peak gas flow max (l/hr)	Steady-state gas flow max (l/hr)	Depth to water min (mbgl)	Depth to water max (mbgl)	Atmospheric pressure min (mb)	Atmospheric pressure max (mb)
BH311	10.5	36.5		2	9.7	9.7	0.1	0.1	15.5	0.4	0.4	DRY	DRY	1011	1014
BH322	1	21		4	4.5	4.5	0.1	0.1	15	0.7	0.7	3.12	3.38	886	1032
BH324	1	23		4	0.4	0.2	0.1	0.1	19.5	0.5	0.5	1.26	1.43	886	1032
BH328	8	38		5	27.2	27	10.8	10.8	0	0.2	0.2	10.3	10.6	867	1032
BH329	5	37.5		5	8	3.3	0.2	0.2	16.7	0.7	0.7	10.03	11.18	886	1031