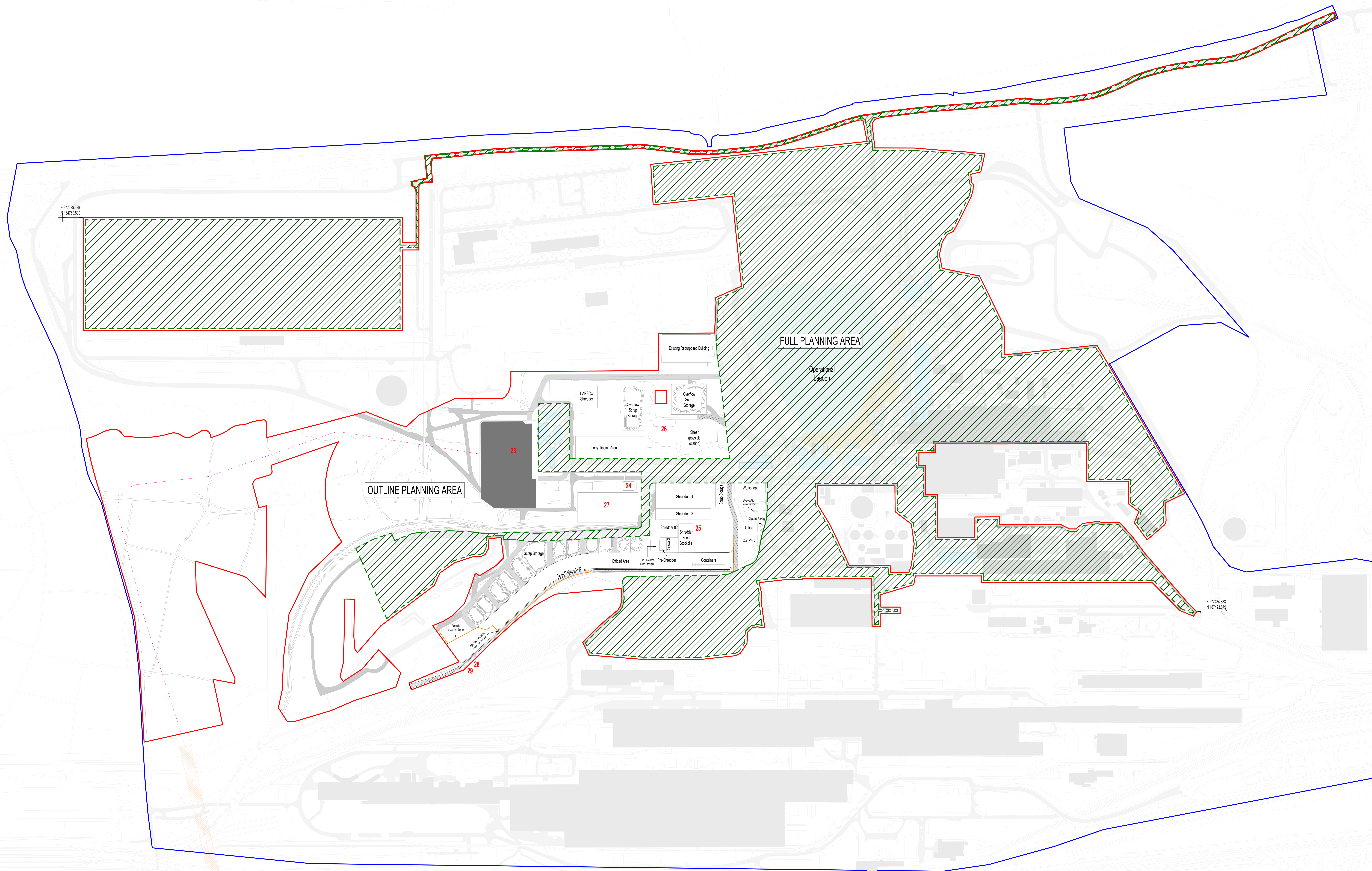




		Outline Scrap - Phase 2			Building Type/Use	Maximum Dimensions		
Name			L	W		H		
Level 1	Scrap	National Grid Compound	P	200m	100m	15m		
		Office Scrap Yard Electrical Building	R	35m	25m	8m		
		Incinerator	B	40m	20m	8m		
		Car Park	E	25m	25m	0m		
		Disabled Car Park	E	3.6m	1.5m	0m		
Level 2	Scrap	Workshops	B	70m	25m	5m		
		Scrap Storage	E	varies	varies	7m		
		Pre-Scraper Feed Stock Pile	E	25m	20m	6m		
		Pre-Scraper	P	12m	11.3m	9m		
		Scrap Feed Stock Pile	E	60m	32m	9m		
Level 3	Scrap	Shredder (Block 01 - Wheel Conveyor)	R	30m	10m	7m		
		Shredder (Block 02 - Hammer Mill)	B	40m	40m	20m		
		Shredder (Block 03 - Air Separation)	B	25m	125m	20m		
		Shredder (Block 04 - Picking & Stacker)	R	60m	125m	20m		
		Acoustic Mitigation Barrier	R	800m	5m	15m		
Level 4	Scrap	Lorry Tipping Area	E	150m	50m	7m		
		HARSCO Shredder	P	50m	50m	7m		
		Shear	P	58.7m	55m	7m		
		Overflow Scrap Bay (1)	E	50m	100m	7m		
		Overflow Scrap Bay (2)	E	80m	68m	7m		
Level 5	Scrap	Existing Reprocessing Building	R	115m	65m	15m		
		Non Ferrous Processing Area	R	67m	125m	13m		
		Scanning Facilities	R	15m	15m	15m		
		Railway Weigh Bridge	R	15m	15m	15m		

Minimum building dimensions to be 0m to indicate not constructed

P06	Acoustic Barrier Amended	15/10/2021
P06	Updated following NPT comments	08/09/2021
P04	Issue to RPT	23/08/2021
P03	Revised Boundary following Client Comments	14/08/2021
P02	Updated following comments from Planning	15/07/2021
P01	Planning Issue	27/06/2021
P00	Initial Issue	20/06/2021
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



CARDIFF 029 2052 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 1

PROJECT No 20007		SCALE @ A0 As indicated	
DRAWING No 86112 REV 200 14-022940-5 ISSUED 02/18/00		1102: Project - Originator - Volume - Level - Type - Rate - Number 1202: Project - Originator - Functional - Special - Form - Discipline - Number Revision: Revision:	REVISION
EAF-LAW-X-X-DR-A-090010		P06	
DO NOT SCALE Any discrepancy or query concerning this drawing should be referred to the Architect Copyright © LAWRY LAMONT Registered Office: Greenmeadow Spine 1, Clareville, Forneyville, CALIFORNIA 95714 Ben De Deo 7378135 FAX Ben De Deo 7347483			

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 (CO₂), methane (CH₄) and oxygen (O₂) in percentage by volume, while hydrogen sulphide (H₂S) 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 consultation 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)

BOREHOLE LOG

Contract: Project Cronus			Client: Tata Steel UK Ltd			Borehole: BH01	
Contract Ref: 315075		Start: 15.10.21	Ground Level (m AOD): ---		National Grid Co-ordinate: E:277486.3 N:186412.6		Sheet: 1 of 2
		End: 19.11.21					

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)					
0.00-0.20										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	
3.00-3.45	1	SPT(c)	N=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)	
6.45-6.56	2	SPT(c)	1/2 for 35mm							Dark grey to light greyish brown slightly silty SAND. Sand is fine and medium.	(3.65)	

Boring Progress and Water Observations						General Remarks	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth		
						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.	
Method Used: Inspection pit + Rotary Cored						All dimensions in metres	Scale: 1:50
Plant Used: Beretta T41						Drilled By: G. Haddock	Logged By: RHorne
						Checked By: JCB	AGS

BOREHOLE LOG

Contract: Project Cronus			Client: Tata Steel UK Ltd			Borehole: BH01		
Contract Ref: 315075		Start: 15.10.21	Ground Level (m AOD): ---		National Grid Co-ordinate: E:277486.3 N:186412.6		Sheet: 2 of 2	
		End: 19.11.21						

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)					
9.65-9.80	1	B	2.1/2 for 50mm							Dark grey to light greyish brown slightly silty SAND. Sand is fine and medium. (stratum copied from 6.00m from previous sheet)	9.65	
										Dark grey to light greyish brown silty SAND. Sand is fine.	(0.95)	
10.50-10.70	3	SPT(c)									10.60	
11.00-11.20	2	D								Soft to firm light blueish grey slightly peaty slightly sandy clayey SILT. Sand is fine. ... 10.60m to 10.80m; soft. ... 11.50m to 12.00m; dark brown fibrous peat.	(1.80)	
12.50-13.00	3	B								Dark brown fibrous locally amorphous PEAT. ... 12.40m to 12.50m; amorphous peat.	(0.70)	
13.40-13.50	4	D								Stiff to firm blueish grey sandy SILT. Sand is fine.	13.10	
										Borehole terminated early due to ground gas encountered during drilling. Rotary borehole terminated at 13.50m depth.	13.50	

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

BOREHOLE LOG

Contract: Project Cronus			Client: Tata Steel UK Ltd		Borehole: BH02
Contract Ref: 315075	Start: 01.11.21 End: 11.11.21	Ground Level (m AOD): ---	National Grid Co-ordinate: E:277282.0 N:186206.8		Sheet: 1 of 4

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)					
1.00-1.00	1	ES	1xT+1xJ+1xV							Dark grey slightly sandy slightly clayey GRAVEL. Sand is fine to coarse. Gravel is angular fine to coarse of slag.	(1.00)	
2.00-2.00	2	ES	1xT+1xJ+1xV							Light brown to greyish brown SAND. Sand is fine and medium.	(4.00)	
3.00-3.00	3	ES	1xT+1xJ+1xV									
4.00-4.00	4	ES	1xT+1xJ+1xV									
5.00-5.00	5	ES	1xT+1xJ+1xV							Grey slightly silty SAND. Sand is fine.	(2.00)	
7.00-8.50	1	SPT	/1,1,1 for 75mm							Grey locally dark grey SAND. Sand is fine and medium.	(1.25)	
7.00-7.23												
7.10-7.10	6	ES	1xT+1xJ+1xV									
8.50-10.00										Grey clayey SAND. Sand is fine and medium.	8.25	
8.60-8.60	7	ES	1xT+1xJ+1xV							Description on next sheet	8.70	

Boring Progress and Water Observations						General Remarks		
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth			
						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.		
Method Used: Inspection pit + Rotary Cored						All dimensions in metres Scale: 1:50		
Plant Used: Beretta T41			Drilled By: G. Haddock		Logged By: RHorne	Checked By: JCB		

BOREHOLE LOG

Contract: Project Cronus			Client: Tata Steel UK Ltd		Borehole: BH02
Contract Ref: 315075	Start: 01.11.21 End: 11.11.21	Ground Level (m AOD): ---	National Grid Co-ordinate: E:277282.0 N:186206.8		Sheet: 2 of 4

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

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

BOREHOLE LOG

Contract: Project Cronus			Client: Tata Steel UK Ltd		Borehole: BH02
Contract Ref: 315075	Start: 01.11.21 End: 11.11.21	Ground Level (m AOD): ---	National Grid Co-ordinate: E:277282.0 N:186206.8		Sheet: 3 of 4

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)					
19.00-20.00 19.00-19.44	5	SPT	5,8/12,12,13,13 for 67mm	87						Firm grey slightly peaty silty CLAY. (stratum copied from 17.70m from previous sheet) ... 18.55m to 18.66m; fibrous peat.	(1.10) 18.80	
22.50-22.95	6	SPT	N=36	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	
25.50-25.87	7	SPT	5,12/13,19,18 for 73mm							Grey slightly silty gravelly SAND. Sand is fine to coarse. Gravel is subangular and subrounded fine and medium of siltstone and sandstone.	(4.30) 26.80	
Description on next sheet												

Boring Progress and Water Observations						General Remarks					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth						
Method Used: Inspection pit + Rotary Cored						All dimensions in metres					
Plant Used: Beretta T41						Scale: 1:50					
Drilled By: G. Haddock						Logged By: RHorne					
Checked By: JCB						Checked By: AGS					

BOREHOLE LOG

Contract:		Client:		Borehole:
Project Cronus		Tata Steel UK Ltd		BH02
Contract Ref:	Start: 01.11.21	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	End: 11.11.21	---	E:277282.0 N:186206.8	4 of 4

Depth (m)	Samples & Testing			Mechanical Log				Backfill & Instru- mentation	Water	Description of Strata	Depth (Thick- ness)	Material Graphic Legend
	No	Type	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)					
										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. <i>(stratum copied from 26.80m from previous sheet)</i>	(5.00)	
										Possible SILTSTONE. Recovered as sandy GRAVEL. Sand is fine to coarse. Gravel is angular of siltstone.	(2.20)	
										Rotary borehole terminated at 34.00m depth.		

Boring Progress and Water Observations						General Remarks
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	
All dimensions in metres						Scale: 1:50
Method Used:	Inspection pit + Rotary Cored		Plant Used:	Beretta T41		Drilled By: G. Haddock Logged By: RHorne Checked By: JCB

BOREHOLE LOG

Contract: Project Cronus			Client: Tata Steel UK Ltd		Borehole: BH03
Contract Ref: 315075	Start: 22.11.21 End: 01.12.21	Ground Level (m AOD): ---	National Grid Co-ordinate: E:277262.0 N:186016.0		Sheet: 1 of 4

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)					
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)	
0.50-1.00	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)	
3.00-3.30	1	SPT	1/1,1,1 for 75mm							Dark grey fine to medium SAND with rare sandstone gravels and cobbles	(1.00)	
3.50	1	ES								Brown silty fine to medium SAND with occasional reeds or seaweed.	(0.50)	
4.50-5.20	3	B								Light grey fine to medium SAND.	(0.70)	
6.00	1	D								Light grey and brown mottled CLAY.	(2.20)	
6.00-6.23	2	SPT	1/1,1 for 75mm							Reddish brown fibrous PEAT horizon with frequent wood inclusions.	(1.10)	
										Soft light grey CLAY ... Occasional wood inclusions at the top of the strata	8.50	

Boring Progress and Water Observations						General Remarks		
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth			
						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		
Method Used: Inspection pit + Rotary Cored						All dimensions in metres Scale: 1:50		
Plant Used: Beretta T41			Drilled By: G. Haddock		Logged By: AGMay	Checked By: JCB 		

BOREHOLE LOG

Contract: Project Cronus			Client: Tata Steel UK Ltd		Borehole: BH03
Contract Ref: 315075	Start: 22.11.21 End: 01.12.21	Ground Level (m AOD): ---	National Grid Co-ordinate: E:277262.0 N:186016.0		Sheet: 2 of 4

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)					
9.00 9.00-9.30	2 3	D SPT	1/1,1,1 for 75mm							Soft light grey CLAY ... Occasional wood inclusions at the top of the strata(<i>stratum copied from 8.50m from previous sheet</i>)	(1.70)	
											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.	(0.90)	
										... Becoming a sandy clay.	11.10	
										Light grey fine to medium SAND	(0.90)	
											12.00	
12.00-13.50 12.00-12.23	4 5	B SPT	1/1,1,1/1,1,1,1 for 75mm							Light grey slightly clayey fine to medium SAND (very little recovery, sloppy sample)	(3.00)	
											15.00	
13.50-15.00 13.50-13.88	5 6	B SPT	N=4									
15.00-15.45	7	SPT	N=5							Soft light grey sandy CLAY with occasional shell fragments.	(1.50)	
											16.50	
16.40 16.50-18.00 16.50-16.64	3 6 8	D B SPT	NP							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.		

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

BOREHOLE LOG

Contract: Project Cronus			Client: Tata Steel UK Ltd		Borehole: BH03
Contract Ref: 315075	Start: 22.11.21 End: 01.12.21	Ground Level (m AOD): ---	National Grid Co-ordinate: E:277262.0 N:186016.0		Sheet: 3 of 4

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)					
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. <i>(stratum copied from 16.50m from previous sheet)</i>		
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									
23.50-24.00	5	D										
23.50-23.90	13	SPT	5,8/13,15,16,6 for 20mm								23.20	
24.00-25.50	9	B										
25.00-25.30	14	SPT	6,10/19,26,3 for 4mm							Stiff grey slightly gravelly CLAY with rare black mottling. Gravels are angular to subrounded fine to medium clay stone.		
26.50-26.83	15	SPT	6,13/16,22,12 for 31mm								(6.60)	

Boring Progress and Water Observations						General Remarks			
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth				
Method Used: Inspection pit + Rotary Cored									
Plant Used: Beretta T41									
Drilled By: G. Haddock									
Logged By: AGMay									
Checked By: JCB									
Scale: 1:50									

BOREHOLE LOG

Contract: Project Cronus			Client: Tata Steel UK Ltd			Borehole: BH03			
Contract Ref: 315075		Start: 22.11.21 End: 01.12.21	Ground Level (m AOD): ---		National Grid Co-ordinate: E:277262.0 N:186016.0			Sheet: 4 of 4	

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)					
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							Possible weathered MUDSTONE. Recovered as sandy gravel. Sand is fine to coarse. Gravel is angular fine to coarse of mudstone lithorelics.	29.80	
										Very weak dark grey MUDSTONE.	(1.30)	
											31.10	
											(1.50)	
										Rotary borehole terminated at 32.60m depth.	32.60	

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

BOREHOLE LOG

Contract: Project Cronus			Client: Tata Steel UK Ltd		Borehole: BH04
Contract Ref: 315075	Start: 13.10.21 End: 20.10.21	Ground Level (m AOD): ---	National Grid Co-ordinate: E:277547.3 N:185924.7		Sheet: 1 of 3

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)					
1.00-1.18	1	SPT(c)	17,8/38,12 for 11mm							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. 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 clinker and slag. Cobbles are angular of slag (<30mm x 65mm x 80mm). MADE GROUND: Recovered as COBBLES. Cobbles are sub-angular of slag (<50mm x 75mm x 95mm). 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 clinker and slag. Cobbles are angular of slag (<40mm x 75mm x 80mm).	0.20 (1.30) 1.50 (0.50) 2.00 (1.60) 3.60	
4.00-5.00 4.00-4.15	2	SPT	1/,1 for 75mm							Soft to firm grey locally bluish grey with black speckling slightly peaty silty CLAY. With mild to strong hydrocarbon odour.	(1.40)	
4.00-4.00 4.00	2	ES PID	1xT+1xJ+1xV 1.8ppm								5.00	
7.00-8.50 7.00-7.23	3	SPT	1/,1,2 for 75mm							Soft dark brown fibrous PEAT. (From spts, no recovery)	(2.00)	
7.50-7.50 7.50	3	ES PID	1xT+1xJ+1xV 6.4ppm							ASSUMED ZONE OF CORE LOSS.	(0.80)	VOID
8.50-10.00 8.60-8.60 8.60	4	ES PID	1xT+1xJ+1xV 2.0ppm							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

- Position checked with Ground Penetrating Radar, CAT and Genny prior to excavation.
- Inspection pit hand dug to 1.2m depth.
- 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.
- Groundwater strike encountered at 2.00m and 19.00m and rising to 2.00m

All dimensions in metres

Scale:

1:50

Method Used:

Inspection pit + Rotary Cored

Plant Used:

Beretta T41

Drilled By:

G. Haddock

Logged By:

RHorne

Checked By:

JCB AGS

BOREHOLE LOG

Contract: Project Cronus			Client: Tata Steel UK Ltd		Borehole: BH04
Contract Ref: 315075	Start: 13.10.21 End: 20.10.21	Ground Level (m AOD): ---	National Grid Co-ordinate: E:277547.3 N:185924.7		Sheet: 2 of 3

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)					
9.20				93						Soft to firm blueish grey slightly peaty to peaty clayey SILT. With hydrocarbon odour. . . . 9.20m to 10.60m; peaty.		
10.00-11.50	4	SPT	1/,1,2,1/,1 for 75mm							. . . 10.00m to 10.35m; assumed zone of core loss.	(1.80)	
10.40-10.40	5	ES PID	1xT+1xJ+1xV 0.9ppm	77								
11.50-13.00										Soft to firm grey slightly sandy SILT. Sand is fine.	(0.50)	
11.90-11.90	6	ES PID	1xT+1xJ+1xV 0.0ppm	80						Soft to firm blueish grey SILT. . . . 11.50m to 11.80m; assumed zone of core loss.	(1.30)	
13.00-14.50	5	SPT	N=4							Soft to firm grey slightly peaty clayey SILT.	(1.20)	
13.50-13.50	7	ES PID	1xT+1xJ+1xV 0.0ppm	100								
14.50-14.50	8	ES PID	1xT+1xJ+1xV 0.0ppm	100						Soft to firm dark grey slightly peaty slightly sandy SILT. Sand is fine.	(0.50)	
15.00-16.20	6	SPT	N=35	90						Soft grey slightly gravelly sandy SILT. Sand is fine. Gravel is angular fine and medium of siltstone lithorelicts.	(0.50)	
16.20-17.50				50						Medium dense greenish grey sandy silty fine to coarse angular to subrounded GRAVEL of mudstone and sandstone.	(0.90)	
17.50-18.50	7	SPT	N=44	0						Firm greenish grey slightly sandy gravelly CLAY. Sand is fine. Gravels are fine to coarse subangular to rounded mudstone and sandstone.	(2.30)	

Boring Progress and Water Observations						General Remarks			
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth				
						after 20 minutes.			
Method Used: Inspection pit + Rotary Cored						All dimensions in metres		Scale: 1:50	
Plant Used: Beretta T41			Drilled By: G. Haddock		Logged By: RHorne		Checked By: JCB		

BOREHOLE LOG

Contract: Project Cronus			Client: Tata Steel UK Ltd		Borehole: BH04
Contract Ref: 315075	Start: 13.10.21 End: 20.10.21	Ground Level (m AOD): ---	National Grid Co-ordinate: E:277547.3 N:185924.7		Sheet: 3 of 3

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)					
18.50-20.00				0						Firm greenish grey slightly sandy SILT. (stratum copied from 16.20m from previous sheet)	18.50	x x x x x
				0						Medium dense greenish grey sandy silty fine to coarse angular to subrounded GRAVEL of mudstone and sandstone.	(2.50)	
20.00-21.50				0								
21.00-21.45	8	SPT(c)	N=28	0						Firm greenish grey slightly sandy gravelly SILT.	21.00	x x x x x
21.50-23.00				0								x x x x x
23.00-24.50				0							(4.70)	x x x x x
24.00-24.41	9	SPT	7,8/10,14,16,10 for 36mm	0								x x x x x
										Possible weathered SILTSTONE. Recovered as gravelly SILT. Gravels are fine and medium angular of siltstone lithorelics.	(0.70)	x x x x x
										Rotary borehole terminated at 26.40m due to SPT refusal on rockhead.	26.40	x x x x x

Boring Progress and Water Observations						General Remarks			
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth				
Method Used: Inspection pit + Rotary Cored						All dimensions in metres			
Plant Used: Beretta T41						Scale: 1:50			
Drilled By: G. Haddock						Logged By: RHorne			
Checked By: JCB						Checked By: AGS			

BOREHOLE LOG

Contract: Project Cronus			Client: Tata Steel UK Ltd		Borehole: BH05
Contract Ref: 315075	Start: 10.11.21 End: 26.01.22	Ground Level (m AOD): ---	National Grid Co-ordinate: E:277894.0 N:185891.0		Sheet: 1 of 3

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)					
3.45-3.90	1	SPT(c)	N=12							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)	
										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)	
6.45-6.68	2	SPT(c)	1/1,1 for 75mm							Soft grey slightly sandy silty CLAY.	(1.50)	
										Soft grey sandy SILT.	(3.00)	

Boring Progress and Water Observations						General Remarks		
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth			
						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.		
Method Used: Inspection pit + Rotary Cored						All dimensions in metres Scale: 1:50		
Plant Used: Beretta T41			Drilled By: CJA		Logged By: RHorne	Checked By: JCB		

BOREHOLE LOG

Contract: Project Cronus			Client: Tata Steel UK Ltd			Borehole: BH05		
Contract Ref: 315075		Start: 10.11.21 End: 26.01.22	Ground Level (m AOD): ---	National Grid Co-ordinate: E:277894.0 N:185891.0			Sheet: 2 of 3	

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)					
										Soft to firm blueish grey slightly sandy peaty CLAY SILT.	(2.00)	
										Soft brown psuedo-fibrous clayey PEAT.	(0.50)	
										Soft to firm blueish grey slightly sandy clayey SILT.	(0.50)	
										Grey sandy clayey GRAVEL. Sand is fine to coarse. Gravel is angular to subrounded fine to coarse of sandstone and siltstone.	(1.00)	
										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)	
										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						General Remarks
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	

BOREHOLE LOG

Contract: Project Cronus			Client: Tata Steel UK Ltd			Borehole: BH05			
Contract Ref: 315075		Start: 10.11.21		Ground Level (m AOD): ---		National Grid Co-ordinate: E:277894.0 N:185891.0		Sheet: 3 of 3	
End: 26.01.22									

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)					
										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)	20.00	
										Rockhead not encountered. Rotary and Cable Percussion borehole terminated at 20.00m.		

Boring Progress and Water Observations						General Remarks	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth		
Method Used: Inspection pit + Rotary Cored						Plant Used: Beretta T41	
Drilled By: CJA						Logged By: RHorne	
Checked By: JCB						Scale: 1:50	

BOREHOLE LOG

Contract: Project Cronus			Client: Tata Steel UK Ltd		Borehole: BH08
Contract Ref: 315075	Start: 13.01.22 End: 18.01.22	Ground Level (m AOD): ---	National Grid Co-ordinate: E:278238.0 N:185582.0		Sheet: 1 of 3

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

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)	
									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.
Method Used: Inspection pit + Cable Percussion						Plant Used: Dando 3000			All dimensions in metres Scale: 1:50
Drilled By: Phil Chappel						Logged By: CLewis			Checked By: JCB 

BOREHOLE LOG

Contract: Project Cronus			Client: Tata Steel UK Ltd		Borehole: BH08
Contract Ref: 315075	Start: 13.01.22 End: 18.01.22	Ground Level (m AOD): ---	National Grid Co-ordinate: E:278238.0 N:185582.0		Sheet: 2 of 3

Depth (m)	Samples & Testing			Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
	No	Type	Results					
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. <i>(stratum copied from 7.50m from previous sheet)</i>		
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.	10.20	
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				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.	14.80	
15.00-15.45	21	SPT	N=29				(1.20)	
16.00-16.60	22	B				Grey slightly clayey sandy GRAVEL. Sand is fine to coarse. Gravel is subangular and subrounded fine to coarse of sandstone and siltstone.	16.00	
16.60-16.99	23	SPT	7,9/13,13,16,8 for 15mm				(2.10)	
17.60-18.00	24	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)	
									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.
Method Used: Inspection pit + Cable Percussion						Plant Used: Dando 3000			All dimensions in metres
Drilled By: Phil Chappel						Logged By: CLewis			Scale: 1:50
Checked By: JCB						Checked By: JCB			

BOREHOLE LOG

Contract:			Client:		Borehole:
Project Cronus			Tata Steel UK Ltd		BH08
Contract Ref:	Start: 13.01.22	Ground Level (m AOD):	National Grid Co-ordinate:		Sheet:
315075	End: 18.01.22	---	E:278238.0 N:185582.0		3 of 3

Depth (m)	Samples & Testing			Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
	No	Type	Results					
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				19.10	
Cable Percussion borehole terminated at 19.10m depth.								

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

BOREHOLE LOG

Contract: Project Cronus			Client: Tata Steel UK Ltd		Borehole: BH10
Contract Ref: 315075	Start: 10.01.22 End: 14.01.22	Ground Level (m AOD): ---	National Grid Co-ordinate: E:277936.7 N:185013.4		Sheet: 1 of 3

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)					
0.50	1	ES	1xT, 1xJ, 1xV							Grass followed by dark brown slightly sandy silty CLAY with many rootlets. (TOPSOIL) Soft to firm greenish grey clayey SILT.	0.40	
1.00-1.23	1	SPT	/1,1,1 for 75mm									
1.00	2	D										
1.50	3	ES	1xT, 1xJ, 1xV									
2.00-2.15	2	SPT	/1,1,1/1,1 for 75mm									
2.00	4	D										
2.60	5	D										
3.60	6	D										
4.00-4.30	3	SPT	/1,1,1/1,1/1,1,1 for 75mm									
4.60	7	D										
5.50-5.95	4	SPT	N=36									
6.90	8	D										
7.00-7.45	5	SPT	N=26									
8.50-8.95	6	SPT	N=25									

Boring Progress and Water Observations						General Remarks			
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	- Position checked with Ground Penetrating Radar, CAT and Genny prior to excavation. - Inspection pit hand dug to 1.2m depth. - 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. - Groundwater seepage encountered at 0.80m.			
Method Used: Inspection pit + Dynamic sampling + Rotary Core						All dimensions in metres		Scale: 1:50	
Plant Used: Beretta T41			Drilled By: G.Haddock		Logged By: CLewis		Checked By: JCB		

BOREHOLE LOG

Contract: Project Cronus			Client: Tata Steel UK Ltd		Borehole: BH10
Contract Ref: 315075	Start: 10.01.22 End: 14.01.22	Ground Level (m AOD): ---	National Grid Co-ordinate: E:277936.7 N:185013.4		Sheet: 2 of 3

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)					
9.00	9	D	N=20	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. <i>(stratum copied from 8.20m from previous sheet)</i>	(3.30)	
10.00-10.45	7	SPT										
10.50	10	D										
11.50-11.85	8	SPT	17,8/17,10,12,1 for 21mm	Window run 65mm dia (95% rec)						Firm grey sandy clayey SILT.	11.50	
11.60	11	D										
12.80	12	D	N=32	Window run 65mm dia (80% rec)						Firm grey sandy gravelly SILT. Gravels are fine to coarse subangular to rounded sandstone and mudstone.	(0.70)	
13.00-13.45	9	SPT										
			N=34	Window run 65mm dia (0% rec)						Medium dense greyish brown gravelly coarse SAND.	12.60	
14.50-14.95	10	SPT										
			N=43	Window run 65mm dia (0% rec)						Firm grey sandy gravelly SILT. Gravels are fine to coarse subangular to rounded sandstone and mudstone.	(7.40)	
16.00-16.45	11	SPT										
17.50-17.95	12	SPT	N=46	Window run 65mm dia (0% rec)								

Boring Progress and Water Observations						General Remarks						
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth							
						All dimensions in metres		Scale: 1:50				
Method Used: Inspection pit + Dynamic sampling + Rotary Coring			Plant Used: Beretta T41			Drilled By: G.Haddock		Logged By: CLewis		Checked By: JCB		

BOREHOLE LOG

Contract: Project Cronus			Client: Tata Steel UK Ltd		Borehole: BH10
Contract Ref: 315075	Start: 10.01.22 End: 14.01.22	Ground Level (m AOD): ---	National Grid Co-ordinate: E:277936.7 N:185013.4		Sheet: 3 of 3

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)					
19.00-19.08	13	SPT	NP	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)		
20.60-22.00				Window run 65mm dia (0% rec)							20.50	
22.00-23.50	13	D		100	80	30				Weak moderate strong occasionally friable anthracite COAL with occasional pyrite.	(3.00)	
22.10				100	70	40					23.50	
Rotary borehole terminated at 23.50m depth.												

Boring Progress and Water Observations						General Remarks			
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth				
Method Used: Inspection pit + Dynamic sampling +			Plant Used: Beretta T41			Drilled By: G.Haddock	Logged By: CLewis	Checked By: JCB	AGS

Contract: Project Cronus			Client: Tata Steel UK Ltd		Borehole: BH11
Contract Ref: 315075	Start: 04.01.22 End: 09.01.22	Ground Level (m AOD): ---	National Grid Co-ordinate: E:277861.0 N:185422.0		Sheet: 1 of 3

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)					
0.50	1	ES	1xT, 1xJ, 1xV							Grass followed by dark brown slightly sandy silty CLAY with many rootlets. (TOPSOIL) Soft brown mottled grey silty CLAY.	0.40	
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)		
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									
4.00-4.30	3	SPT	1/1,1,1,1,2,2 for 75mm									
4.70	6	D										
										Window run 65mm dia (80% rec)		
5.50-5.88	4	SPT	1,1/1,1,1 for 75mm									
										Window run 65mm dia (90% rec)		
7.00-7.15	5	SPT	1,1/1,1,1,1,1 for 75mm									
7.50-8.00	7	B										
										Window run 65mm dia (100% rec)		
8.50-8.95	6	SPT	N=20									
										Window run 65mm dia (95% rec)		

Boring Progress and Water Observations						General Remarks					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth						
						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					
Method Used: Inspection pit + Dynamic sampling + Rotary Corer						All dimensions in metres			Scale: 1:50		
Plant Used: Beretta T41			Drilled By: G.Haddock			Logged By: CLewis			Checked By: JCB		

BOREHOLE LOG

Contract: Project Cronus			Client: Tata Steel UK Ltd		Borehole: BH11
Contract Ref: 315075	Start: 04.01.22 End: 09.01.22	Ground Level (m AOD): ---	National Grid Co-ordinate: E:277861.0 N:185422.0		Sheet: 2 of 3

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)					
9.50	8	D								Medium dense grey gravelly silty fine to coarse SAND. Gravels are fine to coarse angular to rounded sandstone and mudstone. <i>(stratum copied from 7.00m from previous sheet)</i>		
10.00-10.45 10.00-10.80	7 9	SPT B	N=32									
11.50-11.95	8	SPT	N=25							Soft to firm greyish brown sandy gravelly SILT. Gravels are fine to coarse subangular to rounded sandstone and mudstone.		
13.00-13.33	9	SPT	5,9/15,20,15 for 32mm									
14.50-14.80	10	SPT	6,8/18,27,5 for 4mm									
16.00-16.12	11	SPT	8,17/50 for 22mm									
17.50-17.68	12	SPT	19,6/39,11 for 18mm									

Boring Progress and Water Observations						General Remarks		
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth			
						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:	Inspection pit + Dynamic sampling + Rotary Corer			Plant Used:	Beretta T41	Drilled By:	G.Haddock	Logged By: CLewis Checked By: JCB 

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)						
19.00-19.11	13	SPT	NP	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. <i>(stratum copied from 10.80m from previous sheet)</i>			
20.60-22.00				Window run 65mm dia (0% rec)							20.60		
20.60-20.69	14	SPT	NP	95	80	0				Strong grey MUDSTONE.			
22.00-23.50				100	95	10				Gravel band			
										Gravel band	(2.90)		
										Gravel band	23.50		
										Rotary borehole terminated at 23.50m.			

Boring Progress and Water Observations						General Remarks									
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth										
Method Used: Inspection pit + Dynamic sampling + Rotary Coring						Plant Used: Beretta T41		Drilled By: G.Haddock		Logged By: C.Lewis		Checked By: JCB			

BOREHOLE LOG

Contract: Project Cronus			Client: Tata Steel UK Ltd			Borehole: BH12		
Contract Ref: 315075		Start: 13.12.21	Ground Level (m AOD): ---		National Grid Co-ordinate: E:277590.0 N:185693.0		Sheet: 1 of 3	
		End: 13.12.21						

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)					
										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)	
										MADE GROUND. Dark grey slightly sandy gravelly CLAY. Sand is fine to coarse. Gravel is angular to subrounded fine to coarse of slag.	2.00	
										MADE GROUND. Dark grey slightly clayey sandy GRAVEL. Sand is fine to coarse. Gravel is angular to subrounded fine to coarse of slag.	2.15	
2.70-2.70	1	ES PID	1xT+1xJ+1xV 0.5ppm								(0.95)	
3.10-3.50	4	B									3.10	
3.70-3.70	2	ES PID	1xT+1xJ+1xV 0.1ppm									
3.70-3.80	3	D									(2.40)	
5.00-5.30	1	SPT	1/1,1,2 for 75mm								5.50	
6.00-6.00	5	D								Soft blueish grey CLAY.	(1.00)	
											6.50	
7.00-7.50	6	B								Soft to firm blueish grey peaty CLAY. . . . 6.55m to 6.70m; brown psuedo-fibrous peat.	6.95	
										Dark brown slightly clayey psuedo-fibrous PEAT. . . . 7.75m to 7.90m: clayey peat.	(0.95)	
8.50-8.80	2	SPT	1/1,1,2,1/1,1,1 for 75mm							Soft blueish grey slightly peaty CLAY.	7.90	

Boring Progress and Water Observations						General Remarks		
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth			
						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.		
Method Used: Rotary Cored						All dimensions in metres Scale: 1:50		
Plant Used: Beretta T41			Drilled By: G. Haddock		Logged By: RHorne	Checked By: JCB		

BOREHOLE LOG

Contract: Project Cronus			Client: Tata Steel UK Ltd		Borehole: BH12
Contract Ref: 315075	Start: 13.12.21 End: 13.12.21	Ground Level (m AOD): ---	National Grid Co-ordinate: E:277590.0 N:185693.0		Sheet: 2 of 3

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)					
9.00-9.00	7	D								Soft blueish grey slightly peaty CLAY. (stratum copied from 7.90m from previous sheet)	(2.40)	
										... 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)	
										... 11.50m to 11.80m; soft clay.		
11.50-11.95	4	SPT	N=5								12.20	
12.00-12.00	9	D								Soft blueish grey silty CLAY.		
											(1.90)	
13.00-13.23	5	SPT	1/1,1/1,1,1 for 75mm								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.	(3.00)	
16.00-16.45	7	SPT	N=48								17.50	
17.50-17.81	8	SPT	5,13/21,22,7 for 11mm							Description on next sheet		

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

BOREHOLE LOG

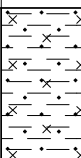
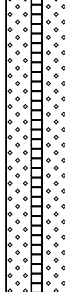
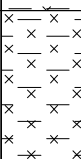
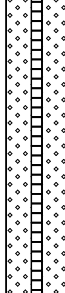
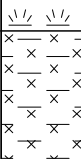
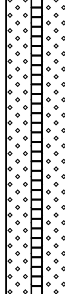
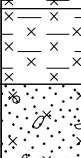
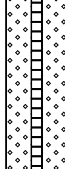
Contract: Project Cronus			Client: Tata Steel UK Ltd		Borehole: BH12
Contract Ref: 315075	Start: 13.12.21 End: 13.12.21	Ground Level (m AOD): ---	National Grid Co-ordinate: E:277590.0 N:185693.0		Sheet: 3 of 3

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)					
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									
22.00-22.10	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)	
24.50-24.82	12	SPT	5,9/16,25,9 for 17mm							COAL.	(0.50)	
26.50-26.80	13	SPT	7,10/22,28 for 75mm							Extremely weak to very weak grey MUDSTONE.	(2.30)	
Rotary borehole terminated at 26.80m depth.											26.80	

Boring Progress and Water Observations						General Remarks			
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth				
Method Used: Rotary Cored						All dimensions in metres			
Plant Used: Beretta T41						Scale: 1:50			
Drilled By: G. Haddock						Logged By: RHorne			
Checked By: JCB						Checked By: AGS			

BOREHOLE LOG

Contract: Project Cronus			Client: Tata Steel UK Ltd		Borehole: BH13
Contract Ref: 315075	Start: 10.01.22 End: 13.01.22	Ground Level (m AOD): ---	National Grid Co-ordinate: E:278445.0 N:185460.0		Sheet: 1 of 2

Depth (m)	Samples & Testing			Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
	No	Type	Results					
1.00-1.45	1	SPT	N=22			Grass followed by dark grey GRAVEL and COBBLES of slag and ballast. (TOPSOIL)	(1.00)	
						Very soft grey slightly gravelly clayey SILT. Occasional slag and ballast.	1.00	
1.50	2	D				Very soft to soft greenish grey clayey SILT.	(0.50)	
2.50	3	B					(2.50)	
3.00-3.15	4	SPT	1/1 for 75mm				4.00	
4.00	5	B				Soft to firm grey clayey SILT.	(0.60)	
4.50-4.95	6	SPT	N=7			Spongy pseudofibrous dark brown PEAT.	4.60	
							(0.90)	
5.50	7	B				Soft grey clayey SILT with occasional organic remains/fibres.	5.50	
5.50-5.95	8	SPT	N=5			Very soft grey clayey SILT.	(0.50)	
							6.00	
7.00	9	B					(3.70)	
7.50-7.58	10	SPT	NP					
8.50	11	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)	
									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.
Method Used: Inspection pit + Cable Percussion						All dimensions in metres			Scale: 1:50
Plant Used: Unknown						Drilled By: Phil Chappel			Logged By: CLewis
									Checked By: JCB

BOREHOLE LOG

Contract: Project Cronus			Client: Tata Steel UK Ltd		Borehole: BH13
Contract Ref: 315075	Start: 10.01.22 End: 13.01.22	Ground Level (m AOD): ---	National Grid Co-ordinate: E:278445.0 N:185460.0		Sheet: 2 of 2

Depth (m)	Samples & Testing			Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
	No	Type	Results					
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				15.90	
14.50	20	B						
15.10-15.55	21	SPT	N=29				(1.00)	
15.60	22	B					16.90	
15.90	23	B				Weak becoming strong thinly laminated weathered MUDSTONE.		
16.60-16.85	24	SPT	3,5/15,35 for 20mm					
						Cable Percussion borehole terminated at 16.90m due to sampler and SPT refusal.		

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)	
									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.
Method Used: Inspection pit + Cable Percussion						Plant Used: Unknown			All dimensions in metres Scale: 1:50
Drilled By: Phil Chappel						Logged By: CLewis			Checked By: JCB 

SONIC DRILLING LOG

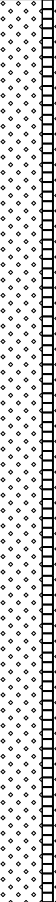
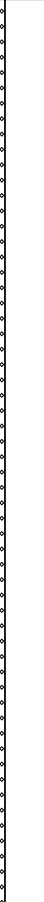
Contract: Project Cronus			Client: Tata Steel UK Ltd		Borehole: BH201
Contract Ref: 315075	Start: 06.04.22 End: 06.04.22	Ground Level (m AOD): 6.02	National Grid Co-ordinate: E:277419.7 N:185839.6		Sheet: 1 of 2

Depth (m)	Samples & Testing			Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
	No	Type	Results					
1.60 1.60	1	ES PID	1xT+1xJ+1xV 4.0ppm			MADE GROUND. Grass over black slightly gravelly SAND. Sand is fine. Gravel is angular and subangular fine and medium of abundant slag. 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.	0.15 (1.25) 1.40	
3.90 3.90	2	ES PID	1xT+1xJ+1xV 17.0ppm			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) 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						General Remarks	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth		
						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: Inspection pit + Sonic drilling	Plant Used: Sonic Drilling Rig			Drilled By: Ervin Demha	Logged By: RHorne	Checked By: JCB	

SONIC DRILLING LOG

Contract:		Client:		Borehole:
Project Cronus		Tata Steel UK Ltd		BH201
Contract Ref:	Start: 06.04.22	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	End: 06.04.22	6.02	E:277419.7 N:185839.6	2 of 2

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

Boring Progress and Water Observations						General Remarks			
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth				
						All dimensions in metres Scale: 1:50			
Method Used:	Inspection pit + Sonic drilling		Plant Used:	Sonic Drilling Rig		Drilled By: Ervin Demha	Logged By: RHorne	Checked By: <i>JCB</i>	

SONIC DRILLING LOG

Contract: Project Cronus			Client: Tata Steel UK Ltd		Borehole: BH202
Contract Ref: 315075	Start: 11.04.22 End: 11.04.22	Ground Level (m AOD): 6.67	National Grid Co-ordinate: E:277390.7 N:185985.2		Sheet: 1 of 2

Depth (m)	Samples & Testing			Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
	No	Type	Results					
6.00 6.00	1	ES PID	1xT+1xJ+1xV 250.0ppm			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 slightly peaty CLAY. With very strong hydrocarbon odour and slight sheen.	(2.20) 7.20	
7.50 7.50	2	ES PID	1xT+1xJ+1xV 300.0ppm			Soft brown fibrous PEAT. With very strong hydrocarbon odour.	(1.80) 9.00	

Boring Progress and Water Observations						General Remarks	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth		
						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: Inspection pit + Sonic drilling	Plant Used: Sonic Drilling Rig		Drilled By: Ervin Demha	Logged By: RHorne	Checked By: JCB		

SONIC DRILLING LOG

Contract: Project Cronus			Client: Tata Steel UK Ltd		Borehole: BH202
Contract Ref: 315075	Start: 11.04.22 End: 11.04.22	Ground Level (m AOD): 6.67	National Grid Co-ordinate: E:277390.7 N:185985.2		Sheet: 2 of 2

Depth (m)	Samples & Testing			Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
	No	Type	Results					
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)	
10.50 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	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			Sonic Borehole terminated at 16.50m.	16.50	

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

SONIC DRILLING LOG

Contract: Project Cronus			Client: Tata Steel UK Ltd		Borehole: BH203
Contract Ref: 315075	Start: 13.04.22 End: 13.04.22	Ground Level (m AOD): 6.62	National Grid Co-ordinate: E:277466.1 N:186099.3		Sheet: 1 of 2

Depth (m)	Samples & Testing			Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
	No	Type	Results					
2.00 2.00	1	ES PID	1xT+1xJ+1xV 3.2ppm			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. MADE GROUND. Possible CONCRETE.	(0.50) 0.50	
							(1.00)	
						MADE GROUND. Light grey slight clayey slightly gravelly SAND. Sand is fine and medium. Gravel is angular fine and medium of slag and brick.	1.50	
							1.90	
2.00 2.00						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	
4.00 4.00	3	ES PID	1xT+1xJ+1xV 0.5ppm			Soft dark grey slightly sandy clayey SILT. Sand is fine. With occasional decaying rootless (1mm x 8mm).	(0.50)	
						Soft dark grey silty CLAY.	4.10	
							(0.70)	
							4.80	
6.00 6.00	4	ES PID	1xT+1xJ+1xV 0.2ppm			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	
						Soft dark brown psuedo-fibrous PEAT.	(1.00)	
							8.90	

Boring Progress and Water Observations						General Remarks	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth		
						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: Inspection pit + Sonic drilling	Plant Used: Sonic Drilling Rig			Drilled By: Ervin Demha	Logged By: RHorne	Checked By: JCB	

SONIC DRILLING LOG

Contract: Project Cronus			Client: Tata Steel UK Ltd		Borehole: BH203
Contract Ref: 315075	Start: 13.04.22 End: 13.04.22	Ground Level (m AOD): 6.62	National Grid Co-ordinate: E:277466.1 N:186099.3		Sheet: 2 of 2

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

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

SONIC DRILLING LOG

Contract: Project Cronus			Client: Tata Steel UK Ltd		Borehole: BH204
Contract Ref: 315075	Start: 20.04.22 End: 20.04.22	Ground Level (m AOD): 7.07	National Grid Co-ordinate: E:277377.0 N:186087.2		Sheet: 1 of 2

Depth (m)	Samples & Testing			Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
	No	Type	Results					
1.40 1.40	1	ES PID	1xT+1xJ+1xV 103.0ppm			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	
1.40 1.40						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	
4.60 4.60	2	ES PID	1xT+1xJ+1xV 1.8ppm			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						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						General Remarks		
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth			
						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:	Inspection pit + Sonic drilling		Plant Used:	Sonic Drilling Rig		Drilled By:	Ervin Demha	Logged By: RHorne
						Checked By:	JCB	AGS

SONIC DRILLING LOG

Contract: Project Cronus			Client: Tata Steel UK Ltd		Borehole: BH204
Contract Ref: 315075	Start: 20.04.22 End: 20.04.22	Ground Level (m AOD): 7.07	National Grid Co-ordinate: E:277377.0 N:186087.2		Sheet: 2 of 2

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

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

SONIC DRILLING LOG

Contract: Project Cronus			Client: Tata Steel UK Ltd		Borehole: BH205
Contract Ref: 315075	Start: 19.04.22 End: 19.04.22	Ground Level (m AOD): 7.47	National Grid Co-ordinate: E:277465.9 N:186292.0		Sheet: 1 of 2

Depth (m)	Samples & Testing			Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
	No	Type	Results					
						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						General Remarks	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth		
						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: Inspection pit + Sonic drilling	Plant Used: Sonic Drilling Rig		Drilled By: Ervin Demha	Logged By: RHorne	Checked By: JCB		

SONIC DRILLING LOG

Contract:		Client:		Borehole:
Project Cronus		Tata Steel UK Ltd		BH205
Contract Ref:	Start: 19.04.22	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	End: 19.04.22	7.47	E:277465.9 N:186292.0	2 of 2

Depth (m)	Samples & Testing			Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
	No	Type	Results					
10.00 10.00	3	ES PID	1xT+1xJ+1xV 0.3ppm			Firm grey CLAY. With occasional shell fragments (<3mm x 5mm) <i>(stratum copied from 8.90m from previous sheet)</i>	(0.90) 9.80	
						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						General Remarks							
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth								
All dimensions in metres						Scale:		1:50					
Method Used:	Inspection pit + Sonic drilling		Plant Used:	Sonic Drilling Rig		Drilled By:	Ervin Demha		Logged By:	RHorne	Checked By:	JCB	AGS

SONIC DRILLING LOG

Contract:		Client:		Borehole:
Project Cronus		Tata Steel UK Ltd		BH206
Contract Ref:	Start: 12.04.22	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	End: 12.04.22	7.14	E:277625.5 N:186190.9	1 of 2

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

Boring Progress and Water Observations						General Remarks
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	
Method Used: Inspection pit + Sonic drilling						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.
Plant Used: Sonic Drilling Rig						
Drilled By: Grant Goodwin			Logged By: RHorne			Checked By: JCB
						

SONIC DRILLING LOG

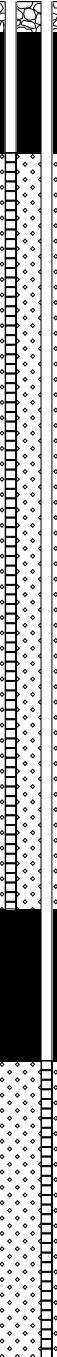
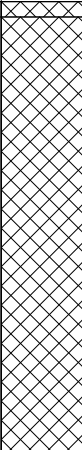
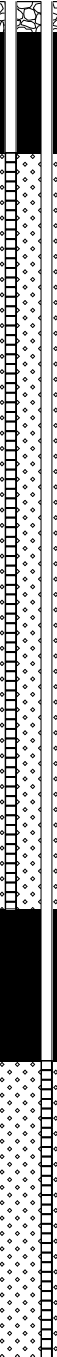
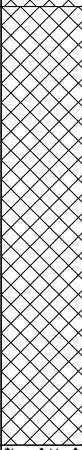
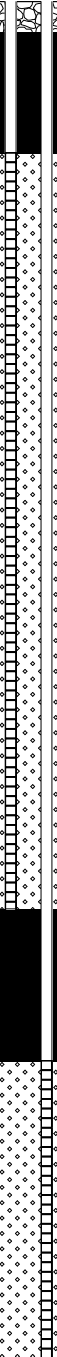
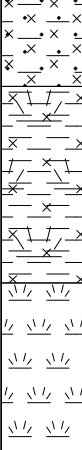
Contract: Project Cronus			Client: Tata Steel UK Ltd		Borehole: BH206
Contract Ref: 315075	Start: 12.04.22 End: 12.04.22	Ground Level (m AOD): 7.14	National Grid Co-ordinate: E:277625.5 N:186190.9		Sheet: 2 of 2

Depth (m)	Samples & Testing			Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
	No	Type	Results					
						Grey to blueish grey slightly silty to silty SAND. With occasional shell fragments (<2mm x 8mm x 10mm). ... 8.70m to 9.00m; green slightly silty glauconitic sand.(stratum copied from 8.70m from previous sheet) ... 9.30m to 9.70m; silty	(2.30)	
						... 10.50m to 10.80m; silty. ... 10.50m to 11.00m; peaty.	11.00	
						Soft dark brown slightly clayey psuedo-fibrous PEAT.	(0.90)	
						Soft grey peaty CLAY.	11.90	
							(0.60)	
						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.	12.50	
							(1.10)	
						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).	13.60	
							(1.40)	
						Sonic borehole terminated at 15.00m.	15.00	

Boring Progress and Water Observations						General Remarks
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	
						</

SONIC DRILLING LOG

Contract: Project Cronus			Client: Tata Steel UK Ltd		Borehole: BH207
Contract Ref: 315075	Start: 20.04.22 End: 20.04.22	Ground Level (m AOD): 7.00	National Grid Co-ordinate: E:277644.3 N:185938.1		Sheet: 1 of 2

Depth (m)	Samples & Testing			Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
	No	Type	Results					
3.10	1	ES	1xT+1xJ+1xV			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)	
						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	
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	
						Firm blueish grey locally peaty silty CLAY. With occasional decaying rootlets (<2mm x 15mm).	(0.60)	
						... 7.50m to 7.80m; peaty.	6.50	
8.00	3	ES	1xT+1xJ+1xV			Firm brown psuedo-fibrous PEAT.	(1.30)	
							7.80	
							(1.30)	

Boring Progress and Water Observations						General Remarks	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth		
						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: Inspection pit + Sonic drilling	Plant Used: Sonic Drilling Rig			Drilled By: Grant Goodwin	Logged By: RHorne	Checked By: JCB	

SONIC DRILLING LOG

Contract:		Client:		Borehole:
Project Cronus		Tata Steel UK Ltd		BH207
Contract Ref:	Start: 20.04.22	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075	End: 20.04.22	7.00	E:277644.3 N:185938.1	2 of 2

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

Boring Progress and Water Observations						General Remarks							
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth								
All dimensions in metres						Scale:		1:50					
Method Used:	Inspection pit + Sonic drilling		Plant Used:	Sonic Drilling Rig		Drilled By:	Grant Goodwin		Logged By:	RHorne	Checked By:	JCB	AGS

SONIC DRILLING LOG

Contract: Project Cronus			Client: Tata Steel UK Ltd		Borehole: BH208
Contract Ref: 315075	Start: 06.04.22 End: 06.04.22	Ground Level (m AOD): 6.18	National Grid Co-ordinate: E:277559.7 N:185748.9		Sheet: 1 of 2

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

Boring Progress and Water Observations						General Remarks	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth		
						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: Inspection pit + Sonic drilling	Plant Used: Sonic Drilling Rig			Drilled By: Grant Goodwin	Logged By: RHorne	Checked By: JCB	

SONIC DRILLING LOG

Contract: Project Cronus			Client: Tata Steel UK Ltd		Borehole: BH208
Contract Ref: 315075	Start: 06.04.22 End: 06.04.22	Ground Level (m AOD): 6.18	National Grid Co-ordinate: E:277559.7 N:185748.9		Sheet: 2 of 2

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

Boring Progress and Water Observations						General Remarks
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	
						</

SONIC DRILLING LOG

Contract: Project Cronus			Client: Tata Steel UK Ltd		Borehole: BH209
Contract Ref: 315075	Start: 19.04.22 End: 19.04.22	Ground Level (m AOD): 6.75	National Grid Co-ordinate: E:277497.3 N:186002.1		Sheet: 1 of 2

Depth (m)	Samples & Testing			Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
	No	Type	Results					
1.20 1.20	1	ES PID	1xT+1xJ+1xV 0.5ppm			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) 1.60	
2.00 2.00	2	ES PID	1xT+1xJ+1xV 3.8ppm			MADE GROUND. Brown to dark grey SAND. Sand is fine and medium. With Hydrocarbon odour.	(3.20)	
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	
5.40 5.40	4	ES PID	1xT+1xJ+1xV 0.2ppm			Firm grey mottled orangish brown CLAY, ... 6.80m to 7.20m; slightly peaty.	(2.40) 7.20	
						Firm brown psuedo-fibrous PEAT.	(1.00) 8.20	
						Soft grey locally slightly sandy SILT. Sand is fine.		

Boring Progress and Water Observations						General Remarks	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth		
						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.	
Method Used: Inspection pit + Sonic drilling						All dimensions in metres	Scale: 1:50
Plant Used: Sonic Drilling Rig						Drilled By: Grant Goodwin	Logged By: RHorne
						Checked By: JCB	

SONIC DRILLING LOG

Contract: Project Cronus			Client: Tata Steel UK Ltd		Borehole: BH209
Contract Ref: 315075	Start: 19.04.22 End: 19.04.22	Ground Level (m AOD): 6.75	National Grid Co-ordinate: E:277497.3 N:186002.1		Sheet: 2 of 2

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

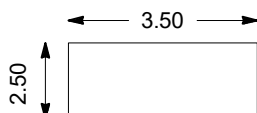
Boring Progress and Water Observations						General Remarks
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	
						</

TRIAL PIT LOG

Contract: Project Cronus			Client: Tata Steel UK Ltd		Trial Pit: TP201
Contract Ref: 315075	Start: 30.03.22 End: 30.03.22	Ground Level (m AOD): 5.79	National Grid Co-ordinate: E:277607.9 N:185831.4		Sheet: 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. 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).	0.10	
0.60 0.60	2	ES PID	0.2ppm				(1.20)	
1.10 1.10	3	ES PID	0.4ppm				1.30	
1.60 1.60	4	ES PID	1.1ppm			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)	
							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

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

All dimensions in metres

Scale: **1:25**

Method Used:

Machine dug

Plant Used:

Wheeled 360° excavator

Logged By:

RLockyer

Checked By:

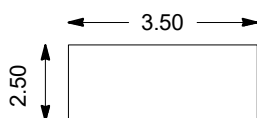
JCB
AGS

TRIAL PIT LOG

Contract: Project Cronus			Client: Tata Steel UK Ltd		Trial Pit: TP202
Contract Ref: 315075	Start: 30.03.22 End: 30.03.22	Ground Level (m AOD): 5.59	National Grid Co-ordinate: E:277590.1 N:185765.3		Sheet: 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			MADE GROUND. Grey silty angular fine to coarse gravel of slag with high cobble content of slag.	(0.90)	
							1.70	
						MADE GROUND. Dark grey gravelly silty clay. Gravel is angular fine to coarse of slag. Sheen on water seepage. Oil slick/sheen on soil.	(1.40)	
							3.10	
						Trial pit terminated at 3.10m depth.		

Plan (Not to Scale)



General Remarks

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

All dimensions in metres

Scale: **1:25**

Method Used:

Machine dug

Plant Used:

Wheeled 360° excavator

Logged By:

RLockyer

Checked By:

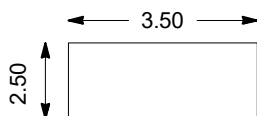
JCB
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TRIAL PIT LOG

Contract: Project Cronus			Client: Tata Steel UK Ltd		Trial Pit: TP203
Contract Ref: 315075	Start: 30.03.22 End: 30.03.22	Ground Level (m AOD): 5.84	National Grid Co-ordinate: E:277552.4 N:185801.9		Sheet: 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 slightly 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.	(1.40) 2.60	
2.00	4	ES				... Becoming orange and yellow brown at 1.8mbgl.		
Trial pit terminated at 2.60m due to refusal on hard strata.								

Plan (Not to Scale)



General Remarks

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

All dimensions in metres

Scale: **1:25**

Method Used:

Machine dug

Plant Used:

Wheeled 360° excavator

Logged By:

RLockyer

Checked By:

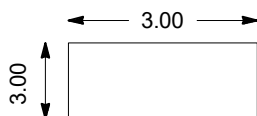
JCB
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TRIAL PIT LOG

Contract: Project Cronus		Client: Tata Steel UK Ltd		Trial Pit: TP204
Contract Ref: 315075	Start: 31.03.22 End: 31.03.22	Ground Level (m AOD): 6.67	National Grid Co-ordinate: E:277393.7 N:185854.8	Sheet: 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	2	ES				MADE GROUND. Brownish orange, slightly silty SAND. Rare slag gravel, fine to coarse, angular.	(0.40)	
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)	
2.00	4	ES				MADE GROUND. Orange and grey, slightly silty SAND. Rare slag cobbles. Very wet. Coal tar/ hydrocarbon odour. Sheen on water.	(0.60)	
Trial pit terminated at 2.40m depth.								

Plan (Not to Scale)



General Remarks

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

All dimensions in metres

Scale: **1:25**

Method Used:

Machine dug

Plant Used:

Wheeled 360° excavator

Logged By:

FNorman

Checked By:

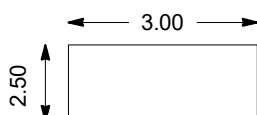
JCB
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TRIAL PIT LOG

Contract: Project Cronus		Client: Tata Steel UK Ltd		Trial Pit: TP205
Contract Ref: 315075	Start: 31.03.22 End: 31.03.22	Ground Level (m AOD): 6.24	National Grid Co-ordinate: E:277368.2 N:185918.6	Sheet: 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)	
0.60	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)	
1.10	3	ES				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)	
						Trial pit terminated due to pit instability at 2.50m depth.	2.50	

Plan (Not to Scale)



General Remarks

- Utility clearance undertaken using CAT and Genny and GPR.
- Groundwater encountered at 1.40 m depth.
- Trial pit backfilled with arisings in reverse order upon completion.

All dimensions in metres

Scale: **1:25**

Method Used:

Machine dug

Plant Used:

Wheeled 360° excavator

Logged By:

FNorman

Checked By:

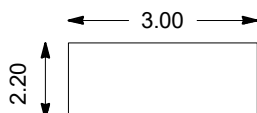
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TRIAL PIT LOG

Contract: Project Cronus		Client: Tata Steel UK Ltd		Trial Pit: TP206
Contract Ref: 315075	Start: 31.03.22 End: 31.03.22	Ground Level (m AOD): 6.38	National Grid Co-ordinate: E:277344.0 N:185994.7	Sheet: 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)	
0.60	2	ES				MADE GROUND. Brownish orange, slightly gravelly SAND. Gravel is fine to medium, angular to sub-rounded. Comprising slag and limestone.	(0.35)	
1.10	3	ES				MADE GROUND. Blackish greenish brown, slightly silty very gravelly, cobbly SAND. Travels and cobbles comprise, slag, limestone and rare brick. Rare large concrete boulders 0.6 x 0.8m.	(2.00)	
						Trial pit terminated at 2.70m depth.	2.70	

Plan (Not to Scale)



General Remarks

- Utility clearance undertaken using CAT and Genny and GPR.
- Groundwater encountered at 1.40 m depth.
- Trial pit backfilled with arisings in reverse order upon completion.

All dimensions in metres

Scale: **1:25**

Method Used:

Machine dug

Plant Used:

Wheeled 360° excavator

Logged By:

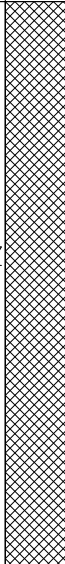
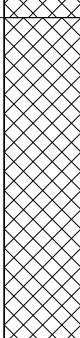
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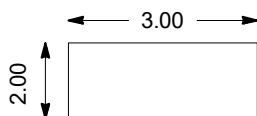
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TRIAL PIT LOG

Contract: Project Cronus		Client: Tata Steel UK Ltd		Trial Pit: TP207
Contract Ref: 315075	Start: 31.03.22 End: 31.03.22	Ground Level (m AOD): 6.53	National Grid Co-ordinate: E:277329.3 N:186044.1	Sheet: 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, 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, cobbly SAND. Fine gravel to coarse cobbles. Sub-angular to rounded. Comprising Limestone, concrete, brick and slag.	(0.30) 0.80		
1.10	3	ES			MADE GROUND. Slightly greenish grey, slightly silty, gravelly, slightly cobbly SAND. Gravel 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

- Utility clearance undertaken using CAT and Genny and GPR.
- Groundwater encountered at 0.90 m depth.
- Trial pit backfilled with arisings in reverse order upon completion.

All dimensions in metres

Scale: **1:25**

Method Used:

Machine dug

Plant Used:

Wheeled 360° excavator

Logged By:

FNorman

Checked By:

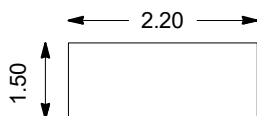
JCB 

TRIAL PIT LOG

Contract: Project Cronus		Client: Tata Steel UK Ltd		Trial Pit: TP208
Contract Ref: 315075	Start: 01.04.22 End: 01.04.22	Ground Level (m AOD): 7.12	National Grid Co-ordinate: E:277375.3 N:186082.5	Sheet: 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	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				Trial pit terminated due to concrete obstruction at 1.10m depth.	1.10	

Plan (Not to Scale)



General Remarks

- Utility clearance undertaken using CAT and Genny and GPR.
- Groundwater encountered at 1.00 m depth.
- Trial pit backfilled with arisings in reverse order upon completion.

All dimensions in metres

Scale: **1:25**

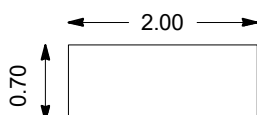
Method Used: Machine dug	Plant Used: Wheeled 360° excavator	Logged By: RLockyer	Checked By: JCB	
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TRIAL PIT LOG

Contract: Project Cronus			Client: Tata Steel UK Ltd		Trial Pit: TP209
Contract Ref: 315075	Start: 01.04.22 End: 01.04.22	Ground Level (m AOD): 6.85	National Grid Co-ordinate: E:277371.5 N:186033.2		Sheet: 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	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	3	ES				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)	
						Trial pit terminated due to wall instability at 2.00m depth.	2.00	

Plan (Not to Scale)



General Remarks

- Utility clearance undertaken using CAT and Genny and GPR.
- Groundwater encountered at 1.40 m depth.
- Trial pit backfilled with arisings in reverse order upon completion.

All dimensions in metres

Scale: **1:25**

Method Used:

Machine dug

Plant Used:

Wheeled 360° excavator

Logged By:

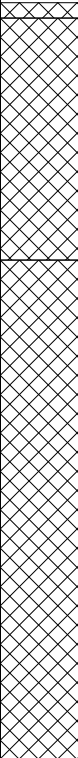
RLockyer

Checked By:

JCB
AGS

TRIAL PIT LOG

Contract:		Client:		Trial Pit:	
Project Cronus		Tata Steel UK Ltd		TP210	
Contract Ref:	Start: 04.04.22	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:	
315075	End: 04.04.22	6.67	E:277388.7 N:185985.2	1 of 1	

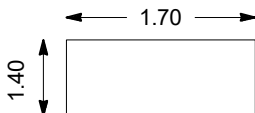
Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.10 0.10 0.20 0.20	1 2	ES PID ES PID	1.0ppm 0.1ppm			MADE GROUND. Dark brown clayey angular fine to coarse GRAVEL of brick, plastic, slag.	0.15	
						MADE GROUND. Black 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)	
							0.95	
0.95 0.95	3	ES PID	0.4ppm			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. . . . Becoming pale bluish grey		
						. . . Mottled black	(1.65)	
							2.60	
						Trial pit terminated due to wall instability at 2.60m depth.		

Plan (Not to Scale)		General Remarks	
A diagram showing a rectangular area with dimensions 3.00 (width) and 1.50 (height).		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:	Machine dug	Plant Used:	Wheeled 360° excavator
		Logged By:	RLockver
		Checked By:	JCB
			AGS

TRIAL PIT LOG

Contract: Project Cronus		Client: Tata Steel UK Ltd		Trial Pit: TP211
Contract Ref: 315075	Start: 04.04.22 End: 04.04.22	Ground Level (m AOD): 7.37	National Grid Co-ordinate: E:277453.0 N:186294.4	Sheet: 1 of 1

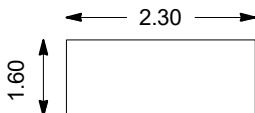
Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.10 0.10	1	ES PID	0.1ppm			MADE GROUND. Reddish brown silty fine to coarse GRAVEL of slag. MADE GROUND. Grey sandy angular fine to coarse GRAVEL of slag and brick. Metallic particles in the sand. MADE GROUND brown grey slightly gravelly silty angular COBBLES of slag. Low boulder content upto 250x150x190mm. ... Concrete wall along south wall of pit.	0.05 0.15	
0.50 0.50	2	ES PID	0.1ppm				(1.00)	
							1.15	
Trial pit terminated due to concrete obstruction at 1.15m 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: Machine dug	Plant Used: Wheeled 360° excavator	Logged By: RLockyer	Checked By: JCB	

TRIAL PIT LOG

Contract: Project Cronus		Client: Tata Steel UK Ltd		Trial Pit: TP212
Contract Ref: 315075	Start: 04.04.22 End: 04.04.22	Ground Level (m AOD): 7.47	National Grid Co-ordinate: E:277465.9 N:186294.0	Sheet: 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.	1.10	
1.00 1.00	3	ES PID	0.1ppm			Trial pit terminated due to concrete or hard slag between 0.90m and 1.10m depth.		

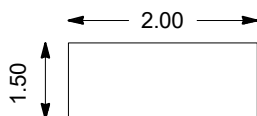
Plan (Not to Scale)		General Remarks		
		1. Utility clearance undertaken using CAT and Genny and GPR. 2. No groundwater encountered. 3. Trial pit backfilled with arisings in reverse order upon completion.		
All dimensions in metres		Scale: 1:25		
Method Used: Machine dug	Plant Used: Wheeled 360° excavator	Logged By: RLockyer	Checked By: JCB	

TRIAL PIT LOG

Contract: Project Cronus		Client: Tata Steel UK Ltd		Trial Pit: TP213
Contract Ref: 315075	Start: 04.04.22 End: 04.04.22	Ground Level (m AOD): 6.83	National Grid Co-ordinate: E:277476.3 N:186252.4	Sheet: 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	0.0ppm			MADE GROUND. Brown gravelly SILT. Gravel is angular fine of slag.	0.15	
0.45 0.45 0.55 0.55	2 3	ES PID ES PID	0.0ppm 0.1ppm			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) 0.60	
						MADE GROUND. Solid compacted slag.	0.70	
						Trial pit terminated due to hard strata at 0.70m depth.		

Plan (Not to Scale)



General Remarks

- Utility clearance undertaken using CAT and Genny and GPR.
- No groundwater encountered.
- Trial pit backfilled with arisings in reverse order upon completion.

All dimensions in metres

Scale: **1:25**

Method Used:

Machine dug

Plant Used:

Wheeled 360° excavator

Logged By:

RLockyer

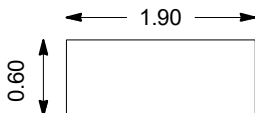
Checked By:

JCB
AGS

TRIAL PIT LOG

Contract: Project Cronus		Client: Tata Steel UK Ltd		Trial Pit: TP214
Contract Ref: 315075	Start: 01.04.22 End: 01.04.22	Ground Level (m AOD): 6.79	National Grid Co-ordinate: E:277535.0 N:186106.5	Sheet: 1 of 1

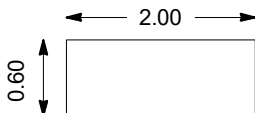
Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.10	1	ES				MADE GROUND. Brown sandy silty angular to subangular fine to medium GRAVEL of slag, brick, clicker, glass. Sand is fine to coarse.		
0.50	2	ES					(0.70)	
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.	
Method Used: Machine dug		Plant Used: Wheeled 360° excavator	
All dimensions in metres		Scale: 1:25	
Logged By: RLockyer		Checked By: JCB	

TRIAL PIT LOG

Contract: Project Cronus		Client: Tata Steel UK Ltd		Trial Pit: TP215
Contract Ref: 315075	Start: 01.04.22 End: 01.04.22	Ground Level (m AOD): 7.02	National Grid Co-ordinate: E:277543.9 N:186080.4	Sheet: 1 of 1

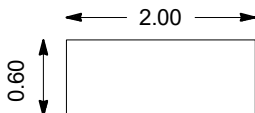
Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.20	1	ES				MADE GROUND: Brown sandy angular fine to coarse GRAVEL of slag and metal fragments.	(0.30)	
						Trial pit terminated due to obstruction/hard strata solid slag at 0.30m depth.	0.30	

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.		
Method Used: Machine dug		Plant Used: Wheeled 360° excavator		Scale: 1:25
Logged By: RLockyer		Checked By: JCB		AGS

TRIAL PIT LOG

Contract: Project Cronus		Client: Tata Steel UK Ltd		Trial Pit: TP216
Contract Ref: 315075	Start: 01.04.22 End: 01.04.22	Ground Level (m AOD): 7.14	National Grid Co-ordinate: E:277548.4 N:186047.8	Sheet: 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.		

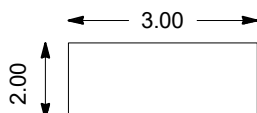
Plan (Not to Scale) 		General Remarks 1. Utility clearance undertaken using CAT and Genny and GPR. 2. No groundwater encountered. 3. Trial pit backfilled with arisings in reverse order upon completion.	
Method Used: Machine dug		Plant Used: Wheeled 360° excavator	
All dimensions in metres		Scale: 1:25	
Logged By: RLockyer		Checked By: JCB 	

TRIAL PIT LOG

Contract: Project Cronus			Client: Tata Steel UK Ltd		Trial Pit: TP217
Contract Ref: 315075	Start: 05.04.22 End: 05.04.22	Ground Level (m AOD): 6.84	National Grid Co-ordinate: E:277476.3 N:186252.4		Sheet: 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 cobbly 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

- Utility clearance undertaken using CAT and Genny and GPR.
- No groundwater encountered.
- Trial pit backfilled with arisings in reverse order upon completion.

All dimensions in metres

Scale: **1:25**

Method Used:

Machine dug

Plant Used:

Wheeled 360° excavator

Logged By:

FNorman

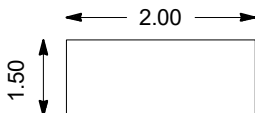
Checked By:

JCB


TRIAL PIT LOG

Contract: Project Cronus			Client: Tata Steel UK Ltd		Trial Pit: TP218
Contract Ref: 315075	Start: 05.04.22 End: 05.04.22	Ground Level (m AOD): 7.57	National Grid Co-ordinate: E:277655.5 N:186040.3		Sheet: 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	

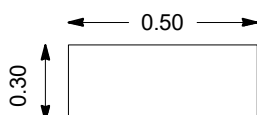
Plan (Not to Scale)		General Remarks			
		1. Utility clearance undertaken using CAT and Genny and GPR. 2. No groundwater encountered. 3. Trial pit backfilled with arisings in reverse order upon completion.			
		All dimensions in metres		Scale:	1:25
Method Used: Machine dug	Plant Used: Wheeled 360° excavator	Logged By: FNorman	Checked By: JCB		

TRIAL PIT LOG

Contract: Project Cronus			Client: Tata Steel UK Ltd		Trial Pit: TP221
Contract Ref: 315075	Start: 07.04.22 End: 07.04.22	Ground Level (m AOD): 5.25	National Grid Co-ordinate: E:277748.6 N:185842.4		Sheet: 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	
0.50	2	ES				MADE GROUND. Light grey slightly silty, very gravelly SAND. Gravel is fine to coarse, angular to sub-rounded. Comprising slag.	(0.45)	
						Hand pit terminated due to refusal at 0.60m depth.	0.60	

Plan (Not to Scale)



General Remarks

- Utility clearance undertaken using CAT and Genny and GPR.
- No groundwater encountered.
- Hand pit backfilled with arisings in reverse order upon completion.

All dimensions in metres

Scale: **1:25**

Method Used:

Hand dug

Plant Used:

Hand tools

Logged By:

FNorman

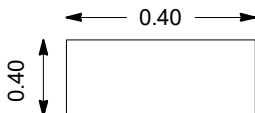
Checked By:

JCB


TRIAL PIT LOG

Contract: Project Cronus		Client: Tata Steel UK Ltd		Trial Pit: TP222
Contract Ref: 315075	Start: 06.04.22 End: 06.04.22	Ground Level (m AOD): 5.32	National Grid Co-ordinate: E:277734.0 N:185801.9	Sheet: 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.		

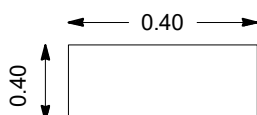
Plan (Not to Scale)		General Remarks		
		1. Utility clearance undertaken using CAT and Genny and GPR. 2. No groundwater encountered. 3. Hand pit backfilled with arisings in reverse order upon completion.		
All dimensions in metres		Scale: 1:25		
Method Used: Hand dug	Plant Used: Hand tools	Logged By: FNorman	Checked By: JCB	

TRIAL PIT LOG

Contract: Project Cronus		Client: Tata Steel UK Ltd		Trial Pit: TP223
Contract Ref: 315075	Start: 07.04.22 End: 07.04.22	Ground Level (m AOD): 5.38	National Grid Co-ordinate: E:277756.7 N:185792.3	Sheet: 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 soft to firm dark brownish black very sandy, slightly gravelly SILT. Gravel is fine to medium. Angular to sub-rounded. Comprising slag. Abundant rootlets. MADE GROUND. Greyish black, slightly silty, gravelly SAND. Rare cobbles. Gravel is fine to coarse, angular to sub-rounded. Comprising slag.	0.10	
0.50	2	ES					(0.80)	
0.90	3	ES				Hand pit terminated due to refusal at 0.90m depth.	0.90	

Plan (Not to Scale)



General Remarks

- Utility clearance undertaken using CAT and Genny and GPR.
- No groundwater encountered.
- Hand pit backfilled with arisings in reverse order upon completion.

All dimensions in metres

Scale: **1:25**

Method Used:

Hand dug

Plant Used:

Hand tools

Logged By:

FNorman

Checked By:

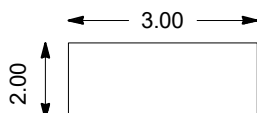
JCB


TRIAL PIT LOG

Contract: Project Cronus			Client: Tata Steel UK Ltd		Trial Pit: TP224
Contract Ref: 315075	Start: 04.04.22 End: 04.04.22	Ground Level (m AOD): 6.31	National Grid Co-ordinate: E:277832.5 N:185829.1		Sheet: 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	0.5ppm			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 cobbly GRAVEL. Gravel is fine to coarse. Cobbles are fine to medium. Comprising slag and natural stone. ... Loose coiled wires. ... Becomes grey, rare mottled brown.	(1.20) 1.60	
1.10 1.10	3	ES PID				MADE GROUND. Bluish grey, rare mottled pale yellow and brown sandy very cobbly 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

- Utility clearance undertaken using CAT and Genny and GPR.
- No groundwater encountered.
- Trial pit backfilled with arisings in reverse order upon completion.

All dimensions in metres

Scale: **1:25**

Method Used:

Machine dug

Plant Used:

Wheeled 360° excavator

Logged By:

FNorman

Checked By:

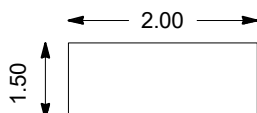
JCB
AGS

TRIAL PIT LOG

Contract: Project Cronus			Client: Tata Steel UK Ltd		Trial Pit: TP225
Contract Ref: 315075	Start: 04.04.22 End: 04.04.22	Ground Level (m AOD): 6.36	National Grid Co-ordinate: E:277800.0 N:185828.5		Sheet: 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 cobbly GRAVEL. Fine gravel to coarse cobbles. Angular to sub-rounded. Comprising slag and concrete. Trial pit terminated due to refusal at 0.50m depth.	0.50	

Plan (Not to Scale)



General Remarks

- Utility clearance undertaken using CAT and Genny and GPR.
- No groundwater encountered.
- Trial pit backfilled with arisings in reverse order upon completion.

All dimensions in metres

Scale: **1:25**

Method Used:

Machine dug

Plant Used:

Wheeled 360° excavator

Logged By:

FNorman

Checked By:

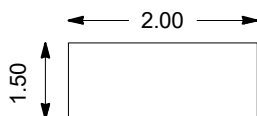
JCB
AGS

TRIAL PIT LOG

Contract: Project Cronus		Client: Tata Steel UK Ltd		Trial Pit: TP226
Contract Ref: 315075	Start: 04.04.22 End: 04.04.22	Ground Level (m AOD): 6.21	National Grid Co-ordinate: E:277868.2 N:185760.0	Sheet: 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, cobbly 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

- Utility clearance undertaken using CAT and Genny and GPR.
- No groundwater encountered.
- Trial pit backfilled with arisings in reverse order upon completion.

All dimensions in metres

Scale: **1:25**

Method Used:

Machine dug

Plant Used:

Wheeled 360° excavator

Logged By:

FNorman

Checked By:

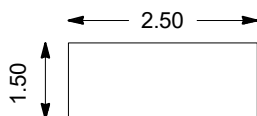
JCB


TRIAL PIT LOG

Contract: Project Cronus			Client: Tata Steel UK Ltd		Trial Pit: TP227
Contract Ref: 315075	Start: 01.04.22 End: 01.04.22	Ground Level (m AOD): 5.88	National Grid Co-ordinate: E:277786.5 N:185694.7		Sheet: 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, cobbled 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 cobbly 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 cobbly.	(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

- Utility clearance undertaken using CAT and Genny and GPR.
- Groundwater encountered at 2.20m.
- Trial pit backfilled with arisings in reverse order upon completion.

All dimensions in metres

Scale: **1:25**

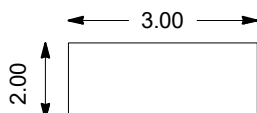
Method Used: Machine dug	Plant Used: Wheeled 360° excavator	Logged By: FNorman	Checked By: JCB	
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TRIAL PIT LOG

Contract: Project Cronus			Client: Tata Steel UK Ltd		Trial Pit: TP228
Contract Ref: 315075	Start: 01.04.22 End: 01.04.22	Ground Level (m AOD): 5.66	National Grid Co-ordinate: E:277809.7 N:185667.7		Sheet: 1 of 1

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.30	1	ES				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	
0.60	2	ES				MADE GROUND. Greyish brown and black mottled, very gravelly, very cobbly 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.		
1.20	3	ES				... Becomes very sandy, very cobbly 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

- Utility clearance undertaken using CAT and Genny and GPR.
- No groundwater encountered.
- Trial pit backfilled with arisings in reverse order upon completion.

All dimensions in metres

Scale: **1:25**

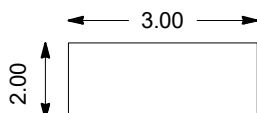
Method Used: Machine dug	Plant Used: Wheeled 360° excavator	Logged By: FNorman	Checked By: JCB	
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TRIAL PIT LOG

Contract: Project Cronus			Client: Tata Steel UK Ltd		Trial Pit: TP229
Contract Ref: 315075	Start: 01.04.22 End: 01.04.22	Ground Level (m AOD): 5.93	National Grid Co-ordinate: E:277732.0 N:185577.6		Sheet: 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, cobbly SAND. Most of the material comprises coal and slag. Gravel is fine to coarse, angular to sub-rounded. Occasional concrete.	(0.50)	
0.60	2	ES				MADE GROUND. Blackish brown slightly silty, gravelly, very cobbly 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)	
1.30	3	ES				MADE GROUND. Firm, greenish, blackish brown, very sandy, slightly gravelly, slightly cobbly SILT. Rare concrete boulders up to 60cm. Gravel is fine to coarse, angular to sub-rounded. Comprising slag and natural stone	(1.10)	
						Trial pit terminated at 3.00m depth.	3.00	

Plan (Not to Scale)



General Remarks

- Utility clearance undertaken using CAT and Genny and GPR.
- No groundwater encountered.
- Trial pit backfilled with arisings in reverse order upon completion.

All dimensions in metres

Scale: **1:25**

Method Used:

Machine dug

Plant Used:

Wheeled 360° excavator

Logged By:

FNorman

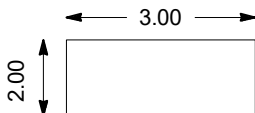
Checked By:

JCB
AGS

TRIAL PIT LOG

Contract: Project Cronus			Client: Tata Steel UK Ltd		Trial Pit: TP230
Contract Ref: 315075	Start: 01.04.22 End: 01.04.22	Ground Level (m AOD): 5.85	National Grid Co-ordinate: E:277798.3 N:185609.5		Sheet: 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 cobbly 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	

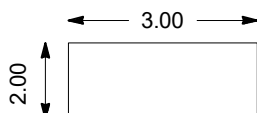
Plan (Not to Scale) 		General Remarks - Utility clearance undertaken using CAT and Genny and GPR. - No groundwater encountered. - Trial pit backfilled with arisings in reverse order upon completion.			
		All dimensions in metres		Scale:	1:25
Method Used: Machine dug	Plant Used: Wheeled 360° excavator	Logged By: FNorman	Checked By: JCB		

TRIAL PIT LOG

Contract: Project Cronus		Client: Tata Steel UK Ltd		Trial Pit: TP231
Contract Ref: 315075	Start: 05.04.22 End: 05.04.22	Ground Level (m AOD): 5.66	National Grid Co-ordinate: E:277809.7 N:185667.7	Sheet: 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.		
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.		
						... Becomes soft at 2.2m. Slightly sandy.	(1.80)	
							3.00	
						Trial pit terminated at 3.00m depth.		

Plan (Not to Scale)



General Remarks

- Utility clearance undertaken using CAT and Genny and GPR.
- Groundwater encountered at 1.20m.
- Trial pit backfilled with arisings in reverse order upon completion.

All dimensions in metres

Scale: **1:25**

Method Used:

Machine dug

Plant Used:

Wheeled 360° excavator

Logged By:

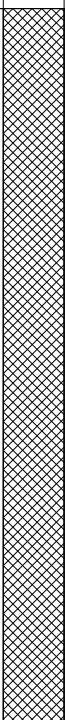
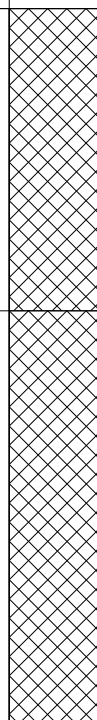
FNorman

Checked By:

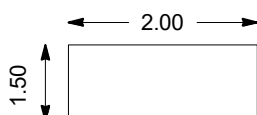
JCB
AGS

TRIAL PIT LOG

Contract: Project Cronus			Client: Tata Steel UK Ltd		Trial Pit: TP232
Contract Ref: 315075	Start: 05.04.22 End: 05.04.22	Ground Level (m AOD): 5.22	National Grid Co-ordinate: E:278206.4 N:185683.0		Sheet: 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	0.1ppm			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 0.50	2	ES PID					1.00	
1.20	3	ES				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)	
						Trial pit terminated due to water ingress at 2.40m depth.	2.40	

Plan (Not to Scale)



General Remarks

- Utility clearance undertaken using CAT and Genny and GPR.
- Groundwater encountered at 2.00m.
- Trial pit backfilled with arisings in reverse order upon completion.
- Hydrocarbon sheen on water.

All dimensions in metres

Scale: **1:25**

Method Used:

Machine dug

Plant Used:

Wheeled 360° excavator

Logged By:

FNorman

Checked By:

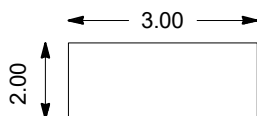
JCB
AGS

TRIAL PIT LOG

Contract: Project Cronus			Client: Tata Steel UK Ltd		Trial Pit: TP233
Contract Ref: 315075	Start: 04.04.22 End: 04.04.22	Ground Level (m AOD): 5.08	National Grid Co-ordinate: E:278255.7 N:185571.1		Sheet: 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)	
0.65	2	ES				MADE GROUND. Grey with red mottling, very sandy cobbly GRAVEL. Fine gravel to coarse cobbles. Comprising slag. Rare boulders upto	(0.70)	
1.40	3	ES				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)	
						Stiff pale orange and black slightly sandy (with very sandy lenses), clayey SILT. Rare relict rootlets. No olfactory reaction.	(2.10)	
						Trial pit terminated at 3.70m depth.	3.70	

Plan (Not to Scale)



General Remarks

- Utility clearance undertaken using CAT and Genny and GPR.
- Groundwater encountered at 1.60m.
- Trial pit backfilled with arisings in reverse order upon completion.

All dimensions in metres

Scale: **1:25**

Method Used:

Machine dug

Plant Used:

Wheeled 360° excavator

Logged By:

FNorman

Checked By:

JCB
AGS

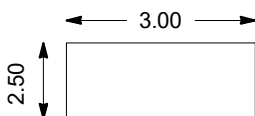
TRIAL PIT LOG

Contract: Project Cronus		Client: Tata Steel UK Ltd		Trial Pit: TP234
Contract Ref: 315075	Start: 04.04.22 End: 04.04.22	Ground Level (m AOD): 5.35	National Grid Co-ordinate: E:278242.4 N:185570.1	Sheet: 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 cobbly GRAVEL. Fine gravel to coarse cobbles. Rare boulders up to 50cm. Comprising slag.	(0.90) 1.30	
1.10	3	ES				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).	(2.00) 3.30	
1.50	4	ES				... Becomes grey and brown mottled.		
Trial pit terminated to 3.30m depth.								



Plan (Not to Scale)



General Remarks

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

All dimensions in metres

Scale: **1:25**

Method Used:

Machine dug

Plant Used:

Wheeled 360° excavator

Logged By:

FNorman

Checked By:

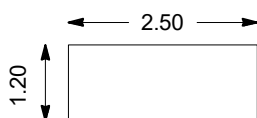
JCB


TRIAL PIT LOG

Contract: Project Cronus			Client: Tata Steel UK Ltd		Trial Pit: TP04
Contract Ref: 315075	Start: 24.11.21 End: 24.11.21	Ground Level (m AOD): ---	National Grid Co-ordinate: E:277600.0 N:186360.0		Sheet: 1 of 1

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.80-0.80	1	ES	1xT+1xJ+1xV 0.1ppm			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)	
0.80							0.60	
0.90-1.40	3	PID B				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

- Pit terminated due to ACM found, samples taken and pit backfilled.

All dimensions in metres

Scale: **1:25**

Method Used:

Machine dug

Plant Used:

Wheeled 360° excavator

Logged By:

RHorne

Checked By:

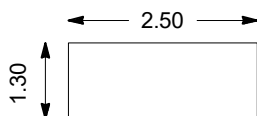
JCB
AGS

TRIAL PIT LOG

Contract: Project Cronus			Client: Tata Steel UK Ltd		Trial Pit: TP05
Contract Ref: 315075	Start: 03.12.21 End: 03.12.21	Ground Level (m AOD): ---	National Grid Co-ordinate: E:277737.0 N:186412.0		Sheet: 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	1	ES	1xT+1xJ+1xV			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	
0.30-0.60	2	B	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)	
0.30		PID					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:

Machine dug

Plant Used:

Caterpillar 320

Logged By:

RHorne

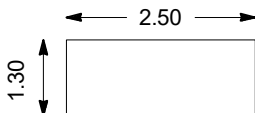
Checked By:

JCB


TRIAL PIT LOG

Contract: Project Cronus			Client: Tata Steel UK Ltd		Trial Pit: TP06
Contract Ref: 315075	Start: 18.01.22 End: 18.01.22	Ground Level (m AOD): ---	National Grid Co-ordinate: E:277558.0 N:186030.0		Sheet: 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		PID	0.2ppm			Trial pit terminated at 1.20m depth.	1.20	

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: Machine dug	Plant Used: Wheeled 360° excavator	Logged By: RHorne	Checked By: JCB		

TRIAL PIT LOG

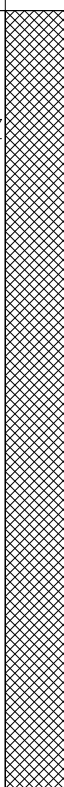
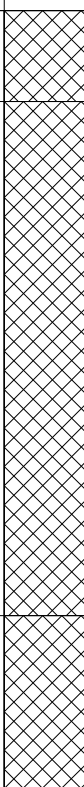
Contract:		Client:		Trial Pit:	
Project Cronus		Tata Steel UK Ltd		TP08	
Contract Ref:	Start: 06.01.22	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:	
315075	End: 06.01.22	---	E:277271.0 N:185943.0	1 of 1	

[illegible]

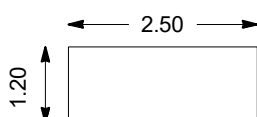
Plan (Not to Scale)		General Remarks	
A diagram showing a rectangular pit. The width is labeled as 2.80 and the depth is labeled as 1.20.		1. Trial pit was unstable below 1.5 m depth. 2. Terminated due to pit unstable. 3. Water seepage at 1.50m depth.	
		All dimensions in metres	Scale: 1:25
Method Used:	Machine dug	Plant Used:	Wheeled 360° excavator
		Logged By:	RHorne
		Checked By:	JCB
			AGS

TRIAL PIT LOG

Contract: Project Cronus		Client: Tata Steel UK Ltd		Trial Pit: TP09
Contract Ref: 315075	Start: 06.01.22 End: 06.01.22	Ground Level (m AOD): ---	National Grid Co-ordinate: E:277345.0 N:185769.0	Sheet: 1 of 1

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thick ness)	Material Graphic Legend
Depth	No	Type	Results					
0.40-0.40 0.40 0.50-1.00	1	ES PID B	1xT+1xJ+1xV 0.3ppm			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)	
	2					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).	0.30	
	2.10-2.10 2.10-2.50 2.10	3 4	ES B PID			1xT+1xJ+1xV 1.0ppm		
				2.00				
								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.
							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:

Machine dug

Plant Used:

Wheeled 360° excavator

Logged By:

RHorne

Checked By:

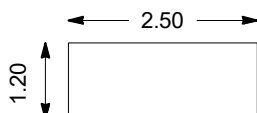
JCB
AGS

TRIAL PIT LOG

Contract: Project Cronus			Client: Tata Steel UK Ltd		Trial Pit: TP10
Contract Ref: 315075	Start: 06.01.22 End: 06.01.22	Ground Level (m AOD): ---	National Grid Co-ordinate: E:277454.0 N:185860.0		Sheet: 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	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	
0.20								
0.30-0.60	2	B				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	3	ES B	1xT+1xJ+1xV			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.		
0.70-1.20	4	PID	0.9ppm					
0.70								
							(2.00)	
2.20-2.20	5	ES PID	0.9ppm					
2.20							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:

Machine dug

Plant Used:

30T tracked 360° excavator

Logged By:

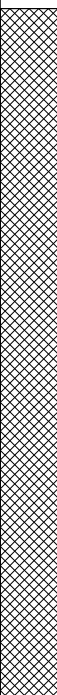
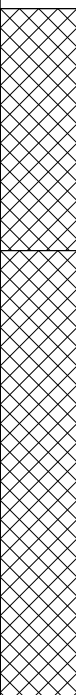
RHorne

Checked By:

JCB
AGS

TRIAL PIT LOG

Contract:		Client:		Trial Pit:	
Project Cronus		Tata Steel UK Ltd		TP11	
Contract Ref:	Start: 24.11.21	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:	
315075	End: 24.11.21	---	E:277748.0 N:186220.0	1 of 1	

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thick ness)	Material Graphic Legend
Depth	No	Type	Results					
0.30-0.30 0.30-0.60 0.30	1 2	ES B PID	1xT+1xJ+1xV 0.1ppm			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. ... 0.50m to 0.55m; 1 No. Metal rod. ... 0.70m to 0.80m; dark reddish brown.	(0.80) 0.80	
1.00-1.50	4	B				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.	(1.50)	
1.30-1.30 1.30	3	ES PID	1xT+1xJ+1xV 0.1ppm					
1.80-1.90	5	B			... 1.80m to 1.90m; layer of slag.			
2.20-2.20 2.20	6	ES PID	1xT+1xJ+1xV 0.1ppm			Trial pit terminated at 2.30m depth.	2.30	

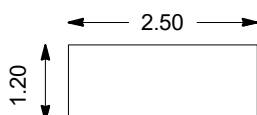
Plan (Not to Scale) 		General Remarks 1. Stopped due to water ingress. 2. Water seepage at 2.20m depth.	
		All dimensions in metres	Scale: 1:25
Method Used: Machine dug	Plant Used: Wheeled 360° excavator	Logged By: RHorne	Checked By: JCB

TRIAL PIT LOG

Contract: Project Cronus		Client: Tata Steel UK Ltd		Trial Pit: TP12
Contract Ref: 315075	Start: 03.12.21 End: 03.12.21	Ground Level (m AOD): ---	National Grid Co-ordinate: E:277535.0 N:186237.0	Sheet: 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	1	ES	1xT+1xJ+1xV			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	
0.30-0.70	2	B				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)	
0.30		PID	0.3ppm				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:

Machine dug

Plant Used:

Caterpillar 320

Logged By:

RHorne

Checked By:

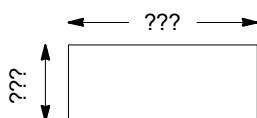
JCB
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TRIAL PIT LOG

Contract: Project Cronus			Client: Tata Steel UK Ltd		Trial Pit: TP13
Contract Ref: 315075	Start: 03.12.21 End: 03.12.21	Ground Level (m AOD): ---	National Grid Co-ordinate: E:277675.0 N:186174.0		Sheet: 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	1	ES PID	1xT+1xJ+1xV 0.1ppm			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	
0.50-1.00	2	B				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)	
1.50-1.50	3	ES B	1xT+1xJ+1xV				1.70	
1.50-1.70	4	PID	0.1ppm			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	5	ES	1xT+1xJ+1xV				3.00	
2.50-3.00	6	B PID	0.3ppm					
2.50						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:

Machine dug

Plant Used:

Caterpillar 320

Logged By:

RHorne

Checked By:

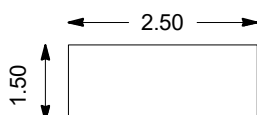
JCB


TRIAL PIT LOG

Contract: Project Cronus		Client: Tata Steel UK Ltd		Trial Pit: TP14
Contract Ref: 315075	Start: 03.12.21 End: 03.12.21	Ground Level (m AOD): ---	National Grid Co-ordinate: E:277730.0 N:186026.0	Sheet: 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	1	ES	1xT+1xJ+1xV			MADE GROUND: Pinkish brown gravelly silty SAND. Sand is fine to coarse. Gravel is angular fine to coarse of slag.	0.20	
0.30-0.60	2	B	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	PID						
		B						
						... 1.10m to 1.30m; 1No. Redundant pipe running SE-NW at North end of pit.	(2.30)	
2.00-2.00	4	ES	1xT+1xJ+1xV					
2.00-2.50	5	B	0.4ppm					
2.00		PID					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:

Machine dug

Plant Used:

Caterpillar 320

Logged By:

RHorne

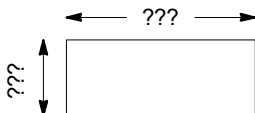
Checked By:

JCB
AGS

TRIAL PIT LOG

Contract: Project Cronus		Client: Tata Steel UK Ltd		Trial Pit: TP15
Contract Ref: 315075	Start: 02.12.21 End: 02.12.21	Ground Level (m AOD): ---	National Grid Co-ordinate: E:277819.0 N:186051.0	Sheet: 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.		

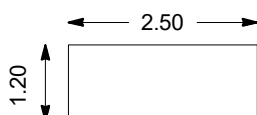
Plan (Not to Scale) 		General Remarks 1. Trial pit refused at 0.50m depth. 2. Trial pit remained dry and stable during excavation.	
Method Used: Machine dug		Plant Used: Caterpillar 320	
All dimensions in metres		Scale: 1:25	
Logged By: RHorne		Checked By: JCB	
			

TRIAL PIT LOG

Contract: Project Cronus		Client: Tata Steel UK Ltd		Trial Pit: TP16
Contract Ref: 315075	Start: 24.11.21 End: 24.11.21	Ground Level (m AOD): ---	National Grid Co-ordinate: E:277773.0 N:185928.0	Sheet: 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) ... 0.15m 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). ... 1.00m to 1.05m; 1 No. redundant metal pipe running east-west along pit. Trial pit terminated at 1.05m depth.	(0.30) 0.30 (0.75) 1.05	

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:

Machine dug

Plant Used:

Wheeled 360° excavator

Logged By:

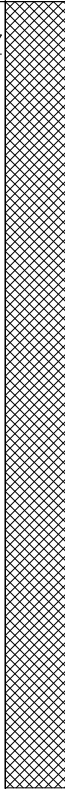
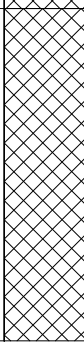
RHorne

Checked By:

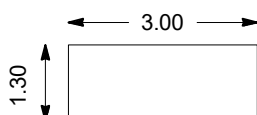
JCB
AGS

TRIAL PIT LOG

Contract: Project Cronus		Client: Tata Steel UK Ltd		Trial Pit: TP19
Contract Ref: 315075	Start: 07.01.22 End: 07.01.22	Ground Level (m AOD): ---	National Grid Co-ordinate: E:277572.0 N:185980.0	Sheet: 1 of 1

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thick ness)	Material Graphic Legend	
Depth	No	Type	Results						
0.20-0.20	1	ES	1xT+1xJ+1xV			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 0.50-1.00	2 3	ES B	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		
2.00-2.50	4	B	1xT+1xJ+1xV				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:

Machine dug

Plant Used:

Wheeled 360° excavator

Logged By:

RHorne

Checked By:

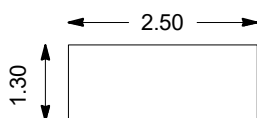
JCB 

TRIAL PIT LOG

Contract: Project Cronus			Client: Tata Steel UK Ltd		Trial Pit: TP20
Contract Ref: 315075	Start: 07.01.22 End: 07.01.22	Ground Level (m AOD): ---	National Grid Co-ordinate: E:277634.0 N:186035.0		Sheet: 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:

Machine dug

Plant Used:

Wheeled 360° excavator

Logged By:

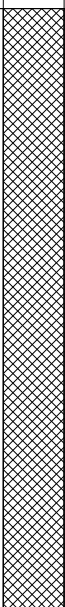
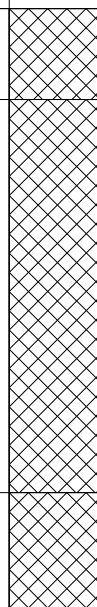
RHorne

Checked By:

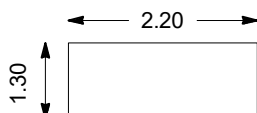
JCB 

TRIAL PIT LOG

Contract: Project Cronus		Client: Tata Steel UK Ltd		Trial Pit: TP21
Contract Ref: 315075	Start: 07.01.22 End: 07.01.22	Ground Level (m AOD): ---	National Grid Co-ordinate: E:277523.0 N:185829.0	Sheet: 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	1xT+1xJ+1xV 0.3ppm			MADE GROUND: Grass over black gravelly SAND. Sand is fine. Gravel is angular and subangular fine and medium of slag and concrete.	(0.30)	
0.40-0.40	2	ES PID	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).	0.30	
0.50-1.00	3	B PID					(1.30)	
1.70-2.00	4	B ES				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.	1.60	
1.70-1.70	5	PID	1xT+1xJ+1xV 0.5ppm				(0.40)	
1.70						Trial pit terminated at 2.00m depth.	2.00	

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:

Machine dug

Plant Used:

Wheeled 360° excavator

Logged By:

RHorne

Checked By:

JCB
AGS

TRIAL PIT LOG

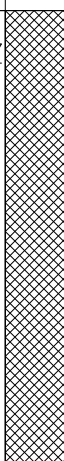
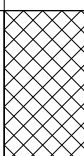
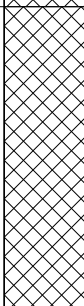
Contract:		Client:		Trial Pit:	
Project Cronus		Tata Steel UK Ltd		TP22	
Contract Ref:	Start: 07.01.22	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:	
315075	End: 07.01.22	---	E:277603.0 N:185742.0	1 of 1	

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.20-0.20	1	ES	1xT+1xJ+1xV			MADE GROUND: Grass over black gravelly SAND. Sand is fine. Gravel is angular and subangular fine and medium of slag and concrete.	0.15	
0.20-0.70	2	B				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)	
0.20		PID	0.3ppm				1.60	
2.00-2.00	3	ES	1xT+1xJ+1xV			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)	
2.00-2.50	4	B						
2.00		PID	0.7ppm				2.60	
						Trial pit terminated at 2.60m depth.		

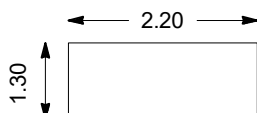
Plan (Not to Scale)		General Remarks 1. Trial pit remained stable during excavation. 2. Terminated due to water ingress. 3. Water strike at 1.60m depth.	
		All dimensions in metres	Scale: 1:25
Method Used: Machine dug	Plant Used: Wheeled 360° excavator	Logged By: RHorne	Checked By: JCB

TRIAL PIT LOG

Contract: Project Cronus		Client: Tata Steel UK Ltd		Trial Pit: TP23
Contract Ref: 315075	Start: 07.01.22 End: 07.01.22	Ground Level (m AOD): ---	National Grid Co-ordinate: E:277476.0 N:185635.0	Sheet: 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			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 PID	0.1ppm			0.50			
0.50-0.50	3	ES PID	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 (<40mm x 110mm x 190mm).	(1.00)	
1.00-1.30	4	B						1.50	
						Trial pit terminated at 1.50m depth.			

Plan (Not to Scale)



General Remarks

- Pit terminated due to water ingress.
- Water seepage at 1.20m depth.

All dimensions in metres

Scale: **1:25**

Method Used:

Machine dug

Plant Used:

Wheeled 360° excavator

Logged By:

RHorne

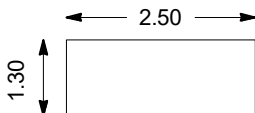
Checked By:

JCB
AGS

TRIAL PIT LOG

Contract: Project Cronus			Client: Tata Steel UK Ltd		Trial Pit: TP25
Contract Ref: 315075	Start: 17.01.22 End: 17.01.22	Ground Level (m AOD): ---	National Grid Co-ordinate: E:277705.0 N:185752.0		Sheet: 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)	
						Trial pit terminated at 1.20m depth.	1.20	

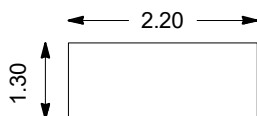
Plan (Not to Scale)		General Remarks			
		1. Terminated due to pit refusal.			
		All dimensions in metres		Scale:	1:25
Method Used: Machine dug	Plant Used: Wheeled 360° excavator	Logged By: RHorne	Checked By: JCB		

TRIAL PIT LOG

Contract: Project Cronus			Client: Tata Steel UK Ltd		Trial Pit: TP26
Contract Ref: 315075	Start: 17.01.22 End: 17.01.22	Ground Level (m AOD): ---	National Grid Co-ordinate: E:277670.0 N:185712.0		Sheet: 1 of 1

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thick ness)	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	 <				

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:

Machine dug

Plant Used:

Wheeled 360° excavator

Logged By:

RHorne

Checked By:

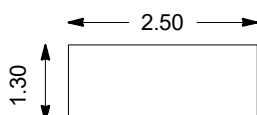
JCB


TRIAL PIT LOG

Contract: Project Cronus			Client: Tata Steel UK Ltd		Trial Pit: TP27
Contract Ref: 315075	Start: 17.01.22 End: 17.01.22	Ground Level (m AOD): ---	National Grid Co-ordinate: E:277758.0 N:185737.0		Sheet: 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. 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).	0.05 (0.95) 1.00	
						Trial pit terminated at 1.00m depth.		

Plan (Not to Scale)



General Remarks

1. Terminated due to pit refusal.

All dimensions in metres

Scale: **1:25**

Method Used:

Machine dug

Plant Used:

Wheeled 360° excavator

Logged By:

RHorne

Checked By:

JCB 

TRIAL PIT LOG

Contract:		Client:		Trial Pit:	
Project Cronus		Tata Steel UK Ltd		TP28	
Contract Ref:	Start: 17.01.22	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:	
315075	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			MADE GROUND: Dark grey to black slightly 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			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.		

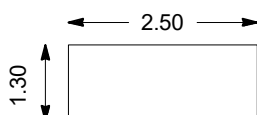
Plan (Not to Scale)		General Remarks	
A diagram showing a rectangle representing a plan view. The vertical dimension is labeled 1.30 and the horizontal dimension is labeled 2.50.		1. Terminated due to water ingress. 2. Water seepage at 2.20m depth.	
		All dimensions in metres	Scale: 1:25
Method Used:	Machine dug	Plant Used:	Wheeled 360° excavator Logged By: RHorne
		Checked By:	JCB

TRIAL PIT LOG

Contract: Project Cronus			Client: Tata Steel UK Ltd		Trial Pit: TP29
Contract Ref: 315075	Start: 17.01.22 End: 17.01.22	Ground Level (m AOD): ---	National Grid Co-ordinate: E:277723.0 N:185709.0		Sheet: 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 slightly 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)	
1.90-1.90 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:

Machine dug

Plant Used:

Wheeled 360° excavator

Logged By:

RHorne

Checked By:

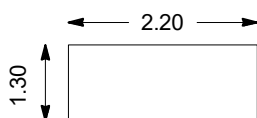
JCB 

TRIAL PIT LOG

Contract: Project Cronus			Client: Tata Steel UK Ltd		Trial Pit: TP30
Contract Ref: 315075	Start: 17.01.22 End: 17.01.22	Ground Level (m AOD): ---	National Grid Co-ordinate: E:277644.0 N:185580.0		Sheet: 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:

Machine dug

Plant Used:

Wheeled 360° excavator

Logged By:

RHorne

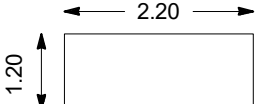
Checked By:

JCB
AGS

TRIAL PIT LOG

Contract:		Client:		Trial Pit:	
Project Cronus		Tata Steel UK Ltd		TP31	
Contract Ref:		Start: 17.01.22	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:
315075		End: 17.01.22	---	E:277828.0 N:185588.0	1 of 1

[illegible]

Plan (Not to Scale) 		General Remarks 1. Terminated due to pit refusal.	
		All dimensions in metres	Scale: 1:25
Method Used: Machine dug	Plant Used: Wheeled 360° excavator	Logged By: RHorne	Checked By: JCB 

TRIAL PIT LOG

Contract:		Client:		Trial Pit:	
Project Cronus		Tata Steel UK Ltd		TP34	
Contract Ref:	Start: 14.01.22	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:	
315075	End: 14.01.22	---	E:277953.0 N:185632.0	1 of 1	

[illegible]

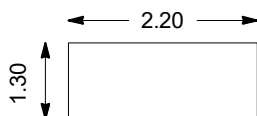
Plan (Not to Scale) 		General Remarks	
		1. Terminated due to refusal at 1.40m.	
		All dimensions in metres	Scale: 1:25
Method Used: Machine dug	Plant Used: Wheeled 360° excavator	Logged By: RHorne	Checked By: JCB

TRIAL PIT LOG

Contract: Project Cronus		Client: Tata Steel UK Ltd		Trial Pit: TP42
Contract Ref: 315075	Start: 10.01.22 End: 10.01.22	Ground Level (m AOD): ---	National Grid Co-ordinate: E:278434.0 N:185381.0	Sheet: 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 soft brown slightly sandy CLAY. Sand is fine. With abundant rootlets (2mm x 8mm). Soft greyish brown silty CLAY.	0.20 (0.30) 0.50	
1.00-1.50	2	B				Soft slightly sandy silty CLAY. Sand is fine.	(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:

Machine dug

Plant Used:

13 Ton Tracked Excavator

Logged By:

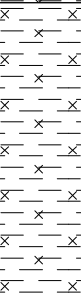
RHorne

Checked By:

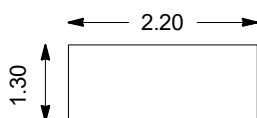
JCB 

TRIAL PIT LOG

Contract: Project Cronus		Client: Tata Steel UK Ltd		Trial Pit: TP43
Contract Ref: 315075	Start: 10.01.22 End: 10.01.22	Ground Level (m AOD): ---	National Grid Co-ordinate: E:278478.0 N:185325.0	Sheet: 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	3	ES PID	1xT+1xJ+1xV 0.0ppm			Soft brownish grey to blueish grey sandy SILT. Sand is fine.	1.50	
2.00-2.25	4	B				... 2.25m to 3.50m; blueish grey.	(2.00)	
3.00-3.50	5	B					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:

Machine dug

Plant Used:

13 Ton Tracked Excavator

Logged By:

RHorne

Checked By:

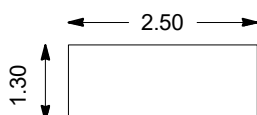
JCB 

TRIAL PIT LOG

Contract: Project Cronus		Client: Tata Steel UK Ltd		Trial Pit: TP44
Contract Ref: 315075	Start: 10.01.22 End: 10.01.22	Ground Level (m AOD): ---	National Grid Co-ordinate: E:278404.0 N:185269.0	Sheet: 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	1	ES	1xT+1xJ+1xV			TOPSOIL. Grass over soft brown slightly sandy CLAY. Sand is fine.	0.25	
0.30-0.50	2	B	0.0ppm			Soft greyish brown silty CLAY.	0.50	
0.30		PID				Firm brownish grey silty CLAY.	(1.40)	
1.50-2.00	4	B					1.90	
2.00-2.00	3	ES	0.0ppm			Soft greyish brown to blueish grey CLAY. With abundant decaying rootlets (<1mm x 6mm).	(1.60)	
2.00		PID				... 2.20m to 3.50m; blueish grey.		
3.00-3.50	6	B					3.50	
3.50-3.50	5	ES	1xT+1xJ+1xV			Trial pit terminated at 3.50m depth.		
3.50		PID	0.0ppm					

Plan (Not to Scale)



General Remarks

1. Water seepage at 2.00m depth.

All dimensions in metres

Scale: **1:25**

Method Used:

Machine dug

Plant Used:

13 Ton Tracked Excavator

Logged By:

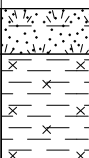
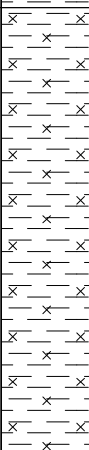
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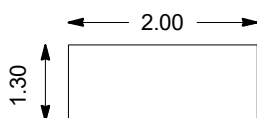
JCB
AGS

TRIAL PIT LOG

Contract: Project Cronus		Client: Tata Steel UK Ltd		Trial Pit: TP45
Contract Ref: 315075	Start: 11.01.22 End: 11.01.22	Ground Level (m AOD): ---	National Grid Co-ordinate: E:278297.0 N:185227.0	Sheet: 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 sof y brown slightly sandy CLAY. Sand is fine. With abundant rootlets (2mm x 10mm). Soft greyish brown mottled orange silty CLAY.	0.15 (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) 3.50	
3.00-3.00 3.00	4	ES PID	1xT+1xJ+1xV 0.1ppm			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:

Machine dug

Plant Used:

Wheeled 360° excavator

Logged By:

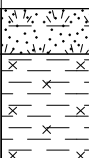
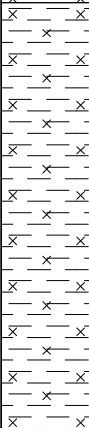
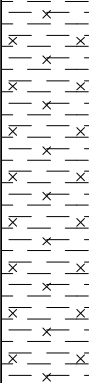
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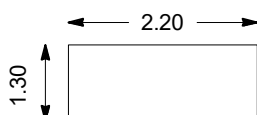
JCB 

TRIAL PIT LOG

Contract: Project Cronus		Client: Tata Steel UK Ltd		Trial Pit: TP46
Contract Ref: 315075	Start: 11.01.22 End: 11.01.22	Ground Level (m AOD): ---	National Grid Co-ordinate: E:278166.0 N:185153.0	Sheet: 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			TOPSOIL. Grass over sof y brown slightly sandy CLAY. Sand is fine. With abundant rootlets (2mm x 10mm). Soft light greyish brown mottled orangish brown silty CLAY.	0.15 (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).		
1.50-1.50 1.50	3	ES PID	0.1ppm			... 2.00m to 3.50m; blueish grey.	(2.70)	
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:

Machine dug

Plant Used:

Wheeled 360° excavator

Logged By:

RHorne

Checked By:

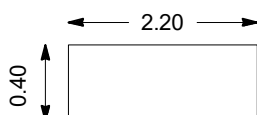
JCB 

TRIAL PIT LOG

Contract: Project Cronus		Client: Tata Steel UK Ltd		Trial Pit: TP47
Contract Ref: 315075	Start: 11.01.22 End: 11.01.22	Ground Level (m AOD): ---	National Grid Co-ordinate: E:278078.0 N:185161.0	Sheet: 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	1xT+1xJ+1xV 0.0ppm			TOPSOIL. Grass over soft brown slightly sandy CLAY. Sand is fine. With abundant rootlets (3mm x 20mm).	0.15	
0.10						Soft to firm light greyish brown mottled orange silty CLAY.	(0.35)	
0.30-0.30	2	D					0.50	
								
								
								
1.50-1.50	3	ES B	1xT+1xJ+11xV			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)	
1.50-2.00	4	PID	0.0ppm				2.00	
1.50								
								
								
								
3.00-3.00	5	D				Soft blueish grey silty CLAY. With frequent decaying rootlets (3mm x 12mm).	(1.20)	
3.20-3.20	6	ES PID	1xT+1xJ+1xV				3.20	
3.20			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:

Machine dug

Plant Used:

Wheeled 360° excavator

Logged By:

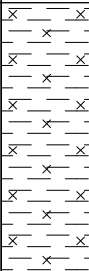
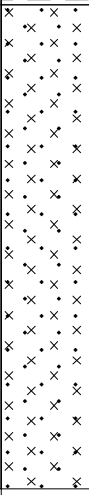
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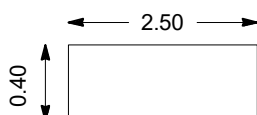
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TRIAL PIT LOG

Contract: Project Cronus		Client: Tata Steel UK Ltd		Trial Pit: TP48
Contract Ref: 315075	Start: 11.01.22 End: 11.01.22	Ground Level (m AOD): ---	National Grid Co-ordinate: E:277936.0 N:185071.0	Sheet: 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	1	ES PID	1xT+1xJ+1xV 0.1ppm			TOPSOIL. Grass over soft brown slightly sandy CLAY. Sand is fine. With abundant rootlets (3mm x 20mm). Soft light greyish brown mottled orangish brown CLAY.	0.15 (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				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:

Machine dug

Plant Used:

Wheeled 360° excavator

Logged By:

RHorne

Checked By:

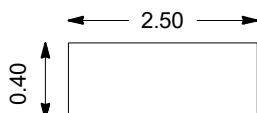
JCB 

TRIAL PIT LOG

Contract: Project Cronus		Client: Tata Steel UK Ltd		Trial Pit: TP49
Contract Ref: 315075	Start: 11.01.22 End: 11.01.22	Ground Level (m AOD): ---	National Grid Co-ordinate: E:277860.0 N:185236.0	Sheet: 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	1xT+1xJ+1xV 0.0ppm			TOPSOIL. Grass over soft brown slightly sandy CLAY. Sand is fine. With abundant rootlets (3mm x 15mm).	0.20	
0.10						Soft light greyish brown mottled orange slightly sandy silty CLAY. Sand is fine.	(0.30)	
0.40-0.40	2	D				Grey firm silty CLAY.	0.50	
1.00-1.00	3	D					(0.70)	
2.00-2.00	4	ES B PID	0.0ppm			Soft blueish grey sandy SILT. Sand is fine.	1.20	
2.00-2.50	5						(1.30)	
2.00							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:

Machine dug

Plant Used:

Wheeled 360° excavator

Logged By:

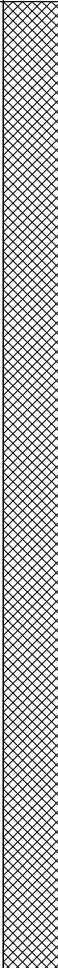
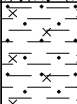
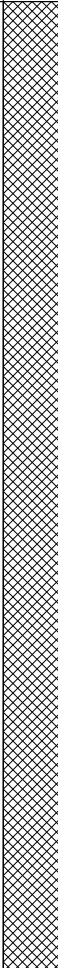
RHorne

Checked By:

JCB
AGS

TRIAL PIT LOG

Contract:		Client:		Trial Pit:	
Project Cronus		Tata Steel UK Ltd		TP50	
Contract Ref:	Start: 11.01.22	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:	
315075	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					
0.30-0.30 0.30	1	ES PID	1xT+1xJ+1xV 0.0ppm			TOPSOIL. Grass over sof y brown slightly sandy CLAY. Sand is fine. With abundant rootlets (2mm x 10mm).	0.15	
						Soft light greyish brown mottled orange aightky sandy silty CLAY. Sand is fine.	(0.35)	
0.70-0.70 0.70	2	ES PID	1xT+1xJ+1xV 0.0ppm			Soft greyish brown mottled orange aightky sandy silty CLAY. Sand is fine. With frequent decaying rootlets (<1mm x 8mm).	(1.50)	
1.00-1.50	3	B						
2.20-2.20 2.20	4	ES PID	0.0ppm					
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.	
Method Used: Machine dug		Plant Used: 13 Ton Tracked Excavator	
All dimensions in metres		Scale: 1:25	
Logged By: RHorne		Checked By: JCB	

TRIAL PIT LOG

Contract: Project Cronus			Client: Tata Steel UK Ltd		Trial Pit: TP51	
Contract Ref: 315075		Start: 18.01.22 End: 18.01.22	Ground Level (m AOD): ---	National Grid Co-ordinate: E:277462.0 N:186177.0		Sheet: 1 of 1

[illegible]

Plan (Not to Scale) Diagram showing a rectangular pit with a width of 2.50 and a depth of 1.30.		General Remarks 1. Terminated due to water ingress.	
Method Used: Machine dug		All dimensions in metres Scale: 1:25	
Plant Used: Wheeled 360° excavator		Logged By: RHorne	
Checked By: JCB		AGS	

TRIAL PIT LOG

Contract:		Client:		Trial Pit:	
Project Cronus		Tata Steel UK Ltd		TP53	
Contract Ref:	Start: 18.01.22	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:	
315075	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	 		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	

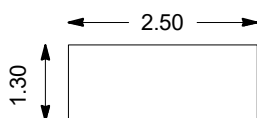
Plan (Not to Scale)		General Remarks 1. Terminated due to water ingress and refusal.	
		All dimensions in metres	Scale: 1:25
Method Used: Machine dug	Plant Used: Wheeled 360° excavator	Logged By: RHorne	Checked By: JCB

TRIAL PIT LOG

Contract: Project Cronus			Client: Tata Steel UK Ltd		Trial Pit: TP54
Contract Ref: 315075	Start: 18.01.22 End: 18.01.22	Ground Level (m AOD): ---	National Grid Co-ordinate: E:277555.0 N:185997.0		Sheet: 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 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)	
1.10-1.10 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).	1.00 1.20	

Plan (Not to Scale)



General Remarks

1. Terminated due to pit refusal.

All dimensions in metres

Scale: **1:25**

Method Used:

Machine dug

Plant Used:

Wheeled 360° excavator

Logged By:

RHorne

Checked By:

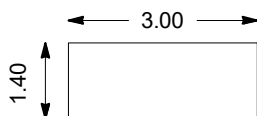
JCB


TRIAL PIT LOG

Contract: Project Cronus			Client: Tata Steel UK Ltd		Trial Pit: TP55
Contract Ref: 315075	Start: 19.01.22 End: 19.01.22	Ground Level (m AOD): ---	National Grid Co-ordinate: E:277846.0 N:185723.0		Sheet: 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 slightly 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)	
0.70-0.70 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)	
1.60-1.60 1.60	4	ES PID	1xT+1xJ+1xV 0.4ppm			MADE GROUND: Dark grey slightly silty slightly 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)	
2.50-2.50 2.50-3.00 2.50	5 6	ES B PID	1xT+1xJ+1xV 0.1ppm			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:

Machine dug

Plant Used:

Wheeled 360° excavator

Logged By:

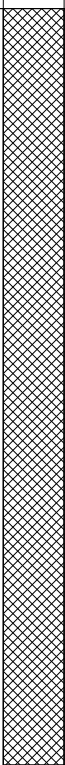
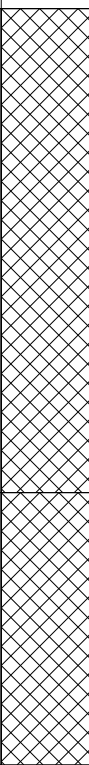
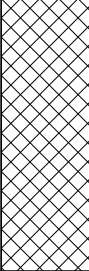
RHorne

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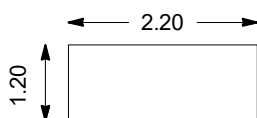
JCB
AGS

TRIAL PIT LOG

Contract: Project Cronus		Client: Tata Steel UK Ltd		Trial Pit: TP56
Contract Ref: 315075	Start: 12.01.22 End: 12.01.22	Ground Level (m AOD): ---	National Grid Co-ordinate: E:278002.0 N:185683.0	Sheet: 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			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)	
1.50-2.00	3	B				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).	1.60 (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:

Machine dug

Plant Used:

Wheeled 360° excavator

Logged By:

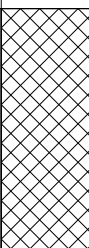
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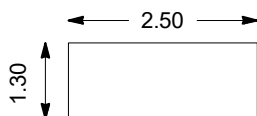
JCB
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TRIAL PIT LOG

Contract: Project Cronus		Client: Tata Steel UK Ltd		Trial Pit: TP57
Contract Ref: 315075	Start: 12.01.22 End: 12.01.22	Ground Level (m AOD): ---	National Grid Co-ordinate: E:278029.0 N:185645.0	Sheet: 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			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:

Machine dug

Plant Used:

Wheeled 360° excavator

Logged By:

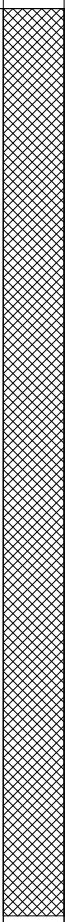
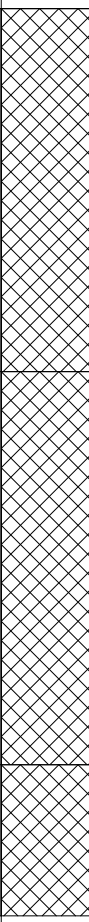
RHorne

Checked By:

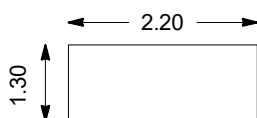
JCB
AGS

TRIAL PIT LOG

Contract: Project Cronus			Client: Tata Steel UK Ltd		Trial Pit: TP58
Contract Ref: 315075	Start: 14.01.22 End: 14.01.22	Ground Level (m AOD): ---	National Grid Co-ordinate: E:277956.0 N:185597.0		Sheet: 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 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)	
1.50-2.00	3	B				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 (<200mm x 350mm x 450mm).	1.20 (1.30)	
2.80-2.80 2.80-3.00	4 5	ES B PID	1xT+1xJ+1xV 1.0ppm			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.	2.50 (0.50)	
3.00							3.00	

Plan (Not to Scale)



General Remarks

1. Terminated due to water ingress.

All dimensions in metres

Scale: **1:25**

Method Used:

Machine dug

Plant Used:

Wheeled 360° excavator

Logged By:

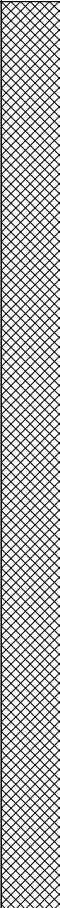
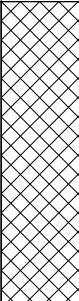
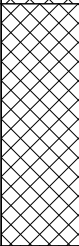
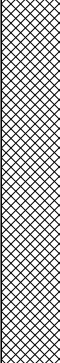
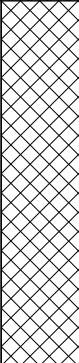
RHorne

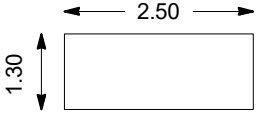
Checked By:

JCB
AGS

TRIAL PIT LOG

Contract:		Client:		Trial Pit:	
Project Cronus		Tata Steel UK Ltd		TP59	
Contract Ref:	Start: 14.01.22	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:	
315075	End: 14.01.22	---	E:278296.0 N:185633.0	1 of 1	

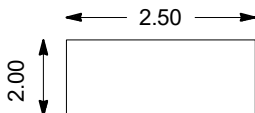
Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thick ness)	Material Graphic Legend
Depth	No	Type	Results					
0.20-0.20 0.20-0.60 0.20	1 2	ES B PID	1xT+1xJ+1xV 0.6ppm			MADE GROUND: Dark grey sandy GRAVEL with medium cobble content. Sand is fine to coarse. Gravel is angular 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				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: Machine dug	Plant Used: Wheeled 360° excavator	Logged By: RHorne	Checked By: JCB

TRIAL PIT LOG

Contract: Project Cronus			Client: Tata Steel UK Ltd		Trial Pit: TP60
Contract Ref: 315075	Start: 14.01.22 End: 14.01.22	Ground Level (m AOD): ---	National Grid Co-ordinate: E:277791.0 N:185878.0		Sheet: 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	

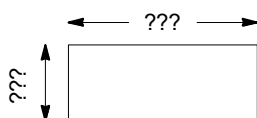
Plan (Not to Scale)		General Remarks			
		1. Trial pit was unstable below 0.6 m depth. 2. Terminated due to pit instability.			
		All dimensions in metres		Scale:	1:25
Method Used: Machine dug	Plant Used: Wheeled 360° excavator	Logged By: RHorne	Checked By: JCB		

TRIAL PIT LOG

Contract: Project Cronus		Client: Tata Steel UK Ltd		Trial Pit: TP61
Contract Ref: 315075	Start: 14.01.22 End: 14.01.22	Ground Level (m AOD): ---	National Grid Co-ordinate: E:278221.0 N:185715.0	Sheet: 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)	
1.20-1.20 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)	
3.00-3.00 3.00-3.10 3.00	5 6	ES D PID	1xT+1xJ+1xV 0.5ppm			Soft grey mottled orange clayey SILT.	(1.50)	
							3.50	

Plan (Not to Scale)



General Remarks

All dimensions in metres

Scale: **1:25**

Method Used:

Machine dug

Plant Used:

Wheeled 360° excavator

Logged By:

RHorne

Checked By:

JCB 

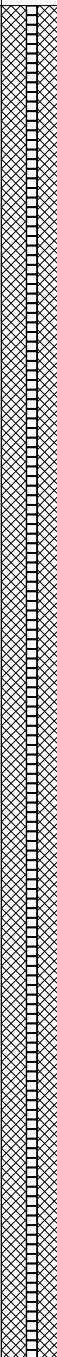
BOREHOLE LOG

Contract: EAF Meltshop Project			Client: TATA Steel		Borehole: BH301
Contract Ref: 315531	Start: 16.07.24 End: 22.07.24	Ground Level: ---	National Grid Co-ordinate: E:277248.0 N:186672.0		Sheet: 1 of 3

Depth (m)	Samples & Testing			Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
	No	Type	Results					
0.50 0.50	1	ES PID	0.0ppm			ASPHALT. MADE GROUND: Greyish brown sandy silty angular fine to coarse GRAVEL of concrete, brick and metal. Sand is fine to coarse. . . . Service located in north end of the inspection pit at 0.25m depth. 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.	0.20 0.50	▲▲▲
2.00 2.00	2	ES PID	0.0ppm				(2.50)	
3.50-4.00 3.50 3.50	1 3	B ES PID	0.0ppm					
4.00-4.45 4.00-4.45	1 2	SPT D	N=10					
4.50-5.00	3	B						
5.00-5.45 5.00-5.45 5.00 5.00-5.50 5.00 5.50-6.00	2 4 4 5 5 6	SPT(c) D ES B PID B	N=14 0.0ppm					
6.00-6.45 6.00-6.45 6.00-6.50	3 7 8	SPT(c) D B	N=11			Medium dense becoming loose dark grey fine to coarse SAND. (BLOWN SAND)	(6.00)	
7.00-7.50	9	B						
7.50-7.95 7.50-7.95	4 10	SPT D	N=4					
8.50-9.00	11	B					9.00	

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)	
									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.
Method Used: Inspection pit + Cable Percussion						Plant Used: Dando 3000			All dimensions in metres Scale: 1:50
Drilled By: CJA						Logged By: Jagan Raj			Checked By:  AGS

Contract: EAF Meltshop Project			Client: TATA Steel		Borehole: BH301
Contract Ref: 315531		Start: 16.07.24 End: 22.07.24	Ground Level: ---	National Grid Co-ordinate: E:277248.0 N:186672.0	Sheet: 2 of 3

Depth (m)	Samples & Testing			Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
	No	Type	Results					
9.00-9.45 9.00 9.00 9.45-9.60	12 5 13	U ES PID D	0.0ppm			Firm greenish grey sandy silty CLAY. Sand is fine to coarse. (TIDAL FLAT DEPOSITS) ... Frequent pockets of brown pseudo fibrous peat.	(6.00)	
10.00-10.50	14	B	N=11					
10.50-10.95 10.50-10.95	5 15	SPT(c) D						
11.50-12.00	16	B						
12.00-12.45	17	U						
12.45-12.60	18	D	N=5					
13.00-13.50	19	B						
13.50-13.95 13.50-13.95	6 20	SPT(c) D						
14.50-15.00	21	B						
15.00-15.45	22	U	N=11					
15.45-15.60	23	D						
16.00-16.50	24	B						
16.50-16.95 16.50-16.95	7 25	SPT(c) D						
17.50-18.10	26	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)						
Method Used:		Inspection pit + Cable Percussion		Plant Used:			Dando 3000		Drilled By:	CJA	Logged By:	Jagan Raj	Checked By:	 

Contract: EAF Meltshop Project			Client: TATA Steel		Borehole: BH301
Contract Ref: 315531		Start: 16.07.24 End: 22.07.24	Ground Level: ---	National Grid Co-ordinate: E:277248.0 N:186672.0	Sheet: 3 of 3

Depth (m)	Samples & Testing			Backfill & Instru- mentation	Water	Description of Strata	Depth (Thick- ness)	Material Graphic Legend
	No	Type	Results					
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)		
18.10-18.36	27	D				19.00		
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) D	N=20			19.81		
19.50-19.81	29					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) B	N=32			(0.60)		
24.00-24.50	37					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).		24.60
24.60-24.75	12	SPT(c)	25/50 for 75mm			25.05		
24.60-24.63	38	D	Recovered as very dense yellowish brown and grey subangular to subrounded fine to coarse GRAVEL of sandstone. (Weathered South Wales Middle Coal Measures Formation). ... 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						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:	Inspection pit + Cable Percussion			Plant Used:	Dando 3000		Drilled By:	CJA		Logged By: Jagan Raj	Checked By:  AGS

BOREHOLE LOG

Contract: EAF Meltshop Project			Client: TATA Steel		Borehole: BH302
Contract Ref: 315531	Start: 05.08.24 End: 07.08.24	Ground Level: ---	National Grid Co-ordinate: E:277244.0 N:186703.0		Sheet: 1 of 1

Depth (m)	Samples & Testing			Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
	No	Type	Results					
0.40-0.90 0.50 0.50	B1 ES1	B ES PID	0.0ppm			Grey strong CONCRETE. 75% aggregates of subrounded to subangular fine to medium of mudstone. 1 to 3% small voids. No reinforcement identified.	0.20	
1.00 1.00 1.20-1.65	ES2 1	ES PID SPT(c)	0.0ppm N=35			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.	(3.40)	
1.50 1.50	ES3	ES PID	0.0ppm					
2.00-2.45	2	SPT(c)	N=21					
2.50-3.10 2.50 2.50	B3 ES4	B ES PID	0.0ppm					
3.00-3.45	3	SPT(c)	N=14					
3.50-4.10 3.60 3.60	B4 ES5	B ES PID	0.0ppm			Medium dense occasionally loose greyish brown silty fine to coarse SAND. (Tidal Flats Deposits)	3.60	
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 5.50 5.50	B6 ES6	B ES PID	0.0ppm					
6.00-6.45	6	SPT(c)	N=8					
6.50	B7	B				Firm greyish brown slightly sandy silty CLAY. Sand is fine to coarse. (Tidal Flats Deposits)	6.50 (0.80)	
						Borehole terminated at 7.30 m bgl due to ferrous anomaly (UXO risk).	7.30	

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)	
									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.
Method Used: Inspection pit + Cable Percussion						Plant Used: Dando 4000			All dimensions in metres Scale: 1:50
Drilled By: CJA						Logged By: Cameron Little			Checked By:  AGS

BOREHOLE LOG

Contract: EAF Meltshop Project			Client: TATA Steel		Borehole: BH302A
Contract Ref: 315531	Start: 19.09.24	Ground Level: ---	National Grid Co-ordinate: ---	Sheet: 1 of 4	
	End: 25.09.24				

Depth (m)	Samples & Testing			Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
	No	Type	Results					
0.20		PID	0.0ppm			CONCRETE.	0.20	
0.30-0.90	1	B				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.		
0.50	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) ... Possible that gravel and cobbles pushed down from above by drilling process.		
2.60-3.00	3	B					(0.90)	
2.60	3	PID	0.1ppm					
3.00-3.45	3	SPT(c)	N=9				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	4	PID	0.1ppm				(2.00)	
4.00-4.45	4	SPT(c)	N=6					
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	6	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	7	PID	0.0ppm				(2.10)	
7.50-8.00	8	U	14 blows				8.50	
8.50-9.00	9	B				Description on next sheet		
8.50	9	PID	0.0ppm					

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)	
									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.
Method Used: Cable Percussion						Plant Used: Dando 4000			All dimensions in metres Scale: 1:50
Drilled By: CJA						Logged By: Jagan Raj			Checked By:  AGS

Contract:		Client:		Borehole:
EAF Meltshop Project		TATA Steel		BH302A
Contract Ref:	Start: 19.09.24	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	End: 25.09.24	---	---	2 of 4

Depth (m)	Samples & Testing			Backfill & Instru- mentation	Water	Description of Strata	Depth (Thick- ness)	Material Graphic Legend				
	No	Type	Results									
9.00-9.45 9.00-9.45	7 10	SPT(c) D	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) <i>(stratum copied from 8.50m from previous sheet)</i>	(2.20)					
10.00-10.50 10.00	11	B PID	0.0ppm									
10.50-10.95 10.70	12	U PID	41 blows 0.1ppm						10.70			
10.95-11.05 11.10-11.60	13 14	D B				(2.30)	Soft to firm dark brown mottled grey slightly clayey fibrous PEAT. (Tidal Flat Deposits)					
12.00-12.45 12.00-12.45	8 15	SPT(c) D	N=7									
13.00-13.50 13.00	16	B PID	0.1ppm							13.00	Very soft grey to dark greyish brown silty CLAY. (Tidal Flat Deposits) ... Rare organic plant matter.	
13.50-13.95	17	U	24 blows									
13.95-14.05	18	D										
14.50-15.00	19	B										
15.00-15.45 15.00-15.45	9 20	SPT(c) D	N=1			(7.00)						
16.00-16.50	21	B										
16.50-16.95	22	U	31 blows									
17.50-18.00	23	B								... Dark greyish brown below 17.0m 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: Cable Percussion			Plant Used: Dando 4000			Drilled By: CJA		Logged By: Jagan Raj	Checked By: 	



BOREHOLE LOG

Contract: EAF Meltshop Project			Client: TATA Steel		Borehole: BH302A
Contract Ref: 315531	Start: 19.09.24 End: 25.09.24	Ground Level: ---	National Grid Co-ordinate: ---		Sheet: 3 of 4

Depth (m)	Samples & Testing			Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
	No	Type	Results					
18.00-18.45 18.00-18.45	10 24	SPT(c) D	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)		
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)	
21.00-21.45	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)	21.00	
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						Chiselling / Slow Progress			General Remarks	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)		

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BOREHOLE LOG

Contract: EAF Meltshop Project			Client: TATA Steel		Borehole: BH302A
Contract Ref: 315531	Start: 19.09.24 End: 25.09.24	Ground Level: ---	National Grid Co-ordinate: ---		Sheet: 4 of 4

Depth (m)	Samples & Testing			Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
	No	Type	Results					
27.00-27.15	15	SPT(c)	25/50 for 75mm					
27.30-27.45	16	SPT(c)	25/100 for 75mm			... Probable boulder. Refusal on probable boulder at 27.3m bgl.	27.45	

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)				
Method Used: Cable Percussion				Plant Used: Dando 4000			Drilled By: CJA		Logged By: Jagan Raj		Checked By: 	

BOREHOLE LOG

Contract: EAF Meltshop Project			Client: TATA Steel		Borehole: BH303A
Contract Ref: 315531	Start: 12.08.24	Ground Level: ---	National Grid Co-ordinate: E:277232.0 N:186730.0		Sheet: 1 of 4
End: 22.08.24					

Depth (m)	Samples & Testing			Backfill & Instrumentation	Water	Description of Strata	Depth (Thick ness)	Material Graphic Legend
	No	Type	Results					
0.00-0.05						ASPHALT	0.05	
0.05-0.55						Strong grey CONCRETE. 75% aggregate of angular to subrounded fine to coarse flint. Approximately 2 to 3% small voids.	(0.50)	
0.55-0.80						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	
0.80-1.20	1	ES B					(0.95)	
1.20-1.40	1	SPT(c)	7,18/39,11 for 15mm				1.50	
1.50-2.00	2	B				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)	
2.70-3.00	4	B					2.70	
3.00-3.45	3	SPT(c)	N=4			Loose and occasionally medium dense brown silty fine to medium SAND. (Tidal Flat Deposits)		
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					
6.70-7.50	8	B				Very soft to soft grey sandy silty CLAY. Sand is fine. (Tidal Flat Deposits)	6.70	
7.50-7.95	9	U	10 blows 100% recovery					
8.50-9.00	10	B					(4.10)	

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)	
									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.
Method Used: Inspection pit + Cable Percussion						All dimensions in metres			Scale: 1:50
Plant Used: Dando 4000						Drilled By: CJA			Logged By: Cameron Little
									Checked By: JB 



BOREHOLE LOG

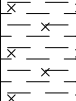
Contract: EAF Meltshop Project			Client: TATA Steel		Borehole: BH303A
Contract Ref: 315531	Start: 12.08.24 End: 22.08.24	Ground Level: ---	National Grid Co-ordinate: E:277232.0 N:186730.0		Sheet: 2 of 4

Depth (m)	Samples & Testing			Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
	No	Type	Results					
9.00-9.45	7	SPT	N=2			Very soft to soft grey sandy silty CLAY. Sand is fine. (Tidal Flat Deposits) <i>(stratum copied from 6.70m from previous sheet)</i>		
9.00-9.45	11	D						
10.00-10.50	12	B				Firm orangish brown to dark brown fibrous PEAT with a strong organic odour. (Tidal Flat Deposits)	10.80	
10.50-10.95	13	U	17 blows 100% recovery					
10.95-11.05	14	D						
11.50-12.00	15	B				Soft to firm dark grey silty CLAY. (Tidal Flat Deposits) ... Occasional pockets of pseudo-fibrous peat between 12.45m and 15.0m bgl.	(1.65)	
12.00-12.45	8	SPT	N=9					
12.00-12.45	16	D						
12.80-13.50	17	B				... Becomes very soft at 15.0m bgl.	(6.25)	
13.50-13.95	18	U	12 blows 100% recovery					
14.50-15.00	19	B						
15.00-15.45	9	SPT	N=2					
15.00-15.45	20	D						
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						Chiselling / Slow Progress			General Remarks
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)	
									4. Groundwater encountered at 2.64m depth.
Method Used: Inspection pit + Cable Percussion						Plant Used: Dando 4000			All dimensions in metres
						Drilled By: CJA			Scale: 1:50
						Logged By: Cameron Little			Checked By:

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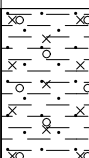
Contract:		Client:		Borehole:
EAF Meltshop Project		TATA Steel		BH303A
Contract Ref:	Start: 12.08.24	Ground Level:	National Grid Co-ordinate:	Sheet:
315531	End: 22.08.24	---	E:277232.0 N:186730.0	3 of 4

Depth (m)	Samples & Testing			Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
	No	Type	Results					
18.00-18.45 18.00-18.45	10 25	SPT D	N=4			Soft to firm dark grey silty CLAY. (Tidal Flat Deposits) ... Occasional pockets of pseudo-fibrous peat between 12.45m and 15.0m bgl. <i>(stratum copied from 12.45m from previous sheet)</i>	18.70	
18.70-19.50 19.00-19.45	26 33	B U	21 blows			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)	(3.30)	
19.50-19.88	11	SPT(c)	10,14/26,21,3 for 75mm					
20.50-21.00	27	B						
21.00-21.38	12	SPT(c)	9,12/19,22,9 for 75mm					
22.00-22.50 22.50-22.95	28 13	B SPT(c)	N=32			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.	22.00	(6.10) 
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						
26.50-27.00	31	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)			
Method Used:		Inspection pit + Cable Percussion		Plant Used:		Dando 4000		Drilled By:		CJA	
								Logged By:		Cameron Little	
								All dimensions in metres		Scale: 1:50	
								Checked By:		 	

BOREHOLE LOG

Contract: EAF Meltshop Project			Client: TATA Steel		Borehole: BH303A
Contract Ref: 315531	Start: 12.08.24 End: 22.08.24	Ground Level: ---	National Grid Co-ordinate: E:277232.0 N:186730.0		Sheet: 4 of 4

Depth (m)	Samples & Testing			Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
	No	Type	Results					
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)		