



e3p

Validation Report
Thompson Street, Manchester

Reference:12-729-R4-1
Date: November 2023



REMEDIATION AND ENABLING WORKS VALIDATION

Thompson Street
Manchester
M4 5FY

Prepared for:

Mulbury City

Report Ref: 12-729-R4-1

Date Issued: November 2023

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1. INTRODUCTION

1.1. BACKGROUND

This report details the remediation and enabling works operations that were undertaken by ADM Regeneration under the supervision of E3P to facilitate the preparation of the high-rise residential development on a parcel of land located off Thompson Street, Manchester; herein referred to as the site.

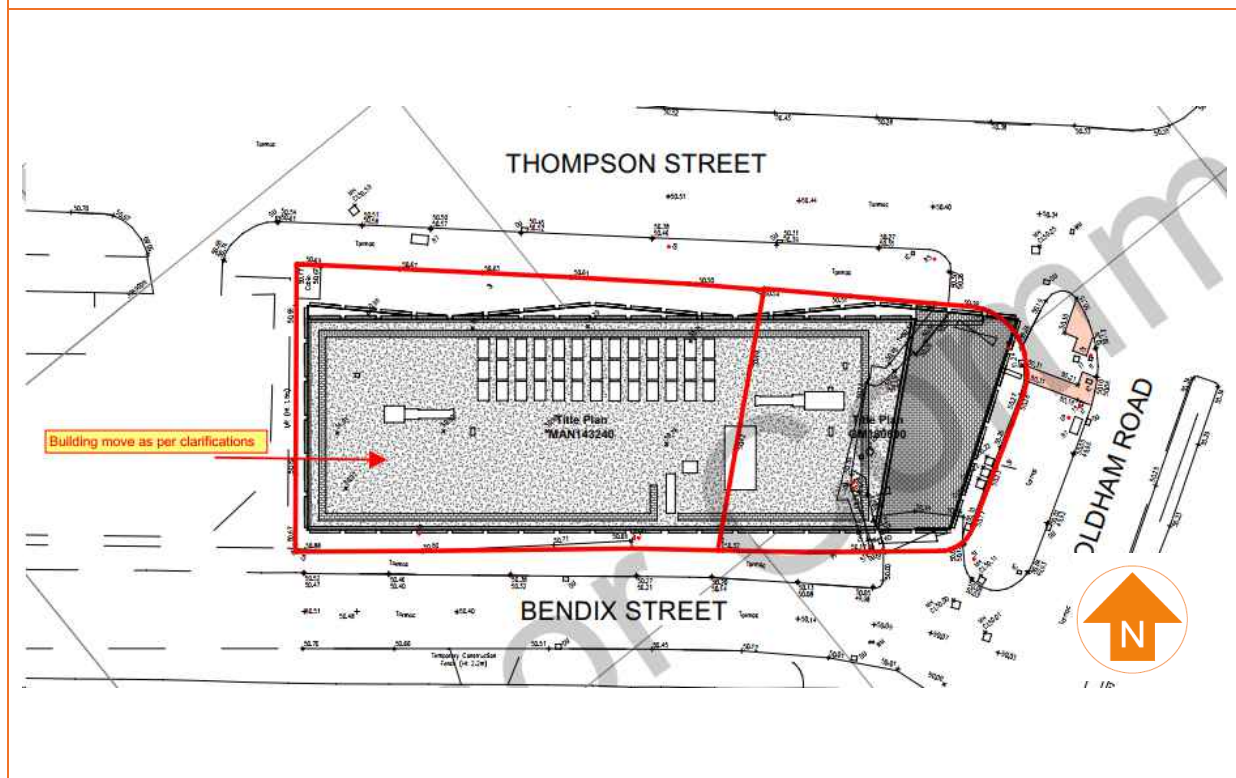
E3P were instructed by Ridge and Partners LLP, on behalf of their client (Mulbury City), as independent Geo-Environmental Consultant for the site remediation, preparation / enabling and validation works and the subsequent production of a suitably detailed report to ensure the satisfaction of the relevant planning conditions and geotechnical engineering requirements for Building Control, warranty providers and the future adoption of infrastructure by the Highways Authority and statutory service providers.

1.2. PROPOSED DEVELOPMENT

The scheme will involve the demolition of existing buildings and redevelopment of the site for a 12-storey residential building (Use Class C3) comprising 161 residential units, with ground floor commercial use (Use Class A1, A2, A3, B1, and / or D1 (excluding Places of Worship)), disabled car parking, with highways, landscaping and other associated works.

The Proposed Development Layout is indicated in Figure 1.1.

FIGURE 1.1 SNAPSHOT OF PROPOSED DEVELOPMENT



1.3. SUMMARY OF PARTIES INVOLVED

Function/interest	Name of Party
Local Planning Authority	Manchester City Council
Developer	Mulbury City
Geoenvironmental Consultant	E3P
Main Contractor	ADM Regeneration
Remediation/Enabling Works Contractor	ADM Regeneration
Human Health Regulator	Manchester City Council
Controlled Waters and Waste Regulator	Environment Agency
Highways Adoption Authority	Manchester City Council

1.4. PREVIOUS WORKS

The following previous phases of site investigation and assessment have been completed at the subject site:

-  **E3P** - *Phase I Geo-Environmental Site Assessment*. Ref No: 12-729-R1, dated December 2019. Prepared for Mulbury City; and
-  **E3P** - *Phase II Geo-Environmental Site Assessment*. Ref No: 12-729-R2, dated February 2021. Prepared for Mulbury City.

These documents were utilised to develop the following Remediation and Enabling Works Strategy:

-  **E3P** – *Remediation and Enabling Works Strategy*. Ref No: 12-729-R3-2, dated January 2022. Prepared for Mulbury City.

The above documents should be read in conjunction with this Validation Report.

1.5. REGULATORY CORRESPONDENCE

E3P understands the Remediation and Enabling Works Strategy was submitted to Manchester City Council by Mulbury City.

The Planning Application No. for the scheme is 125681/FO/2019.



2. SUMMARY OF REMEDIATION AND ENABLING WORKS OBJECTIVES

The proposed remediation activities were detailed within the E3P Remediation and Enabling Works Strategy (12-729-R3-2; dated January 2022) and supplementary supporting documents provided by E3P.

This report has been prepared to document the completion of all necessary land remediation and enabling works and to record the presence of any variation in ground conditions or previously unidentified sources of potential contamination, environmental impact or potential nuisance to the wider environ.

The Remediation and Enabling Works elements are summarised below:

- ✿ RE-1 – Pre-commencement Regulatory Compliance
- ✿ RE-2 – Risk to Infrastructure
- ✿ RE-3 – Supplementary Trail Pitting and Chemical Analysis of Made Ground
- ✿ RE-4 – Environment and Nuisance Control
- ✿ RE-5 – Identification, Isolation and Treatment of Invasive Plants
- ✿ RE-6 – Site Clearance Operations
- ✿ RE-7 – Excavation, Breaking and Processing of All Above and Below Ground Structures and Made Ground
- ✿ RE-8 – Excavation, Delineation & Validation of Mercury Hotspots
- ✿ RE-9 – Removal of Deleterious Material
- ✿ RE-10 – Construction of Temporary Working Platform
- ✿ RE-11 – Replacement of Materials, Geotechnical Engineering Requirements
- ✿ RE-12 – Preparation of Peripheral Landscaped Areas for Cover System
- ✿ RE-13 – Provision of Subsoil
- ✿ RE-14 – Provision of Topsoil
- ✿ RE-15 – Independent Validation: Watching Brief
- ✿ RE-16 – Waste Soils Surplus to Requirement
- ✿ RE-17 – Validation of Materials for Potable Water Supply Infrastructure
- ✿ RE-18 – Remedial Verification Report

A historical tank farm was uncovered during the demolition of the building, lifting of foundations and slabs and the Made Ground turnover across the site. This formed an additional item for the remedial works, which tied in with the removal of hotspot WS106 (RE-8).

3. SECOND PHASE MITIGATION AND MANAGEMENT – BUILD PHASE

A second post demolition phase of works will be required to ensure the proposed development is constructed in a manner that incorporates the required mitigation measures to ensure the development is compliant with UK Building Regulations and the Local Authority Planning requirements.

These obligations are specified in more detail within Section 5.



4. DETAILED REMEDIATION AND ENABLING WORKS ACTIVITIES

The focus of the remediation and enabling works are to address the contaminant issues previously identified within the site investigations that presented an unacceptable risk to human health following the redevelopment of the site.

For completeness, each of these activities has been discussed below within the context of the actual remediation works that were undertaken on site.

The Remediation & Site Enabling works commenced in October 2021 and are ongoing.

RE-1 – PRE-COMMENCEMENT REGULATORY COMPLIANCE

DATE OF WORKS UNDERTAKEN

Throughout works.

OVERVIEW OF WORKS

Planning permission has been granted (Application No. 125681/FO/2019) by Manchester City Council for the erection of a ground plus 12-storey residential building (Use Class C3) comprising 161 residential units, with ground floor commercial use (Use Class A1, A2, A3, B1, and / or D1 (excluding Places of Worship)) (160sqm) or ancillary residents lounge, disabled car parking, with highways, landscaping and other associated works following demolition of existing buildings.

Regulatory correspondence was obtained confirming the conditional acceptance of the Remediation and Enabling Works Strategy.
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ADM Regeneration registered the site for both a U1 and T5 exemption (WEX280563).
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RE-2 – RISK TO INFRASTRUCTURE

DATE OF WORKS UNDERTAKEN

Throughout works

OVERVIEW OF WORKS

Works carried out in the vicinity of any boundaries were carefully monitored by the site manager to ensure structures or infrastructure that was to remain on-site or within close proximity to the site such as property boundaries and highways were not undermined to cause unnecessary disturbance.

All utility infrastructure was disconnected prior to works in the area of known services.

Overall, the site works were completed in a manner that ensured no risk of disturbance to the adjacent infrastructure.
--



RE-3 – SUPPLEMENTARY TRIAL PITTING AND CHEMICAL ANALYSIS OF MADE GROUND

DATE OF WORKS UNDERTAKEN

09/05/2021

PHOTOGRAPHS

Plate 1 and 2.

CHEMICAL TESTING

I2 Analytical Report 21-21003-1 (MG101, MG102 and MG103).
I2 Analytical Report 21-25755-1 (MG201, MG202 and MG203). ASB
I2 Analytical Report 21-27903-1 (MG301, MG302 and MG303). ASB PAH

OVERVIEW OF WORKS

Upon the demolition of the former industrial structure in the southeastern portion of the site, nine additional samples of the Made Ground soils were collected from within the footprint of the building and from within the areas of Made Ground turnover across the site.

In addition to the laboratory analysis, on the spot PID measurements were taken across this area. All readings being 0.0ppm, indicating the absence of any volatile contamination within the Made Ground soils underlying the former structure.

The i2 Analytical reports indicates there is no further contamination within these soils that cannot be mitigated via the placement of the materials beneath the proposed building structure and therefore no further remedial action was deemed necessary.

RE-4 – ENVIRONMENT AND NUISANCE CONTROL

DATE OF WORKS UNDERTAKEN

Throughout works.

OVERVIEW OF WORKS

During remediation, works were restricted to between 8.00am and 5.30pm. A road sweeper was present to keep the access and surroundings highways and clear of debris during the earthworks at the site. Heras fencing was erected around the site boundary.

Dust suppression systems were used during the demolition of the existing structures to reduce the levels of dust and debris.

Temporary works were implemented as necessary to support excavations throughout the duration of the works.



RE-5 – IDENTIFICATION, ISOLATION AND TREATMENT OF INVASIVE PLANTS

DATE OF WORKS UNDERTAKEN

Throughout works.

OVERVIEW OF WORKS

No invasive species were identified onsite during the remediation and enabling works.

RE-6 – SITE CLEARANCE OPERATIONS

DATE OF WORKS UNDERTAKEN

October 2021 to December 2021.

PHOTOGRAPHS

Plate 1.

OVERVIEW OF WORKS

The existing building on site was demolished and all concrete slabs and asphalt hardstand lifted. Oversized materials were stockpiled for processing on site.

Throughout the enabling works scrap metal and general waste was separated from demolition materials and placed into allocated skips for subsequent disposal off-site.

RE-7 – EXCAVATION, BREAKING AND PROCESSING OF ALL ABOVE AND BELOW GROUND STRUCTURES AND MADE GROUND

DATE OF WORKS UNDERTAKEN

October 2021 to December 2021.

PHOTOGRAPHS

Plate 2.

CHEMICAL TESTING

I2 Analytical Report – 21-23013-1; November 2023 (BS/CR/01 & BS/CR/02).

GEOTECHNICAL TESTING

MRN 4069-261; November 2021 (BS/CR/01 & BS/CR/02).

OVERVIEW OF WORKS

All sub-structures were excavated using controlled mechanical techniques under the strict control of the ADM site manager with E3P in part time supervision.

The site was subject to a turnover to the top of natural stratum to ensure the full removal and excavation of all below ground obstructions and relict foundations. This process allowed for the removal of any oversize materials and the identification of any previously unidentified areas of contamination. Oversized materials and concrete were stockpiled prior to crushing/processing to nominal 6F2 grading, with chemical validation in accordance with the validation sampling protocol.



Any steel re-enforcements present within the concrete hardstanding, or waste in the form of wood, scrap metal, plastic was removed prior to the crushing of demolition material stockpiles and allocated to skips for subsequent disposal.

E3P maintained a part time watching brief during the turning and processing of the Made Ground to audit and validate the site enabling works in addition to inspecting all materials turned over and identifying any previously unidentified contamination hotspots, including asbestos containing materials (ACM).

Chemical analysis (BS/CR/01 and BS/CR/02) within laboratory report 21-23013 confirmed that the 6F2 was suitable for use within the proposed development. Chemical testing results are included in Appendix IV.

RE-8 – EXCAVATION, DELINEATION & VALIDATION OF MERCURY HOTSPOTS

DATE OF WORKS UNDERTAKEN

11/11/2021 and 25/11/2023.

PHOTOGRAPHS

Plate 3 to 109.

CHEMICAL TESTING

I2 Analytical Report – 21-2259-1; November 2021 (Tank Arising 101, Tank Arising 102, Tank Arising 103, Tank 1 N, Tank 1 E, Tank 1 S, Tank 1 W, Tank 2N, Tank 2 E, Tank 2 S, Tank 2 W.I2

Analytical Report – 21-25755-1; December 2021 (TANK 1 FILL A, TANK 1 FILL B, TANK 1 Base A, TANK 1 Base B, TANK 2 Base).

OVERVIEW OF WORKS

Background

During the Phase II Geo-Environmental Assessment completed in February 2021, localised elevated mercury (total) concentrations have been identified in the Made Ground at a depth of 1.20m bgl in WS106.

Throughout the demolition of the building, lifting of foundations and slabs and the Made Ground turnover, a historical tank farm was uncovered. These comprised three tanks fronting onto Oldham Road, beneath the former Petrol Filling Station (PFS). In line with industry best practice, this area therefore required the tanks to be removed and the surrounding soils delineated in line with the Remediation Strategy target levels.

Overview of Works

E3P attended site on 11th November 2021 and 25th November 2021 to supervise the excavation of the underground tanks in the area of the WS106 hotspot. An area of 10m x by 10m to roughly 2.00m bgl was excavated when the tanks were removed and incorporated the WS106 area.

Samples of the sidewalls (N, E, S,W), materials within (arisings) and base of the excavation were taken for analysis. The analysis confirmed the sidewalls and base to contain <0.3mg/kg of mercury and all other contaminants were below the thresholds for placement below the proposed building and was therefore confirmed to not pose a vapour or human health risk to future site users and these soils were considered suitable for re-use.



The material arisings and the materials from with the tanks were excavated and stockpiled on Visqueen, as these indicated elevated levels of non-volatile PAHs and TPH C8-10. However, no elevations of mercury were identified. The materials were disposed of off-site to a suitable waste facility and waste transfer notes can be made available upon request.

RE-9 – REMOVAL OF DELETERIOUS MATERIAL

DATE OF WORKS UNDERTAKEN

Throughout works.

CHEMICAL TESTING

PID testing has been undertaken of all excavated and processed soils. No elevations about 0.0 ppm have been identified.

OVERVIEW OF WORKS

Due to the nature of the works much of the site won material was reused.

During the demolition and removal of onsite structures and features the material was processed. All bricks and concrete were riddled and crushed onsite by a mobile crushing plant with associated dust suppression system. This crush was then re-used to back fill voids and as part of the engineered pile mat. Waste material such as wooden timbers, glass and steel substructures were stockpiled separately and segregated for recycling off site.

RE-10 – CONSTRUCTION OF TEMPORARY WORKING PLATFORM

DATE OF WORKS UNDERTAKEN

November 2021 to December 2021.

PHOTOGRAPHS

Plate 10 to 12.

GEOTECHNICAL TESTING

MRN 4069-251
MRN 4069-225A
MRN 4069-259A
MRN 4069-262
SR/255
SR/260
SR/262

OVERVIEW OF WORKS

Overview of Works

ADM completed CBR tests on the top and underside of the piling mats between 17th November 2021 and 4th December 2021, which achieved an equivalent CBR value of between 1.0% and 38.6%.

In areas where a CBR of greater than 10% was not achieved, these areas were re-rolled as per the construction method.



The CBR locations can be seen on the ADM Regeneration As Built Drawing (Ref: 11269-004; December 2021).

E3P can therefore confirm the piling mat has been placed and constructed in accordance with the approved temporary works platform design (Ref: 12-729-L1; July 2021).

RE-11 – REPLACEMENT OF MATERIALS, GEOTECHNICAL ENGINEERING REQUIREMENTS

DATE OF WORKS UNDERTAKEN

Throughout works.

PHOTOGRAPHS

Plate 12.

CHEMICAL TESTING

I2 Analytical Report – 21-23013-1; November 2023 (BS/CR/01 & BS/CR/02).

GEOTECHNICAL TESTING

MRN 4069-261; November 2021 (BS/CR/01 & BS/CR/02).

OVERVIEW OF WORKS

The enabling works required a large-scale turnover to remove constraints to construction. Where applicable, all voids were backfilled with materials in accordance with the E3P Geotechnical Engineering Specification.

CBR tests were undertaken at the remediation levels at formation and on pile mats as per RE-10.

All materials were backfilled in strict compliance with the E3P Geotechnical Engineering Specification.

CBR testing was completed to demonstrate compliance performance requirements and the testing results are included in Appendix VI.

The Geotechnical testing locations are shown on ADM Drawing (Ref: 11269-004; December 2021) (Appendix III).

RE-12 – PREPARATION OF PERIPHERAL LANDSCAPED AREAS FOR COVER SYSTEM

OVERVIEW OF WORKS

E3P understand the installation of landscaped areas is planned for late 2023 as part of the final build phase works.



5. POST REMEDIATION BUILD PHASE REQUIREMENTS

This document details the construction works that are required to ensure full compliance with the remediation Strategy, Regulatory Authorities, Building Control & Warranty Providers;

The following are to be implemented during the build phase of the development:

- ✚ Laboratory testing of the imported subsoil and topsoil;
- ✚ Placement and chemical validation of imported subsoil and topsoil within landscaped POS.

The validation protocols are presented within the E3P Remediation and Enabling Works Strategy and are presented below.

5.1. PLACEMENT OF COVER SYSTEM

The Remediation and Enabling Works Strategy for the site, with respect to human health of the future site users includes the provision of a chemically suitable clean material to be installed in all landscaped areas; the construction of the clean cover / placement of clean material shall consist of:

- ✚ 150mm topsoil and 150mm subsoil cover system, with geotextile membrane (break layer) in all landscaped plots which overlie Made Ground deposits across the site.

The depth of cover system within the tree pits may require deepening to 600mm bgl.

In accordance with the current requirements of the regulatory authorities, validation samples will be collected from all materials that are to be imported or re-used on site to confirm the proposed development will pose no unacceptable risk to human health or the wider environ.

Subsoil and topsoil shall be free of any deleterious materials, such as buildings materials, timber, plastics etc and conform to the requirements of BS 3882:2007.

Initial testing of site won sub-soil to classify its re-use on site has been completed as part of the remediation works undertaken. Therefore, further analysis of sub-soil will be required to achieve the testing frequencies outlined within the remediation strategy and in the event of importation of additional material during construction.

Testing requirements for topsoil and subsoil are presented in Table 5.1.

TABLE 5.1 SPECIFICATION FOR SOIL TESTING

MATERIAL USE	TESTING FREQUENCY	SUITE OF ANALYSIS
Subsoil Greenfield Source (450 mm Garden Cover)	1 Sample per 200 m ³	A/B/C/D
Subsoil Brownfield Source (450 mm Garden Cover)	1 Sample per 50 m ³	A/B/C/D
Topsoil Greenfield Source (150 mm Garden Cover)	1 Sample per 200 m ³	A/B/C/D
Topsoil Brownfield Source (150 mm Garden Cover)	1 Sample per 50 m ³	A/B/C/D



5.1.1. PROCEDURE FOR PLACEMENT OF CHEMICALLY SUITABLE COVER SYSTEM

Landscaped areas need to be backfilled with a geotextile membrane, 150mm chemically validated subsoil, with 150 mm chemically suitable topsoil overlaying this.

Topsoil is required to be confirmed as chemically suitable prior to placement.

E3P will be required to return to site and undertake independent validation of the correct placement of subsoil.

The placement of the cover system in landscaped areas will be undertaken during the build phase works of the project.

The placement of subsoil and corresponding validation will be documented within the Garden Validation Letters (to be issued on completion of the contractor's works).

If proposed utilities are to be placed within the cover system, the clean cover should be placed prior to installation of these utilities.

E3P will collect photographic evidence of the placement of certified topsoil and subsoil on completion of construction works.

This element will also be checked by the Building Control Officer as part of the site completion prior to issuing of a CML certificate. The POS validation procedure is detailed in Table 5.2 below.

TABLE 5.2 GARDEN VALIDATION PROCEEDURE

PROCEDURE	METHOD
Chemical Validation	Imported topsoil and subsoil will need to be chemically analysed to confirm suitability for use with the proposed cover system prior to installation and completion of the landscaped areas. E3P will issue an email to the appropriate party with an assessment of the chemical suitability of both subsoils and topsoil. If acceptable the materials can be installed to the required depth at which time the plot will be deemed complete following a validation procedure by a suitability qualified E3P engineer.
Trial Holes	Trial holes are deemed necessary to validate the depth of cover system in landscaped areas during the build phase.
Validation	Photographic evidence will be taken by E3P of the topsoil and subsoil placement demonstrating the depth of material and practical completion of works are required for each landscaped area.
Validation Certificate	Once the photographs of the placement of suitable material have been provided, E3P will issue a plot specific validation certificate to demonstrate that the required subsoil and topsoil has been placed in the required landscaped areas along with the chemical analysis.
Completion Report	Upon completion of all landscaped areas within the development, a Completion Report will be issued providing confirmation that all remediation requirements have been achieved.



Plate 1 provides an example of a garden validation photographs that will be required for each plot.

PLATE 1 EXAMPLE PLOT COVER SYSTEM VALIDATION

Plot No: 4 (Car Park Landscaping)

Depth of Strata (m bgl)

0.00-0.30

Validated TOPSOIL

Depth of Cover System Materials

Depth of Cover System Materials



Depth of Cover System at Ground Level and in Relation to Unit / Structure



5.2. GROUND GAS PROTECTION MEASURES

Ground gas monitoring indicates the site classification as CS1, and it is considered that gas protection measures will not be required.

E3P completed a total six visits over three months, in accordance with CIRIA 665 guidance. This frequency is based on a low ground gas generation potential and a moderate sensitivity (apartments) end use.

5.3. POTABLE WATER SUPPLY – CONTAMINANT ASSESSMENT CRITERIA

Table 5.3 provides a summary of the threshold concentrations that must not be exceeded within remediated ground at pipeline depth in order to PE pipe works to be acceptable for the proposed development.

TABLE 5.3 PIPELINE SELECTION PE THRESHOLD CONCENTRATIONS

Contaminant Group	PE-threshold
Total VOC	0.5
Total BTEX And MTBE	0.1
Total SVOCs (Excluding PAH and those substances marked with an *)	2
EC5-EC10 Aliphatic and Aromatic Hydrocarbons	2
EC10-EC16- Aliphatic and Aromatic Hydrocarbons	10
EC16-EC40 Aliphatic and Aromatic Hydrocarbons	500
Phenols (From SVOC Analysis)*	2
Cresols and Chlorinated Phenols (From SVOC Analysis)	2
Ethers*	0.5
Nitrobenzene*	0.5
Ketones*	0.5
Aldehydes*	0.5
Amines	Fail

Upon completion of the remedial works a full UKWIR Risk Assessment should be undertaken.



6. CONCLUSION

The remediation elements identified within the approved Remediation and Enabling Works Strategy to have been completed with validation testing confirming that the works have been completed to the required standard.

As part of the on-going construction works the developer will be required to construct and validate the items listed below in strict accordance with the requirements of the regulatory authorities as documented in detail within this report.

- ✿ Placement of clean subsoil and topsoil in soft landscaped areas (tree planters) must be a minimum of 300mm or natural ground (whichever is the shallower).
- ✿ Independent validation of the cover system by a suitably qualified E3P engineer; and
- ✿ Provision a suitable water supply infrastructure.

A final validation report covering the remainder of the works will need to be prepared in due course.

END OF REPORT



APPENDIX I

LIMITATIONS

1. This report and its findings should be considered in relation to the terms of reference and objectives agreed between E3P and the Client as indicated in Section 1.2.
2. For the work, reliance has been placed on publicly available data obtained from the sources identified. The information is not necessarily exhaustive and further information relevant to the site may be available from other sources. When using the information it has been assumed it is correct. No attempt has been made to verify the information.
3. This report has been produced in accordance with current UK policy and legislative requirements for land and groundwater contamination which are enforced by the local authority and the Environment Agency. Liabilities associated with land contamination are complex and requires advice from legal professionals.
4. During the site walkover, reasonable effort has been made to obtain an overview of the site conditions. However, during the site walkover, no attempt has been made to enter areas of the site that are unsafe or present a risk to health and safety, are locked, barricaded, overgrown, or the location of the area has not been made known or accessible.
5. Access considerations, the presence of services and the activities being carried out on the site limited the locations where sampling locations could be installed and the techniques that could be used.
6. Site sensitivity assessments have been made based on available information at the time of writing and are ultimately for the decision of the regulatory authorities.
7. Where mention has been made to the identification of Japanese Knotweed and other invasive plant species and asbestos or asbestos-containing materials, this is for indicative purposes only and do not constitute or replace full and proper surveys.
8. The executive summary, conclusions and recommendations sections of the report provide an overview and guidance only and should not be specifically relied upon without considering the context of the report in full.
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10. New information, revised practices or changes in legislation may necessitate the re-interpretation of the report, in whole or in part.



APPENDIX II

GLOSSARY

TERMS

ACM	Asbestos-containing material	MMP	Materials management plan
ADS	Acoustic design statement	ND	Not detected
AST	Above-ground storage tank	NDP	Nuclear density probe
BGS	British Geological Survey	NMP	Noise management plan
BSI	British Standards Institute	NPSE	Noise policy statement for England
BTEX	Benzene, toluene, ethylbenzene, xylenes	NR	Not recorded
CA	Coal Authority	PAH	Polycyclic aromatic hydrocarbon
CBR	California bearing ratio	PCB	Polychlorinated biphenyl
CIEH	Chartered Institute of Environmental Health	PI	Plasticity index
CIRIA	Construction Industry Research Association	PID	Photo ionisation detector
CLEA	Contaminated land exposure assessment	POS	Public open space
CML	Council of Mortgage Lenders	PPE	Personnel protective equipment
CoC	Contaminants of concern	ProPG	Professional practice guidance
CSM	Conceptual site model	QA	Quality assurance
DNAPL	Dense non-aqueous phase liquid (chlorinated solvents, PCB)	SGV	Soil guideline value
DWS	Drinking water standard	SPH	Separate-phase hydrocarbon
EA	Environment Agency	SPT	Standard penetration test
EQS	Environmental quality standard	SVOC	Semi-volatile organic compound
FFL	Finished floor level	TPH	Total and speciated petroleum hydrocarbon
GAC	General assessment criteria	TPH CWG	Total Petroleum Hydrocarbon (Criteria Working Group)
GL	Ground level	UKWIR	United Kingdom Water Infrastructure Risk
GSV	Gas screening value	UST	Underground storage tank
HCV	Health criteria value	VCC	Vibro-concrete column



ICSM	Initial conceptual site model	VOC	Volatile organic compound
LEL	Lower explosive limit	VRSC	Vibro-replacement stone columns
LMRL	Lower method reporting limit	VSC	Vibro-stone columns
LNAPL	Light non-aqueous phase liquid (petrol, diesel, kerosene)	WHO	World Health Organisation
MCV	Moisture condition value	WRAP	Waste and Resources Action Programme
MIBK	Methyl isobutyl ketone	WTE	Water table elevation
m	Metres	ppm	Parts per million
km	Kilometres	mg/m³	Milligram per metre cubed
% v/v	Percent volume in air	m bgl	Metres below ground level
mb	Millibars (atmospheric pressure)	m bcl	Metre below cover level
l/hr	Litres per hour	mAOD	Metres above ordnance datum (sea level)
µg/l	Micrograms per litre (parts per billion)	kN/m²	Kilonewtons per metre squared
ppb	Parts per billion	µm	Micrometre
mg/kg	Milligrams per kilogram (parts per million)	SSRT	Site Specific Remediation Target
PSD	Particle Size Distribution	DD	Dry Density
CL:AIRE	Contaminated Land: Applications in Real Environments	Mc	Moisture Content
ρ	Bulk Density	GPR	Ground Penetrating Radar
NDP	Nuclear Density Probe	FFL	Finished Floor Level
LEL	Lower Explosive Limit	UKWIR	UK Water Industry Research
CIRIA	Construction Industry Research and Information Association	LOD	Limit of Detection



APPENDIX III

DRAWINGS

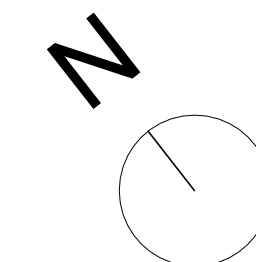
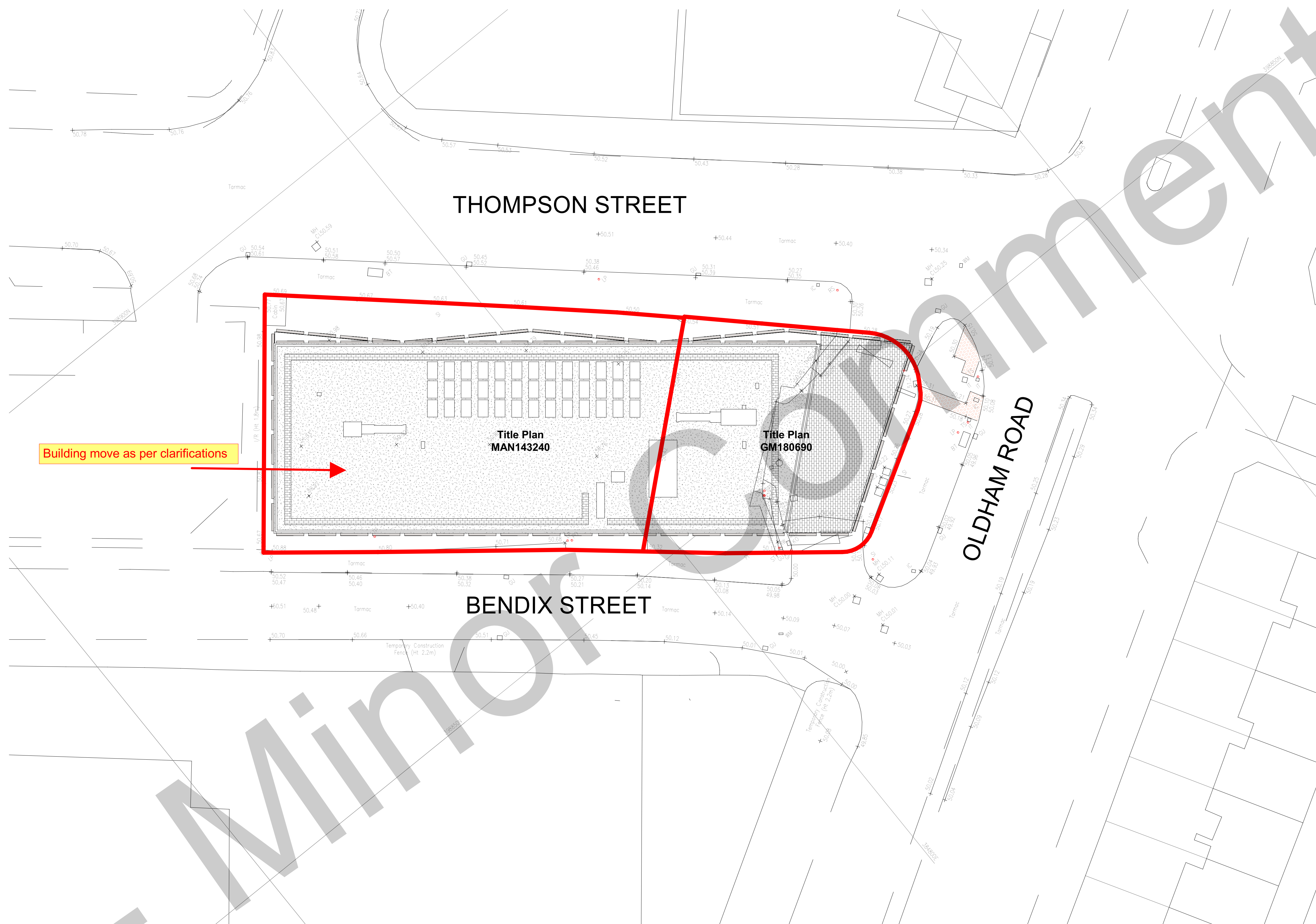


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Dimensioning
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Rev	Description	Date	By
P1	Stage 3 Issue	18.09.20	
P2	Stage 3 - General Updates	13.10.20	
P3	Proj nr, FFLs, Updates as clouds	06.09.21	



Client
Mulbury City

Project
0324 Bendix Street

Title
Site Plan

Status
STAGE 3

Project number
D480

Drawn by
TV

Checked by
GB

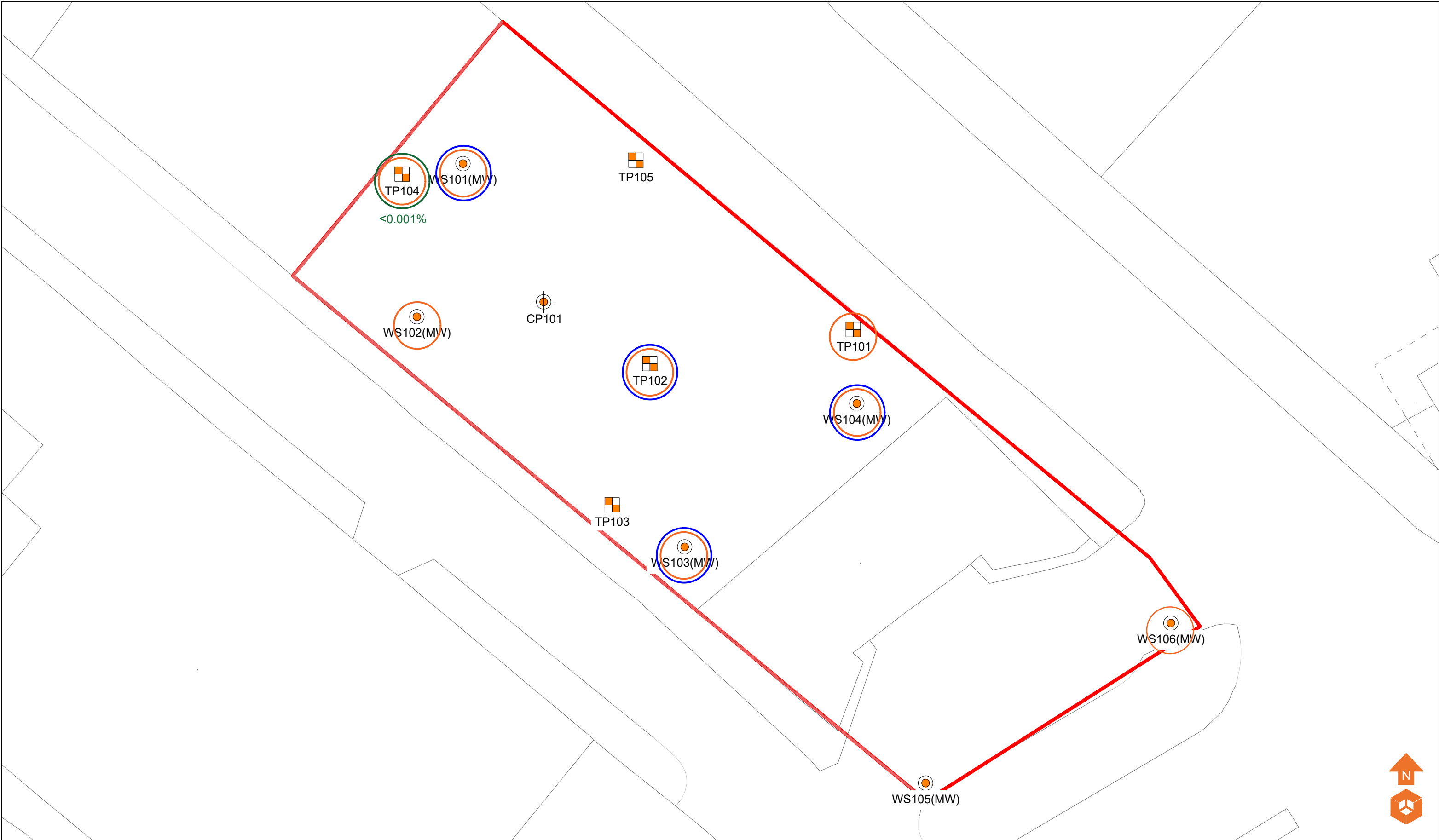
Scale
1 : 200@A1

Revision
P3

Drawing No.

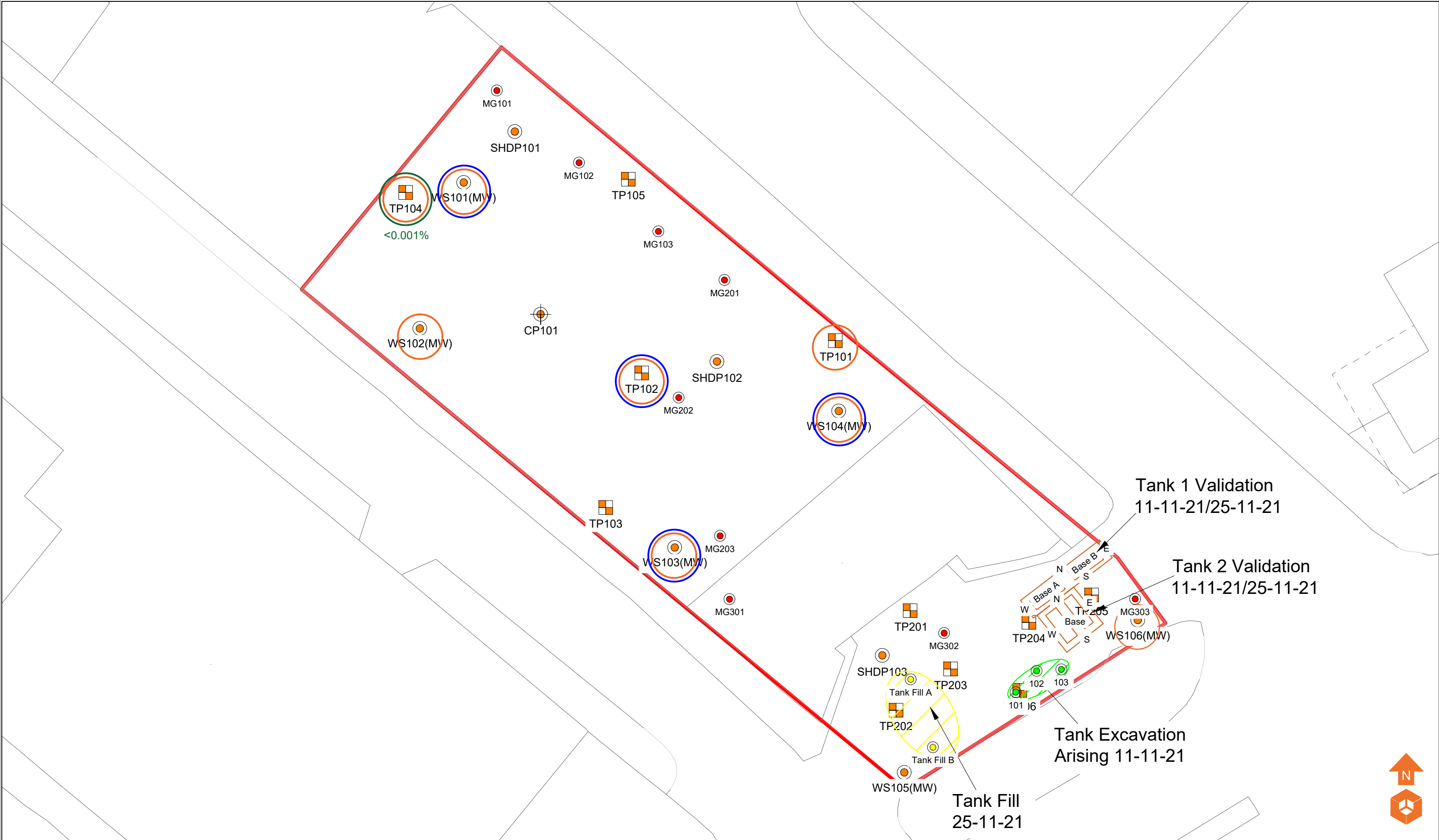
D480-TGA-XX-XX-DR-A-02000

NOTES
TOPOGRAPHICAL SURVEY OVERLAY FROM ND OLIVER & CO DRAWING 9855/001 REV 0
THE PLAN SHOWS THE GENERAL POSITION, NOT THE EXACT LINE, OF THE BOUNDARIES.
IT MAY BE SUBJECT TO DISTORTIONS IN SCALE



Location Symbols WS101 Approximate Window Sample Probehole Location with Install TP101 Approximate Trial Pit Location CP101 Approximate Cable Percussive Borehole Location
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Location Symbols WS001 Approximate Window Sample Probehole Location with Install TP001 Approximate Trial Pit Location CP001 Approximate Cable Percussive Borehole Location MG001 Approximate Validation Sample Location Contamination Exceedances ○ Heavy Metals MG101-103 - 04-11-21 ○ Non Volatile PAH MG201-203 - 25-11-21 ○ Asbestos MG301-303 - 08-12-21			Notes:					Client: Mulbury		Job No: 12-729		Date: 07.01.2022		e3p Environmental Engineering Partnership Ltd Taylor Road, Trafford Park Urmston, Manchester, M41 7JQ Tel: 0161 707 9612 E-mail: info@e3p.co.uk Website: www.e3p.co.uk				
								Job Title: Thompson Street					Drawing Title: Validation Sampling Plan			The client must not amend any drawing, design or other intellectual property produced by E3P Ltd without permission in writing from E3P Ltd in advance of any amendments being made. In the event that such written permission is not obtained in advance of the amendments being made, E3P Ltd shall not be liable for any damage and/or losses occurring as a result of the amended drawing, design or intellectual property.		
P1								REVA		07.01.2022		EB		EF				
Phase								Issue		Date		Drawn		Checked				



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- NOTES**
- Drawing Overlays:**
- OGL - ND Oliver dwg 9855_001A August 2018
 - External Levels - Ridge dwg D480-RDG-00-F1-DR-S-0100 C2
- Formation levels:**
- Top Of Piling Mat - 50.380 / 49.805m AOD
- Assumptions:**
- No allowance made for sub floor voids within existing structures unless explicitly stated on OGL survey / Tender information.
 - No allowance for material bulking/shrinkage during earthworks.
 - No allowance made for temporary works on retaining structures.
- Isopachytes:**
- X.XX = Cut From OGL To Design Formation Levels
 - X.XX = Fill From OGL To Design Formation Levels

CBR Locations & Values			
Number	Easting	Northing	Remark
CBR1 17-11-21	384781.778	398872.988	15.6% - Underside
CBR2 17-11-21	384788.899	398882.428	11.2% - Underside
CBR1 22-11-21	384794.907	398862.197	8.9% - Underside
CBR2 22-11-21	384781.150	398871.751	22.6% - Top
CBR1 24-11-21	384789.649	398881.555	38.2% - Top
CBR2 24-11-21	384787.774	398867.730	22.0% - Top
CBR3 24-11-21	384803.592	398870.518	11.5% - Underside
CBR1 29-11-21	384816.691	398851.835	10% - Underside
CBR2 29-11-21	384820.670	398848.165	3.3% - Underside
CBR3 29-11-21	384822.883	398853.852	9.7% - Top

CBR Locations & Values Rev A			
Number	Easting	Northing	Remark
CBR1 02-12-21	384821.038	398856.119	1.7% - Underside
CBR2 02-12-21	384815.690	398846.508	1.0% - Underside
CBR3 02-12-21	384824.674	398850.965	13% - Top
CBR4 02-12-21	384810.020	398846.369	17% - Top
CBR1 04-12-21	384814.326	398848.044	5.1% - Top - Raining
CBR2 04-12-21	384819.615	398854.309	9.2% - Top - Raining
CBR3 04-12-21	384793.495	398863.366	3.7% - Top - Raining
CBR4 04-12-21	384800.752	398873.205	11.0% - Top - Raining
CBR5 04-12-21	384809.300	398863.812	2.8% - Top - Raining
CBR6 04-12-21	384801.699	398855.952	4.2% - Top - Raining

A	Additional Survey And CBR's Added	RJM	06/12/21
REV	DESCRIPTION	BY	DATE



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As-Built Survey

Information		
DRAWN BY	SIGNATURE	DATE
RJM		02-12-21
APPROVED	SIGNATURE	DATE
-		
SCALE	DRG No.	
1:150@A1	11269-004	

APPENDIX IV CHEMICAL TESTING RESULTS



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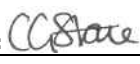
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e: reception@i2analytical.com

Analytical Report Number : 21-21003

Project / Site name:	Thompson Street	Samples received on:	04/11/2021
Your job number:	12-729	Samples instructed on/ Analysis started on:	04/11/2021
Your order number:	12729-EF-M	Analysis completed by:	11/11/2021
Report Issue Number:	1	Report issued on:	11/11/2021
Samples Analysed:	3 soil samples		

Signed: 

Claire Stone
Quality Manager
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement. Application of uncertainty of measurement would provide a range within which the true result lies. An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 21-21003
Project / Site name: Thompson Street
Your Order No: 12729-EF-M

Lab Sample Number				2072698	2072699	2072700
Sample Reference				MG101	MG102	MG103
Sample Number				None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied
Date Sampled				04/11/2021	04/11/2021	04/11/2021
Time Taken				None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status			
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	8.6	12	7.7
Total mass of sample received	kg	0.001	NONE	0.50	0.50	0.50

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected
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General Inorganics

pH - Automated	pH Units	N/A	MCERTS	8.6	9.7	8.3
Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Total Sulphate as SO ₄	mg/kg	50	MCERTS	2700	3400	2300
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	g/l	0.00125	MCERTS	0.88	1.2	0.86
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	mg/kg	2.5	MCERTS	1800	2400	1700
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	mg/l	1.25	MCERTS	876	1200	856
Sulphide	mg/kg	1	MCERTS	19	21	19
Total Sulphur	mg/kg	50	MCERTS	1200	1600	920
Total Organic Carbon (TOC)	%	0.1	MCERTS	2.2	2.4	2.2

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	0.27	0.56	0.27
Fluorene	mg/kg	0.05	MCERTS	0.24	0.32	0.22
Phenanthrene	mg/kg	0.05	MCERTS	2.2	3.3	2.1
Anthracene	mg/kg	0.05	MCERTS	0.61	0.92	0.66
Fluoranthene	mg/kg	0.05	MCERTS	4.2	5.3	3.3
Pyrene	mg/kg	0.05	MCERTS	3.9	4.7	2.9
Benzo(a)anthracene	mg/kg	0.05	MCERTS	2.2	2.3	1.7
Chrysene	mg/kg	0.05	MCERTS	1.8	2.0	1.2
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	2.0	2.2	1.7
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	1.0	0.99	0.59
Benzo(a)pyrene	mg/kg	0.05	MCERTS	1.8	1.8	1.3
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	1.1	1.1	0.86
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.36	0.35	0.28
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	1.3	1.3	1.0

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	23.1	27.1	18.2
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Analytical Report Number: 21-21003
 Project / Site name: Thompson Street
 Your Order No: 12729-EF-M

Lab Sample Number				2072698	2072699	2072700
Sample Reference				MG101	MG102	MG103
Sample Number				None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied
Date Sampled				04/11/2021	04/11/2021	04/11/2021
Time Taken				None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)				Units	Limit of detection	Accreditation Status

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	21	22	15
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	1.7	< 0.2	0.6
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	21	23	17
Copper (aqua regia extractable)	mg/kg	1	MCERTS	120	150	82
Lead (aqua regia extractable)	mg/kg	1	MCERTS	500	530	380
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	0.7	0.8	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	25	30	20
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	290	230	160

Petroleum Hydrocarbons

TPH (C5 - C6)	mg/kg	1	NONE	< 1.0	< 1.0	< 1.0
TPH (C6 - C8)	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1
TPH (C8 - C10)	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1
TPH (C10 - C12)	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0
TPH (C12 - C16)	mg/kg	4	MCERTS	4.3	4.9	< 4.0
TPH (C16 - C21)	mg/kg	1	MCERTS	7.9	11	14
TPH (C21 - C35)	mg/kg	1	MCERTS	47	62	120
TPH (C35 - C40)	mg/kg	10	MCERTS	57	64	130
TPH Total C5 - C40	mg/kg	10	MCERTS	120	140	260

U/S = Unsuitable Sample I/S = Insufficient Sample

Analytical Report Number : 21-21003
Project / Site name: Thompson Street

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
2072698	MG101	None Supplied	None Supplied	Brown clay and sand with gravel.
2072699	MG102	None Supplied	None Supplied	Brown clay and sand with gravel.
2072700	MG103	None Supplied	None Supplied	Brown clay and sand with gravel.

Analytical Report Number : 21-21003
Project / Site name: Thompson Street

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Sulphate, water soluble, in soil (16hr extraction)	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In house method.	L038-PL	D	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazine followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
Speciated EPA-16 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In house method.	L099-PL	D	MCERTS
Sulphide in soil	Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode.	In-house method	L010-PL	D	MCERTS
Total sulphate (as SO4 in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Total Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Total organic carbon (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	L009-PL	D	MCERTS
TPH in (Soil)	Determination of TPH bands by HS-GC-MS/GC-FID	In-house method, TPH with carbon banding and silica gel split/cleanup.	L076-PL	D	MCERTS
D.O. for Gravimetric Quant if Screen/ID positive	Dependent option for Gravimetric Quant if Screen/ID positive scheduled.	In house asbestos methods A001 & A006.	A006-PL	D	NONE
Sulphate, water soluble, in soil (1hr extraction)	Sulphate, water soluble, in soil (1hr extraction)	In-house method	L038-PL	D	MCERTS



Analytical Report Number : 21-21003
Project / Site name: Thompson Street

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
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For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

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Analytical Report Number : 21-25755

Project / Site name:	Thompson Street	Samples received on:	26/11/2021
Your job number:	12-729	Samples instructed on/ Analysis started on:	26/11/2021
Your order number:	12729-EF-P	Analysis completed by:	03/12/2021
Report Issue Number:	1	Report issued on:	03/12/2021
Samples Analysed:	8 soil samples		

Signed: 

Agnieszka Czerwińska
Technical Reviewer (Reporting Team)
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :	soils	- 4 weeks from reporting
	leachates	- 2 weeks from reporting
	waters	- 2 weeks from reporting
	asbestos	- 6 months from reporting

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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement. Application of uncertainty of measurement would provide a range within which the true result lies. An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 21-25755
Project / Site name: Thompson Street
Your Order No: 12729-EF-P

Lab Sample Number				2098242	2098243	2098244	2098245	2098246
Sample Reference				MG201	MG202	MG203	TANK 1 FILL A	TANK 1 FILL B
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				25/11/2021	25/11/2021	25/11/2021	25/11/2021	25/11/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	14	16	12	9.7	10
Total mass of sample received	kg	0.001	NONE	0.40	0.40	0.40	0.40	0.40

Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	Amosite	Chrysotile	-	-	-
Asbestos in Soil	Type	N/A	ISO 17025	Detected	Detected	Not-detected	-	-
Asbestos Quantification (Stage 2)	%	0.001	ISO 17025	< 0.001	< 0.001	-	-	-
Asbestos Quantification Total	%	0.001	ISO 17025	< 0.001	< 0.001	-	-	-
Asbestos Analyst ID	N/A	N/A	N/A	MWI	MWI	MWI	-	-

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	8.3	7.9	8.4	-	-
Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	-
Total Sulphate as SO ₄	mg/kg	50	MCERTS	3400	4000	3800	-	-
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	g/l	0.00125	MCERTS	0.88	1.1	1.1	-	-
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	mg/kg	2.5	MCERTS	1800	2200	2200	-	-
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	mg/l	1.25	MCERTS	880	1110	1120	-	-
Sulphide	mg/kg	1	MCERTS	25	38	41	-	-
Total Sulphur	mg/kg	50	MCERTS	1500	1700	1600	-	-
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	1.7	1.6	1.7	-	-

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	-
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	0.54	0.34	0.31	-	-
Acenaphthylene	mg/kg	0.05	MCERTS	0.30	0.20	< 0.05	-	-
Acenaphthene	mg/kg	0.05	MCERTS	0.79	0.52	0.48	-	-
Fluorene	mg/kg	0.05	MCERTS	0.63	0.52	0.37	-	-
Phenanthrene	mg/kg	0.05	MCERTS	8.5	5.7	3.8	-	-
Anthracene	mg/kg	0.05	MCERTS	1.5	1.2	0.80	-	-
Fluoranthene	mg/kg	0.05	MCERTS	10	7.8	4.9	-	-
Pyrene	mg/kg	0.05	MCERTS	10	7.7	5.0	-	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	5.8	4.1	2.9	-	-
Chrysene	mg/kg	0.05	MCERTS	4.3	3.5	2.4	-	-
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	4.9	3.4	2.8	-	-
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	1.9	2.3	1.7	-	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	4.3	3.5	2.3	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	2.6	2.1	1.5	-	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.71	0.58	0.48	-	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	3.2	2.4	1.8	-	-

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	60.2	45.9	31.6	-	-
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Analytical Report Number: 21-25755
Project / Site name: Thompson Street
Your Order No: 12729-EF-P

Lab Sample Number	2098242	2098243	2098244	2098245	2098246
Sample Reference	MG201	MG202	MG203	TANK 1 FILL A	TANK 1 FILL B
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled	25/11/2021	25/11/2021	25/11/2021	25/11/2021	25/11/2021
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	17	19	18	-	-
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	1.1	1.0	0.9	-	-
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0	-	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	23	29	22	-	-
Copper (aqua regia extractable)	mg/kg	1	MCERTS	90	120	110	-	-
Lead (aqua regia extractable)	mg/kg	1	MCERTS	630	630	690	-	-
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	1.9	4.2	2.0	-	-
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	22	35	23	-	-
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	-
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	340	290	260	-	-

Monoaromatics & Oxygenates

Benzene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
p & m-xylene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
o-xylene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6 HS_ID_AL	mg/kg	0.001	MCERTS	-	-	-	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8 HS_ID_AL	mg/kg	0.001	MCERTS	-	-	-	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10 HS_ID_AL	mg/kg	0.001	MCERTS	-	-	-	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12 EH_CU_ID_AL	mg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16 EH_CU_ID_AL	mg/kg	2	MCERTS	-	-	-	4.4	5.9
TPH-CWG - Aliphatic >EC16 - EC21 EH_CU_ID_AL	mg/kg	8	MCERTS	-	-	-	< 8.0	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35 EH_CU_ID_AL	mg/kg	8	MCERTS	-	-	-	< 8.0	< 8.0
TPH-CWG - Aliphatic (EC5 - EC35) EH_CU+HS_ID_AL	mg/kg	10	MCERTS	-	-	-	12	14

TPH-CWG - Aromatic >EC5 - EC7 HS_ID_AR	mg/kg	0.001	MCERTS	-	-	-	< 0.001	< 0.001
TPH-CWG - Aromatic >EC7 - EC8 HS_ID_AR	mg/kg	0.001	MCERTS	-	-	-	< 0.001	< 0.001
TPH-CWG - Aromatic >EC8 - EC10 HS_ID_AR	mg/kg	0.001	MCERTS	-	-	-	< 0.001	< 0.001
TPH-CWG - Aromatic >EC10 - EC12 EH_CU_ID_AR	mg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
TPH-CWG - Aromatic >EC12 - EC16 EH_CU_ID_AR	mg/kg	2	MCERTS	-	-	-	< 2.0	< 2.0
TPH-CWG - Aromatic >EC16 - EC21 EH_CU_ID_AR	mg/kg	10	MCERTS	-	-	-	< 10	< 10
TPH-CWG - Aromatic >EC21 - EC35 EH_CU_ID_AR	mg/kg	10	MCERTS	-	-	-	< 10	< 10
TPH-CWG - Aromatic (EC5 - EC35) EH_CU+HS_ID_AR	mg/kg	10	MCERTS	-	-	-	< 10	< 10

TPH (C5 - C6) HS_ID_TOTAL	mg/kg	1	NONE	< 1.0	< 1.0	< 1.0	-	-
TPH (C6 - C8) HS_ID_TOTAL	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	-	-
TPH (C8 - C10) HS_ID_TOTAL	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	-	-
TPH (C10 - C12) EH_CU_ID_TOTAL	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	-	-
TPH (C12 - C16) EH_CU_ID_TOTAL	mg/kg	4	MCERTS	5.2	6.3	7.7	-	-
TPH (C16 - C21) EH_CU_ID_TOTAL	mg/kg	1	MCERTS	22	23	22	-	-
TPH (C21 - C35) EH_CU_ID_TOTAL	mg/kg	1	MCERTS	35	32	32	-	-
TPH (C35 - C40) EH_CU_ID_TOTAL	mg/kg	10	MCERTS	< 10	< 10	< 10	-	-
TPH Total C5 - C40 EH_CU+HS_ID_TOTAL	mg/kg	10	MCERTS	62	62	61	-	-

Analytical Report Number: 21-25755
Project / Site name: Thompson Street
Your Order No: 12729-EF-P

Lab Sample Number				2098242	2098243	2098244	2098245	2098246
Sample Reference				MG201	MG202	MG203	TANK 1 FILL A	TANK 1 FILL B
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				25/11/2021	25/11/2021	25/11/2021	25/11/2021	25/11/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)				Units	Limit of detection	Accreditation Status		

SVOCs

Aniline	mg/kg	0.1	NONE	-	-	-	< 0.1	< 0.1
Phenol	mg/kg	0.2	ISO 17025	-	-	-	< 0.2	< 0.2
2-Chlorophenol	mg/kg	0.1	MCERTS	-	-	-	< 0.1	< 0.1
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	-	-	-	< 0.2	< 0.2
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	-	< 0.2	< 0.2
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	-	-	-	< 0.1	< 0.1
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	-	< 0.2	< 0.2
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	-	-	-	< 0.1	< 0.1
2-Methylphenol	mg/kg	0.3	MCERTS	-	-	-	< 0.3	< 0.3
Hexachloroethane	mg/kg	0.05	MCERTS	-	-	-	< 0.05	< 0.05
Nitrobenzene	mg/kg	0.3	MCERTS	-	-	-	< 0.3	< 0.3
4-Methylphenol	mg/kg	0.2	NONE	-	-	-	< 0.2	< 0.2
Isophorone	mg/kg	0.2	MCERTS	-	-	-	< 0.2	< 0.2
2-Nitrophenol	mg/kg	0.3	MCERTS	-	-	-	< 0.3	< 0.3
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	-	-	-	< 0.3	< 0.3
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	-	-	-	< 0.3	< 0.3
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	-	-	-	< 0.3	< 0.3
Naphthalene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	< 0.05
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	-	-	-	< 0.3	< 0.3
4-Chloroaniline	mg/kg	0.1	NONE	-	-	-	< 0.1	< 0.1
Hexachlorobutadiene	mg/kg	0.1	MCERTS	-	-	-	< 0.1	< 0.1
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	-	-	-	< 0.1	< 0.1
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	-	-	-	< 0.1	< 0.1
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	-	-	-	< 0.2	< 0.2
2-Methylnaphthalene	mg/kg	0.1	NONE	-	-	-	< 0.1	< 0.1
2-Chloronaphthalene	mg/kg	0.1	MCERTS	-	-	-	< 0.1	< 0.1
Dimethylphthalate	mg/kg	0.1	MCERTS	-	-	-	< 0.1	< 0.1
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	-	-	-	< 0.1	< 0.1
Acenaphthylene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	< 0.05
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	-	-	-	< 0.2	< 0.2
Dibenzofuran	mg/kg	0.2	MCERTS	-	-	-	< 0.2	< 0.2
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	-	-	-	< 0.3	< 0.3
Diethyl phthalate	mg/kg	0.2	MCERTS	-	-	-	< 0.2	< 0.2
4-Nitroaniline	mg/kg	0.2	MCERTS	-	-	-	< 0.2	< 0.2
Fluorene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	< 0.05
Azobenzene	mg/kg	0.3	MCERTS	-	-	-	< 0.3	< 0.3
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	-	-	-	< 0.2	< 0.2
Hexachlorobenzene	mg/kg	0.3	MCERTS	-	-	-	< 0.3	< 0.3
Phenanthrene	mg/kg	0.05	MCERTS	-	-	-	0.33	< 0.05
Anthracene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	< 0.05
Carbazole	mg/kg	0.3	MCERTS	-	-	-	< 0.3	< 0.3
Dibutyl phthalate	mg/kg	0.2	MCERTS	-	-	-	< 0.2	< 0.2
Anthraquinone	mg/kg	0.3	MCERTS	-	-	-	< 0.3	< 0.3
Fluoranthene	mg/kg	0.05	MCERTS	-	-	-	0.28	< 0.05
Pyrene	mg/kg	0.05	MCERTS	-	-	-	0.29	< 0.05
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	-	-	-	< 0.3	< 0.3
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	< 0.05
Chrysene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	< 0.05

Analytical Report Number: 21-25755
 Project / Site name: Thompson Street
 Your Order No: 12729-EF-P

Lab Sample Number				2098242	2098243	2098244	2098245	2098246
Sample Reference				MG201	MG202	MG203	TANK 1 FILL A	TANK 1 FILL B
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				25/11/2021	25/11/2021	25/11/2021	25/11/2021	25/11/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)				Units	Limit of detection	Accreditation Status		

U/S = Unsuitable Sample I/S = Insufficient Sample

Analytical Report Number: 21-25755
Project / Site name: Thompson Street
Your Order No: 12729-EF-P

Lab Sample Number				2098247	2098248	2098249
Sample Reference				TANK 1 BASE A	TANK 1 BASE B	TANK 2 BASE
Sample Number				None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied
Date Sampled				25/11/2021	25/11/2021	25/11/2021
Time Taken				None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status			
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	14	14	14
Total mass of sample received	kg	0.001	NONE	0.40	0.40	0.40

Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	-	-	-
Asbestos in Soil	Type	N/A	ISO 17025	-	-	-
Asbestos Quantification (Stage 2)	%	0.001	ISO 17025	-	-	-
Asbestos Quantification Total	%	0.001	ISO 17025	-	-	-
Asbestos Analyst ID	N/A	N/A	N/A	-	-	-

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	-	-	-
Total Cyanide	mg/kg	1	MCERTS	-	-	-
Total Sulphate as SO ₄	mg/kg	50	MCERTS	-	-	-
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	g/l	0.00125	MCERTS	-	-	-
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	mg/kg	2.5	MCERTS	-	-	-
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	mg/l	1.25	MCERTS	-	-	-
Sulphide	mg/kg	1	MCERTS	-	-	-
Total Sulphur	mg/kg	50	MCERTS	-	-	-
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	-	-	-

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	-	-	-
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	-	-	-
Acenaphthylene	mg/kg	0.05	MCERTS	-	-	-
Acenaphthene	mg/kg	0.05	MCERTS	-	-	-
Fluorene	mg/kg	0.05	MCERTS	-	-	-
Phenanthrene	mg/kg	0.05	MCERTS	-	-	-
Anthracene	mg/kg	0.05	MCERTS	-	-	-
Fluoranthene	mg/kg	0.05	MCERTS	-	-	-
Pyrene	mg/kg	0.05	MCERTS	-	-	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	-	-
Chrysene	mg/kg	0.05	MCERTS	-	-	-
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	-	-	-
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	-	-	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	-	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	-	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	-	-

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	-	-	-
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Analytical Report Number: 21-25755
Project / Site name: Thompson Street
Your Order No: 12729-EF-P

Lab Sample Number				2098247	2098248	2098249
Sample Reference				TANK 1 BASE A	TANK 1 BASE B	TANK 2 BASE
Sample Number				None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied
Date Sampled				25/11/2021	25/11/2021	25/11/2021
Time Taken				None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status			
Heavy Metals / Metalloids						
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	-	-	-
Chromium (hexavalent)	mg/kg	4	MCERTS	-	-	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-
Copper (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-
Lead (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	-	-	-
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-

Monoaromatics & Oxygenates

Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6 HS_ID_AL	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8 HS_ID_AL	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10 HS_ID_AL	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12 EH_CU_ID_AL	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16 EH_CU_ID_AL	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21 EH_CU_ID_AL	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35 EH_CU_ID_AL	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0
TPH-CWG - Aliphatic (EC5 - EC35) EH_CU+HS_ID_AL	mg/kg	10	MCERTS	< 10	< 10	< 10

TPH-CWG - Aromatic >EC5 - EC7 HS_ID_AR	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC7 - EC8 HS_ID_AR	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC8 - EC10 HS_ID_AR	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC10 - EC12 EH_CU_ID_AR	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >EC12 - EC16 EH_CU_ID_AR	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0
TPH-CWG - Aromatic >EC16 - EC21 EH_CU_ID_AR	mg/kg	10	MCERTS	< 10	< 10	< 10
TPH-CWG - Aromatic >EC21 - EC35 EH_CU_ID_AR	mg/kg	10	MCERTS	< 10	< 10	< 10
TPH-CWG - Aromatic (EC5 - EC35) EH_CU+HS_ID_AR	mg/kg	10	MCERTS	< 10	< 10	< 10

TPH (C5 - C6) HS_ID_TOTAL	mg/kg	1	NONE	-	-	-
TPH (C6 - C8) HS_ID_TOTAL	mg/kg	0.1	MCERTS	-	-	-
TPH (C8 - C10) HS_ID_TOTAL	mg/kg	0.1	MCERTS	-	-	-
TPH (C10 - C12) EH_CU_ID_TOTAL	mg/kg	2	MCERTS	-	-	-
TPH (C12 - C16) EH_CU_ID_TOTAL	mg/kg	4	MCERTS	-	-	-
TPH (C16 - C21) EH_CU_ID_TOTAL	mg/kg	1	MCERTS	-	-	-
TPH (C21 - C35) EH_CU_ID_TOTAL	mg/kg	1	MCERTS	-	-	-
TPH (C35 - C40) EH_CU_ID_TOTAL	mg/kg	10	MCERTS	-	-	-
TPH Total C5 - C40 EH_CU+HS_ID_TOTAL	mg/kg	10	MCERTS	-	-	-

Analytical Report Number: 21-25755
Project / Site name: Thompson Street
Your Order No: 12729-EF-P

Lab Sample Number				2098247	2098248	2098249
Sample Reference				TANK 1 BASE A	TANK 1 BASE B	TANK 2 BASE
Sample Number				None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied
Date Sampled				25/11/2021	25/11/2021	25/11/2021
Time Taken				None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status			
SVOCs						
Aniline	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1
Phenol	mg/kg	0.2	ISO 17025	< 0.2	< 0.2	< 0.2
2-Chlorophenol	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1
2-Methylphenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3
Hexachloroethane	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05
Nitrobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3
4-Methylphenol	mg/kg	0.2	NONE	< 0.2	< 0.2	< 0.2
Isophorone	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2
2-Nitrophenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3
4-Chloroaniline	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1
Hexachlorobutadiene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2
2-Methylnaphthalene	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1
2-Chloronaphthalene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1
Dimethylphthalate	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2
Dibenzofuran	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	< 0.3	< 0.3	< 0.3
Diethyl phthalate	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2
4-Nitroaniline	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05
Azobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2
Hexachlorobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05
Carbazole	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3
Dibutyl phthalate	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2
Anthraquinone	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05
Pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	< 0.3	< 0.3	< 0.3
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05

Analytical Report Number: 21-25755
 Project / Site name: Thompson Street
 Your Order No: 12729-EF-P

Lab Sample Number				2098247	2098248	2098249
Sample Reference				TANK 1 BASE A	TANK 1 BASE B	TANK 2 BASE
Sample Number				None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied
Date Sampled				25/11/2021	25/11/2021	25/11/2021
Time Taken				None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status			

U/S = Unsuitable Sample I/S = Insufficient Sample



Analytical Report Number: 21-25755
Project / Site name: Thompson Street
Your Order No: 12729-EF-P

Certificate of Analysis - Asbestos Quantification

Methods:

Qualitative Analysis

The samples were analysed qualitatively for asbestos by polarising light and dispersion staining as described by the Health and Safety Executive in HSG 248.

Quantitative Analysis

The analysis was carried out using our documented in-house method A006-PL based on HSE Contract Research Report No: 83/1996: Development and Validation of an analytical method to determine the amount of asbestos in soils and loose aggregates (Davies et al, 1996) and HSG 248. Our method includes initial examination of the entire representative sample, then fractionation and detailed analysis of each fraction, with quantification by hand picking and weighing.

The limit of detection (reporting limit) of this method is 0.001 %.

The method has been validated using samples of at least 100 g, results for samples smaller than this should be interpreted with caution.

Both Qualitative and Quantitative Analyses are UKAS accredited.

Sample Number	Sample ID	Sample Depth (m)	Sample Weight (g)	Asbestos Containing Material Types Detected (ACM)	PLM Results	Asbestos by hand picking/weighing (%)	Total % Asbestos in Sample
2098242	MG201		156	Loose Fibres	Amosite	< 0.001	< 0.001
2098243	MG202		169	Loose Fibres	Chrysotile	< 0.001	< 0.001

Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.

Analytical Report Number : 21-25755
Project / Site name: Thompson Street

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
2098242	MG201	None Supplied	None Supplied	Brown clay with gravel.
2098243	MG202	None Supplied	None Supplied	Brown clay with gravel.
2098244	MG203	None Supplied	None Supplied	Brown clay with gravel.
2098245	TANK 1 FILL A	None Supplied	None Supplied	Light brown sand with gravel.
2098246	TANK 1 FILL B	None Supplied	None Supplied	Light brown sand with gravel.
2098247	TANK 1 BASE A	None Supplied	None Supplied	Brown clay.
2098248	TANK 1 BASE B	None Supplied	None Supplied	Brown clay.
2098249	TANK 2 BASE	None Supplied	None Supplied	Brown clay.

Analytical Report Number : 21-25755
Project / Site name: Thompson Street

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Sulphate, water soluble, in soil (16hr extraction)	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In house method.	L038-PL	D	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazine followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
Speciated EPA-16 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In house method.	L099-PL	D	MCERTS
Sulphide in soil	Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode.	In-house method	L010-PL	D	MCERTS
Total sulphate (as SO4 in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Total Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds in soil by extraction in dichloromethane and hexane followed by GC-MS.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Total organic carbon (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	L009-PL	D	MCERTS
BTEX and MTBE in soil (Monoaromatics)	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method with silica gel split/clean up.	L088/76-PL	W	MCERTS

Analytical Report Number : 21-25755
Project / Site name: Thompson Street

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
TPH in (Soil)	Determination of TPH bands by HS-GC-MS/GC-FID	In-house method, TPH with carbon banding and silica gel split/cleanup.	L076-PL	D	MCERTS
Asbestos Quantification - Gravimetric	Asbestos quantification by gravimetric method - in house method based on references.	HSE Report No: 83/1996, HSG 248, HSG 264 & SCA Blue Book (draft).	A006-PL	D	ISO 17025
D.O. for Gravimetric Quant if Screen/ID positive	Dependent option for Gravimetric Quant if Screen/ID positive scheduled.	In house asbestos methods A001 & A006.	A006-PL	D	NONE
Sulphate, water soluble, in soil (1hr extraction)	Sulphate, water soluble, in soil (1hr extraction)	In-house method	L038-PL	D	MCERTS

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

Information in Support of Analytical Results

List of HWOL Acronyms and Operators

Acronym	Descriptions
HS	Headspace Analysis
MS	Mass spectrometry
FID	Flame Ionisation Detector
GC	Gas Chromatography
EH	Extractable Hydrocarbons (i.e. everything extracted by the solvent(s))
CU	Clean-up - e.g. by Florisil®, silica gel
1D	GC - Single coil/column gas chromatography
2D	GC-GC - Double coil/column gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics
AR	Aromatics
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted
-	Operator - understore to separate acronyms (exception for +)
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total



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Analytical Report Number : 21-27903

Project / Site name:	Thompson Street	Samples received on:	08/12/2021
Your job number:	12 729	Samples instructed on/ Analysis started on:	08/12/2021
Your order number:	000128	Analysis completed by:	15/12/2021
Report Issue Number:	1	Report issued on:	15/12/2021
Samples Analysed:	3 soil samples		


Signed:

Joanna Wawrzeczko
Technical Reviewer (Reporting Team)
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement. Application of uncertainty of measurement would provide a range within which the true result lies. An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 21-27903
Project / Site name: Thompson Street
Your Order No: 000128

Lab Sample Number	2110130	2110131	2110132
Sample Reference	MG301	MG302	MG303
Sample Number	None Supplied	None Supplied	None Supplied
Depth (m)	None Supplied	None Supplied	None Supplied
Date Sampled	08/12/2021	08/12/2021	08/12/2021
Time Taken	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status
Stone Content	%	0.1	NONE
Moisture Content	%	0.01	NONE
Total mass of sample received	kg	0.001	NONE

Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	-	-	Chrysotile
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Detected
Asbestos Quantification (Stage 2)	%	0.001	ISO 17025	-	-	< 0.001
Asbestos Quantification Total	%	0.001	ISO 17025	-	-	< 0.001
Asbestos Analyst ID	N/A	N/A	N/A	JSW	JSW	JSW

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	8.3	8.2	8.1
Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Total Sulphate as SO ₄	mg/kg	50	MCERTS	1300	1400	760
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	g/l	0.00125	MCERTS	0.019	0.012	0.033
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	mg/kg	2.5	MCERTS	38	25	65
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	mg/l	1.25	MCERTS	19.1	12.4	32.7
Sulphide	mg/kg	1	MCERTS	33	20	20
Total Sulphur	mg/kg	50	MCERTS	980	800	730
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	1.8	2.2	3.9

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	0.31	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	0.34	1.4
Acenaphthene	mg/kg	0.05	MCERTS	0.35	0.58	9.8
Fluorene	mg/kg	0.05	MCERTS	0.23	0.60	5.9
Phenanthrene	mg/kg	0.05	MCERTS	3.0	6.9	95
Anthracene	mg/kg	0.05	MCERTS	0.72	1.6	22
Fluoranthene	mg/kg	0.05	MCERTS	6.3	10	170
Pyrene	mg/kg	0.05	MCERTS	6.3	10	180
Benzo(a)anthracene	mg/kg	0.05	MCERTS	3.3	4.9	87
Chrysene	mg/kg	0.05	MCERTS	2.9	5.0	87
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	3.1	5.8	96
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	1.9	2.0	21
Benzo(a)pyrene	mg/kg	0.05	MCERTS	3.1	4.9	75
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	1.5	2.2	36
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.51	0.71	11
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	1.8	2.7	43

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	35.0	58.9	944
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Analytical Report Number: 21-27903
Project / Site name: Thompson Street
Your Order No: 000128

Lab Sample Number	2110130	2110131	2110132
Sample Reference	MG301	MG302	MG303
Sample Number	None Supplied	None Supplied	None Supplied
Depth (m)	None Supplied	None Supplied	None Supplied
Date Sampled	08/12/2021	08/12/2021	08/12/2021
Time Taken	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	32	26	30
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	1.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	38	50	21
Copper (aqua regia extractable)	mg/kg	1	MCERTS	110	100	100
Lead (aqua regia extractable)	mg/kg	1	MCERTS	620	490	270
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	1.1	0.6	0.5
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	31	34	33
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	300	210	190

Petroleum Hydrocarbons

TPH (C5 - C6) HS_ID_TOTAL	mg/kg	1	NONE	< 1.0	< 1.0	< 1.0
TPH (C6 - C8) HS_ID_TOTAL	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1
TPH (C8 - C10) HS_ID_TOTAL	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1
TPH (C10 - C12) EH_CU_ID_TOTAL	mg/kg	2	MCERTS	< 2.0	< 2.0	13
TPH (C12 - C16) EH_CU_ID_TOTAL	mg/kg	4	MCERTS	< 4.0	8.7	80
TPH (C16 - C21) EH_CU_ID_TOTAL	mg/kg	1	MCERTS	20	37	520
TPH (C21 - C35) EH_CU_ID_TOTAL	mg/kg	1	MCERTS	35	100	840
TPH (C35 - C40) EH_CU_ID_TOTAL	mg/kg	10	MCERTS	< 10	27	85
TPH Total C5 - C40 EH_CU+HS_ID_TOTAL	mg/kg	10	MCERTS	56	170	1500

U/S = Unsuitable Sample I/S = Insufficient Sample



Analytical Report Number: 21-27903
Project / Site name: Thompson Street
Your Order No: 000128

Certificate of Analysis - Asbestos Quantification

Methods:

Qualitative Analysis

The samples were analysed qualitatively for asbestos by polarising light and dispersion staining as described by the Health and Safety Executive in HSG 248.

Quantitative Analysis

The analysis was carried out using our documented in-house method A006-PL based on HSE Contract Research Report No: 83/1996: Development and Validation of an analytical method to determine the amount of asbestos in soils and loose aggregates (Davies et al, 1996) and HSG 248. Our method includes initial examination of the entire representative sample, then fractionation and detailed analysis of each fraction, with quantification by hand picking and weighing.

The limit of detection (reporting limit) of this method is 0.001 %.

The method has been validated using samples of at least 100 g, results for samples smaller than this should be interpreted with caution.

Both Qualitative and Quantitative Analyses are UKAS accredited.

Sample Number	Sample ID	Sample Depth (m)	Sample Weight (g)	Asbestos Containing Material Types Detected (ACM)	PLM Results	Asbestos by hand picking/weighing (%)	Total % Asbestos in Sample
2110132	MG303		131	Loose Fibres	Chrysotile	< 0.001	< 0.001

Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.

Analytical Report Number : 21-27903
Project / Site name: Thompson Street

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
2110130	MG301	None Supplied	None Supplied	Brown clay and sand with gravel and brick.
2110131	MG302	None Supplied	None Supplied	Brown clay and sand with gravel and brick.
2110132	MG303	None Supplied	None Supplied	Brown clay and sand with gravel.

Analytical Report Number : 21-27903
Project / Site name: Thompson Street

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Sulphate, water soluble, in soil (16hr extraction)	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In house method.	L038-PL	D	MCERTS
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazine followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
Speciated EPA-16 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In house method.	L099-PL	D	MCERTS
Sulphide in soil	Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode.	In-house method	L010-PL	D	MCERTS
Total sulphate (as SO4 in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Total Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Total organic carbon (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	L009-PL	D	MCERTS
TPH in (Soil)	Determination of TPH bands by HS-GC-MS/GC-FID	In-house method, TPH with carbon banding and silica gel split/cleanup.	L076-PL	D	MCERTS
Asbestos Quantification - Gravimetric	Asbestos quantification by gravimetric method - in house method based on references.	HSE Report No: 83/1996, HSG 248, HSG 264 & SCA Blue Book (draft).	A006-PL	D	ISO 17025
D.O. for Gravimetric Quant if Screen/ID positive	Dependent option for Gravimetric Quant if Screen/ID positive scheduled.	In house asbestos methods A001 & A006.	A006-PL	D	NONE

Analytical Report Number : 21-27903
Project / Site name: Thompson Street

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Sulphate, water soluble, in soil (1hr extraction)	Sulphate, water soluble, in soil (1hr extraction)	In-house method	L038-PL	D	MCERTS

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

Analytical Report Number : 21-27903
Project / Site name: Thompson Street

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
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Information in Support of Analytical Results

List of HWOL Acronyms and Operators

Acronym	Descriptions
HS	Headspace Analysis
MS	Mass spectrometry
FID	Flame Ionisation Detector
GC	Gas Chromatography
EH	Extractable Hydrocarbons (i.e. everything extracted by the solvent(s))
CU	Clean-up - e.g. by Florisil®, silica gel
1D	GC - Single coil/column gas chromatography
2D	GC-GC - Double coil/column gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics
AR	Aromatics
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted
-	Operator - understore to separate acronyms (exception for +)
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total

**Steve Hutchings**

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e: MURRAYRIX Group

Analytical Report Number : 21-23013

Project / Site name:	Bendix Street Manchester	Samples received on:	15/11/2021
Your job number:		Samples instructed on/ Analysis started on:	15/11/2021
Your order number:	21 360	Analysis completed by:	22/11/2021
Report Issue Number:	1	Report issued on:	22/11/2021
Samples Analysed:	2 soil samples		

Signed:

Joanna Wawrzeczko
Technical Reviewer (Reporting Team)
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils - 4 weeks from reporting
leachates - 2 weeks from reporting
waters - 2 weeks from reporting
asbestos - 6 months from reporting

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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.
Application of uncertainty of measurement would provide a range within which the true result lies.
An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 21-23013
Project / Site name: Bendix Street Manchester
Your Order No: 21 360

Lab Sample Number				2083348	2083349
Sample Reference				106550	106551
Sample Number				BS/CR/01	BS/CR/02
Depth (m)				None Supplied	None Supplied
Date Sampled				12/11/2021	12/11/2021
Time Taken				None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		
Stone Content	%	0.1	NONE	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	12	11
Total mass of sample received	kg	0.001	NONE	0.70	1.0

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected
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General Inorganics

pH - Automated	pH Units	N/A	MCERTS	9.7	9.6
Organic Matter (automated)	%	0.1	MCERTS	1.5	0.3

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	0.22	< 0.05
Fluorene	mg/kg	0.05	MCERTS	0.17	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	1.3	0.30
Anthracene	mg/kg	0.05	MCERTS	0.29	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	1.8	0.30
Pyrene	mg/kg	0.05	MCERTS	1.6	0.30
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.87	< 0.05
Chrysene	mg/kg	0.05	MCERTS	0.74	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	0.89	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	0.37	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.88	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.49	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.56	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	10.1	0.90
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	11	10
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.90	0.66
Boron (water soluble)	mg/kg	0.2	MCERTS	0.5	0.8
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0
Chromium (III)	mg/kg	1	NONE	22	20
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	22	20
Copper (aqua regia extractable)	mg/kg	1	MCERTS	37	13
Lead (aqua regia extractable)	mg/kg	1	MCERTS	120	35
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	16	11
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	30	24
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	110	32

Analytical Report Number: 21-23013
 Project / Site name: Bendix Street Manchester
 Your Order No: 21 360

Lab Sample Number				2083348	2083349
Sample Reference				106550	106551
Sample Number				BS/CR/01	BS/CR/02
Depth (m)				None Supplied	None Supplied
Date Sampled				12/11/2021	12/11/2021
Time Taken				None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		

Monoaromatics & Oxygenates

Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	< 8.0	< 8.0
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10

TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	< 0.001	< 0.001
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10	< 10
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	19	< 10
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	26	< 10

U/S = Unsuitable Sample I/S = Insufficient Sample

Analytical Report Number : 21-23013

Project / Site name: Bendix Street Manchester

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
2083348	106550	BS/CR/01	None Supplied	Brown clay with gravel.
2083349	106551	BS/CR/02	None Supplied	Brown clay with gravel.

Analytical Report Number : 21-23013

Project / Site name: Bendix Street Manchester

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Speciated EPA-16 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In house method.	L099-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
BTEX and MTBE in soil (Monoaromatics)	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS
Cr (III) in soil	In-house method by calculation from total Cr and Cr VI.	In-house method by calculation	L080-PL	W	NONE
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method with silica gel split/clean up.	L088/76-PL	W	MCERTS
Organic matter (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	L009-PL	D	MCERTS

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

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Analytical Report Number : 21-22359

Project / Site name:	Thompson Street	Samples received on:	11/11/2021
Your job number:	12-729	Samples instructed on/ Analysis started on:	11/11/2021
Your order number:	12729-EF-O	Analysis completed by:	18/11/2021
Report Issue Number:	1	Report issued on:	18/11/2021
Samples Analysed:	11 soil samples		

Signed: 

Agnieszka Czerwińska
Technical Reviewer (Reporting Team)
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

Excel copies of reports are only valid when accompanied by this PDF certificate.

Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement. Application of uncertainty of measurement would provide a range within which the true result lies. An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 21-22359
Project / Site name: Thompson Street
Your Order No: 12729-EF-O

Lab Sample Number				2079809	2079810	2079811	2079812	2079813
Sample Reference				Tank Arising 101	Tank Arising 102	Tank Arising 103	Tank 1 N	Tank 1 E
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				11/11/2021	11/11/2021	11/11/2021	11/11/2021	11/11/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	30
Moisture Content	%	0.01	NONE	15	20	26	14	17
Total mass of sample received	kg	0.001	NONE	0.50	0.50	0.50	0.50	0.50

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	-	-
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General Inorganics

pH - Automated	pH Units	N/A	MCERTS	8.8	8.9	8.5	-	-
Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	-
Total Sulphate as SO ₄	mg/kg	50	MCERTS	1500	800	1600	-	-
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	g/l	0.00125	MCERTS	0.33	0.12	0.69	-	-
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	mg/kg	2.5	MCERTS	660	250	1400	-	-
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	mg/l	1.25	MCERTS	329	125	692	-	-
Sulphide	mg/kg	1	MCERTS	150	12	450	-	-
Total Sulphur	mg/kg	50	MCERTS	2600	760	11000	-	-
Total Organic Carbon (TOC)	%	0.1	MCERTS	1.9	1.8	2.3	-	-

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	-
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	2.7	0.47	< 0.05	-	-
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	-	-
Acenaphthene	mg/kg	0.05	MCERTS	1.4	0.51	< 0.05	-	-
Fluorene	mg/kg	0.05	MCERTS	1.3	0.41	< 0.05	-	-
Phenanthrene	mg/kg	0.05	MCERTS	6.3	2.4	< 0.05	-	-
Anthracene	mg/kg	0.05	MCERTS	1.4	0.60	< 0.05	-	-
Fluoranthene	mg/kg	0.05	MCERTS	8.2	3.7	1.1	-	-
Pyrene	mg/kg	0.05	MCERTS	7.5	3.4	1.1	-	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	4.1	1.9	0.48	-	-
Chrysene	mg/kg	0.05	MCERTS	3.3	1.5	0.45	-	-
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	3.7	2.0	0.54	-	-
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	1.9	0.84	0.22	-	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	3.5	1.7	0.38	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	1.8	0.92	< 0.05	-	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.55	0.27	< 0.05	-	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	2.3	1.2	< 0.05	-	-

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	49.7	21.9	4.30	-	-
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	20	19	14	-	-
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	0.5	-	-
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0	-	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	28	28	34	-	-
Copper (aqua regia extractable)	mg/kg	1	MCERTS	69	79	75	-	-
Lead (aqua regia extractable)	mg/kg	1	MCERTS	220	320	510	-	-
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	-	-
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	28	33	38	-	-
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	-
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	120	180	200	-	-

Analytical Report Number: 21-22359
Project / Site name: Thompson Street
Your Order No: 12729-EF-O

Lab Sample Number				2079809	2079810	2079811	2079812	2079813
Sample Reference				Tank Arising 101	Tank Arising 102	Tank Arising 103	Tank 1 N	Tank 1 E
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				11/11/2021	11/11/2021	11/11/2021	11/11/2021	11/11/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					

Monoaromatics & Oxygenates

Benzene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
p & m-xylene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
o-xylene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	-	-	-	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	-	-	-	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	-	-	-	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	-	-	-	< 2.0	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	-	-	-	< 8.0	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	-	-	-	< 8.0	< 8.0
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	-	-	-	< 10	< 10

TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	-	-	-	< 0.001	< 0.001
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	-	-	-	< 0.001	< 0.001
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	-	-	-	< 0.001	< 0.001
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	-	-	-	< 2.0	< 2.0
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	-	-	-	< 10	18
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	-	-	-	< 10	21
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	-	-	-	< 10	39

TPH (C5 - C6)	mg/kg	1	NONE	< 1.0	< 1.0	< 1.0	-	-
TPH (C6 - C8)	mg/kg	0.1	MCERTS	0.8	< 0.1	1.0	-	-
TPH (C8 - C10)	mg/kg	0.1	MCERTS	14	< 0.1	28	-	-
TPH (C10 - C12)	mg/kg	2	MCERTS	9.5	< 2.0	20	-	-
TPH (C12 - C16)	mg/kg	4	MCERTS	61	16	66	-	-
TPH (C16 - C21)	mg/kg	1	MCERTS	96	28	93	-	-
TPH (C21 - C35)	mg/kg	1	MCERTS	98	35	47	-	-
TPH (C35 - C40)	mg/kg	10	MCERTS	26	< 10	< 10	-	-
TPH Total C5 - C40	mg/kg	10	MCERTS	310	79	260	-	-

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Your Order No: 12729-EF-O

Lab Sample Number				2079809	2079810	2079811	2079812	2079813
Sample Reference				Tank Arising 101	Tank Arising 102	Tank Arising 103	Tank 1 N	Tank 1 E
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				11/11/2021	11/11/2021	11/11/2021	11/11/2021	11/11/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)				Units	Limit of detection	Accreditation Status		

SVOCs

Aniline	mg/kg	0.1	NONE	-	-	-	< 0.1	< 0.1
Phenol	mg/kg	0.2	ISO 17025	-	-	-	< 0.2	< 0.2
2-Chlorophenol	mg/kg	0.1	MCERTS	-	-	-	< 0.1	< 0.1
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	-	-	-	< 0.2	< 0.2
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	-	< 0.2	< 0.2
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	-	-	-	< 0.1	< 0.1
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	-	< 0.2	< 0.2
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	-	-	-	< 0.1	< 0.1
2-Methylphenol	mg/kg	0.3	MCERTS	-	-	-	< 0.3	< 0.3
Hexachloroethane	mg/kg	0.05	MCERTS	-	-	-	< 0.05	< 0.05
Nitrobenzene	mg/kg	0.3	MCERTS	-	-	-	< 0.3	< 0.3
4-Methylphenol	mg/kg	0.2	NONE	-	-	-	< 0.2	< 0.2
Isophorone	mg/kg	0.2	MCERTS	-	-	-	< 0.2	< 0.2
2-Nitrophenol	mg/kg	0.3	MCERTS	-	-	-	< 0.3	< 0.3
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	-	-	-	< 0.3	< 0.3
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	-	-	-	< 0.3	< 0.3
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	-	-	-	< 0.3	< 0.3
Naphthalene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	< 0.05
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	-	-	-	< 0.3	< 0.3
4-Chloroaniline	mg/kg	0.1	NONE	-	-	-	< 0.1	< 0.1
Hexachlorobutadiene	mg/kg	0.1	MCERTS	-	-	-	< 0.1	< 0.1
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	-	-	-	< 0.1	< 0.1
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	-	-	-	< 0.1	< 0.1
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	-	-	-	< 0.2	< 0.2
2-Methylnaphthalene	mg/kg	0.1	NONE	-	-	-	< 0.1	< 0.1
2-Chloronaphthalene	mg/kg	0.1	MCERTS	-	-	-	< 0.1	< 0.1
Dimethylphthalate	mg/kg	0.1	MCERTS	-	-	-	< 0.1	< 0.1
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	-	-	-	< 0.1	< 0.1
Acenaphthylene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	0.41
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	-	-	-	< 0.2	< 0.2
Dibenzofuran	mg/kg	0.2	MCERTS	-	-	-	< 0.2	< 0.2
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	-	-	-	< 0.3	< 0.3
Diethyl phthalate	mg/kg	0.2	MCERTS	-	-	-	< 0.2	< 0.2
4-Nitroaniline	mg/kg	0.2	MCERTS	-	-	-	< 0.2	< 0.2
Fluorene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	0.36
Azobenzene	mg/kg	0.3	MCERTS	-	-	-	< 0.3	< 0.3
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	-	-	-	< 0.2	< 0.2
Hexachlorobenzene	mg/kg	0.3	MCERTS	-	-	-	< 0.3	< 0.3
Phenanthrene	mg/kg	0.05	MCERTS	-	-	-	0.60	4.4
Anthracene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	0.96
Carbazole	mg/kg	0.3	MCERTS	-	-	-	< 0.3	< 0.3
Dibutyl phthalate	mg/kg	0.2	MCERTS	-	-	-	< 0.2	< 0.2
Anthraquinone	mg/kg	0.3	MCERTS	-	-	-	< 0.3	< 0.3
Fluoranthene	mg/kg	0.05	MCERTS	-	-	-	0.83	6.6
Pyrene	mg/kg	0.05	MCERTS	-	-	-	0.66	4.9
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	-	-	-	< 0.3	< 0.3
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	-	-	0.41	3.1
Chrysene	mg/kg	0.05	MCERTS	-	-	-	0.44	3.0
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	-	-	-	0.42	2.9
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	-	-	-	0.24	1.5
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	-	-	0.32	2.3

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Lab Sample Number				2079809	2079810	2079811	2079812	2079813
Sample Reference				Tank Arising 101	Tank Arising 102	Tank Arising 103	Tank 1 N	Tank 1 E
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				11/11/2021	11/11/2021	11/11/2021	11/11/2021	11/11/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	-	-	0.22	1.3
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	0.41
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	-	-	0.27	1.5

U/S = Unsuitable Sample I/S = Insufficient Sample

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Project / Site name: Thompson Street
Your Order No: 12729-EF-O

Lab Sample Number				2079814	2079815	2079816	2079817	2079818
Sample Reference				Tank 1 S	Tank 1 W	Tank 2 N	Tank 2 E	Tank 2 S
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				11/11/2021	11/11/2021	11/11/2021	11/11/2021	11/11/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	18	17	20	24	21
Total mass of sample received	kg	0.001	NONE	0.50	0.50	0.50	0.50	0.50

Asbestos in Soil	Type	N/A	ISO 17025	-	-	-	-	-
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General Inorganics

pH - Automated	pH Units	N/A	MCERTS	-	-	-	-	-
Total Cyanide	mg/kg	1	MCERTS	-	-	-	-	-
Total Sulphate as SO ₄	mg/kg	50	MCERTS	-	-	-	-	-
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	g/l	0.00125	MCERTS	-	-	-	-	-
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	mg/kg	2.5	MCERTS	-	-	-	-	-
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	mg/l	1.25	MCERTS	-	-	-	-	-
Sulphide	mg/kg	1	MCERTS	-	-	-	-	-
Total Sulphur	mg/kg	50	MCERTS	-	-	-	-	-
Total Organic Carbon (TOC)	%	0.1	MCERTS	-	-	-	-	-

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	-	-	-	-	-
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	-	-	-	-	-
Acenaphthylene	mg/kg	0.05	MCERTS	-	-	-	-	-
Acenaphthene	mg/kg	0.05	MCERTS	-	-	-	-	-
Fluorene	mg/kg	0.05	MCERTS	-	-	-	-	-
Phenanthrene	mg/kg	0.05	MCERTS	-	-	-	-	-
Anthracene	mg/kg	0.05	MCERTS	-	-	-	-	-
Fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-	-
Pyrene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	-	-	-	-
Chrysene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	-	-	-	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	-	-	-	-

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	-	-	-	-	-
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	-
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	-	-	-	-	-
Chromium (hexavalent)	mg/kg	4	MCERTS	-	-	-	-	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	-
Copper (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	-
Lead (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	-
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	-	-	-	-	-
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	-
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	-
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	-

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Project / Site name: Thompson Street
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Lab Sample Number				2079814	2079815	2079816	2079817	2079818
Sample Reference				Tank 1 S	Tank 1 W	Tank 2 N	Tank 2 E	Tank 2 S
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				11/11/2021	11/11/2021	11/11/2021	11/11/2021	11/11/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Monoaromatics & Oxygenates								
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	3.7	< 1.0	7.6	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	3.5	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/kg	1	MCERTS	< 1.0	8.2	< 1.0	< 1.0	< 1.0
o-xylene	µg/kg	1	MCERTS	< 1.0	9.4	< 1.0	5.7	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	6.7	< 2.0	< 2.0	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0	14	< 8.0	< 8.0	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	21	< 10	< 10	< 10

TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	< 0.001	0.004	< 0.001	0.008	< 0.001
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	0.047	< 0.001	0.039	< 0.001
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10	< 10	< 10	12	< 10
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	10	12	< 10	14	< 10
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	19	21	< 10	26	< 10

TPH (C5 - C6)	mg/kg	1	NONE	-	-	-	-	-
TPH (C6 - C8)	mg/kg	0.1	MCERTS	-	-	-	-	-
TPH (C8 - C10)	mg/kg	0.1	MCERTS	-	-	-	-	-
TPH (C10 - C12)	mg/kg	2	MCERTS	-	-	-	-	-
TPH (C12 - C16)	mg/kg	4	MCERTS	-	-	-	-	-
TPH (C16 - C21)	mg/kg	1	MCERTS	-	-	-	-	-
TPH (C21 - C35)	mg/kg	1	MCERTS	-	-	-	-	-
TPH (C35 - C40)	mg/kg	10	MCERTS	-	-	-	-	-
TPH Total C5 - C40	mg/kg	10	MCERTS	-	-	-	-	-

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Project / Site name: Thompson Street
Your Order No: 12729-EF-O

Lab Sample Number				2079814	2079815	2079816	2079817	2079818
Sample Reference				Tank 1 S	Tank 1 W	Tank 2 N	Tank 2 E	Tank 2 S
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				11/11/2021	11/11/2021	11/11/2021	11/11/2021	11/11/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
SVOCs								
Aniline	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Phenol	mg/kg	0.2	ISO 17025	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
2-Chlorophenol	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Methylphenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Hexachloroethane	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nitrobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
4-Methylphenol	mg/kg	0.2	NONE	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Isophorone	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
2-Nitrophenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	0.36	< 0.05	0.49	< 0.05
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
4-Chloroaniline	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachlorobutadiene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
2-Methylnaphthalene	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Chloronaphthalene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dimethylphthalate	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Dibenzofuran	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Diethyl phthalate	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
4-Nitroaniline	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Fluorene	mg/kg	0.05	MCERTS	< 0.05	0.23	< 0.05	0.23	< 0.05
Azobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Hexachlorobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Phenanthrene	mg/kg	0.05	MCERTS	1.6	1.2	< 0.05	1.5	< 0.05
Anthracene	mg/kg	0.05	MCERTS	0.27	0.27	< 0.05	0.31	< 0.05
Carbazole	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Dibutyl phthalate	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Anthraquinone	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Fluoranthene	mg/kg	0.05	MCERTS	2.2	1.6	< 0.05	1.6	< 0.05
Pyrene	mg/kg	0.05	MCERTS	2.0	1.6	< 0.05	1.6	< 0.05
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Benzo(a)anthracene	mg/kg	0.05	MCERTS	1.1	0.79	< 0.05	0.82	< 0.05
Chrysene	mg/kg	0.05	MCERTS	1.0	0.78	< 0.05	0.79	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	1.1	0.97	< 0.05	0.88	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	0.63	0.51	< 0.05	0.62	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.96	0.89	< 0.05	0.76	< 0.05

Analytical Report Number: 21-22359
 Project / Site name: Thompson Street
 Your Order No: 12729-EF-O

Lab Sample Number				2079814	2079815	2079816	2079817	2079818
Sample Reference				Tank 1 S	Tank 1 W	Tank 2 N	Tank 2 E	Tank 2 S
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				11/11/2021	11/11/2021	11/11/2021	11/11/2021	11/11/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.52	0.49	< 0.05	0.41	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.67	0.66	< 0.05	0.61	< 0.05

U/S = Unsuitable Sample I/S = Insufficient Sample

Analytical Report Number: 21-22359
Project / Site name: Thompson Street
Your Order No: 12729-EF-O

Lab Sample Number				2079819
Sample Reference				Tank 2 W
Sample Number				None Supplied
Depth (m)				None Supplied
Date Sampled				11/11/2021
Time Taken				None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status	
Stone Content	%	0.1	NONE	< 0.1
Moisture Content	%	0.01	NONE	21
Total mass of sample received	kg	0.001	NONE	0.50

Asbestos in Soil	Type	N/A	ISO 17025	-
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General Inorganics

pH - Automated	pH Units	N/A	MCERTS	-
Total Cyanide	mg/kg	1	MCERTS	-
Total Sulphate as SO ₄	mg/kg	50	MCERTS	-
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	g/l	0.00125	MCERTS	-
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	mg/kg	2.5	MCERTS	-
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	mg/l	1.25	MCERTS	-
Sulphide	mg/kg	1	MCERTS	-
Total Sulphur	mg/kg	50	MCERTS	-
Total Organic Carbon (TOC)	%	0.1	MCERTS	-

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	-
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	-
Acenaphthylene	mg/kg	0.05	MCERTS	-
Acenaphthene	mg/kg	0.05	MCERTS	-
Fluorene	mg/kg	0.05	MCERTS	-
Phenanthrene	mg/kg	0.05	MCERTS	-
Anthracene	mg/kg	0.05	MCERTS	-
Fluoranthene	mg/kg	0.05	MCERTS	-
Pyrene	mg/kg	0.05	MCERTS	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-
Chrysene	mg/kg	0.05	MCERTS	-
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	-
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	-
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	-
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	-
Chromium (hexavalent)	mg/kg	4	MCERTS	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	-
Copper (aqua regia extractable)	mg/kg	1	MCERTS	-
Lead (aqua regia extractable)	mg/kg	1	MCERTS	-
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	-
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	-
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	-
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	-

Analytical Report Number: 21-22359
Project / Site name: Thompson Street
Your Order No: 12729-EF-O

Lab Sample Number				2079819
Sample Reference				Tank 2 W
Sample Number				None Supplied
Depth (m)				None Supplied
Date Sampled				11/11/2021
Time Taken				None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status	
Monoaromatics & Oxygenates				
Benzene	µg/kg	1	MCERTS	< 1.0
Toluene	µg/kg	1	MCERTS	7.7
Ethylbenzene	µg/kg	1	MCERTS	4.7
p & m-xylene	µg/kg	1	MCERTS	18
o-xylene	µg/kg	1	MCERTS	11
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	< 8.0
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10

TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	< 0.001
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	0.008
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	0.063
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	10
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	19
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	29

TPH (C5 - C6)	mg/kg	1	NONE	-
TPH (C6 - C8)	mg/kg	0.1	MCERTS	-
TPH (C8 - C10)	mg/kg	0.1	MCERTS	-
TPH (C10 - C12)	mg/kg	2	MCERTS	-
TPH (C12 - C16)	mg/kg	4	MCERTS	-
TPH (C16 - C21)	mg/kg	1	MCERTS	-
TPH (C21 - C35)	mg/kg	1	MCERTS	-
TPH (C35 - C40)	mg/kg	10	MCERTS	-
TPH Total C5 - C40	mg/kg	10	MCERTS	-

Analytical Report Number: 21-22359
Project / Site name: Thompson Street
Your Order No: 12729-EF-O

Lab Sample Number				2079819
Sample Reference				Tank 2 W
Sample Number				None Supplied
Depth (m)				None Supplied
Date Sampled				11/11/2021
Time Taken				None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status	
SVOCs				
Aniline	mg/kg	0.1	NONE	< 0.1
Phenol	mg/kg	0.2	ISO 17025	< 0.2
2-Chlorophenol	mg/kg	0.1	MCERTS	< 0.1
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	< 0.2
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	< 0.1
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	< 0.1
2-Methylphenol	mg/kg	0.3	MCERTS	< 0.3
Hexachloroethane	mg/kg	0.05	MCERTS	< 0.05
Nitrobenzene	mg/kg	0.3	MCERTS	< 0.3
4-Methylphenol	mg/kg	0.2	NONE	< 0.2
Isophorone	mg/kg	0.2	MCERTS	< 0.2
2-Nitrophenol	mg/kg	0.3	MCERTS	< 0.3
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	< 0.3
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	< 0.3
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	< 0.3
Naphthalene	mg/kg	0.05	MCERTS	0.33
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	< 0.3
4-Chloroaniline	mg/kg	0.1	NONE	< 0.1
Hexachlorobutadiene	mg/kg	0.1	MCERTS	< 0.1
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	< 0.1
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	< 0.1
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	< 0.2
2-Methylnaphthalene	mg/kg	0.1	NONE	< 0.1
2-Chloronaphthalene	mg/kg	0.1	MCERTS	< 0.1
Dimethylphthalate	mg/kg	0.1	MCERTS	< 0.1
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	< 0.1
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	< 0.2
Dibenzofuran	mg/kg	0.2	MCERTS	< 0.2
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	< 0.3
Diethyl phthalate	mg/kg	0.2	MCERTS	< 0.2
4-Nitroaniline	mg/kg	0.2	MCERTS	< 0.2
Fluorene	mg/kg	0.05	MCERTS	< 0.05
Azobenzene	mg/kg	0.3	MCERTS	< 0.3
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	< 0.2
Hexachlorobenzene	mg/kg	0.3	MCERTS	< 0.3
Phenanthrene	mg/kg	0.05	MCERTS	0.71
Anthracene	mg/kg	0.05	MCERTS	< 0.05
Carbazole	mg/kg	0.3	MCERTS	< 0.3
Dibutyl phthalate	mg/kg	0.2	MCERTS	< 0.2
Anthraquinone	mg/kg	0.3	MCERTS	< 0.3
Fluoranthene	mg/kg	0.05	MCERTS	1.3
Pyrene	mg/kg	0.05	MCERTS	1.5
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	< 0.3
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.92
Chrysene	mg/kg	0.05	MCERTS	1.0
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	1.2
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	0.39
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.97

Analytical Report Number: 21-22359
 Project / Site name: Thompson Street
 Your Order No: 12729-EF-O

Lab Sample Number				2079819
Sample Reference				Tank 2 W
Sample Number				None Supplied
Depth (m)				None Supplied
Date Sampled				11/11/2021
Time Taken				None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status	
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.58
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.87

U/S = Unsuitable Sample I/S = Insufficient Sample

Analytical Report Number : 21-22359
Project / Site name: Thompson Street

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
2079809	Tank Arising 101	None Supplied	None Supplied	Brown clay and loam.
2079810	Tank Arising 102	None Supplied	None Supplied	Brown clay and loam with gravel.
2079811	Tank Arising 103	None Supplied	None Supplied	Brown clay and loam with gravel.
2079812	Tank 1 N	None Supplied	None Supplied	Brown loam and sand with gravel.
2079813	Tank 1 E	None Supplied	None Supplied	Brown loam and clay with gravel and stones.
2079814	Tank 1 S	None Supplied	None Supplied	Brown loam and clay with gravel.
2079815	Tank 1 W	None Supplied	None Supplied	Brown clay and loam with gravel.
2079816	Tank 2 N	None Supplied	None Supplied	Brown clay.
2079817	Tank 2 E	None Supplied	None Supplied	Brown clay and loam with gravel.
2079818	Tank 2 S	None Supplied	None Supplied	Brown clay and loam with gravel.
2079819	Tank 2 W	None Supplied	None Supplied	Brown clay and loam with gravel.

Analytical Report Number : 21-22359
Project / Site name: Thompson Street

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Sulphate, water soluble, in soil (16hr extraction)	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In house method.	L038-PL	D	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazine followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
Speciated EPA-16 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In house method.	L099-PL	D	MCERTS
Sulphide in soil	Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode.	In-house method	L010-PL	D	MCERTS
Total sulphate (as SO4 in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Total Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds in soil by extraction in dichloromethane and hexane followed by GC-MS.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Total organic carbon (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	L009-PL	D	MCERTS
BTEX and MTBE in soil (Monoaromatics)	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method with silica gel split/clean up.	L088/76-PL	W	MCERTS

Analytical Report Number : 21-22359
Project / Site name: Thompson Street

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
TPH in (Soil)	Determination of TPH bands by HS-GC-MS/GC-FID	In-house method, TPH with carbon banding and silica gel split/cleanup.	L076-PL	D	MCERTS
D.O. for Gravimetric Quant if Screen/ID positive	Dependent option for Gravimetric Quant if Screen/ID positive scheduled.	In house asbestos methods A001 & A006.	A006-PL	D	NONE
Sulphate, water soluble, in soil (1hr extraction)	Sulphate, water soluble, in soil (1hr extraction)	In-house method	L038-PL	D	MCERTS

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

APPENDIX V

PHOTOGRAPHS

PLATE 1 BUILDING IN SOUTH EAST REQUIRING DEMOLITION



PLATE 2 EXCAVATION AND TURNOVER OF MADE GROUND



PLATE 3 **EXCAVATION SURROUNDING TANK 1**



PLATE 4 **TANK 1 IN SOUTH EAST OF SITE**



PLATE 5 TANK 2 EXCAVATION



PLATE 6 TANK 1 FILL MATERIALS



PLATE 7 TANK 2 FILL MATERIALS



PLATE 8 EXCAVATION OF TANK AREA (AND WS106)

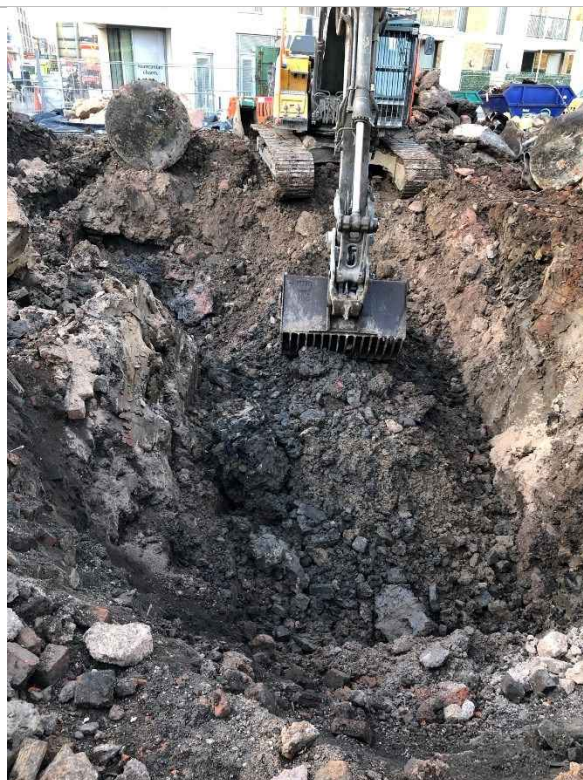


PLATE 9 ARISINGS FROM TANK EXCAVATION



PLATE 10 VIEW OF SITE FACING SOUTH EAST – PILING MAT

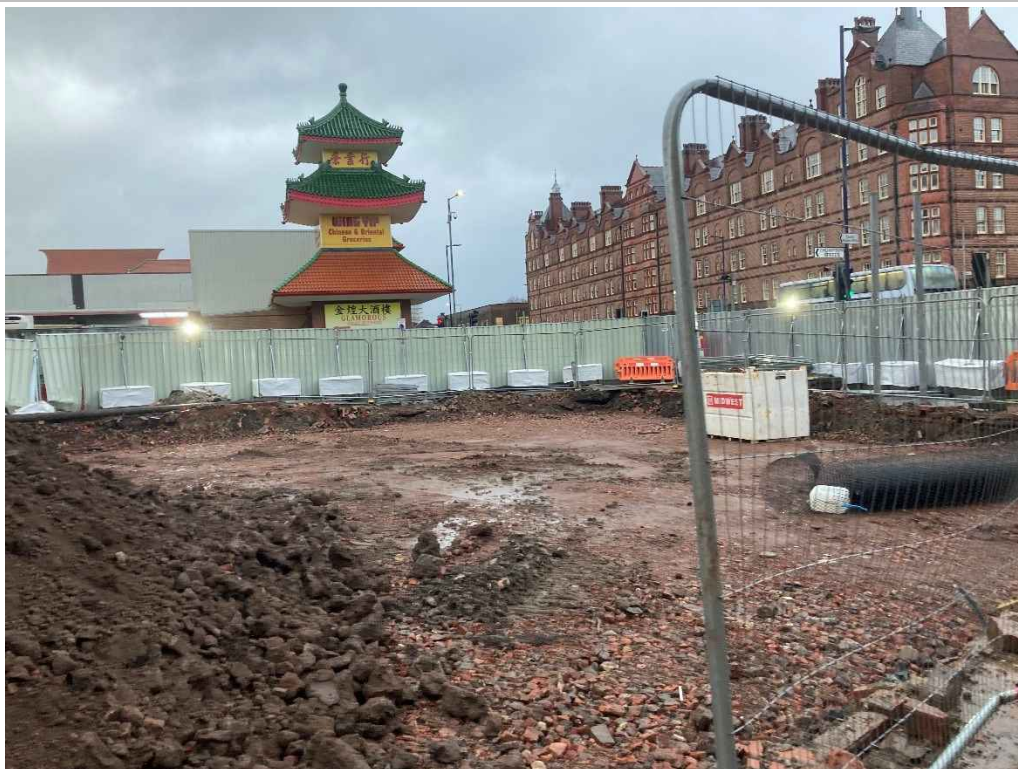


PLATE 11 **VIEW OF SITE FACING EAST PRIOR TO PLACEMENT OF PILE MAT**



PLATE 12 **VIEW OF SITE FACING NORTH – UNDERTAKING PLACEMENT OF PILE MAT**



Further photographs can be provided upon request.



APPENDIX VI

GEOTECHNICAL TESTING

RESULTS



LABORATORY REPORT



4043

Contract Number: PSL21/8775

Report Date: 13 December 2021

Client's Reference: 12729

Client Name: E3P
Taylor Road
Urmston
Manchester
M41 7JQ

For the attention of: Elizabeth Fearn

Contract Title: Thompson Street

Date Received: 8/11/2021

Date Commenced: 8/11/2021

Date Completed: 13/12/202

Notes: Opinions and Interpretations are outside the UKAS Accreditation

A copy of the Laboratory Schedule of accredited tests as issued by UKAS is attached to this report. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced other than in full, without the prior written approval of the laboratory.

Checked and Approved Signatories:

A Watkins
(Director)

R Berriman
(Quality Manager)

S Royle
(Laboratory Manager)

L Knight
(Assistant Laboratory Manager)

S Eyre
(Senior Technician)

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Page 1 of

SUMMARY OF LABORATORY SOIL DESCRIPTIONS

[illegible]

4043

PSL
Professional Soils Laboratory

Thompson Street

Contract No:

PSL21/8775

Client Ref:

12729-EF-N

PARTICLE SIZE DISTRIBUTION TEST

BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

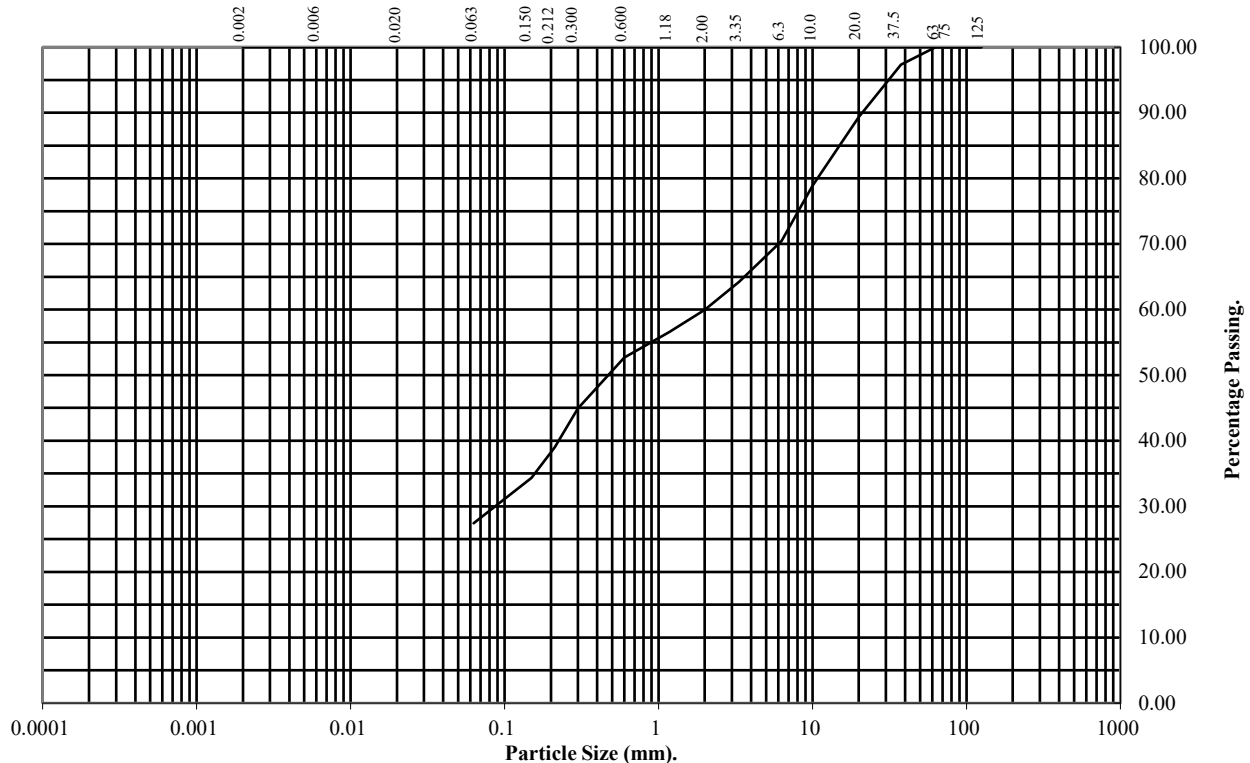
Hole Number: MG101

Top Depth (m):

Sample Number:

Base Depth(m):

Sample Type: Bulk



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	97
20	89
10	79
6.3	70
3.35	64
2	60
1.18	57
0.6	53
0.3	45
0.212	39
0.15	34
0.063	27

Soil Fraction	Total Percentage
Cobbles	0
Gravel	40
Sand	33
Silt/Clay	27

Remarks:

See Summary of Soil Descriptions



Thompson Street

Contract No:

PSL21/8775

Client Ref:

12729-EF-N

DRY DENSITY / MOISTURE CONTENT RELATIONSHIP

BS 1377 : Part 4 : Clause 3.6 : 1990

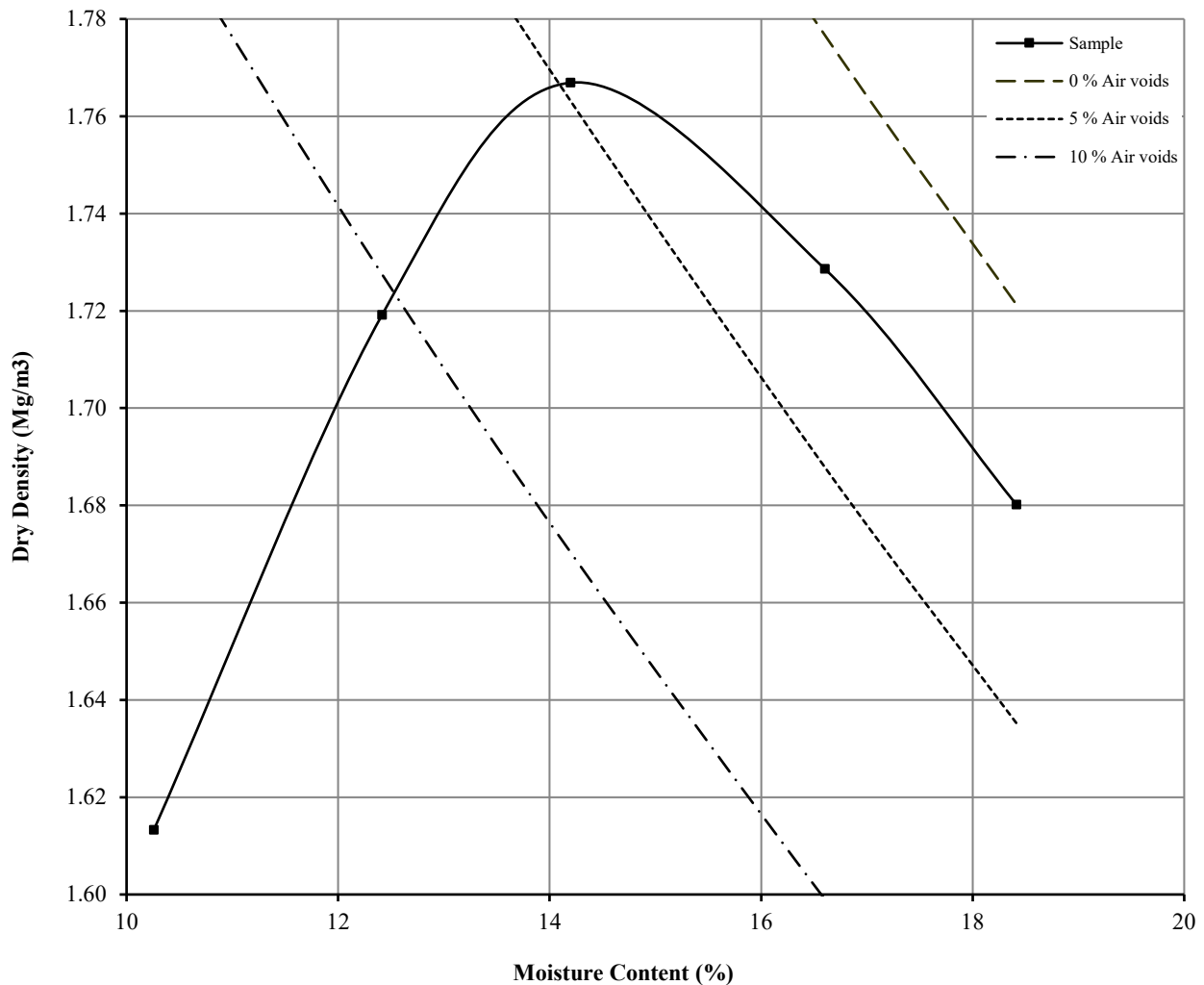
Hole Number: MG101

Top Depth (m) :

Sample Number:

Base Depth (m) :

Sample Type: Bulk



Initial Moisture Content:	18	Method of Compaction:	4.5kg	Separate Samples
Particle Density (Mg/m3):	2.52	Assumed	Material Retained on 37.5 mm Test Sieve (%):	3
Maximum Dry Density (Mg/m3):	1.77		Material Retained on 20.0 mm Test Sieve (%):	8
Optimum Moisture Content (%):	14			
Remarks See summary of soil descriptions				



Thompson Street

Contract
PSL21/8775
Client Ref
12729-EF-N



LABORATORY REPORT



4043

Contract Number: PSL21/9317

Report Date: 06 January 2022

Client's Reference: 12729

Client Name: E3P
Taylor Road
Urmston
Manchester
M41 7JQ

For the attention of: Elizabeth Fearn/Georgia Clavert

Contract Title: Thompson Street

Date Received: 26/11/2021

Date Commenced: 26/11/2021

Date Completed: 06/1/2022

Notes: Opinions and Interpretations are outside the UKAS Accreditation

A copy of the Laboratory Schedule of accredited tests as issued by UKAS is attached to this report. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced other than in full, without the prior written approval of the laboratory.

Checked and Approved Signatories:

A Watkins
(Director)

R Berriman
(Quality Manager)

S Royle
(Laboratory Manager)

L Knight
(Assistant Laboratory Manager)


S Eyre
(Senior Technician)

T Watkins
(Senior Technician)

5 – 7 Hexthorpe Road, Hexthorpe,
Doncaster DN4 0AR
tel: +44 (0)844 815 6641
fax: +44 (0)844 815 6642
e-mail: rberriman@prosoils.co.uk
awatkins@prosoils.co.uk

Page 1 of

SUMMARY OF LABORATORY SOIL DESCRIPTIONS

[illegible]

4043

PSL
Professional Soils Laboratory

Thompson Street

Contract No:

PSL21/9317

Client Ref:

12729-EF-Q

PARTICLE SIZE DISTRIBUTION TEST

BS1377:Part 2:1990

Wet Sieve: Clause 9.2

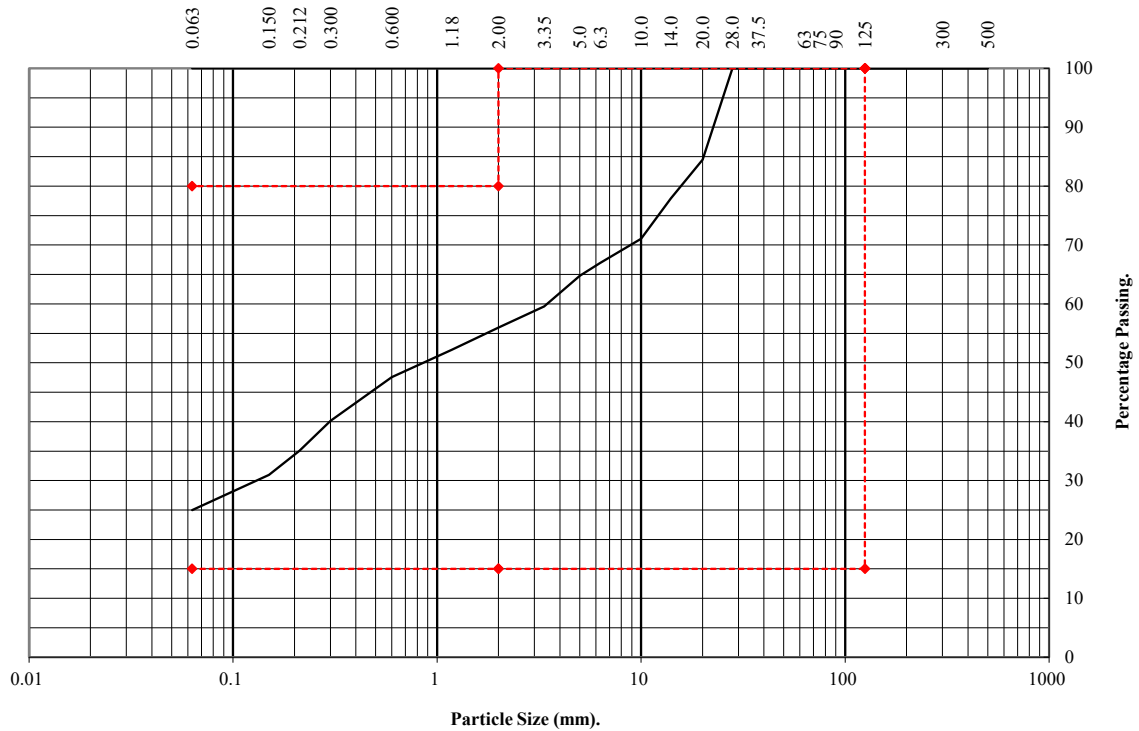
Classification for Acceptable Earthworks Materials

Sample Number:

MG201

Classification Type:

2C



BS Test Sieve mm	Percentage Passing %	Table 6/2 Grading Requirements	
		Lower	Upper
500	100		
300	100		
125	100	100	100
90	100		
75	100		
63	100		
37.5	100		
28	100		
20	84		
14	78		
10	71		
6.3	67		
5	65		
3.35	60		
2	56	15	80
1.18	52		
0.6	48		
0.3	40		
0.212	35		
0.15	31		
0.063	25	15	80

Remarks:

SHW Series 600 Table 6/2 :
Class 2C



Thompson Street

Contract No.:

12729-EF-Q

Client Ref:

PSL21/9317

DRY DENSITY / MOISTURE CONTENT RELATIONSHIP

BS 1377 : Part 4 : Clause 3.6 : 1990

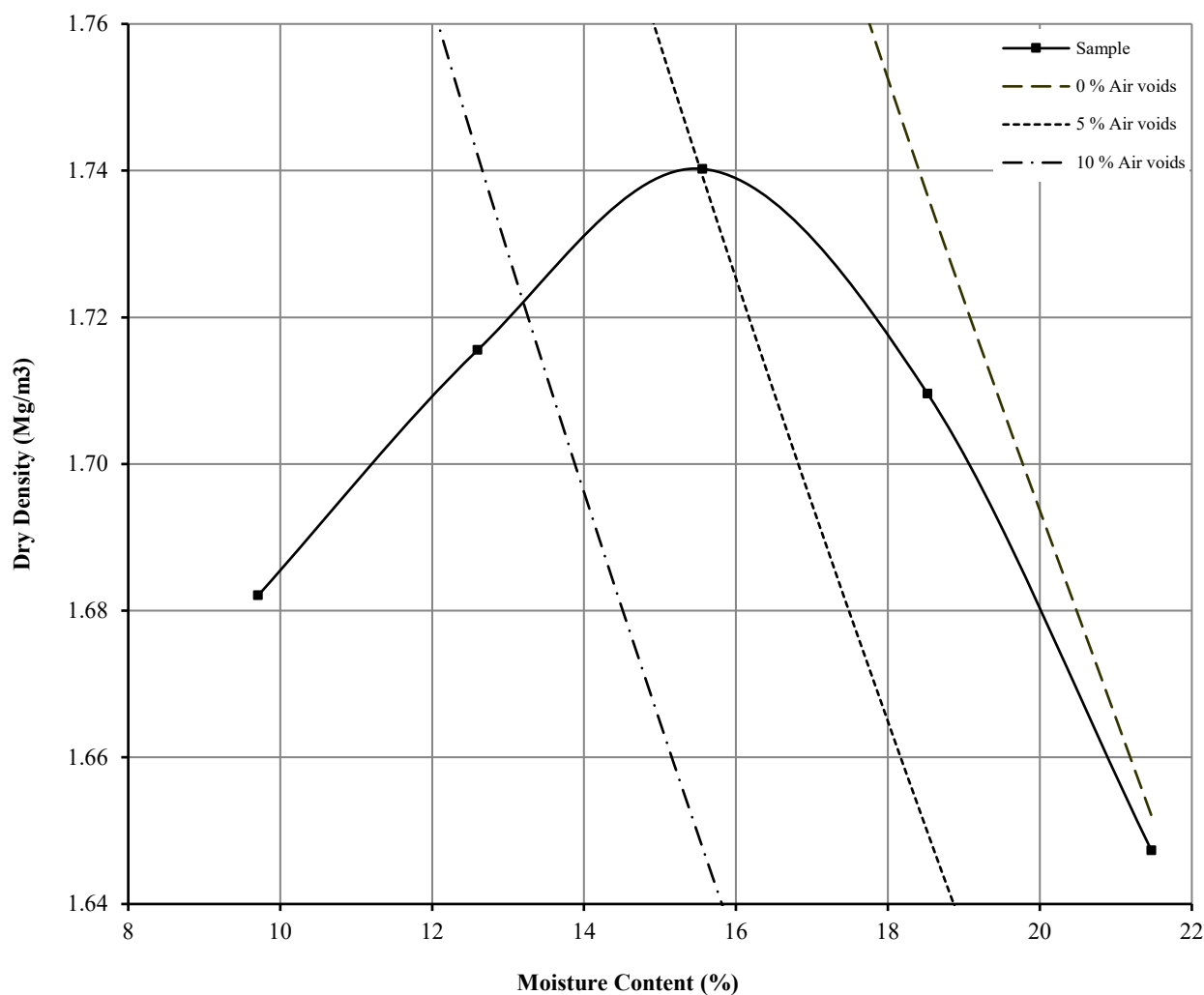
Hole Number: MG201

Top Depth (m) :

Sample Number:

Base Depth (m) :

Sample Type: B



Initial Moisture Content:	21	Method of Compaction:	4.5kg	Separate Samples
Particle Density (Mg/m ³):	2.56	Assumed	Material Retained on 37.5 mm Test Sieve (%):	0
Maximum Dry Density (Mg/m ³):	1.74		Material Retained on 20.0 mm Test Sieve (%):	16
Optimum Moisture Content (%):	16			
Remarks See summary of soil descriptions				



PSL
Professional Soils Laboratory

Thompson Street

Contract
PSL21/9317
Client Ref
12729-EF-Q



LABORATORY REPORT



4043

Contract Number: PSL21/9649

Report Date: 03 February 2022

Client's Reference: 000127

Client Name: E3P
Taylor Road
Urmston
Manchester
M41 7JQ

For the attention of: Elizabeth Fearn

Contract Title: Thompson Street

Date Received: 9/12/2021

Date Commenced: 9/12/2021

Date Completed: 3/2/2022

Notes: Opinions and Interpretations are outside the UKAS Accreditation

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A Watkins
(Director)

R Berriman
(Quality Manager)

S Royle
(Laboratory Manager)

L Knight
(Assistant Laboratory Manager)

S Eyre
(Senior Technician)

T Watkins
(Senior Technician)

5 – 7 Hexthorpe Road, Hexthorpe,
Doncaster DN4 0AR
tel: +44 (0)844 815 6641
fax: +44 (0)844 815 6642
e-mail: rberriman@prosoils.co.uk
awatkins@prosoils.co.uk

Page 1 of

SUMMARY OF LABORATORY SOIL DESCRIPTIONS

[illegible]

4043

PSL
Professional Soils Laboratory

Thompson Street

Contract No:

PSL21/9649

Client Ref:

127

PARTICLE SIZE DISTRIBUTION TEST

BS1377:Part 2:1990

Wet Sieve: Clause 9.2

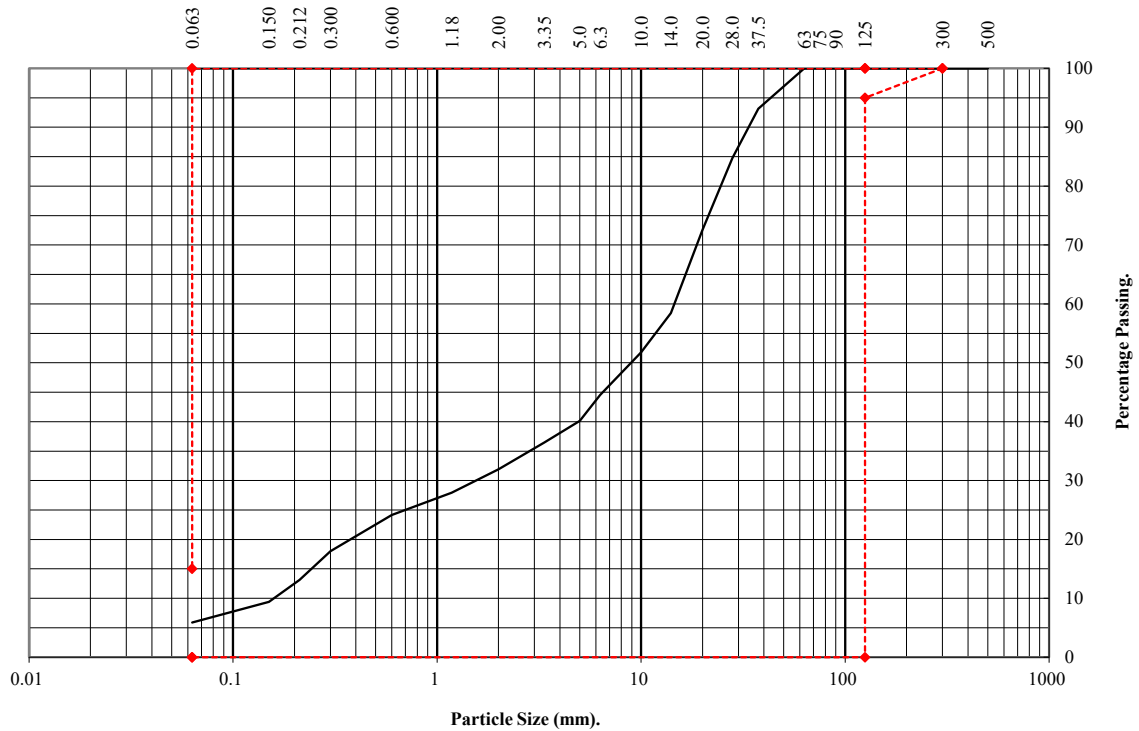
Classification for Acceptable Earthworks Materials

Sample Number:

MG301

Classification Type:

1A



BS Test Sieve mm	Percentage Passing %	Table 6/2 Grading Requirements	
		Lower	Upper
500	100		
300	100	100	100
125	100	95	100
90	100		
75	100		
63	100		
37.5	93		
28	85		
20	73		
14	58		
10	52		
6.3	45		
5	40		
3.35	36		
2	32		
1.18	28		
0.6	24		
0.3	18		
0.212	13		
0.15	9		
0.063	6	0	15

Remarks:

SHW Series 600 Table 6/2 :
Class 1A



Thompson Street

Contract No.:

PSL21/9649

Client Ref:

127

DRY DENSITY / MOISTURE CONTENT RELATIONSHIP

BS 1377 : Part 4 : Clause 3.6 : 1990

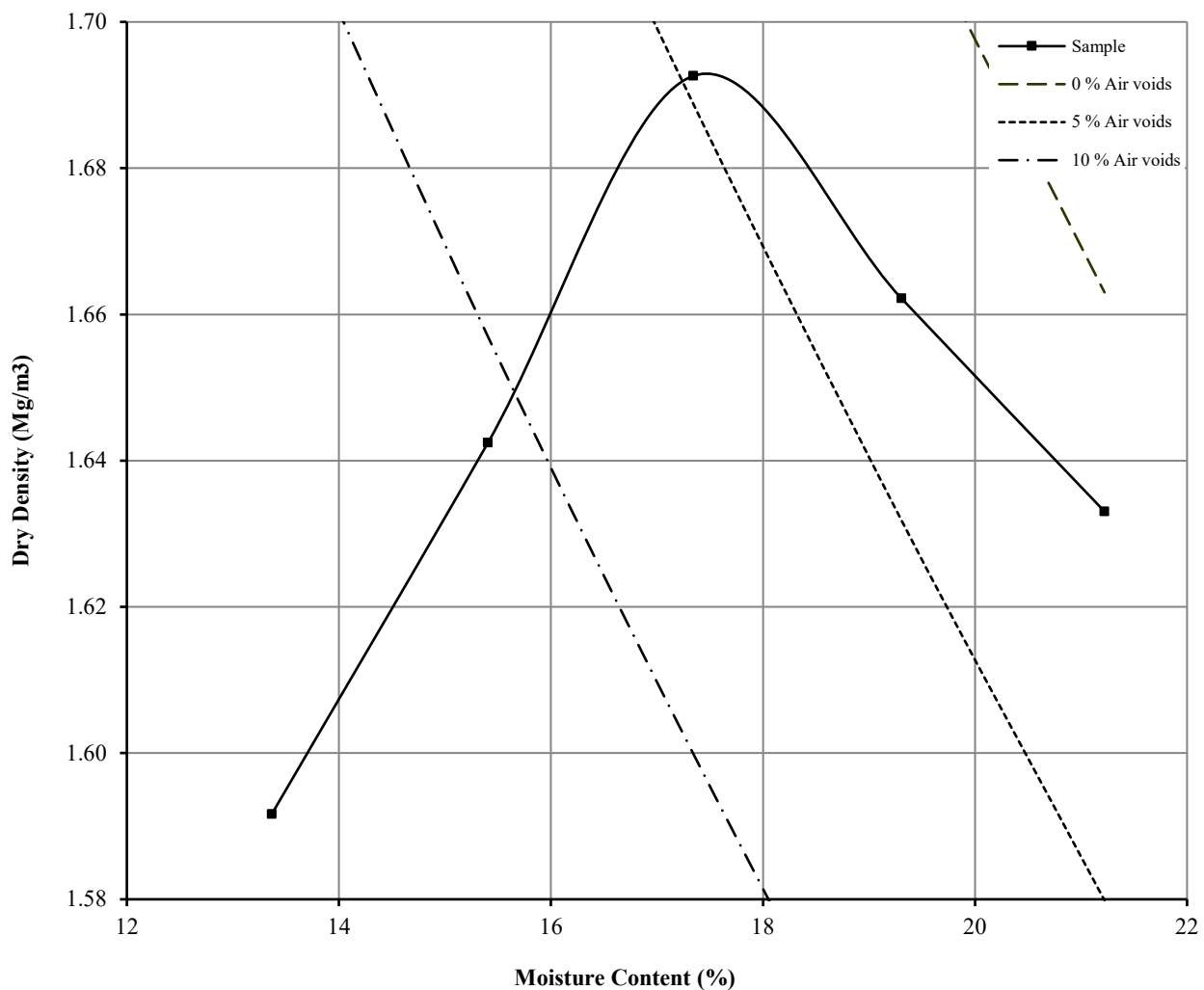
Hole Number: MG301

Top Depth (m) :

Sample Number:

Base Depth (m) :

Sample Type: Bulk



Initial Moisture Content:	23	Method of Compaction:	4.5kg	Separate Samples
Particle Density (Mg/m3):	2.57	Assumed	Material Retained on 37.5 mm Test Sieve (%):	7
Maximum Dry Density (Mg/m3):	1.69		Material Retained on 20.0 mm Test Sieve (%):	20
Optimum Moisture Content (%):	17			
Remarks See summary of soil descriptions				



PSL
Professional Soils Laboratory

Thompson Street

Contract
PSL21/9649
Client Ref
127

TEST REPORT

Client ADM Regeneration Ltd

Address 1st Floor, Theatre Buildings
Carrington Business Park
Manchester Road
Carrington
Manchester Road
M31 4DN

Contract Bendix Street,
Manchester

Job Number MRN 4069/261
Date of Issue 23 November 2021
Pages 1 of 3

Approved Signatories

S J Hutchings, O P Davies

Notes

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Andrew House, Hadfield Street, Dukinfield, Cheshire SK16 4QX Tel: 0161 475 0870
Email: enquiries@murrayrix.com Website: www.murrayrix.com

Also at: London: 020 8523 1999

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MURRAY RIX

Andrew House, Hadfield Street
Dukinfield, Cheshire SK16 4QX
TEL 0161 475 0870



TEST CERTIFICATE

PARTICLE SIZE DISTRIBUTION

BS 1377: PART 2: Clause 9.2: 1990

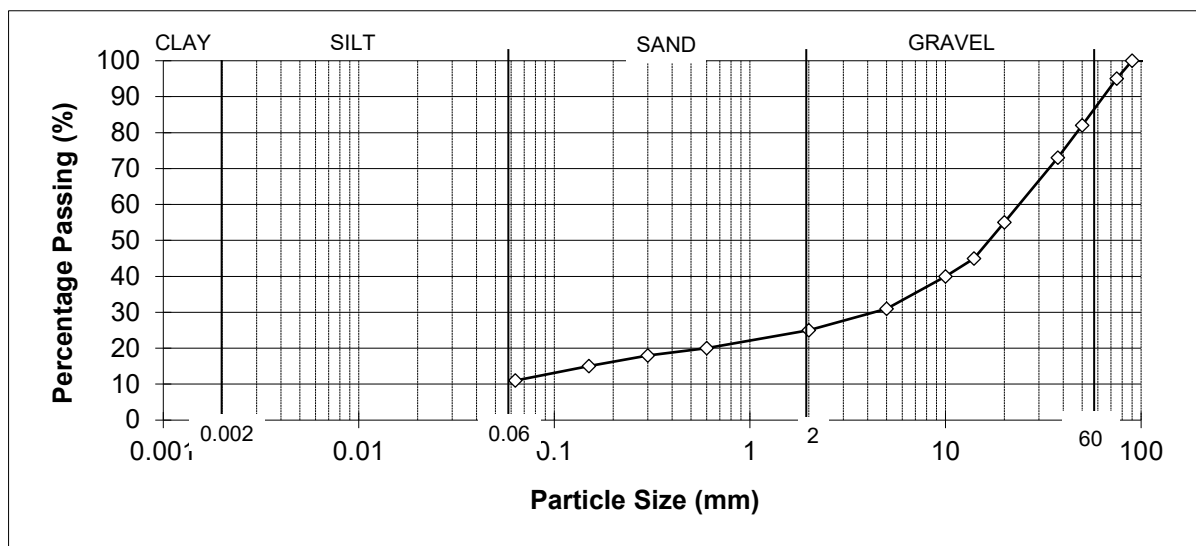
Determination of Moisture Content in accordance with BS 1377: PART 2: Clause 3: 1990 (Oven Dry)

CLIENT	ADM Regeneration Ltd
SITE	Birdgewater Paper Mill, Ellesmere Port
JOB NUMBER	MRN 4069/258

SAMPLE LABEL	BS/CR/01	DATE SAMPLED	12-Nov-21
LAB SAMPLE No	106550	DATE RECEIVED	12-Nov-21
DATE TESTED	15-Nov-21	SAMPLED BY	Client

MATERIAL	Recycled Crush
ADVISED SOURCE	As client and site above

Sieve Size (mm)	% Passing (%)	Specification (%)	Sieve Size (mm)	% Passing (%)	Specification (%)
125	100	100	10	40	15-60
90	100	80-100	5	31	10-45
75	95	65-100	2	25	
50	82		0.6	20	0-25
37.5	73	45-100	0.3	18	
20	55		0.15	15	
14	45		0.063	11	0-12



REMARKS

Sample complies with the grading requirements for a 6F2 material (SHW 2016)

As received moisture content = 8.2%

SIGNED

NAME

O.P. Davies BA (Hons)
(Laboratory Manager)

DATE

23-Nov-21

MURRAY RIX

Andrew House, Hadfield Street
Dukinfield, Cheshire SK16 4QX
TEL 0161 475 0870



TEST CERTIFICATE

PARTICLE SIZE DISTRIBUTION

BS 1377: PART 2: Clause 9.2: 1990

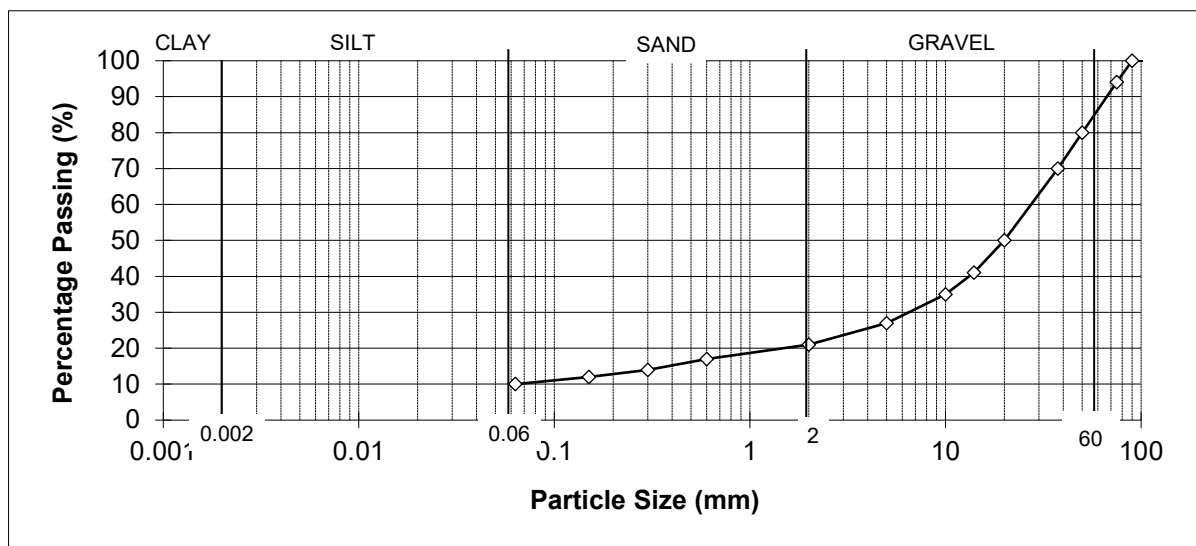
Determination of Moisture Content in accordance with BS 1377: PART 2: Clause 3: 1990 (Oven Dry)

CLIENT	ADM Regeneration Ltd
SITE	Birdgewater Paper Mill, Ellesmere Port
JOB NUMBER	MRN 4069/258

SAMPLE LABEL	BS/CR/02	DATE SAMPLED	12-Nov-21
LAB SAMPLE No	106551	DATE RECEIVED	12-Nov-21
DATE TESTED	15-Nov-21	SAMPLED BY	Client

MATERIAL	Recycled Crush
ADVISED SOURCE	As client and site above

Sieve Size (mm)	% Passing (%)	Specification (%)	Sieve Size (mm)	% Passing (%)	Specification (%)
125	100	100	10	35	15-60
90	100	80-100	5	27	10-45
75	94	65-100	2	21	
50	80		0.6	17	0-25
37.5	70	45-100	0.3	14	
20	50		0.15	12	
14	41		0.063	10	0-12



REMARKS

Sample complies with the grading requirements for a 6F2 material (SHW 2016)

As received moisture content = 8.5%

SIGNED

NAME

O.P. Davies BA (Hons)
(Laboratory Manager)

DATE

23-Nov-21

TEST REPORT

Client ADM Regeneration Ltd

Address First Floor, Theatre Buildings
Carrington Business Park
Manchester Road
Carrington
Manchester
M31 4DN

Contract Bendix Street
Manchester M4 5FS

Job Number MRN 4069/251
Date of Issue 28 October 2021
Total Pages 1 of 3

Approved Signatories

S J Hutchings, O P Davies

Notes

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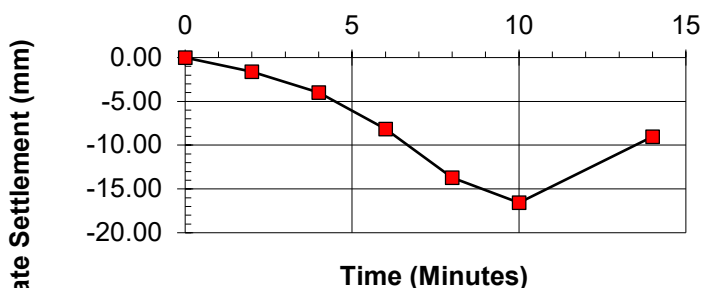
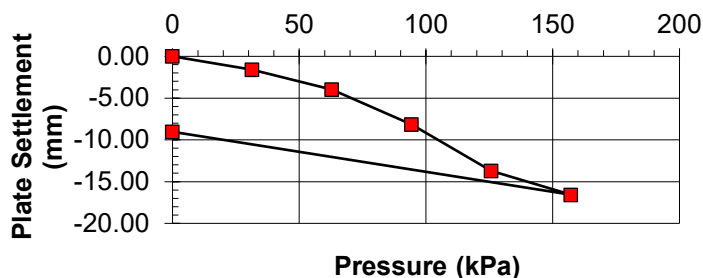
TEST CERTIFICATE

PLATE INCREMENTAL LOAD TEST

BS 1377 : PART 9 : CL 4.1 and IAN 73/06 Rev 1 (2009)

CLIENT	ADM Regeneration Ltd		
SITE	Bendix Street, Manchester M4 5FS		
JOB NUMBER	MRN 4069/251		
TEST LOCATION	1	LOADING DEVICE	20 Tonne Enerpac Jack
TEST DATE	27-Oct-21	PLATE SIZE (mm)	450 diameter
TEST DEPTH	Surface	REACTION LOAD USED	Site Plant
MATERIAL UNDER TEST	Clay	MOISTURE CONTENT	Not Required

Dial Gauge 1 (mmx100)	Dial Gauge 2 (mmx100)	Dial Gauge 3 (mmx100)	Mean Gauge (mmx100)	Mean Deflection (mm)	Load (kN)	Pressure (kPa)
4787	4881	4873	4847	0.00	0.00	0.0
4629	4725	4703	4686	-1.61	5.00	31.4
4389	4485	4475	4450	-3.97	10.00	62.9
3963	4055	4075	4031	-8.16	15.00	94.3
3398	3479	3553	3477	-13.70	20.00	125.8
3103	3181	3285	3190	-16.57	25.00	157.2
3906	3972	3949	3942	-9.05	0.00	0.0



Pressure at 1.25 mm deflexion =	24 kPa
Modulus of subgrade reaction (k) =	19 MPa/m
Equivalent 762 mm plate reaction =	12 MPa/m
Equivalent CBR =	0.7 %

REMARKS

SIGNED



NAME O.P. Davies BA (Hons)
(Laboratory Manager)

DATE 28-Oct-21

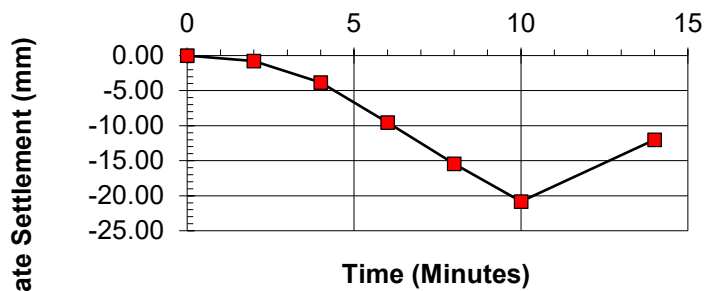
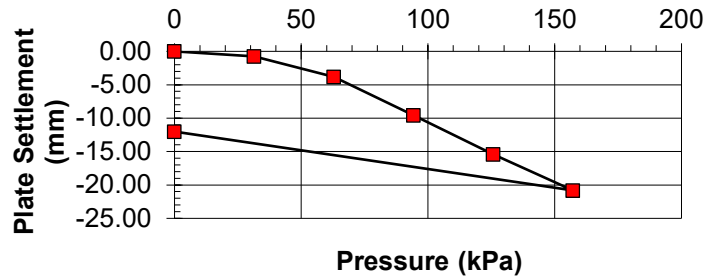
TEST CERTIFICATE

PLATE INCREMENTAL LOAD TEST

BS 1377 : PART 9 : CL 4.1 and IAN 73/06 Rev 1 (2009)

CLIENT	ADM Regeneration Ltd		
SITE	Bendix Street, Manchester M4 5FS		
JOB NUMBER	MRN 4069/251		
TEST LOCATION	2	LOADING DEVICE	20 Tonne Enerpac Jack
TEST DATE	27-Oct-21	PLATE SIZE (mm)	450 diameter
TEST DEPTH	Surface	REACTION LOAD USED	Site Plant
MATERIAL UNDER TEST	Clay	MOISTURE CONTENT	Not Required

Dial Gauge 1 (mmx100)	Dial Gauge 2 (mmx100)	Dial Gauge 3 (mmx100)	Mean Gauge (mmx100)	Mean Deflection (mm)	Load (kN)	Pressure (kPa)
4699	4773	4696	4723	0.00	0.00	0.0
4633	4690	4614	4646	-0.77	5.00	31.4
4340	4377	4305	4341	-3.82	10.00	62.9
3748	3799	3748	3765	-9.58	15.00	94.3
3197	3181	3159	3179	-15.44	20.00	125.8
2665	2621	2636	2641	-20.82	25.00	157.2
3539	3544	3484	3522	-12.00	0.00	0.0



Pressure at 1.25 mm deflexion =	36 kPa
Modulus of subgrade reaction (k) =	29 MPa/m
Equivalent 762 mm plate reaction =	18 MPa/m
Equivalent CBR =	1.5 %

REMARKS

SIGNED



NAME O.P. Davies BA (Hons)
(Laboratory Manager)

DATE 28-Oct-21

TEST REPORT

Client ADM Regeneration Ltd

Address First Floor, Theatre Buildings
Carrington Business Park
Manchester Road
Carrington
Manchester
M31 4DN

Contract Bendix Street
Manchester M4 5FS

Job Number MRN 4069/255A
Date of Issue 18 November 2021
Total Pages 1 of 3

Approved Signatories

S J Hutchings, O P Davies

Notes

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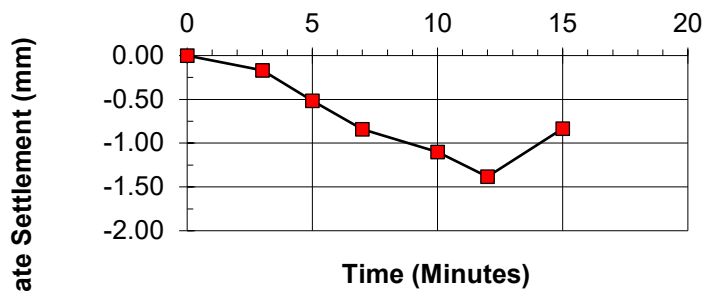
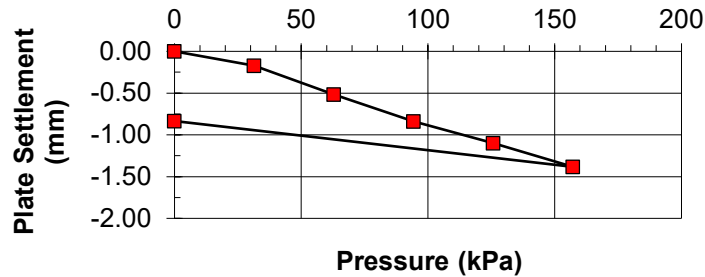
TEST CERTIFICATE

PLATE INCREMENTAL LOAD TEST

BS 1377 : PART 9 : CL 4.1 and IAN 73/06 Rev 1 (2009)

CLIENT	ADM Regeneration Ltd		
SITE	Bendix Street, Manchester M4 5FS		
JOB NUMBER	MRN 4069/255A		
TEST LOCATION	1	LOADING DEVICE	20 Tonne Enerpac Jack
TEST DATE	17-Nov-21	PLATE SIZE (mm)	450 diameter
TEST DEPTH	-500mm	REACTION LOAD USED	Site Plant
MATERIAL UNDER TEST	Granular Fill	MOISTURE CONTENT	Not Required

Dial Gauge 1 (mmx100)	Dial Gauge 2 (mmx100)	Dial Gauge 3 (mmx100)	Mean Gauge (mmx100)	Mean Deflection (mm)	Load (kN)	Pressure (kPa)
3993	4011	4018	4007	0.00	0.00	0.0
3979	3991	4001	3990	-0.17	5.00	31.4
3956	3955	3956	3956	-0.52	10.00	62.9
3915	3930	3925	3923	-0.84	15.00	94.3
3892	3901	3899	3897	-1.10	20.00	125.8
3857	3869	3881	3869	-1.38	25.00	157.2
3931	3917	3924	3924	-0.83	0.00	0.0



Pressure at 1.25 mm deflexion =	142 kPa
Modulus of subgrade reaction (k) =	114 MPa/m
Equivalent 762 mm plate reaction =	71 MPa/m
Equivalent CBR =	15.6 %

REMARKS

SIGNED



NAME O.P. Davies BA (Hons)
(Laboratory Manager)

DATE 18-Nov-21

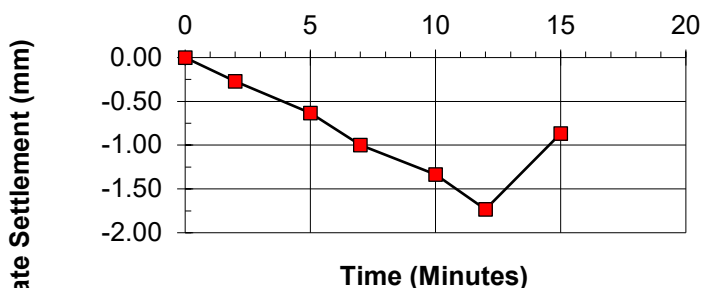
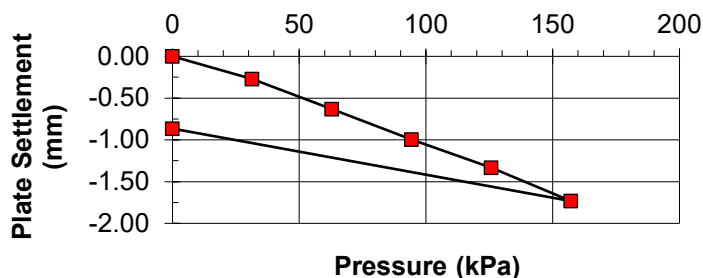
TEST CERTIFICATE

PLATE INCREMENTAL LOAD TEST

BS 1377 : PART 9 : CL 4.1 and IAN 73/06 Rev 1 (2009)

CLIENT	ADM Regeneration Ltd		
SITE	Bendix Street, Manchester M4 5FS		
JOB NUMBER	MRN 4069/255A		
TEST LOCATION	2	LOADING DEVICE	20 Tonne Enerpac Jack
TEST DATE	17-Nov-21	PLATE SIZE (mm)	450 diameter
TEST DEPTH	-500mm	REACTION LOAD USED	Site Plant
MATERIAL UNDER TEST	Granular Fill	MOISTURE CONTENT	Not Required

Dial Gauge 1 (mmx100)	Dial Gauge 2 (mmx100)	Dial Gauge 3 (mmx100)	Mean Gauge (mmx100)	Mean Deflection (mm)	Load (kN)	Pressure (kPa)
4106	4134	4130	4123	0.00	0.00	0.0
4069	4109	4111	4096	-0.27	5.00	31.4
4031	4077	4072	4060	-0.63	10.00	62.9
3995	4042	4034	4024	-1.00	15.00	94.3
3966	4017	3987	3990	-1.33	20.00	125.8
3929	3976	3945	3950	-1.73	25.00	157.2
4004	4078	4028	4037	-0.87	0.00	0.0



Pressure at 1.25 mm deflexion =	118 kPa
Modulus of subgrade reaction (k) =	94 MPa/m
Equivalent 762 mm plate reaction =	59 MPa/m
Equivalent CBR =	11.2 %

REMARKS

SIGNED



NAME O.P. Davies BA (Hons)
(Laboratory Manager)

DATE 18-Nov-21

TEST REPORT

Client ADM Regeneration Ltd

Address First Floor, Theatre Buildings
Carrington Business Park
Manchester Road
Carrington
Manchester
M31 4DN

Contract Bendix Street
Manchester M4 5FS

Job Number MRN 4069/259A
Date of Issue 23 November 2021
Total Pages 1 of 3

Approved Signatories

S J Hutchings, O P Davies

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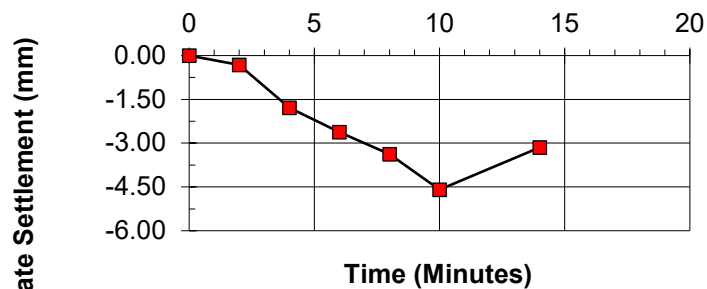
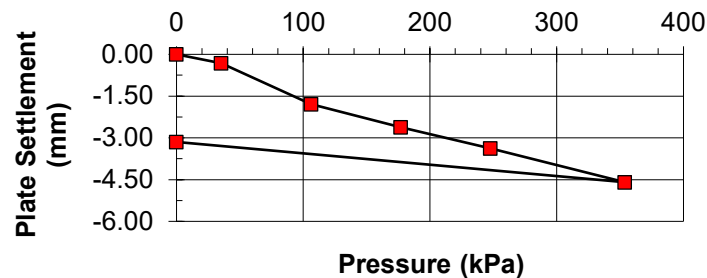
TEST CERTIFICATE

PLATE INCREMENTAL LOAD TEST

BS 1377 : PART 9 : CL 4.1 and IAN 73/06 Rev 1 (2009)

CLIENT	ADM Regeneration Ltd		
SITE	Bendix Street, Manchester M4 5FS		
JOB NUMBER	MRN 4069/259A		
TEST LOCATION	1	LOADING DEVICE	20 Tonne Enerpac Jack
TEST DATE	22-Nov-21	PLATE SIZE (mm)	600 diameter
TEST DEPTH	Surface	REACTION LOAD USED	Site Plant
MATERIAL UNDER TEST	Formation	MOISTURE CONTENT	Not Required

Dial Gauge 1 (mmx100)	Dial Gauge 2 (mmx100)	Dial Gauge 3 (mmx100)	Mean Gauge (mmx100)	Mean Deflection (mm)	Load (kN)	Pressure (kPa)
4695	4691	4732	4706	0.00	0.00	0.0
4659	4663	4699	4674	-0.32	10.00	35.4
4501	4533	4546	4527	-1.79	30.00	106.1
4417	4450	4465	4444	-2.62	50.00	176.8
4336	4371	4397	4368	-3.38	70.00	247.6
4203	4247	4290	4247	-4.59	100.00	353.7
4338	4406	4431	4392	-3.14	0.00	0.0



Pressure at 1.25 mm deflexion =	80 kPa
Modulus of subgrade reaction (k) =	64 MPa/m
Equivalent 762 mm plate reaction =	51 MPa/m
Equivalent CBR =	8.9 %

REMARKS

SIGNED



NAME O.P. Davies BA (Hons)
(Laboratory Manager)

DATE 23-Nov-21

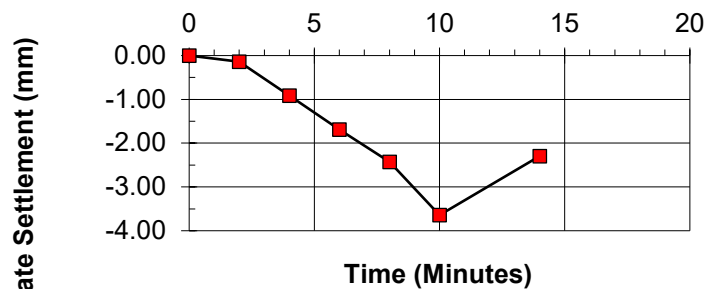
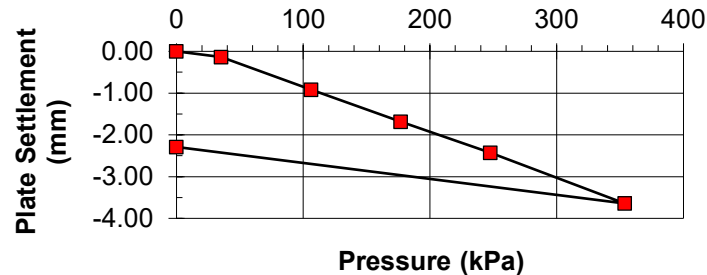
TEST CERTIFICATE

PLATE INCREMENTAL LOAD TEST

BS 1377 : PART 9 : CL 4.1 and IAN 73/06 Rev 1 (2009)

CLIENT	ADM Regeneration Ltd		
SITE	Bendix Street, Manchester M4 5FS		
JOB NUMBER	MRN 4069/259A		
TEST LOCATION	2	LOADING DEVICE	20 Tonne Enerpac Jack
TEST DATE	22-Nov-21	PLATE SIZE (mm)	600 diameter
TEST DEPTH	Surface	REACTION LOAD USED	Site Plant
MATERIAL UNDER TEST	Crush	MOISTURE CONTENT	Not Required

Dial Gauge 1 (mmx100)	Dial Gauge 2 (mmx100)	Dial Gauge 3 (mmx100)	Mean Gauge (mmx100)	Mean Deflection (mm)	Load (kN)	Pressure (kPa)
4862	4839	4860	4854	0.00	0.00	0.0
4848	4824	4848	4840	-0.14	10.00	35.4
4765	4753	4768	4762	-0.92	30.00	106.1
4680	4679	4696	4685	-1.69	50.00	176.8
4599	4604	4630	4611	-2.43	70.00	247.6
4469	4476	4523	4489	-3.64	100.00	353.7
4614	4640	4619	4624	-2.29	0.00	0.0



Pressure at 1.25 mm deflexion =	137 kPa
Modulus of subgrade reaction (k) =	109 MPa/m
Equivalent 762 mm plate reaction =	88 MPa/m
Equivalent CBR =	22.6 %

REMARKS

SIGNED



NAME O.P. Davies BA (Hons)
(Laboratory Manager)

DATE 23-Nov-21

TEST REPORT

Client ADM Regeneration Ltd

Address First Floor, Theatre Buildings
Carrington Business Park
Manchester Road
Carrington
Manchester
M31 4DN

Contract Bendix Street
Manchester M4 5FS

Job Number MRN 4069/262
Date of Issue 25 November 2021
Total Pages 1 of 4

Approved Signatories

S J Hutchings, O P Davies

Notes

- 1 All remaining samples and remnants from this contract will be disposed 28 days from the date of this report unless you notify us to the contrary.
- 2 Result certificates, in this report, not bearing a UKAS mark, are not included in our UKAS accreditation schedule.
- 3 Opinions and interpretations expressed herein are outside the scope of our UKAS accreditation.
- 4 Certified that the samples have been examined and tested in accordance with the terms of the contract/order and unless otherwise stated conform to the standards/specifications quoted.
- 5 The results included within the report are representative of the samples submitted for analysis.
- 6 This certificate should not be reproduced, except in full, without the express permission of the laboratory.

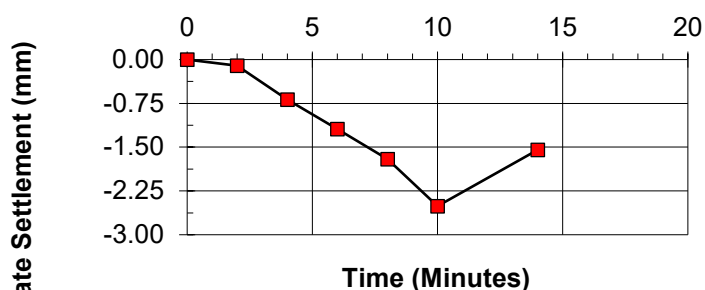
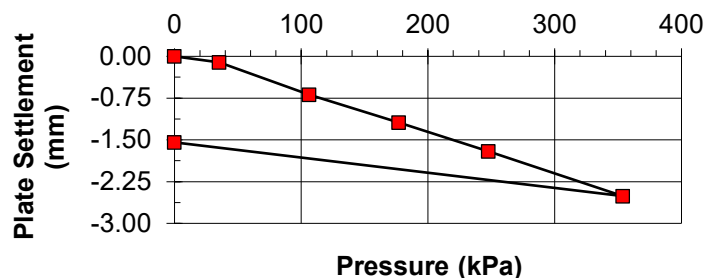
TEST CERTIFICATE

PLATE INCREMENTAL LOAD TEST

BS 1377 : PART 9 : CL 4.1 and IAN 73/06 Rev 1 (2009)

CLIENT	ADM Regeneration Ltd		
SITE	Bendix Street, Manchester M4 5FS		
JOB NUMBER	MRN 4069/262		
TEST LOCATION	1 - Top of Surface	LOADING DEVICE	20 Tonne Enerpac Jack
TEST DATE	24-Nov-21	PLATE SIZE (mm)	600 diameter
TEST DEPTH	Surface	REACTION LOAD USED	Site Plant
MATERIAL UNDER TEST	Crush	MOISTURE CONTENT	Not Required

Dial Gauge 1 (mmx100)	Dial Gauge 2 (mmx100)	Dial Gauge 3 (mmx100)	Mean Gauge (mmx100)	Mean Deflection (mm)	Load (kN)	Pressure (kPa)
4888	4841	4885	4871	0.00	0.00	0.0
4877	4829	4876	4861	-0.11	10.00	35.4
4823	4759	4826	4803	-0.69	30.00	106.1
4775	4701	4781	4752	-1.19	50.00	176.8
4721	4635	4746	4701	-1.71	70.00	247.6
4643	4530	4688	4620	-2.51	100.00	353.7
4719	4663	4768	4717	-1.55	0.00	0.0



Pressure at 1.25 mm deflexion =	185 kPa
Modulus of subgrade reaction (k) =	148 MPa/m
Equivalent 762 mm plate reaction =	119 MPa/m
Equivalent CBR =	38.2 %

REMARKS

SIGNED



NAME O.P. Davies BA (Hons)
(Laboratory Manager)

DATE 25-Nov-21

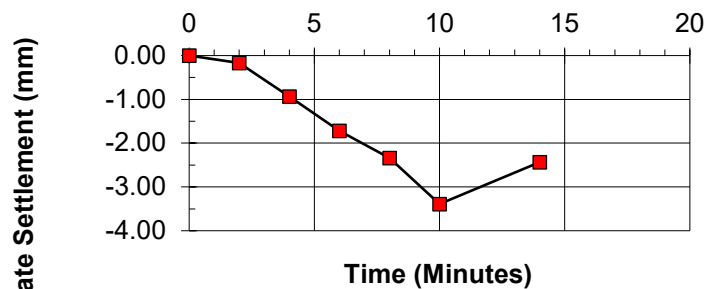
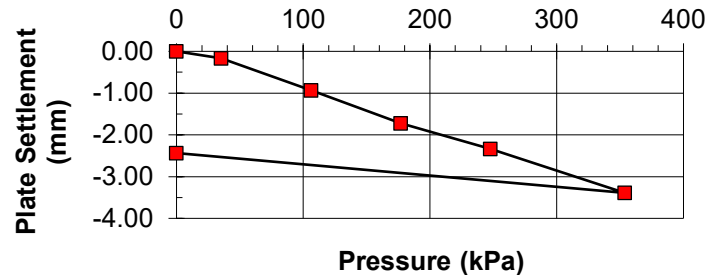
TEST CERTIFICATE

PLATE INCREMENTAL LOAD TEST

BS 1377 : PART 9 : CL 4.1 and IAN 73/06 Rev 1 (2009)

CLIENT	ADM Regeneration Ltd		
SITE	Bendix Street, Manchester M4 5FS		
JOB NUMBER	MRN 4069/262		
TEST LOCATION	2 - Top of Surface	LOADING DEVICE	20 Tonne Enerpac Jack
TEST DATE	24-Nov-21	PLATE SIZE (mm)	600 diameter
TEST DEPTH	Formation	REACTION LOAD USED	Site Plant
MATERIAL UNDER TEST	Crush	MOISTURE CONTENT	Not Required

Dial Gauge 1 (mmx100)	Dial Gauge 2 (mmx100)	Dial Gauge 3 (mmx100)	Mean Gauge (mmx100)	Mean Deflection (mm)	Load (kN)	Pressure (kPa)
4769	4781	4848	4799	0.00	0.00	0.0
4745	4763	4840	4783	-0.17	10.00	35.4
4645	4692	4781	4706	-0.93	30.00	106.1
4573	4602	4707	4627	-1.72	50.00	176.8
4516	4530	4651	4566	-2.34	70.00	247.6
4410	4402	4569	4460	-3.39	100.00	353.7
4497	4543	4628	4556	-2.43	0.00	0.0



Pressure at 1.25 mm deflexion =	135 kPa
Modulus of subgrade reaction (k) =	108 MPa/m
Equivalent 762 mm plate reaction =	87 MPa/m
Equivalent CBR =	22.0 %

REMARKS

SIGNED



NAME O.P. Davies BA (Hons)
(Laboratory Manager)

DATE 25-Nov-21

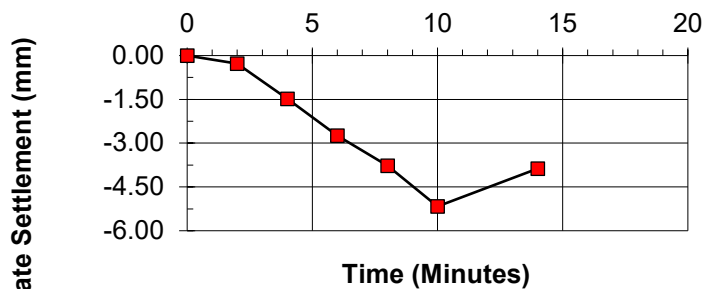
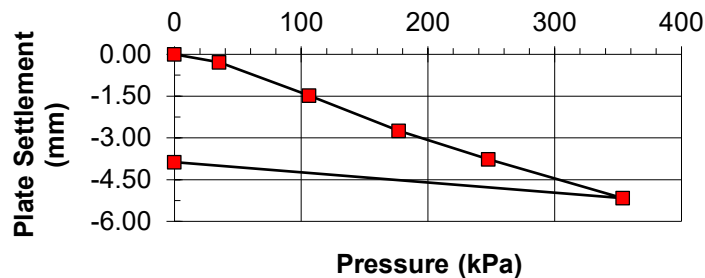
TEST CERTIFICATE

PLATE INCREMENTAL LOAD TEST

BS 1377 : PART 9 : CL 4.1 and IAN 73/06 Rev 1 (2009)

CLIENT	ADM Regeneration Ltd		
SITE	Bendix Street, Manchester M4 5FS		
JOB NUMBER	MRN 4069/262		
TEST LOCATION	3 - 500m Down	LOADING DEVICE	20 Tonne Enerpac Jack
TEST DATE	24-Nov-21	PLATE SIZE (mm)	600 diameter
TEST DEPTH	Formation	REACTION LOAD USED	Site Plant
MATERIAL UNDER TEST	Crush	MOISTURE CONTENT	Not Required

Dial Gauge 1 (mmx100)	Dial Gauge 2 (mmx100)	Dial Gauge 3 (mmx100)	Mean Gauge (mmx100)	Mean Deflection (mm)	Load (kN)	Pressure (kPa)
4872	4699	4823	4798	0.00	0.00	0.0
4836	4664	4810	4770	-0.28	10.00	35.4
4705	4524	4721	4650	-1.48	30.00	106.1
4574	4387	4610	4524	-2.74	50.00	176.8
4480	4271	4512	4421	-3.77	70.00	247.6
4325	4113	4406	4281	-5.17	100.00	353.7
4467	4246	4519	4411	-3.87	0.00	0.0



Pressure at 1.25 mm deflexion =	93 kPa
Modulus of subgrade reaction (k) =	74 MPa/m
Equivalent 762 mm plate reaction =	60 MPa/m
Equivalent CBR =	11.5 %

REMARKS

SIGNED



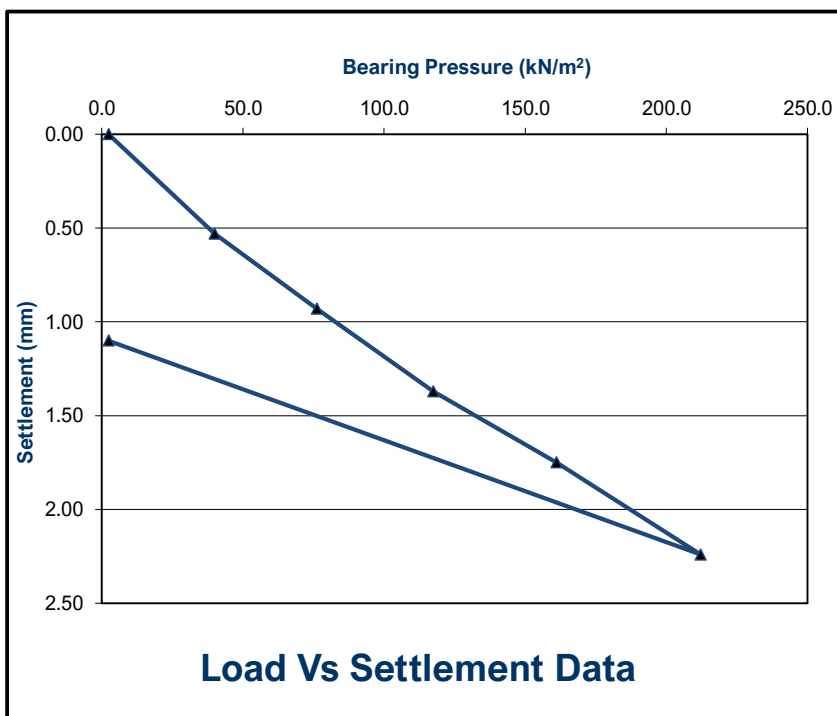
NAME O.P. Davies BA (Hons)
(Laboratory Manager)

DATE 25-Nov-21

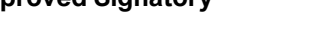
Laboratory Test Report

Plate Loading Test to Determine Equivalent CBR Value	Report No:	SR/255	C0096/1
<i>BS1377: Part 9: 1990 Clause 4.1</i> <i>IAN 73/06 Revision 1: 2009(withdrawn)</i>		Report Date:	30/11/2021

Material Description:	Recycled Demo	Date Tested:	29/11/2021
Test Location:	Plt CBR 3 - Topside	Supplier/Source:	Site Won
Weather:	Snow/Cold/Dry		

[illegible]

Depth of Test	Surface	
Distance From Edge of Plate to Wall of Excavation	N/A	mm
Reaction Load	Bomag Roller	
Bearing Pressure @ 1.25mm Settlement	107.6	kN/m²
Modulus of Subgrade Reaction K762	54.2	kN/m²/mm
Maximum Applied Pressure	212.2	kN/m²
Maximum Settlement	2.24	mm
Plate Correction Factor	0.6291	-

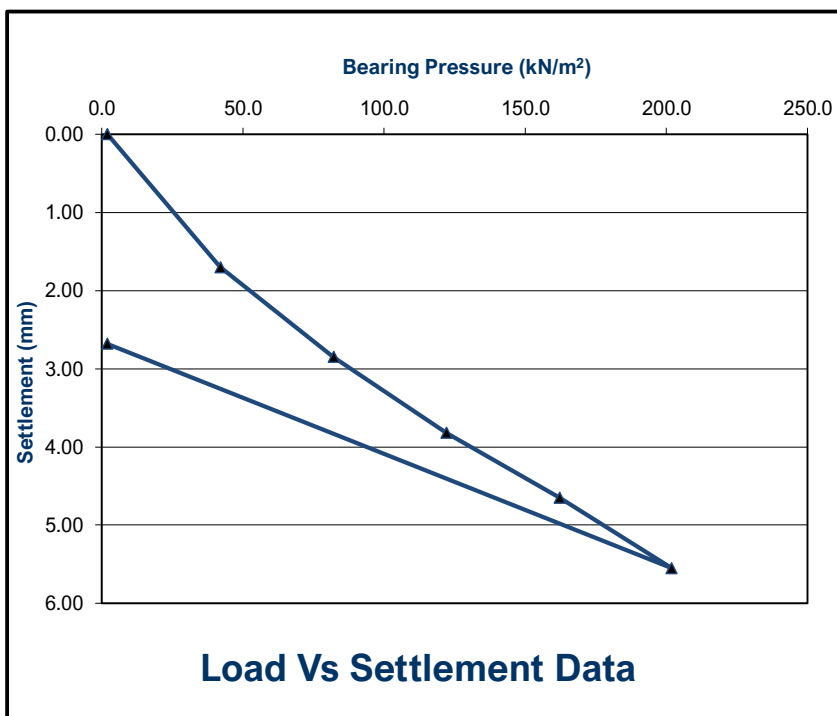
Plate Diameter	455mm	Approved Signatory  L Williams - Director
Moisture Content* (%)	Not Taken	
BS1377: Part 2: 1990 Clause 3.2		
<u>Equivalent CBR Value (%)</u> 9.7		

Client Details	Opinions and Interpretations are outside of the scope of the UKAS Accreditation
ADM Regeneration Ltd	This report may not be reproduced without the prior written approval of the issuing laboratory
Theatre Buildings	The stated result only relates to the location tested / Test location was supplied by client
Carrington Business Park	All sampling falls outside our scope of UKAS accreditation
Manchester Rd	
Carrington	
M31 4DD	QSF-114 Revision 8 - 12.08.2022

Laboratory Test Report

Plate Loading Test to Determine Equivalent CBR Value	Report No:	SR/260	C0096/2
<i>BS1377: Part 9: 1990 Clause 4.1</i> <i>IAN 73/06 Revision 1: 2009(withdrawn)</i>		Report Date:	03/12/2021

Material Description:	Soily Clay/Gravel	Date Tested:	02/12/2021
Test Location:	Plt CBR 1 - Tank	Supplier/Source:	Natrual Ground
Weather:	Sunny/Clear/Cold		

[illegible]

Depth of Test	Surface	
Distance From Edge of Plate to Wall of Excavation	N/A	mm
Reaction Load	Bomag Roller	
Bearing Pressure @ 1.25mm Settlement	30.3	kN/m²
Modulus of Subgrade Reaction K762	19.8	kN/m²/mm
Maximum Applied Pressure	201.9	kN/m²
Maximum Settlement	5.55	mm
Plate Correction Factor	0.8165	-

Plate Diameter	610mm	Approved Signatory  L Williams - Director
Moisture Content* (%)	Not Taken	
BS1377: Part 2: 1990 Clause 3.2		
<u>Equivalent CBR Value (%)</u> 1.7		

Client Details
ADM Regeneration Ltd
Theatre Buildings
Carrington Business Park
Manchester Rd
Carrington
M31 4DD

Opinions and Interpretations are outside of the scope of the UKAS Accreditation

This report may not be reproduced without the prior written approval of the issuing laboratory

The stated result only relates to the location tested / Test location was supplied by client

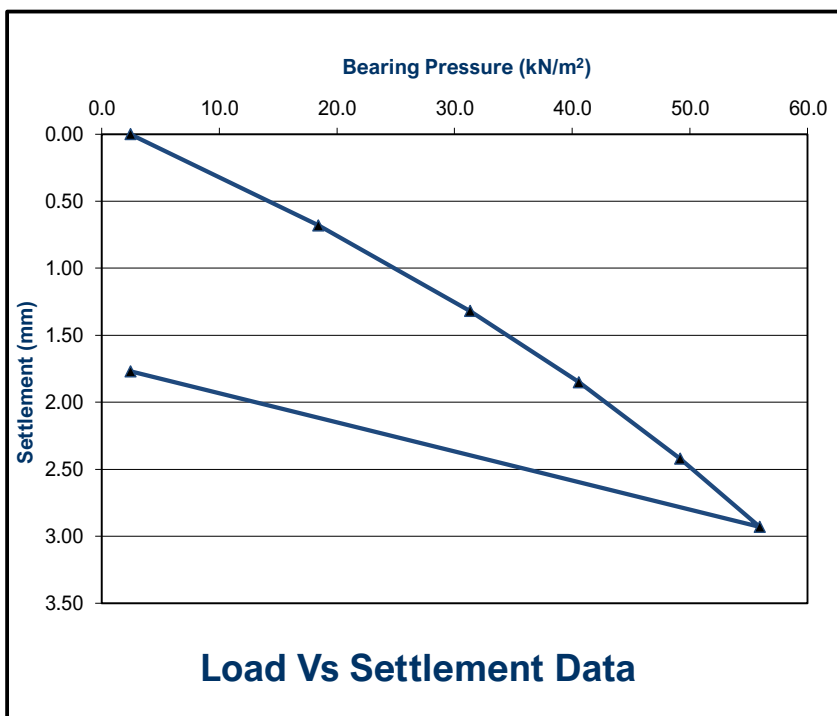
All sampling falls outside our scope of UKAS accreditation

QSF-114 Revision 8 - 12.08.2021

Laboratory Test Report

Plate Loading Test to Determine Equivalent CBR Value	Report No:	SR/260	C0096/2
<i>BS1377: Part 9: 1990 Clause 4.1</i> <i>IAN 73/06 Revision 1: 2009(withdrawn)</i>		Report Date:	03/12/2021

Material Description:	Soily Clay/Gravel	Date Tested:	02/12/2021
Test Location:	Plt CBR 2 - Tank	Supplier/Source:	Natrual Ground
Weather:	Sunny/Clear/Cold		

[illegible]

Depth of Test	Surface	
Distance From Edge of Plate to Wall of Excavation	N/A	mm
Reaction Load	Bomag Roller	
Bearing Pressure @ 1.25mm Settlement	28.9	kN/m ²
Modulus of Subgrade Reaction K762	14.5	kN/m ² /mm
Maximum Applied Pressure	55.9	kN/m ²
Maximum Settlement	2.93	mm
Plate Correction Factor	0.6291	-

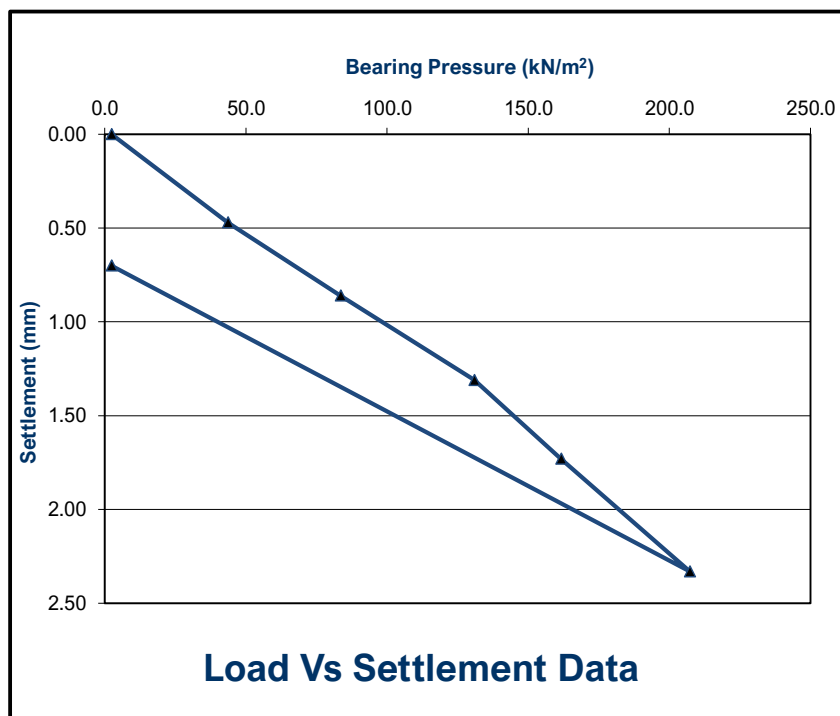
Plate Diameter	455mm	Approved Signatory  L Williams - Director
Moisture Content* (%)	Not Taken	
BS1377: Part 2: 1990 Clause 3.2		
<u>Equivalent CBR Value (%)</u> 1		

Client Details	Opinions and Interpretations are outside of the scope of the UKAS Accreditation
ADM Regeneration Ltd	This report may not be reproduced without the prior written approval of the issuing laboratory
Theatre Buildings	The stated result only relates to the location tested / Test location was supplied by client
Carrington Business Park	All sampling falls outside our scope of UKAS accreditation
Manchester Rd	
Carrington	
M31 4DD	QSF-114 Revision 8 - 12.08.2022

Laboratory Test Report

Plate Loading Test to Determine Equivalent CBR Value	Report No:	SR/260	C0096/2
<i>BS1377: Part 9: 1990 Clause 4.1</i> <i>IAN 73/06 Revision 1: 2009(withdrawn)</i>		Report Date:	03/12/2021

Material Description:	Recycled 6F2	Date Tested:	02/12/2021
Test Location:	Plt CBR 3 - Tank	Supplier/Source:	Site Won
Weather:	Sunny/Dry		

[illegible]

Depth of Test	Surface	
Distance From Edge of Plate to Wall of Excavation	N/A	mm
Reaction Load	Bomag Roller	
Bearing Pressure @ 1.25mm Settlement	128.5	kN/m ²
Modulus of Subgrade Reaction K762	64.7	kN/m ² /mm
Maximum Applied Pressure	207.2	kN/m ²
Maximum Settlement	2.33	mm
Plate Correction Factor	0.6291	-

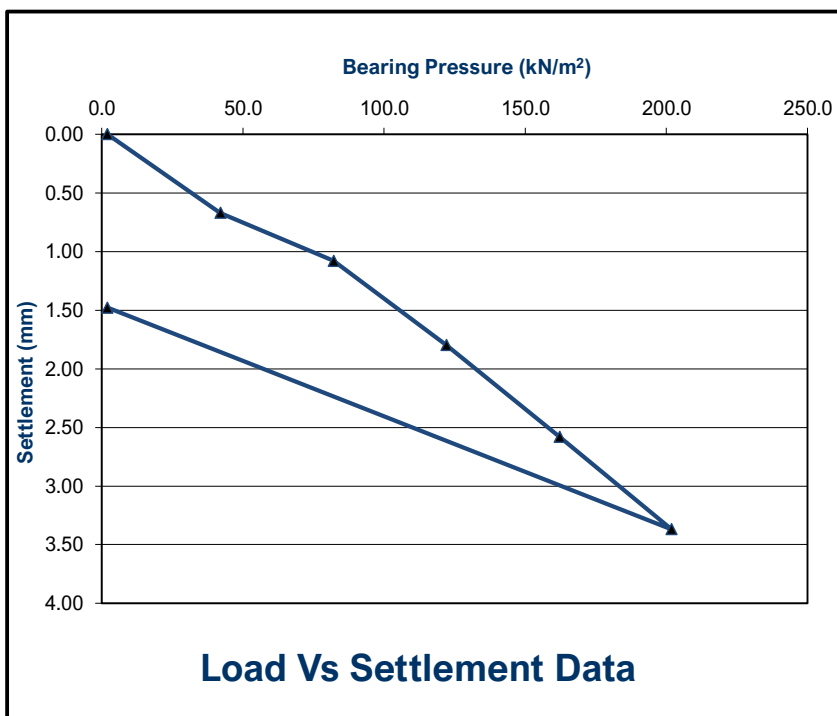
Plate Diameter	455mm	Approved Signatory  L Williams - Director
Moisture Content* (%)	Not Taken	
BS1377: Part 2: 1990 Clause 3.2		
<u>Equivalent CBR Value (%)</u> 13		

Client Details	Opinions and Interpretations are outside of the scope of the UKAS Accreditation
ADM Regeneration Ltd	This report may not be reproduced without the prior written approval of the issuing laboratory
Theatre Buildings	
Carrington Business Park	The stated result only relates to the location tested / Test location was supplied by client
Manchester Rd	All sampling falls outside our scope of UKAS accreditation
Carrington	
M31 4DD	
	QSF-114 Revision 8 - 12.08.2022

Laboratory Test Report

Plate Loading Test to Determine Equivalent CBR Value	Report No:	SR/262	C0096/3
<i>BS1377: Part 9: 1990 Clause 4.1</i> <i>IAN 73/06 Revision 1: 2009(withdrawn)</i>		Report Date:	04/12/2021

Material Description:	Recycled 6F2	Date Tested:	06/12/2021
Test Location:	Plt CBR 4 - Topside	Supplier/Source:	Site Won
Weather:	Showery		

[illegible]

Depth of Test	Surface	
Distance From Edge of Plate to Wall of Excavation	N/A	mm
Reaction Load	25ton 360 Exc	
Bearing Pressure @ 1.25mm Settlement	90.2	kN/m²
Modulus of Subgrade Reaction K762	58.9	kN/m²/mm
Maximum Applied Pressure	201.9	kN/m²
Maximum Settlement	3.37	mm
Plate Correction Factor	0.8165	-

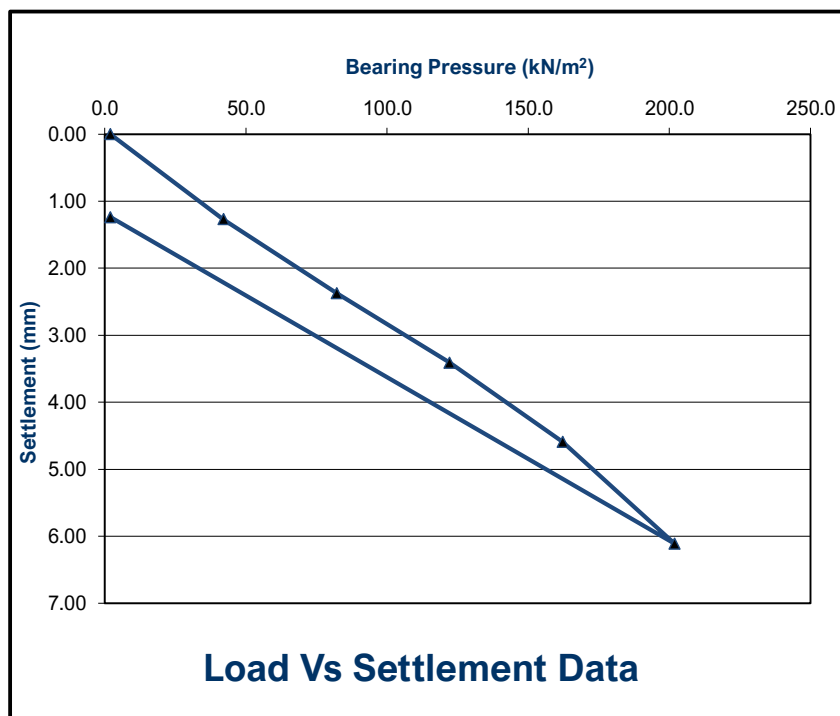
Plate Diameter	610mm	Approved Signatory  L Williams - Director
Moisture Content* (%)	Not Taken	
BS1377: Part 2: 1990 Clause 3.2		
<u>Equivalent CBR Value (%)</u> 11		

Client Details	Opinions and Interpretations are outside of the scope of the UKAS Accreditation
ADM Regeneration Ltd	This report may not be reproduced without the prior written approval of the issuing laboratory
Theatre Buildings	The stated result only relates to the location tested / Test location was supplied by client
Carrington Business Park	All sampling falls outside our scope of UKAS accreditation
Manchester Rd	
Carrington	
M31 4DD	QSF-114 Revision 8 - 12.08.2022

Laboratory Test Report

Plate Loading Test to Determine Equivalent CBR Value	Report No:	SR/262	C0096/3
<i>BS1377: Part 9: 1990 Clause 4.1</i> <i>IAN 73/06 Revision 1: 2009(withdrawn)</i>		Report Date:	04/12/2021

Material Description:	Recycled 6F2	Date Tested:	06/12/2021
Test Location:	Plt CBR 5 - Topside	Supplier/Source:	Site Won
Weather:	Showery		

[illegible]

Depth of Test	Surface	
Distance From Edge of Plate to Wall of Excavation	N/A	mm
Reaction Load	25ton 360 Exc	
Bearing Pressure @ 1.25mm Settlement	40.4	kN/m²
Modulus of Subgrade Reaction K762	26.4	kN/m²/mm
Maximum Applied Pressure	201.9	kN/m²
Maximum Settlement	6.11	mm
Plate Correction Factor	0.8165	-

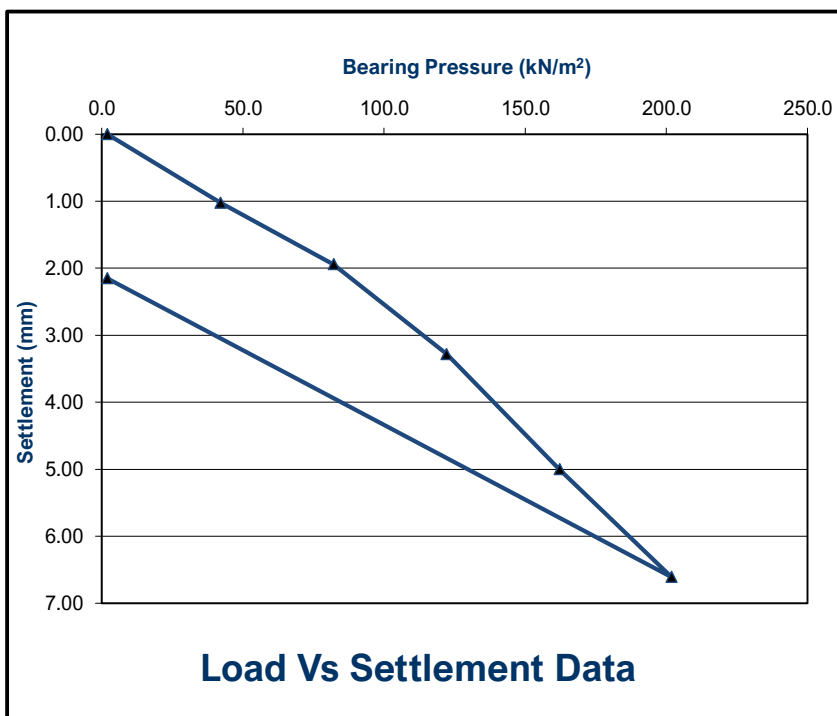
Plate Diameter	610mm	Approved Signatory  L Williams - Director
Moisture Content* (%)	Not Taken	
BS1377: Part 2: 1990 Clause 3.2		
<u>Equivalent CBR Value (%)</u> 2.8		

Client Details	Opinions and Interpretations are outside of the scope of the UKAS Accreditation
ADM Regeneration Ltd	This report may not be reproduced without the prior written approval of the issuing laboratory
Theatre Buildings	The stated result only relates to the location tested / Test location was supplied by client
Carrington Business Park	All sampling falls outside our scope of UKAS accreditation
Manchester Rd	
Carrington	
M31 4DD	QSF-114 Revision 8 - 12.08.2022

Laboratory Test Report

Plate Loading Test to Determine Equivalent CBR Value	Report No:	SR/262	C0096/3
<i>BS1377: Part 9: 1990 Clause 4.1</i> <i>IAN 73/06 Revision 1: 2009(withdrawn)</i>		Report Date:	04/12/2021

Material Description:	Recycled 6F2	Date Tested:	06/12/2021
Test Location:	Plt CBR 6 - Topside	Supplier/Source:	Site Won
Weather:	Showery		

[illegible]

Depth of Test	Surface	
Distance From Edge of Plate to Wall of Excavation	N/A	mm
Reaction Load	25ton 360 Exc	
Bearing Pressure @ 1.25mm Settlement	50.7	kN/m²
Modulus of Subgrade Reaction K762	33.1	kN/m²/mm
Maximum Applied Pressure	201.9	kN/m²
Maximum Settlement	6.61	mm
Plate Correction Factor	0.8165	-

Plate Diameter	610mm	Approved Signatory  L Williams - Director
Moisture Content* (%)	Not Taken	
BS1377: Part 2: 1990 Clause 3.2		
<u>Equivalent CBR Value (%)</u> 4.2		

Client Details	Opinions and Interpretations are outside of the scope of the UKAS Accreditation
ADM Regeneration Ltd	This report may not be reproduced without the prior written approval of the issuing laboratory
Theatre Buildings	
Carrington Business Park	The stated result only relates to the location tested / Test location was supplied by client
Manchester Rd	All sampling falls outside our scope of UKAS accreditation
Carrington	
M31 4DD	
	QSF-114 Revision 8 - 12.08.2022

APPENDIX VII CONTRACTOR COMPLETION CHECK SHEET

GEOTECHNICAL ENABLING WORKS COMPLETION FORM

Upon completion of all site remediation and enabling works, this form will be completed by E3P, in the presence of the appointed contractor, to ensure that all pertinent geotechnical enabling works activities are complete or, where a deviation from the specification has occurred, all future limitations and issues are documented for the client's records.

Activity	Complete			Signature
	Yes	No	N/A	(initial)
Eradication of all invasive plant species				
Removal of all vegetation				
Removal of all root bulbs and root networks				
Stockpiling of topsoil and certification of suitability for reuse				
Stockpiling of subsoil and certification of suitability for reuse				
Stockpile all recycled aggregate with geotechnical and chemical validation testing				
Removal of all relict foundations and infrastructure in their entirety				
Decommission of all redundant drainage infrastructure				
Decommission of all former interceptors				
Decommission of all former above- and below-ground tanks				
Removal of all waste materials to a licensed facility				
Removal of all asbestos to a licensed facility				
Engineering of all plots for shallow spread foundation in accordance with E3P Geotechnical Specification				
Engineering of all plots for VSC in accordance with E3P Geotechnical Specification				
Engineering of all plots for pile foundation in accordance with E3P Geotechnical Specification				
Engineering of all plots for raft foundation in accordance with E3P Geotechnical Specification				
Engineering of highways bulk upfill in accordance with E3P Specification with compliant validation testing				
Engineering of highways subgrade in accordance with E3P Specification with compliant validation testing				
Engineering of highways capping in accordance with E3P Specification with compliant validation testing				
Cut-and-fill the development site to client's required elevation with as-built survey				



POST-REMEDIATION AND ENABLING LIMITATIONS

All and every deviation from the approved specification for works should be documented by the remediation and enabling works contractor below.



