

DRAINAGE STRATEGY

Project No. : 225/011

Project Title : Modular Building (CEB Replacement), BAE Systems, Samlesbury.

Client : BAE Systems

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for and on behalf of

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Revision : E

Date : 6 August 2026

Revision History

Rev. 0 – First Draft Issue – 03/10/25

Rev. A – Issued for planning application submission – 17/10/25

Rev. B – Updates following receipt of GI Report + further design work completed – 17/11/25

Rev. C – Updates following receipt of consultee responses from LLFA and UU – 11/02/26

- Section 2 – Planning Application Consultee Responses added.
- Sections 5.1 and 5.3 updated.
- Appendix G – Existing site drawing added with SW drainage outfall route and location and proposed drainage layout drawing updated.

Rev. D – Updates following receipt of planning decision notice with conditions – 14/05/26

- Sections 2.1, 2.2 and 2.3 added regarding the planning permission notice.
- Section 5.3 updated in respect to catchment areas.
- Appendices F & G updated.

Rev. E – Updates following receipt of LLFA comments on revision D as part of submission to discharge planning decision notice condition number 7 – 14/05/26

- Section 2 updated and Section 2.4 added regarding further LLFA comments.
- Section 5.3 updated in respect to 5mm run-off events.
- Section 6 – Surface Water Quality Risk Assessment added.
- Appendices F & G updated.

Sleater & Watson LLP has prepared this document for the above named Client in accordance with our appointment and standard terms of business. This information along with any supporting information referenced may not be relied upon by any other party without the prior written agreement of Sleater & Watson LLP.

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DRAINAGE STRATEGY

1. Introduction

Sleater & Watson (S&W) have been commissioned by Wilson Mason Architects on behalf of BAE Systems to support them with their planning application for the Modular Office Building (CEB Replacement) at their Samlesbury site and in particular in respect to the below ground drainage.

The proposals for the scheme are detailed upon Wilson Mason Architects relevant site layout drawings.

Sleater & Watson have been engaged to provide a foul and surface water drainage strategy for the proposed development.

2. Planning Application Consultee Responses

Following initial preparation of the Drainage Strategy and subsequent revisions 0, A and B, Consultee responses have been received from the Lead Local Flood Authority (LLFA) and United Utilities (UU) through the planning application process and submission to discharge planning permission decision notice condition number 7.

LLFA's Initial Response

The LLFA's initial response dated 9 December 2025 objects to the application in summary due to;

- Inadequate run-off destination, and,
- Failure to manage everyday rainfall.

The inadequate run-off destination is highlighted due to a lack evidence demonstrating compliance with the priority hierarchy of run-off destinations.

Section 5.1 of this Drainage Strategy addresses this objection.

The failure to demonstrate that the proposed development provides adequate measures to manage run-off from everyday rainfall events is highlighted.

The original scheme failed to address this and iterations of the scheme attempted to incorporate a suitable SuDS approach to intercept the first 5mm run-off and ensure no discharge occurs from these rainfall events. Further comments received from the LLFA questioned the validity of this due to the impermeable soil strata. This has now further been addressed within Section 2.4

UU's Response

UU's response dated 9 December 2025 requested a detailed drainage plan showing the final discharge point and evidence to demonstrate that the Surface Water Drainage Hierarchy has been fully investigated prior to determination of the planning application.

Section 5.1 of this Drainage Strategy demonstrates that the Surface water Drainage Hierarchy has been investigated.

Sections 3 and 5.1 and Appendix G of this Drainage Strategy provide details of the final discharge point of the surface water drainage, this being into Huntley Brook on the South-West boundary of site.

2.1 Planning Permission

2.2 The planning permission decision notice from Ribble Valley Borough Council is referenced 3/2025/0852 dated 1 April 2026. Condition 7 of this decision notice is pertinent to the final surface water sustainable drainage strategy.

2.3 The final surface water sustainable drainage strategy is largely as per the strategy submitted as part of the planning application and as agreed by the LLFA and UU, with the following updates;

- a. Minor updates have been to the calculations following confirmation of the catchment areas, both on and off site. Additional drawings are provided to demonstrate this.
- b. Calculations have been updated to allow for a surcharged outfall (25mm depth).
- c. The attenuation tank volume has been nominally increased accordingly.
- d. Drainage layout drawings have been updated to provide more detail.
- e. Additional drawings are provided to detail the SuDS features.

2.4 LLFA's Further Response

The LLFA's further response dated 17 June 2026 cannot recommend the discharge of condition 7 due to;

- Failure to apply a 40% climate change allowance to the 1 in 30 year event.

This climate change allowance has now been applied to the revised calculations; refer to Appendix F.

- Failure to provide evidence to support the proposal that approximately 20m³ of surface water to account for measures to manage the first 5mm of rainfall can be incorporated within the proposed attenuation tank.

Owing to the demonstrated impermeable below ground conditions and the physical constraints of the development, it is not reasonably practicable to provide a separate interception storage volume equivalent to the first 5 mm of rainfall for the full development area without materially affecting the viability or layout of the approved development. It is therefore requested that the maximum practical interception storage volume of approximately 5m³ within the proposed swales / rain gardens provided is accepted.

- Failure to provide drainage calculations with appropriate coefficients and parameters, namely, Run-Off Coefficients, Maximum Rainfall and MADD Factor.

The appropriate coefficients and parameters have now been applied to the revised calculations; refer to Appendix F, namely;

- **Run-Off Coefficients** – All set to '1' for impermeable areas.
- **Maximum Rainfall** – Set to 999mm/hour so as not to cap the maximum rainfall intensity entering the system.
- **MADD Factor** – Set to '0' to discount additional storage within the development.

- Failure to provide evidence of measures to manage the quality of the surface water runoff to prevent pollution and protect groundwater and surface water bodies. The strategy shall include a robust water quality risk assessment, proportionate to the pollution hazard and sensitivity of receiving waters, and shall inform the design of an appropriate SuDS management train.

Refer to Section 6 – Surface Water Quality Risk Assessment

3. Existing Site Circumstances

The site is located within BAE Systems Samlesbury site to the South of Myerscough Smithy Road (A59) and was formerly developed as the site of a modular building and associated external hardstandings. The wider surrounding area is also hardstanding for car parking and adjacent workshop and factory buildings.

The topography of the site slopes locally in a South-West direction. Refer to Survey Operations topographical survey within Appendix A.

There is existing foul water and surface water on site with connections local to the proposed works. The surface water drainage comprises of two separate systems, one heading South-West and the other heading South-East around either side of the adjacent 4 Shed Building. The existing foul water is located in the East side of the site. Refer to Survey Operations GPR survey within Appendix B.

From BAE Systems mapping information, it appears the foul water drainage heads through site in a Southerly direction to a foul water pumping station in the South-West part of site. From here it is pumped off-site in the direction of the Western boundary. The surface water heads through site in a Southerly direction, ultimately discharging into Huntley Brook on the South-West boundary of site. Refer to BAE Systems mapping information within Appendix C.

4. Site Investigations and Information

The site has been subject to intrusive ground investigations by Geotechnical Engineers, Sub Surface refer to Appendix D. The site is generally underlain by made ground over clay soils. Falling head permeability tests have been undertaken in two boreholes at a depth of 2.0m below existing ground level. These tests indicated that water levels fell insufficiently to determine the soil permeability and therefore it is anticipated that poor soil infiltration rates will be encountered.

The existing below ground drainage has been CCTV surveyed to determine the condition and verify drainage routes – refer to Underground Surveys CCTV survey within Appendix E.

The existing site is traversed by a number of below ground services, some of which will be diverted or grubbed-up as part of the scheme. However, there are services to remain and specifically a series of electrical services including HV cables, and data services, along with their associated access chambers that need to remain and be unaffected by the works. It is unlikely that crossover of these services will be permitted. Refer to Survey Operations GPR survey within Appendix B.

5. Drainage Strategy

5.1 Surface Water Drainage

In respect to the surface water drainage, Sleater & Watson would generally follow good practice and guidance outlined within National Planning Policy Framework, DEFRA Non-Statutory Technical

Standards for Sustainable Drainage Systems (March 2015) and the Building Regulations Approved Document H.

Building Regulations Approved Document H requires rainwater from the site to be discharged via one of the following receptors, listed in order of priority;

1. An adequate soakaway or other infiltration system; or where not reasonably practicable;
2. A watercourse; or where that is not reasonably practicable;
3. A public sewer.

Due to the poor soil infiltration rates expected due to the clay stratum below site, it is anticipated that it will not be feasible to include provide a suitably sized soakaway on site, and this option has been dismissed on this basis.

However, in agreement with the LLFA's comments and in accordance with Standard 2 of the National Standards for Sustainable Drainage Systems (SuDS), the requirement to provide adequate measures to manage run-off from everyday rainfall events with zero discharge for the 5mm run-off event is considered.

There is no nearby watercourse to the development, although, as per the details noted within the 'Existing Site Circumstances' section, the site wide surface water drainage system ultimately discharges into Huntley Brook to the South-West boundary.

Therefore, it is proposed that the surface water run-off from the development will be collected, attenuated and discharged to the wider site drainage network at a reduced discharge rate than exists, in order to create a betterment, with it ultimately discharging into Huntley Brook at the South-West boundary.

The discharge rate is to be assessed against the existing circumstances in order to confirm what rate can be achieved, in conjunction with existing site infrastructure restrictions, and the level of betterment confirmed.

5.2 Foul Water Drainage

An existing foul water sewer is present in the East side of the site. It is therefore proposed to utilise this connection, the invert levels of which may require the introduction of a pump.

5.3 Design Assessment

The following summary reports the findings of a design assessment of the surface water discharge for the site.

The area of the proposed planning development boundary totals approximately 6152m² and is largely impermeable. The previously developed area was similarly largely comprising of impermeable surfaces associated with the existing building and hardstandings.

The site has been assessed to determine the most appropriate Sustainable Drainage Strategy, and it has been deemed that this would be to attenuate the surface water run-off from 3881m² of impermeable areas, this comprising of 3852m² area within the planning boundary plus 29m² area from outside the boundary (refer to drawing no. CEB-SAW-XX-00-52-DR-C-5212-S0-P1) and discharge to

the existing on site sewer at an agreed restricted rate to create an overall betterment. For the remaining 2114m² of impermeable areas, the surface water run-off would be directed to the existing SW drainage collection points, these mainly being on the 'West', 'South' and 'East' sides of the proposed building where existing ground finishes will not be altered and / or there is extensive existing site infrastructure (below ground electrical and data services) that cannot be disturbed thus preventing re-routing of SW drainage to the proposed SW drainage system. Due to this there will be areas of unrestricted run-off to the existing drainage networks.

In accordance with Standard 2 of the National Standards for Sustainable Drainage Systems (SuDS), the requirement to provide adequate measures to manage run-off from everyday rainfall events with zero discharge for the 5mm run-off event is considered. The existing site infrastructure, density of the development and impermeable soil strata prevents this from being practically applied to the development boundary. Of the catchment area that is captured by SuDS, approximately 90% of the overall area – 3881m².

For the 5mm run-off event, the zero discharge volume is as follows;

$$\text{Zero Discharge Volume} = 3881 \times 0.005 = 19.1\text{m}^3$$

It is proposed to provide some areas of swales / rain gardens and the volumes provided are shown on the proposed drainage layout and are summarised as follows;

- North swale / rain garden = 1.0m³
- West swale / rain garden = 4.0m³
- Total = 5.0m³ < 19.1m³ ∴ NOT OK

Owing to the demonstrated impermeable below ground conditions and the physical constraints of the development, it is not reasonably practicable to provide a separate interception storage volume equivalent to the first 5 mm of rainfall for the full development area without materially affecting the viability or layout of the approved development. It is therefore requested that the maximum practical interception storage volume of approximately 5m³ within the proposed swales / rain gardens provided is accepted.

A restricted discharge rate is proposed as 11.8l/s and is not to be exceeded for the 1 in 1, 1 in 30-year and 1 in 100-year + 50% climate change storm events. A surcharged outfall is included at 25mm above the invert level of the final manhole at the development boundary, this level assumes the next receiving manhole downstream is surcharged.

Surface water drainage modelling has been undertaken for the proposed drainage system utilising Causeway Flow design software. Output calculations are included as a following appendix and shows that the surface water is managed, and surface flooding avoided for all storm events. Refer to Appendix F.

The existing site layout with the SW drainage outfall route and location and proposed drainage layout for both the foul and surface water are shown on the drawings no.;

CEB-SAW-XX-00-52-DR-C-5210-S0-P1 – EXISTING SITE LAYOUT

CEB-SAW-XX-00-52-DR-C-5201-S0-P6 - PROPOSED DRAINAGE LAYOUT

Supplementary drawings are provided for the catchment areas, SW flood exceedance routes, boundary run-off assessment and drainage details, as per drawings no.

CEB-SAW-XX-00-52-DR-C-5211-S0-P1 – EXISTING DRAINAGE TO BE REMOVED

CEB-SAW-XX-00-52-DR-C-5212-S0-P1 – PERMEABLE & IMPERMEABLE AREAS

CEB-SAW-XX-00-52-DR-C-5213-S0-P1 – SW EXCEEDANCE FLOW ROUTES

CEB-SAW-XX-00-52-DR-C-5214-S0-P1 – DEVELOPMENT BOUNDARY RUN-OFF

CEB-SAW-XX-00-52-DR-C-5220-S0-P1 – DRAINAGE DETAILS – SHEET 1

CEB-SAW-XX-00-52-DR-C-5221-S0-P1 – DRAINAGE DETAILS – SHEET 2

CEB-SAW-XX-00-52-DR-C-5222-S0-P2 – SuDS DETAILS

Refer to Appendix G.

6. Surface Water Quality Risk Assessment

A surface water quality risk assessment has been undertaken in accordance with Chapter 26 of the CIRIA SuDS Manual C753, using the Simple Index Approach.

The proposed development comprises of an office building with associated pedestrian paved areas and a staff car park.

In accordance with the pollution hazard classifications within CIRIA SuDS Manual C753, run-off from the office roof and the low-turnover office car park is classified as presenting a low pollution hazard.

Run-off from the roof is considered to present a low pollution risk because the building has no roof-mounted plant or pollutant-generating roof activities. Accessible sump manholes will provide pre-treatment through interception of leaves, debris and sediment before runoff enters the downstream drainage system.

Runoff from the pedestrian paved areas will initially pass through gullies and sump manholes providing pre-treatment, which will intercept debris and sediment before the run-off enters the downstream drainage system.

Runoff from the car park areas will initially discharge to a vegetated swale before entering the downstream attenuation and drainage system. The swale will reduce flow velocities, promote settlement of suspended material and provide filtration and biological treatment of residual pollutants, including metals and hydrocarbons.

The attenuation tank has not been relied upon as the principal water-quality treatment component.

The CIRIA Simple Index Assessment, as follows in Tables 6.1 and 6.2, confirms that the combined mitigation indices of the proposed management train meet or exceed the relevant pollution hazard indices for total suspended solids, metals and hydrocarbons.

Land Use	Pollution Hazard Level	Total Suspended Solids	Metals	Hydrocarbons
Non-Residential Car Park with Infrequent Change (i.e., Office)	Low	0.5	0.4	0.4

Table 6.1 – Pollution hazard indices by land use

Type of SuDS Component	Mitigation Indices		
	Total Suspended Solids	Metals	Hydrocarbons
Swale	0.5	0.6	0.6

Table 6.2 – SuDS mitigation indices for discharge to surface waters

The proposed SuDS management train is proportionate to the low pollution hazard associated with the office development and will protect the receiving surface water drainage system and downstream water bodies.

Appendix A

Survey Operations Topographical Survey

SURVEY STATIONS			
Name	Existing	Northings	Height
MP1	362554.32	431483.94	74.32
S12	362314.27	431482.24	73.84
S01	362281.01	431461.20	73.53
P1	362556.14	431467.28	74.30
P2	362358.41	431440.83	74.53
P3	362401.19	431398.65	73.62

Cell	Current Value	Cell	Current Value
A1	1	A1	1
B1	2	B1	2
C1	3	C1	3
D1	4	D1	4
E1	5	E1	5
F1	6	F1	6
G1	7	G1	7
H1	8	H1	8
I1	9	I1	9
J1	10	J1	10
K1	11	K1	11
L1	12	L1	12
M1	13	M1	13
N1	14	N1	14
O1	15	O1	15
P1	16	P1	16
Q1	17	Q1	17
R1	18	R1	18
S1	19	S1	19
T1	20	T1	20
U1	21	U1	21
V1	22	V1	22
W1	23	W1	23
X1	24	X1	24
Y1	25	Y1	25
Z1	26	Z1	26
AA1	27	AA1	27
AB1	28	AB1	28
AC1	29	AC1	29
AD1	30	AD1	30
AE1	31	AE1	31
AF1	32	AF1	32
AG1	33	AG1	33
AH1	34	AH1	34
AI1	35	AI1	35
AJ1	36	AJ1	36
AK1	37	AK1	37
AL1	38	AL1	38
AM1	39	AM1	39
AN1	40	AN1	40
AO1	41	AO1	41
AP1	42	AP1	42
AQ1	43	AQ1	43
AR1	44	AR1	44
AS1	45	AS1	45
AT1	46	AT1	46
AU1	47	AU1	47
AV1	48	AV1	48
AW1	49	AW1	49
AX1	50	AX1	50
AY1	51	AY1	51
AZ1	52	AZ1	52
BA1	53	BA1	53
BB1	54	BB1	54
BC1	55	BC1	55
BD1	56	BD1	56
BE1	57	BE1	57
BF1	58	BF1	58
BG1	59	BG1	59
BH1	60	BH1	60
BI1	61	BI1	61
BJ1	62	BJ1	62
BK1	63	BK1	63
BL1	64	BL1	64
BM1	65	BM1	65
BN1	66	BN1	66
BO1	67	BO1	67
BP1	68	BP1	68
BQ1	69	BQ1	69
BR1	70	BR1	70
BS1	71	BS1	71
BT1	72	BT1	72
BU1	73	BU1	73
BV1	74	BV1	74
BW1	75	BW1	75
BX1	76	BX1	76
BY1	77	BY1	77
BZ1	78	BZ1	78
CA1	79	CA1	79
CB1	80	CB1	80
CC1	81	CC1	81
CD1	82	CD1	82
CE1	83	CE1	83
CF1	84	CF1	84
CG1	85	CG1	85
CH1	86	CH1	86
CI1	87	CI1	87
CJ1	88	CJ1	88
CK1	89	CK1	89
CL1	90	CL1	90
CM1	91	CM1	91
CN1	92	CN1	92
CO1	93	CO1	93
CP1	94	CP1	94
CQ1	95	CQ1	95
CR1	96	CR1	96
CS1	97	CS1	97
CT1	98	CT1	98
CU1	99	CU1	99
CV1	100	CV1	100
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CX1	102	CX1	102
CY1	103	CY1	103
CZ1	104	CZ1	104
DA1	105	DA1	105

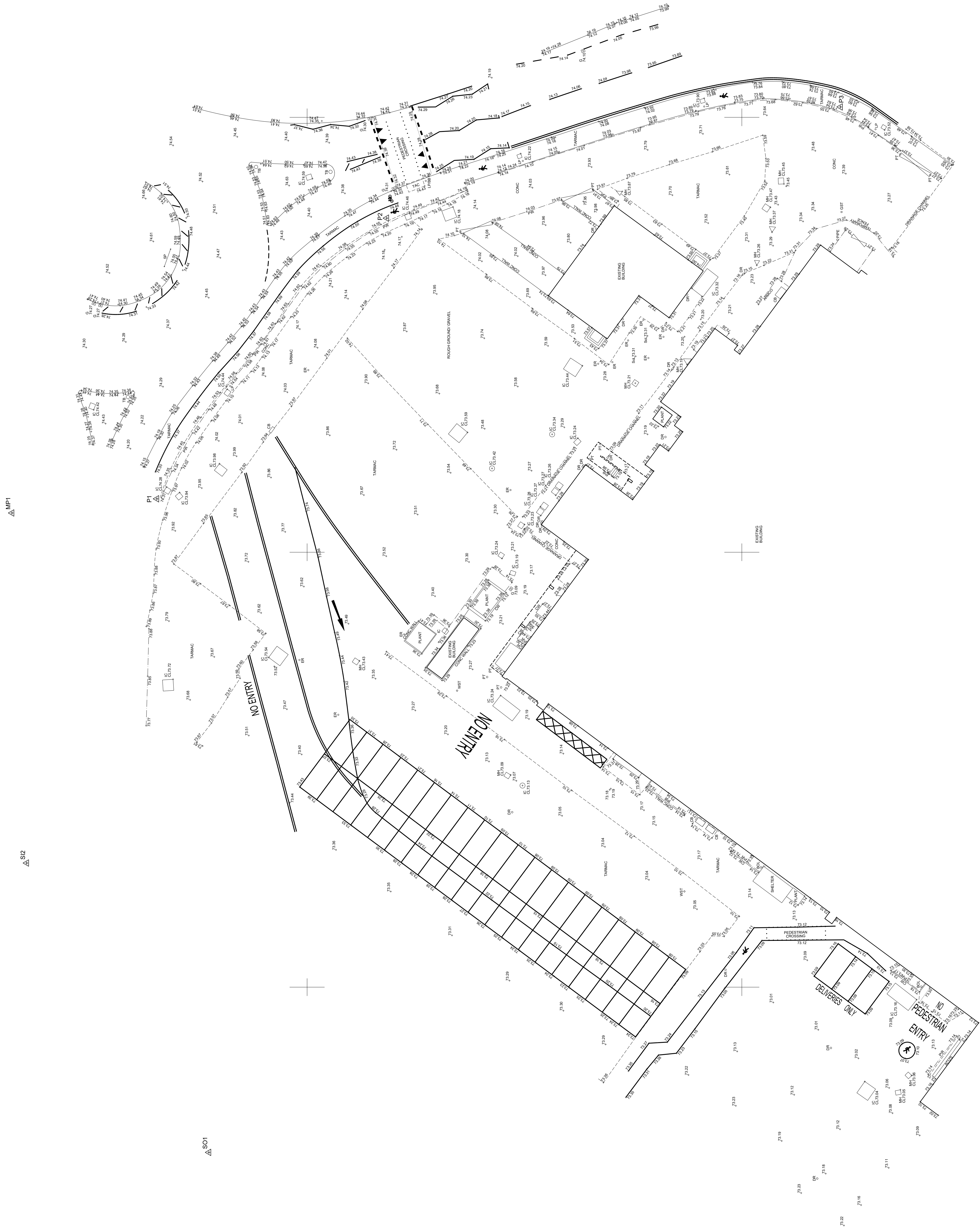


Client
Wilson Mason and Partners

Drawing Title
Topographical Survey of Land at:
BAE Samlesbury Modular Office
Samlesbury

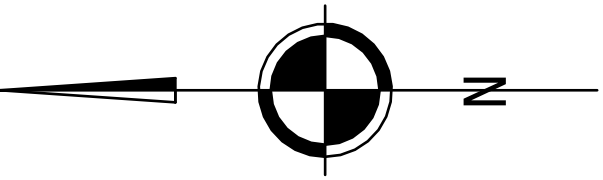
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Sheet Size & Dwg Number & Revision
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Appendix B

Survey Operations GPR Survey



Note:
Orientation to existing site grid.
All levels relate to Existing Site Datum.
Survey Control Markers established for
Mapping purposes only and should not be
used for Construction without the written
approval of Survey Operations Ltd.
Drainage information must be verified
with local authority records before use
Area surveyed July 2025 and added to
information taken from Survey Operations
drawing 250079.

SURVEY STATIONS	
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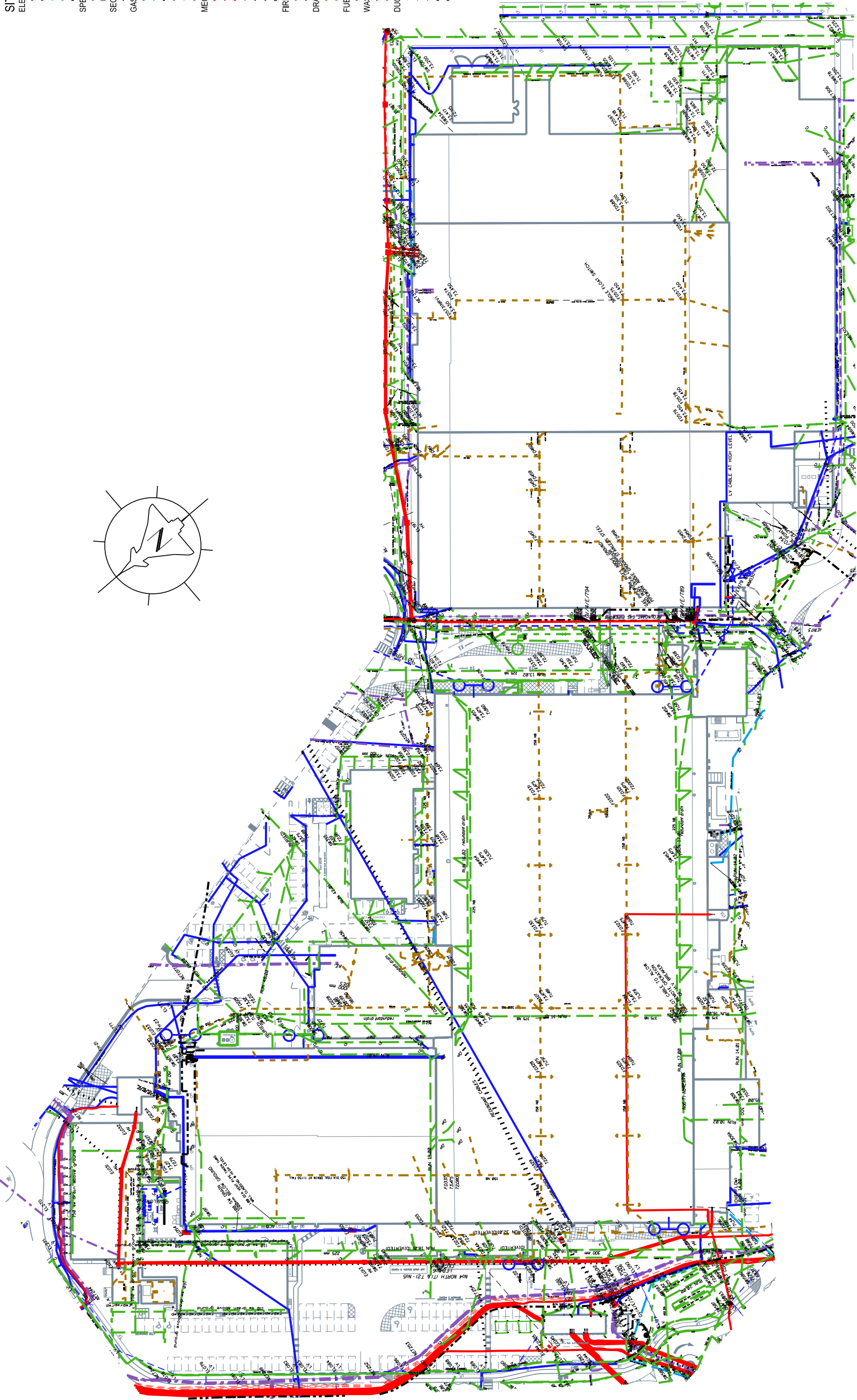
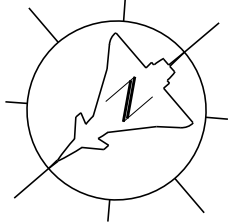
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Appendix C

BAE Systems Service Drawing

SITE UTILITIES LEGEND

- ELECTRICS
- HV CABLE 6.6kV
 - LV CABLE
 - DC POWER CABLE
 - AIRFIELD LIGHTING CABLE
 - REDUNDANT CABLE
- NETWORKS
- CRITICAL NETWORKS
- SECURITY
- SECURITY CAMERA CABLES
- GAS SERVICES
- COMPRESSED AIR
 - VACUUM
 - NATURAL GAS MAIN
 - NITROGEN
 - ARGON
 - OXYGEN
- MECHANICAL SERVICES
- STEAM MAIN
 - CONDENSATE MAIN
 - HIGH PRESSURE HOT WATER PIPES
 - HYDRAULIC PIPEWORK
 - MAINS COLD WATER
 - PROCESS WATER
 - DE-IONISED WATER
- FIRE PROTECTION
- SPRINKLER MAIN
 - FIRE HYDRANT MAIN
- DRAINAGE
- FOUL WATER DRAINAGE
 - SURFACE WATER DRAINAGE
- FUEL
- FUEL LINE AIRCRAFT / VEHICLE
- WASTE
- WASTE CHEMICAL
 - WASTE EFFLUENT TREATMENT
- DUCTS
- GENERAL PURPOSE DUCT
 - LV ELECTRICAL DUCT
 - REDUNDANT DUCTS & PIPES
 - UNIDENTIFIED CABLE AND LINEWORK
 - UNIDENTIFIED PIPE



ZONE 004 EXTERNAL SERVICE DRAWING

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Infrastructure and Facilities Services - Air
This drawing contains information,
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at the date of printing only, - 04/06/2024

Record Type	Classification
ZONE UTILITIES AND SERVICES	OTHER/AQ-HOC
Title	
EXTERNAL SERVICE DRAWINGS	

Record Owner
ENGINEERING GOVERNANCE

Designer	Date Reviewed	Next Review Date
S PRESTON	26/07/2018	26/07/2021

Scale	Zone Number	Sheet #
1:700 @ A1 millimetres UNITS	ZONE004	016

Drawing Reference	Rev.
SAM-004-ZZ-DR-016	N/A

Infrastructure and Facilities Services - Air
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Samlesbury Site
Company Marking
BAE SYSTEMS PROPRIETARY
Government Marking

NOT APPLICABLE

Appendix D
Sub Surface GI Report



INVESTIGATE



REMEDiate



REGENERATE



GROUND INVESTIGATION REPORT

**FOR
NEW MODULAR OFFICES,
FORMER 420 BUILDING,
BAE SYSTEMS,
SAMLESBURY AERODROME,
BB2 7LF**

**PREPARED FOR
T. CLARKE CONTACTING LTD**

**REPORT NO. 8216A
NOVEMBER 2025**

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In-situ Test results
 Groundwater Monitoring Results
 Laboratory Test results
 Contamination Analysis results
 Borehole Record sheets
 Waste Classification Sheets
 Figures



GROUND INVESTIGATION FOR NEW MODULAR OFFICES, FORMER 420 BUILDING, BAE SYSTEMS, SAMLESBURY AERODROME, BB2 7LF

CLIENT: T CLARKE CONTRACTING LTD

ENGINEER: SLEATER & WATSON LLP

ARCHITECT: WILSON MASON LLP

1 INTRODUCTION

This report has been prepared in accordance with Purchase Order No.S14F097/0001, dated 3rd September 2025, from the Client.

The brief was set out in our estimate, ref. E8015 and dated 22nd August 2025, with amendments as the investigation proceeded and includes:

- 6 No. cable percussive boreholes
- In-situ testing
- Geotechnical laboratory testing
- Contamination analyses
- Installation of standpipes followed by groundwater monitoring
- Provision of an interpretative report on the above.

It should be noted that we have previously issued a Phase I Desk Study Report for this site, ref. 8216A and dated August 2025, which should be read in conjunction with this Phase II Ground Investigation Report.

1.1 Site Location and Description

The site is located at the former 420 Building at Samlesbury Aerodrome off Myerscough Smithy Road in Blackburn, as indicated on Figures 1 and 2. The approximate National Grid Reference of the centre of the site is 362324E, 431432N.

As shown on Figures 2 and 3, the about 0.64 hectare, roughly L-shaped site is located in the centre of Samlesbury Aerodrome. The site is bounded to the south by the 401 Building, to the southeast by an electricity substation, to the northeast by a roundabout, to the north and northwest by a road and to the southwest by an access road leading to a car park.

The northwest of the site is currently used as a car park, and in the southeast is infrastructure associated with the 401 Building. The remainder of the site is a disused area where the 420 Building was previously located.

1.2 Proposed Development and Purpose of the Ground Investigation

We understand that it is proposed to construct a 3 to 4 storey modular office building as depicted on Figure 4.



The intrusive investigation was undertaken in general accordance with BS5930:2015+A1:2020 ^[1] and its purpose was to determine the ground conditions at the positions of the exploratory holes, to assess the likelihood of a general pattern of strata being present below the site and to establish their load bearing characteristics deriving, if possible, an assessment of the suitability of appropriate founding techniques.

A generic quantitative contamination risk assessment has been conducted in general accordance with the Environment Agency's 'Land Contamination Risk Management' guidance ^[2] and British Standard BS10175: 2011+A2:2017 ^[3]. The purpose of the contamination risk assessment is to:

- identify potential risks to construction workers, site end users, and the broader environment.
- to support the discharge of relevant planning conditions and to meet the requirements of the Local Planning Authority.
- to evaluate the need for additional sampling and analysis and determine any necessary precautions and/or remedial measures required for the proposed development.

In addition, a waste assessment was required to determine:

- Whether the soil waste arisings at the site are hazardous.
- The most appropriate landfill type for disposal of the soil waste.
- Whether the soil waste material may be suitable for re-use.

2 INVESTIGATION

2.1 Investigation Details

Six 150mm diameter boreholes were put down by cable percussive boring techniques at the positions determined by the Client's Engineer and set out by Sub Surface North West Limited, as shown on Figure 3. The boreholes were put down to depths of between 15.45m and 20.05m, samples taken were logged in accordance with BS.5930:2015+A1:2020 ^[1] and the resulting Borehole Records are appended.

2.2 Sub Surface Detail

Details of the strata encountered in the ground investigation are given on the appended Borehole Records. A general summary of the strata found is as follows:

2.2.1 Made Ground

Made ground was encountered in all of the boreholes to depths of between 0.35m and 1.20m and comprised mainly bituminous macadam and concrete surfacing over dark grey ashy clayey silty sandy fine to coarse gravel sized fragments of clinker and stone to depths of between 0.35m and 0.60m. In BH4 the granular made ground was underlain to a depth of 1.20m by dark brown slightly ashy slightly gravelly slightly sandy silty clay with the gravel sized component comprising fine to coarse sandstone and clinker.

2.2.2 Superficial Deposits

Natural strata were encountered in all of the exploratory holes at depths of between 0.35m and 1.20m and comprised mainly firm medium strength locally low or very low strength becoming stiff high strength brown slightly gravelly slightly sandy silty clay, with the gravel component comprising subangular to subrounded fine to coarse sandstone and quartz.

2.2.3 Groundwater

No groundwater was encountered in the exploratory holes although it should be noted that they were only left open for a short period of time and groundwater levels and rates of inflow may be subject to seasonal and/ or climatic variations.

Monitoring of standpipes installed in BH1, BH4 and BH6 found groundwater to be at 0.87m to 1.07m. In our opinion the results are indicative of perched superficial groundwater.

3 **SAMPLING, TESTING AND MONITORING**

3.1 **Sampling**

Small disturbed and bulk disturbed samples were obtained for the strata encountered and were subjected to careful examination and hand penetrometer or hand shear vane tests, where appropriate.

Samples taken for contamination analyses were each subsampled into one 1 litre plastic tub, one 250ml glass jar and one 60ml glass vial, and were transported to the testing laboratory in insulated containers to maintain a low temperature.

In the cable percussive boreholes twenty four 100mm diameter undisturbed samples were attempted in cohesive strata, and twenty two were recovered and submitted for testing in the laboratory.

The samples will be retained for a period of one month after the issue of this report, for reference purposes, and then disposed of unless otherwise instructed.

3.2 **Field Testing**

Fifty nine Standard Penetration Tests (SPTs) were performed in the natural cohesive strata, the results of which are recorded on the appended Standard Penetration Test Results Sheet with 'N' values and indicative relative density and shear strength, where appropriate, given on the appended Borehole Records.

Falling head permeability tests were undertaken in BH1 and BH6 at a depth of 2.00m. The 150mm diameter borehole was filled with water to 1.00m depth and the water level was then monitored for a period of 240 minutes. Water levels were found to have fallen insufficiently to determine the "Basic Time Lag" and hence the permeability could not be determined. Details of the falling head permeability tests are appended.

3.3 Installations and Monitoring

On completion of BH1, BH4, and BH6 hdpe standpipes were installed to a depth of 5.00m. The standpipes are slotted from 1.00m depth, have an internal diameter of 50mm and have removable bungs to enable groundwater monitoring and sampling to be undertaken. Details of the installations are given on the appended Borehole Records.

Monitoring of the standpipes for groundwater levels has been undertaken on one occasion to date using portable equipment. The results of the monitoring are given on the appended Groundwater Monitoring Results sheet.

3.4 Laboratory Testing

The following laboratory tests were carried out in accordance with BS.1377: 1990 ^[4], where applicable, and the results are appended.

- Moisture content, plastic limit and liquid limit tests
- Quick undrained triaxial tests
- Oedometer consolidation tests
- Soluble sulphate content and pH value tests

Contamination analyses have been performed on twelve soil samples to determine: pH and concentrations sulphate, sulphide, cyanide, arsenic, boron (soluble), cadmium, chromium, hexavalent chromium, copper, lead, mercury, molybdenum, nickel, selenium, zinc, speciated aliphatic and aromatic total petroleum hydrocarbons (TPH CWG), the speciated polynuclear aromatic hydrocarbons (PAH EPA16) suite, the benzene/ ethylbenzene/ toluene/ xylene (BTEX) suite and phenols. In addition, the soil samples were analysed for soil organic matter content, and were subjected to an asbestos screen. For one sample where asbestos was detected by the screen, asbestos quantification was undertaken.

In addition five soil samples were also analysed for suites of volatile organic compounds (VOCs) and semi-volatile organic compounds (SVOCs), and one sample was analysed for polychlorinated biphenyl congeners (PCB).

Waste Acceptance Criteria (WAC) analysis has also been undertaken on three soil samples.

The results of the above analyses are appended.

4 APPRAISAL AND RECOMMENDATIONS: GEOTECHNICAL

4.1 Comments on the Strata Profile

At the outset it should be appreciated that only a small proportion of the soil mass in the area to be developed has been investigated and consequently the recommendations made and opinions expressed in this report can only be applied to such conditions as were encountered in the exploratory holes.

Due to the site having been previously developed, and the nature of made ground, localised variations in thickness and composition should be anticipated and hence interpolation or extrapolation from the exploratory holes to adjoining areas only be undertaken with caution.

The exploratory holes indicate a nature and degree of similarity to the extent that we consider them likely to be representative of the natural ground conditions. However, no guarantee can be given.

Details of the findings of the investigation are given on the appended Borehole Records and a summary of the ground conditions is given in Section 2.2.

4.2 Foundations

We understand that it is proposed to construct a 3 to 4 storey modular office building on concrete pads (possibly strip footings) with a minimum width of 450mm and with design loads ranging from 40kN to 340kN, generally 175kN around the perimeter, 340kN through the middle, and 72kN intermediated as shown on Figure 6.

The ground investigation found made ground to depths of between 0.35m and 1.20m underlain by mainly firm medium strength locally low or very low strength becoming stiff high strength brown slightly gravelly slightly sandy silty clay, with the gravel component comprising subangular to subrounded fine to coarse sandstone and quartz.

We would not recommend founding in the made ground in its present condition because of its inherent variability in consistency and compaction, and in parts the nature of its constituents.

Atterberg limit tests on the cohesive strata indicate clays of low to high but generally intermediate plasticity which are considered to have a low to medium susceptibility to shrinkage and swelling with varying moisture content. Given the above foundations should be taken down to a minimum 0.90m below finished ground level to avoid the zone which is subject to seasonal moisture content variation and frost action. If buildings are to be constructed adjacent to existing trees, trees are to be removed and/or trees are to be planted then the guidelines given in the National House Building Council (NHBC) Standards Chapter 4.2, 'Building Near Trees', should be followed for clays of medium shrinkage and swelling potential.

It should be noted that in parts of the site the natural strata is at a depth of in excess of 0.90m and in these areas foundations should be taken down to a minimum 0.10m below the base of the made ground unless the NHBC guidelines indicate a greater depth.

Taking the results of the field and laboratory tests we have determined the safe bearing capacity of the natural strata, as follows:

TABLE 1 SAFE BEARING CAPACITY

Expl Hole No.	Depth (m)	SPT 'N' Value	Shear Strength (kN/m ²)	Safe Bearing Pressure (kN/m ²)		Recommended Minimum Foundation Depth (m)
				Strip Footing	Square Pad	
BH1	1.35	9	36	65	80	0.90
	2.15	12	48	90*	105*	
	3.15	-	22	40	50	
BH2	1.35	8	32	60	70	0.90
	2.15	-	75**	140*	170*	
	3.15	9	36	65	80	
BH3	1.35	4	16	30	35	2.00
	2.00	-	61	115	135	
	3.00	-	63**	115*	140*	
	4.15	5	20	35	45	
BH4	1.20	-	133	250*	300*	1.30
	2.15	12	48	90	105	
	3.15	13	52	95	115	
BH5	1.35	4	16	30	35	2.00
	2.15	-	103	195*	230*	
	4.15	6	24	45	50	
BH6	1.20	-	78	145*	175*	0.90
	2.15	15	60	110	135	
	3.0	-	53	100	120	

* Consideration must be given to weaker underlying strata which might be overstressed if loading is not reduced.

** Shear strength determined by hand penetrometer/ shear vane test.

Appreciable variations in safe bearing pressures in the upper strata are indicated in Table 1 with zones of very low and low strength producing low safe bearing pressure and potentially highly to moderately compressible, producing excessive total and differential settlement.

Consequently, in our opinion, the most satisfactory and economic foundation scheme would be a piled foundation transferring the structural loads down to the more competent strata at depth.

With regard to the choice of pile type, consideration could be given to driven piles, continuous flight auger (CFA) piles or cast in-situ bored piles with the driven pile option probably being the most economical. However, in considering piles driven to a pre-determined set in the more competent strata at depth, it is essential to ensure that any vibrations set up during the driving process are not transmitted to adjacent/ nearby buildings, structures, services and/or slopes/ retaining walls as they may be detrimentally affected. Consequently, in respect of driven piles, we recommend that any tendering Specialist Piling Contractor confirm that vibrations will not detrimentally affect adjacent/ nearby buildings, structures, services and/or slopes/ retaining walls. If such confirmation cannot be given, as is likely then we would recommend using either CFA or cast in-situ bored piles.

Care must be taken to space the piles in any group to ensure the adequate utilisation of skin friction where this has been assumed in the calculation of the load bearing capacity of an individual pile. Checks must also be undertaken to confirm that the underlying ground supporting the pile group is not overstressed.

To provide assistance for estimating purposes only, we have undertaken a preliminary pile design calculations for a 15.0m long pile taking into consideration the ground conditions at BH2 and BH4, as follows:

Preliminary Pile Design based on strata in BH2

Bored Cast In-situ or CFA Pile Factor of Safety: 2.5 (shaft), 3.0 (end)
Dia. = 0.30m, Perimeter = 0.94m, Cross Section Area = 0.07m², Length = 15.0m

0.00 to 40m	MADE GROUND	- ignore
0.40 to 5.00m	Low strength CLAY Allowable Shaft Friction Allowable Shaft Friction Load	$\bar{c} = 38 \text{ kN/m}^2$ $= 9.1 \text{ kN/m}^2$ $= \underline{39 \text{ kN}}$
5.00 to 8.00m	Low strength CLAY Allowable Shaft Friction Allowable Shaft Friction Load	$\bar{c} = 16 \text{ kN/m}^2$ $= 3.8 \text{ kN/m}^2$ $= \underline{10 \text{ kN}}$
8.00 to 15.00m	High strength CLAY Allowable Shaft Friction Allowable Shaft Friction Load	$\bar{c} = 102 \text{ kN/m}^2$ $= 28.0 \text{ kN/m}^2$ $= \underline{184 \text{ kN}}$
15.00m	High strength CLAY Allowable End Bearing Allowable End Bearing Load	$c = 120 \text{ kN/m}^2$ $= 360 \text{ kN/m}^2$ $= \underline{25 \text{ kN}}$

Total Allowable Working Load = 39 + 10 + 184 + 25 = 258 kN

Preliminary Pile Design based on strata in BH4

Bored Cast In-situ or CFA Pile Factor of Safety: 2.5 (shaft), 3.0 (end)
Dia. = 0.30m, Perimeter = 0.94m, Cross Section Area = 0.07m², Length = 15.0m

0.00 to 1.20m	MADE GROUND	- ignore
1.20 to 7.00m	Medium strength CLAY Allowable Shaft Friction Allowable Shaft Friction Load	$\bar{c} = 53 \text{ kN/m}^2$ $= 12.7 \text{ kN/m}^2$ $= \underline{69 \text{ kN}}$
7.00 to 15.00m	High strength CLAY Allowable Shaft Friction Allowable Shaft Friction Load	$\bar{c} = 102 \text{ kN/m}^2$ $= 28 \text{ kN/m}^2$ $= 1210 \underline{\text{ kN}}$
15.00m	High strength CLAY Allowable End Bearing Allowable End Bearing Load	$c = 112 \text{ kN/m}^2$ $= 336 \text{ kN/m}^2$ $= \underline{23 \text{ kN}}$

Total Allowable Working Load = 69 + 210 + 23 = 302 kN

In order to use the load carrying capacity attributable to both shaft friction and end bearing, the final design figures should be checked to ensure that the ultimate shaft friction is greater than or equal to the allowable working load, otherwise end bearing only should be used.

To formulate the most satisfactory and economic scheme we recommend that competitive tenders and designs from Specialist Piling Contractors should be sought using the exploratory hole information obtained.

4.3 Floor Slab Construction

With regard to the design and construction of floor slabs we would recommend the removal of any topsoil and/or made ground together with any zones of very low strength clay strata or zones containing organic material, and the level brought up as required using a graded granular hardcore placed and compacted in layers of not greater than 150mm followed by the construction of a concrete ground bearing floor slab.

However if a "super flat" floor slab is required then we would recommend piling this as well as the superstructure.

4.4 Excavations and Groundwater

There should be no particular difficulties in excavating the strata indicated in the exploratory holes utilising an appropriate and suitably sized mechanical excavator.

It is recommended that all excavations to greater than 1.20m depth, or for shallower excavations where groundwater is encountered above this level, are closely supported, especially where man entry is required. Alternatively, where space permits, the excavations might be battered back to an appropriate angle.

When in close proximity to existing buildings, structures, and services it is essential that lateral support and stability is maintained at all times.

The borehole did not encounter groundwater during drilling, although it should be noted that they were only left open for a relatively short period of time and groundwater levels and rates of inflow may be subject to seasonal and/ or climatic variations.

Monitoring of standpipes installed in BH1, BH4 and BH6 found groundwater depths (albeit perched) of 1.07m, 0.87m, and 0.92m.

Falling head permeability tests undertaken at 2.00m in BH1 and BH6 were unable to establish the coefficient of permeability due to static water levels.

4.5 Buried Concrete

For the design of buried concrete the recommendations given in Building Research Establishment (BRE) Special Digest 1 (February 2017 revision), "Concrete in Aggressive Ground" ^[6], should be followed.

Determination of pH on the soil samples gave values in the range of 8.7 to 11.0.

Soluble sulphate concentrations were also determined for the soil samples and the results ranged from 0.04 to 0.46 g/l.

The results indicate that the Design Sulphate Class for the site should be DS-1.

Our knowledge of the site and ground conditions indicates that the site is "brownfield" with potentially mobile groundwater. Consequently, in accordance with the Design Sulphate Class for the site together with the site and groundwater conditions an Aggressive Chemical Environment for Concrete (ACEC) classification of AC-1 should be used as detailed on the appended extract.

5 APPRAISAL & RECOMMENDATIONS: GEOENVIRONMENTAL

5.1 Contamination Risk Assessment

The Environment Agency's Land Contamination Risk Management guidance ^[2] sets out a three tiered approach to risk assessment:

1. Preliminary risk assessment: first tier of risk assessment that develops the initial conceptual site model to establish whether there are any potentially unacceptable risks.
2. Generic quantitative risk assessment: uses generic assessment criteria and assumptions to estimate risk.
3. Detailed quantitative risk assessment: uses detailed site-specific information to estimate risk.

Each tier should establish contaminant sources, assess the hazard using a source-pathway-receptor (S-P-R) linkage approach to find out if there is the potential for unacceptable risk, predict what degree of harm or pollution might result and how likely it is to occur, and evaluate the risk to determine whether the risk is unacceptable.

This report comprises a Tier 2 risk assessment subject to the uncertainties, data gaps and limitations given in 5.1.1 below.

5.1.1 Uncertainties, Data Gaps and Limitations

We have previously undertaken a Phase I Desk Study and Walkover Report (Tier 1 risk assessment), ref. 8216 and dated August 2025 and this Phase II ground investigation has been undertaken to provide an initial generic contamination risk assessment in accordance with the Phase I Conceptual Ground Model. It should be appreciated that the suite of determinants analysed for consists of a range of contaminants identified in the Conceptual Ground Model. However, the absence of any other specific contaminants cannot be guaranteed.

It should be appreciated that only a small proportion of the soil mass has been analysed and consequently the recommendations made and opinions expressed in this report can only be applied to such conditions as were encountered in the exploratory holes.

Due to the site having been previously developed, and the nature of made ground, localised variations in thickness and composition should be anticipated and hence interpolation or extrapolation from the exploratory holes to adjoining areas should only be undertaken with caution.

5.1.2 Preliminary Conceptual Ground Model

Our Phase I Desk Study Report (Tier 1 risk assessment), found that the site was undeveloped prior to the construction of the existing aerospace facility some time between 1951 and 1961, with the former 420 building shown in the specific area of the site by 2010.

The site was predicted to be underlain by nominal made ground then Devensian Till (Secondary Undifferentiated Aquifer) comprising poorly sorted gravelly sandy silty clays, and underlain at depth by mudstone from the Silsden Formation (Secondary A Aquifer).

The findings of the intrusive investigation are generally concordant with the ground conditions anticipated by the Phase I Desk Study.

Current potentially contaminative industrial land uses recorded by the Ordnance Survey and Experian within 250m of the site boundary included the aerodrome complex on and surrounding the site, Rubix (distribution and Haulage) 150m west, an electricity substation 185m to the northwest, roofed storage tanks from 166m to the southwest and an open storage tank 215m to the south. In addition, the walkover survey also recorded an electricity substation adjacent to the southeast of the site.

A conceptual ground model of a site and its environs uses available information to form a preliminary assessment of contamination sources, pathways and receptors, and the significance of hazards that exist or will potentially exist on the site. Its purpose is to identify the relationships between sources of contamination, pathways and receptors to allow exposure scenarios to be determined and thereby aid in the design of any intrusive investigation. It also forms the basis of the risk assessment.

An appraisal of the sources, pathways and receptors was considered and the Phase I Report included the following preliminary conceptual ground model:

TABLE 2 CONCEPTUAL GROUND MODEL

Potential Source	Contaminants Associated with the Source	Pathway	Receptor	Preliminary Risk Rating
Contaminants in Made Ground derived from past development.	<u>Gen. Contaminants</u> Arsenic Cadmium Chromium Lead Mercury Molybdenum Nickel Selenium Boron Copper Zinc Cyanide Sulphide Sulphate pH Phenols Polynuclear Aromatic Hydrocarbons (PAH) Total Petroleum Hydrocarbons (TPH) VOCs SVOCs	Ingestion of soil	Site Operatives	Moderate
		Ingestion of dust	End Users	
		Dermal contact		
		Inhalation of dust		
		Inhalation of vapours		
		Uptake via contaminated groundwater	Vegetation	Moderate
		Vertical and lateral movement of mobile contaminants to surface water and groundwater	Controlled Waters	Low
		Direct contact	Structures and Services	Moderate
Asbestos on/ in ground derived from past development	Asbestos fibres	Inhalation of fibres	Site Operatives End Users	Moderate
Fuel/ oil spillage and/or leakage from machinery, fuel/oil tanks and/or vehicles Machinery	Total Petroleum Hydrocarbons (TPH) and/ or Benzene/ Toluene/ Ethylbenzene/ Xylene (BTEX)	Ingestion of soil	Site Operatives	Moderate
		Ingestion of dust	End Users	
		Dermal contact		
		Inhalation of dust		
		Inhalation of vapours		
	Chlorinated Solvents	Uptake via contaminated groundwater	Vegetation	Moderate
		Vertical and lateral movement of mobile contaminants to surface water and groundwater	Controlled Waters	Low
		Direct contact	Structures and Services	Moderate
Landfill (unregistered ponds and Made Ground)	Methane Carbon Dioxide	Inhalation of gas Ignition of gas	Site Operatives End Users	Very Low

(Cont.)

TABLE 2 (CONT.)

Potential Source	Contaminants Associated with the Source	Pathway	Receptor	Preliminary Risk Rating
Electricity Sub Station (Adjacent to the site) Spillage/ leakage of transformer coolants	Poly Chlorinated Biphenyls (PCB)	Ingestion of soil	Site Operatives	Low
		Ingestion of dust	End Users	
		Dermal contact		
		Inhalation of dust		
		Inhalation of vapours		
		Uptake via contaminated groundwater	Vegetation	Low
		Vertical and lateral movement of mobile contaminants to surface water and groundwater	Controlled Waters	Very Low
		Direct contact	Structures and Services	Low

5.1.3 Assessment (Soil)

5.1.3.1 Long Term Risks

In order to provide an assessment of the presence of contamination twelve soil samples have been analysed for a suite of determinants and the results are appended.

To assess the long term (chronic) risks to the end users of the site the concentrations of the determinands have been compared with the most recently published UK generic assessment criteria (GACs), including DEFRA Category 4 Screening Levels (C4SLs) (2014), CL:AIRE GACs (2010) and C4SLs (2021-2024), and LQM Limited Suitable for Use Levels (S4ULs) (2014). For compounds where no UK values have been published, international screening values have been adopted including the Dutch Intervention Values (2009) and US EPA Regional Screening Values (RSV) (2023).

The soil organic content (SOM) analyses found values ranging from 0.30% to 6.0%. Organic compounds have therefore been assessed against the GACs for a 1% SOM.

For the purposes of assessment, as the proposed development is modular offices for an aerospace works, the results of the contamination analyses have been compared with the GACs for a standard land use of commercial and industrial.

The contamination analysis determined no elevated levels of the determinants analysed for when compared with the GACs. GACs used for the assessment can be supplied directly to the Regulator, if requested.

5.1.3.2 Asbestos Containing Material (ACM)

An asbestos screen was undertaken on the soil samples and asbestos was detected in the sample taken from BH4 at 0.30m. Quantification analysis determined that white (chrysotile) asbestos was present at a concentration of <0.001%.

5.1.3.3 Contamination Short Term Risks

It is assumed that the risks from short term exposure are acceptable given that the results are below the GACs for long term exposure as detailed in 5.1.3.1 above.

5.1.4 Recommendations

5.1.4.1 Human Health

Our assessment, based on the soil samples tested, indicates that there are no contaminants requiring remediation and/or precautions to be taken for the proposed development.

Chrysotile asbestos fibres were found in one sample (BH4 at 0.30m) at a very low concentration of <0.001%. The risk of fibres being liberated and becoming airborne is likely to be very low and would be mitigated by the proposed hard surfacing. However it would be prudent to adopt a watching brief during earthworks and excavations and should any visible ACM fragments be observed we recommend that work is stopped and the risks re-assessed.

5.1.4.2 Controlled Waters

Given the low concentrations of potential contaminants in the near surface soil, the presence of relatively low permeability cohesive strata beneath the site, and the distance to the nearest sensitive watercourse (Mellor Brook 274m to north north east, or possibly the culverted Huntley Brook a similar distance to the south), in our opinion the risks to controlled waters including groundwater are very low and in our opinion no further consideration is warranted.

Should it be necessary for groundwater to be pumped from on-site excavations the groundwater should be sampled and analysed and the results of the groundwater analyses should be submitted to the appropriate waste water authority with a request for a discharge consent. Following receipt of a discharge consent groundwater is likely to be discharged to a sewer or to an off-site licensed discharge point.

5.1.4.3 Short Term Risks

S4ULs, C4SLs and CL:AIRE assume long term contact with contamination and assess long term (chronic) health risk. The risk of short term (acute) exposure to site personnel is dealt with in the remit of the Health and Safety Executive under the Health and Safety at Work Act: 1974 and Regulations made under the Act, including the Control of Substances Hazardous to Health (COSHH) Regulations and the Control of Asbestos Regulations (CAR 2012). The levels of contamination and risk to site personnel should be considered under the Construction Design and Management (CDM) Regulations at the planning stage and in the development of the designers and contractors Health and Safety Plans and Method Statements. The risk of contact with on-site soils should be minimised.

The concentration of asbestos fibres in the BH4 sample was very low (<0.001%), however, as a precaution we recommend that site personnel involved in earthworks and excavations should wear appropriate personal protective equipment (PPE) including asbestos grade dust masks.

Earthworks undertaken during dry weather might generate dust and in this instance dust should be damped down and asbestos grade dust masks made available to site operatives. In addition, stockpiled materials should be sheeted over to prevent excessive airborne dust being formed.

5.2 Updated Conceptual Model

The conceptual model of the site has been updated with regards to contamination sources, pathways and receptors, taking into account the findings of the ground investigation, as follows:

TABLE 3 UPDATED CONCEPTUAL MODEL

Potential Source	Contaminants Associated with the Source	Pathway	Receptor	Suggested Mitigation Action
Asbestos on/ in ground	Asbestos fibres	Inhalation of fibres	Site Operatives	Limit contact with soil by wearing adequate clothing and PPE.
			End Users	None required (very low risk). However, a watching brief for visible ACM should be adopted.

6 WASTE ASSESSMENT

6.1 Waste Soil Management

The European Commission (EC) Directive 2008/98/EC on waste, commonly referred to as the Waste Framework Directive (WFD) 2008 provides the legislative framework for the collection, transport, recovery and disposal of waste, and is directly transcribed into UK law through the Waste (England and Wales) Regulations 2011^[7].

The Waste Framework Directive defines waste as *‘any substance or object which the holder discards or intends or is required to discard’*. The WFD 2008 also contains an explicit exclusion for *‘uncontaminated soil and other naturally occurring material excavated in the course of construction activities where it is certain that the material will be used for the purposes of construction in its natural state on the site from which it was excavated’*.

Consequently, where it is proposed to re-use uncontaminated excavated soil the material is not classified as waste if it can be demonstrated that the soil is naturally occurring, is uncontaminated and has a definite use in the construction project on the same site.

When managing soil waste, the Waste Hierarchy should be followed with the options in order of preference being prevention, re-use, recycling, other recovery, and disposal.

6.2 Landfill Legislation

The EU Landfill Directive (1999/31/EC) limits the types and nature of waste that can be sent to landfill and in the UK is enacted into UK law by the Environmental Permitting (England and Wales) Regulations 2010 (EP).

Under the EP regulations:

- Certain kinds of waste cannot be landfilled.
- Landfills are classified according to whether they can accept hazardous, non-hazardous or inert wastes.
- Wastes can only be accepted at a landfill if they meet the waste acceptance criteria (WAC) for that class of landfill.
- Most wastes must be treated before they can be sent to landfill.

The waste classification has been undertaken in accordance with the guidance given in the Environment Agency technical guidance document WM3 (V1.2.GB) '*Waste Classification: Guidance on the classification and assessment of waste*'^[8], using the HazWasteOnline™ assessment tool.

6.3 Waste Classification

The material descriptions were compared with the List of Waste Regulations (LoW) which transposes into UK law the European Waste Catalogue 2002 (EWC 2002, Commission Decision 2000/532/EC). The material was assigned an initial LoW/EWC code of 17 05 03* (soil and stones containing hazardous substances) or 17 05 04 (soil and stones other than those mentioned in 17 05 03*). Waste codes marked with an asterisk are hazardous.

The results of the inorganic analyses are generally reported by the laboratory as total ions at dry weight concentrations. For waste classification purposes the values have been converted to wet weight concentrations and where applicable the ion concentrations have been converted to concentrations of the worst case compounds likely to be present. Details of the compounds considered and the conversions undertaken are given in the appended HazWasteOnline™ Waste Classification Report.

The converted analysis results were compared with Annex VI Tables 3.1 and 3.2 of the Classification, Labelling and Packaging of Substances (CLP) Regulations (67/548/EEC and 1999/45/EC) to determine the Hazard Statement Codes, Categories and Classes attributed to those compounds. Appendix C of WM3 was then used to find the Hazard Properties and thresholds for each Hazard Statement Code.

The final LoW/EWC code for the sample is given in the appended HazWasteOnline™ Waste Classification Report Sheets and the findings are summarised in the following table:

TABLE 4 WASTE CLASSIFICATION OF SAMPLES
MADE GROUND

Location	Depth	Waste Classification	Hazard Properties	LoW/EWC Code
BH1	0.26	Non-Hazardous	None	17 05 04
BH2	0.23	Non-Hazardous	None	17 05 04
BH3	0.30	Non-Hazardous	None	17 05 04
BH4	0.30	Non-Hazardous	None	17 05 04
BH4	0.60	Non-Hazardous	None	17 05 04
BH5	0.30	Non-Hazardous	None	17 05 04
BH6	0.30	Non-Hazardous	None	17 05 04

TABLE 5 WASTE CLASSIFICATION OF SAMPLES
NATURAL CLAY

Location	Depth	Waste Classification	Hazard Properties	LoW/EWC Code
BH1	0.35	Non-Hazardous	None	17 05 04
BH2	0.60	Non-Hazardous	None	17 05 04
BH3	0.60	Non-Hazardous	None	17 05 04
BH5	0.60	Non-Hazardous	None	17 05 04
BH6	0.60	Non-Hazardous	None	17 05 04

Based on the testing completed to date, in our opinion, if it is intended to dispose of the excavated material to landfill, both the made ground and natural material should be given a LoW/EWC code of 17 05 04 and described as 'soil and stones other than those mentioned in 17 05 03*'. The material should be disposed of as Non-Hazardous waste.

Chrysotile asbestos fibres were recorded in one sample (BH4 at 0.30m). While the concentration of asbestos is well below the hazardous waste threshold (<0.001% versus a threshold of 0.1%) we recommend a watching brief is adopted during excavation and should any ACM fragments be observed these should be separated out and disposed of as a separate waste stream with a LoW/EWC code of 17 06 05* 'construction materials containing asbestos'.

Under the Landfill Directive (Council Directive 1999/31/EC) where technically feasible pre-treatment of the waste is required before disposal at a landfill site; this can include physical sorting.

It should also be noted that the WM3 guidance sets out a minimum number of samples for waste classification based on the amount of material to be disposed of and the variation in the results of the analyses, and therefore depending on the final volume of material to be disposed of, additional tests may be required in order to fully comply with the guidance.

6.4 Waste Acceptance Criteria

WAC analyses are primarily intended to determine the leachable characteristics of the waste material and are required for disposal of material at engineered Inert or Hazardous landfill sites. The relationship between waste classification and WAC analyses is summarised in the following table:

TABLE 6 CLASSIFICATION AND WAC RELATIONSHIP

Classification	WAC Characteristics	Destination	WAC testing required under EP Regs
Non Hazardous	Below inert thresholds	Inert landfill	Yes
Non Hazardous	Above inert thresholds	Non Hazardous landfill	No
Hazardous	Below hazardous thresholds*	Hazardous landfill	Yes

*Hazardous waste with leachable characteristics above the hazardous WAC threshold is not suitable for disposal at a landfill site without treatment.

Under the EP Regulations WAC analyses are not normally required for disposal of material at a registered Non Hazardous landfill site, however, it should be noted that this is at the discretion of the waste receiver and a minority of waste carriers insist on WAC analyses regardless of the disposal route.

WAC analysis has been undertaken on three samples of made ground and the results are appended.

When compared with the Inert thresholds, elevated concentrations of total organic carbon were found in all three samples (16.0%, 8.3% ,and 18.0% versus a threshold of 3.0%).

Based on the above the made ground should be disposed of at a Non-Hazardous landfill.

It is possible that the natural material could be disposed of at an Inert Landfill subject to additional WAC analyses.

The number of WAC samples required for a given consignment is set out in the Environment Agency's guidance on 'Disposal of Waste at Landfill' (<https://www.gov.uk/guidance/dispose-of-waste-to-landfill>) and is dependent on the homogeneity of the material and the quantity of waste to be disposed of. Additional tests may therefore be required to satisfy the technical requirement of the EA guidance, dependent on the final volume of material to be disposed of.

6.5 Classification Summary

Based on the testing carried out to date, in our opinion the excavated material should be classified as follows:

TABLE 7 WASTE CLASSIFICATION AND EWC CODE
MADE GROUND

Waste Classification	Hazard Properties	Description	LoW/EWC Code	Destination
Non-Hazardous	None	soil and stones other than those mentioned in 17 05 03*	17 05 04	Non-Hazardous Landfill

TABLE 7 WASTE CLASSIFICATION AND EWC CODE
NATURAL CLAY

Waste Classification	Hazard Properties	Description	LoW/EWC Code	Destination
Non-Hazardous	None	soil and stones other than those mentioned in 17 05 03*	17 05 04	Non-Hazardous Landfill**

**possibly inert subject to additional WAC analyses

6.6 Material Re-use

As an alternative to landfill consideration could be given to re-use of the excavated soil either under and Environmental Exemption or Permit, or under the CL:AIRE Definition of Waste Code of Practice (DoW CoP)^[9].

If the Environmental permitting route is adopted then a U1 Waste Exemption would allow for the re-use of up to 1,000m³ of non-hazardous soil, for greater quantities a standard rules or bespoke Environmental Permit would be required.

If the CL:AIRE DoW CoP approach is adopted, this protocol provides a process which enables the reuse of certain excavated materials on-site or their movement between sites. Use of the DoW CoP supports the sustainable and cost-effective development of land. It can provide an alternative to Environmental Permits or Waste Exemptions.

If materials are dealt with in accordance with the DoW CoP then the EA considers that those materials are unlikely to be waste if they are used for the purpose of land development.

Good practice under the DoW CoP comprises three basic steps as follows:

1. Ensuring that an adequate Materials Management Plan (MMP) is in place, covering the use of materials on a specific site;
2. Ensuring that the MMP is based on an appropriate risk assessment, that underpins the Remediation Strategy or Design Statement, concluding that the objectives of preventing harm to human health and pollution of the environment will be met if materials are used in the proposed manner; and
3. Ensuring that materials are actually treated and used as set out in the MMP and that this is subsequently demonstrated in a Verification Report.

In order to demonstrate that the DoW CoP guidance has been correctly applied, the MMP and supporting evidence is subjected to scrutiny by a CL:AIRE registered Qualified Person. On approval of the MMP the Qualified Person submits a Declaration to CL:AIRE. Once the Declaration is submitted the materials can be used in accordance with the MMP and the Environment Agency will take the view that the materials are not waste. It should be noted that **the Declaration must be completed and submitted to CL:AIRE prior to commencing excavation.**

If the materials are not used in accordance with the MMP, or if it is not possible to demonstrate that the MMP has been adhered to then the Environment Agency may conclude that those materials have been discarded and are waste.

7 CLIMATE CHANGE EFFECTS

The predicted climate change impacts for the UK over the next fifty years include extreme weather patterns (including higher intensity storm events), higher temperatures, increased flooding and sea level rise. These events could conceivably have an impact on groundwater levels, soil desiccation and fissuring, which could in turn have an adverse effect on the structural strength of near surface soils, subsidence and heave in shrink-swell clays, and the fate and transport of soil and groundwater contaminants.

In our opinion the effects of climate change in the near term are unlikely to impact on the risk assessment for the proposed development, however this report should not be relied on for future development projects.

8 SUSTAINABILITY

Carbon and energy costs should be taken into account when designing the foundations, waste management, and remediation schemes.

With regard to soil waste management the Waste Hierarchy should be followed with the options in order of preference being prevention, re-use, recycling, other recovery, and disposal.

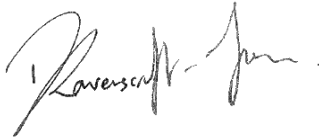
We recommend remediation strategies are designed in accordance with the guidance given by Sustainable Remediation Forum UK (SuRF-UK) at <https://claire.co.uk/projects-and-initiatives/surf-uk>.

9 GENERAL

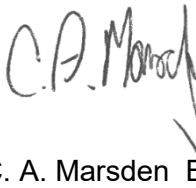
We recommend that consultation should be undertaken with, and the written approval obtained from, the Local Authority Environmental Health Officer and the Local Authority Building Control Officer prior to commencing development.

We trust that this report fulfils your present requirements but if you have any queries or we can be of further assistance please contact the undersigned or Mr Ben Osborne at our Preston office.

SUB SURFACE CONSULTANTS LIMITED
REPORT No. 8216A
NOVEMBER 2025



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Director
For and on behalf of
Sub Surface Consultants Limited.

10 REFERENCES

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INSITU TEST RESULTS



SUB SURFACE

SITE INVESTIGATION, GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS
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Standard Penetration Test Results

Site : NEW MODULAR OFFICES, FORMER 420 BUILDING, BAE SYSTEMS, SAMLESBURY AERODROME, BB2 7LF

Client : T CLARKE CONTRACTING LIMITED

Architect: WILSON MASON LLP

Job Number
8216A

Sheet
1 / 2

Borehole Number	Base of Borehole (m)	End of Seating Drive (m)	End of Test Drive (m)	Test Type	Seating Blows per 75mm		Blows for each 75mm penetration				Result	Comments
					1	2	1	2	3	4		
BH01	1.20	1.35	1.65	SPT	1	1	2	2	2	3	N=9	No Recovery
BH01	2.00	2.15	2.45	SPT	1	2	2	3	3	4	N=12	
BH01	4.00	4.15	4.45	SPT	2	2	3	3	4	5	N=15	
BH01	5.00	5.15	5.45	SPT	2	2	2	3	5	4	N=14	
BH01	8.00	8.15	8.45	SPT	2	2	2	4	5	7	N=18	
BH01	11.00	11.15	11.45	SPT	5	2	3	4	4	5	N=16	
BH01	14.00	14.15	14.45	SPT	1	2	4	5	7	9	N=25	
BH01	15.00	15.15	15.45	SPT	2	4	4	7	8	8	N=27	
BH02	1.20	1.35	1.65	SPT	1	2	2	2	2	2	N=8	No recovery.
BH02	3.00	3.15	3.45	SPT	1	2	2	2	2	3	N=9	
BH02	5.00	5.15	5.45	SPT	1	1	1	1	1	1	N=4	
BH02	6.50	6.65	6.95	SPT	1	1	1	1	1	1	N=4	
BH02	9.50	9.65	9.95	SPT	3	4	5	5	6	7	N=23	
BH02	12.00	12.15	12.45	SPT	2	4	5	6	7	7	N=25	
BH02	13.50	13.65	13.95	SPT	2	3	5	7	8	8	N=28	
BH02	15.00	15.15	15.45	SPT	3	5	5	8	8	9	N=30	
BH02	16.50	16.65	16.95	SPT	3	5	5	5	6	7	N=23	
BH02	18.00	18.15	18.45	SPT	3	4	4	5	8	9	N=26	
BH02	19.60	19.75	20.05	SPT	5	6	7	9	9	11	N=36	
BH03	1.20	1.35	1.65	SPT	1	1	1	1	1	1	N=4	No recovery.
BH03	4.00	4.15	4.45	SPT	1	1	1	1	1	2	N=5	
BH03	5.00	5.15	5.45	SPT	2	2	2	2	2	2	N=8	
BH03	8.00	8.15	8.45	SPT	3	3	5	5	5	6	N=21	
BH03	9.50	9.65	9.95	SPT	3	4	4	4	5	6	N=19	
BH03	11.00	11.15	11.45	SPT	4	4	5	6	7	7	N=25	
BH03	12.50	12.65	12.95	SPT	4	5	5	6	7	8	N=26	
BH03	15.00	15.15	15.45	SPT	4	5	5	7	9	11	N=32	
BH03	16.50	16.65	16.95	SPT	4	5	7	7	9	13	N=36	
BH03	18.00	18.15	18.45	SPT	5	6	8	8	10	13	N=39	
BH03	19.60	19.75	20.05	SPT	5	7	8	8	12	14	N=42	
BH04	2.00	2.15	2.45	SPT	2	3	3	3	3	3	N=12	No Recovery
BH04	3.00	3.15	3.45	SPT	2	3	3	3	3	4	N=13	
BH04	4.00	4.15	4.45	SPT	2	3	4	4	4	4	N=16	
BH04	5.00	5.15	5.45	SPT	2	2	2	3	3	4	N=12	
BH04	7.00	7.15	7.45	SPT	4	5	7	7	7	7	N=28	
BH04	8.00	8.15	8.45	SPT	5	6	7	7	7	8	N=29	
BH04	9.50	9.65	9.95	SPT	3	4	5	5	7	7	N=24	
BH04	12.50	12.65	12.95	SPT	3	3	4	5	6	7	N=22	
BH04	14.00	14.15	14.45	SPT	3	3	6	6	8	8	N=28	
BH04	15.00	15.15	15.45	SPT	2	4	4	7	8	9	N=28	
BH05	1.20	1.35	1.65	SPT	1	1	1	1	1	1	N=4	
BH05	4.00	4.15	4.45	SPT	1	1	1	1	2	2	N=6	



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Standard Penetration Test Results

Site : NEW MODULAR OFFICES, FORMER 420 BUILDING, BAE SYSTEMS, SAMLESBURY AERODROME, BB2 7LF

Client : T CLARKE CONTRACTING LIMITED

Architect: WILSON MASON LLP

Job Number
8216A

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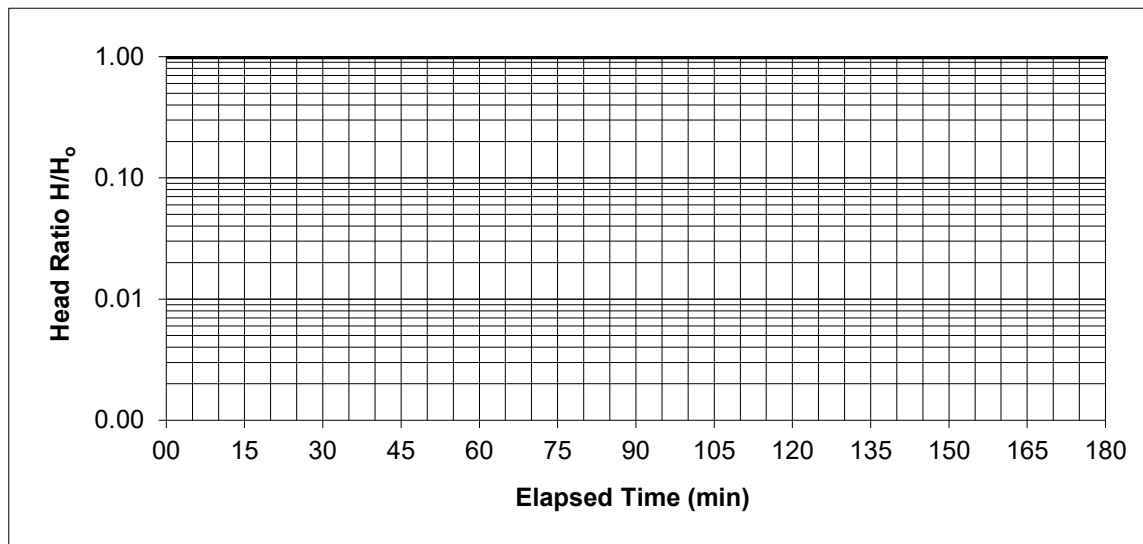
Borehole Number	Base of Borehole (m)	End of Seating Drive (m)	End of Test Drive (m)	Test Type	Seating Blows per 75mm		Blows for each 75mm penetration				Result	Comments
					1	2	1	2	3	4		
BH05	5.00	5.15	5.45	SPT	1	2	2	2	3	3	N=10	No recovery.
BH05	6.50	6.65	6.95	SPT	3	3	5	5	5	6	N=21	
BH05	9.50	9.65	9.95	SPT	2	4	4	5	6	7	N=22	
BH05	12.50	12.65	12.95	SPT	3	5	6	7	7	9	N=29	
BH05	14.00	14.15	14.45	SPT	5	5	7	7	9	10	N=33	
BH05	15.50	15.65	15.95	SPT	4	5	6	9	9	9	N=33	
BH05	17.00	17.15	17.45	SPT	3	5	7	8	8	9	N=32	
BH05	18.50	18.65	18.95	SPT	5	5	7	8	8	10	N=33	
BH05	20.00	20.15	20.45	SPT	5	6	7	7	9	11	N=34	
BH06	2.00	2.15	2.45	SPT	2	2	3	4	4	4	N=15	No Recovery
BH06	4.00	4.15	4.45	SPT	1	3	3	3	3	3	N=12	
BH06	5.00	5.15	5.45	SPT	2	3	4	4	4	4	N=16	
BH06	8.00	8.15	8.45	SPT	4	4	5	5	6	7	N=23	
BH06	9.50	9.65	9.95	SPT	4	5	5	7	7	8	N=27	
BH06	11.00	11.15	11.45	SPT	5	5	6	7	7	9	N=29	
BH06	12.50	12.65	12.95	SPT	5	6	6	6	8	10	N=30	
BH06	15.00	15.15	15.45	SPT	5	6	7	9	9	11	N=36	

**SUB SURFACE**SITE INVESTIGATION AND SPECIALIST GEOTECHNICAL CONSULTANTS
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Site: MODULAR OFFICES, FORMER 420 BUILDING, BAE SAMLESBURY.

Client: T. CLARKE

Architect: WILSON MASON LLP

Job Number
8216ASheet:
1/2**Falling Head Permeability Test****HOLE NO: BH1****TEST NO: 1****DATE: 30/09/2025**

Time Elapsed		Depth of Water [d _t]	Water Column Ht. [h _t = d _s - d _t]	Head Ratio [h _t / h _o]
(min)	(sec)	(m)	(m)	
00	00	1.00	1.00	1.00
00	30	1.00	1.00	1.00
01	00	1.00	1.00	1.00
02	00	1.00	1.00	1.00
04	00	1.00	1.00	1.00
06	00	1.00	1.00	1.00
08	00	1.00	1.00	1.00
10	00	1.00	1.00	1.00
15	00	1.00	1.00	1.00
30	00	1.00	1.00	1.00
45	00	1.00	1.00	1.00
60	00	1.00	1.00	1.00
90	00	1.00	1.00	1.00
120	00	1.00	1.00	1.00
180	00	1.00	1.00	1.00
240	00	1.00	1.00	1.00

Top of test section: 1.00 m

Bottom of test section: 2.00 m

Response Zone [L]: 1.00 m

Diameter [D]: 0.15 m

Cross Sectional Area [A]: 0.02 m²Standing Water Depth [d_s]: 2.00 mInitial Water Column H_t [h_o]: 1.00 m

Basic Time Lag [T]: — s

Intake Factor [F]: 2.4205 m

where $F = \frac{2 \pi L}{\log_e [(L/D) + \{1 + (L/D)^2\}]}$ #**COEFFICIENT OF PERMEABILITY****k = $\frac{A}{F \times T}$** **k = N/A* m/s**

Test Strata:

Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.

Remarks:

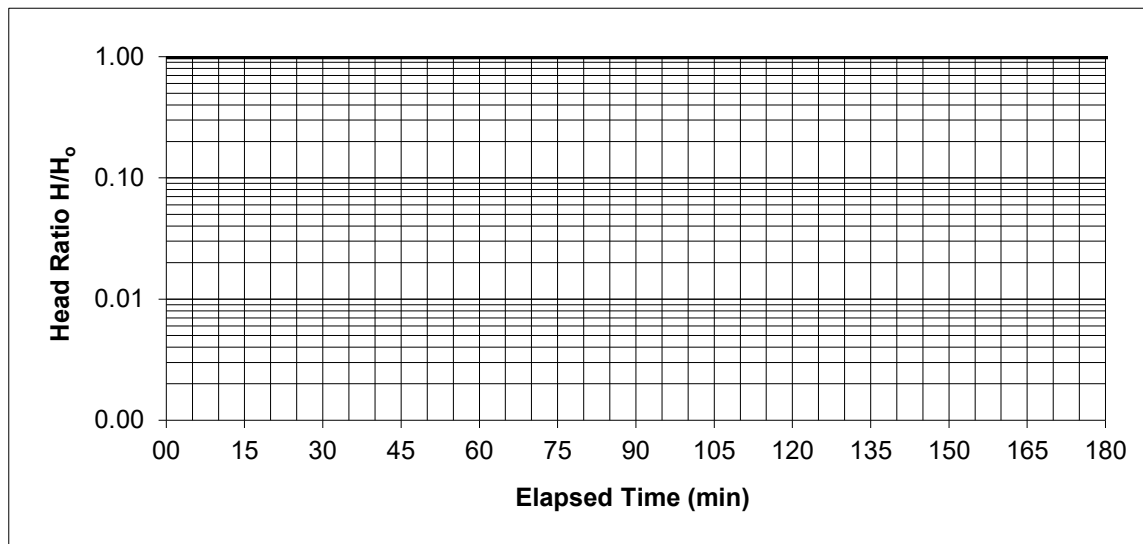
- * Unable to determine soil infiltration rate due to relative impermeability of test stratum.
- # Exploratory hole extended in uniform soil.

**SUB SURFACE**SITE INVESTIGATION AND SPECIALIST GEOTECHNICAL CONSULTANTS
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Site: MODULAR OFFICES, FORMER 420 BUILDING, BAE SAMLESBURY.

Client: T. CLARKE

Architect: WILSON MASON LLP

Job Number
8216ASheet:
2/2**Falling Head Permeability Test****HOLE NO: BH6****TEST NO: 1****DATE: 08/10/2025**

Time Elapsed		Depth of Water [d _t]	Water Column Ht. [h _t = d _s - d _t]	Head Ratio [h _t / h _o]
(min)	(sec)	(m)	(m)	
00	00	1.00	1.00	1.00
00	30	1.00	1.00	1.00
01	00	1.00	1.00	1.00
02	00	1.00	1.00	1.00
04	00	1.00	1.00	1.00
06	00	1.00	1.00	1.00
08	00	1.00	1.00	1.00
10	00	1.00	1.00	1.00
15	00	1.00	1.00	1.00
30	00	1.00	1.00	1.00
45	00	1.00	1.00	1.00
60	00	1.00	1.00	1.00
90	00	1.00	1.00	1.00
120	00	1.00	1.00	1.00
180	00	1.00	1.00	1.00
240	00	1.00	1.00	1.00

Top of test section: 1.50 m

Bottom of test section: 2.00 m

Response Zone [L]: 0.50 m

Diameter [D]: 0.15 m

Cross Sectional Area [A]: 0.02 m²Standing Water Depth [d_s]: 2.00 mInitial Water Column H_t [h_o]: 1.00 m

Basic Time Lag [T]: — s

Intake Factor [F]: 1.6372 m

where $F = \frac{2 \pi L}{\log_e [(L/D) + \{1 + (L/D)^2\}]}$ #**COEFFICIENT OF PERMEABILITY****k =** $\frac{A}{F \times T}$ **k =** **N/A*** **m/s**

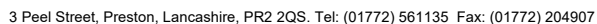
Test Strata:

Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.

Remarks:

- * Unable to determine soil infiltration rate due to relative impermeability of test stratum.
- # Exploratory hole extended in uniform soil.

GROUNDWATER MONITORING RESULTS



Job Number:

8216A

Sheet:

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GROUNDWATER MONITORING RESULTS SHEET

[illegible]

Remarks:

LABORATORY TEST RESULTS



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Laboratory Test Results

Site : NEW MODULAR OFFICES, FORMER 420 BUILDING, BAE SYSTEMS, SAMLESBURY AERODROME, BB2 7LF

Job Number
8216A

Client : T CLARKE CONTRACTING LIMITED

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Architect: WILSON MASON LLP

DETERMINATION OF DENSITY, MOISTURE CONTENT AND UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION WITHOUT MEASUREMENT OF PORE PRESSURE

Borehole/ Trial Pit	Depth (m)	Sample	Moisture Content %	Bulk Density (Mg/m ³)	Dry Density (Mg/m ³)	Cell Pressure (kN/m ²)	Deviator Stress (kN/m ²)	Apparent Cohesion (kN/m ²)	Angle of Shearing Resistance (degrees)	Laboratory Description
BH01	3.00	U	23	2.12	1.72	75 125 175	44 0 0	22	0.0	Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.
BH01	6.50	U	19	2.14	1.79	150 200 250	125 131 135	65	0.0	Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.
BH01	9.50	U	21	2.00	1.65	200 250 300	104 0 0	52	0.0	Brown silty CLAY.
BH01	12.50	U	18	2.10	1.78	250 300 350	226 228 231	114	0.0	Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.
BH02	2.00	U*	17	2.11	1.80			75		Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.
BH02	4.00	U	20	2.07	1.73	100 150 200	93 93 94	47	0.0	Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.
BH02	8.00	U	17	2.15	1.83	175 225 275	209 212 221	107	0.0	Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.
BH02	11.00	U	18	2.12	1.80	225 275 325	202 204 209	103	0.0	Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.
BH03	2.00	U	25	1.98	1.58	50 100 150	122 0 0	61	0.0	Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.
BH03	3.00	U*	20	2.12	1.76			63		Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.
BH03	6.50	U	30	2.00	1.54	150 200 250	84 0 0	42	0.0	Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.
BH03	14.00	U	17	2.10	1.78	300 350 400	220 245 245	118	0.0	Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.
BH04	1.20	U	21	2.11	1.74	25 75 125	264 267 268	133	0.0	Brown slightly sandy silty CLAY.
BH04	11.00	U	16	2.13	1.83	225 275 325	166 169 171	84	0.0	Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.
BH05	2.00	U	20	2.10	1.75	50 100 150	206 207 0	103	0.0	Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.
BH05	5.00	U	19	2.09	1.75	100 150 200	132 138 142	69	0.0	Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.
BH05	8.00	U*	13	2.39	2.11			43		Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.
BH05	11.00	U	17	2.14	1.83	225 275 325	158 159 160	80	0.0	Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.
BH06	1.20	U	21	1.98	1.64	25 75 125	156 0 0	78	0.0	Brown slightly sandy silty CLAY.

Method of Preparation : BS 1377:PART 1:1990:7.4.2 Moisture content 1990: Preparation of undisturbed samples for testing BS 1377:PART 2:1990:7.2

Method of Test : BS 1377:PART 2:1990:3 Determination of moisture content 1990:7 Determination of density BS 1377:PART 7:1990:8 Undrained shear strength 1990:9 Multistage loading

Remarks : *No triaxial test possible, c value based on hand penetrometer or hand shear vane test.



Site : NEW MODULAR OFFICES, FORMER 420 BUILDING, BAE SYSTEMS, SAMLESBURY AERODROME, BB2 7LF Client : T CLARKE CONTRACTING LIMITED Architect: WILSON MASON LLP	Job Number 8216A
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Borehole/ Trial Pit	Depth (m)	Sample	Moisture Content %	Bulk Density (Mg/m³)	Dry Density (Mg/m³)	Cell Pressure (kN/m²)	Deviator Stress (kN/m²)	Apparent Cohesion (kN/m²)	Angle of Shearing Resistance (degrees)	Laboratory Description
BH06	3.00	U	26	1.93	1.53	75 125 175	100 107 108	53	0.0	Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.
BH06	6.50	U	19	2.03	1.71	150 200 250	49 51 52	25	0.0	Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.
BH06	14.00	U*	21					50		Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.

Method of Preparation: BS 1377:PART 1:1990:7.4.2 Moisture content 1990: Preparation of undisturbed samples for testing BS 1377:PART 2:1990:7.2

Method of Test : BS 1377:PART 2:1990:3 Determination of moisture content 1990:7 Determination of density BS 1377:PART 7:1990:8 Undrained shear strength
1990:9 Multistage loading

Remarks : *No triaxial test possible, c value based on hand penetrometer or hand shear vane test.



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Laboratory Test Results

Site : NEW MODULAR OFFICES, FORMER 420 BUILDING, BAE SYSTEMS, SAMLESBURY AERODROME, BB2 7LF

Client : T CLARKE CONTRACTING LIMITED

Architect: WILSON MASON LLP

Job Number
8216A

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DETERMINATION OF MOISTURE CONTENT, LIQUID LIMIT AND PLASTIC LIMIT AND DERIVATION OF PLASTICITY AND LIQUIDITY INDEX

Borehole/ Trial Pit	Depth (m)	Sample	Natural Moisture Content %	Sample Passing 425µm Sieve		Liquid Limit %	Plastic Limit %	Plasticity Index %	Liquidity Index	Group Symbol	Laboratory Description
				Percentage %	Moisture Content %						
BH01	3.00	U	23	98	23	41	19	22	0.20	CI	Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.
BH01	6.50	U	9	98	9	39	17	22	-0.35	CI	Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.
BH01	12.50	U	18	98	18	40	19	21	-0.03	CI	Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.
BH02	2.00	U	17	96	18	29	14	15	0.25	CL	Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.
BH02	11.00	U	18	99	18	37	18	19	0.01	CI	Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.
BH02	17.50	D	20	97	21	46	23	23	-0.10	CI	Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.
BH03	3.00	U	20	95	21	40	18	22	0.14	CI	Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.
BH03	9.50	B	20	96	21	41	18	23	0.12	CI	Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.
BH03	14.00	U	17	99	17	37	20	17	-0.16	CI	Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.
BH03	18.00	D	23	94	24	40	21	19	0.18	CI	Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.
BH04	1.20	U	21	98	21	52	24	28	-0.09	CH	Brown slightly sandy silty CLAY.
BH04	11.00	U	16	96	17	36	18	18	-0.07	CI	Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.
BH05	0.60	B	20	98	20	34	17	17	0.20	CL	Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.
BH05	2.00	U	20	96	21	41	19	22	0.08	CI	Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.
BH05	8.00	U	13	97	13	28	13	15	0.03	CL	Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.
BH05	11.00	U	17	96	18	37	16	21	0.08	CI	Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.
BH05	18.00	D	20	88	23	42	20	22	0.12	CI	Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.
BH06	1.20	U	21	99	21	42	20	22	0.05	CI	Brown slightly sandy silty CLAY.
BH06	6.50	U	19	98	19	37	16	21	0.16	CI	Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.
BH06	14.00	U	21	91	23	37	17	20	0.31	CI	Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.

Method of Preparation : BS 1377:PART 1:1990:7.4 Preparation of samples for classification tests BS 1377:PART 2:1990:4.2 & 5.2 Sample preparations

Method of Test : BS 1377:PART 2:1990:3 Determination of moisture content 1990:4 Determination of the liquid limit BS 1377:PART 2:1990:5 Determination of the plastic limit and plasticity index

Remarks :

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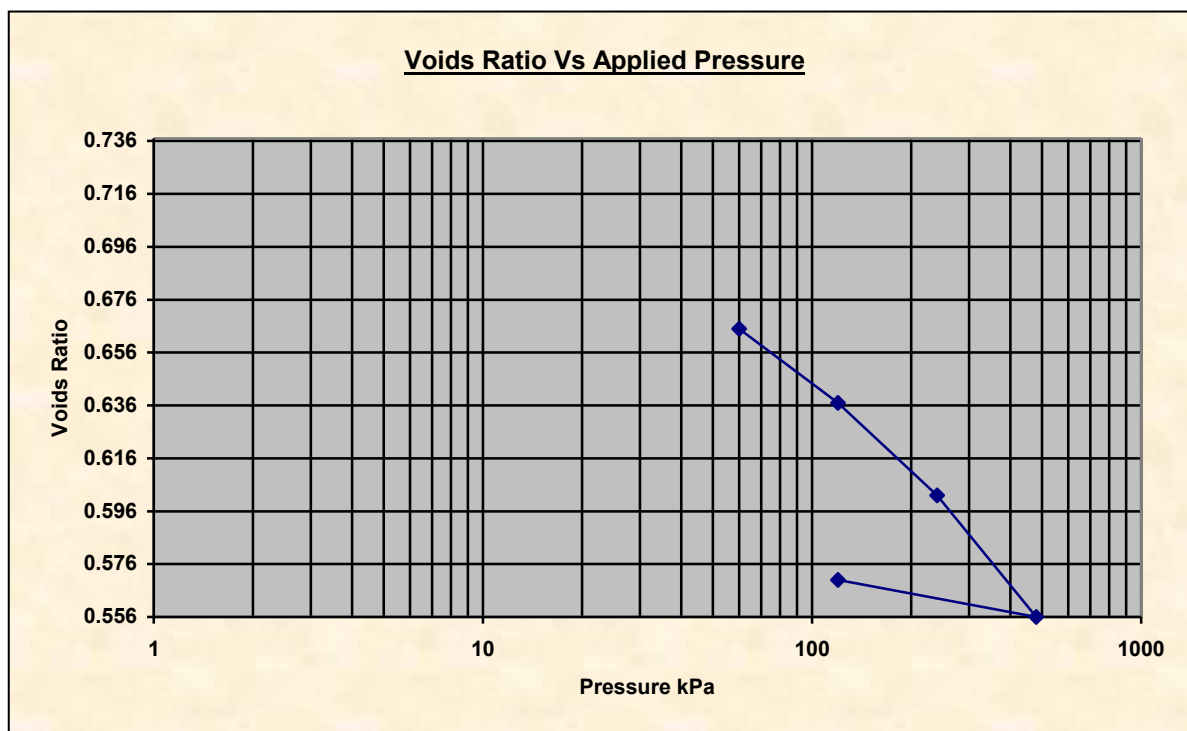
Laboratory Test Results**One Dimensional Consolidation Properties (Oedometer)**

Client	Sleater and Watson	Lab Ref	007 (WAC)
Project	New Modular Office, BAE Samlesbury	Job	8216A
Borehole	BH 1	Sample	007

Test Details			
Standard	BS 1377: Part 5 : 1990 : Clause 3	Particle Density	2.65 Mg/m ³
Sample Type	Undisturbed sample - open drive	Lab Temperature	21.0 deg.C
Sample Depth	3.00 m		
Sample Description	Brown slightly gravelly slightly sandy CLAY. Gravel is subrounded to rounded fine to medium siltstone and mudstone.		
Variations from Procedure	None		

Specimen Details			
Specimen Reference	A	Description	As Above
Depth within Sample	0.00mm	Orientation within Sample	None
Specimen Mass	167.24 g	Condition	Natural Moisture
Specimen Height	20.00 mm	Preparation	Natural Undisturbed
Comments			

Test Apparatus			
Ring Number	1	Ring Diameter	75.00 mm
Ring Height	20.00 mm	Ring Weight	112.10 g
Lever Ratio	9.00 : 1		



Height of Solid Particles	11.51 mm	Swelling Pressure	0.0 kPa
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Laboratory Test Results**One Dimensional Consolidation Properties (Oedometer)**

Client	Sleater and Watson	Lab Ref	007 (WAC)
Project	New Modular Office, BAE Samlesbury	Job	8216A
Borehole	BH 1	Sample	007

Initial Moisture Content*	24.1 %	Final Moisture Content	19.5 %
Initial Bulk Density	1.89 Mg/m ³	Final Bulk Density	2.02 Mg/m ³
Initial Dry Density	1.53 Mg/m ³	Final Dry Density	1.69 Mg/m ³
Initial Void Ratio	0.7374	Final Void Ratio	0.5703
Initial Degree of Saturation	86.59%	Final Degree of Saturation	90.40 %

- Calculated from initial and dry weights of whole specimen

Pressure (Loading Stages)	Coefficient of Volume Compressibility (m_v)	Coefficient of Consolidation (c_v)
0.00		
60.0 kPa	0.69 m ² /MN	0.84 m ² /yr
120.0 kPa	0.28 m ² /MN	0.75 m ² /yr
240.0 kPa	0.18 m ² /MN	0.85 m ² /yr
480.0 kPa	0.12 m ² /MN	0.77 m ² /yr
120.0 kPa	0.02 m ² /MN	-----

Method of Time Fitting Used

Square Root Time

Tested By and Date:	WAC 06 Nov 25
Checked By and Date:	
Approved By and Date:	

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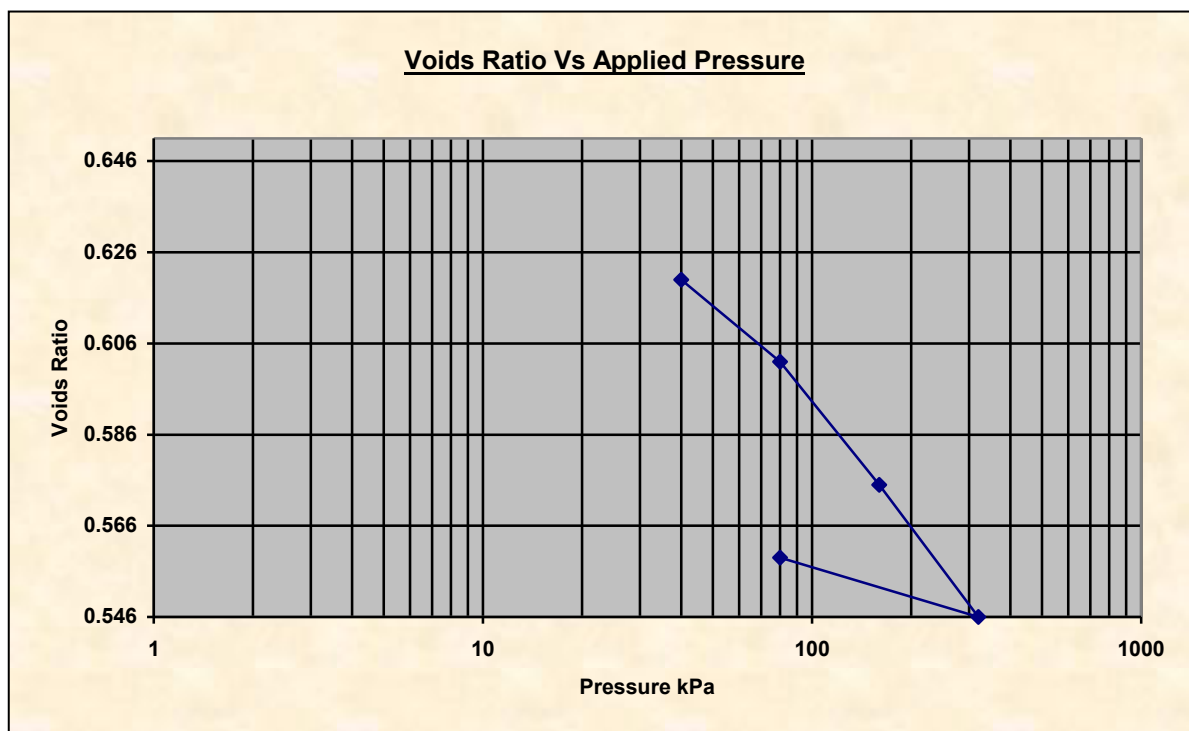
Laboratory Test Results**One Dimensional Consolidation Properties (Oedometer)**

Client	Sleater and Watson	Lab Ref	038 (WAC)
Project	New Modular Office, BAE Samlesbury	Job	8216A
Borehole	BH 2	Sample	038

Test Details			
Standard	BS 1377: Part 5 : 1990 : Clause 3	Particle Density	2.65 Mg/m ³
Sample Type	Undisturbed sample - open drive	Lab Temperature	21.0 deg.C
Sample Depth	2.00 m		
Sample Description	Brown slightly gravelly slightly sandy CLAY. Gravel is subrounded fine to coarse quartz.		
Variations from Procedure	None		

Specimen Details			
Specimen Reference	A	Description	As Above
Depth within Sample	0.00mm	Orientation within Sample	None
Specimen Mass	173.27 g	Condition	Natural Moisture
Specimen Height	20.00 mm	Preparation	Natural Undisturbed
Comments			

Test Apparatus			
Ring Number	1	Ring Diameter	75.00 mm
Ring Height	20.00 mm	Ring Weight	115.86 g
Lever Ratio	9.00 : 1		



Height of Solid Particles	12.11 mm	Swelling Pressure	0.0 kPa
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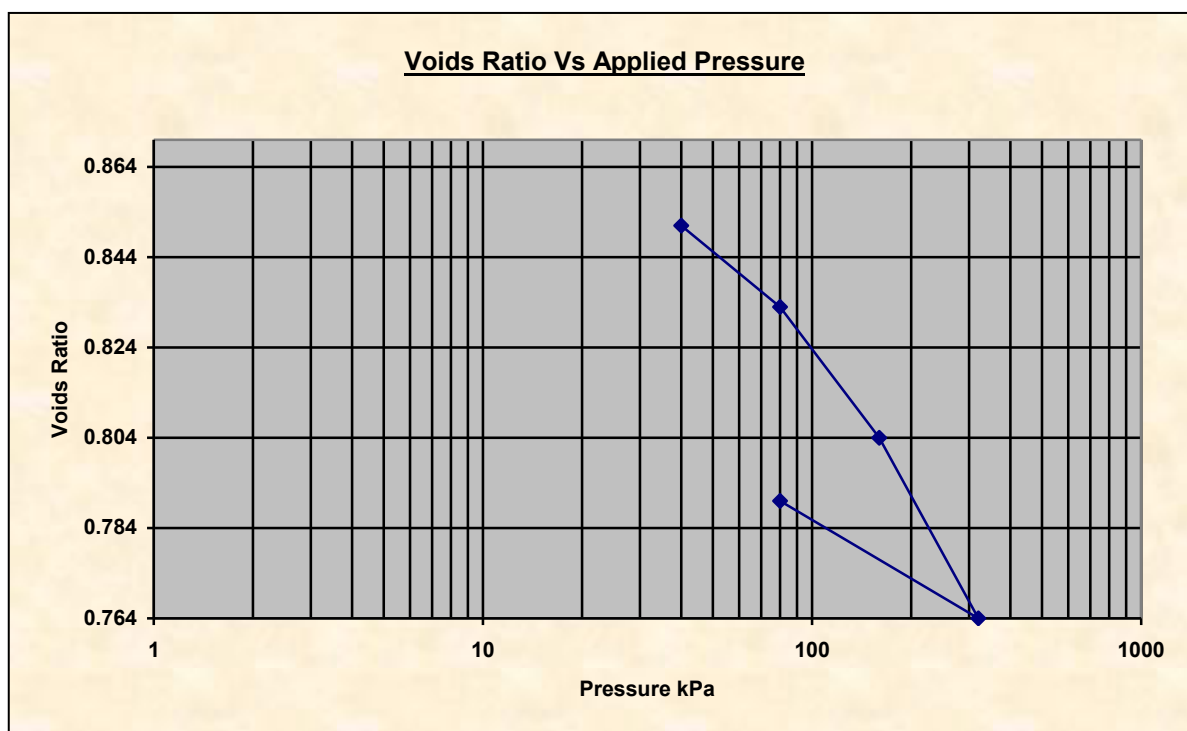
Laboratory Test Results**One Dimensional Consolidation Properties (Oedometer)**

Client	Sleater and Watson	Lab Ref	074 (WAC)
Project	New Modular Office, BAE Samlesbury	Job	8216A
Borehole	BH 3	Sample	074

Test Details			
Standard	BS 1377: Part 5 : 1990 : Clause 3	Particle Density	2.65 Mg/m ³
Sample Type	Undisturbed sample - open drive	Lab Temperature	21.0 deg.C
Sample Depth	2.00 m		
Sample Description	Brown with occasional grey gleying silty CLAY.		
Variations from Procedure	None		

Specimen Details			
Specimen Reference	A	Description	As Above
Depth within Sample	0.00mm	Orientation within Sample	None
Specimen Mass	161.15 g	Condition	Natural Moisture
Specimen Height	20.00 mm	Preparation	Natural Undisturbed
Comments			

Test Apparatus			
Ring Number	2	Ring Diameter	75.00 mm
Ring Height	20.00 mm	Ring Weight	113.20 g
Lever Ratio	9.00 : 1		



Height of Solid Particles	10.70 mm	Swelling Pressure	0.0 kPa
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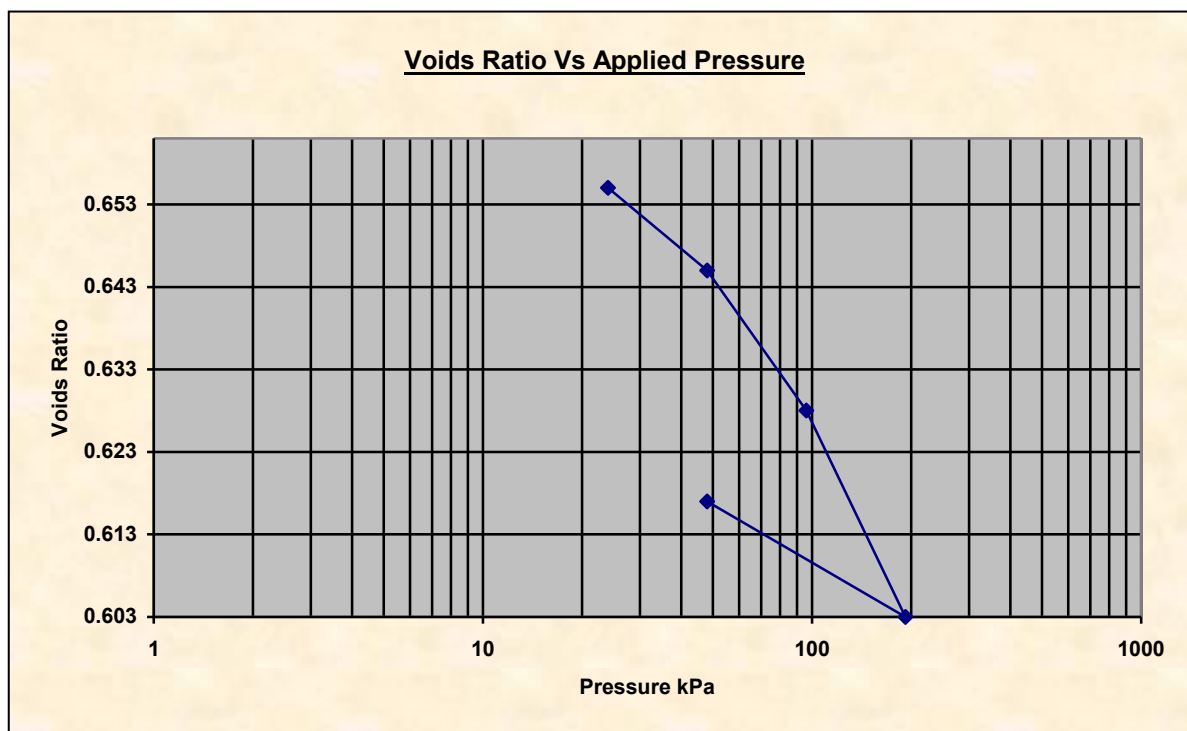
Laboratory Test Results**One Dimensional Consolidation Properties (Oedometer)**

Client	Sleater and Watson	Lab Ref	111 (WAC)
Project	New Modular Office, BAE Samlesbury	Job	8216A
Borehole	BH 4	Sample	111

Test Details			
Standard	BS 1377: Part 5 : 1990 : Clause 3	Particle Density	2.65 Mg/m ³
Sample Type	Undisturbed sample - open drive	Lab Temperature	21.0 deg.C
Sample Depth	1.20 m		
Sample Description	Brown with occasional grey gleying slightly gravelly CLAY with occasional roots. Gravel is subrounded fine to medium sandstone and siltstone.		
Variations from Procedure	None		

Specimen Details			
Specimen Reference	A	Description	As Above
Depth within Sample	0.00mm	Orientation within Sample	None
Specimen Mass	171.58 g	Condition	Natural Moisture
Specimen Height	20.00 mm	Preparation	Natural Undisturbed
Comments			

Test Apparatus			
Ring Number	3	Ring Diameter	75.00 mm
Ring Height	20.00 mm	Ring Weight	112.24 g
Lever Ratio	9.00 : 1		



Height of Solid Particles	12.04 mm	Swelling Pressure	0.0 kPa
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**SUB SURFACE**

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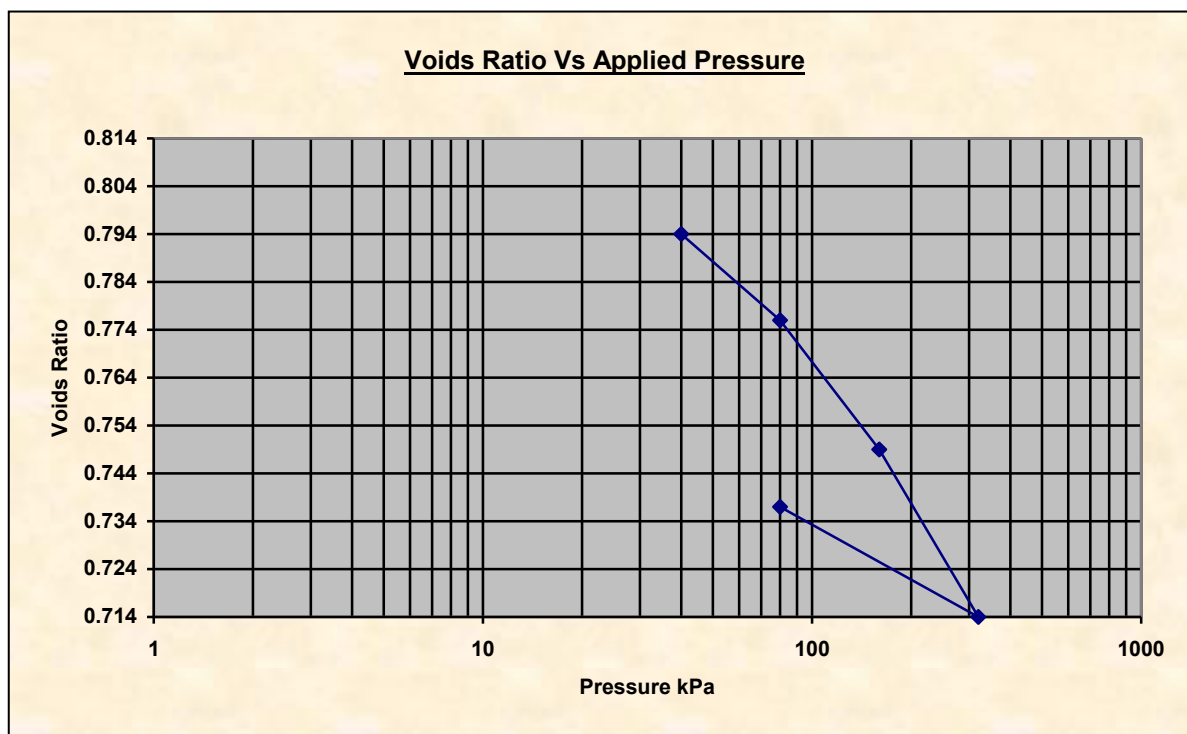
Laboratory Test Results**One Dimensional Consolidation Properties (Oedometer)**

Client	Sleater and Watson	Lab Ref	142 (WAC)
Project	New Modular Office, BAE Samlesbury	Job	8216A
Borehole	BH 5	Sample	142

Test Details			
Standard	BS 1377: Part 5 : 1990 : Clause 3	Particle Density	2.65 Mg/m ³
Sample Type	Undisturbed sample - open drive	Lab Temperature	21.0 deg.C
Sample Depth	2.00 m		
Sample Description	Brown with occasional grey gleying slightly gravelly CLAY. Gravel is subangular to subrounded sandstone, siltstone, mudstone and quartz.		
Variations from Procedure	None		

Specimen Details			
Specimen Reference	A	Description	As Above
Depth within Sample	0.00mm	Orientation within Sample	None
Specimen Mass	163.56 g	Condition	Natural Moisture
Specimen Height	20.00 mm	Preparation	Natural Undisturbed
Comments			

Test Apparatus			
Ring Number	4	Ring Diameter	75.00 mm
Ring Height	20.00 mm	Ring Weight	112.29 g
Lever Ratio	9.00 : 1		



Height of Solid Particles	11.03 mm	Swelling Pressure	0.0 kPa
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Laboratory Test Results**One Dimensional Consolidation Properties (Oedometer)**

Client	Sleater and Watson	Lab Ref	142 (WAC)
Project	New Modular Office, BAE Samlesbury	Job	8216A
Borehole	BH 5	Sample	142

Initial Moisture Content*	26.7 %	Final Moisture Content	24.9 %
Initial Bulk Density	1.85 Mg/m ³	Final Bulk Density	1.91 Mg/m ³
Initial Dry Density	1.46 Mg/m ³	Final Dry Density	1.53 Mg/m ³
Initial Void Ratio	0.8135	Final Void Ratio	0.7372
Initial Degree of Saturation	86.91%	Final Degree of Saturation	89.46 %

- Calculated from initial and dry weights of whole specimen

Pressure (Loading Stages)	Coefficient of Volume Compressibility (m_v)	Coefficient of Consolidation (c_v)
0.00		
40.0 kPa	0.27 m ² /MN	0.84 m ² /yr
80.0 kPa	0.24 m ² /MN	0.42 m ² /yr
160.0 kPa	0.19 m ² /MN	1.08 m ² /yr
320.0 kPa	0.13 m ² /MN	1.15 m ² /yr
80.0 kPa	0.06 m ² /MN	-----

Method of Time Fitting Used

Square Root Time

Tested By and Date:	WAC 06 Nov 25
Checked By and Date:	
Approved By and Date:	

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GEOTECHNICAL & GEOENVIRONMENTAL
SITE INVESTIGATION SPECIALISTS AND CONSULTANTS
3 Peel Street, Preston, Lancashire, PR2 2QS
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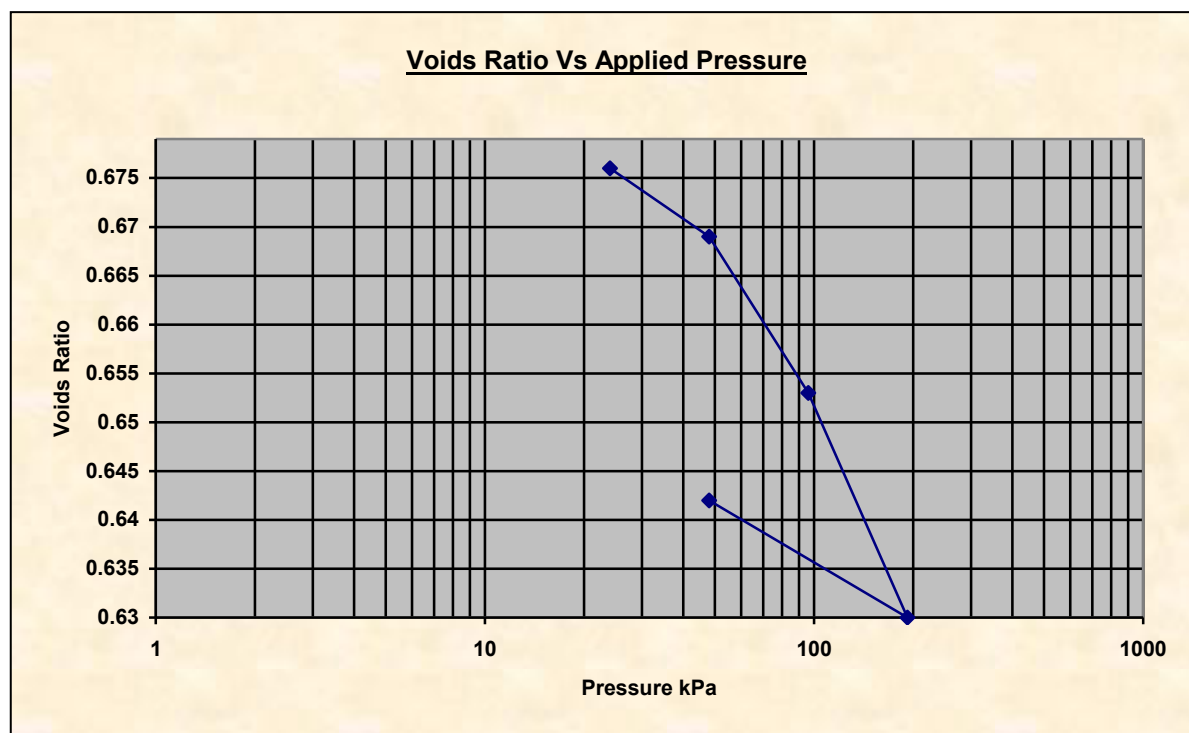
Laboratory Test Results**One Dimensional Consolidation Properties (Oedometer)**

Client	Sleater and Watson	Lab Ref	181 (WAC)
Project	New Modular Office, BAE Samlesbury	Job	8216A
Borehole	BH 6	Sample	181

Test Details			
Standard	BS 1377: Part 5 : 1990 : Clause 3	Particle Density	2.65 Mg/m ³
Sample Type	Undisturbed sample - open drive	Lab Temperature	21.0 deg.C
Sample Depth	1.20 m		
Sample Description	Brown with occasional grey gleying slightly gravelly CLAY with occasional roots. Gravel is subangular to subrounded fine to medium sandstone, mudstone and quartz.		
Variations from Procedure	None		

Specimen Details			
Specimen Reference	A	Description	As Above
Depth within Sample	0.00mm	Orientation within Sample	None
Specimen Mass	168.99 g	Condition	Natural Moisture
Specimen Height	20.00 mm	Preparation	Natural Undisturbed
Comments			

Test Apparatus			
Ring Number	5	Ring Diameter	75.00 mm
Ring Height	20.00 mm	Ring Weight	112.52 g
Lever Ratio	9.00 : 1		



Height of Solid Particles	11.91 mm	Swelling Pressure	0.0 kPa
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SUB SURFACE

SITE INVESTIGATION, GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS
3 Peel Street, Preston, PR2 2QS. Tel. (01772) 561135 Fax (01772) 204907

Laboratory Test Results

Site : NEW MODULAR OFFICES, FORMER 420 BUILDING, BAE SYSTEMS, SAMLESBURY AERODROME, BB2 7LF

Client : T CLARKE CONTRACTING LIMITED

Architect: WILSON MASON LLP

Job Number
8216A

Sheet
1 / 1

DETERMINATION OF THE pH VALUE AND THE SULPHATE CONTENT OF SOIL AND GROUNDWATER

Borehole/ Trial Pit	Depth (m)	Sample	Concentration of Soluble Sulphate			Percentage of sample passing 2mm Sieve %	pH	Classification	Laboratory Description
			Soil		Groundwater g /l				
			Total S04 %	S04 in 2:1 water:soil g /l					
BH01	2.00	D		0.04			8.7	DS-1	Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.
BH01	8.00	D		0.07			8.9	DS-1	Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.
BH02	0.23	B		0.20			9.8	DS-1	MADE GROUND: dark grey ashy clayey silty sandy fine to coarse gravel sized fragments of clinker and stone.
BH02	3.00	D		0.09			8.8	DS-1	Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.
BH02	17.50	D		0.11			9.2	DS-1	Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.
BH03	0.30	B		0.46			11.0	DS-1	MADE GROUND: dark grey ashy clayey silty sandy fine to coarse gravel sized fragments of clinker and stone.
BH03	1.20	D		0.13			9.7	DS-1	Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.
BH03	5.00	D		0.08			8.9	DS-1	Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.
BH03	16.50	D		0.16			9.3	DS-1	Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.
BH04	0.60	B		0.25			8.6	DS-1	MADE GROUND: dark brown slightly ashy slightly gravelly slightly sandy silty clay. Gravel sized fragments are fine to coarse sandstone and clinker.
BH04	6.50	D		0.07			8.9	DS-1	Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.
BH05	1.20	D		0.06			9.2	DS-1	Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.
BH05	9.50	D		0.06			9.0	DS-1	Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.
BH05	18.00	D		0.07			9.2	DS-1	Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.
BH06	0.30	B		0.11			10.2	DS-1	MADE GROUND: dark brown slightly ashy slightly gravelly slightly sandy silty clay. Gravel sized fragments are fine to coarse sandstone and clinker.
BH06	2.00	D		0.04			8.7	DS-1	Brown slightly sandy silty CLAY.
BH06	11.00	D		0.01			9.1	DS-1	Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.

Method of Preparation : BS 1377:PART 1:1990:7.5 Preparation of soil for chemical tests BS 1377:PART 3:1990:5.2, 5.3, 5.4 & 9.4

Method of Test : Laboratory in-house methods based on BS1377: Part 3 for contents of water soluble sulphate, total sulphate and pH. Laboratory in-house method based on MEWAM (Environment Agency, 2006) for total sulphur

Remarks : Classification relates to Design Sulphate Class of BRE Special Digest 1 (2005)

**SUB SURFACE**

SITE INVESTIGATION AND SPECIALIST GEOTECHNICAL CONSULTANTS
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BRE Special Digest 1

AGGRESSIVE CHEMICAL ENVIRONMENT FOR CONCRETE (ACEC) SITE CLASSIFICATION.**Table C1 Aggressive Chemical Environment for Concrete (ACEC) classification for natural ground locations ***

Sulfate Design Sulfate Class for location	2:1 water/soil extract ^b	Groundwater	Total potential sulfate ^c	Groundwater Static water	Mobile water	ACEC Class for location
1	2 (SO ₄ mg/l)	3 (SO ₄ mg/l)	4 (SO ₄ %)	5 (pH)	6 (pH)	7
DS-1	< 500	< 400	< 0.24	≥ 2.5	> 5.5 ^d 2.5–5.5	AC-1s AC-1 ^d AC-2z
DS-2	500–1500	400–1400	0.24–0.6	> 3.5 2.5–3.5	> 5.5 2.5–5.5	AC-1s AC-2 AC-2s AC-3z
DS-3	1600–3000	1500–3000	0.7–1.2	> 3.5 2.5–3.5	> 5.5 2.5–5.5	AC-2s AC-3 AC-3s AC-4
DS-4	3100–6000	3100–6000	1.3–2.4	> 3.5 2.5–3.5	> 5.5 2.5–5.5	AC-3s AC-4 AC-4s AC-5
DS-5	> 6000	> 6000	> 2.4	> 3.5 2.5–3.5	≥ 2.5	AC-4s AC-5

Notes

- a Applies to locations on sites that comprise either undisturbed ground that is in its natural state (ie is not brownfield – Table C2) or clean fill derived from such ground.
b The limits of Design Sulfate Classes based on 2:1 water/soil extracts have been lowered relative to previous Digests (Box C7).
c Applies only to locations where concrete will be exposed to sulfate ions (SO₄) which may result from the oxidation of sulfides (eg pyrite) following ground disturbance (Appendix A1 and Box C8).
d For flowing water that is potentially aggressive to concrete owing to high purity or an aggressive carbon dioxide level greater than 15 mg/l (Section C2.2.3), increase the ACEC Class to AC-2z.

Explanation of suffix symbols to ACEC Class

- Suffix 's' indicates that the water has been classified as static.
- Concrete placed in ACEC Classes that include the suffix 'z' primarily have to resist acid conditions and may be made with any of the cements or combinations listed in Table D2 on page 42.

Table C2 Aggressive Chemical Environment for Concrete (ACEC) classification for brownfield locations *

Sulfate and magnesium					Groundwater		ACEC	
Design Sulfate Class for location	2:1 water/soil extract ^b		Groundwater		Total potential sulfate ^c	Static water	Mobile water	Class for location
1	2 (SO ₄ mg/l)	3 (Mg mg/l)	4 (SO ₄ mg/l)	5 (Mg mg/l)	6 (SO ₄ %)	7 (pH) ^d	8 (pH) ^d	9
DS-1	< 500		< 400		< 0.24	≥ 2.5	> 6.5 ^d 5.5–6.5 4.5–5.5 2.5–4.5	AC-1s AC-1 AC-2z AC-3z AC-4z
DS-2	500–1500		400–1400		0.24–0.6	> 5.5 2.5–5.5	> 6.5 5.5–6.5 4.5–5.5 2.5–4.5	AC-1s AC-2 AC-2s AC-3z AC-4z AC-5z
DS-3	1600–3000		1500–3000		0.7–1.2	> 5.5 2.5–5.5	> 6.5 5.5–6.5 2.5–5.5	AC-2s AC-3 AC-3s AC-4 AC-5
DS-4	3100–6000	≤ 1200	3100–6000	≤ 1000	1.3–2.4	> 5.5 2.5–5.5	> 6.5 2.5–6.5	AC-3s AC-4 AC-4s AC-5
DS-4m	3100–6000	> 1200 ^a	3100–6000	> 1000 ^a	1.3–2.4	> 5.5 2.5–5.5	> 6.5 2.5–6.5	AC-3s AC-4m AC-4ms AC-5m
DS-5	> 6000	≤ 1200	> 6000	≤ 1000	> 2.4	> 5.5 2.5–5.5	≥ 2.5	AC-4s AC-5
DS-5m	> 6000	> 1200 ^a	> 6000	> 1000 ^a	> 2.4	> 5.5 2.5–5.5	≥ 2.5	AC-4ms AC-5m

Notes

- a Brownfield locations are those sites, or parts of sites, that might contain chemical residues produced by or associated with industrial production (Section C5.1.3).
b The limits of Design Sulfate Classes based on 2:1 water/soil extracts have been lowered from previous Digests (Box C7).
c Applies only to locations where concrete will be exposed to sulfate ions (SO₄), which may result from the oxidation of sulfides such as pyrite, following ground disturbance (Appendix A1 and Box C8).
d An additional account is taken of hydrochloric and nitric acids by adjustment to sulfate content (Section C5.1.3).
e The limit on water-soluble magnesium does not apply to brackish groundwater (chloride content between 12 000 mg/l and 17 000 mg/l). This allows 'm' to be omitted from the relevant ACEC classification. Seawater (chloride content about 18 000 mg/l) and stronger brines are not covered by this table.

Explanation of suffix symbols to ACEC Class

- Suffix 's' indicates that the water has been classified as static.
- Concrete placed in ACEC Classes that include the suffix 'z' have primarily to resist acid conditions and may be made with any of the cements in Table D2 on page 42.
- Suffix 'm' relates to the higher levels of magnesium in Design Sulfate Classes 4 and 5.

CONTAMINATION ANALYSIS RESULTS

Certificate of Analysis

Certificate Number 25-24053

Issued: 28-Oct-25

Client Sub Surface Laboratories Ltd
3 Peel Street
Preston
Lancashire
PR2 2QS

Our Reference 25-24053

Client Reference ~ 8216A

Order No ~ (not supplied)

Contract Title ~ New Modular Offices,BAE,Samlesbury

Description 25 Soil samples, 3 Leachate prepared by DETS samples.

Date Received 17-Oct-25

Date Started 17-Oct-25

Date Completed 28-Oct-25

Test Procedures Identified by prefix DETSn (details on request).

Notes Opinions and interpretations are outside the laboratory's scope of ISO 17025 accreditation. 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 except in full, without the prior written approval of the laboratory.

Approved By



Louise Cook
Contracts Manager



2139

Sample Deviations present. See Deviation Table Section for details.

Normec DETS Limited

Unit 2, Park Road Industrial Estate South, Consett, Co Durham, DH8 5PY
Tel: 01207 582333 • email: info-dets@normecgroup.com • normecdets.com

Summary of Chemical Analysis

Soil Samples

Our Ref 25-24053

Client Ref ~ 8216A

Contract Title ~ New Modular Offices,BAE,Samlesbury

Lab No	2584681	2584682	2584683	2584684	2584685	2584686
Sample ID ~	BH1	BH1	BH1	BH1	BH2	BH2
Depth ~	0.26-0.35	0.35-0.75	2.00-2.45	8.00-8.45	0.23-0.40	0.60-1.20
Other ID ~						
Sample Type ~	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sampling Date ~	08/10/2025	08/10/2025	08/10/2025	08/10/2025	08/10/2025	08/10/2025
Sampling Time ~	n/s	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units						
Asbestos Quantification (Gravimetric)	DETSC 1102	0.001	%						
Preparation									
Moisture Content	DETSC 1004	0.1	%	19	17			22	14
Metals									
Arsenic	DETSC 2301#	0.2	mg/kg	11	6.2			16	1.1
Boron, Water Soluble (2.5:1)	DETSC 2311#	0.2	mg/kg	0.7	0.7			0.7	0.5
Cadmium	DETSC 2301#	0.1	mg/kg	< 0.1	< 0.1			0.2	0.2
Chromium	DETSC 2301#	0.15	mg/kg	11	34			25	8.9
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0	< 1.0			< 1.0	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	58	31			75	11
Lead	DETSC 2301#	0.3	mg/kg	14	12			18	6.9
Mercury	DETSC 2325#	0.05	mg/kg	< 0.05	< 0.05			< 0.05	< 0.05
Molybdenum	DETSC 2301#	0.4	mg/kg	8.3	1.7			8.2	2.2
Nickel	DETSC 2301#	1	mg/kg	33	36			46	7.2
Selenium	DETSC 2301#	0.5	mg/kg	< 0.5	< 0.5			1.0	< 0.5
Zinc	DETSC 2301#	1	mg/kg	38	49			54	8.3
Inorganics									
pH	DETSC 2008#		pH	10.1	8.4	8.7	8.9	9.8	8.8
Cyanide, Total	DETSC 2130#	0.1	mg/kg	0.2	< 0.1			< 0.1	< 0.1
Organic matter	DETSC 2002#	0.1	%	1.4	0.8			2.3	0.7
Sulphate Aqueous Extract as SO4 (2:1)	DETSC 2076#	10	mg/l			41	65	200	
Sulphide	DETSC 2024*	10	mg/kg	80	100			140	12
Sulphate as SO4, Total	DETSC 2321#	0.01	%	0.10	0.04			0.09	0.03
Petroleum Hydrocarbons									
Aliphatic C5-C6: HS_1D_AL	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01			< 0.01	< 0.01
Aliphatic C6-C8: HS_1D_AL	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01			< 0.01	< 0.01
Aliphatic C8-C10: HS_1D_AL	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01			< 0.01	< 0.01
Aliphatic >EC10-EC12: EH_2D_AL	DETSC 3521#	1.5	mg/kg	< 1.50	< 1.50			2.24	< 1.50
Aliphatic >EC12-EC16: EH_2D_AL	DETSC 3521#	1.2	mg/kg	< 1.20	< 1.20			< 1.20	< 1.20
Aliphatic >EC16-EC21: EH_2D_AL	DETSC 3521#	1.5	mg/kg	2.36	< 1.50			< 1.50	< 1.50
Aliphatic >EC21-EC35: EH_2D_AL	DETSC 3521#	3.4	mg/kg	5.39	< 3.40			15.06	< 3.40
Aliphatic >EC35-EC40: EH_2D_AL	DETSC 3521*	3.4	mg/kg	< 3.40	< 3.40			13.02	< 3.40
Aliphatic >EC35-EC44: EH_2D_AL	DETSC 3521*	3.4	mg/kg	< 3.40	< 3.40			17.88	< 3.40
Aliphatic >EC40-EC44: EH_2D_AL	DETSC 3521*	3.4	mg/kg	< 3.40	< 3.40			4.86	< 3.40
Aliphatic >EC10-EC44: EH_2D_AL	DETSC 3521*	10	mg/kg	< 10.00	< 10.00			35.18	< 10.00
Aliphatic C5-C44: EH_2D+HS_1D_AL	DETSC 3521*	10	mg/kg	< 10.00	< 10.00			35.18	< 10.00
Aromatic C5-C7: HS_1D_AR	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01			< 0.01	< 0.01
Aromatic C7-C8: HS_1D_AR	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01			< 0.01	< 0.01
Aromatic C8-C10: HS_1D_AR	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01			< 0.01	< 0.01
Aromatic >EC10-EC12: EH_2D_AR	DETSC 3521#	0.9	mg/kg	< 0.90	< 0.90			< 0.90	< 0.90
Aromatic >EC12-EC16: EH_2D_AR	DETSC 3521#	0.5	mg/kg	< 0.50	< 0.50			< 0.50	< 0.50
Aromatic >EC16-EC21: EH_2D_AR	DETSC 3521#	0.6	mg/kg	7.02	< 0.60			1.01	< 0.60

Summary of Chemical Analysis

Soil Samples

Our Ref 25-24053

Client Ref ~ 8216A

Contract Title ~ New Modular Offices,BAE,Samlesbury

Lab No	2584681	2584682	2584683	2584684	2584685	2584686
Sample ID ~	BH1	BH1	BH1	BH1	BH2	BH2
Depth ~	0.26-0.35	0.35-0.75	2.00-2.45	8.00-8.45	0.23-0.40	0.60-1.20
Other ID ~						
Sample Type ~	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sampling Date ~	08/10/2025	08/10/2025	08/10/2025	08/10/2025	08/10/2025	08/10/2025
Sampling Time ~	n/s	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units						
Aromatic >EC21-EC35: EH_2D_AR	DETSC 3521#	1.4	mg/kg	102.6	< 1.40			9.19	< 1.40
Aromatic >EC35-EC40: EH_2D_AR	DETSC 3521*	1.4	mg/kg	68.35	< 1.40			2.26	< 1.40
Aromatic >EC35-EC44: EH_2D_AR	DETSC 3521*	1.4	mg/kg	68.35	< 1.40			2.26	< 1.40
Aromatic >EC40-EC44: EH_2D_AR	DETSC 3521*	1.4	mg/kg	< 1.40	< 1.40			< 1.40	< 1.40
Aromatic >EC10-EC44: EH_2D_AR	DETSC 3521*	10	mg/kg	177.9	< 10.00			12.47	< 10.00
Aromatic C5-C44: EH_2D+HS_1D_AR	DETSC 3521*	10	mg/kg	177.9	< 10.00			12.47	< 10.00
TPH Ali/Aro C5-C44: EH_2D+HS_1D_Total	DETSC 3521*	10	mg/kg	177.9	< 10.00			47.64	< 10.00
Benzene	DETSC 3321#	0.01	mg/kg	< 0.01	< 0.01			< 0.01	< 0.01
Ethylbenzene	DETSC 3321#	0.01	mg/kg	< 0.01	< 0.01			< 0.01	< 0.01
Toluene	DETSC 3321#	0.01	mg/kg	< 0.01	< 0.01			< 0.01	< 0.01
m+p Xylene	DETSC 3321#	0.01	mg/kg	< 0.01	< 0.01			< 0.01	< 0.01
o Xylene	DETSC 3321#	0.01	mg/kg	< 0.01	< 0.01			< 0.01	< 0.01
MTBE	DETSC 3321	0.01	mg/kg	< 0.01	< 0.01			< 0.01	< 0.01
PAHs									
Naphthalene	DETSC 3301	0.1	mg/kg	< 1.00	< 0.10			< 0.10	< 0.10
Acenaphthylene	DETSC 3301	0.1	mg/kg	< 1.00	< 0.10			< 0.10	< 0.10
Acenaphthene	DETSC 3301	0.1	mg/kg	< 1.00	< 0.10			< 0.10	< 0.10
Fluorene	DETSC 3301	0.1	mg/kg	< 1.00	< 0.10			< 0.10	< 0.10
Phenanthrene	DETSC 3301	0.1	mg/kg	< 1.00	0.21			0.12	0.27
Anthracene	DETSC 3301	0.1	mg/kg	< 1.00	< 0.10			< 0.10	0.10
Fluoranthene	DETSC 3301	0.1	mg/kg	< 1.00	0.31			0.25	0.35
Pyrene	DETSC 3301	0.1	mg/kg	< 1.00	0.33			0.21	0.21
Benzo(a)anthracene	DETSC 3301	0.1	mg/kg	< 1.00	< 0.10			0.13	0.25
Chrysene	DETSC 3301	0.1	mg/kg	< 1.00	< 0.10			0.12	< 0.10
Benzo(b)fluoranthene	DETSC 3301	0.1	mg/kg	< 1.00	0.20			< 0.10	0.21
Benzo(k)fluoranthene	DETSC 3301	0.1	mg/kg	< 1.00	0.18			< 0.10	< 0.10
Benzo(a)pyrene	DETSC 3301	0.1	mg/kg	< 1.00	0.18			0.10	0.12
Indeno(1,2,3-c,d)pyrene	DETSC 3301	0.1	mg/kg	< 1.00	0.22			< 0.10	< 0.10
Dibenzo(a,h)anthracene	DETSC 3301	0.1	mg/kg	< 1.00	0.11			< 0.10	< 0.10
Benzo(g,h,i)perylene	DETSC 3301	0.1	mg/kg	< 1.00	0.30			< 0.10	< 0.10
PAH 16 Total	DETSC 3301	1.6	mg/kg	20	1.9			< 1.6	< 1.6
PCBs									
PCB 28 + PCB 31	DETSC 3401#	0.01	mg/kg						
PCB 52	DETSC 3401#	0.01	mg/kg						
PCB 101	DETSC 3401#	0.01	mg/kg						
PCB 118	DETSC 3401#	0.01	mg/kg						
PCB 153	DETSC 3401#	0.01	mg/kg						
PCB 138	DETSC 3401#	0.01	mg/kg						
PCB 180	DETSC 3401#	0.01	mg/kg						
PCB 7 Total	DETSC 3401#	0.01	mg/kg						
Phenols									
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg	< 0.3	< 0.3			< 0.3	< 0.3

Summary of Chemical Analysis

Soil Samples

Our Ref 25-24053

Client Ref ~ 8216A

Contract Title ~ New Modular Offices,BAE,Samlesbury

Lab No	2584687	2584688	2584689	2584690	2584691	2584692
Sample ID ~	BH2	BH2	BH3	BH3	BH3	BH3
Depth ~	3.00-3.45	17.50	0.30-0.60	0.60-1.00	1.20-1.65	5.00-5.45
Other ID ~						
Sample Type ~	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sampling Date ~	08/10/2025	08/10/2025	08/10/2025	08/10/2025	08/10/2025	08/10/2025
Sampling Time ~	n/s	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units						
Asbestos Quantification (Gravimetric)	DETSC 1102	0.001	%						
Preparation									
Moisture Content	DETSC 1004	0.1	%			15	15		
Metals									
Arsenic	DETSC 2301#	0.2	mg/kg			0.8	1.1		
Boron, Water Soluble (2.5:1)	DETSC 2311#	0.2	mg/kg			0.5	0.4		
Cadmium	DETSC 2301#	0.1	mg/kg			0.1	0.1		
Chromium	DETSC 2301#	0.15	mg/kg			6.7	4.0		
Chromium, Hexavalent	DETSC 2204*	1	mg/kg			< 1.0	< 1.0		
Copper	DETSC 2301#	0.2	mg/kg			6.6	8.0		
Lead	DETSC 2301#	0.3	mg/kg			4.3	4.6		
Mercury	DETSC 2325#	0.05	mg/kg			< 0.05	< 0.05		
Molybdenum	DETSC 2301#	0.4	mg/kg			0.6	0.7		
Nickel	DETSC 2301#	1	mg/kg			5.7	3.9		
Selenium	DETSC 2301#	0.5	mg/kg			< 0.5	< 0.5		
Zinc	DETSC 2301#	1	mg/kg			6.3	6.5		
Inorganics									
pH	DETSC 2008#		pH	8.8	9.2	11.0	8.9	9.7	8.9
Cyanide, Total	DETSC 2130#	0.1	mg/kg			1.1	< 0.1		
Organic matter	DETSC 2002#	0.1	%			2.4	0.3		
Sulphate Aqueous Extract as SO4 (2:1)	DETSC 2076#	10	mg/l	90	110	460		130	82
Sulphide	DETSC 2024*	10	mg/kg			210	33		
Sulphate as SO4, Total	DETSC 2321#	0.01	%			0.15	0.02		
Petroleum Hydrocarbons									
Aliphatic C5-C6: HS_1D_AL	DETSC 3321*	0.01	mg/kg			< 0.01	< 0.01		
Aliphatic C6-C8: HS_1D_AL	DETSC 3321*	0.01	mg/kg			< 0.01	< 0.01		
Aliphatic C8-C10: HS_1D_AL	DETSC 3321*	0.01	mg/kg			< 0.01	< 0.01		
Aliphatic >EC10-EC12: EH_2D_AL	DETSC 3521#	1.5	mg/kg			2.00	< 1.50		
Aliphatic >EC12-EC16: EH_2D_AL	DETSC 3521#	1.2	mg/kg			< 1.20	< 1.20		
Aliphatic >EC16-EC21: EH_2D_AL	DETSC 3521#	1.5	mg/kg			< 1.50	< 1.50		
Aliphatic >EC21-EC35: EH_2D_AL	DETSC 3521#	3.4	mg/kg			< 3.40	< 3.40		
Aliphatic >EC35-EC40: EH_2D_AL	DETSC 3521*	3.4	mg/kg			< 3.40	< 3.40		
Aliphatic >EC35-EC44: EH_2D_AL	DETSC 3521*	3.4	mg/kg			< 3.40	< 3.40		
Aliphatic >EC40-EC44: EH_2D_AL	DETSC 3521*	3.4	mg/kg			< 3.40	< 3.40		
Aliphatic >EC10-EC44: EH_2D_AL	DETSC 3521*	10	mg/kg			< 10.00	< 10.00		
Aliphatic C5-C44: EH_2D+HS_1D_AL	DETSC 3521*	10	mg/kg			< 10.00	< 10.00		
Aromatic C5-C7: HS_1D_AR	DETSC 3321*	0.01	mg/kg			< 0.01	< 0.01		
Aromatic C7-C8: HS_1D_AR	DETSC 3321*	0.01	mg/kg			< 0.01	< 0.01		
Aromatic C8-C10: HS_1D_AR	DETSC 3321*	0.01	mg/kg			< 0.01	< 0.01		
Aromatic >EC10-EC12: EH_2D_AR	DETSC 3521#	0.9	mg/kg			< 0.90	< 0.90		
Aromatic >EC12-EC16: EH_2D_AR	DETSC 3521#	0.5	mg/kg			1.13	< 0.50		
Aromatic >EC16-EC21: EH_2D_AR	DETSC 3521#	0.6	mg/kg			22.81	< 0.60		

Summary of Chemical Analysis

Soil Samples

Our Ref 25-24053

Client Ref ~ 8216A

Contract Title ~ New Modular Offices,BAE,Samlesbury

Lab No	2584687	2584688	2584689	2584690	2584691	2584692
Sample ID ~	BH2	BH2	BH3	BH3	BH3	BH3
Depth ~	3.00-3.45	17.50	0.30-0.60	0.60-1.00	1.20-1.65	5.00-5.45
Other ID ~						
Sample Type ~	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sampling Date ~	08/10/2025	08/10/2025	08/10/2025	08/10/2025	08/10/2025	08/10/2025
Sampling Time ~	n/s	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units						
Aromatic >EC21-EC35: EH_2D_AR	DETSC 3521#	1.4	mg/kg			151.9	< 1.40		
Aromatic >EC35-EC40: EH_2D_AR	DETSC 3521*	1.4	mg/kg			95.74	< 1.40		
Aromatic >EC35-EC44: EH_2D_AR	DETSC 3521*	1.4	mg/kg			112.0	< 1.40		
Aromatic >EC40-EC44: EH_2D_AR	DETSC 3521*	1.4	mg/kg			16.30	< 1.40		
Aromatic >EC10-EC44: EH_2D_AR	DETSC 3521*	10	mg/kg			287.9	< 10.00		
Aromatic C5-C44: EH_2D+HS_1D_AR	DETSC 3521*	10	mg/kg			287.9	< 10.00		
TPH Ali/Aro C5-C44: EH_2D+HS_1D_Total	DETSC 3521*	10	mg/kg			287.9	< 10.00		
Benzene	DETSC 3321#	0.01	mg/kg			< 0.01	< 0.01		
Ethylbenzene	DETSC 3321#	0.01	mg/kg			< 0.01	< 0.01		
Toluene	DETSC 3321#	0.01	mg/kg			< 0.01	< 0.01		
m+p Xylene	DETSC 3321#	0.01	mg/kg			< 0.01	< 0.01		
o Xylene	DETSC 3321#	0.01	mg/kg			< 0.01	< 0.01		
MTBE	DETSC 3321	0.01	mg/kg			< 0.01	< 0.01		
PAHs									
Naphthalene	DETSC 3301	0.1	mg/kg			0.14	< 0.10		
Acenaphthylene	DETSC 3301	0.1	mg/kg			0.36	< 0.10		
Acenaphthene	DETSC 3301	0.1	mg/kg			< 0.10	< 0.10		
Fluorene	DETSC 3301	0.1	mg/kg			0.21	< 0.10		
Phenanthrene	DETSC 3301	0.1	mg/kg			0.84	< 0.10		
Anthracene	DETSC 3301	0.1	mg/kg			0.27	< 0.10		
Fluoranthene	DETSC 3301	0.1	mg/kg			2.4	< 0.10		
Pyrene	DETSC 3301	0.1	mg/kg			2.3	< 0.10		
Benzo(a)anthracene	DETSC 3301	0.1	mg/kg			0.91	< 0.10		
Chrysene	DETSC 3301	0.1	mg/kg			0.60	< 0.10		
Benzo(b)fluoranthene	DETSC 3301	0.1	mg/kg			0.90	< 0.10		
Benzo(k)fluoranthene	DETSC 3301	0.1	mg/kg			0.56	< 0.10		
Benzo(a)pyrene	DETSC 3301	0.1	mg/kg			1.4	< 0.10		
Indeno(1,2,3-c,d)pyrene	DETSC 3301	0.1	mg/kg			1.1	< 0.10		
Dibenzo(a,h)anthracene	DETSC 3301	0.1	mg/kg			0.10	< 0.10		
Benzo(g,h,i)perylene	DETSC 3301	0.1	mg/kg			1.4	< 0.10		
PAH 16 Total	DETSC 3301	1.6	mg/kg			13	< 1.6		
PCBs									
PCB 28 + PCB 31	DETSC 3401#	0.01	mg/kg						
PCB 52	DETSC 3401#	0.01	mg/kg						
PCB 101	DETSC 3401#	0.01	mg/kg						
PCB 118	DETSC 3401#	0.01	mg/kg						
PCB 153	DETSC 3401#	0.01	mg/kg						
PCB 138	DETSC 3401#	0.01	mg/kg						
PCB 180	DETSC 3401#	0.01	mg/kg						
PCB 7 Total	DETSC 3401#	0.01	mg/kg						
Phenols									
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg			< 0.3	< 0.3		

Summary of Chemical Analysis

Soil Samples

Our Ref 25-24053

Client Ref ~ 8216A

Contract Title ~ New Modular Offices,BAE,Samlesbury

Lab No	2584693	2584694	2584695	2584696	2584697	2584698
Sample ID ~	BH3	BH4	BH4	BH4	BH5	BH5
Depth ~	16.50-16.95	0.30-0.60	0.60-1.00	6.50-6.95	0.30-0.60	0.60-1.20
Other ID ~						
Sample Type ~	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sampling Date ~	08/10/2025	08/10/2025	08/10/2025	08/10/2025	08/10/2025	08/10/2025
Sampling Time ~	n/s	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units						
Asbestos Quantification (Gravimetric)	DETSC 1102	0.001	%		< 0.001				
Preparation									
Moisture Content	DETSC 1004	0.1	%		29	20		23	16
Metals									
Arsenic	DETSC 2301#	0.2	mg/kg		0.8	2.1		1.7	0.5
Boron, Water Soluble (2.5:1)	DETSC 2311#	0.2	mg/kg		0.6	0.4		0.8	0.6
Cadmium	DETSC 2301#	0.1	mg/kg		< 0.1	< 0.1		< 0.1	< 0.1
Chromium	DETSC 2301#	0.15	mg/kg		3.6	2.9		3.1	1.8
Chromium, Hexavalent	DETSC 2204*	1	mg/kg		< 1.0	< 1.0		< 1.0	< 1.0
Copper	DETSC 2301#	0.2	mg/kg		6.4	8.3		6.5	3.4
Lead	DETSC 2301#	0.3	mg/kg		3.7	2.8		2.4	1.6
Mercury	DETSC 2325#	0.05	mg/kg		< 0.05	< 0.05		< 0.05	< 0.05
Molybdenum	DETSC 2301#	0.4	mg/kg		0.5	0.7		0.6	< 0.4
Nickel	DETSC 2301#	1	mg/kg		3.7	5.4		4.7	2.4
Selenium	DETSC 2301#	0.5	mg/kg		< 0.5	< 0.5		< 0.5	< 0.5
Zinc	DETSC 2301#	1	mg/kg		7.9	6.4		5.1	2.4
Inorganics									
pH	DETSC 2008#		pH	9.3	10.4	8.6	8.9	11.3	9.0
Cyanide, Total	DETSC 2130#	0.1	mg/kg		< 0.1	0.2		0.3	0.6
Organic matter	DETSC 2002#	0.1	%		3.2	0.9		1.9	0.8
Sulphate Aqueous Extract as SO4 (2:1)	DETSC 2076#	10	mg/l	160		250	68		
Sulphide	DETSC 2024*	10	mg/kg		120	68		55	40
Sulphate as SO4, Total	DETSC 2321#	0.01	%		0.10	0.09		0.18	0.04
Petroleum Hydrocarbons									
Aliphatic C5-C6: HS_1D_AL	DETSC 3321*	0.01	mg/kg		< 0.01	< 0.01		< 0.01	< 0.01
Aliphatic C6-C8: HS_1D_AL	DETSC 3321*	0.01	mg/kg		< 0.01	< 0.01		< 0.01	< 0.01
Aliphatic C8-C10: HS_1D_AL	DETSC 3321*	0.01	mg/kg		< 0.01	< 0.01		< 0.01	< 0.01
Aliphatic >EC10-EC12: EH_2D_AL	DETSC 3521#	1.5	mg/kg		< 1.50	< 1.50		< 1.50	< 1.50
Aliphatic >EC12-EC16: EH_2D_AL	DETSC 3521#	1.2	mg/kg		< 1.20	< 1.20		< 1.20	< 1.20
Aliphatic >EC16-EC21: EH_2D_AL	DETSC 3521#	1.5	mg/kg		6.52	< 1.50		< 1.50	< 1.50
Aliphatic >EC21-EC35: EH_2D_AL	DETSC 3521#	3.4	mg/kg		62.03	< 3.40		11.90	< 3.40
Aliphatic >EC35-EC40: EH_2D_AL	DETSC 3521*	3.4	mg/kg		64.20	< 3.40		10.05	< 3.40
Aliphatic >EC35-EC44: EH_2D_AL	DETSC 3521*	3.4	mg/kg		84.38	< 3.40		15.58	< 3.40
Aliphatic >EC40-EC44: EH_2D_AL	DETSC 3521*	3.4	mg/kg		20.19	< 3.40		5.54	< 3.40
Aliphatic >EC10-EC44: EH_2D_AL	DETSC 3521*	10	mg/kg		152.9	< 10.00		27.48	< 10.00
Aliphatic C5-C44: EH_2D+HS_1D_AL	DETSC 3521*	10	mg/kg		152.9	< 10.00		27.48	< 10.00
Aromatic C5-C7: HS_1D_AR	DETSC 3321*	0.01	mg/kg		< 0.01	< 0.01		< 0.01	< 0.01
Aromatic C7-C8: HS_1D_AR	DETSC 3321*	0.01	mg/kg		< 0.01	< 0.01		< 0.01	< 0.01
Aromatic C8-C10: HS_1D_AR	DETSC 3321*	0.01	mg/kg		< 0.01	< 0.01		< 0.01	< 0.01
Aromatic >EC10-EC12: EH_2D_AR	DETSC 3521#	0.9	mg/kg		< 0.90	< 0.90		< 0.90	< 0.90
Aromatic >EC12-EC16: EH_2D_AR	DETSC 3521#	0.5	mg/kg		< 0.50	< 0.50		< 0.50	< 0.50
Aromatic >EC16-EC21: EH_2D_AR	DETSC 3521#	0.6	mg/kg		1.74	1.23		2.08	< 0.60

Summary of Chemical Analysis

Soil Samples

Our Ref 25-24053

Client Ref ~ 8216A

Contract Title ~ New Modular Offices,BAE,Samlesbury

Lab No	2584693	2584694	2584695	2584696	2584697	2584698
Sample ID ~	BH3	BH4	BH4	BH4	BH5	BH5
Depth ~	16.50-16.95	0.30-0.60	0.60-1.00	6.50-6.95	0.30-0.60	0.60-1.20
Other ID ~						
Sample Type ~	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sampling Date ~	08/10/2025	08/10/2025	08/10/2025	08/10/2025	08/10/2025	08/10/2025
Sampling Time ~	n/s	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units						
Aromatic >EC21-EC35: EH_2D_AR	DETSC 3521#	1.4	mg/kg		69.65	< 1.40		6.61	< 1.40
Aromatic >EC35-EC40: EH_2D_AR	DETSC 3521*	1.4	mg/kg		78.10	< 1.40		< 1.40	< 1.40
Aromatic >EC35-EC44: EH_2D_AR	DETSC 3521*	1.4	mg/kg		78.10	< 1.40		< 1.40	< 1.40
Aromatic >EC40-EC44: EH_2D_AR	DETSC 3521*	1.4	mg/kg		< 1.40	< 1.40		< 1.40	< 1.40
Aromatic >EC10-EC44: EH_2D_AR	DETSC 3521*	10	mg/kg		149.5	< 10.00		< 10.00	< 10.00
Aromatic C5-C44: EH_2D+HS_1D_AR	DETSC 3521*	10	mg/kg		149.5	< 10.00		< 10.00	< 10.00
TPH Ali/Aro C5-C44: EH_2D+HS_1D_Total	DETSC 3521*	10	mg/kg		302.4	< 10.00		27.48	< 10.00
Benzene	DETSC 3321#	0.01	mg/kg		< 0.01	< 0.01		< 0.01	< 0.01
Ethylbenzene	DETSC 3321#	0.01	mg/kg		< 0.01	< 0.01		< 0.01	< 0.01
Toluene	DETSC 3321#	0.01	mg/kg		< 0.01	< 0.01		< 0.01	< 0.01
m+p Xylene	DETSC 3321#	0.01	mg/kg		< 0.01	< 0.01		< 0.01	< 0.01
o Xylene	DETSC 3321#	0.01	mg/kg		< 0.01	< 0.01		< 0.01	< 0.01
MTBE	DETSC 3321	0.01	mg/kg		< 0.01	< 0.01		< 0.01	< 0.01
PAHs									
Naphthalene	DETSC 3301	0.1	mg/kg		< 0.10	< 0.10		< 0.10	< 0.10
Acenaphthylene	DETSC 3301	0.1	mg/kg		< 0.10	< 0.10		< 0.10	< 0.10
Acenaphthene	DETSC 3301	0.1	mg/kg		< 0.10	< 0.10		< 0.10	< 0.10
Fluorene	DETSC 3301	0.1	mg/kg		< 0.10	< 0.10		< 0.10	< 0.10
Phenanthrene	DETSC 3301	0.1	mg/kg		0.23	0.13		< 0.10	< 0.10
Anthracene	DETSC 3301	0.1	mg/kg		< 0.10	< 0.10		< 0.10	< 0.10
Fluoranthene	DETSC 3301	0.1	mg/kg		0.56	0.22		0.29	< 0.10
Pyrene	DETSC 3301	0.1	mg/kg		0.37	0.16		0.30	< 0.10
Benzo(a)anthracene	DETSC 3301	0.1	mg/kg		0.18	< 0.10		0.13	< 0.10
Chrysene	DETSC 3301	0.1	mg/kg		0.16	< 0.10		0.11	< 0.10
Benzo(b)fluoranthene	DETSC 3301	0.1	mg/kg		< 0.10	< 0.10		0.17	< 0.10
Benzo(k)fluoranthene	DETSC 3301	0.1	mg/kg		< 0.10	< 0.10		0.25	< 0.10
Benzo(a)pyrene	DETSC 3301	0.1	mg/kg		< 0.10	< 0.10		0.15	< 0.10
Indeno(1,2,3-c,d)pyrene	DETSC 3301	0.1	mg/kg		< 0.10	< 0.10		0.25	< 0.10
Dibenzo(a,h)anthracene	DETSC 3301	0.1	mg/kg		< 0.10	< 0.10		< 0.10	< 0.10
Benzo(g,h,i)perylene	DETSC 3301	0.1	mg/kg		< 0.10	< 0.10		0.21	< 0.10
PAH 16 Total	DETSC 3301	1.6	mg/kg		< 1.6	< 1.6		1.7	< 1.6
PCBs									
PCB 28 + PCB 31	DETSC 3401#	0.01	mg/kg						
PCB 52	DETSC 3401#	0.01	mg/kg						
PCB 101	DETSC 3401#	0.01	mg/kg						
PCB 118	DETSC 3401#	0.01	mg/kg						
PCB 153	DETSC 3401#	0.01	mg/kg						
PCB 138	DETSC 3401#	0.01	mg/kg						
PCB 180	DETSC 3401#	0.01	mg/kg						
PCB 7 Total	DETSC 3401#	0.01	mg/kg						
Phenols									
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg		< 0.3	< 0.3		< 0.3	< 0.3

Summary of Chemical Analysis

Soil Samples

Our Ref 25-24053

Client Ref ~ 8216A

Contract Title ~ New Modular Offices,BAE,Samlesbury

Lab No	2584699	2584700	2584701	2584702	2584703	2584704
Sample ID ~	BH5	BH5	BH5	BH6	BH6	BH6
Depth ~	1.20-1.65	9.50-9.95	18.00	0.30-0.60	0.60-1.20	2.00-2.45
Other ID ~						
Sample Type ~	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sampling Date ~	08/10/2025	08/10/2025	08/10/2025	08/10/2025	08/10/2025	08/10/2025
Sampling Time ~	n/s	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units						
Asbestos Quantification (Gravimetric)	DETSC 1102	0.001	%						
Preparation									
Moisture Content	DETSC 1004	0.1	%				28	16	
Metals									
Arsenic	DETSC 2301#	0.2	mg/kg				0.8	0.9	
Boron, Water Soluble (2.5:1)	DETSC 2311#	0.2	mg/kg				0.5	0.3	
Cadmium	DETSC 2301#	0.1	mg/kg				< 0.1	< 0.1	
Chromium	DETSC 2301#	0.15	mg/kg				3.8	2.3	
Chromium, Hexavalent	DETSC 2204*	1	mg/kg				< 1.0	< 1.0	
Copper	DETSC 2301#	0.2	mg/kg				5.4	6.5	
Lead	DETSC 2301#	0.3	mg/kg				7.6	3.6	
Mercury	DETSC 2325#	0.05	mg/kg				< 0.05	< 0.05	
Molybdenum	DETSC 2301#	0.4	mg/kg				< 0.4	< 0.4	
Nickel	DETSC 2301#	1	mg/kg				4.1	5.8	
Selenium	DETSC 2301#	0.5	mg/kg				< 0.5	< 0.5	
Zinc	DETSC 2301#	1	mg/kg				5.2	4.3	
Inorganics									
pH	DETSC 2008#		pH	9.2	9.0	9.2	10.2	8.5	8.7
Cyanide, Total	DETSC 2130#	0.1	mg/kg				< 0.1	< 0.1	
Organic matter	DETSC 2002#	0.1	%				6.0	0.4	
Sulphate Aqueous Extract as SO4 (2:1)	DETSC 2076#	10	mg/l	61	61	71	110		42
Sulphide	DETSC 2024*	10	mg/kg				23	< 10	
Sulphate as SO4, Total	DETSC 2321#	0.01	%				0.05	< 0.01	
Petroleum Hydrocarbons									
Aliphatic C5-C6: HS_1D_AL	DETSC 3321*	0.01	mg/kg				< 0.01	< 0.01	
Aliphatic C6-C8: HS_1D_AL	DETSC 3321*	0.01	mg/kg				< 0.01	< 0.01	
Aliphatic C8-C10: HS_1D_AL	DETSC 3321*	0.01	mg/kg				< 0.01	< 0.01	
Aliphatic >EC10-EC12: EH_2D_AL	DETSC 3521#	1.5	mg/kg				< 1.50	< 1.50	
Aliphatic >EC12-EC16: EH_2D_AL	DETSC 3521#	1.2	mg/kg				< 1.20	< 1.20	
Aliphatic >EC16-EC21: EH_2D_AL	DETSC 3521#	1.5	mg/kg				< 1.50	< 1.50	
Aliphatic >EC21-EC35: EH_2D_AL	DETSC 3521#	3.4	mg/kg				< 3.40	< 3.40	
Aliphatic >EC35-EC40: EH_2D_AL	DETSC 3521*	3.4	mg/kg				< 3.40	< 3.40	
Aliphatic >EC35-EC44: EH_2D_AL	DETSC 3521*	3.4	mg/kg				< 3.40	< 3.40	
Aliphatic >EC40-EC44: EH_2D_AL	DETSC 3521*	3.4	mg/kg				< 3.40	< 3.40	
Aliphatic >EC10-EC44: EH_2D_AL	DETSC 3521*	10	mg/kg				< 10.00	< 10.00	
Aliphatic C5-C44: EH_2D+HS_1D_AL	DETSC 3521*	10	mg/kg				< 10.00	< 10.00	
Aromatic C5-C7: HS_1D_AR	DETSC 3321*	0.01	mg/kg				< 0.01	< 0.01	
Aromatic C7-C8: HS_1D_AR	DETSC 3321*	0.01	mg/kg				< 0.01	< 0.01	
Aromatic C8-C10: HS_1D_AR	DETSC 3321*	0.01	mg/kg				< 0.01	< 0.01	
Aromatic >EC10-EC12: EH_2D_AR	DETSC 3521#	0.9	mg/kg				< 0.90	< 0.90	
Aromatic >EC12-EC16: EH_2D_AR	DETSC 3521#	0.5	mg/kg				< 0.50	< 0.50	
Aromatic >EC16-EC21: EH_2D_AR	DETSC 3521#	0.6	mg/kg				3.07	< 0.60	

Summary of Chemical Analysis

Soil Samples

Our Ref 25-24053

Client Ref ~ 8216A

Contract Title ~ New Modular Offices,BAE,Samlesbury

Lab No	2584699	2584700	2584701	2584702	2584703	2584704
Sample ID ~	BH5	BH5	BH5	BH6	BH6	BH6
Depth ~	1.20-1.65	9.50-9.95	18.00	0.30-0.60	0.60-1.20	2.00-2.45
Other ID ~						
Sample Type ~	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sampling Date ~	08/10/2025	08/10/2025	08/10/2025	08/10/2025	08/10/2025	08/10/2025
Sampling Time ~	n/s	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units						
Aromatic >EC21-EC35: EH_2D_AR	DETSC 3521#	1.4	mg/kg				5.85	< 1.40	
Aromatic >EC35-EC40: EH_2D_AR	DETSC 3521*	1.4	mg/kg				< 1.40	< 1.40	
Aromatic >EC35-EC44: EH_2D_AR	DETSC 3521*	1.4	mg/kg				< 1.40	< 1.40	
Aromatic >EC40-EC44: EH_2D_AR	DETSC 3521*	1.4	mg/kg				< 1.40	< 1.40	
Aromatic >EC10-EC44: EH_2D_AR	DETSC 3521*	10	mg/kg				< 10.00	< 10.00	
Aromatic C5-C44: EH_2D+HS_1D_AR	DETSC 3521*	10	mg/kg				< 10.00	< 10.00	
TPH Ali/Aro C5-C44: EH_2D+HS_1D_Total	DETSC 3521*	10	mg/kg				< 10.00	< 10.00	
Benzene	DETSC 3321#	0.01	mg/kg				< 0.01	< 0.01	
Ethylbenzene	DETSC 3321#	0.01	mg/kg				< 0.01	< 0.01	
Toluene	DETSC 3321#	0.01	mg/kg				< 0.01	< 0.01	
m+p Xylene	DETSC 3321#	0.01	mg/kg				< 0.01	< 0.01	
o Xylene	DETSC 3321#	0.01	mg/kg				< 0.01	< 0.01	
MTBE	DETSC 3321	0.01	mg/kg				< 0.01	< 0.01	
PAHs									
Naphthalene	DETSC 3301	0.1	mg/kg				< 0.10	< 0.10	
Acenaphthylene	DETSC 3301	0.1	mg/kg				< 0.10	< 0.10	
Acenaphthene	DETSC 3301	0.1	mg/kg				0.13	< 0.10	
Fluorene	DETSC 3301	0.1	mg/kg				0.20	< 0.10	
Phenanthrene	DETSC 3301	0.1	mg/kg				1.9	< 0.10	
Anthracene	DETSC 3301	0.1	mg/kg				0.47	< 0.10	
Fluoranthene	DETSC 3301	0.1	mg/kg				3.3	< 0.10	
Pyrene	DETSC 3301	0.1	mg/kg				2.6	< 0.10	
Benzo(a)anthracene	DETSC 3301	0.1	mg/kg				1.4	< 0.10	
Chrysene	DETSC 3301	0.1	mg/kg				1.1	< 0.10	
Benzo(b)fluoranthene	DETSC 3301	0.1	mg/kg				0.90	< 0.10	
Benzo(k)fluoranthene	DETSC 3301	0.1	mg/kg				0.51	< 0.10	
Benzo(a)pyrene	DETSC 3301	0.1	mg/kg				1.2	< 0.10	
Indeno(1,2,3-c,d)pyrene	DETSC 3301	0.1	mg/kg				1.1	< 0.10	
Dibenzo(a,h)anthracene	DETSC 3301	0.1	mg/kg				0.20	< 0.10	
Benzo(g,h,i)perylene	DETSC 3301	0.1	mg/kg				0.78	< 0.10	
PAH 16 Total	DETSC 3301	1.6	mg/kg				16	< 1.6	
PCBs									
PCB 28 + PCB 31	DETSC 3401#	0.01	mg/kg				< 0.01		
PCB 52	DETSC 3401#	0.01	mg/kg				< 0.01		
PCB 101	DETSC 3401#	0.01	mg/kg				< 0.01		
PCB 118	DETSC 3401#	0.01	mg/kg				< 0.01		
PCB 153	DETSC 3401#	0.01	mg/kg				< 0.01		
PCB 138	DETSC 3401#	0.01	mg/kg				< 0.01		
PCB 180	DETSC 3401#	0.01	mg/kg				< 0.01		
PCB 7 Total	DETSC 3401#	0.01	mg/kg				< 0.01		
Phenols									
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg				< 0.3	< 0.3	

Summary of Chemical Analysis

Soil Samples

Our Ref 25-24053

Client Ref ~ 8216A

Contract Title ~ New Modular Offices,BAE,Samlesbury

Lab No	2584705
Sample ID ~	BH6
Depth ~	11.00-11.45
Other ID ~	
Sample Type ~	SOIL
Sampling Date ~	08/10/2025
Sampling Time ~	n/s

Test	Method	LOD	Units	
Asbestos Quantification (Gravimetric)	DETSC 1102	0.001	%	
Preparation				
Moisture Content	DETSC 1004	0.1	%	
Metals				
Arsenic	DETSC 2301#	0.2	mg/kg	
Boron, Water Soluble (2.5:1)	DETSC 2311#	0.2	mg/kg	
Cadmium	DETSC 2301#	0.1	mg/kg	
Chromium	DETSC 2301#	0.15	mg/kg	
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	
Copper	DETSC 2301#	0.2	mg/kg	
Lead	DETSC 2301#	0.3	mg/kg	
Mercury	DETSC 2325#	0.05	mg/kg	
Molybdenum	DETSC 2301#	0.4	mg/kg	
Nickel	DETSC 2301#	1	mg/kg	
Selenium	DETSC 2301#	0.5	mg/kg	
Zinc	DETSC 2301#	1	mg/kg	
Inorganics				
pH	DETSC 2008#		pH	9.1
Cyanide, Total	DETSC 2130#	0.1	mg/kg	
Organic matter	DETSC 2002#	0.1	%	
Sulphate Aqueous Extract as SO4 (2:1)	DETSC 2076#	10	mg/l	11
Sulphide	DETSC 2024*	10	mg/kg	
Sulphate as SO4, Total	DETSC 2321#	0.01	%	
Petroleum Hydrocarbons				
Aliphatic C5-C6: HS_1D_AL	DETSC 3321*	0.01	mg/kg	
Aliphatic C6-C8: HS_1D_AL	DETSC 3321*	0.01	mg/kg	
Aliphatic C8-C10: HS_1D_AL	DETSC 3321*	0.01	mg/kg	
Aliphatic >EC10-EC12: EH_2D_AL	DETSC 3521#	1.5	mg/kg	
Aliphatic >EC12-EC16: EH_2D_AL	DETSC 3521#	1.2	mg/kg	
Aliphatic >EC16-EC21: EH_2D_AL	DETSC 3521#	1.5	mg/kg	
Aliphatic >EC21-EC35: EH_2D_AL	DETSC 3521#	3.4	mg/kg	
Aliphatic >EC35-EC40: EH_2D_AL	DETSC 3521*	3.4	mg/kg	
Aliphatic >EC35-EC44: EH_2D_AL	DETSC 3521*	3.4	mg/kg	
Aliphatic >EC40-EC44: EH_2D_AL	DETSC 3521*	3.4	mg/kg	
Aliphatic >EC10-EC44: EH_2D_AL	DETSC 3521*	10	mg/kg	
Aliphatic C5-C44: EH_2D+HS_1D_AL	DETSC 3521*	10	mg/kg	
Aromatic C5-C7: HS_1D_AR	DETSC 3321*	0.01	mg/kg	
Aromatic C7-C8: HS_1D_AR	DETSC 3321*	0.01	mg/kg	
Aromatic C8-C10: HS_1D_AR	DETSC 3321*	0.01	mg/kg	
Aromatic >EC10-EC12: EH_2D_AR	DETSC 3521#	0.9	mg/kg	
Aromatic >EC12-EC16: EH_2D_AR	DETSC 3521#	0.5	mg/kg	
Aromatic >EC16-EC21: EH_2D_AR	DETSC 3521#	0.6	mg/kg	

Summary of Chemical Analysis

Soil Samples

Our Ref 25-24053

Client Ref ~ 8216A

Contract Title ~ New Modular Offices,BAE,Samlesbury

Lab No	2584705
Sample ID ~	BH6
Depth ~	11.00-11.45
Other ID ~	
Sample Type ~	SOIL
Sampling Date ~	08/10/2025
Sampling Time ~	n/s

Test	Method	LOD	Units	
Aromatic >EC21-EC35: EH_2D_AR	DETSC 3521#	1.4	mg/kg	
Aromatic >EC35-EC40: EH_2D_AR	DETSC 3521*	1.4	mg/kg	
Aromatic >EC35-EC44: EH_2D_AR	DETSC 3521*	1.4	mg/kg	
Aromatic >EC40-EC44: EH_2D_AR	DETSC 3521*	1.4	mg/kg	
Aromatic >EC10-EC44: EH_2D_AR	DETSC 3521*	10	mg/kg	
Aromatic C5-C44: EH_2D+HS_1D_AR	DETSC 3521*	10	mg/kg	
TPH Ali/Aro C5-C44: EH_2D+HS_1D_Total	DETSC 3521*	10	mg/kg	
Benzene	DETSC 3321#	0.01	mg/kg	
Ethylbenzene	DETSC 3321#	0.01	mg/kg	
Toluene	DETSC 3321#	0.01	mg/kg	
m+p Xylene	DETSC 3321#	0.01	mg/kg	
o Xylene	DETSC 3321#	0.01	mg/kg	
MTBE	DETSC 3321	0.01	mg/kg	
PAHs				
Naphthalene	DETSC 3301	0.1	mg/kg	
Acenaphthylene	DETSC 3301	0.1	mg/kg	
Acenaphthene	DETSC 3301	0.1	mg/kg	
Fluorene	DETSC 3301	0.1	mg/kg	
Phenanthrene	DETSC 3301	0.1	mg/kg	
Anthracene	DETSC 3301	0.1	mg/kg	
Fluoranthene	DETSC 3301	0.1	mg/kg	
Pyrene	DETSC 3301	0.1	mg/kg	
Benzo(a)anthracene	DETSC 3301	0.1	mg/kg	
Chrysene	DETSC 3301	0.1	mg/kg	
Benzo(b)fluoranthene	DETSC 3301	0.1	mg/kg	
Benzo(k)fluoranthene	DETSC 3301	0.1	mg/kg	
Benzo(a)pyrene	DETSC 3301	0.1	mg/kg	
Indeno(1,2,3-c,d)pyrene	DETSC 3301	0.1	mg/kg	
Dibenzo(a,h)anthracene	DETSC 3301	0.1	mg/kg	
Benzo(g,h,i)perylene	DETSC 3301	0.1	mg/kg	
PAH 16 Total	DETSC 3301	1.6	mg/kg	
PCBs				
PCB 28 + PCB 31	DETSC 3401#	0.01	mg/kg	
PCB 52	DETSC 3401#	0.01	mg/kg	
PCB 101	DETSC 3401#	0.01	mg/kg	
PCB 118	DETSC 3401#	0.01	mg/kg	
PCB 153	DETSC 3401#	0.01	mg/kg	
PCB 138	DETSC 3401#	0.01	mg/kg	
PCB 180	DETSC 3401#	0.01	mg/kg	
PCB 7 Total	DETSC 3401#	0.01	mg/kg	
Phenols				
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg	

Summary of Chemical Analysis

Soil VOC/SVOC Samples

Our Ref 25-24053

Client Ref ~ 8216A

Contract Title ~ New Modular Offices,BAE,Samlesbury

Lab No	2584681	2584689	2584695	2584697	2584702
Sample ID ~	BH1	BH3	BH4	BH5	BH6
Depth ~	0.26-0.35	0.30-0.60	0.60-1.00	0.30-0.60	0.30-0.60
Other ID ~					
Sample Type ~	SOIL	SOIL	SOIL	SOIL	SOIL
Sampling Date ~	08/10/2025	08/10/2025	08/10/2025	08/10/2025	08/10/2025
Sampling Time ~	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units					
VOCs								
Vinyl Chloride	DETSC 3431*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1 Dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Trans-1,2-dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1-dichloroethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Cis-1,2-dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,2-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Bromochloromethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Chloroform	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1,1-trichloroethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Carbon tetrachloride	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,2-dichloroethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Trichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,2-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dibromomethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Bromodichloromethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
cis-1,3-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Toluene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
trans-1,3-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1,2-trichloroethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Tetrachloroethylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,3-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dibromochloromethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,2-dibromoethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Chlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1,1,2-tetrachloroethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Ethylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
m+p-Xylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
o-Xylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Styrene	DETSC 3431*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Bromoform	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Isopropylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Bromobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,2,3-trichloropropane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
n-propylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-chlorotoluene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,3,5-trimethylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
4-chlorotoluene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Tert-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,2,4-trimethylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01

Summary of Chemical Analysis

Soil VOC/SVOC Samples

Our Ref 25-24053

Client Ref ~ 8216A

Contract Title ~ New Modular Offices,BAE,Samlesbury

Lab No	2584681	2584689	2584695	2584697	2584702
Sample ID ~	BH1	BH3	BH4	BH5	BH6
Depth ~	0.26-0.35	0.30-0.60	0.60-1.00	0.30-0.60	0.30-0.60
Other ID ~					
Sample Type ~	SOIL	SOIL	SOIL	SOIL	SOIL
Sampling Date ~	08/10/2025	08/10/2025	08/10/2025	08/10/2025	08/10/2025
Sampling Time ~	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units					
sec-butylbenzene	DETSC 3431*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
p-isopropyltoluene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,3-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,4-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
n-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,2-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,2-dibromo-3-chloropropane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,2,4-trichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	0.01
Hexachlorobutadiene	DETSC 3431*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,2,3-trichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	0.01
MTBE	DETSC 3431*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
SVOCs								
Phenol	DETSC 3433	0.1	mg/kg	< 0.1	< 1.0	< 0.1	< 0.1	< 0.1
Aniline	DETSC 3433*	0.1	mg/kg	< 0.1	< 1.0	< 0.1	< 0.1	< 0.1
2-Chlorophenol	DETSC 3433	0.1	mg/kg	< 0.1	< 1.0	< 0.1	< 0.1	< 0.1
Benzyl Alcohol	DETSC 3433	0.1	mg/kg	< 0.1	< 1.0	< 0.1	< 0.1	< 0.1
2-Methylphenol	DETSC 3433	0.1	mg/kg	< 0.1	< 1.0	< 0.1	< 0.1	< 0.1
Bis(2-chloroisopropyl)ether	DETSC 3433	0.1	mg/kg	< 0.1	< 1.0	< 0.1	< 0.1	< 0.1
3&4-Methylphenol	DETSC 3433	0.1	mg/kg	< 0.1	< 1.0	< 0.1	< 0.1	< 0.1
2,4-Dimethylphenol	DETSC 3433	0.1	mg/kg	< 0.1	< 1.0	< 0.1	< 0.1	< 0.1
Bis-(dichloroethoxy)methane	DETSC 3433	0.1	mg/kg	< 0.1	< 1.0	< 0.1	< 0.1	< 0.1
2,4-Dichlorophenol	DETSC 3433	0.1	mg/kg	< 0.1	< 1.0	< 0.1	< 0.1	< 0.1
1,2,4-Trichlorobenzene	DETSC 3433	0.1	mg/kg	< 0.1	< 1.0	< 0.1	< 0.1	< 0.1
4-Chloro-3-methylphenol	DETSC 3433	0.1	mg/kg	< 0.1	< 1.0	< 0.1	< 0.1	< 0.1
2-Methylnaphthalene	DETSC 3433	0.1	mg/kg	< 0.1	< 1.0	< 0.1	< 0.1	0.2
Hexachlorocyclopentadiene	DETSC 3433*	0.1	mg/kg	< 0.1	< 1.0	< 0.1	< 0.1	< 0.1
2,4,6-Trichlorophenol	DETSC 3433	0.1	mg/kg	< 0.1	< 1.0	< 0.1	< 0.1	< 0.1
2,4,5-Trichlorophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 1.0	< 0.1	< 0.1	< 0.1
2-Chloronaphthalene	DETSC 3433	0.1	mg/kg	< 0.1	< 1.0	< 0.1	< 0.1	< 0.1
2-Nitroaniline	DETSC 3433*	0.1	mg/kg	< 0.1	< 1.0	< 0.1	< 0.1	< 0.1
2,4-Dinitrotoluene	DETSC 3433*	0.1	mg/kg	< 0.1	< 1.0	< 0.1	< 0.1	< 0.1
3-Nitroaniline	DETSC 3433*	0.1	mg/kg	< 0.1	< 1.0	< 0.1	< 0.1	< 0.1
4-Nitrophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 1.0	< 0.1	< 0.1	< 0.1
Dibenzofuran	DETSC 3433	0.1	mg/kg	< 0.1	< 1.0	< 0.1	< 0.1	< 0.1
2,6-Dinitrotoluene	DETSC 3433	0.1	mg/kg	< 0.1	< 1.0	< 0.1	< 0.1	< 0.1
2,3,4,6-Tetrachlorophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 1.0	< 0.1	< 0.1	< 0.1
Diethylphthalate	DETSC 3433	0.1	mg/kg	< 0.1	< 1.0	< 0.1	< 0.1	< 0.1
4-Chlorophenylphenylether	DETSC 3433*	0.1	mg/kg	< 0.1	< 1.0	< 0.1	< 0.1	< 0.1
4-Nitroaniline	DETSC 3433*	0.1	mg/kg	< 0.1	< 1.0	< 0.1	< 0.1	< 0.1
2-Methyl-4,6-Dinitrophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 1.0	< 0.1	< 0.1	< 0.1
Diphenylamine	DETSC 3433	0.1	mg/kg	< 0.1	< 1.0	< 0.1	< 0.1	< 0.1
4-Bromophenylphenylether	DETSC 3433	0.1	mg/kg	< 0.1	< 1.0	< 0.1	< 0.1	< 0.1

Summary of Chemical Analysis

Soil VOC/SVOC Samples

Our Ref 25-24053

Client Ref ~ 8216A

Contract Title ~ New Modular Offices,BAE,Samlesbury

Lab No	2584681	2584689	2584695	2584697	2584702
Sample ID ~	BH1	BH3	BH4	BH5	BH6
Depth ~	0.26-0.35	0.30-0.60	0.60-1.00	0.30-0.60	0.30-0.60
Other ID ~					
Sample Type ~	SOIL	SOIL	SOIL	SOIL	SOIL
Sampling Date ~	08/10/2025	08/10/2025	08/10/2025	08/10/2025	08/10/2025
Sampling Time ~	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units					
Hexachlorobenzene	DETSC 3433	0.1	mg/kg	< 0.1	< 1.0	< 0.1	< 0.1	< 0.1
Pentachlorophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 1.0	< 0.1	< 0.1	< 0.1
Di-n-butylphthalate	DETSC 3433	0.1	mg/kg	< 0.1	< 1.0	< 0.1	< 0.1	< 0.1
Butylbenzylphthalate	DETSC 3433*	0.1	mg/kg	< 0.1	< 1.0	< 0.1	< 0.1	< 0.1
Bis(2-ethylhexyl)phthalate	DETSC 3433	0.1	mg/kg	0.3	< 1.0	< 0.1	< 0.1	< 0.1
Di-n-octylphthalate	DETSC 3433*	0.1	mg/kg	< 0.1	< 1.0	< 0.1	< 0.1	< 0.1
1,4-Dinitrobenzene	DETSC 3433*	0.1	mg/kg	< 0.1	< 1.0	< 0.1	< 0.1	< 0.1
Dimethylphthalate	DETSC 3433	0.1	mg/kg	< 0.1	< 1.0	< 0.1	< 0.1	< 0.1
1,3-Dinitrobenzene	DETSC 3433*	0.1	mg/kg	< 0.1	< 1.0	< 0.1	< 0.1	< 0.1
1,2-Dinitrobenzene	DETSC 3433*	0.1	mg/kg	< 0.1	< 1.0	< 0.1	< 0.1	< 0.1
2,3,5,6-Tetrachlorophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 1.0	< 0.1	< 0.1	< 0.1
Azobenzene	DETSC 3433	0.1	mg/kg	< 0.1	< 1.0	< 0.1	< 0.1	< 0.1
Carbazole	DETSC 3433*	0.1	mg/kg	< 0.1	< 1.0	< 0.1	< 0.1	< 0.1

WASTE ACCEPTANCE CRITERIA TESTING v20.25.02.03

Our Ref 25-24053

Client Ref 8216A

Contract Title New Modular Offices,BAE,Samlesbury

Sample Id BH2 0.23-0.40

Sample Numbers 2584685 2584706

Date Analysed 27/10/2025

Test Results On Waste			WAC Limit Values		
Determinand and Method Reference	Units	Result	Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	16.0	3	5	6
DETSC 2003# Loss On Ignition	%	5.3	n/a	n/a	10
DETSC 3321# BTEX	mg/kg	< 0.04	6	n/a	n/a
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01	1	n/a	n/a
DETSC 3311* Mineral Oil (C10 - C40)	mg/kg	< 10	500	n/a	n/a
DETSC 3301 PAHs	mg/kg	< 1.6	100	n/a	n/a
DETSC 2008# pH	pH Units	9.8	n/a	>6	n/a
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0	n/a	TBE	TBE
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0	n/a	TBE	TBE

Test Results On Leachate			WAC Limit Values		
Determinand and Method Reference	Conc in Eluate ug/l	Amount Leached mg/kg	Limit values for LS10 Leachate		
	10:1	LS10	Inert Waste	SNRHW	Hazardous Waste
DETSC 2306 Arsenic as As	26	0.26	0.5	2	25
DETSC 2306 Barium as Ba	14	0.1	20	100	300
DETSC 2306 Cadmium as Cd	< 0.030	< 0.02	0.04	1	5
DETSC 2306 Chromium as Cr	0.93	< 0.1	0.5	10	70
DETSC 2306 Copper as Cu	7.5	0.08	2	50	100
DETSC 2306 Mercury as Hg	< 0.010	< 0.002	0.01	0.2	2
DETSC 2306 Molybdenum as Mo	15	0.2	0.5	10	30
DETSC 2306 Nickel as Ni	0.82	< 0.1	0.4	10	40
DETSC 2306 Lead as Pb	0.43	< 0.05	0.5	10	50
DETSC 2306 Antimony as Sb	3.3	< 0.05	0.06	0.7	5
DETSC 2306 Selenium as Se	5.2	0.05	0.1	0.5	7
DETSC 2306 Zinc as Zn	< 1.3	< 0.01	4	50	200
DETSC 2055 Chloride as Cl	11000	110	800	15,000	25,000
DETSC 2055* Fluoride as F	770	7.7	10	150	500
DETSC 2055 Sulphate as SO4	28000	280	1000	20,000	50,000
DETSC 2009* Total Dissolved Solids	110000	1100	4000	60,000	100,000
DETSC 2130 Phenol Index	< 100	< 1	1	n/a	n/a
DETSC 2085 Dissolved Organic Carbon	5500	55	500	800	1000

Additional Information	
DETSC 2008 pH	9.5
DETSC 2009 Conductivity uS/cm	159.0
* Temperature*	19.0

Mass of Sample Kg	0.116
Mass of dry Sample Kg	0.090

Stage 1	
Volume of Leachant L2	0.874
Volume of Eluate VE1	0.82

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive
Hazardous Waste

Disclaimer: The WAC limit values are provided for guidance only. Normec DETS does not accept responsibility for errors or omissions.
Values are correct at time of issue.

WASTE ACCEPTANCE CRITERIA TESTING v20.25.02.03

Our Ref 25-24053

Client Ref 8216A

Contract Title New Modular Offices,BAE,Samlesbury

Sample Id BH3 0.30-0.60

Sample Numbers 2584689 2584707

Date Analysed 27/10/2025

Test Results On Waste			WAC Limit Values		
Determinand and Method Reference	Units	Result	Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	8.3	3	5	6
DETSC 2003# Loss On Ignition	%	4.1	n/a	n/a	10
DETSC 3321# BTEX	mg/kg	< 0.04	6	n/a	n/a
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01	1	n/a	n/a
DETSC 3311* Mineral Oil (C10 - C40)	mg/kg	< 10	500	n/a	n/a
DETSC 3301 PAHs	mg/kg	13.0	100	n/a	n/a
DETSC 2008# pH	pH Units	11.0	n/a	>6	n/a
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0	n/a	TBE	TBE
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0	n/a	TBE	TBE

Test Results On Leachate			WAC Limit Values		
Determinand and Method Reference	Conc in Eluate ug/l	Amount Leached mg/kg	Limit values for LS10 Leachate		
	10:1	LS10	Inert Waste	SNRHW	Hazardous Waste
DETSC 2306 Arsenic as As	13	0.13	0.5	2	25
DETSC 2306 Barium as Ba	16	0.2	20	100	300
DETSC 2306 Cadmium as Cd	< 0.030	< 0.02	0.04	1	5
DETSC 2306 Chromium as Cr	2.3	< 0.1	0.5	10	70
DETSC 2306 Copper as Cu	14	0.14	2	50	100
DETSC 2306 Mercury as Hg	0.017	< 0.002	0.01	0.2	2
DETSC 2306 Molybdenum as Mo	8.2	< 0.1	0.5	10	30
DETSC 2306 Nickel as Ni	2.1	< 0.1	0.4	10	40
DETSC 2306 Lead as Pb	0.14	< 0.05	0.5	10	50
DETSC 2306 Antimony as Sb	3.1	< 0.05	0.06	0.7	5
DETSC 2306 Selenium as Se	1.7	< 0.03	0.1	0.5	7
DETSC 2306 Zinc as Zn	< 1.3	< 0.01	4	50	200
DETSC 2055 Chloride as Cl	6100	< 100	800	15,000	25,000
DETSC 2055* Fluoride as F	300	3	10	150	500
DETSC 2055 Sulphate as SO4	45000	450	1000	20,000	50,000
DETSC 2009* Total Dissolved Solids	180000	1800	4000	60,000	100,000
DETSC 2130 Phenol Index	< 100	< 1	1	n/a	n/a
DETSC 2085 Dissolved Organic Carbon	5300	53	500	800	1000

Additional Information	
DETSC 2008 pH	10.4
DETSC 2009 Conductivity uS/cm	255.0
* Temperature*	19.0
Mass of Sample Kg	0.106
Mass of dry Sample Kg	0.090
Stage 1	
Volume of Leachant L2	0.884
Volume of Eluate VE1	0.82

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive
Hazardous Waste

Disclaimer: The WAC limit values are provided for guidance only. Normec DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.

WASTE ACCEPTANCE CRITERIA TESTING v20.25.02.03

Our Ref 25-24053

Client Ref 8216A

Contract Title New Modular Offices,BAE,Samlesbury

Sample Id BH6 0.30-0.60

Sample Numbers 2584702 2584708

Date Analysed 27/10/2025

Test Results On Waste			WAC Limit Values		
Determinand and Method Reference	Units	Result	Inert Waste	SNRHW	Hazardous Waste
DETS 2084# Total Organic Carbon	%	18.0	3	5	6
DETS 2003# Loss On Ignition	%	14.0	n/a	n/a	10
DETS 3321# BTEX	mg/kg	< 0.04	6	n/a	n/a
DETS 3401# PCBs (7 congeners)	mg/kg	< 0.01	1	n/a	n/a
DETS 3311* Mineral Oil (C10 - C40)	mg/kg	< 10	500	n/a	n/a
DETS 3301 PAHs	mg/kg	16.0	100	n/a	n/a
DETS 2008# pH	pH Units	10.2	n/a	>6	n/a
DETS 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0	n/a	TBE	TBE
DETS 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0	n/a	TBE	TBE

Test Results On Leachate			WAC Limit Values		
Determinand and Method Reference	Conc in Eluate ug/l	Amount Leached mg/kg	Limit values for LS10 Leachate		
	10:1	LS10	Inert Waste	SNRHW	Hazardous Waste
DETS 2306 Arsenic as As	3.4	0.03	0.5	2	25
DETS 2306 Barium as Ba	19	0.2	20	100	300
DETS 2306 Cadmium as Cd	< 0.030	< 0.02	0.04	1	5
DETS 2306 Chromium as Cr	6.7	< 0.1	0.5	10	70
DETS 2306 Copper as Cu	10	0.1	2	50	100
DETS 2306 Mercury as Hg	0.01	< 0.002	0.01	0.2	2
DETS 2306 Molybdenum as Mo	5.2	< 0.1	0.5	10	30
DETS 2306 Nickel as Ni	1.5	< 0.1	0.4	10	40
DETS 2306 Lead as Pb	< 0.090	< 0.05	0.5	10	50
DETS 2306 Antimony as Sb	2.2	< 0.05	0.06	0.7	5
DETS 2306 Selenium as Se	0.93	< 0.03	0.1	0.5	7
DETS 2306 Zinc as Zn	1.3	0.01	4	50	200
DETS 2055 Chloride as Cl	4500	< 100	800	15,000	25,000
DETS 2055* Fluoride as F	370	3.7	10	150	500
DETS 2055 Sulphate as SO4	30000	300	1000	20,000	50,000
DETS 2009* Total Dissolved Solids	150000	1500	4000	60,000	100,000
DETS 2130 Phenol Index	< 100	< 1	1	n/a	n/a
DETS 2085 Dissolved Organic Carbon	4600	< 50	500	800	1000

Additional Information	
DETS 2008 pH	10.5
DETS 2009 Conductivity uS/cm	217.0
* Temperature*	19.0

Mass of Sample Kg	0.125
Mass of dry Sample Kg	0.090

Stage 1

Volume of Leachant L2	0.865
Volume of Eluate VE1	0.82

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive
Hazardous Waste

Disclaimer: The WAC limit values are provided for guidance only. Normec DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.

Summary of Asbestos Analysis

Soil Samples

Our Ref 25-24053

Client Ref ~ 8216A

Contract Title ~ New Modular Offices,BAE,Samlesbury

Lab No	Sample ID	Material Type	Result	Comment*	Analyst
2584681	BH1 0.26-0.35	SOIL	NAD	none	Vicky Convery
2584682	BH1 0.35-0.75	SOIL	NAD	none	Vicky Convery
2584685	BH2 0.23-0.40	SOIL	NAD	none	Vicky Convery
2584686	BH2 0.60-1.20	SOIL	NAD	none	Vicky Convery
2584689	BH3 0.30-0.60	SOIL	NAD	none	Vicky Convery
2584690	BH3 0.60-1.00	SOIL	NAD	none	Vicky Convery
2584694	BH4 0.30-0.60	SOIL	Chrysotile	Chrysotile present as fibre bundles	Vicky Convery
2584695	BH4 0.60-1.00	SOIL	NAD	none	Vicky Convery
2584697	BH5 0.30-0.60	SOIL	NAD	none	Vicky Convery
2584698	BH5 0.60-1.20	SOIL	NAD	none	Vicky Convery
2584702	BH6 0.30-0.60	SOIL	NAD	none	Vicky Convery
2584703	BH6 0.60-1.20	SOIL	NAD	none	Vicky Convery

Crocidolite = Blue Asbestos, Amosite = Brown Asbestos, Chrysotile = White Asbestos. Anthophyllite, Actinolite and Tremolite are other forms of Asbestos. Samples are analysed by DETSC 1101 using polarised light microscopy in accordance with HSG248 and documented in-house methods. NAD = No Asbestos Detected. Where a sample is NAD, the result is based on analysis of at least 2 sub-samples and should be taken to mean 'no asbestos detected in sample'. Key: * -not included in laboratory scope of accreditation.

Summary of Asbestos Quantification Analysis

Soil Samples

Our Ref 25-24053

Client Ref ~ 8216A

Contract Title ~ New Modular Offices,BAE,Samlesbury

Lab No	2584694
Sample ID ~	BH4
Depth ~	0.30-0.60
Other ID ~	
Sample Type ~	
Sampling Date ~	08/10/2025
Sampling Time ~	

Test	Method	LOQ	Units	
Total Mass% Asbestos (a+b+c)	DETSC 1102	< 0.001	Mass %	< 0.001
Gravimetric Quantification (a)	DETSC 1102	< 0.001	Mass %	na
Detailed Gravimetric Quantification (b)	DETSC 1102	< 0.001	Mass %	<0.001
Quantification by PCOM (c)	DETSC 1102	< 0.001	Mass %	na
Potentially Respirable Fibres (d)	DETSC 1102	< 0.001	Fibres/g	na

Breakdown of Gravimetric Analysis (a)

Mass of Sample			g	462.27
ACMs present*			type	
Mass of ACM in sample			g	
% ACM by mass			%	
% asbestos in ACM			%	
% asbestos in sample			%	

Breakdown of Detailed Gravimetric Analysis (b)

% Amphibole bundles in sample			Mass %	na
% Chrysotile bundles in sample			Mass %	<0.001

Breakdown of PCOM Analysis (c)

% Amphibole fibres in sample			Mass %	na
% Chrysotile fibres in sample			Mass %	na

Breakdown of Potentially Respirable Fibre Analysis (d)

Amphibole fibres			Fibres/g	na
Chrysotile fibres			Fibres/g	na

* Denotes test or material description outside of UKAS accreditation.
 % asbestos in Asbestos Containing Materials (ACMs) is determined by
 by reference to HSG 264.
 Recommended sample size for quantification is approximately 1kg
 # denotes deviating sample
 The results are based on dry weight.

Information in Support of the Analytical Results

Our Ref 25-24053

Client Ref ~ 8216A

Contract ~ New Modular Offices,BAE,Samlesbury

Containers Received & Deviating Samples

Lab No	Sample ID ~	Date Sampled ~	Containers Received	Holding time exceeded for tests	Incorrect container for tests
2584681	BH1 0.26-0.35 SOIL	08/10/25	GJ 250ml x2, GJ 60ml x2, PT 1L	pH + Conductivity (7 days), VOC (7 days)	
2584682	BH1 0.35-0.75 SOIL	08/10/25	GJ 250ml, GJ 60ml, PT 1L	pH + Conductivity (7 days)	
2584683	BH1 2.00-2.45 SOIL	08/10/25	PT 1L	pH + Conductivity (7 days)	
2584684	BH1 8.00-8.45 SOIL	08/10/25	PT 500ml	pH + Conductivity (7 days)	
2584685	BH2 0.23-0.40 SOIL	08/10/25	GJ 250ml x2, GJ 60ml x2, PT 1L x3	pH + Conductivity (7 days)	
2584686	BH2 0.60-1.20 SOIL	08/10/25	GJ 250ml, GJ 60ml, PT 1L	pH + Conductivity (7 days)	
2584687	BH2 3.00-3.45 SOIL	08/10/25	PT 500ml	pH + Conductivity (7 days)	
2584688	BH2 17.50 SOIL	08/10/25	PT 500ml	pH + Conductivity (7 days)	
2584689	BH3 0.30-0.60 SOIL	08/10/25	GJ 250ml x3, GJ 60ml x3, PT 1L x3	pH + Conductivity (7 days), VOC (7 days)	
2584690	BH3 0.60-1.00 SOIL	08/10/25	GJ 250ml, GJ 60ml, PT 1L	pH + Conductivity (7 days)	
2584691	BH3 1.20-1.65 SOIL	08/10/25	PT 500ml	pH + Conductivity (7 days)	
2584692	BH3 5.00-5.45 SOIL	08/10/25	PT 500ml	pH + Conductivity (7 days)	
2584693	BH3 16.50-16.95 SOIL	08/10/25	PT 500ml	pH + Conductivity (7 days)	
2584694	BH4 0.30-0.60 SOIL	08/10/25	GJ 250ml, GJ 60ml, PT 1L	pH + Conductivity (7 days)	
2584695	BH4 0.60-1.00 SOIL	08/10/25	GJ 250ml x2, GJ 60ml x2, PT 1L	pH + Conductivity (7 days), VOC (7 days)	
2584696	BH4 6.50-6.95 SOIL	08/10/25	PT 500ml	pH + Conductivity (7 days)	
2584697	BH5 0.30-0.60 SOIL	08/10/25	GJ 250ml x2, GJ 60ml x2, PT 1L	pH + Conductivity (7 days), VOC (7 days)	
2584698	BH5 0.60-1.20 SOIL	08/10/25	GJ 250ml, GJ 60ml, PT 1L	pH + Conductivity (7 days)	
2584699	BH5 1.20-1.65 SOIL	08/10/25	PT 500ml	pH + Conductivity (7 days)	
2584700	BH5 9.50-9.95 SOIL	08/10/25	PT 500ml	pH + Conductivity (7 days)	
2584701	BH5 18.00 SOIL	08/10/25	PT 500ml	pH + Conductivity (7 days)	
2584702	BH6 0.30-0.60 SOIL	08/10/25	GJ 250ml x4, GJ 60ml x3, PT 1L x3	pH + Conductivity (7 days), VOC (7 days)	
2584703	BH6 0.60-1.20 SOIL	08/10/25	GJ 250ml, GJ 60ml, PT 1L	pH + Conductivity (7 days)	
2584704	BH6 2.00-2.45 SOIL	08/10/25	PT 500ml	pH + Conductivity (7 days)	
2584705	BH6 11.00-11.45 SOIL	08/10/25	PT 500ml	pH + Conductivity (7 days)	
2584706	BH2 0.23-0.40 LEACHATE	08/10/25	GJ 250ml x2, GJ 60ml x2, PT 1L x3	pH/Cond (1 days)	
2584707	BH3 0.30-0.60 LEACHATE	08/10/25	GJ 250ml x3, GJ 60ml x3, PT 1L x3	pH/Cond (1 days)	

Information in Support of the Analytical Results

Our Ref 25-24053

Client Ref ~ 8216A

Contract ~ New Modular Offices,BAE,Samlesbury

2584708	BH6 0.30-0.60 LEACHATE	08/10/25	GJ 250ml x4, GJ 60ml x3, PT 1L x3	pH/Cond (1 days)	
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Soil Analysis Notes

Inorganic soil analysis was carried out on a dried sample, crushed to pass a 250µm sieve

Organic soil analysis was carried out on an 'as received' sample. Organics results are corrected for moisture and expressed on a dry weight basis.

The Loss on Drying, used to express organics analysis on an air dried basis, is carried out at a temperature of 28°C +/-2°C.

Disposal

From the issue date of this test certificate, samples will be held for the following times prior to disposal :-

Soils - 1 month, Liquids - 2 weeks, Asbestos (test portion) - 6 months

Information in Support of the Analytical Results

List of HWOL Acronyms and Operators

Acronym	Description
HS	Headspace analysis
EH	Extractable Hydrocarbons - i.e. everything extracted by the solvent
CU	Clean-up - e.g. by florisil, silica gel
1D	GC - Single coil gas chromatography
2D	GC-GC - Double coil gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics only
AR	Aromatics only
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative eg. EH+HS_Total or EH_CU+HS_Total

Det	Acronym
Aliphatic C5-C6	HS_1D_AL
Aliphatic C6-C8	HS_1D_AL
Aliphatic C8-C10	HS_1D_AL
Aliphatic >EC10-EC12	EH_2D_AL
Aliphatic >EC12-EC16	EH_2D_AL
Aliphatic >EC16-EC21	EH_2D_AL
Aliphatic >EC21-EC35	EH_2D_AL
Aliphatic >EC35-EC40	EH_2D_AL
Aliphatic >EC35-EC44	EH_2D_AL
Aliphatic >EC40-EC44	EH_2D_AL
Aliphatic >EC10-EC44	EH_2D_AL
Aliphatic C5-C44	EH_2D+HS_1D_AL
Aromatic C5-C7	HS_1D_AR
Aromatic C7-C8	HS_1D_AR
Aromatic C8-C10	HS_1D_AR
Aromatic >EC10-EC12	EH_2D_AR
Aromatic >EC12-EC16	EH_2D_AR
Aromatic >EC16-EC21	EH_2D_AR
Aromatic >EC21-EC35	EH_2D_AR
Aromatic >EC35-EC40	EH_2D_AR
Aromatic >EC35-EC44	EH_2D_AR
Aromatic >EC40-EC44	EH_2D_AR
Aromatic >EC10-EC44	EH_2D_AR
Aromatic C5-C44	EH_2D+HS_1D_AR
TPH Ali/Aro C5-C44	EH_2D+HS_1D_Total
Mineral Oil (C10-C40) + Clean Up	EH_CU_1D_Total

Key:

~ Sample details are provided by the client and can affect the validity of the results

* -not accredited.

-MCERTS (accreditation only applies if report carries the MCERTS logo).

\$ -subcontracted.

n/s -not supplied.

I/S -insufficient sample.

U/S -unsuitable sample.

t/f -to follow.

nd -not detected.

End of Report Ver 25.10.01

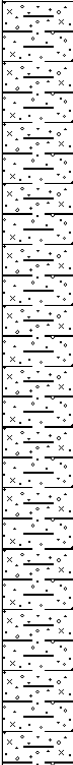
BOREHOLE RECORD SHEETS

S S SUB SURFACE SITE INVESTIGATION, GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS 3 Peel Street, Preston, PR2 2QS. Tel. (01772) 561135 Fax (01772) 204907						Site NEW MODULAR OFFICES, FORMER 420 BUILDING, BAE SYSTEMS, SAMLESBURY AERODROME, BB2 7LF			Borehole Number BH01	
Boring Method CABLE PERCUSSIVE		Casing Diameter 150mm cased to 13.50m		Ground Level (mOD)		Client T CLARKE CONTRACTING LIMITED			Job Number 8216A	
		Location As Plan.		Dates 30/09/2025		Architect WILSON MASON LLP			Sheet 1/2	
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	Instr
0.26-0.35 0.35-0.70	B B					(0.10) (0.16) 0.26 0.35	MADE GROUND: bituminous macadam surfacing. MADE GROUND: concrete.	 		
0.70-1.20	B					(0.35) 0.70	MADE GROUND: dark grey ashy clayey silty sandy fine to coarse gravel sized fragments of clinker and stone. Firm greyish brown silty slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.	 		
1.20-1.65 1.20-1.65 1.20-1.65	SPT N=9 B D			1, 1/2,2,2,3			Firm low strength locally medium strength becoming medium strength brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz. at 1.20m occasional woody plant remains.	 		
2.00-2.45 2.00-2.45	SPT N=12 B			1,2/2,3,3,4			...at 2.00m: medium strength.	 		
3.00-3.45	U c = 22kPa							 		
3.50	D							 		
4.00-4.45 4.00-4.45 4.00-4.45	SPT N=15 B D			2,2/3,3,4,5		(7.30)	...below 4.00m medium strength.	 		
5.00-5.45 5.00-5.45 5.00-5.45	SPT N=14 B D			2,2/2,3,5,4				 		
6.00	D							 		
6.50-6.95	U c = 65kPa							 		
7.00	D							 		
7.50	D							 		
8.00-8.45	SPT N=18			2,2/2,4,5,7				 		
Remarks Bituminous macadam and concrete surfacing cored out then hand excavated to 1.20m to check for services - 1 hour. Falling head permeability test carried out at 2.00m - 4 hours. No groundwater encountered. On completion backfilled with arisings to 5.00m and installed a 50mm dia slotted standpipe with a gravel surround from 5.00m to 1.00m, a Bentonite seal from 1.00m to 0.20m and a concreted in lockable steel protective cover from 0.20m to Ground Level.								Scale (approx) 1:40	Logged By AJ/DJ	Figure No. 8216A.BH01

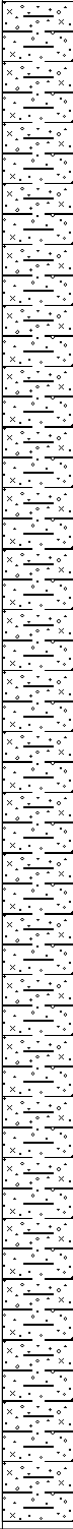
SUB SURFACE						Site		Borehole Number		
SITE INVESTIGATION, GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS 3 Peel Street, Preston, PR2 2QS. Tel. (01772) 561135 Fax (01772) 204907						NEW MODULAR OFFICES, FORMER 420 BUILDING, BAE SYSTEMS, SAMLESBURY AERODROME, BB2 7LF		BH01		
Boring Method CABLE PERCUSSIVE		Casing Diameter 150mm cased to 13.50m			Ground Level (mOD)		Client T CLARKE CONTRACTING LIMITED		Job Number 8216A	
		Location As Plan.			Dates 30/09/2025		Architect WILSON MASON LLP		Sheet 2/2	
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	Instr
8.00-8.45 8.00-8.45	B D					8.00	Firm medium strength brown silty CLAY			
9.00	D					(2.00)				
9.50-9.95	U c = 52kPa									
10.00	D					10.00	Stiff medium strength becoming high strength brown slightly gravelly slightly sandy silty CLAY. Gravel comprises subrounded fine to coarse sandstone and quartz.			
10.50	D									
11.00-11.45 11.00-11.45 11.00-11.45	SPT N=16 B D			5,2/3,4,4,5						
12.00	D									
12.50-12.95	U c=114kPa					(5.45)	...below 12.50m high strength.			
13.00	D									
13.50	D									
14.00-14.45 14.00-14.45 14.00-14.45	SPT N=25 B D			1,2/4,5,7,9						
14.50	D						...at 14.5 occasional coal gravel.			
15.00-15.45 15.00-15.45	SPT N=27 D			2,4/4,7,8,8		15.45	Complete at 15.45m			
Remarks								Scale (approx)	Logged By	
								1:40	AJ/DJ	
								Figure No. 8216A.BH01		

SUB SURFACE						Site		Borehole Number	
SITE INVESTIGATION, GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS 3 Peel Street, Preston, PR2 2QS. Tel. (01772) 561135 Fax (01772) 204907						NEW MODULAR OFFICES, FORMER 420 BUILDING, BAE SYSTEMS, SAMLESBURY AERODROME, BB2 7LF		BH02	
Boring Method CABLE PERCUSSIVE		Casing Diameter 150mm cased to 3.00m		Ground Level (mOD)		Client T CLARKE CONTRACTING LIMITED		Job Number 8216A	
		Location As Plan.		Dates 01/10/2025- 02/10/2025		Architect WILSON MASON LLP		Sheet 1/3	
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.23-0.40	B					(0.10) (0.13) (0.23) (0.17) 0.40	MADE GROUND: bituminous macadam surfacing.		
0.40-0.60	B						MADE GROUND: concrete.		
0.60-1.20	B						MADE GROUND: dark grey ashy clayey silty sandy fine to coarse gravel sized fragments of clinker and stone.		
1.20-1.65	SPT N=8			1,2/2,2,2,2			Firm low strength locally medium strength brown slightly gravelly slightly sandy silty CLAY. Gravel comprises subrounded fine to coarse sandstone and quartz.		
1.20-1.65	B								
1.20-1.65	D								
									
2.00-2.45	U NTP			HP@2.00m, c=75kPa			...at 2.00m: medium strength.		
2.50	D					(4.60)			
3.00-3.45	SPT N=9			1,2/2,2,2,3					
3.00-3.45	B								
3.00-3.45	D								
4.00-4.45	U c = 47kPa						...at 4.00m: medium strength.		
4.50	D								
5.00-5.45	SPT N=4			1,1/1,1,1,1		5.00	Soft very low strength brown silty slightly gravelly slightly sandy silty CLAY. Gravel comprises subrounded fine to coarse sandstone and quartz.		
5.00-5.45	B								
5.00-5.45	D								
									
6.00	D								
6.50-6.95	SPT N=4			1,1/1,1,1,1		(3.00)			
6.50-6.95	B								
6.50-6.95	D								
7.50	D								
Remarks Bituminous macadam and concrete surfacing cored out then hand excavated to 1.20m to check for services - 1 hour. No groundwater encountered. On completion backfilled with arisings. NTP = No test possible.								Scale (approx)	Logged By
								1:40	AJ/DJ
								Figure No. 8216A.BH01	

S S SUB SURFACE SITE INVESTIGATION, GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS 3 Peel Street, Preston, PR2 2QS. Tel. (01772) 561135 Fax (01772) 204907					Site NEW MODULAR OFFICES, FORMER 420 BUILDING, BAE SYSTEMS, SAMLESBURY AERODROME, BB2 7LF			Borehole Number BH02		
Boring Method CABLE PERCUSSIVE		Casing Diameter 150mm cased to 3.00m			Ground Level (mOD)		Client T CLARKE CONTRACTING LIMITED		Job Number 8216A	
		Location As Plan.			Dates 01/10/2025-02/10/2025		Architect WILSON MASON LLP		Sheet 2/3	
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	
8.00-8.45	U c = 107kPA					8.00	Stiff high strength brown slightly gravelly slightly sandy silty CLAY. Gravel comprises subangular to subrounded fine to coarse sandstone and quartz.			

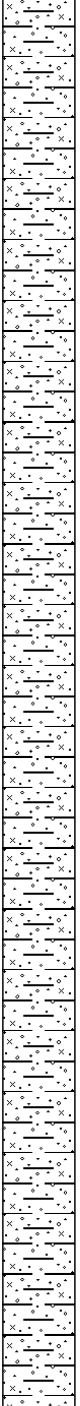
 SUB SURFACE SITE INVESTIGATION, GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS 3 Peel Street, Preston, PR2 2QS. Tel. (01772) 561135 Fax (01772) 204907							Site NEW MODULAR OFFICES, FORMER 420 BUILDING, BAE SYSTEMS, SAMLESBURY AERODROME, BB2 7LF		Borehole Number BH02	
Boring Method CABLE PERCUSSIVE		Casing Diameter 150mm cased to 3.00m		Ground Level (mOD)		Client T CLARKE CONTRACTING LIMITED		Job Number 8216A		
		Location As Plan.		Dates 01/10/2025- 02/10/2025		Architect WILSON MASON LLP		Sheet 3/3		
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	
16.50-16.95 16.50-16.95 16.50-16.95	B D SPT N=23			01/10/2025:DRY 02/10/2025:DRY 3,5/5,5,6,7			Stiff high strength brown slightly gravelly slightly sandy silty CLAY. Gravel comprises subangular to subrounded fine to coarse sandstone and quartz.			
17.50	D			3,4/4,5,8,9						
18.00-18.45 18.00-18.45 18.00-18.45	SPT N=26 B D									
19.00	D									
19.60-20.05 19.60-20.05	SPT N=36 D			5,6/7,9,9,11						
				02/10/2025:DRY		20.05	Complete at 20.05m			
Remarks							Scale (approx) 1:40	Logged By AJ/DJ		
							Figure No. 8216A.BH01			

 SUB SURFACE SITE INVESTIGATION, GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS 3 Peel Street, Preston, PR2 2QS. Tel. (01772) 561135 Fax (01772) 204907							Site NEW MODULAR OFFICES, FORMER 420 BUILDING, BAE SYSTEMS, SAMLESBURY AERODROME, BB2 7LF		Borehole Number BH03
Boring Method CABLE PERCUSSIVE		Casing Diameter 150mm cased to 1.50m		Ground Level (mOD)		Client T CLARKE CONTRACTING LIMITED		Job Number 8216A	
		Location As Plan.		Dates 02/10/2025- 03/10/2025		Architect WILSON MASON LLP		Sheet 1/3	
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.24-0.60	B					(0.10) (0.14) 0.24	MADE GROUND: bituminous macadam surfacing.		
						(0.36)	MADE GROUND: concrete.		
0.60-1.20	B					0.60	MADE GROUND: dark grey ashy clayey silty sandy fine to coarse gravel sized fragments of clinker and stone.		
							Soft very low strength brown slightly gravelly slightly sandy silty CLAY. Gravel comprises subrounded fine to coarse sandstone and quartz.		
1.20-1.65	SPT N=4			1,1/1,1,1,1		(1.40)	...at 1.20m woody plant remains.		
1.20-1.65	B								
1.20-1.65	D								
2.00-2.45	U c = 61 kPa					2.00	Firm medium strength brown slightly gravelly slightly sandy silty CLAY. Gravel comprises subrounded fine to coarse sandstone and quartz.		
2.50	D								
3.00-3.45	U NTP			HV@3.00m, c=63kPa		(2.00)			
3.50	D								
4.00-4.45	SPT N=5			1,1/1,1,1,2		4.00	Soft low strength brown slightly sandy silty CLAY.		
4.00-4.45	B								
4.00-4.45	D					(1.00)			
5.00-5.45	SPT N=8			2,2/2,2,2,2		5.00	Soft low strength brown slightly gravelly slightly sandy silty CLAY. Gravel comprises subrounded fine to coarse sandstone and quartz.		
5.00-5.45	B								
5.00-5.45	D					(1.50)			
6.50-6.95	U c = 42kPa					6.50	Stiff medium becoming high strength brown slightly gravelly slightly sandy silty CLAY. Gravel comprises subangular to subrounded fine to coarse sandstone and quartz.		
7.00	D								
						(1.50)			
7.50	D								
8.00-8.45	SPT N=21			3,3/5,5,5,6					
Remarks Bituminous macadam and concrete surfacing cored out then hand excavated to 1.20m to check for services - 1 hour. No groundwater encountered. On completion backfilled with arisings.								Scale (approx) 1:40	Logged By AJ/DJ
								Figure No. 8216A.BH03	

 SUB SURFACE SITE INVESTIGATION, GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS 3 Peel Street, Preston, PR2 2QS. Tel. (01772) 561135 Fax (01772) 204907							Site NEW MODULAR OFFICES, FORMER 420 BUILDING, BAE SYSTEMS, SAMLESBURY AERODROME, BB2 7LF		Borehole Number BH03
Boring Method CABLE PERCUSSIVE		Casing Diameter 150mm cased to 1.50m		Ground Level (mOD)		Client T CLARKE CONTRACTING LIMITED		Job Number 8216A	
		Location As Plan.		Dates 02/10/2025- 03/10/2025		Architect WILSON MASON LLP		Sheet 2/3	
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
8.00-8.45 8.00-8.45	B D					8.00	Stiff high strength brown slightly gravelly slightly sandy silty CLAY. Gravel comprises subangular to subrounded fine to coarse sandstone and quartz.		
9.00	D								
9.50-9.95 9.50-9.95 9.50-9.95	SPT N=19 B D			3,4/4,4,5,6					
10.50	D								
11.00-11.45 11.00-11.45 11.00-11.45	SPT N=25 B D			4,4/5,6,7,7					
12.00	D								
12.50-12.95 12.50-12.95 12.50-12.95	SPT N=26 B D			4,5/5,6,7,8					
13.50	D								
14.00-14.45	U c = 118kPa			02/10/2025:DRY 03/10/2025:DRY		(12.05)			
14.50	D								
15.00-15.45 15.00-15.45 15.00-15.45	SPT N=32 B D			4,5/5,7,9,11					
Remarks								Scale (approx) 1:40	Logged By AJ/DJ
								Figure No. 8216A.BH03	

S S SUB SURFACE SITE INVESTIGATION, GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS 3 Peel Street, Preston, PR2 2QS. Tel. (01772) 561135 Fax (01772) 204907						Site NEW MODULAR OFFICES, FORMER 420 BUILDING, BAE SYSTEMS, SAMLESBURY AERODROME, BB2 7LF		Borehole Number BH03	
Boring Method CABLE PERCUSSIVE		Casing Diameter 150mm cased to 1.50m		Ground Level (mOD)		Client T CLARKE CONTRACTING LIMITED		Job Number 8216A	
		Location As Plan.		Dates 02/10/2025-03/10/2025		Architect WILSON MASON LLP		Sheet 3/3	
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
16.00	D						Stiff high strength becoming very high strength brown slightly gravelly slightly sandy silty CLAY. Gravel comprises subangular to subrounded fine to coarse sandstone and quartz.		

S S SUB SURFACE SITE INVESTIGATION, GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS 3 Peel Street, Preston, PR2 2QS. Tel. (01772) 561135 Fax (01772) 204907						Site NEW MODULAR OFFICES, FORMER 420 BUILDING, BAE SYSTEMS, SAMLESBURY AERODROME, BB2 7LF			Borehole Number BH04		
Boring Method CABLE PERCUSSIVE		Casing Diameter 150mm cased to 1.50m			Ground Level (mOD)		Client T CLARKE CONTRACTING LIMITED			Job Number 8216A	
		Location As Plan.			Dates 03/10/2025- 06/10/2025		Architect WILSON MASON LLP			Sheet 1/2	
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	Instr	
0.30-0.60	B					0.07 (0.18) 0.25	MADE GROUND: bituminous macadam surfacing.				
0.60-1.00	B					(0.35) 0.60	MADE GROUND: concrete.				
						(0.60)	MADE GROUND: dark grey ashy sandy fine to coarse gravel sized fragments of stone and clinker.				
1.20-1.65	U c = 133kPa					(0.60)	MADE GROUND: dark brown slightly ashy silty slightly sandy slightly gravelly clay. Gravel sized fragments are fine to coarse sandstone and clinker.				
1.65	D					1.20	Stiff high strength becoming firm medium strength brown slightly sandy silty CLAY.				
2.00-2.45 2.00-2.45 2.00-2.45	SPT N=12 B D			2,3/3,3,3,3		(1.80)	..below 2.00m medium strength.				
3.00-3.45 3.00-3.45 3.00-3.45	SPT N=13 B D			2,3/3,3,3,4		3.00	Firm medium strength brown slightly gravelly slightly sandy silty CLAY. Gravel comprises subrounded fine to coarse sandstone and quartz.				
4.00-4.45 4.00-4.45 4.00-4.45	SPT N=16 B D			2,3/4,4,4,4							
5.00-5.45 5.00-5.45 5.00-5.45	SPT N=12 B D			2,2/2,3,3,4		(4.00)					
				03/10/2025: DRY 06/10/2025: DRY							
6.50-6.95 6.50-6.95	D U NR										
7.00-7.45 7.00-7.45	SPT N=28 B			4,5/7,7,7,7		7.00	Stiff high strength brown slightly gravelly slightly sandy silty CLAY. Gravel comprises subrounded fine to coarse sandstone and quartz.				
7.50	D										
8.00-8.45	SPT N=29			5,6/7,7,7,8							
Remarks Bituminous macadam and concrete surfacing cored out then hand excavated to 1.20m to check for services - 1 hour. Falling head permeability test carried out at 2.00m - 4 hours. No groundwater encountered. On completion backfilled with arisings to 5.00m and installed a 50mm dia slotted standpipe with a gravel surround from 5.00m to 1.00m, a Bentonite seal from 1.00m to 0.20m and a concreted in lockable steel protective cover from 0.20m to Ground Level. NR = No recovery.								Scale (approx) 1:40	Logged By AJ/DJ	Figure No. 8216A.BH04	

 SUB SURFACE SITE INVESTIGATION, GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS 3 Peel Street, Preston, PR2 2QS. Tel. (01772) 561135 Fax (01772) 204907						Site NEW MODULAR OFFICES, FORMER 420 BUILDING, BAE SYSTEMS, SAMLESBURY AERODROME, BB2 7LF			Borehole Number BH04		
Boring Method CABLE PERCUSSIVE		Casing Diameter 150mm cased to 1.50m			Ground Level (mOD)		Client T CLARKE CONTRACTING LIMITED			Job Number 8216A	
		Location As Plan.					Dates 03/10/2025- 06/10/2025			Architect WILSON MASON LLP	
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	Instr	
8.00-8.45 8.00-8.45	B D						Stiff high strength brown slightly gravelly slightly sandy silty CLAY. Gravel comprises subrounded fine to coarse sandstone and quartz.				
9.00	D										
9.50-9.95 9.50-9.95 9.50-9.95	SPT N=24 B D			3,4/5,5,7,7							
10.50	D										
11.00-11.45	U c=84kPa					(8.45)					
11.50	D										
12.00	D										
12.50-12.95 12.50-12.95 12.50-12.95	SPT N=22 B D			3,3/4,5,6,7							
13.50	D										
14.00-14.45 14.00-14.45 14.00-14.45	SPT N=28 B D			3,3/6,6,8,8							
15.00-15.45 15.00-15.45	SPT N=28 D			2,4/4,7,8,9		15.45					
							Complete at 15.45m				
Remarks								Scale (approx) 1:40	Logged By AJ/DJ		
								Figure No. 8216A.BH04			

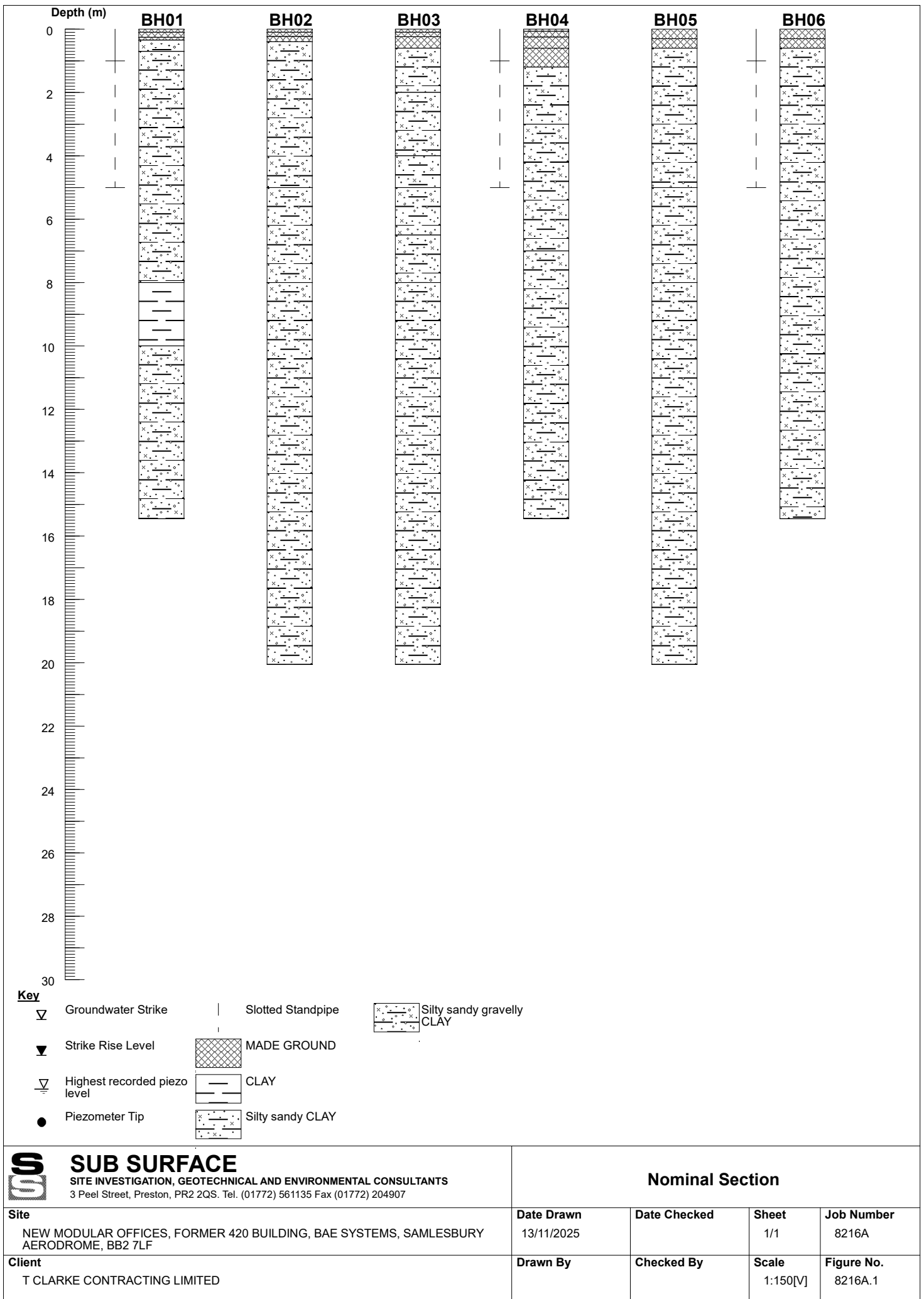
 SUB SURFACE SITE INVESTIGATION, GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS 3 Peel Street, Preston, PR2 2QS. Tel. (01772) 561135 Fax (01772) 204907							Site NEW MODULAR OFFICES, FORMER 420 BUILDING, BAE SYSTEMS, SAMLESBURY AERODROME, BB2 7LF		Borehole Number BH05
Boring Method CABLE PERCUSSIVE		Casing Diameter 150mm cased to 1.50m		Ground Level (mOD)		Client T CLARKE CONTRACTING LIMITED		Job Number 8216A	
		Location As Plan.		Dates 06/10/2025- 07/10/2025		Architect WILSON MASON LLP		Sheet 1/3	
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.30-0.60	B					(0.30)	MADE GROUND: bituminous macadam over concrete.		
0.60-1.20	B					0.30 (0.30)	MADE GROUND: dark grey ashy clayey silty sandy fine to coarse gravel sized fragments of clinker and stone.		
1.20-1.65 1.20-1.65 1.20-1.65	SPT N=4 B D			1,1/1,1,1,1		0.60	Firm very low becoming low strength locally high strength brown slightly gravelly slightly sandy silty CLAY. Gravel comprises subrounded fine to coarse sandstone and quartz.		
2.00-2.45	U c = 103 kPa						...at 2.00m high strength.		
2.50	D								
3.00-3.45 3.00-3.45 3.00-3.45	B D U NR					(4.40)			
4.00-4.45 4.00-4.45 4.00-4.45	SPT N=6 B D			1,1/1,1,2,2			...at 4.00m: low strength.		
5.00-5.45 5.00-5.45 5.00-5.45	SPT N=10 B U c = 69kPa			1,2/2,2,3,3		5.00	Firm medium strength becoming high strength brown silty slightly gravelly slightly sandy silty CLAY. Gravel comprises subrounded fine to coarse sandstone and quartz.		
5.50	D			06/10/2025:DRY 07/10/2025:DRY					
6.00	D								
6.50-6.95 6.50-6.95 6.50-6.95	SPT N=21 B D			3,3/5,5,5,6		(3.00)	...below 6.50m stiff high strength.		
7.50	D								
Remarks Concrete surfacing cored out then hand excavated to 1.20m to check for services - 1 hour. No groundwater encountered. On completion backfilled with arisings. NTP = No test possible. NR = No Recovery. HV = Hand Shear Vane test.								Scale (approx) 1:40	Logged By AJ/DJ
								Figure No. 8216A.BH05	

S SUB SURFACE SITE INVESTIGATION, GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS 3 Peel Street, Preston, PR2 2QS. Tel. (01772) 561135 Fax (01772) 204907						Site NEW MODULAR OFFICES, FORMER 420 BUILDING, BAE SYSTEMS, SAMLESBURY AERODROME, BB2 7LF		Borehole Number BH05		
Boring Method CABLE PERCUSSIVE		Casing Diameter 150mm cased to 1.50m			Ground Level (mOD)		Client T CLARKE CONTRACTING LIMITED		Job Number 8216A	
		Location As Plan.			Dates 06/10/2025-07/10/2025		Architect WILSON MASON LLP		Sheet 2/3	
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	
8.00-8.45	U NTP			HV at 8.00m c=43kPa		8.00	Stiff high strength brown slightly gravelly slightly sandy silty CLAY. Gravel comprises subangular to subrounded fine to coarse sandstone and quartz. ...at 8.00m: medium strength.			

 SUB SURFACE SITE INVESTIGATION, GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS 3 Peel Street, Preston, PR2 2QS. Tel. (01772) 561135 Fax (01772) 204907							Site NEW MODULAR OFFICES, FORMER 420 BUILDING, BAE SYSTEMS, SAMLESBURY AERODROME, BB2 7LF		Borehole Number BH05	
Boring Method CABLE PERCUSSIVE		Casing Diameter 150mm cased to 1.50m			Ground Level (mOD)		Client T CLARKE CONTRACTING LIMITED		Job Number 8216A	
		Location As Plan.			Dates 06/10/2025-07/10/2025		Architect WILSON MASON LLP		Sheet 3/3	
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	
16.50	D						Stiff high strength brown slightly gravelly slightly sandy silty CLAY. Gravel comprises subangular to subrounded fine to coarse sandstone and quartz.			
17.00-17.45 17.00-17.45 17.00-17.45	SPT N=32 B D			3,5/7,8,8,9						
18.00	D									
18.50-18.95 18.50-18.95 18.50-18.95	SPT N=33 B D			5,5/7,8,8,10						
19.50	D									
20.00-20.45 20.00-20.45	SPT N=34 D			5,6/7,7,9,11		20.05	Complete at 20.45m			
				07/10/2025:DRY						
Remarks								Scale (approx) 1:40	Logged By AJ/DJ	
								Figure No. 8216A.BH05		

S S SUB SURFACE SITE INVESTIGATION, GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS 3 Peel Street, Preston, PR2 2QS. Tel. (01772) 561135 Fax (01772) 204907						Site NEW MODULAR OFFICES, FORMER 420 BUILDING, BAE SYSTEMS, SAMLESBURY AERODROME, BB2 7LF				Borehole Number BH06	
Boring Method CABLE PERCUSSIVE		Casing Diameter 150mm cased to 1.50m			Ground Level (mOD)		Client T CLARKE CONTRACTING LIMITED			Job Number 8216A	
		Location As Plan.			Dates 08/10/2025		Architect WILSON MASON LLP			Sheet 1/2	
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	Instr	
0.30-0.60	B					(0.30)	MADE GROUND: concrete.				
						0.30					
0.60-1.20	B					(0.30)	MADE GROUND: dark grey ashy gravel sized fragments of fine to coarse sandstone and clinker.				
						0.60					
1.20-1.65	U c = 78kPa						Firm medium strength locally low and high strength becoming stiff high strength locally medium strength brown slightly gravelly slightly sandy silty CLAY. Gravel comprises subrounded fine to coarse sandstone and quartz.				
							...at 1.20m: high strength.				
1.70	D										
2.00-2.45 2.00-2.45 2.00-2.45	SPT N=15 B D			2,2/3,4,4,4							
3.00-3.45	U c = 53kPa										
3.50	D										
4.00-4.45 4.00-4.45 4.00-4.45	SPT N=12 B D			1,3/3,3,3,3							
5.00-5.45 5.00-5.45 5.00-5.45	SPT N=16 B D			2,3/4,4,4,4							
6.00	D										
6.50-6.95	U c = 25kPa						...at 6.50m low strength.				
7.00	D						...below 7.00m stiff high strength, locally medium strength.				
7.50	D										
8.00-8.45	SPT N=23			4,4/5,5,6,7							
Remarks Concrete surfacing cored out then hand excavated to 1.20m to check for services - 1 hour. No groundwater encountered. On completion backfilled with arisings to 5.00m and installed a 50mm dia slotted standpipe with a gravel surround from 5.00m to 1.00m, a Bentonite seal from 1.00m to 0.20m and a concreted in lockable steel protective cover from 0.20m to GL. NTP = No test possible. HV = Hand Shear Vane test.								Scale (approx) 1:40	Logged By AJ/DJ	Figure No. 8216A.BH06	

S S SUB SURFACE SITE INVESTIGATION, GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS 3 Peel Street, Preston, PR2 2QS. Tel. (01772) 561135 Fax (01772) 204907						Site NEW MODULAR OFFICES, FORMER 420 BUILDING, BAE SYSTEMS, SAMLESBURY AERODROME, BB2 7LF			Borehole Number BH06	
Boring Method CABLE PERCUSSIVE		Casing Diameter 150mm cased to 1.50m		Ground Level (mOD)		Client T CLARKE CONTRACTING LIMITED			Job Number 8216A	
		Location As Plan.		Dates 08/10/2025		Architect WILSON MASON LLP			Sheet 2/2	
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	Instr
8.00-8.45 8.00-8.45	B D					(14.85)	Stiff high strength locally medium strength brown slightly gravelly slightly sandy silty CLAY. Gravel comprises subrounded fine to coarse sandstone and quartz.	</		



WASTE CLASSIFICATION SHEETS

Waste Classification Report

HazWasteOnline™ classifies waste as either **hazardous** or **non-hazardous** based on its chemical composition, related legislation and the rules and data defined in the current UK or EU technical guidance (Appendix C) (note that HP 9 Infectious is not assessed). It is the responsibility of the classifier named below to:

- understand the origin of the waste
- select the correct List of Waste code(s)
- confirm that the list of determinands, results and sampling plan are fit for purpose
- select and justify the chosen metal species (Appendix B)
- correctly apply moisture correction and other available corrections
- add the meta data for their user-defined substances (Appendix A)
- check that the classification engine is suitable with respect to the national destination of the waste (Appendix C)

To aid the reviewer, the laboratory results, assumptions and justifications managed by the classifier are highlighted in pale yellow.



3CJ8C-2EULT-OD820

i This Waste Classification Report contains user defined substances. See [Appendix A](#) for details.

Report is invalid if pages are removed.

Job name

8216A - Made Ground

Description/Comments

25-24053

Project

New Modular Offices

Site

Former 420 Building, BAE Systems, Samlesbury Aerodrome

Classified by

Name: **David Ravenscroft-Jones** Company: **Sub Surface Consultants**
Date: **12 Nov 2025 14:17 GMT**
Telephone: **01772 561135**

HazWasteOnline™ provides a two day, hazardous waste classification course that covers the use of the software and both basic and advanced waste classification techniques. Certification has to be renewed every 3 years.

HazWasteOnline™ Certification:

Course
Hazardous Waste Classification

Date

Purpose of classification

2 - Material Characterisation

Address of the waste

Former 420 Building, BAE Systems, Samlesbury Aerodrome, Balderstone, Lancashire,

Post Code BB2 7LF

SIC for the process giving rise to the waste

41201 Construction of commercial buildings

Description of industry/producer giving rise to the waste

Made ground derived from past development.

Description of the specific process, sub-process and/or activity that created the waste

Waste created during site strip and excavation for foundations.

Description of the waste

Made ground comprising dark grey ashy sandy fine to coarse gravel sized fragments of stone and clinker.

Job summary

#	Sample name	Depth [m]	Classification Result	Hazard properties	Page
1	BH2/0.23-0.40/2025-10-08	0.23	Non Hazardous		3
2	BH3/0.30-0.60/2025-10-08	0.3	Non Hazardous		6
3	BH4/0.30-0.60/2025-10-08	0.30	Non Hazardous		12
4	BH4/0.60-1.00/2025-10-08	0.60	Non Hazardous		15
5	BH5/0.30-0.60/2025-10-08	0.30	Non Hazardous		20
6	BH6/0.30-0.60/2025-10-08	0.30	Non Hazardous		26
7	BH1/0.26-0.35/2025-10-08	0.26	Non Hazardous		31

Related documents

#	Name	Description
1	25-24053.hwol	DETS North .hwol file used to populate the Job

Report

Created by: David Ravenscroft-Jones

Created date: 12 Nov 2025 14:17 GMT

Appendices	Page
Appendix A: Classifier defined and non GB MCL determinands	37
Appendix B: Rationale for selection of metal species	41
Appendix C: Version	41

Classification of sample: BH2/0.23-0.40/2025-10-08

**Non Hazardous Waste**Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:	
BH2/0.23-0.40/2025-10-08	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.23 m		
Moisture content:		
22%		
(wet weight correction)		

Hazard properties

None identified

Determinands

Moisture content: 22% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.1 mg/kg	1.884	<0.188 mg/kg	<0.0000188 %			<LOD
	006-007-00-5										
2	monohydric phenols				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %			<LOD
			P1186								
3	acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
		205-917-1	208-96-8								
4	acenaphthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
		201-469-6	83-32-9								
5	fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
		201-695-5	86-73-7								
6	phenanthrene				0.12 mg/kg		0.0936 mg/kg	0.00000936 %		✓	
		201-581-5	85-01-8								
7	anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
		204-371-1	120-12-7								
8	fluoranthene				0.25 mg/kg		0.195 mg/kg	0.0000195 %		✓	
		205-912-4	206-44-0								
9	pyrene				0.21 mg/kg		0.164 mg/kg	0.0000164 %		✓	
		204-927-3	129-00-0								
10	benzo[a]anthracene				0.13 mg/kg		0.101 mg/kg	0.0000101 %		✓	
	601-033-00-9	200-280-6	56-55-3								
11	chrysene				0.12 mg/kg		0.0936 mg/kg	0.00000936 %		✓	
	601-048-00-0	205-923-4	218-01-9								
12	benzo[b]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
	601-034-00-4	205-911-9	205-99-2								
13	benzo[k]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
	601-036-00-5	205-916-6	207-08-9								
14	benzo[a]pyrene; benzo[def]chrysene				0.1 mg/kg		0.078 mg/kg	0.0000078 %		✓	
	601-032-00-3	200-028-5	50-32-8								
15	indeno[123-cd]pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
		205-893-2	193-39-5								
16	dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
17	benzo[ghi]perylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
		205-883-8	191-24-2								

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
18		boron { boron tribromide }				0.7	mg/kg	23.173	12.652	mg/kg	0.00127 %	✓	
		005-003-00-0	233-657-9	10294-33-4									
19		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
20		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
21		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
22		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
23		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
24		chromium in Cr(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
		024-017-00-8											
25		TPH (C6 to C40) petroleum group				47.64	mg/kg		37.159	mg/kg	0.00372 %	✓	
				TPH									
26		mercury { mercury(II) sulfide }				<0.05	mg/kg	1.16	<0.058	mg/kg	<0.0000058 %		<LOD
			215-696-3	1344-48-5									
27		arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }				16	mg/kg	1.895	23.644	mg/kg	0.00236 %	✓	
		033-005-00-1											
28		cadmium { cadmium sulfate }				0.2	mg/kg	1.855	0.289	mg/kg	0.0000289 %	✓	
		048-009-00-9	233-331-6	10124-36-4									
29		copper { copper sulphate }				75	mg/kg	2.512	146.935	mg/kg	0.0147 %	✓	
		029-004-00-0	231-847-6	7758-98-7									
30		molybdenum { molybdenum(VI) oxide }				8.2	mg/kg	1.5	9.595	mg/kg	0.00096 %	✓	
		042-001-00-9	215-204-7	1313-27-5									
31		nickel { nickel dichromate }				46	mg/kg	4.68	167.916	mg/kg	0.0168 %	✓	
		028-047-00-2	239-646-5	15586-38-6									
32		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	18	mg/kg		14.04	mg/kg	0.0014 %	✓	
		082-001-00-6											
33		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				1	mg/kg	1.405	1.096	mg/kg	0.00011 %	✓	
		034-002-00-8											
34		zinc { zinc chromate }				54	mg/kg	2.774	116.847	mg/kg	0.0117 %	✓	
		024-007-00-3	236-878-9	13530-65-9									
35		polychlorobiphenyls; PCB				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-039-00-4	215-648-1	1336-36-3									
36		xylene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
37		chromium in Cr(III) compounds { chromium(III) oxide (worst case) }				25	mg/kg	1.462	28.5	mg/kg	0.00285 %	✓	
			215-160-9	1308-38-9									
									Total:	0.0559 %			

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
•	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and ≤ 75°C"

Force this Hazardous Property to non-hazardous for cumulative determinand results below the threshold of: 1000 mg/kg (0.1%)
because: No liquid phase present.

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.00372%)

Classification of sample: BH3/0.30-0.60/2025-10-08

**Non Hazardous Waste**Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:	
BH3/0.30-0.60/2025-10-08	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.3 m		
Moisture content:		
15%		
(wet weight correction)		

Hazard properties

None identified

Determinands

Moisture content: 15% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				1.1 mg/kg	1.884	1.762 mg/kg	0.000176 %	✓	
	006-007-00-5									
2	monohydric phenols		P1186		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
3	phenol				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
4	aniline				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	612-008-00-7	200-539-3	62-53-3							
5	benzyl alcohol				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	603-057-00-5	202-859-9	100-51-6							
6	m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]							
7	Bis(2-Chloroisopropyl)Ether				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
		254-554-5	39638-32-9							
8	3,4-xyleneol; [1] 2,5-xyleneol; [2] 2,4-xyleneol; [3] 2,3-xyleneol; [4] 2,6-xyleneol; [5] xyleneol; [6] 2,4(or 2,5)-xyleneol [7]				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]							
9	bis(2-chloroethoxy)methane				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
		203-920-2	111-91-1							
10	2,4-dichlorophenol				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	604-011-00-7	204-429-6	120-83-2							
11	chlorocresol; 4-chloro-m-cresol; 4-chloro-3-methylphenol				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	604-014-00-3	200-431-6	59-50-7							
12	2-methyl naphthalene				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
		202-078-3	91-57-6							
13	hexachlorocyclopentadiene				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	602-078-00-7	201-029-3	77-47-4							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
14	2,4,6-trichlorophenol				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	604-018-00-5	201-795-9	88-06-2							
15	2,4,5-trichlorophenol				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	604-017-00-X	202-467-8	95-95-4							
16	2-chloronaphthalene				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
		202-079-9	91-58-7							
17	2,4-dinitrotoluene; [1] dinitrotoluene [2]				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	609-007-00-9	204-450-0 [1] 246-836-1 [2]	121-14-2 [1] 25321-14-6 [2]							
18	acenaphthylene				0.36 mg/kg		0.306 mg/kg	0.0000306 %	✓	
		205-917-1	208-96-8							
19	acenaphthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-469-6	83-32-9							
20	4-nitrophenol; p-nitrophenol				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	609-015-00-2	202-811-7	100-02-7							
21	dibenzofuran				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
		205-071-3	132-64-9							
22	2,6-dinitrotoluene				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	609-049-00-8	210-106-0	606-20-2							
23	2,3,4,6-tetrachlorophenol				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	604-013-00-8	200-402-8	58-90-2							
24	diethyl phthalate				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
		201-550-6	84-66-2							
25	4-chlorophenylphenylether				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
		230-281-7	7005-72-3							
26	fluorene				0.21 mg/kg		0.179 mg/kg	0.0000179 %	✓	
		201-695-5	86-73-7							
27	DNOC (ISO); 4,6-dinitro-o-cresol				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	609-020-00-X	208-601-1	534-52-1							
28	diphenylamine				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	612-026-00-5	204-539-4	122-39-4							
29	4-bromophenylphenylether				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
		202-952-4	101-55-3							
30	hexachlorobenzene				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	602-065-00-6	204-273-9	118-74-1							
31	pentachlorophenol				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	604-002-00-8	201-778-6	87-86-5							
32	phenanthrene				1.8 mg/kg		1.53 mg/kg	0.000153 %	✓	
		201-581-5	85-01-8							
33	anthracene				0.27 mg/kg		0.23 mg/kg	0.000023 %	✓	
		204-371-1	120-12-7							
34	dibutyl phthalate; DBP				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	607-318-00-4	201-557-4	84-74-2							
35	fluoranthene				5.3 mg/kg		4.505 mg/kg	0.000451 %	✓	
		205-912-4	206-44-0							
36	pyrene				5.4 mg/kg		4.59 mg/kg	0.000459 %	✓	
		204-927-3	129-00-0							
37	BBP; benzyl butyl phthalate				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	607-430-00-3	201-622-7	85-68-7							
38	benzo[a]anthracene				2.3 mg/kg		1.955 mg/kg	0.000195 %	✓	
	601-033-00-9	200-280-6	56-55-3							
39	chrysene				2.6 mg/kg		2.21 mg/kg	0.000221 %	✓	
	601-048-00-0	205-923-4	218-01-9							
40	bis(2-ethylhexyl) phthalate; di-(2-ethylhexyl) phthalate; DEHP				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	607-317-00-9	204-211-0	117-81-7							
41	di-n-octyl phthalate				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
		204-214-7	117-84-0							
42	benzo[b]fluoranthene				2 mg/kg		1.7 mg/kg	0.00017 %	✓	
	601-034-00-4	205-911-9	205-99-2							
43	benzo[k]fluoranthene				1.2 mg/kg		1.02 mg/kg	0.000102 %	✓	
	601-036-00-5	205-916-6	207-08-9							

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
44		benzo[a]pyrene; benzo[def]chrysene				1.4	mg/kg		1.19	mg/kg	0.000119 %	✓	
		601-032-00-3	200-028-5	50-32-8									
45	●	indeno[123-cd]pyrene				1.1	mg/kg		0.935	mg/kg	0.0000935 %	✓	
			205-893-2	193-39-5									
46		dibenz[a,h]anthracene				0.1	mg/kg		0.085	mg/kg	0.0000085 %	✓	
		601-041-00-2	200-181-8	53-70-3									
47	●	benzo[ghi]perylene				1.7	mg/kg		1.445	mg/kg	0.000145 %	✓	
			205-883-8	191-24-2									
48	●	dimethyl phthalate				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
			205-011-6	131-11-3									
49	👤	2,3,5,6-Tetrachlorophenol				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
				935-95-5									
50		azobenzene				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
		611-001-00-6	203-102-5	103-33-3									
51	●	carbazole				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
			201-696-0	86-74-8									
52	👤	boron { boron tribromide }				0.5	mg/kg	23.173	9.849	mg/kg	0.000985 %	✓	
		005-003-00-0	233-657-9	10294-33-4									
53		vinyl chloride; chloroethylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-023-00-7	200-831-0	75-01-4									
54		1,1-dichloroethylene; vinylidene chloride				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-025-00-8	200-864-0	75-35-4									
55		1,1-dichloroethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-011-00-1	200-863-5	75-34-3									
56	●	2,2-dichloropropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			209-832-0	594-20-7									
57	●	bromochloromethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			200-826-3	74-97-5									
58		chloroform; trichloromethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-006-00-4	200-663-8	67-66-3									
59		1,1,1-trichloroethane; methyl chloroform				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-013-00-2	200-756-3	71-55-6									
60		1,1-dichloropropene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-031-00-0	209-253-3	563-58-6									
61		carbon tetrachloride; tetrachloromethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-008-00-5	200-262-8	56-23-5									
62		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
63		1,2-dichloroethane; ethylene dichloride				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-012-00-7	203-458-1	107-06-2									
64		trichloroethylene; trichloroethene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-027-00-9	201-167-4	79-01-6									
65		1,2-dichloropropane; propylene dichloride				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-020-00-0	201-152-2	78-87-5									
66		dibromomethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-003-00-8	200-824-2	74-95-3									
67	●	bromodichloromethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			200-856-7	75-27-4									
68		1,3-dichloropropene; [1] (Z)-1,3-dichloropropene [2]				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-030-00-5	208-826-5 [1] 233-195-8 [2]	542-75-6 [1] 10061-01-5 [2]									
69		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
70	●	trans-1,3-dichloropropene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			431-460-4	10061-02-6									
71		1,1,2-trichloroethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-014-00-8	201-166-9	79-00-5									
72		tetrachloroethylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-028-00-4	204-825-9	127-18-4									
73	●	1,3-dichloropropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			205-531-3	142-28-9									
74	●	dibromochloromethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			204-704-0	124-48-1									

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
75	1,2-dibromoethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	602-010-00-6	203-444-5	106-93-4									
76	chlorobenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	602-033-00-1	203-628-5	108-90-7									
77	1,1,1,2-tetrachloroethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		211-135-1	630-20-6									
78	ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4									
79	styrene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-026-00-0	202-851-5	100-42-5									
80	bromoform; tribromomethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	602-007-00-X	200-854-6	75-25-2									
81	cumene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-024-00-X	202-704-5	98-82-8									
82	bromobenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	602-060-00-9	203-623-8	108-86-1									
83	1,2,3-trichloropropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	602-062-00-X	202-486-1	96-18-4									
84	propylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-097-00-8	203-132-9	103-65-1									
85	mesitylene; 1,3,5-trimethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-025-00-5	203-604-4	108-67-8									
86	tert-butylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		202-632-4	98-06-6									
87	1,2,4-trimethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-043-00-3	202-436-9	95-63-6									
88	sec-butylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-227-0	135-98-8									
89	1-isopropyl-4-methylbenzene; p-cymene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-094-00-1	202-796-7	99-87-6									
90	1,3-dichlorobenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	602-067-00-7	208-792-1	541-73-1									
91	1,4-dichlorobenzene; p-dichlorobenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	602-035-00-2	203-400-5	106-46-7									
92	n-butylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		203-209-7	104-51-8									
93	1,2-dichlorobenzene; o-dichlorobenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	602-034-00-7	202-425-9	95-50-1									
94	1,2-dibromo-3-chloropropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	602-021-00-6	202-479-3	96-12-8									
95	1,2,4-trichlorobenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	602-087-00-6	204-428-0	120-82-1									
96	hexachlorobutadiene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-765-5	87-68-3									
97	naphthalene				0.14	mg/kg		0.119	mg/kg	0.0000119 %	✓	
	601-052-00-2	202-049-5	91-20-3									
98	1,2,3-trichlorobenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-757-1	87-61-6									
99	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
100	chromium in Cr(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
	024-017-00-8											
101	TPH (C6 to C40) petroleum group				287.9	mg/kg		244.715	mg/kg	0.0245 %	✓	
			TPH									
102	mercury { mercury(II) sulfide }				<0.05	mg/kg	1.16	<0.058	mg/kg	<0.0000058 %		<LOD
		215-696-3	1344-48-5									
103	arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }				0.8	mg/kg	1.895	1.288	mg/kg	0.000129 %	✓	
	033-005-00-1											
104	cadmium { cadmium sulfate }				0.1	mg/kg	1.855	0.158	mg/kg	0.0000158 %	✓	
	048-009-00-9	233-331-6	10124-36-4									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
105		copper { copper sulphate }				6.6	mg/kg	2.512	14.091	mg/kg	0.00141 %	✓	
	029-004-00-0	231-847-6	7758-98-7										
106		molybdenum { molybdenum(VI) oxide }				0.6	mg/kg	1.5	0.765	mg/kg	0.0000765 %	✓	
	042-001-00-9	215-204-7	1313-27-5										
107		nickel { nickel dichromate }				5.7	mg/kg	4.68	22.674	mg/kg	0.00227 %	✓	
	028-047-00-2	239-646-5	15586-38-6										
108		lead {  lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	4.3	mg/kg		3.655	mg/kg	0.000366 %	✓	
	082-001-00-6												
109		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.405	<0.703	mg/kg	<0.0000703 %		<LOD
	034-002-00-8												
110		zinc { zinc chromate }				6.3	mg/kg	2.774	14.856	mg/kg	0.00149 %	✓	
	024-007-00-3	236-878-9	13530-65-9										
111		polychlorobiphenyls; PCB				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	602-039-00-4	215-648-1	1336-36-3										
112		xylene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]										
113		chromium in Cr(III) compounds {  chromium(III) oxide (worst case) }				6.7	mg/kg	1.462	8.324	mg/kg	0.000832 %	✓	
		215-160-9	1308-38-9										
114		2-chlorophenol; [1] 4-chlorophenol; [2] 3-chlorophenol; [3] chlorophenol [4]				<2	mg/kg		<2	mg/kg	<0.0002 %		<LOD
	604-008-00-0	202-433-2 [1] 203-402-6 [2] 203-582-6 [3] 246-691-4 [4]	95-57-8 [1] 106-48-9 [2] 108-43-0 [3] 25167-80-0 [4]										
115		o-nitroaniline; [1] m-nitroaniline; [2] p-nitroaniline [3]				<3	mg/kg		<3	mg/kg	<0.0003 %		<LOD
	612-012-00-9	201-855-4 [1] 202-729-1 [2] 202-810-1 [3]	88-74-4 [1] 99-09-2 [2] 100-01-6 [3]										
116		dinitrobenzene; [1] 1,4-dinitrobenzene; [2] 1,3-dinitrobenzene; [3] 1,2-dinitrobenzene [4]				<3	mg/kg		<3	mg/kg	<0.0003 %		<LOD
	609-004-00-2	246-673-6 [1] 202-833-7 [2] 202-776-8 [3] 208-431-8 [4]	25154-54-5 [1] 100-25-4 [2] 99-65-0 [3] 528-29-0 [4]										
117		1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3]				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
	602-026-00-3	208-750-2 [1] 205-859-7 [2] 205-860-2 [3]	540-59-0 [1] 156-59-2 [2] 156-60-5 [3]										
118		2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
	602-040-00-X	202-424-3 [1] 203-580-5 [2] 203-397-0 [3] 246-698-2 [4]	95-49-8 [1] 108-41-8 [2] 106-43-4 [3] 25168-05-2 [4]										
Total:												0.0344 %	

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Determinand defined by classifier (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous Property to non-hazardous for cumulative determinand results below the threshold of: 1000 mg/kg (0.1%)
because: No liquid phase present.

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.0245%)

Classification of sample: BH4/0.30-0.60/2025-10-08

**Non Hazardous Waste**Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:	
BH4/0.30-0.60/2025-10-08	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
030 m		
Moisture content:		
29%		
(wet weight correction)		

Hazard properties

None identified

Determinands

Moisture content: 29% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.1 mg/kg	1.884	<0.188 mg/kg	<0.0000188 %		<LOD
	006-007-00-5									
2	monohydric phenols		P1186		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
3	acenaphthylene	205-917-1	208-96-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
4	acenaphthene	201-469-6	83-32-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
5	fluorene	201-695-5	86-73-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
6	phenanthrene	201-581-5	85-01-8		0.23 mg/kg		0.163 mg/kg	0.0000163 %	✓	
7	anthracene	204-371-1	120-12-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
8	fluoranthene	205-912-4	206-44-0		0.56 mg/kg		0.398 mg/kg	0.0000398 %	✓	
9	pyrene	204-927-3	129-00-0		0.37 mg/kg		0.263 mg/kg	0.0000263 %	✓	
10	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	0.18 mg/kg		0.128 mg/kg	0.0000128 %	✓	
11	chrysene	601-048-00-0	205-923-4	218-01-9	0.16 mg/kg		0.114 mg/kg	0.0000114 %	✓	
12	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
13	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
14	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
15	indeno[123-cd]pyrene	205-893-2	193-39-5		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
16	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
17	benzo[ghi]perylene	205-883-8	191-24-2		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
18	boron { boron tribromide }				0.6	mg/kg	23.173	9.872	mg/kg	0.000987 %	✓	
	005-003-00-0	233-657-9	10294-33-4									
19	benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
20	toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3									
21	ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4									
22	naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
23	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
24	chromium in Cr(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
	024-017-00-8											
25	TPH (C6 to C40) petroleum group				302.4	mg/kg		214.704	mg/kg	0.0215 %	✓	
			TPH									
26	mercury { mercury(II) sulfide }				<0.05	mg/kg	1.16	<0.058	mg/kg	<0.0000058 %		<LOD
		215-696-3	1344-48-5									
27	arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }				0.8	mg/kg	1.895	1.076	mg/kg	0.000108 %	✓	
	033-005-00-1											
28	cadmium { cadmium sulfate }				<0.1	mg/kg	1.855	<0.185	mg/kg	<0.0000185 %		<LOD
	048-009-00-9	233-331-6	10124-36-4									
29	copper { copper sulphate }				6.4	mg/kg	2.512	11.413	mg/kg	0.00114 %	✓	
	029-004-00-0	231-847-6	7758-98-7									
30	molybdenum { molybdenum(VI) oxide }				0.5	mg/kg	1.5	0.533	mg/kg	0.0000533 %	✓	
	042-001-00-9	215-204-7	1313-27-5									
31	nickel { nickel dichromate }				3.7	mg/kg	4.68	12.294	mg/kg	0.00123 %	✓	
	028-047-00-2	239-646-5	15586-38-6									
32	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	3.7	mg/kg		2.627	mg/kg	0.000263 %	✓	
	082-001-00-6											
33	selenium { selenium compounds with the exception of cadmium selenosulfide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.405	<0.703	mg/kg	<0.0000703 %		<LOD
	034-002-00-8											
34	zinc { zinc chromate }				7.9	mg/kg	2.774	15.56	mg/kg	0.00156 %	✓	
	024-007-00-3	236-878-9	13530-65-9									
35	xylene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
36	chromium in Cr(III) compounds { chromium(III) oxide (worst case) }				3.6	mg/kg	1.462	3.736	mg/kg	0.000374 %	✓	
		215-160-9	1308-38-9									
Total:										0.0273 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
•	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and ≤ 75°C"

Force this Hazardous Property to non-hazardous for cumulative determinand results below the threshold of: 1000 mg/kg (0.1%) because: No liquid phase present.

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.0215%)

Classification of sample: BH4/0.60-1.00/2025-10-08

**Non Hazardous Waste**Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:	
BH4/0.60-1.00/2025-10-08	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.60 m		
Moisture content:		
20%		
(wet weight correction)		

Hazard properties

None identified

Determinands

Moisture content: 20% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				0.2 mg/kg	1.884	0.301 mg/kg	0.0000301 %	✓	
	006-007-00-5									
2	monohydric phenols				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
			P1186							
3	phenol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
4	aniline				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	612-008-00-7	200-539-3	62-53-3							
5	benzyl alcohol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	603-057-00-5	202-859-9	100-51-6							
6	m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]							
7	Bis(2-Chloroisopropyl)Ether				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		254-554-5	39638-32-9							
8	3,4-xylene; [1] 2,5-xylene; [2] 2,4-xylene; [3] 2,3-xylene; [4] 2,6-xylene; [5] xylene; [6] 2,4(or 2,5)-xylene [7]				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]							
9	bis(2-chloroethoxy)methane				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		203-920-2	111-91-1							
10	2,4-dichlorophenol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	604-011-00-7	204-429-6	120-83-2							
11	chlorocresol; 4-chloro-m-cresol; 4-chloro-3-methylphenol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	604-014-00-3	200-431-6	59-50-7							
12	2-methyl naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		202-078-3	91-57-6							
13	hexachlorocyclopentadiene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	602-078-00-7	201-029-3	77-47-4							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
14	2,4,6-trichlorophenol 604-018-00-5	201-795-9	88-06-2		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
15	2,4,5-trichlorophenol 604-017-00-X	202-467-8	95-95-4		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
16	2-chloronaphthalene 202-079-9	91-58-7			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
17	2,4-dinitrotoluene; [1] dinitrotoluene [2] 609-007-00-9	204-450-0 [1] 246-836-1 [2]	121-14-2 [1] 25321-14-6 [2]		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
18	acenaphthylene 205-917-1	208-96-8			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
19	acenaphthene 201-469-6	83-32-9			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
20	4-nitrophenol; p-nitrophenol 609-015-00-2	202-811-7	100-02-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
21	dibenzofuran 205-071-3	132-64-9			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
22	2,6-dinitrotoluene 609-049-00-8	210-106-0	606-20-2		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
23	2,3,4,6-tetrachlorophenol 604-013-00-8	200-402-8	58-90-2		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
24	diethyl phthalate 201-550-6	84-66-2			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
25	4-chlorophenylphenylether 230-281-7	7005-72-3			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
26	fluorene 201-695-5	86-73-7			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
27	DNOC (ISO); 4,6-dinitro-o-cresol 609-020-00-X	208-601-1	534-52-1		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
28	diphenylamine 612-026-00-5	204-539-4	122-39-4		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
29	4-bromophenylphenylether 202-952-4	101-55-3			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
30	hexachlorobenzene 602-065-00-6	204-273-9	118-74-1		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
31	pentachlorophenol 604-002-00-8	201-778-6	87-86-5		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
32	phenanthrene 201-581-5	85-01-8			0.3 mg/kg		0.24 mg/kg	0.000024 %	✓		
33	anthracene 204-371-1	120-12-7			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
34	dibutyl phthalate; DBP 607-318-00-4	201-557-4	84-74-2		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
35	fluoranthene 205-912-4	206-44-0			0.3 mg/kg		0.24 mg/kg	0.000024 %	✓		
36	pyrene 204-927-3	129-00-0			0.3 mg/kg		0.24 mg/kg	0.000024 %	✓		
37	BBP; benzyl butyl phthalate 607-430-00-3	201-622-7	85-68-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
38	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		0.1 mg/kg		0.08 mg/kg	0.000008 %	✓		
39	chrysene 601-048-00-0	205-923-4	218-01-9		0.1 mg/kg		0.08 mg/kg	0.000008 %	✓		
40	bis(2-ethylhexyl) phthalate; di-(2-ethylhexyl) phthalate; DEHP 607-317-00-9	204-211-0	117-81-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
41	di-n-octyl phthalate 204-214-7	117-84-0			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
42	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
43	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
44	benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
	601-032-00-3	200-028-5	50-32-8									
45	indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		205-893-2	193-39-5									
46	dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
47	benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		205-883-8	191-24-2									
48	dimethyl phthalate				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		205-011-6	131-11-3									
49	2,3,5,6-Tetrachlorophenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			935-95-5									
50	azobenzene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
	611-001-00-6	203-102-5	103-33-3									
51	carbazole				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		201-696-0	86-74-8									
52	boron { boron tribromide }				0.4	mg/kg	23.173	7.415	mg/kg	0.000742 %	✓	
	005-003-00-0	233-657-9	10294-33-4									
53	vinyl chloride; chloroethylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	602-023-00-7	200-831-0	75-01-4									
54	1,1-dichloroethylene; vinylidene chloride				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	602-025-00-8	200-864-0	75-35-4									
55	1,1-dichloroethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	602-011-00-1	200-863-5	75-34-3									
56	2,2-dichloropropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		209-832-0	594-20-7									
57	bromochloromethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		200-826-3	74-97-5									
58	chloroform; trichloromethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	602-006-00-4	200-663-8	67-66-3									
59	1,1,1-trichloroethane; methyl chloroform				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	602-013-00-2	200-756-3	71-55-6									
60	1,1-dichloropropene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	602-031-00-0	209-253-3	563-58-6									
61	carbon tetrachloride; tetrachloromethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	602-008-00-5	200-262-8	56-23-5									
62	benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
63	1,2-dichloroethane; ethylene dichloride				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	602-012-00-7	203-458-1	107-06-2									
64	trichloroethylene; trichloroethene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	602-027-00-9	201-167-4	79-01-6									
65	1,2-dichloropropane; propylene dichloride				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	602-020-00-0	201-152-2	78-87-5									
66	dibromomethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	602-003-00-8	200-824-2	74-95-3									
67	bromodichloromethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		200-856-7	75-27-4									
68	1,3-dichloropropene; [1] (Z)-1,3-dichloropropene [2]				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	602-030-00-5	208-826-5 [1] 233-195-8 [2]	542-75-6 [1] 10061-01-5 [2]									
69	toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3									
70	trans-1,3-dichloropropene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		431-460-4	10061-02-6									
71	1,1,2-trichloroethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	602-014-00-8	201-166-9	79-00-5									
72	tetrachloroethylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	602-028-00-4	204-825-9	127-18-4									
73	1,3-dichloropropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-531-3	142-28-9									
74	dibromochloromethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		204-704-0	124-48-1									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
75	1,2-dibromoethane 602-010-00-6	203-444-5	106-93-4		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
76	chlorobenzene 602-033-00-1	203-628-5	108-90-7		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
77	1,1,1,2-tetrachloroethane 211-135-1	630-20-6			<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
78	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
79	styrene 601-026-00-0	202-851-5	100-42-5		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
80	bromoform; tribromomethane 602-007-00-X	200-854-6	75-25-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
81	cumene 601-024-00-X	202-704-5	98-82-8		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
82	bromobenzene 602-060-00-9	203-623-8	108-86-1		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
83	1,2,3-trichloropropane 602-062-00-X	202-486-1	96-18-4		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
84	propylbenzene 601-097-00-8	203-132-9	103-65-1		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
85	mesitylene; 1,3,5-trimethylbenzene 601-025-00-5	203-604-4	108-67-8		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
86	tert-butylbenzene 202-632-4	98-06-6			<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
87	1,2,4-trimethylbenzene 601-043-00-3	202-436-9	95-63-6		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
88	sec-butylbenzene 205-227-0	135-98-8			<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
89	1-isopropyl-4-methylbenzene; p-cymene 601-094-00-1	202-796-7	99-87-6		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
90	1,3-dichlorobenzene 602-067-00-7	208-792-1	541-73-1		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
91	1,4-dichlorobenzene; p-dichlorobenzene 602-035-00-2	203-400-5	106-46-7		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
92	n-butylbenzene 203-209-7	104-51-8			<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
93	1,2-dichlorobenzene; o-dichlorobenzene 602-034-00-7	202-425-9	95-50-1		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
94	1,2-dibromo-3-chloropropane 602-021-00-6	202-479-3	96-12-8		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
95	1,2,4-trichlorobenzene 602-087-00-6	204-428-0	120-82-1		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
96	hexachlorobutadiene 201-765-5	87-68-3			<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
97	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
98	1,2,3-trichlorobenzene 201-757-1	87-61-6			<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
99	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane 603-181-00-X	216-653-1	1634-04-4		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
100	chromium in Cr(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex } 024-017-00-8				<1 mg/kg	2.27	<2.27 mg/kg	<0.000227 %			<LOD
101	TPH (C6 to C40) petroleum group TPH				<10 mg/kg		<10 mg/kg	<0.001 %			<LOD
102	mercury { mercury(II) sulfide } 215-696-3	1344-48-5			<0.05 mg/kg	1.16	<0.058 mg/kg	<0.0000058 %			<LOD
103	arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex } 033-005-00-1				2.1 mg/kg	1.895	3.183 mg/kg	0.000318 %	✓		
104	cadmium { cadmium sulfate } 048-009-00-9	233-331-6	10124-36-4		<0.1 mg/kg	1.855	<0.185 mg/kg	<0.0000185 %			<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
105		copper { copper sulphate }				8.3	mg/kg	2.512	16.678	mg/kg	0.00167 %	✓	
	029-004-00-0	231-847-6	7758-98-7										
106		molybdenum { molybdenum(VI) oxide }				0.7	mg/kg	1.5	0.84	mg/kg	0.000084 %	✓	
	042-001-00-9	215-204-7	1313-27-5										
107		nickel { nickel dichromate }				5.4	mg/kg	4.68	20.217	mg/kg	0.00202 %	✓	
	028-047-00-2	239-646-5	15586-38-6										
108		lead {  lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	2.8	mg/kg		2.24	mg/kg	0.000224 %	✓	
	082-001-00-6												
109		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.405	<0.703	mg/kg	<0.0000703 %		<LOD
	034-002-00-8												
110		zinc { zinc chromate }				6.4	mg/kg	2.774	14.204	mg/kg	0.00142 %	✓	
	024-007-00-3	236-878-9	13530-65-9										
111		xylene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]										
112		chromium in Cr(III) compounds {  chromium(III) oxide (worst case) }				2.9	mg/kg	1.462	3.391	mg/kg	0.000339 %	✓	
		215-160-9	1308-38-9										
113		2-chlorophenol; [1] 4-chlorophenol; [2] 3-chlorophenol; [3] chlorophenol [4]				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-008-00-0	202-433-2 [1] 203-402-6 [2] 203-582-6 [3] 246-691-4 [4]	95-57-8 [1] 106-48-9 [2] 108-43-0 [3] 25167-80-0 [4]										
114		o-nitroaniline; [1] m-nitroaniline; [2] p-nitroaniline [3]				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
	612-012-00-9	201-855-4 [1] 202-729-1 [2] 202-810-1 [3]	88-74-4 [1] 99-09-2 [2] 100-01-6 [3]										
115		dinitrobenzene; [1] 1,4-dinitrobenzene; [2] 1,3-dinitrobenzene; [3] 1,2-dinitrobenzene [4]				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
	609-004-00-2	246-673-6 [1] 202-833-7 [2] 202-776-8 [3] 208-431-8 [4]	25154-54-5 [1] 100-25-4 [2] 99-65-0 [3] 528-29-0 [4]										
116		1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3]				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
	602-026-00-3	208-750-2 [1] 205-859-7 [2] 205-860-2 [3]	540-59-0 [1] 156-59-2 [2] 156-60-5 [3]										
117		2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
	602-040-00-X	202-424-3 [1] 203-580-5 [2] 203-397-0 [3] 246-698-2 [4]	95-49-8 [1] 108-41-8 [2] 106-43-4 [3] 25168-05-2 [4]										
Total:											0.00693 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Determinand defined by classifier (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: BH5/0.30-0.60/2025-10-08

**Non Hazardous Waste**Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:	
BH5/0.30-0.60/2025-10-08	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.30 m		
Moisture content:		
23%		
(wet weight correction)		

Hazard properties

None identified

Determinands

Moisture content: 23% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				0.3 mg/kg	1.884	0.435 mg/kg	0.0000435 %	✓	
	006-007-00-5									
2	monohydric phenols		P1186		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
3	phenol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
4	aniline				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	612-008-00-7	200-539-3	62-53-3							
5	benzyl alcohol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	603-057-00-5	202-859-9	100-51-6							
6	m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]							
7	Bis(2-Chloroisopropyl)Ether				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		254-554-5	39638-32-9							
8	3,4-xylene; [1] 2,5-xylene; [2] 2,4-xylene; [3] 2,3-xylene; [4] 2,6-xylene; [5] xylene; [6] 2,4(or 2,5)-xylene [7]				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]							
9	bis(2-chloroethoxy)methane				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		203-920-2	111-91-1							
10	2,4-dichlorophenol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	604-011-00-7	204-429-6	120-83-2							
11	chlorocresol; 4-chloro-m-cresol; 4-chloro-3-methylphenol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	604-014-00-3	200-431-6	59-50-7							
12	2-methyl naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		202-078-3	91-57-6							
13	hexachlorocyclopentadiene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	602-078-00-7	201-029-3	77-47-4							

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
14	2,4,6-trichlorophenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
	604-018-00-5	201-795-9	88-06-2									
15	2,4,5-trichlorophenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
	604-017-00-X	202-467-8	95-95-4									
16	2-chloronaphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		202-079-9	91-58-7									
17	2,4-dinitrotoluene; [1] dinitrotoluene [2]				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
	609-007-00-9	204-450-0 [1] 246-836-1 [2]	121-14-2 [1] 25321-14-6 [2]									
18	acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		205-917-1	208-96-8									
19	acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		201-469-6	83-32-9									
20	4-nitrophenol; p-nitrophenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
	609-015-00-2	202-811-7	100-02-7									
21	dibenzofuran				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		205-071-3	132-64-9									
22	2,6-dinitrotoluene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
	609-049-00-8	210-106-0	606-20-2									
23	2,3,4,6-tetrachlorophenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
	604-013-00-8	200-402-8	58-90-2									
24	diethyl phthalate				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		201-550-6	84-66-2									
25	4-chlorophenylphenylether				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		230-281-7	7005-72-3									
26	fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		201-695-5	86-73-7									
27	DNOC (ISO); 4,6-dinitro-o-cresol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
	609-020-00-X	208-601-1	534-52-1									
28	diphenylamine				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
	612-026-00-5	204-539-4	122-39-4									
29	4-bromophenylphenylether				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		202-952-4	101-55-3									
30	hexachlorobenzene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
	602-065-00-6	204-273-9	118-74-1									
31	pentachlorophenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
	604-002-00-8	201-778-6	87-86-5									
32	phenanthrene				0.1	mg/kg		0.077	mg/kg	0.0000077 %	✓	
		201-581-5	85-01-8									
33	anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		204-371-1	120-12-7									
34	dibutyl phthalate; DBP				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
	607-318-00-4	201-557-4	84-74-2									
35	fluoranthene				1.9	mg/kg		1.463	mg/kg	0.000146 %	✓	
		205-912-4	206-44-0									
36	pyrene				1.6	mg/kg		1.232	mg/kg	0.000123 %	✓	
		204-927-3	129-00-0									
37	BBP; benzyl butyl phthalate				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
	607-430-00-3	201-622-7	85-68-7									
38	benzo[a]anthracene				0.6	mg/kg		0.462	mg/kg	0.0000462 %	✓	
	601-033-00-9	200-280-6	56-55-3									
39	chrysene				0.7	mg/kg		0.539	mg/kg	0.0000539 %	✓	
	601-048-00-0	205-923-4	218-01-9									
40	bis(2-ethylhexyl) phthalate; di-(2-ethylhexyl) phthalate; DEHP				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
	607-317-00-9	204-211-0	117-81-7									
41	di-n-octyl phthalate				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		204-214-7	117-84-0									
42	benzo[b]fluoranthene				0.5	mg/kg		0.385	mg/kg	0.0000385 %	✓	
	601-034-00-4	205-911-9	205-99-2									
43	benzo[k]fluoranthene				0.4	mg/kg		0.308	mg/kg	0.0000308 %	✓	
	601-036-00-5	205-916-6	207-08-9									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
44	benzo[a]pyrene; benzo[def]chrysene 601-032-00-3 200-028-5 50-32-8				0.3 mg/kg		0.231 mg/kg		0.0000231 %	✓	
45	indeno[123-cd]pyrene 205-893-2 193-39-5				0.3 mg/kg		0.231 mg/kg		0.0000231 %	✓	
46	dibenz[a,h]anthracene 601-041-00-2 200-181-8 53-70-3				<0.1 mg/kg		<0.1 mg/kg		<0.00001 %		<LOD
47	benzo[ghi]perylene 205-883-8 191-24-2				0.4 mg/kg		0.308 mg/kg		0.0000308 %	✓	
48	dimethyl phthalate 205-011-6 131-11-3				<0.1 mg/kg		<0.1 mg/kg		<0.00001 %		<LOD
49	2,3,5,6-Tetrachlorophenol 935-95-5				<0.1 mg/kg		<0.1 mg/kg		<0.00001 %		<LOD
50	azobenzene 611-001-00-6 203-102-5 103-33-3				<0.1 mg/kg		<0.1 mg/kg		<0.00001 %		<LOD
51	carbazole 201-696-0 86-74-8				<0.1 mg/kg		<0.1 mg/kg		<0.00001 %		<LOD
52	boron { boron tribromide } 005-003-00-0 233-657-9 10294-33-4				0.8 mg/kg	23.173	14.275 mg/kg		0.00143 %	✓	
53	vinyl chloride; chloroethylene 602-023-00-7 200-831-0 75-01-4				<0.01 mg/kg		<0.01 mg/kg		<0.000001 %		<LOD
54	1,1-dichloroethylene; vinylidene chloride 602-025-00-8 200-864-0 75-35-4				<0.01 mg/kg		<0.01 mg/kg		<0.000001 %		<LOD
55	1,1-dichloroethane 602-011-00-1 200-863-5 75-34-3				<0.01 mg/kg		<0.01 mg/kg		<0.000001 %		<LOD
56	2,2-dichloropropane 209-832-0 594-20-7				<0.01 mg/kg		<0.01 mg/kg		<0.000001 %		<LOD
57	bromochloromethane 200-826-3 74-97-5				<0.01 mg/kg		<0.01 mg/kg		<0.000001 %		<LOD
58	chloroform; trichloromethane 602-006-00-4 200-663-8 67-66-3				<0.01 mg/kg		<0.01 mg/kg		<0.000001 %		<LOD
59	1,1,1-trichloroethane; methyl chloroform 602-013-00-2 200-756-3 71-55-6				<0.01 mg/kg		<0.01 mg/kg		<0.000001 %		<LOD
60	1,1-dichloropropene 602-031-00-0 209-253-3 563-58-6				<0.01 mg/kg		<0.01 mg/kg		<0.000001 %		<LOD
61	carbon tetrachloride; tetrachloromethane 602-008-00-5 200-262-8 56-23-5				<0.01 mg/kg		<0.01 mg/kg		<0.000001 %		<LOD
62	benzene 601-020-00-8 200-753-7 71-43-2				<0.01 mg/kg		<0.01 mg/kg		<0.000001 %		<LOD
63	1,2-dichloroethane; ethylene dichloride 602-012-00-7 203-458-1 107-06-2				<0.01 mg/kg		<0.01 mg/kg		<0.000001 %		<LOD
64	trichloroethylene; trichloroethene 602-027-00-9 201-167-4 79-01-6				<0.01 mg/kg		<0.01 mg/kg		<0.000001 %		<LOD
65	1,2-dichloropropane; propylene dichloride 602-020-00-0 201-152-2 78-87-5				<0.01 mg/kg		<0.01 mg/kg		<0.000001 %		<LOD
66	dibromomethane 602-003-00-8 200-824-2 74-95-3				<0.01 mg/kg		<0.01 mg/kg		<0.000001 %		<LOD
67	bromodichloromethane 200-856-7 75-27-4				<0.01 mg/kg		<0.01 mg/kg		<0.000001 %		<LOD
68	1,3-dichloropropene; [1] (Z)-1,3-dichloropropene [2] 602-030-00-5 208-826-5 [1] 542-75-6 [1] 233-195-8 [2] 10061-01-5 [2]				<0.01 mg/kg		<0.01 mg/kg		<0.000001 %		<LOD
69	toluene 601-021-00-3 203-625-9 108-88-3				<0.01 mg/kg		<0.01 mg/kg		<0.000001 %		<LOD
70	trans-1,3-dichloropropene 431-460-4 10061-02-6				<0.01 mg/kg		<0.01 mg/kg		<0.000001 %		<LOD
71	1,1,2-trichloroethane 602-014-00-8 201-166-9 79-00-5				<0.01 mg/kg		<0.01 mg/kg		<0.000001 %		<LOD
72	tetrachloroethylene 602-028-00-4 204-825-9 127-18-4				<0.01 mg/kg		<0.01 mg/kg		<0.000001 %		<LOD
73	1,3-dichloropropane 205-531-3 142-28-9				<0.01 mg/kg		<0.01 mg/kg		<0.000001 %		<LOD
74	dibromochloromethane 204-704-0 124-48-1				<0.01 mg/kg		<0.01 mg/kg		<0.000001 %		<LOD

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
75	1,2-dibromoethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	602-010-00-6	203-444-5	106-93-4									
76	chlorobenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	602-033-00-1	203-628-5	108-90-7									
77	1,1,1,2-tetrachloroethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		211-135-1	630-20-6									
78	ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4									
79	styrene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-026-00-0	202-851-5	100-42-5									
80	bromoform; tribromomethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	602-007-00-X	200-854-6	75-25-2									
81	cumene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-024-00-X	202-704-5	98-82-8									
82	bromobenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	602-060-00-9	203-623-8	108-86-1									
83	1,2,3-trichloropropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	602-062-00-X	202-486-1	96-18-4									
84	propylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-097-00-8	203-132-9	103-65-1									
85	mesitylene; 1,3,5-trimethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-025-00-5	203-604-4	108-67-8									
86	tert-butylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		202-632-4	98-06-6									
87	1,2,4-trimethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-043-00-3	202-436-9	95-63-6									
88	sec-butylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-227-0	135-98-8									
89	1-isopropyl-4-methylbenzene; p-cymene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-094-00-1	202-796-7	99-87-6									
90	1,3-dichlorobenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	602-067-00-7	208-792-1	541-73-1									
91	1,4-dichlorobenzene; p-dichlorobenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	602-035-00-2	203-400-5	106-46-7									
92	n-butylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		203-209-7	104-51-8									
93	1,2-dichlorobenzene; o-dichlorobenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	602-034-00-7	202-425-9	95-50-1									
94	1,2-dibromo-3-chloropropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	602-021-00-6	202-479-3	96-12-8									
95	1,2,4-trichlorobenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	602-087-00-6	204-428-0	120-82-1									
96	hexachlorobutadiene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-765-5	87-68-3									
97	naphthalene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
98	1,2,3-trichlorobenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-757-1	87-61-6									
99	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
100	chromium in Cr(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
	024-017-00-8											
101	TPH (C6 to C40) petroleum group				27.48	mg/kg		21.16	mg/kg	0.00212 %	✓	
			TPH									
102	mercury { mercury(II) sulfide }				<0.05	mg/kg	1.16	<0.058	mg/kg	<0.0000058 %		<LOD
		215-696-3	1344-48-5									
103	arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }				1.7	mg/kg	1.895	2.48	mg/kg	0.000248 %	✓	
	033-005-00-1											
104	cadmium { cadmium sulfate }				<0.1	mg/kg	1.855	<0.185	mg/kg	<0.0000185 %		<LOD
	048-009-00-9	233-331-6	10124-36-4									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
105		copper { copper sulphate }				6.5	mg/kg	2.512	12.571	mg/kg	0.00126 %	✓	
	029-004-00-0	231-847-6	7758-98-7										
106		molybdenum { molybdenum(VI) oxide }				0.6	mg/kg	1.5	0.693	mg/kg	0.0000693 %	✓	
	042-001-00-9	215-204-7	1313-27-5										
107		nickel { nickel dichromate }				4.7	mg/kg	4.68	16.937	mg/kg	0.00169 %	✓	
	028-047-00-2	239-646-5	15586-38-6										
108		lead {  lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	2.4	mg/kg		1.848	mg/kg	0.000185 %	✓	
	082-001-00-6												
109		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.405	<0.703	mg/kg	<0.0000703 %		<LOD
	034-002-00-8												
110		zinc { zinc chromate }				5.1	mg/kg	2.774	10.894	mg/kg	0.00109 %	✓	
	024-007-00-3	236-878-9	13530-65-9										
111		xylene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]										
112		chromium in Cr(III) compounds {  chromium(III) oxide (worst case) }				3.1	mg/kg	1.462	3.489	mg/kg	0.000349 %	✓	
		215-160-9	1308-38-9										
113		2-chlorophenol; [1] 4-chlorophenol; [2] 3-chlorophenol; [3] chlorophenol [4]				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-008-00-0	202-433-2 [1] 203-402-6 [2] 203-582-6 [3] 246-691-4 [4]	95-57-8 [1] 106-48-9 [2] 108-43-0 [3] 25167-80-0 [4]										
114		o-nitroaniline; [1] m-nitroaniline; [2] p-nitroaniline [3]				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
	612-012-00-9	201-855-4 [1] 202-729-1 [2] 202-810-1 [3]	88-74-4 [1] 99-09-2 [2] 100-01-6 [3]										
115		dinitrobenzene; [1] 1,4-dinitrobenzene; [2] 1,3-dinitrobenzene; [3] 1,2-dinitrobenzene [4]				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
	609-004-00-2	246-673-6 [1] 202-833-7 [2] 202-776-8 [3] 208-431-8 [4]	25154-54-5 [1] 100-25-4 [2] 99-65-0 [3] 528-29-0 [4]										
116		1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3]				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
	602-026-00-3	208-750-2 [1] 205-859-7 [2] 205-860-2 [3]	540-59-0 [1] 156-59-2 [2] 156-60-5 [3]										
117		2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
	602-040-00-X	202-424-3 [1] 203-580-5 [2] 203-397-0 [3] 246-698-2 [4]	95-49-8 [1] 108-41-8 [2] 106-43-4 [3] 25168-05-2 [4]										
Total:												0.009 %	

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
•	Determinand defined or amended by HazWasteOnline (see Appendix A)
👤	Determinand defined by classifier (see Appendix A)
🔍	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and ≤ 75°C"

Force this Hazardous Property to non-hazardous for cumulative determinand results below the threshold of: 1000 mg/kg (0.1%) because: No liquid phase present.

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.00212%)

Classification of sample: BH6/0.30-0.60/2025-10-08

**Non Hazardous Waste**Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:	
BH6/0.30-0.60/2025-10-08	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.30 m		
Moisture content:		
28%		
(wet weight correction)		

Hazard properties

None identified

Determinands

Moisture content: 28% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<0.1 mg/kg	1.884	<0.188 mg/kg		<0.0000188 %		<LOD
2	monohydric phenols P1186				<0.3 mg/kg		<0.3 mg/kg		<0.00003 %		<LOD
3	phenol 604-001-00-2 203-632-7 108-95-2				<0.1 mg/kg		<0.1 mg/kg		<0.00001 %		<LOD
4	aniline 612-008-00-7 200-539-3 62-53-3				<0.1 mg/kg		<0.1 mg/kg		<0.00001 %		<LOD
5	benzyl alcohol 603-057-00-5 202-859-9 100-51-6				<0.1 mg/kg		<0.1 mg/kg		<0.00001 %		<LOD
6	m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4] 604-004-00-9 203-577-9 [1] 108-39-4 [1] 202-423-8 [2] 95-48-7 [2] 203-398-6 [3] 106-44-5 [3] 215-293-2 [4] 1319-77-3 [4]				<0.1 mg/kg		<0.1 mg/kg		<0.00001 %		<LOD
7	Bis(2-Chloroisopropyl)Ether 254-554-5 39638-32-9				<0.1 mg/kg		<0.1 mg/kg		<0.00001 %		<LOD
8	3,4-xyleneol; [1] 2,5-xyleneol; [2] 2,4-xyleneol; [3] 2,3-xyleneol; [4] 2,6-xyleneol; [5] xyleneol; [6] 2,4(or 2,5)-xyleneol [7] 604-006-00-X 202-439-5 [1] 95-65-8 [1] 202-461-5 [2] 95-87-4 [2] 203-321-6 [3] 105-67-9 [3] 208-395-3 [4] 526-75-0 [4] 209-400-1 [5] 576-26-1 [5] 215-089-3 [6] 1300-71-6 [6] 276-245-4 [7] 71975-58-1 [7]				<0.1 mg/kg		<0.1 mg/kg		<0.00001 %		<LOD
9	bis(2-chloroethoxy)methane 203-920-2 111-91-1				<0.1 mg/kg		<0.1 mg/kg		<0.00001 %		<LOD
10	2,4-dichlorophenol 604-011-00-7 204-429-6 120-83-2				<0.1 mg/kg		<0.1 mg/kg		<0.00001 %		<LOD
11	chlorocresol; 4-chloro-m-cresol; 4-chloro-3-methylphenol 604-014-00-3 200-431-6 59-50-7				<0.1 mg/kg		<0.1 mg/kg		<0.00001 %		<LOD
12	2-methyl naphthalene 202-078-3 91-57-6				0.2 mg/kg		0.144 mg/kg		0.0000144 %	✓	
13	hexachlorocyclopentadiene 602-078-00-7 201-029-3 77-47-4				<0.1 mg/kg		<0.1 mg/kg		<0.00001 %		<LOD

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
14	2,4,6-trichlorophenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
	604-018-00-5	201-795-9	88-06-2									
15	2,4,5-trichlorophenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
	604-017-00-X	202-467-8	95-95-4									
16	2-chloronaphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		202-079-9	91-58-7									
17	2,4-dinitrotoluene; [1] dinitrotoluene [2]				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
	609-007-00-9	204-450-0 [1] 246-836-1 [2]	121-14-2 [1] 25321-14-6 [2]									
18	acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		205-917-1	208-96-8									
19	acenaphthene				0.13	mg/kg		0.0936	mg/kg	0.00000936 %	✓	
		201-469-6	83-32-9									
20	4-nitrophenol; p-nitrophenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
	609-015-00-2	202-811-7	100-02-7									
21	dibenzofuran				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		205-071-3	132-64-9									
22	2,6-dinitrotoluene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
	609-049-00-8	210-106-0	606-20-2									
23	2,3,4,6-tetrachlorophenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
	604-013-00-8	200-402-8	58-90-2									
24	diethyl phthalate				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		201-550-6	84-66-2									
25	4-chlorophenylphenylether				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		230-281-7	7005-72-3									
26	fluorene				0.2	mg/kg		0.144	mg/kg	0.0000144 %	✓	
		201-695-5	86-73-7									
27	DNOC (ISO); 4,6-dinitro-o-cresol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
	609-020-00-X	208-601-1	534-52-1									
28	diphenylamine				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
	612-026-00-5	204-539-4	122-39-4									
29	4-bromophenylphenylether				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		202-952-4	101-55-3									
30	hexachlorobenzene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
	602-065-00-6	204-273-9	118-74-1									
31	pentachlorophenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
	604-002-00-8	201-778-6	87-86-5									
32	phenanthrene				1.9	mg/kg		1.368	mg/kg	0.000137 %	✓	
		201-581-5	85-01-8									
33	anthracene				0.47	mg/kg		0.338	mg/kg	0.0000338 %	✓	
		204-371-1	120-12-7									
34	dibutyl phthalate; DBP				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
	607-318-00-4	201-557-4	84-74-2									
35	fluoranthene				3.3	mg/kg		2.376	mg/kg	0.000238 %	✓	
		205-912-4	206-44-0									
36	pyrene				2.6	mg/kg		1.872	mg/kg	0.000187 %	✓	
		204-927-3	129-00-0									
37	BBP; benzyl butyl phthalate				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
	607-430-00-3	201-622-7	85-68-7									
38	benzo[a]anthracene				1.4	mg/kg		1.008	mg/kg	0.000101 %	✓	
	601-033-00-9	200-280-6	56-55-3									
39	chrysene				1.1	mg/kg		0.792	mg/kg	0.0000792 %	✓	
	601-048-00-0	205-923-4	218-01-9									
40	bis(2-ethylhexyl) phthalate; di-(2-ethylhexyl) phthalate; DEHP				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
	607-317-00-9	204-211-0	117-81-7									
41	di-n-octyl phthalate				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		204-214-7	117-84-0									
42	benzo[b]fluoranthene				0.9	mg/kg		0.648	mg/kg	0.0000648 %	✓	
	601-034-00-4	205-911-9	205-99-2									
43	benzo[k]fluoranthene				0.51	mg/kg		0.367	mg/kg	0.0000367 %	✓	
	601-036-00-5	205-916-6	207-08-9									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
44	benzo[a]pyrene; benzo[def]chrysene 601-032-00-3	200-028-5	50-32-8		1.2 mg/kg		0.864 mg/kg	0.0000864 %	✓		
45	indeno[123-cd]pyrene 205-893-2	193-39-5			1.1 mg/kg		0.792 mg/kg	0.0000792 %	✓		
46	dibenz[a,h]anthracene 601-041-00-2	200-181-8	53-70-3		0.2 mg/kg		0.144 mg/kg	0.0000144 %	✓		
47	benzo[ghi]perylene 205-883-8	191-24-2			0.78 mg/kg		0.562 mg/kg	0.0000562 %	✓		
48	dimethyl phthalate 205-011-6	131-11-3			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD	
49	2,3,5,6-Tetrachlorophenol 935-95-5				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD	
50	azobenzene 611-001-00-6	203-102-5	103-33-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD	
51	carbazole 201-696-0	86-74-8			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD	
52	boron { boron tribromide } 005-003-00-0	233-657-9	10294-33-4		0.5 mg/kg	23.173	8.342 mg/kg	0.000834 %	✓		
53	vinyl chloride; chloroethylene 602-023-00-7	200-831-0	75-01-4		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD	
54	1,1-dichloroethylene; vinylidene chloride 602-025-00-8	200-864-0	75-35-4		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD	
55	1,1-dichloroethane 602-011-00-1	200-863-5	75-34-3		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD	
56	2,2-dichloropropane 209-832-0	594-20-7			<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD	
57	bromochloromethane 200-826-3	74-97-5			<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD	
58	chloroform; trichloromethane 602-006-00-4	200-663-8	67-66-3		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD	
59	1,1,1-trichloroethane; methyl chloroform 602-013-00-2	200-756-3	71-55-6		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD	
60	1,1-dichloropropene 602-031-00-0	209-253-3	563-58-6		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD	
61	carbon tetrachloride; tetrachloromethane 602-008-00-5	200-262-8	56-23-5		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD	
62	benzene 601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD	
63	1,2-dichloroethane; ethylene dichloride 602-012-00-7	203-458-1	107-06-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD	
64	trichloroethylene; trichloroethene 602-027-00-9	201-167-4	79-01-6		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD	
65	1,2-dichloropropane; propylene dichloride 602-020-00-0	201-152-2	78-87-5		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD	
66	dibromomethane 602-003-00-8	200-824-2	74-95-3		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD	
67	bromodichloromethane 200-856-7	75-27-4			<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD	
68	1,3-dichloropropene; [1] (Z)-1,3-dichloropropene [2] 602-030-00-5	208-826-5 [1] 233-195-8 [2]	542-75-6 [1] 10061-01-5 [2]		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD	
69	toluene 601-021-00-3	203-625-9	108-88-3		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD	
70	trans-1,3-dichloropropene 431-460-4	10061-02-6			<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD	
71	1,1,2-trichloroethane 602-014-00-8	201-166-9	79-00-5		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD	
72	tetrachloroethylene 602-028-00-4	204-825-9	127-18-4		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD	
73	1,3-dichloropropane 205-531-3	142-28-9			<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD	
74	dibromochloromethane 204-704-0	124-48-1			<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD	

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
75	1,2-dibromoethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	602-010-00-6	203-444-5	106-93-4									
76	chlorobenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	602-033-00-1	203-628-5	108-90-7									
77	1,1,1,2-tetrachloroethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		211-135-1	630-20-6									
78	ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4									
79	styrene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-026-00-0	202-851-5	100-42-5									
80	bromoform; tribromomethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	602-007-00-X	200-854-6	75-25-2									
81	cumene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-024-00-X	202-704-5	98-82-8									
82	bromobenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	602-060-00-9	203-623-8	108-86-1									
83	1,2,3-trichloropropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	602-062-00-X	202-486-1	96-18-4									
84	propylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-097-00-8	203-132-9	103-65-1									
85	mesitylene; 1,3,5-trimethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-025-00-5	203-604-4	108-67-8									
86	tert-butylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		202-632-4	98-06-6									
87	1,2,4-trimethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-043-00-3	202-436-9	95-63-6									
88	sec-butylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-227-0	135-98-8									
89	1-isopropyl-4-methylbenzene; p-cymene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-094-00-1	202-796-7	99-87-6									
90	1,3-dichlorobenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	602-067-00-7	208-792-1	541-73-1									
91	1,4-dichlorobenzene; p-dichlorobenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	602-035-00-2	203-400-5	106-46-7									
92	n-butylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		203-209-7	104-51-8									
93	1,2-dichlorobenzene; o-dichlorobenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	602-034-00-7	202-425-9	95-50-1									
94	1,2-dibromo-3-chloropropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	602-021-00-6	202-479-3	96-12-8									
95	1,2,4-trichlorobenzene				0.01	mg/kg		0.0072	mg/kg	0.00000072 %	✓	
	602-087-00-6	204-428-0	120-82-1									
96	hexachlorobutadiene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-765-5	87-68-3									
97	naphthalene				0.03	mg/kg		0.0216	mg/kg	0.00000216 %	✓	
	601-052-00-2	202-049-5	91-20-3									
98	1,2,3-trichlorobenzene				0.01	mg/kg		0.0072	mg/kg	0.00000072 %	✓	
		201-757-1	87-61-6									
99	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
100	chromium in Cr(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
	024-017-00-8											
101	TPH (C6 to C40) petroleum group				<10	mg/kg		<10	mg/kg	<0.001 %		<LOD
			TPH									
102	mercury { mercury(II) sulfide }				<0.05	mg/kg	1.16	<0.058	mg/kg	<0.0000058 %		<LOD
		215-696-3	1344-48-5									
103	arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }				0.8	mg/kg	1.895	1.091	mg/kg	0.000109 %	✓	
	033-005-00-1											
104	cadmium { cadmium sulfate }				<0.1	mg/kg	1.855	<0.185	mg/kg	<0.0000185 %		<LOD
	048-009-00-9	233-331-6	10124-36-4									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value		MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number										
105		copper { copper sulphate }				5.4	mg/kg	2.512	9.765	mg/kg	0.000977 %	✓		
	029-004-00-0	231-847-6	7758-98-7											
106		molybdenum { molybdenum(VI) oxide }				<0.4	mg/kg	1.5	<0.6	mg/kg	<0.00006 %		<LOD	
	042-001-00-9	215-204-7	1313-27-5											
107		nickel { nickel dichromate }				4.1	mg/kg	4.68	13.815	mg/kg	0.00138 %	✓		
	028-047-00-2	239-646-5	15586-38-6											
108		lead {  lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	7.6	mg/kg		5.472	mg/kg	0.000547 %	✓		
	082-001-00-6													
109		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.405	<0.703	mg/kg	<0.0000703 %		<LOD	
	034-002-00-8													
110		zinc { zinc chromate }				5.2	mg/kg	2.774	10.386	mg/kg	0.00104 %	✓		
	024-007-00-3	236-878-9	13530-65-9											
111		polychlorobiphenyls; PCB				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD	
	602-039-00-4	215-648-1	1336-36-3											
112		xylene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD	
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]										
113		chromium in Cr(III) compounds {  chromium(III) oxide (worst case) }				3.8	mg/kg	1.462	3.999	mg/kg	0.0004 %	✓		
		215-160-9	1308-38-9											
114		2-chlorophenol; [1] 4-chlorophenol; [2] 3-chlorophenol; [3] chlorophenol [4]				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD	
		604-008-00-0	202-433-2 [1] 203-402-6 [2] 203-582-6 [3] 246-691-4 [4]	95-57-8 [1] 106-48-9 [2] 108-43-0 [3] 25167-80-0 [4]										
115		o-nitroaniline; [1] m-nitroaniline; [2] p-nitroaniline [3]				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD	
		612-012-00-9	201-855-4 [1] 202-729-1 [2] 202-810-1 [3]	88-74-4 [1] 99-09-2 [2] 100-01-6 [3]										
116		dinitrobenzene; [1] 1,4-dinitrobenzene; [2] 1,3-dinitrobenzene; [3] 1,2-dinitrobenzene [4]				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD	
		609-004-00-2	246-673-6 [1] 202-833-7 [2] 202-776-8 [3] 208-431-8 [4]	25154-54-5 [1] 100-25-4 [2] 99-65-0 [3] 528-29-0 [4]										
117		1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3]				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD	
		602-026-00-3	208-750-2 [1] 205-859-7 [2] 205-860-2 [3]	540-59-0 [1] 156-59-2 [2] 156-60-5 [3]										
118		2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD	
		602-040-00-X	202-424-3 [1] 203-580-5 [2] 203-397-0 [3] 246-698-2 [4]	95-49-8 [1] 108-41-8 [2] 106-43-4 [3] 25168-05-2 [4]										
Total:												0.00644 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Determinand defined by classifier (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: BH1/0.26-0.35/2025-10-08

**Non Hazardous Waste**Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:	
BH1/0.26-0.35/2025-10-08	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.26 m		
Moisture content:		
19%		
(wet weight correction)		

Hazard properties

None identified

Determinands

Moisture content: 19% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				0.2 mg/kg	1.884	0.305 mg/kg	0.0000305 %	✓	
	006-007-00-5									
2	monohydric phenols				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
			P1186							
3	phenol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
4	aniline				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	612-008-00-7	200-539-3	62-53-3							
5	benzyl alcohol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	603-057-00-5	202-859-9	100-51-6							
6	m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]							
7	Bis(2-Chloroisopropyl)Ether				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		254-554-5	39638-32-9							
8	3,4-xyleneol; [1] 2,5-xyleneol; [2] 2,4-xyleneol; [3] 2,3-xyleneol; [4] 2,6-xyleneol; [5] xyleneol; [6] 2,4(or 2,5)-xyleneol [7]				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]							
9	bis(2-chloroethoxy)methane				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		203-920-2	111-91-1							
10	2,4-dichlorophenol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	604-011-00-7	204-429-6	120-83-2							
11	chlorocresol; 4-chloro-m-cresol; 4-chloro-3-methylphenol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	604-014-00-3	200-431-6	59-50-7							
12	2-methyl naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		202-078-3	91-57-6							
13	hexachlorocyclopentadiene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	602-078-00-7	201-029-3	77-47-4							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
14	2,4,6-trichlorophenol 604-018-00-5	201-795-9	88-06-2		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
15	2,4,5-trichlorophenol 604-017-00-X	202-467-8	95-95-4		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
16	2-chloronaphthalene 202-079-9	91-58-7			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
17	2,4-dinitrotoluene; [1] dinitrotoluene [2] 609-007-00-9	204-450-0 [1] 246-836-1 [2]	121-14-2 [1] 25321-14-6 [2]		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
18	acenaphthylene 205-917-1	208-96-8			0.1 mg/kg		0.081 mg/kg	0.0000081 %	✓		
19	acenaphthene 201-469-6	83-32-9			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
20	4-nitrophenol; p-nitrophenol 609-015-00-2	202-811-7	100-02-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
21	dibenzofuran 205-071-3	132-64-9			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
22	2,6-dinitrotoluene 609-049-00-8	210-106-0	606-20-2		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
23	2,3,4,6-tetrachlorophenol 604-013-00-8	200-402-8	58-90-2		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
24	diethyl phthalate 201-550-6	84-66-2			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
25	4-chlorophenylphenylether 230-281-7	7005-72-3			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
26	fluorene 201-695-5	86-73-7			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
27	DNOC (ISO); 4,6-dinitro-o-cresol 609-020-00-X	208-601-1	534-52-1		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
28	diphenylamine 612-026-00-5	204-539-4	122-39-4		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
29	4-bromophenylphenylether 202-952-4	101-55-3			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
30	hexachlorobenzene 602-065-00-6	204-273-9	118-74-1		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
31	pentachlorophenol 604-002-00-8	201-778-6	87-86-5		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
32	phenanthrene 201-581-5	85-01-8			0.5 mg/kg		0.405 mg/kg	0.0000405 %	✓		
33	anthracene 204-371-1	120-12-7			0.2 mg/kg		0.162 mg/kg	0.0000162 %	✓		
34	dibutyl phthalate; DBP 607-318-00-4	201-557-4	84-74-2		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
35	fluoranthene 205-912-4	206-44-0			1.5 mg/kg		1.215 mg/kg	0.000122 %	✓		
36	pyrene 204-927-3	129-00-0			1.7 mg/kg		1.377 mg/kg	0.000138 %	✓		
37	BBP; benzyl butyl phthalate 607-430-00-3	201-622-7	85-68-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
38	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		0.8 mg/kg		0.648 mg/kg	0.0000648 %	✓		
39	chrysene 601-048-00-0	205-923-4	218-01-9		0.9 mg/kg		0.729 mg/kg	0.0000729 %	✓		
40	bis(2-ethylhexyl) phthalate; di-(2-ethylhexyl) phthalate; DEHP 607-317-00-9	204-211-0	117-81-7		0.3 mg/kg		0.243 mg/kg	0.0000243 %	✓		
41	di-n-octyl phthalate 204-214-7	117-84-0			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
42	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		0.7 mg/kg		0.567 mg/kg	0.0000567 %	✓		
43	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		0.5 mg/kg		0.405 mg/kg	0.0000405 %	✓		

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
44	benzo[a]pyrene; benzo[def]chrysene				0.6	mg/kg		0.486	mg/kg	0.0000486 %	✓	
	601-032-00-3	200-028-5	50-32-8									
45	indeno[123-cd]pyrene				0.3	mg/kg		0.243	mg/kg	0.0000243 %	✓	
		205-893-2	193-39-5									
46	dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
47	benzo[ghi]perylene				0.5	mg/kg		0.405	mg/kg	0.0000405 %	✓	
		205-883-8	191-24-2									
48	dimethyl phthalate				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		205-011-6	131-11-3									
49	2,3,5,6-Tetrachlorophenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			935-95-5									
50	azobenzene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
	611-001-00-6	203-102-5	103-33-3									
51	carbazole				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		201-696-0	86-74-8									
52	boron { boron tribromide }				0.7	mg/kg	23.173	13.139	mg/kg	0.00131 %	✓	
	005-003-00-0	233-657-9	10294-33-4									
53	vinyl chloride; chloroethylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	602-023-00-7	200-831-0	75-01-4									
54	1,1-dichloroethylene; vinylidene chloride				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	602-025-00-8	200-864-0	75-35-4									
55	1,1-dichloroethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	602-011-00-1	200-863-5	75-34-3									
56	2,2-dichloropropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		209-832-0	594-20-7									
57	bromochloromethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		200-826-3	74-97-5									
58	chloroform; trichloromethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	602-006-00-4	200-663-8	67-66-3									
59	1,1,1-trichloroethane; methyl chloroform				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	602-013-00-2	200-756-3	71-55-6									
60	1,1-dichloropropene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	602-031-00-0	209-253-3	563-58-6									
61	carbon tetrachloride; tetrachloromethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	602-008-00-5	200-262-8	56-23-5									
62	benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
63	1,2-dichloroethane; ethylene dichloride				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	602-012-00-7	203-458-1	107-06-2									
64	trichloroethylene; trichloroethene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	602-027-00-9	201-167-4	79-01-6									
65	1,2-dichloropropane; propylene dichloride				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	602-020-00-0	201-152-2	78-87-5									
66	dibromomethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	602-003-00-8	200-824-2	74-95-3									
67	bromodichloromethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		200-856-7	75-27-4									
68	1,3-dichloropropene; [1] (Z)-1,3-dichloropropene [2]				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	602-030-00-5	208-826-5 [1] 233-195-8 [2]	542-75-6 [1] 10061-01-5 [2]									
69	toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3									
70	trans-1,3-dichloropropene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		431-460-4	10061-02-6									
71	1,1,2-trichloroethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	602-014-00-8	201-166-9	79-00-5									
72	tetrachloroethylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	602-028-00-4	204-825-9	127-18-4									
73	1,3-dichloropropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-531-3	142-28-9									
74	dibromochloromethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		204-704-0	124-48-1									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
75	1,2-dibromoethane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	602-010-00-6	203-444-5	106-93-4								
76	chlorobenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	602-033-00-1	203-628-5	108-90-7								
77	1,1,1,2-tetrachloroethane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		211-135-1	630-20-6								
78	ethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
79	styrene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-026-00-0	202-851-5	100-42-5								
80	bromoform; tribromomethane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	602-007-00-X	200-854-6	75-25-2								
81	cumene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-024-00-X	202-704-5	98-82-8								
82	bromobenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	602-060-00-9	203-623-8	108-86-1								
83	1,2,3-trichloropropane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	602-062-00-X	202-486-1	96-18-4								
84	propylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-097-00-8	203-132-9	103-65-1								
85	mesitylene; 1,3,5-trimethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-025-00-5	203-604-4	108-67-8								
86	tert-butylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		202-632-4	98-06-6								
87	1,2,4-trimethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-043-00-3	202-436-9	95-63-6								
88	sec-butylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		205-227-0	135-98-8								
89	1-isopropyl-4-methylbenzene; p-cymene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-094-00-1	202-796-7	99-87-6								
90	1,3-dichlorobenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	602-067-00-7	208-792-1	541-73-1								
91	1,4-dichlorobenzene; p-dichlorobenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	602-035-00-2	203-400-5	106-46-7								
92	n-butylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		203-209-7	104-51-8								
93	1,2-dichlorobenzene; o-dichlorobenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	602-034-00-7	202-425-9	95-50-1								
94	1,2-dibromo-3-chloropropane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	602-021-00-6	202-479-3	96-12-8								
95	1,2,4-trichlorobenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	602-087-00-6	204-428-0	120-82-1								
96	hexachlorobutadiene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		201-765-5	87-68-3								
97	naphthalene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
98	1,2,3-trichlorobenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		201-757-1	87-61-6								
99	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	603-181-00-X	216-653-1	1634-04-4								
100	chromium in Cr(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1 mg/kg	2.27	<2.27 mg/kg	<0.000227 %			<LOD
	024-017-00-8										
101	TPH (C6 to C40) petroleum group				177.9 mg/kg		144.099 mg/kg	0.0144 %	✓		
			TPH								
102	mercury { mercury(II) sulfide }				<0.05 mg/kg	1.16	<0.058 mg/kg	<0.0000058 %			<LOD
		215-696-3	1344-48-5								
103	arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }				11 mg/kg	1.895	16.88 mg/kg	0.00169 %	✓		
	033-005-00-1										
104	cadmium { cadmium sulfate }				<0.1 mg/kg	1.855	<0.185 mg/kg	<0.0000185 %			<LOD
	048-009-00-9	233-331-6	10124-36-4								

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used	
		EU CLP index number	EC Number	CAS Number										
105		copper { copper sulphate }				58	mg/kg	2.512	118	mg/kg	0.0118 %	✓		
		029-004-00-0	231-847-6	7758-98-7										
106		molybdenum { molybdenum(VI) oxide }				8.3	mg/kg	1.5	10.086	mg/kg	0.00101 %	✓		
		042-001-00-9	215-204-7	1313-27-5										
107		nickel { nickel dichromate }				33	mg/kg	4.68	125.095	mg/kg	0.0125 %	✓		
		028-047-00-2	239-646-5	15586-38-6										
108		lead {  lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	14	mg/kg		11.34	mg/kg	0.00113 %	✓		
		082-001-00-6												
109		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.405	<0.703	mg/kg	<0.0000703 %		<LOD	
		034-002-00-8												
110		zinc { zinc chromate }				38	mg/kg	2.774	85.388	mg/kg	0.00854 %	✓		
		024-007-00-3	236-878-9	13530-65-9										
111		xylene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD	
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]										
112		chromium in Cr(III) compounds {  chromium(III) oxide (worst case) }				11	mg/kg	1.462	13.022	mg/kg	0.0013 %	✓		
			215-160-9	1308-38-9										
113		2-chlorophenol; [1] 4-chlorophenol; [2] 3-chlorophenol; [3] chlorophenol [4]				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD	
		604-008-00-0	202-433-2 [1] 203-402-6 [2] 203-582-6 [3] 246-691-4 [4]	95-57-8 [1] 106-48-9 [2] 108-43-0 [3] 25167-80-0 [4]										
114		o-nitroaniline; [1] m-nitroaniline; [2] p-nitroaniline [3]				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD	
		612-012-00-9	201-855-4 [1] 202-729-1 [2] 202-810-1 [3]	88-74-4 [1] 99-09-2 [2] 100-01-6 [3]										
115		dinitrobenzene; [1] 1,4-dinitrobenzene; [2] 1,3-dinitrobenzene; [3] 1,2-dinitrobenzene [4]				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD	
		609-004-00-2	246-673-6 [1] 202-833-7 [2] 202-776-8 [3] 208-431-8 [4]	25154-54-5 [1] 100-25-4 [2] 99-65-0 [3] 528-29-0 [4]										
116		1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3]				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD	
		602-026-00-3	208-750-2 [1] 205-859-7 [2] 205-860-2 [3]	540-59-0 [1] 156-59-2 [2] 156-60-5 [3]										
117		2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD	
		602-040-00-X	202-424-3 [1] 203-580-5 [2] 203-397-0 [3] 246-698-2 [4]	95-49-8 [1] 108-41-8 [2] 106-43-4 [3] 25168-05-2 [4]										
Total:												0.0544 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Determinand defined by classifier (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous Property to non-hazardous for cumulative determinand results below the threshold of: 1000 mg/kg (0.1%) because: No liquid phase present.

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.0144%)

Appendix A: Classifier defined and non GB MCL determinands

- **salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex**

GB MCL index number: 006-007-00-5

Description/Comments: Conversion factor based on a worst case compound: sodium cyanide

Additional Hazard Statement(s): EUH032 >= 0.2 %

Reason for additional Hazards Statement(s):

20 Nov 2021 - EUH032 >= 0.2 % hazard statement sourced from: WM3, Table C12.2

- **monohydric phenols (CAS Number: P1186)**

Description/Comments: Combined hazards statements from harmonised entries in CLP for phenol, cresols and xylenols (604-001-00-2, 604-004-00-9, 604-006-00-X)

Data source: CLP combined data

Data source date: 26 Mar 2019

Hazard Statements: Muta. 2; H341 , Acute Tox. 3; H331 , Acute Tox. 3; H311 , Acute Tox. 3; H301 , STOT RE 2; H373 , Skin Corr. 1B; H314 , Skin Corr. 1B; H314 >= 3 % , Skin Irrit. 2; H315 1 <= conc. < 3 % , Eye Irrit. 2; H319 1 <= conc. < 3 % , Aquatic Chronic 2; H411

- **acenaphthylene (EC Number: 205-917-1, CAS Number: 208-96-8)**

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 17 Jul 2015

Hazard Statements: Acute Tox. 4; H302 , Acute Tox. 1; H330 , Acute Tox. 1; H310 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315

- **acenaphthene (EC Number: 201-469-6, CAS Number: 83-32-9)**

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 17 Jul 2015

Hazard Statements: Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410 , Aquatic Chronic 2; H411

- **fluorene (EC Number: 201-695-5, CAS Number: 86-73-7)**

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 06 Aug 2015

Hazard Statements: Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

- **phenanthrene (EC Number: 201-581-5, CAS Number: 85-01-8)**

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 06 Aug 2015

Hazard Statements: Acute Tox. 4; H302 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Carc. 2; H351 , Skin Sens. 1; H317 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410 , Skin Irrit. 2; H315

- **anthracene (EC Number: 204-371-1, CAS Number: 120-12-7)**

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 17 Jul 2015

Hazard Statements: Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315 , Skin Sens. 1; H317 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

- **fluoranthene (EC Number: 205-912-4, CAS Number: 206-44-0)**

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 21 Aug 2015

Hazard Statements: Acute Tox. 4; H302 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

- **pyrene (EC Number: 204-927-3, CAS Number: 129-00-0)**

Description/Comments: Data from C&L Inventory Database; SDS Sigma Aldrich 2014

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 21 Aug 2015

Hazard Statements: Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

- **indeno[123-cd]pyrene (EC Number: 205-893-2, CAS Number: 193-39-5)**

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 06 Aug 2015

Hazard Statements: Carc. 2; H351

■ **benzo[ghi]perylene** (EC Number: 205-883-8, CAS Number: 191-24-2)

Description/Comments: Data from C&L Inventory Database; SDS Sigma Aldrich 28/02/2015
 Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
 Data source date: 23 Jul 2015
 Hazard Statements: Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

■ **ethylbenzene** (EC Number: 202-849-4, CAS Number: 100-41-4)

GB MCL index number: 601-023-00-4
 Description/Comments:
 Additional Hazard Statement(s): Carc. 2; H351
 Reason for additional Hazards Statement(s):
 20 Nov 2021 - Carc. 2; H351 hazard statement sourced from: IARC Group 2B (77) 2000

■ **TPH (C6 to C40) petroleum group** (CAS Number: TPH)

Description/Comments: Unknown Oil

 Hazard statements taken from WM3 1st Edition 2015
 Data source: WM3 1st Edition 2015
 Data source date: 25 May 2015
 Hazard Statements: Flam. Liq. 3; H226 , Asp. Tox. 1; H304 , STOT RE 2; H373 , Muta. 1B; H340 , Carc. 1B; H350 , Repr. 2; H361d , Aquatic Chronic 2; H411

■ **mercury(II) sulfide** (EC Number: 215-696-3, CAS Number: 1344-48-5)

Description/Comments: Data from ECHA's C&L and SDS Sigma Aldrich V6 dated 17/9/2019

 Threshold for EUH031 based on calculation method in WM3 Box C12.1
 Data source: <https://echa.europa.eu/information-on-chemicals/cl-inventory-database/-/discli/details/8530>
 Data source date: 14 May 2020
 Hazard Statements: EUH031 >= 1 % , EUH031 , Skin Sens. 1; H317 , STOT RE 2; H373

■ **lead compounds with the exception of those specified elsewhere in this Annex (worst case)**

GB MCL index number: 082-001-00-6
 Description/Comments: Worst Case: IARC considers lead compounds Group 2A; Probably carcinogenic to humans; Lead REACH Consortium, following MCL protocols, considers lead compounds from smelting industries, flue dust and similar to be Carcinogenic category 1A
 Additional Hazard Statement(s): Carc. 1A; H350
 Reason for additional Hazards Statement(s):
 20 Nov 2021 - Carc. 1A; H350 hazard statement sourced from: IARC Group 2A (Sup 7, 87) 2006; Lead REACH Consortium www.reach-lead.eu/substanceinformation.html (worst case lead compounds). Review date 29/09/2015

■ **polychlorobiphenyls; PCB** (EC Number: 215-648-1, CAS Number: 1336-36-3)

GB MCL index number: 602-039-00-4
 Description/Comments: Worst Case: IARC considers PCB Group 1; Carcinogenic to humans;

 POP specific threshold from ATP1 (Regulation 756/2010/EU) to POPs Regulation (Regulation 850/2004/EC). Where applicable, the calculation method laid down in European standards EN 12766-1 and EN 12766-2 shall be applied.
 Additional Hazard Statement(s): Carc. 1A; H350
 Reason for additional Hazards Statement(s):
 20 Nov 2021 - Carc. 1A; H350 hazard statement sourced from: IARC Group 1 (23, Sup 7, 100C) 2012

■ **chromium(III) oxide (worst case)** (EC Number: 215-160-9, CAS Number: 1308-38-9)

Description/Comments: Data from C&L Inventory Database
 Data source: <https://echa.europa.eu/information-on-chemicals/cl-inventory-database/-/discli/details/33806>
 Data source date: 17 Jul 2015
 Hazard Statements: Acute Tox. 4; H332 , Acute Tox. 4; H302 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315 , Resp. Sens. 1; H334 , Skin Sens. 1; H317 , Repr. 1B; H360FD , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

■ **Bis(2-Chloroisopropyl)Ether** (EC Number: 254-554-5, CAS Number: 39638-32-9)

Description/Comments:
 Data source: [ECHA CLP Database](#)
 Data source date: 04 Jan 2019
 Hazard Statements: [Acute Tox. 3; H301](#) , Muta. 2; H341

■ **bis(2-chloroethoxy)methane** (EC Number: 203-920-2, CAS Number: 111-91-1)

Description/Comments: VOC; Data from C&L Inventory Database
 Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
 Data source date: 02 Mar 2017
 Hazard Statements: Acute Tox. 3; H301 , Acute Tox. 4; H312 , Acute Tox. 1; H330 , Acute Tox. 2; H330 , STOT SE 1; H370 , STOT RE 2; H373

• **2-methyl naphthalene** (EC Number: 202-078-3, CAS Number: 91-57-6)

Description/Comments: VOC; Data from C&L Inventory Database

Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 02 Mar 2017

Hazard Statements: Acute Tox. 4; H302 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335 , STOT SE 3; H336 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

• **2-chloronaphthalene** (EC Number: 202-079-9, CAS Number: 91-58-7)

Description/Comments: VOC; Data from C&L Inventory Database

Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 02 Mar 2017

Hazard Statements: Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315

• **dibenzofuran** (EC Number: 205-071-3, CAS Number: 132-64-9)

Description/Comments: VOC; Data from C&L Inventory Database

Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 02 Mar 2017

Hazard Statements: Acute Tox. 4; H302 , Acute Tox. 4; H312 , Acute Tox. 4; H332 , Aquatic Chronic 2; H411

• **diethyl phthalate** (EC Number: 201-550-6, CAS Number: 84-66-2)

Description/Comments: VOC; Data from C&L Inventory Database

Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 02 Mar 2017

Hazard Statements: Skin Irrit. 2; H315 , Acute Tox. 3; H331 , Acute Tox. 3; H311 , STOT SE 3; H335 , STOT RE 2; H373 , Repr. 2; H361 , Acute Tox. 4; H302 , STOT SE 3; H336 , Skin Sens. 1; H317 , Aquatic Chronic 1; H410

• **4-chlorophenylphenylether** (EC Number: 230-281-7, CAS Number: 7005-72-3)

Description/Comments: VOC; Data from C&L Inventory Database

Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 02 Mar 2017

Hazard Statements: Acute Tox. 4; H302 , Skin Irrit. 2; H315 , Skin Sens. 1; H317 , Eye Dam. 1; H318 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

• **4-bromophenylphenylether** (EC Number: 202-952-4, CAS Number: 101-55-3)

Description/Comments: VOC; Data from C&L Inventory Database

Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 02 Mar 2017

Hazard Statements: Acute Tox. 4; H302 , Skin Irrit. 2; H315 , Skin Sens. 1; H317 , Eye Dam. 1; H318 , Eye Irrit. 2; H319 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

• **di-n-octyl phthalate** (EC Number: 204-214-7, CAS Number: 117-84-0)

Description/Comments: VOC; Data from C&L Inventory Database

Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 02 Mar 2017

Hazard Statements: Repr. 2; H361 , Skin Sens. 1; H317 , Resp. Sens. 1; H334 , Eye Irrit. 2; H319 , Aquatic Chronic 4; H413

• **dimethyl phthalate** (EC Number: 205-011-6, CAS Number: 131-11-3)

Description/Comments: VOC; Data from C&L Inventory Database

Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 02 Mar 2017

Hazard Statements: Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , Acute Tox. 3; H331 , STOT SE 3; H335 , STOT SE 3; H336 , Repr. 2; H361 , Aquatic Chronic 3; H412

 2,3,5,6-Tetrachlorophenol (CAS Number: 935-95-5)

Description/Comments:

Data source: CLP

Data source date: 14 Jun 2023

Hazard Statements: Acute Tox. 3; H301 , Skin Irrit. 2; H315 , Eye Dam. 1; H318 , STOT SE 3; H335 , Aquatic Chronic 4; H413

• **carbazole** (EC Number: 201-696-0, CAS Number: 86-74-8)

Description/Comments: VOC; Data from C&L Inventory Database; IARC considers substance Group 2B;

Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 02 Mar 2017

Hazard Statements: Acute Tox. 4; H302 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Muta. 2; H341 , Carc. 2; H351 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410 , Acute Tox. 3; H331 , Acute Tox. 3; H311 , Acute Tox. 3; H301

• **2,2-dichloropropane** (EC Number: 209-832-0, CAS Number: 594-20-7)

Description/Comments: VOC; Data from C&L Inventory Database

Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 02 Mar 2017

Hazard Statements: Acute Tox. 4; H332 , Flam. Liq. 2; H225 , Acute Tox. 4; H302 , Acute Tox. 4; H312 , Eye Irrit. 2; H319

• bromochloromethane (EC Number: 200-826-3, CAS Number: 74-97-5)

Description/Comments: VOC; Data from C&L Inventory Database

Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 02 Mar 2017

Hazard Statements: Acute Tox. 4; H312 , Skin Corr. 1B; H314 , Eye Dam. 1; H318 , Acute Tox. 4; H332 , STOT SE 3; H335 , Skin Irrit. 2; H315 , Ozone 1; H420

• bromodichloromethane (EC Number: 200-856-7, CAS Number: 75-27-4)

Description/Comments: VOC; Data from C&L Inventory Database; IARC considers substance Group 2B;

Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 02 Mar 2017

Hazard Statements: Acute Tox. 4; H302 , Skin Irrit. 2; H315 , Eye Dam. 1; H318 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Muta. 1B; H340 , Carc. 1B; H350 , Repr. 1A; H360

• trans-1,3-dichloropropene (EC Number: 431-460-4, CAS Number: 10061-02-6)

Description/Comments: VOC; Data from C&L Inventory Database

Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 02 Mar 2017

Hazard Statements: Flam. Liq. 3; H226 , Acute Tox. 3; H301 , Asp. Tox. 1; H304 , Acute Tox. 3; H311 , Skin Irrit. 2; H315 , Skin Sens. 1; H317 , Eye Irrit. 2; H319 , Acute Tox. 4; H332 , STOT SE 3; H335 , Aquatic Chronic 1; H410

• 1,3-dichloropropane (EC Number: 205-531-3, CAS Number: 142-28-9)

Description/Comments: VOC; Data from C&L Inventory Database

Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 02 Mar 2017

Hazard Statements: Acute Tox. 4; H332 , Flam. Liq. 2; H225 , Flam. Liq. 3; H226 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335

• dibromochloromethane (EC Number: 204-704-0, CAS Number: 124-48-1)

Description/Comments: VOC; Data from C&L Inventory Database; IARC considers substance Group 3;

Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 02 Mar 2017

Hazard Statements: Acute Tox. 4; H302 , Acute Tox. 4; H312 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , Acute Tox. 4; H332 , STOT SE 3; H335 , STOT SE 3; H336 , Muta. 2; H341 , Aquatic Chronic 2; H411

• 1,1,1,2-tetrachloroethane (EC Number: 211-135-1, CAS Number: 630-20-6)

Description/Comments: VOC; Data from C&L Inventory Database; IARC considers substance Group 2B;

Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 02 Mar 2017

Hazard Statements: Acute Tox. 4; H302 , Acute Tox. 1; H310 , Eye Irrit. 2; H319 , Acute Tox. 3; H331 , Eye Dam. 1; H318 , Acute Tox. 4; H332 , Carc. 2; H351 , Acute Tox. 4; H312 , Aquatic Chronic 3; H412 , Skin Irrit. 2; H315

• tert-butylbenzene (EC Number: 202-632-4, CAS Number: 98-06-6)

Description/Comments: VOC; Data from C&L Inventory Database

Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 02 Mar 2017

Hazard Statements: Flam. Liq. 3; H226 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , Acute Tox. 3; H331 , Acute Tox. 4; H332 , STOT SE 3; H335 , Asp. Tox. 1; H304 , Aquatic Chronic 2; H411

• sec-butylbenzene (EC Number: 205-227-0, CAS Number: 135-98-8)

Description/Comments: VOC; Data from C&L Inventory Database

Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 02 Mar 2017

Hazard Statements: Flam. Liq. 3; H226 , Asp. Tox. 1; H304 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , Aquatic Chronic 2; H411

• n-butylbenzene (EC Number: 203-209-7, CAS Number: 104-51-8)

Description/Comments: VOC; Data from C&L Inventory Database

Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 02 Mar 2017

Hazard Statements: Flam. Liq. 3; H226 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

• hexachlorobutadiene (EC Number: 201-765-5, CAS Number: 87-68-3)

Description/Comments: VOC; Data from C&L Inventory Database; IARC considers substance Group 3;

Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 02 Mar 2017

Hazard Statements: Acute Tox. 3; H301 , Acute Tox. 2; H310 , Skin Irrit. 2; H315 , Skin Sens. 1; H317 , Eye Irrit. 2; H319 , Acute Tox. 2; H330 , Carc. 2; H351 , Repr. 2; H361 , STOT SE 2; H371 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

• 1,2,3-trichlorobenzene (EC Number: 201-757-1, CAS Number: 87-61-6)

Description/Comments: VOC; Data from C&L Inventory Database

Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 02 Mar 2017

Hazard Statements: Acute Tox. 4; H302 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335 , STOT SE 3; H336 , Aquatic Acute 1; H400 , Aquatic Chronic 3; H410

Appendix B: Rationale for selection of metal species

cyanides {salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex}

Worst case species likely to be present.

boron {boron tribromide}

Worst case species likely to be present.

chromium in Cr(VI) compounds {chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex}

Worst case species likely to be present.

mercury {mercury(II) sulfide}

Worst case species likely to be present.

arsenic {arsenic acid and its salts with the exception of those specified elsewhere in this Annex}

Worst case species likely to be present.

cadmium {cadmium sulfate}

Worst case species likely to be present.

copper {copper sulphate}

Worst case species likely to be present.

molybdenum {molybdenum(VI) oxide}

Worst case species likely to be present.

nickel {nickel dichromate}

Worst case species likely to be present.

lead {lead compounds with the exception of those specified elsewhere in this Annex (worst case)}

Worst case species likely to be present.

selenium {selenium compounds with the exception of cadmium sulposelenide and those specified elsewhere in this Annex}

Worst case species likely to be present.

zinc {zinc chromate}

Worst case species likely to be present.

chromium in Cr(III) compounds {chromium(III) oxide (worst case)}

Worst case species likely to be present.

Appendix C: Version

HazWasteOnline Classification Engine: WM3 1st Edition v1.2.GB - Oct 2021

HazWasteOnline Classification Engine Version: 2025.315.6855.12400 (11 Nov 2025)

HazWasteOnline Database: 2025.315.6855.12400 (11 Nov 2025)

This classification utilises the following guidance and legislation:

WM3 v1.2.GB - Waste Classification - 1st Edition v1.2.GB - Oct 2021

CLP Regulation - Regulation 1272/2008/EC of 16 December 2008

1st ATP - Regulation 790/2009/EC of 10 August 2009

2nd ATP - Regulation 286/2011/EC of 10 March 2011

3rd ATP - Regulation 618/2012/EU of 10 July 2012

4th ATP - Regulation 487/2013/EU of 8 May 2013

Correction to 1st ATP - Regulation 758/2013/EU of 7 August 2013

5th ATP - Regulation 944/2013/EU of 2 October 2013

6th ATP - Regulation 605/2014/EU of 5 June 2014

WFD Annex III replacement - Regulation 1357/2014/EU of 18 December 2014

Revised List of Waste 2014 - Decision 2014/955/EU of 18 December 2014

7th ATP - Regulation 2015/1221/EU of 24 July 2015

8th ATP - Regulation (EU) 2016/918 of 19 May 2016

9th ATP - Regulation (EU) 2016/1179 of 19 July 2016

10th ATP - Regulation (EU) 2017/776 of 4 May 2017

HP14 amendment - Regulation (EU) 2017/997 of 8 June 2017

13th ATP - Regulation (EU) 2018/1480 of 4 October 2018

14th ATP - Regulation (EU) 2020/217 of 4 October 2019

15th ATP - Regulation (EU) 2020/1182 of 19 May 2020

The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use)(Amendment etc.) (EU Exit)

Regulations 2020 - UK: 2020 No. 1567 of 16th December 2020

The Waste and Environmental Permitting etc. (Legislative Functions and Amendment etc.) (EU Exit) Regulations 2020 - UK: 2020 No. 1540 of 16th December 2020

GB MCL List - version 1.1 of 09 June 2021

GB MCL List v2.0 - version 2.0 of 20th October 2023

GB MCL List v3.0 - version 3.0 of 11th January 2024

GB MCL List v4.0 - version 4.0 of 2nd March 2024

GB MCL List v5.0 - version 5.0 of 26th June 2024

GB MCL List v6.0 - version 6.0 of 15th February 2025

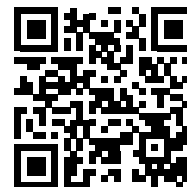
GB MCL List v7.0 - version 7.0 of 23rd September 2025

Waste Classification Report

HazWasteOnline™ classifies waste as either **hazardous** or **non-hazardous** based on its chemical composition, related legislation and the rules and data defined in the current UK or EU technical guidance (Appendix C) (note that HP 9 Infectious is not assessed). It is the responsibility of the classifier named below to:

- understand the origin of the waste
- select the correct List of Waste code(s)
- confirm that the list of determinands, results and sampling plan are fit for purpose
- select and justify the chosen metal species (Appendix B)
- correctly apply moisture correction and other available corrections
- add the meta data for their user-defined substances (Appendix A)
- check that the classification engine is suitable with respect to the national destination of the waste (Appendix C)

To aid the reviewer, the laboratory results, assumptions and justifications managed by the classifier are highlighted in pale yellow.



4BLIQ-4D7Z1-UO5K4

Report is invalid if pages are removed.

Job name

8216A - Natural

Description/Comments

25-24053

Project

New Modular Offices

Site

Former 420 Building, BAE Systems, Samlesbury Aerodrome

Classified by

Name: **David Ravenscroft-Jones** Company: **Sub Surface Consultants**
Date: **12 Nov 2025 14:20 GMT**
Telephone: **01772 561135**

HazWasteOnline™ provides a two day, hazardous waste classification course that covers the use of the software and both basic and advanced waste classification techniques. Certification has to be renewed every 3 years.

HazWasteOnline™ Certification:

Course
Hazardous Waste Classification

Date

Purpose of classification

2 - Material Characterisation

Address of the waste

Former 420 Building, BAE Systems, Samlesbury Aerodrome, Balderstone, Lancashire,

Post Code **BB2 7LF**

SIC for the process giving rise to the waste

41201 Construction of commercial buildings

Description of industry/producer giving rise to the waste

Made ground derived from past development.

Description of the specific process, sub-process and/or activity that created the waste

Waste created during site strip and excavation for foundations.

Description of the waste

Made ground comprising dark grey ashy sandy fine to coarse gravel sized fragments of stone and clinker.

Job summary

#	Sample name	Depth [m]	Classification Result	Hazard properties	Page
1	BH2/0.60-1.20/2025-10-08	1.2	Non Hazardous		3
2	BH3/0.60-1.00/2025-10-08	0.60	Non Hazardous		5
3	BH5/0.60-1.20/2025-10-08	0.60	Non Hazardous		7
4	BH6/0.60-1.20/2025-10-08	0.60	Non Hazardous		9
5	BH1/0.35-0.75/2025-10-08	0.35	Non Hazardous		11

Related documents

#	Name	Description
1	25-24053.hwol	DETS North .hwol file used to populate the Job
2	Classification Report-8216A.pdf	Classification for Job: 8216A

Report

Created by: David Ravenscroft-Jones

Created date: 12 Nov 2025 14:20 GMT

Appendices	Page
Appendix A: Classifier defined and non GB MCL determinands	13
Appendix B: Rationale for selection of metal species	14
Appendix C: Version	15

Classification of sample: BH2/0.60-1.20/2025-10-08

**Non Hazardous Waste**Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:	
BH2/0.60-1.20/2025-10-08	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
1.2 m		
Moisture content:		
14%		
(wet weight correction)		

Hazard properties

None identified

Determinands

Moisture content: 14% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.1	mg/kg	1.884	<0.188	mg/kg	<0.0000188 %		<LOD
	006-007-00-5											
2	monohydric phenols				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
			P1186									
3	acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		205-917-1	208-96-8									
4	acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		201-469-6	83-32-9									
5	fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		201-695-5	86-73-7									
6	phenanthrene				0.27	mg/kg		0.232	mg/kg	0.0000232 %	✓	
		201-581-5	85-01-8									
7	anthracene				0.1	mg/kg		0.086	mg/kg	0.0000086 %	✓	
		204-371-1	120-12-7									
8	fluoranthene				0.35	mg/kg		0.301	mg/kg	0.0000301 %	✓	
		205-912-4	206-44-0									
9	pyrene				0.21	mg/kg		0.181	mg/kg	0.0000181 %	✓	
		204-927-3	129-00-0									
10	benzo[a]anthracene				0.25	mg/kg		0.215	mg/kg	0.0000215 %	✓	
	601-033-00-9	200-280-6	56-55-3									
11	chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
	601-048-00-0	205-923-4	218-01-9									
12	benzo[b]fluoranthene				0.21	mg/kg		0.181	mg/kg	0.0000181 %	✓	
	601-034-00-4	205-911-9	205-99-2									
13	benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
	601-036-00-5	205-916-6	207-08-9									
14	benzo[a]pyrene; benzo[def]chrysene				0.12	mg/kg		0.103	mg/kg	0.0000103 %	✓	
	601-032-00-3	200-028-5	50-32-8									
15	indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		205-893-2	193-39-5									
16	dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
17	benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		205-883-8	191-24-2									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
18		boron { boron tribromide }				0.5	mg/kg	23.173	9.964	mg/kg	0.000996 %	✓	
		005-003-00-0	233-657-9	10294-33-4									
19		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
20		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
21		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
22		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
23		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
24		chromium in Cr(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
		024-017-00-8											
25		TPH (C6 to C40) petroleum group				<10	mg/kg		<10	mg/kg	<0.001 %		<LOD
				TPH									
26		mercury {  mercury(II) sulfide }				<0.05	mg/kg	1.16	<0.058	mg/kg	<0.0000058 %		<LOD
			215-696-3	1344-48-5									
27		arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }				1.1	mg/kg	1.895	1.792	mg/kg	0.000179 %	✓	
		033-005-00-1											
28		cadmium { cadmium sulfate }				0.2	mg/kg	1.855	0.319	mg/kg	0.0000319 %	✓	
		048-009-00-9	233-331-6	10124-36-4									
29		copper { copper sulphate }				11	mg/kg	2.512	23.761	mg/kg	0.00238 %	✓	
		029-004-00-0	231-847-6	7758-98-7									
30		molybdenum { molybdenum(VI) oxide }				2.2	mg/kg	1.5	2.838	mg/kg	0.000284 %	✓	
		042-001-00-9	215-204-7	1313-27-5									
31		nickel { nickel dichromate }				7.2	mg/kg	4.68	28.978	mg/kg	0.0029 %	✓	
		028-047-00-2	239-646-5	15586-38-6									
32		lead {  lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	6.9	mg/kg		5.934	mg/kg	0.000593 %	✓	
		082-001-00-6											
33		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.405	<0.703	mg/kg	<0.0000703 %		<LOD
		034-002-00-8											
34		zinc { zinc chromate }				8.3	mg/kg	2.774	19.802	mg/kg	0.00198 %	✓	
		024-007-00-3	236-878-9	13530-65-9									
35		xylene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
36		chromium in Cr(III) compounds {  chromium(III) oxide (worst case) }				8.9	mg/kg	1.462	11.187	mg/kg	0.00112 %	✓	
			215-160-9	1308-38-9									
Total:												0.0106 %	

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
•	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: BH3/0.60-1.00/2025-10-08

**Non Hazardous Waste**Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:	
BH3/0.60-1.00/2025-10-08	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.60 m		
Moisture content:		
15%		
(wet weight correction)		

Hazard properties

None identified

Determinands

Moisture content: 15% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.1	mg/kg	1.884	<0.188	mg/kg	<0.0000188 %		<LOD
	006-007-00-5											
2	monohydric phenols				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
			P1186									
3	acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		205-917-1	208-96-8									
4	acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		201-469-6	83-32-9									
5	fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		201-695-5	86-73-7									
6	phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		201-581-5	85-01-8									
7	anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		204-371-1	120-12-7									
8	fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		205-912-4	206-44-0									
9	pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		204-927-3	129-00-0									
10	benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
	601-033-00-9	200-280-6	56-55-3									
11	chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
	601-048-00-0	205-923-4	218-01-9									
12	benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
	601-034-00-4	205-911-9	205-99-2									
13	benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
	601-036-00-5	205-916-6	207-08-9									
14	benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
	601-032-00-3	200-028-5	50-32-8									
15	indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		205-893-2	193-39-5									
16	dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
17	benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		205-883-8	191-24-2									

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number							
18		boron { boron tribromide }				0.4 mg/kg	23.173	7.879 mg/kg	0.000788 %	✓	
		005-003-00-0	233-657-9	10294-33-4							
19		benzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2							
20		toluene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3							
21		ethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4							
22		naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3							
23		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4							
24		chromium in Cr(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1 mg/kg	2.27	<2.27 mg/kg	<0.000227 %		<LOD
		024-017-00-8									
25		TPH (C6 to C40) petroleum group				<10 mg/kg		<10 mg/kg	<0.001 %		<LOD
				TPH							
26		mercury {  mercury(II) sulfide }				<0.05 mg/kg	1.16	<0.058 mg/kg	<0.0000058 %		<LOD
			215-696-3	1344-48-5							
27		arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }				1.1 mg/kg	1.895	1.771 mg/kg	0.000177 %	✓	
		033-005-00-1									
28		cadmium { cadmium sulfate }				0.1 mg/kg	1.855	0.158 mg/kg	0.0000158 %	✓	
		048-009-00-9	233-331-6	10124-36-4							
29		copper { copper sulphate }				8 mg/kg	2.512	17.08 mg/kg	0.00171 %	✓	
		029-004-00-0	231-847-6	7758-98-7							
30		molybdenum { molybdenum(VI) oxide }				0.7 mg/kg	1.5	0.893 mg/kg	0.0000893 %	✓	
		042-001-00-9	215-204-7	1313-27-5							
31		nickel { nickel dichromate }				3.9 mg/kg	4.68	15.514 mg/kg	0.00155 %	✓	
		028-047-00-2	239-646-5	15586-38-6							
32		lead {  lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	4.6 mg/kg		3.91 mg/kg	0.000391 %	✓	
		082-001-00-6									
33		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
		034-002-00-8									
34		zinc { zinc chromate }				6.5 mg/kg	2.774	15.327 mg/kg	0.00153 %	✓	
		024-007-00-3	236-878-9	13530-65-9							
35		xylene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
36		chromium in Cr(III) compounds {  chromium(III) oxide (worst case) }				4 mg/kg	1.462	4.969 mg/kg	0.000497 %	✓	
			215-160-9	1308-38-9							
Total:									0.00675 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: BH5/0.60-1.20/2025-10-08

**Non Hazardous Waste**Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:	
BH5/0.60-1.20/2025-10-08	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.60 m		
Moisture content:		
16%		
(wet weight correction)		

Hazard properties

None identified

Determinands

Moisture content: 16% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				0.6 mg/kg	1.884	0.95 mg/kg	0.000095 %	✓	
	006-007-00-5									
2	monohydric phenols				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
		P1186								
3	acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-917-1	208-96-8							
4	acenaphthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-469-6	83-32-9							
5	fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-695-5	86-73-7							
6	phenanthrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-581-5	85-01-8							
7	anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-371-1	120-12-7							
8	fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-912-4	206-44-0							
9	pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-927-3	129-00-0							
10	benzo[a]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
11	chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
12	benzo[b]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
13	benzo[k]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
14	benzo[a]pyrene; benzo[def]chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
15	indeno[123-cd]pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-893-2	193-39-5							
16	dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
17	benzo[ghi]perylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-883-8	191-24-2							

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
18	boron { boron tribromide }				0.6	mg/kg	23.173	11.679	mg/kg	0.00117 %	✓	
	005-003-00-0	233-657-9	10294-33-4									
19	benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
20	toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3									
21	ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4									
22	naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
23	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
24	chromium in Cr(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
	024-017-00-8											
25	TPH (C6 to C40) petroleum group				<10	mg/kg		<10	mg/kg	<0.001 %		<LOD
			TPH									
26	mercury { mercury(II) sulfide }				<0.05	mg/kg	1.16	<0.058	mg/kg	<0.0000058 %		<LOD
		215-696-3	1344-48-5									
27	arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }				0.5	mg/kg	1.895	0.796	mg/kg	0.0000796 %	✓	
	033-005-00-1											
28	cadmium { cadmium sulfate }				<0.1	mg/kg	1.855	<0.185	mg/kg	<0.0000185 %		<LOD
	048-009-00-9	233-331-6	10124-36-4									
29	copper { copper sulphate }				3.4	mg/kg	2.512	7.173	mg/kg	0.000717 %	✓	
	029-004-00-0	231-847-6	7758-98-7									
30	molybdenum { molybdenum(VI) oxide }				<0.4	mg/kg	1.5	<0.6	mg/kg	<0.00006 %		<LOD
	042-001-00-9	215-204-7	1313-27-5									
31	nickel { nickel dichromate }				2.4	mg/kg	4.68	9.435	mg/kg	0.000943 %	✓	
	028-047-00-2	239-646-5	15586-38-6									
32	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	1.6	mg/kg		1.344	mg/kg	0.000134 %	✓	
	082-001-00-6											
33	selenium { selenium compounds with the exception of cadmium selenosulfide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.405	<0.703	mg/kg	<0.0000703 %		<LOD
	034-002-00-8											
34	zinc { zinc chromate }				2.4	mg/kg	2.774	5.593	mg/kg	0.000559 %	✓	
	024-007-00-3	236-878-9	13530-65-9									
35	xylene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
36	chromium in Cr(III) compounds { chromium(III) oxide (worst case) }				1.8	mg/kg	1.462	2.21	mg/kg	0.000221 %	✓	
		215-160-9	1308-38-9									
Total:										0.00392 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
•	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: BH6/0.60-1.20/2025-10-08

**Non Hazardous Waste**Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:	
BH6/0.60-1.20/2025-10-08	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.60 m		
Moisture content:		
16%		
(wet weight correction)		

Hazard properties

None identified

Determinands

Moisture content: 16% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.1 mg/kg	1.884	<0.188	mg/kg	<0.0000188 %		<LOD
	006-007-00-5										
2	monohydric phenols				<0.3 mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
			P1186								
3	acenaphthylene				<0.1 mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		205-917-1	208-96-8								
4	acenaphthene				<0.1 mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		201-469-6	83-32-9								
5	fluorene				<0.1 mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		201-695-5	86-73-7								
6	phenanthrene				<0.1 mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		201-581-5	85-01-8								
7	anthracene				<0.1 mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		204-371-1	120-12-7								
8	fluoranthene				<0.1 mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		205-912-4	206-44-0								
9	pyrene				<0.1 mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		204-927-3	129-00-0								
10	benzo[a]anthracene				<0.1 mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
	601-033-00-9	200-280-6	56-55-3								
11	chrysene				<0.1 mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
	601-048-00-0	205-923-4	218-01-9								
12	benzo[b]fluoranthene				<0.1 mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
	601-034-00-4	205-911-9	205-99-2								
13	benzo[k]fluoranthene				<0.1 mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
	601-036-00-5	205-916-6	207-08-9								
14	benzo[a]pyrene; benzo[def]chrysene				<0.1 mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
	601-032-00-3	200-028-5	50-32-8								
15	indeno[123-cd]pyrene				<0.1 mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		205-893-2	193-39-5								
16	dibenz[a,h]anthracene				<0.1 mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
	601-041-00-2	200-181-8	53-70-3								
17	benzo[ghi]perylene				<0.1 mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		205-883-8	191-24-2								

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
18		boron { boron tribromide }				0.3	mg/kg	23.173	5.84	mg/kg	0.000584 %	✓	
		005-003-00-0	233-657-9	10294-33-4									
19		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
20		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
21		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
22		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
23		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
24		chromium in Cr(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
		024-017-00-8											
25		TPH (C6 to C40) petroleum group				<10	mg/kg		<10	mg/kg	<0.001 %		<LOD
				TPH									
26		mercury {  mercury(II) sulfide }				<0.05	mg/kg	1.16	<0.058	mg/kg	<0.0000058 %		<LOD
			215-696-3	1344-48-5									
27		arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }				0.9	mg/kg	1.895	1.432	mg/kg	0.000143 %	✓	
		033-005-00-1											
28		cadmium { cadmium sulfate }				<0.1	mg/kg	1.855	<0.185	mg/kg	<0.0000185 %		<LOD
		048-009-00-9	233-331-6	10124-36-4									
29		copper { copper sulphate }				6.5	mg/kg	2.512	13.714	mg/kg	0.00137 %	✓	
		029-004-00-0	231-847-6	7758-98-7									
30		molybdenum { molybdenum(VI) oxide }				<0.4	mg/kg	1.5	<0.6	mg/kg	<0.00006 %		<LOD
		042-001-00-9	215-204-7	1313-27-5									
31		nickel { nickel dichromate }				5.8	mg/kg	4.68	22.801	mg/kg	0.00228 %	✓	
		028-047-00-2	239-646-5	15586-38-6									
32		lead {  lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	3.6	mg/kg		3.024	mg/kg	0.000302 %	✓	
		082-001-00-6											
33		selenium { selenium compounds with the exception of cadmium selenosulfide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.405	<0.703	mg/kg	<0.0000703 %		<LOD
		034-002-00-8											
34		zinc { zinc chromate }				4.3	mg/kg	2.774	10.02	mg/kg	0.001 %	✓	
		024-007-00-3	236-878-9	13530-65-9									
35		xylene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
36		chromium in Cr(III) compounds {  chromium(III) oxide (worst case) }				2.3	mg/kg	1.462	2.824	mg/kg	0.000282 %	✓	
			215-160-9	1308-38-9									
Total:												0.00597 %	

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
•	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: BH1/0.35-0.75/2025-10-08

**Non Hazardous Waste**Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:	
BH1/0.35-0.75/2025-10-08	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.35 m		
Moisture content:		
17%		
(wet weight correction)		

Hazard properties

None identified

Determinands

Moisture content: 17% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.1 mg/kg	1.884	<0.188 mg/kg		<0.0000188 %		<LOD
	006-007-00-5										
2	monohydric phenols				<0.3 mg/kg		<0.3 mg/kg		<0.00003 %		<LOD
			P1186								
3	acenaphthylene				<0.1 mg/kg		<0.1 mg/kg		<0.00001 %		<LOD
		205-917-1	208-96-8								
4	acenaphthene				<0.1 mg/kg		<0.1 mg/kg		<0.00001 %		<LOD
		201-469-6	83-32-9								
5	fluorene				<0.1 mg/kg		<0.1 mg/kg		<0.00001 %		<LOD
		201-695-5	86-73-7								
6	phenanthrene				0.21 mg/kg		0.174 mg/kg		0.0000174 %	✓	
		201-581-5	85-01-8								
7	anthracene				<0.1 mg/kg		<0.1 mg/kg		<0.00001 %		<LOD
		204-371-1	120-12-7								
8	fluoranthene				0.31 mg/kg		0.257 mg/kg		0.0000257 %	✓	
		205-912-4	206-44-0								
9	pyrene				0.33 mg/kg		0.274 mg/kg		0.0000274 %	✓	
		204-927-3	129-00-0								
10	benzo[a]anthracene				<0.1 mg/kg		<0.1 mg/kg		<0.00001 %		<LOD
	601-033-00-9	200-280-6	56-55-3								
11	chrysene				<0.1 mg/kg		<0.1 mg/kg		<0.00001 %		<LOD
	601-048-00-0	205-923-4	218-01-9								
12	benzo[b]fluoranthene				0.2 mg/kg		0.166 mg/kg		0.0000166 %	✓	
	601-034-00-4	205-911-9	205-99-2								
13	benzo[k]fluoranthene				0.18 mg/kg		0.149 mg/kg		0.0000149 %	✓	
	601-036-00-5	205-916-6	207-08-9								
14	benzo[a]pyrene; benzo[def]chrysene				0.18 mg/kg		0.149 mg/kg		0.0000149 %	✓	
	601-032-00-3	200-028-5	50-32-8								
15	indeno[123-cd]pyrene				0.22 mg/kg		0.183 mg/kg		0.0000183 %	✓	
		205-893-2	193-39-5								
16	dibenz[a,h]anthracene				0.11 mg/kg		0.0913 mg/kg		0.00000913 %	✓	
	601-041-00-2	200-181-8	53-70-3								
17	benzo[ghi]perylene				0.3 mg/kg		0.249 mg/kg		0.0000249 %	✓	
		205-883-8	191-24-2								

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
18		boron { boron tribromide }				0.7	mg/kg	23.173	13.463	mg/kg	0.00135 %	✓	
		005-003-00-0	233-657-9	10294-33-4									
19		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
20		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
21		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
22		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
23		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
24		chromium in Cr(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
		024-017-00-8											
25		TPH (C6 to C40) petroleum group				<10	mg/kg		<10	mg/kg	<0.001 %		<LOD
				TPH									
26		mercury {  mercury(II) sulfide }				<0.05	mg/kg	1.16	<0.058	mg/kg	<0.0000058 %		<LOD
			215-696-3	1344-48-5									
27		arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }				6.2	mg/kg	1.895	9.749	mg/kg	0.000975 %	✓	
		033-005-00-1											
28		cadmium { cadmium sulfate }				<0.1	mg/kg	1.855	<0.185	mg/kg	<0.0000185 %		<LOD
		048-009-00-9	233-331-6	10124-36-4									
29		copper { copper sulphate }				31	mg/kg	2.512	64.626	mg/kg	0.00646 %	✓	
		029-004-00-0	231-847-6	7758-98-7									
30		molybdenum { molybdenum(VI) oxide }				1.7	mg/kg	1.5	2.117	mg/kg	0.000212 %	✓	
		042-001-00-9	215-204-7	1313-27-5									
31		nickel { nickel dichromate }				36	mg/kg	4.68	139.837	mg/kg	0.014 %	✓	
		028-047-00-2	239-646-5	15586-38-6									
32		lead {  lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	12	mg/kg		9.96	mg/kg	0.000996 %	✓	
		082-001-00-6											
33		selenium { selenium compounds with the exception of cadmium selenosulfide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.405	<0.703	mg/kg	<0.0000703 %		<LOD
		034-002-00-8											
34		zinc { zinc chromate }				49	mg/kg	2.774	112.825	mg/kg	0.0113 %	✓	
		024-007-00-3	236-878-9	13530-65-9									
35		xylene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
36		chromium in Cr(III) compounds {  chromium(III) oxide (worst case) }				34	mg/kg	1.462	41.245	mg/kg	0.00412 %	✓	
			215-160-9	1308-38-9									
Total:												0.0396 %	

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
•	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Appendix A: Classifier defined and non GB MCL determinands

• salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex

GB MCL index number: 006-007-00-5

Description/Comments: Conversion factor based on a worst case compound: sodium cyanide

Additional Hazard Statement(s): EUH032 >= 0.2 %

Reason for additional Hazards Statement(s):

20 Nov 2021 - EUH032 >= 0.2 % hazard statement sourced from: WM3, Table C12.2

• monohydric phenols (CAS Number: P1186)

Description/Comments: Combined hazards statements from harmonised entries in CLP for phenol, cresols and xylenols (604-001-00-2, 604-004-00-9, 604-006-00-X)

Data source: CLP combined data

Data source date: 26 Mar 2019

Hazard Statements: Muta. 2; H341, Acute Tox. 3; H331, Acute Tox. 3; H311, Acute Tox. 3; H301, STOT RE 2; H373, Skin Corr. 1B; H314, Skin Corr. 1B; H314 >= 3 %, Skin Irrit. 2; H315 1 <= conc. < 3 %, Eye Irrit. 2; H319 1 <= conc. < 3 %, Aquatic Chronic 2; H411

• acenaphthylene (EC Number: 205-917-1, CAS Number: 208-96-8)

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 17 Jul 2015

Hazard Statements: Acute Tox. 4; H302, Acute Tox. 1; H330, Acute Tox. 1; H310, Eye Irrit. 2; H319, STOT SE 3; H335, Skin Irrit. 2; H315

• acenaphthene (EC Number: 201-469-6, CAS Number: 83-32-9)

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 17 Jul 2015

Hazard Statements: Eye Irrit. 2; H319, STOT SE 3; H335, Skin Irrit. 2; H315, Aquatic Acute 1; H400, Aquatic Chronic 1; H410, Aquatic Chronic 2; H411

• fluorene (EC Number: 201-695-5, CAS Number: 86-73-7)

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 06 Aug 2015

Hazard Statements: Aquatic Acute 1; H400, Aquatic Chronic 1; H410

• phenanthrene (EC Number: 201-581-5, CAS Number: 85-01-8)

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 06 Aug 2015

Hazard Statements: Acute Tox. 4; H302, Eye Irrit. 2; H319, STOT SE 3; H335, Carc. 2; H351, Skin Sens. 1; H317, Aquatic Acute 1; H400, Aquatic Chronic 1; H410, Skin Irrit. 2; H315

• anthracene (EC Number: 204-371-1, CAS Number: 120-12-7)

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 17 Jul 2015

Hazard Statements: Eye Irrit. 2; H319, STOT SE 3; H335, Skin Irrit. 2; H315, Skin Sens. 1; H317, Aquatic Acute 1; H400, Aquatic Chronic 1; H410

• fluoranthene (EC Number: 205-912-4, CAS Number: 206-44-0)

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 21 Aug 2015

Hazard Statements: Acute Tox. 4; H302, Aquatic Acute 1; H400, Aquatic Chronic 1; H410

• pyrene (EC Number: 204-927-3, CAS Number: 129-00-0)

Description/Comments: Data from C&L Inventory Database; SDS Sigma Aldrich 2014

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 21 Aug 2015

Hazard Statements: Skin Irrit. 2; H315, Eye Irrit. 2; H319, STOT SE 3; H335, Aquatic Acute 1; H400, Aquatic Chronic 1; H410

• indeno[123-cd]pyrene (EC Number: 205-893-2, CAS Number: 193-39-5)

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 06 Aug 2015

Hazard Statements: Carc. 2; H351

• **benzo[ghi]perylene** (EC Number: 205-883-8, CAS Number: 191-24-2)

Description/Comments: Data from C&L Inventory Database; SDS Sigma Aldrich 28/02/2015
Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 23 Jul 2015
Hazard Statements: Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

• **ethylbenzene** (EC Number: 202-849-4, CAS Number: 100-41-4)

GB MCL index number: 601-023-00-4
Description/Comments:
Additional Hazard Statement(s): Carc. 2; H351
Reason for additional Hazards Statement(s):
20 Nov 2021 - Carc. 2; H351 hazard statement sourced from: IARC Group 2B (77) 2000

• **TPH (C6 to C40) petroleum group** (CAS Number: TPH)

Description/Comments: Unknown Oil

Hazard statements taken from WM3 1st Edition 2015
Data source: WM3 1st Edition 2015
Data source date: 25 May 2015
Hazard Statements: Flam. Liq. 3; H226 , Asp. Tox. 1; H304 , STOT RE 2; H373 , Muta. 1B; H340 , Carc. 1B; H350 , Repr. 2; H361d , Aquatic Chronic 2; H411

• **mercury(II) sulfide** (EC Number: 215-696-3, CAS Number: 1344-48-5)

Description/Comments: Data from ECHA's C&L and SDS Sigma Aldrich V6 dated 17/9/2019

Threshold for EUH031 based on calculation method in WM3 Box C12.1
Data source: <https://echa.europa.eu/information-on-chemicals/cl-inventory-database/-/discli/details/8530>
Data source date: 14 May 2020
Hazard Statements: EUH031 >= 1 % , EUH031 , Skin Sens. 1; H317 , STOT RE 2; H373

• **lead compounds with the exception of those specified elsewhere in this Annex (worst case)**

GB MCL index number: 082-001-00-6
Description/Comments: Worst Case: IARC considers lead compounds Group 2A; Probably carcinogenic to humans; Lead REACH Consortium, following MCL protocols, considers lead compounds from smelting industries, flue dust and similar to be Carcinogenic category 1A
Additional Hazard Statement(s): Carc. 1A; H350
Reason for additional Hazards Statement(s):
20 Nov 2021 - Carc. 1A; H350 hazard statement sourced from: IARC Group 2A (Sup 7, 87) 2006; Lead REACH Consortium www.reach-lead.eu/substanceinformation.html (worst case lead compounds). Review date 29/09/2015

• **chromium(III) oxide (worst case)** (EC Number: 215-160-9, CAS Number: 1308-38-9)

Description/Comments: Data from C&L Inventory Database
Data source: <https://echa.europa.eu/information-on-chemicals/cl-inventory-database/-/discli/details/33806>
Data source date: 17 Jul 2015
Hazard Statements: Acute Tox. 4; H332 , Acute Tox. 4; H302 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315 , Resp. Sens. 1; H334 , Skin Sens. 1; H317 , Repr. 1B; H360FD , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

Appendix B: Rationale for selection of metal species

cyanides {salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex}

Worst case species likely to be present.

boron {boron tribromide}

Worst case species likely to be present.

chromium in Cr(VI) compounds {chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex}

Worst case species likely to be present.

mercury {mercury(II) sulfide}

Worst case species likely to be present.

arsenic {arsenic acid and its salts with the exception of those specified elsewhere in this Annex}

Worst case species likely to be present.

cadmium {cadmium sulfate}

Worst case species likely to be present.

copper {copper sulphate}

Worst case species likely to be present.

molybdenum {molybdenum(VI) oxide}

Worst case species likely to be present.

nickel {nickel dichromate}

Worst case species likely to be present.

lead {lead compounds with the exception of those specified elsewhere in this Annex (worst case)}

Worst case species likely to be present.

selenium {selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex}

Worst case species likely to be present.

zinc {zinc chromate}

Worst case species likely to be present.

chromium in Cr(III) compounds {chromium(III) oxide (worst case)}

Worst case species likely to be present.

Appendix C: VersionHazWasteOnline Classification Engine: **WM3 1st Edition v1.2.GB - Oct 2021**

HazWasteOnline Classification Engine Version: 2025.315.6855.12400 (11 Nov 2025)

HazWasteOnline Database: 2025.315.6855.12400 (11 Nov 2025)

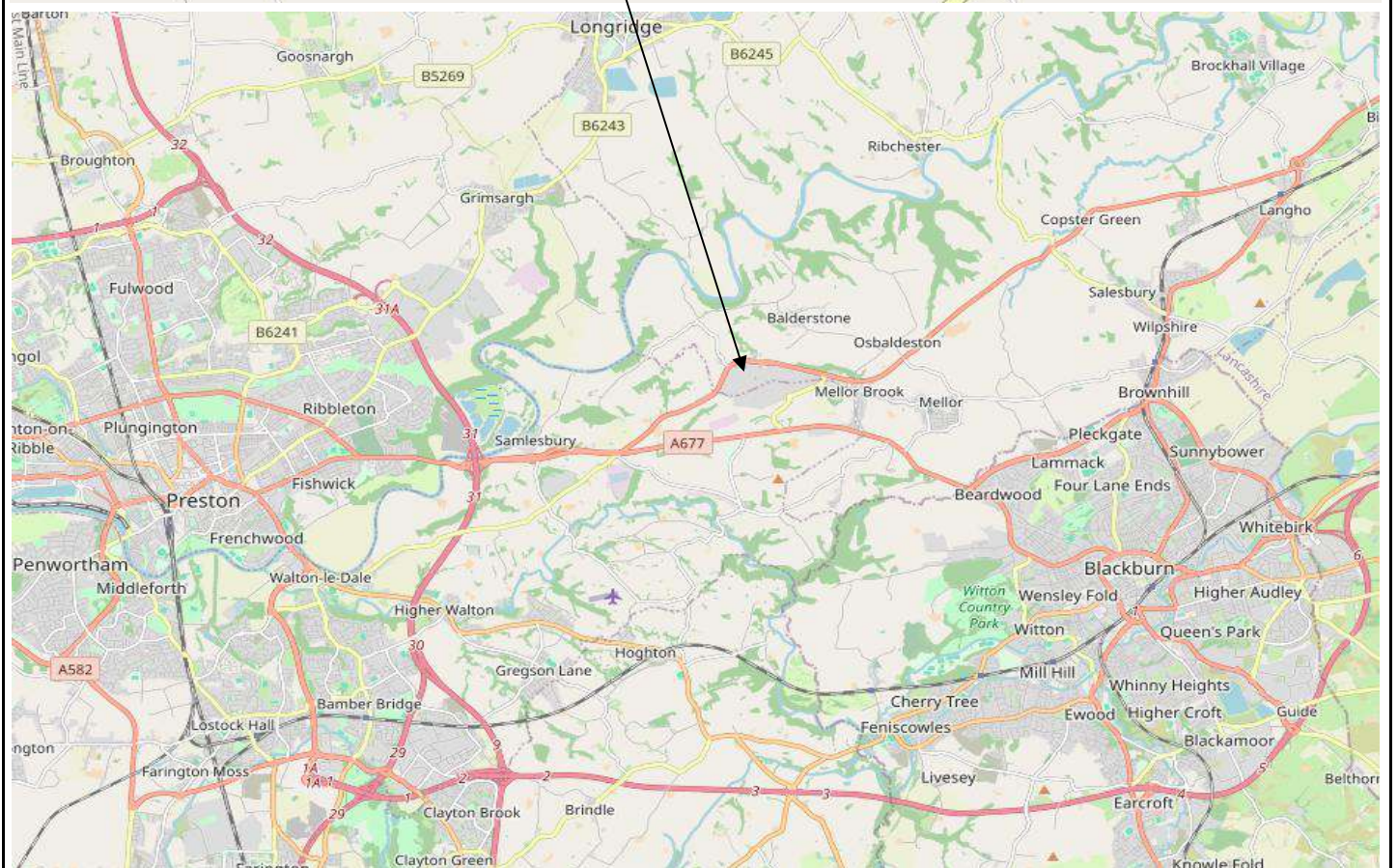
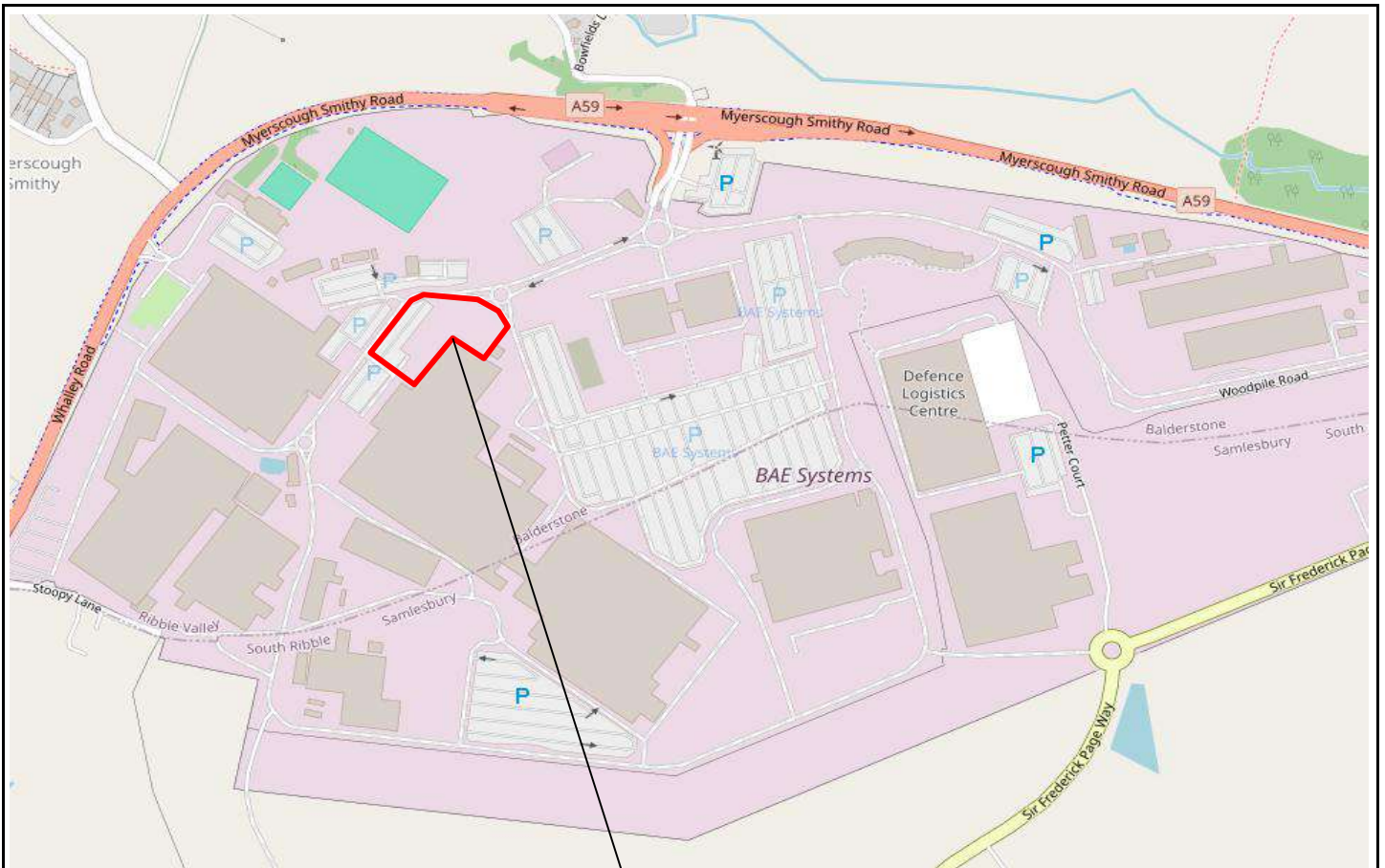
This classification utilises the following guidance and legislation:

WM3 v1.2.GB - Waste Classification - 1st Edition v1.2.GB - Oct 2021**CLP Regulation** - Regulation 1272/2008/EC of 16 December 2008**1st ATP** - Regulation 790/2009/EC of 10 August 2009**2nd ATP** - Regulation 286/2011/EC of 10 March 2011**3rd ATP** - Regulation 618/2012/EU of 10 July 2012**4th ATP** - Regulation 487/2013/EU of 8 May 2013**Correction to 1st ATP** - Regulation 758/2013/EU of 7 August 2013**5th ATP** - Regulation 944/2013/EU of 2 October 2013**6th ATP** - Regulation 605/2014/EU of 5 June 2014**WFD Annex III replacement** - Regulation 1357/2014/EU of 18 December 2014**Revised List of Waste 2014** - Decision 2014/955/EU of 18 December 2014**7th ATP** - Regulation 2015/1221/EU of 24 July 2015**8th ATP** - Regulation (EU) 2016/918 of 19 May 2016**9th ATP** - Regulation (EU) 2016/1179 of 19 July 2016**10th ATP** - Regulation (EU) 2017/776 of 4 May 2017**HP14 amendment** - Regulation (EU) 2017/997 of 8 June 2017**13th ATP** - Regulation (EU) 2018/1480 of 4 October 2018**14th ATP** - Regulation (EU) 2020/217 of 4 October 2019**15th ATP** - Regulation (EU) 2020/1182 of 19 May 2020**The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use)(Amendment etc.) (EU Exit)****Regulations 2020** - UK: 2020 No. 1567 of 16th December 2020**The Waste and Environmental Permitting etc. (Legislative Functions and Amendment etc.) (EU Exit) Regulations 2020** - UK:

2020 No. 1540 of 16th December 2020

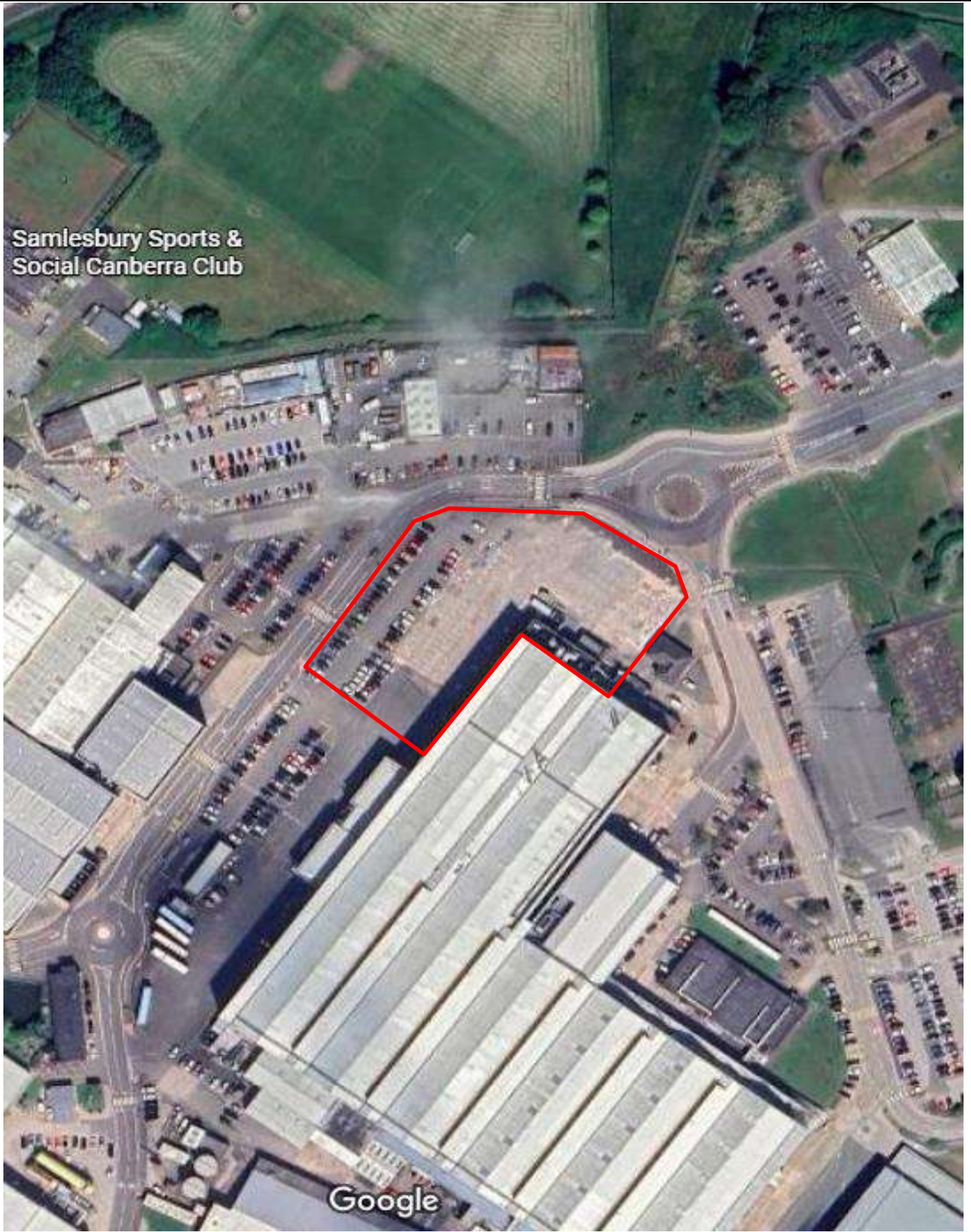
GB MCL List - version 1.1 of 09 June 2021**GB MCL List v2.0** - version 2.0 of 20th October 2023**GB MCL List v3.0** - version 3.0 of 11th January 2024**GB MCL List v4.0** - version 4.0 of 2nd March 2024**GB MCL List v5.0** - version 5.0 of 26th June 2024**GB MCL List v6.0** - version 6.0 of 15th February 2025**GB MCL List v7.0** - version 7.0 of 23rd September 2025

FIGURES



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 SUB SURFACE SITE INVESTIGATION AND SPECIALIST GEOTECHNICAL CONSULTANTS 3 Peel Street, Preston, PR2 2QS. Tel. (01772) 561135 Fax (01772) 204907	General Site Location			
Site MODULAR OFFICES, FORMER 420 BUILDING, BAE SAMLESBURY, MYERSCOUGH SMITHY ROAD, BLACKBURN	Date Drawn 08-Aug-25	Date Checked -	Orientation 	Job No. 8216A
Client WILSON MASON LLP	Drawn By DM	Checked By -	Scale -	Figure No. 1



SUB SURFACE

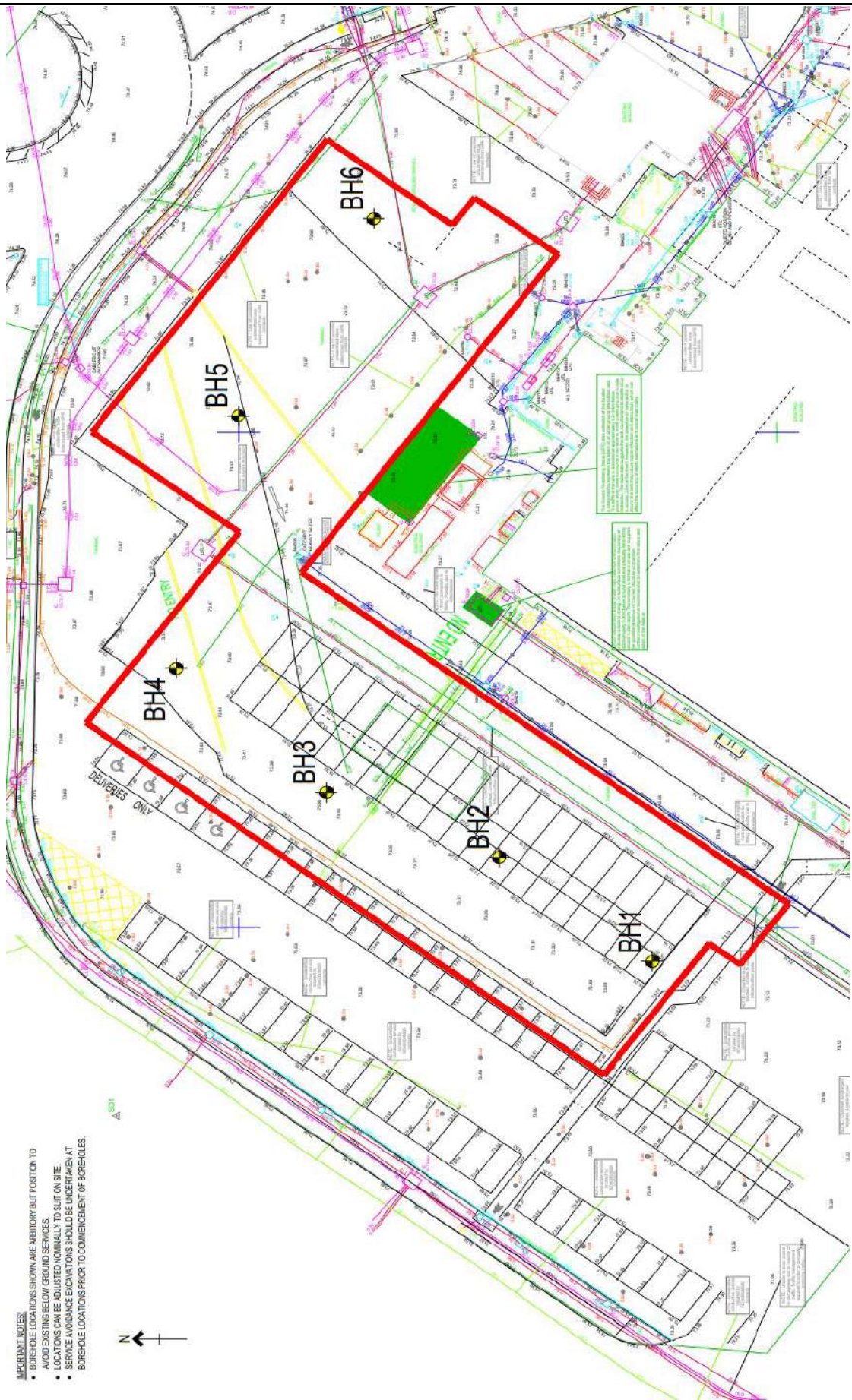
SITE INVESTIGATION AND SPECIALIST GEOTECHNICAL CONSULTANTS
3 Peel Street, Preston, PR2 2QS. Tel. (01772) 561135 Fax (01772) 204907

Site
MODULAR OFFICES, FORMER 420 BUILDING, BAE
SAMLESBURY, MYERSCOUGH SMITHY ROAD, BLACKBURN

Client
WILSON MASON LLP

Site Boundary Plan

Date Drawn 08-Aug-25	Date Checked -	Orientation 	Job No. 8216A
Drawn By DM	Checked By -	Scale -	Figure No. 2



IMPORTANT NOTES:

- BOREHOLE LOCATIONS SHOWN ARE ARBITRARY BUT POSITION TO AVOID EXISTING BELOW GROUND SERVICES.
- LOCATIONS CAN BE ADJUSTED NORMALLY TO SUIT ON SITE.
- SERVICE AVOIDANCE EXCAVATIONS SHOULD BE UNDERTAKEN AT BOREHOLE LOCATIONS PRIOR TO COMMENCEMENT OF BOREHOLES.



SUB SURFACE

SITE INVESTIGATION AND SPECIALIST GEOTECHNICAL CONSULTANTS
3 Peel Street, Preston, PR2 2QS. Tel. (01772) 561135 Fax (01772) 204907

Site
MODULAR OFFICES, FORMER 420 BUILDING, BAE
SAMLESBURY, MYERSCOUGH SMITHY ROAD, BLACKBURN

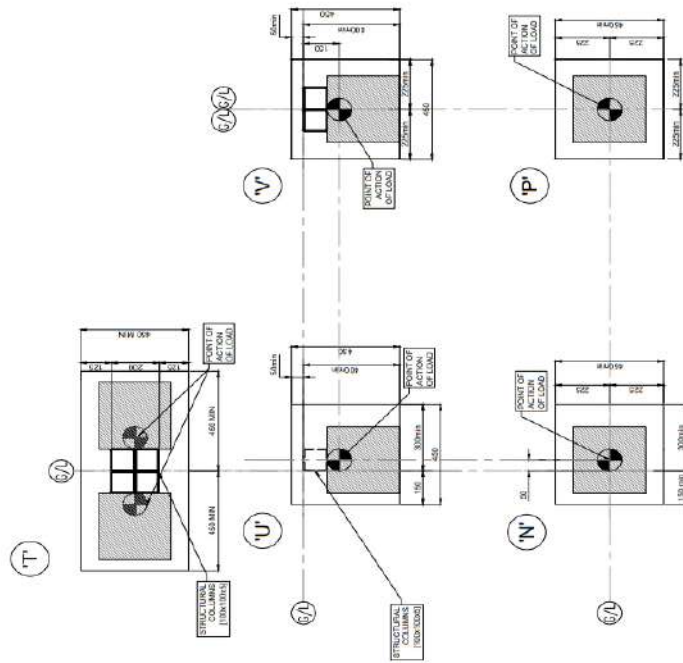
Client
WILSON MASON LLP

Proposed Development Boundary & Locations of Exploratory Holes

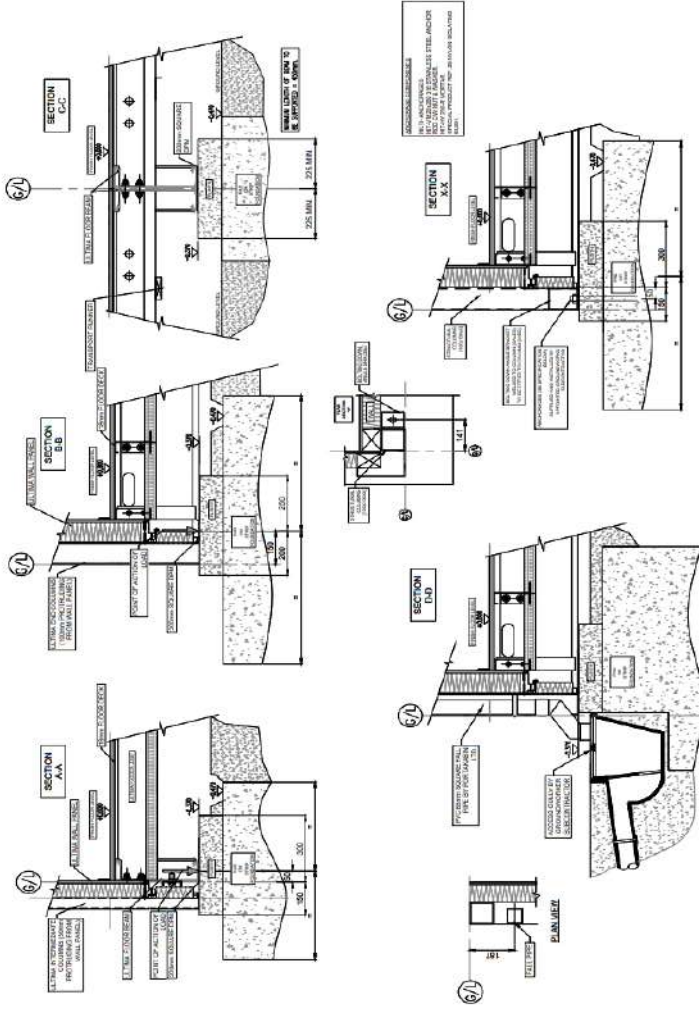
Date Drawn 11-Nov-25	Date Checked -	Orientation 	Job No. 8216A
Drawn By DJ	Checked By -	Scale -	Figure No. 3

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All drawings are to be approved by Portakabin Limited.

Rev	Date	Revised	Description	Checked	Reviewed	Approved
1	08-Aug-25		ISSUED FOR SUBMITTAL			



PLANS SCALE - 1:10



NOTE:



SUB SURFACE

SITE INVESTIGATION AND SPECIALIST GEOTECHNICAL CONSULTANTS
3 Peel Street, Preston, PR2 2QS. Tel. (01772) 561135 Fax (01772) 204907

Proposed Foundation Arrangements

Site	Date Drawn	Date Checked	Orientation	Job No.
MODULAR OFFICES, FORMER 420 BUILDING, BAE SAMLESBURY, MYERSCOUGH SMITHY ROAD, BLACKBURN	08-Aug-25	-	-	8216A
Client	Drawn By	Checked By	Scale	Figure No.
WILSON MASON LLP	DJ	-	As Shown	5

SUB SURFACE

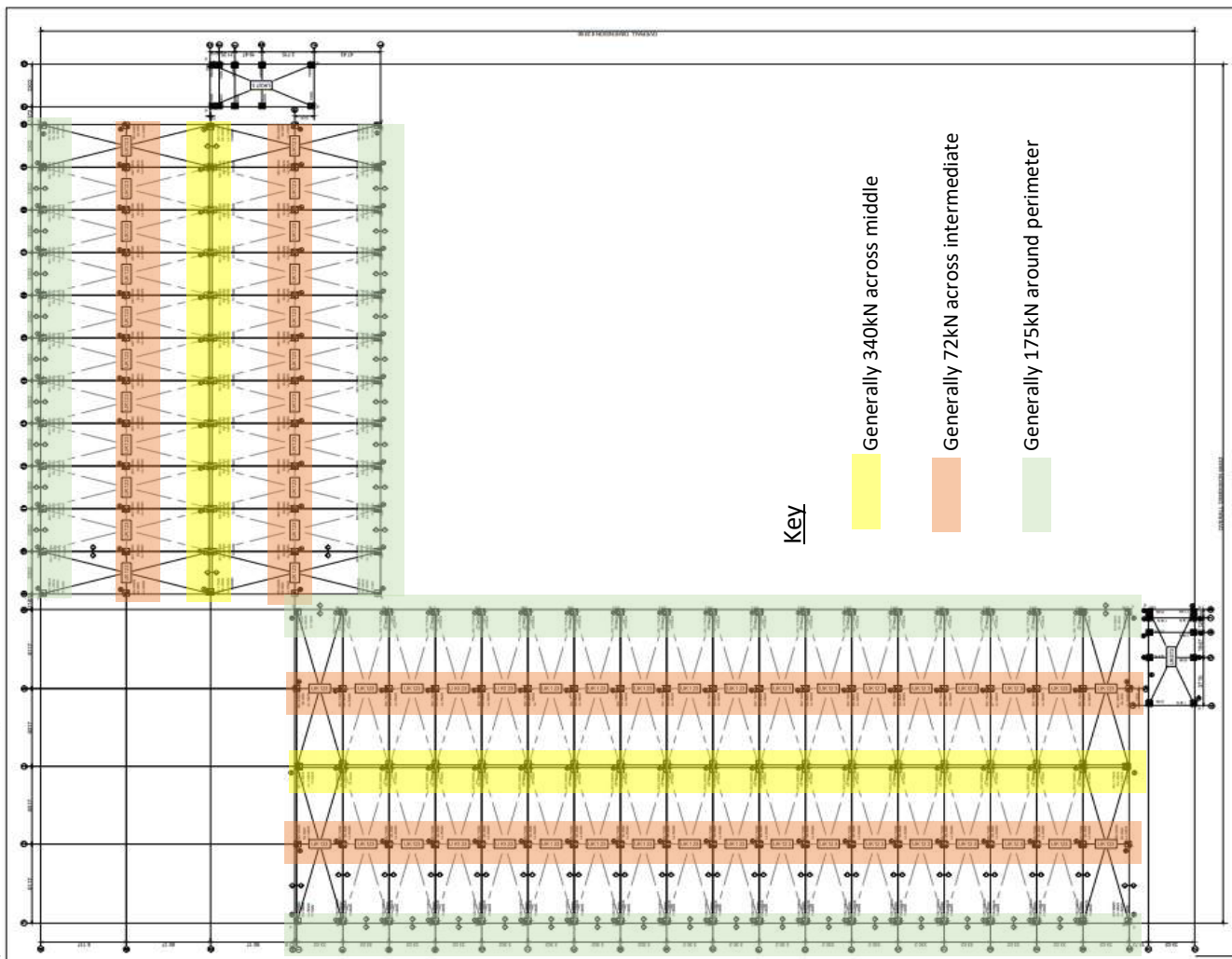
SITE INVESTIGATION AND SPECIALIST GEOTECHNICAL CONSULTANTS
3 Peel Street, Preston, PR2 2QS. Tel. (01772) 561135 Fax (01772) 204907

Site	MODULAR OFFICES, FORMER 420 BUILDING, BAE SAMLESBURY, MYERSCOUGH SMITHY ROAD, BLACKBURN
------	--

Client
WILSON MASON LLP

Proposed Foundation Loadings

Date Drawn 08-Aug-25	Date Checked -	Orientation —	Job No. 8216A
Drawn By DJ	Checked By -	Scale As Shown	Figure No. 6



Key

Generally 340kN across middle

Generally 72kN across intermediate

Generally 175kN around perimeter

NOTES

NOTES:
1. THE INFORMATION CONTAINED ON THIS DRAWING DESCRIBES THE FOUNDATION REQUIREMENTS FOR THE PROPOSED BUILDING TO ASSIST WITH THE DESIGN AND DETAILING OF CONSTRUCTION DRAWINGS. THE GRID LINE REFERENCES SHOWN SHOULD BE INCLUDED ON ALL FOUNDATION CONSTRUCTION DRAWINGS.

2. FOUNDATIONS MAY TAKE THE FORM OF EITHER PADS OR STRIPS, DEPENDING ON SITE CONDITIONS. WHERE STRIP FOUNDATIONS ARE TO BE USED REVISED FOUNDATION DESIGN LOADS CAN BE PROVIDED ON REQUEST. THE DESIGN SHOULD BE ESTABLISHED BY A QUALIFIED ENGINEER.

3. FOUNDATIONS SHOULD BE DESIGNED IN ACCORDANCE WITH BS EN 206-1 & BS 8850. CONCRETE FOUNDATIONS SHALL BE AT LEAST TO COMPRESSIVE STRENGTH CLASS C30/C37

LINEACTORED ECOLINATION DESIGN LOADS ARE SHOWN AT EACH SUPPORT POSITION ARE IN kN & INCLIDE-

THE DEAD WEIGHT OF THE BUILDING. IMPOSED WIND LOAD.
IMPOSED FLOOR LOADS OF 3 kN/m^2 . SNOW LOAD OF 0.75 kN/m^2 .
A BREAKDOWN OF THESE LOADS INTO PERMANENT AND IMPOSED PARTS ARE AVAILABLE ON REQUEST. MAXIMUM VERTICAL
LOADS SHOWN.

5. ANCHORAGES TO FOUNDATIONS
THE ANCHOR POSITIONS ARE MARKED ON THE FOUNDATION LAYOUT PLAN THEY ARE MARKED WITH THE SYMBOL "X"

3. CONSTRUCTION TOLERANCES:
TOPS OF FOUNDATIONS MUST BE SMOOTH, FLAT & LEVEL. ALL FOUNDATIONS MUST BE LEVEL TO ± 0.5 mm. THE POSITION OF FOUNDATIONS MUST BE WITHIN ± 5 mm OF STATED DIMENSIONS. CHECKS SHOULD BE MADE FOR SQUARENESS. THE OVERALL DIAGONAL DIMENSIONS SHALL BE WITHIN ± 0.5 OR ± 10 mm OF THE CALCULATED DIMENSION.

ALL GRID LINES SHALL BE CLEARLY MARKED WITH INDELEIBLE MARKING ON THE COMPLETED FOUNDATIONS TO ASSIST WITH CHECKING LEVELS & POSITIONING THE BUILDING.

8. LEVELS AT THE POINT OF LOAD FOR EACH GRID REFERENCE TO BE TAKEN & RECORDED ON THE FOUNDATION COMPLETION FORM. THE FOUNDATION COMPLETION FORM SHALL TO BE COMPLETED & RETURNED TO PORTAKABIN LTD. BY THE AGREED DATE. DEADLY 7 DAYS MINIMUM PRIOR TO THE ERECTION OF THE BUILDING.

ALL DIMENSIONS ARE FROM GRID LINES.

0. ASSOCIATED GROUNDWORKS.*
THE FOLLOWING WORKS SHOULD BE COMPLETED AFTER THE ERECTION OF THE BUILDING: BOLTING DOWN (IF REQUIRED),
DRAINAGE & SERVICE CONNECTIONS, PERIMETER WORKS, ETC.

1. THIS IS A GENERIC LOADING DRAWING THAT DOES NOT INCLUDE ANY SITE SPECIFIC INFORMATION THEREFORE IT IS THE RESPONSIBILITY OF THE SITE TEAM, GROUNDWORKER AND/OR GROUNDWORKS DESIGNER TO ENSURE THAT THE HEALTH, SAFETY, ENVIRONMENTAL & BUILDING REGULATION FOR THE PARTICULAR SITE ARE MET.

2. NOTE THAT THE FLOOR OF THE MODULAR BUILDING IS NOT PERFECTLY AIRTIGHT. THEREFORE IF THERE IS A BUILDING REGULATIONS REQUIREMENT TO DESIGN FOR THE PREVENTION OF GROUND GASES, INCLUDING RADON, FROM ENTERING THE BUILDING THEN THIS SHALL BE DEALT WITH IN THE GROUND BY OTHERS.

3. THE DETAILS SHOWN ASSUME THE BUILDING IS NOT RECESSED INTO THE GROUND FOR ACCESS PURPOSES AND A PART COMPLIANT ACCESS RAMP/STEPS WILL BE SUPPLIED BY OTHERS (CAN BE SUPPLIED BY PORTAKABIN)

4 THE WORKS SHALL BE DESIGNED TO PREVENT WATER PONDING UNDER THE BUILDING. THIS MAY REQUIRE A BELOW-BUILDING DRAINAGE SYSTEM. CAREFUL ATTENTION SHALL BE GIVEN TO ENTRANCE/EXITS TO DETAIL THE EXTERNAL SURFACES TO AVOID WATER RUNNING BACK TO THE BUILDING PERIMETER.

5. RWP=RAINWATER FALL PIPE (POSITIONS TO BE CONFIRMED BY HIRE TEAM)

16. THE SECTION DETAILS ARE TYPICAL DETAILS AND REQUIRE INTERPRETING WITH THE PROPOSED LEVELS FOR GROUND AND BUILDING



POINT OF ACTION OF LOAD

SEE SHEET 2 FOR TYPICAL
SECTIONS AND PLINTH DETAILS

'X'
12 NR BOLTING DOWN
POSITIONS REQUIRED

**SURFACE WATER DRAINAGE 60NR RAIN
WATER PIPE OUTLETS (ONE RAINWATER
PIPE PER UK MODULE)**

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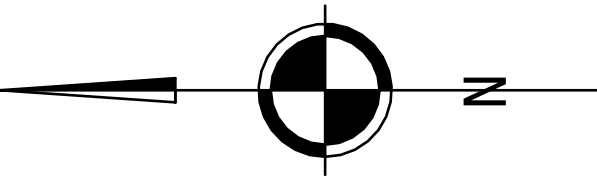
Do not scale off this drawing.
All discrepancies to be reported to Portland Cement.

Item	Costs Approved	Description	Classified	Reviewed	Approved
A	\$1,118.29	costs Reimburse	NO	NO	M.A.

[illegible]

Appendix E

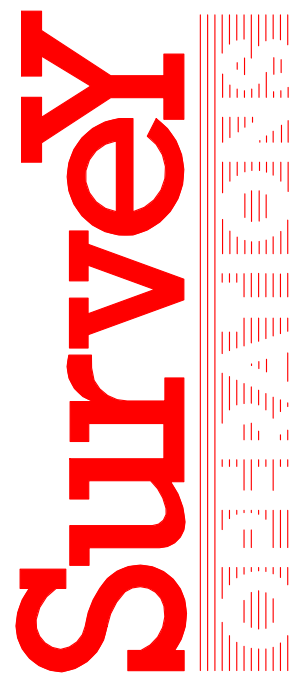
Underground Surveys Drainage CCTV Survey



Notes:
Orientation to existing site grid.
All levels relate to existing site datum.
Survey Control Markers established for
Mapping purposes only and should not be
used for Construction without the written
approval of Survey Operations Ltd.

SURVEY STATIONS	
BM	24.00
CP	24.01
CP	24.02
CP	24.03
CP	24.04
CP	24.05
CP	24.06
CP	24.07
CP	24.08
CP	24.09
CP	24.10
CP	24.11
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CP	24.98
CP	24.99
CP	25.00

STANDARD REFERENCE & ABBREVIATIONS	
BM	Benchmark
CP	Control Point
DM	Datum Marker
EM	Existing Marker
FM	Fixed Marker
GM	Ground Marker
HM	Height Marker
IM	Intermediate Marker
LM	Level Marker
MM	Measurement Marker
PM	Point Marker
SM	Survey Marker
TM	Target Marker
UM	Unknown Marker
VM	Vertical Marker
WM	Water Marker
XM	External Marker
YM	Yield Marker
ZM	Zone Marker
AM	Area Marker
BM	Benchmark
CP	Control Point
DM	Datum Marker
EM	Existing Marker
FM	Fixed Marker
GM	Ground Marker
HM	Height Marker
IM	Intermediate Marker
LM	Level Marker
MM	Measurement Marker
PM	Point Marker
SM	Survey Marker
TM	Target Marker
UM	Unknown Marker
VM	Vertical Marker
WM	Water Marker
XM	External Marker
YM	Yield Marker
ZM	Zone Marker
AM	Area Marker
BM	Benchmark
CP	Control Point
DM	Datum Marker
EM	Existing Marker
FM	Fixed Marker
GM	Ground Marker
HM	Height Marker
IM	Intermediate Marker
LM	Level Marker
MM	Measurement Marker
PM	Point Marker
SM	Survey Marker
TM	Target Marker
UM	Unknown Marker
VM	Vertical Marker
WM	Water Marker
XM	External Marker
YM	Yield Marker
ZM	Zone Marker
AM	Area Marker



Smith Street, Salford, Greater Manchester, M6 6PU
Tel: 01695 725662 Fax: 01695 51816
Email: info@sops.co.uk - www.sops.co.uk

Client
Wilson Mason and Partners

Drawing Title
Topographical Survey of Land at:
BAE Salfordbury Modular Office
Salfordbury

Scale(s)	1:200	Surveyor	MP
Date	Jul 25	Drawn	OKS/JG
Job Number	25E308	Checked	SO/JP

Sheet Size & Dwg Number & Revision
A0 25E308/001



Project

Project Name: 15580 Survey Ops BAE SYSTEMS
Project Description: CCTV Drainage Inspection Report
Project Number: 15580
Project Date: 13/08/2025
Inspection Standard: MSCC5 Sewers & Drainage GB (SRM5 Scoring)

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15580 Survey Ops BAE SYSTEMS	15580	13/08/2025

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Project Information

Project Name	Project Number	Project Date
15580 Survey Ops BAE SYSTEMS	15580	13/08/2025

Client

Company: Survey Operations Ltd
Contact: Aaron Jenkins
Street: Smith Street
Town or City: Skelmersdale
Post Code: WN8 8LN

Site

Company: Site Address
Department: BAE Systems
Town or City: Samlesbury

Contractor

Company: Underground Surveys (UK) Ltd
Contact: Kelly Richardson
Department: Director
Street: Unit CG17 & 18 Warrington Business Park
Town or City: Long Lane
County: Warrington
Post Code: WA2 8TX
Phone: 01925 444 664
Mobile: 07789 243 238
Email: info@undergroundsurveys.co.uk



Scoring Summary

Project Name
15580 Survey Ops BAE SYSTEMS

Project Number
15580

Project Date
13/08/2025

Structural Defects

- Grade 3: Best practice suggests consideration should be given to repairs in the medium term.
- Grade 4: Best practice suggests consideration should be given to repairs to avoid a potential collapse.
- Grade 5: Best practice suggests that this pipe is at risk of collapse at any time. Urgent consideration should be given to repairs to avoid total failure.

Section	PLR	Grade	Description
11	MH07X	3	Multiple defects
13	MH08X	4	Multiple defects

Service / Operational Condition

- Grade 3: Best practice suggests consideration should be given to maintenance activities in the medium term.
- Grade 4: Best practice suggests consideration should be given to maintenance activity to avoid potential blockages.
- Grade 5: Best practice suggests that this pipe is at a high risk of backing up or causing flooding.

Section	PLR	Grade	Description
1	MH01X	3	Settled deposits, other, 5% cross-sectional area loss
2	MH01AX	4	Settled deposits, other, 20% cross-sectional area loss
4	MH03X	3	Multiple defects
5	MH02X	3	Multiple defects
6	MH04X	3	Multiple defects
7	MH06X	3	Settled deposits, fine, 60% cross-sectional area loss, finish
8	MH04AX	3	Multiple defects
9	MH04BX	4	Joint displaced, large
10	MH09X	3	Settled deposits, fine, 10% cross-sectional area loss
11	MH07X	4	Multiple defects
12	MH08AX	4	Settled deposits, coarse, 30% cross-sectional area loss
13	MH08X	3	Multiple defects

Abandoned Surveys

Section	PLR	Description
7	MH06X	Survey abandoned
9	MH04BX	Survey abandoned
11	MH07X	Survey abandoned
11	MH07X	Survey abandoned
12	MH08AX	Survey abandoned
13	MH08X	Survey abandoned



Scoring Summary

Project Name	Project Number	Project Date
15580 Survey Ops BAE SYSTEMS	15580	13/08/2025

Information

These scoring summaries are based on the SRM grading from the WRc.

Section Profile

Project Name
 15580 Survey Ops BAE SYSTEMS

Project Number
 15580

Project Date
 13/08/2025

Circular, 100 mm

Item No.	Upstream Node	Downstream Node	Date	Road	Pipe Material	Total Length	Inspected Length
3	MH02A	MH02	13/08/2025	MYERSCOUGH SMITHY RD	Polyvinyl chloride	3.41 m	3.41 m

Total: 1 Inspection x Circular 100 mm, 0 mm = 3.41 m Total Length and 3.41 m Inspected Length

Circular, 150 mm

Item No.	Upstream Node	Downstream Node	Date	Road	Pipe Material	Total Length	Inspected Length
1	MH01	MH02	13/08/2025	MYERSCOUGH SMITHY RD	Polyvinyl chloride	2.99 m	2.99 m
2	MH01A	MH01	13/08/2025	MYERSCOUGH SMITHY RD	Polyvinyl chloride	1.04 m	1.04 m
4	MH03	MH02	13/08/2025	MYERSCOUGH SMITHY RD	Vitrified clay	13.00 m	13.00 m
5	MH02	MH02J	13/08/2025	MYERSCOUGH SMITHY RD	Vitrified clay	8.07 m	8.07 m
6	MH04	MH05	13/08/2025	MYERSCOUGH SMITHY RD	Vitrified clay	14.17 m	14.17 m
8	MH04A	MH04	13/08/2025	MYERSCOUGH SMITHY RD	Vitrified clay	15.86 m	15.86 m
10	MH09	MH08	14/08/2025	MYERSCOUGH SMITHY RD	Polyvinyl chloride	2.48 m	2.48 m

Total: 7 Inspections x Circular 150 mm, 0 mm = 57.61 m Total Length and 57.61 m Inspected Length

Total: 8 Inspections = 61.02 m Total Length and 61.02 m Inspected Length

Section Summary

Project Name 15580 Survey Ops BAE SYSTEMS	Project Number 15580	Project Date 13/08/2025
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Number of sections	13
Total length of sections	220.02 m
Total length of inspected sections	158.72 m
Total length of not inspected sections	61.30 m
Number of abandoned inspections	6
Number of section inspection photos	86
Number of section inspection videos	14
Number of section inspection scans	0
Number of section inclination measurements	0

PLR:	MH01X	Upstream Node:	MH01
Inspection Direction:	Downstream	Downstream Node:	MH02
Inspected Length:	2.99 m	Dia/Height:	150 mm
Total Length:	2.99 m	Pipe Material:	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	IC	Start node, inspection chamber, reference: MH01
2	0.00	WL	Water level, 5% of the vertical dimension
3	0.55	DEX	Settled deposits, other, 5% cross-sectional area loss
4	0.55	LL	Line deviates left
5	2.99	MHF	Finish node, manhole, reference: MH02

PLR:	MH01AX	Upstream Node:	MH01A
Inspection Direction:	Upstream	Downstream Node:	MH01
Inspected Length:	1.04 m	Dia/Height:	150 mm
Total Length:	1.04 m	Pipe Material:	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	IC	Start node, inspection chamber, reference: MH01
2	0.00	WL	Water level, 0% of the vertical dimension
3	1.02	DEX	Settled deposits, other, 20% cross-sectional area loss
4	1.02	LU	Line deviates up
5	1.02	DES	Settled deposits, fine, 10% cross-sectional area loss
6	1.04	GYF	Finish node, gully, reference: MH01A

PLR:	MH02AX	Upstream Node:	MH02A
Inspection Direction:	Upstream	Downstream Node:	MH02
Inspected Length:	3.41 m	Dia/Height:	100 mm
Total Length:	3.41 m	Pipe Material:	Polyvinyl chloride

Section Summary

Project Name 15580 Survey Ops BAE SYSTEMS	Project Number 15580	Project Date 13/08/2025
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No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH02
2	0.00	WL	Water level, 5% of the vertical dimension
3	3.41	GYF	Finish node, gully, reference: MH02A

PLR:	MH03X	Upstream Node:	MH03
Inspection Direction:	Upstream	Downstream Node:	MH02
Inspected Length:	13.00 m	Dia/Height:	150 mm
Total Length:	13.00 m	Pipe Material:	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH02
2	0.00	WL	Water level, 5% of the vertical dimension
3	0.62	DES	Settled deposits, fine, 10% cross-sectional area loss, start
4	0.62	DER	Settled deposits, coarse, 5% cross-sectional area loss, start
5	1.26	WL	Water level, 10% of the vertical dimension
6	11.28	DES	Settled deposits, fine, 10% cross-sectional area loss, finish
7	11.28	DER	Settled deposits, coarse, 5% cross-sectional area loss, finish
8	13.00	MHF	Finish node, manhole, reference: MH03

PLR:	MH02X	Upstream Node:	MH02
Inspection Direction:	Downstream	Downstream Node:	MH02J
Inspected Length:	8.07 m	Dia/Height:	150 mm
Total Length:	8.07 m	Pipe Material:	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH02
2	0.00	WL	Water level, 5% of the vertical dimension
3	0.60	DES	Settled deposits, fine, 5% cross-sectional area loss, start
4	0.60	LR	Line deviates right
5	1.60	DER	Settled deposits, coarse, 10% cross-sectional area loss
6	5.49	WL	Water level, 20% of the vertical dimension
7	8.05	DES	Settled deposits, fine, 5% cross-sectional area loss, finish
8	8.07	BRF	Finish node, major connection without manhole, reference: MH02J

PLR:	MH04X	Upstream Node:	MH04
Inspection Direction:	Downstream	Downstream Node:	MH05
Inspected Length:	14.17 m	Dia/Height:	150 mm
Total Length:	14.17 m	Pipe Material:	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH04
2	0.00	WL	Water level, 10% of the vertical dimension
3	1.02	DES	Settled deposits, fine, 10% cross-sectional area loss
4	5.11	DER	Settled deposits, coarse, 5% cross-sectional area loss
5	6.69	CCJ	Crack, circumferential at joint from 9 o'clock to 10 o'clock
6	7.63	CXI	Connection defective, connecting pipe is intruding at 12 o'clock, 100mm dia, intrusion: 5%
7	10.88	DEX	Settled deposits, other, 5% cross-sectional area loss
8	13.31	DES	Settled deposits, fine, 5% cross-sectional area loss

Section Summary

Project Name 15580 Survey Ops BAE SYSTEMS	Project Number 15580	Project Date 13/08/2025
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No.	m+	Code	Observation
9	14.17	MHF	Finish node, manhole, reference: MH05

PLR:	MH06X	Upstream Node:	MH06
Inspection Direction:	Downstream	Downstream Node:	MH06J
Inspected Length:	7.91 m	Dia/Height:	100 mm
Total Length:	15.00 m	Pipe Material:	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	IC	Start node, inspection chamber, reference: MH06
2	0.00	WL	Water level, 0% of the vertical dimension
3	0.44	DES	Settled deposits, fine, 5% cross-sectional area loss, start
4	7.36	DES	Settled deposits, fine, 20% cross-sectional area loss, change
5	7.91	DES	Settled deposits, fine, 60% cross-sectional area loss, finish
6	7.91	SA	Survey abandoned

PLR:	MH04AX	Upstream Node:	MH04A
Inspection Direction:	Upstream	Downstream Node:	MH04
Inspected Length:	15.86 m	Dia/Height:	150 mm
Total Length:	15.86 m	Pipe Material:	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH04
2	0.00	WL	Water level, 10% of the vertical dimension
3	0.60	DES	Settled deposits, fine, 10% cross-sectional area loss, start
4	5.74	DER	Settled deposits, coarse, 5% cross-sectional area loss
5	5.74	DES	Settled deposits, fine, 5% cross-sectional area loss, change
6	6.72	CXI	Connection defective, connecting pipe is intruding at 12 o'clock, 100mm dia, intrusion: 5%
7	7.22	DER	Settled deposits, coarse, 5% cross-sectional area loss
8	8.87	CN	Connection other than junction at 12 o'clock, 100mm dia
9	10.54	JN	Junction at 3 o'clock, 150mm dia, from MH02J
10	11.94	MCPVC	Pipe material changes to polyvinyl chloride at this point
11	12.00	DES	Settled deposits, fine, 5% cross-sectional area loss, finish
12	14.81	LR	Line deviates right
13	15.86	GYF	Finish node, gully, reference: MH04A

PLR:	MH04BX	Upstream Node:	MH04B
Inspection Direction:	Upstream	Downstream Node:	MH04
Inspected Length:	1.58 m	Dia/Height:	150 mm
Total Length:	4.00 m	Pipe Material:	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH04
2	0.00	WL	Water level, 5% of the vertical dimension
3	0.60	JDL	Joint displaced, large
4	1.58	SA	Survey abandoned

Section Summary

Project Name 15580 Survey Ops BAE SYSTEMS	Project Number 15580	Project Date 13/08/2025
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PLR:	MH09X	Upstream Node:	MH09
Inspection Direction:	Downstream	Downstream Node:	MH08
Inspected Length:	2.48 m	Dia/Height:	150 mm
Total Length:	2.48 m	Pipe Material:	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	IC	Start node, inspection chamber, reference: MH09
2	0.00	WL	Water level, 5% of the vertical dimension
3	0.64	DES	Settled deposits, fine, 10% cross-sectional area loss
4	1.91	LD	Line deviates down
5	2.48	MHF	Finish node, manhole, reference: MH08

PLR:	MH07X	Upstream Node:	MH07
Inspection Direction:	Downstream	Downstream Node:	MH08
Inspected Length:	9.57 m	Dia/Height:	225 mm
Total Length:	30.00 m	Pipe Material:	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH07
2	0.00	WL	Water level, 5% of the vertical dimension
3	0.70	DES	Settled deposits, fine, 20% cross-sectional area loss, start
4	9.57	DES	Settled deposits, fine, 20% cross-sectional area loss, finish
5	9.57	SA	Survey abandoned

PLR:	MH07X	Upstream Node:	MH07
Inspection Direction:	Upstream	Downstream Node:	MH08
Inspected Length:	1.44 m	Dia/Height:	225 mm
Total Length:	30.00 m	Pipe Material:	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH08
2	0.00	WL	Water level, 5% of the vertical dimension
3	0.70	FC	Fracture, circumferential from 1 o'clock to 4 o'clock
4	0.70	FLJ	Fracture, longitudinal at joint at 2 o'clock
5	0.94	JN	Junction at 2 o'clock, 225mm dia
6	1.43	DER	Settled deposits, coarse, 50% cross-sectional area loss
7	1.44	SA	Survey abandoned

PLR:	MH08AX	Upstream Node:	MH08A
Inspection Direction:	Upstream	Downstream Node:	MH08
Inspected Length:	40.45 m	Dia/Height:	225 mm
Total Length:	60.00 m	Pipe Material:	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH08
2	0.00	WL	Water level, 5% of the vertical dimension
3	4.29	LL	Line deviates left
4	6.25	LL	Line deviates left
5	6.28	CLJ	Crack, longitudinal at joint at 3 o'clock
6	8.03	LR	Line deviates right

Section Summary

Project Name 15580 Survey Ops BAE SYSTEMS	Project Number 15580	Project Date 13/08/2025
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No.	m+	Code	Observation
7	11.17	DER	Settled deposits, coarse, 5% cross-sectional area loss
8	23.79	DER	Settled deposits, coarse, 5% cross-sectional area loss
9	26.78	DEE	Attached deposits, encrustation from 9 o'clock to 11 o'clock, 5% cross-sectional area loss
10	28.88	DER	Settled deposits, coarse, 5% cross-sectional area loss
11	31.10	JN	Junction at 9 o'clock, 225mm dia
12	39.06	CLJ	Crack, longitudinal at joint at 3 o'clock
13	39.43	DER	Settled deposits, coarse, 5% cross-sectional area loss
14	40.22	DER	Settled deposits, coarse, 30% cross-sectional area loss
15	40.45	SA	Survey abandoned

PLR:	MH08X	Upstream Node:	MH08
Inspection Direction:	Downstream	Downstream Node:	MH10
Inspected Length:	36.75 m	Dia/Height:	225 mm
Total Length:	50.00 m	Pipe Material:	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH08
2	0.00	WL	Water level, 5% of the vertical dimension
3	3.05	DER	Settled deposits, coarse, 5% cross-sectional area loss
4	3.48	JN	Junction at 9 o'clock, 225mm dia
5	4.42	JN	Junction at 1 o'clock, 150mm dia
6	4.44	DES	Settled deposits, fine, 5% cross-sectional area loss, start
7	6.13	DEX	Settled deposits, other, 10% cross-sectional area loss
8	7.49	DER	Settled deposits, coarse, 10% cross-sectional area loss
9	11.08	CN	Connection other than junction at 9 o'clock, 100mm dia
10	14.43	DEE	Attached deposits, encrustation from 3 o'clock to 5 o'clock, 5% cross-sectional area loss
11	15.33	FLJ	Fracture, longitudinal at joint at 6 o'clock
12	15.33	DER	Settled deposits, coarse, 5% cross-sectional area loss
13	16.74	DER	Settled deposits, coarse, 5% cross-sectional area loss
14	20.05	JN	Junction at 2 o'clock, 100mm dia
15	32.31	DEE	Attached deposits, encrustation from 4 o'clock to 8 o'clock, 5% cross-sectional area loss
16	33.71	DER	Settled deposits, coarse, 5% cross-sectional area loss
17	34.43	CXI	Connection defective, connecting pipe is intruding at 10 o'clock, 100mm dia, intrusion: 5%
18	35.23	REM	General remark
19	35.91	JN	Junction at 2 o'clock, 100mm dia
20	36.62	B	Broken pipe from 12 o'clock to 12 o'clock
21	36.62	D	Deformed sewer or drain, 10%
22	36.62	DES	Settled deposits, fine, 5% cross-sectional area loss, finish
23	36.75	SA	Survey abandoned



Project Summary

Project Name
15580 Survey Ops BAE SYSTEMS

Project Number
15580

Project Date
13/08/2025

Pipe Summary

No.	Type	PLR	Upstream Node	Downstream Node	Road	Town	Use	Mat.	Profile	Length
1	SEC	MH01X	MH01	MH02	Myerscough Smithy Rd	Blackburn	S	PVC	Circular 150mm	2.99 m
2	SEC	MH01AX	MH01A	MH01	Myerscough Smithy Rd	Blackburn	S	PVC	Circular 150mm	1.04 m
3	SEC	MH02AX	MH02A	MH02	Myerscough Smithy Rd	Blackburn	S	PVC	Circular 100mm	3.41 m
4	SEC	MH03X	MH03	MH02	Myerscough Smithy Rd	Blackburn	S	VC	Circular 150mm	13.00 m
5	SEC	MH02X	MH02	MH02J	Myerscough Smithy Rd	Blackburn	S	VC	Circular 150mm	8.07 m
6	SEC	MH04X	MH04	MH05	Myerscough Smithy Rd	Blackburn	S	VC	Circular 150mm	14.17 m
7	SEC	MH06X	MH06	MH06J	Myerscough Smithy Rd	Blackburn	S	PVC	Circular 100mm	15.00 m
8	SEC	MH04AX	MH04A	MH04	Myerscough Smithy Rd	Blackburn	S	VC	Circular 150mm	15.86 m
9	SEC	MH04BX	MH04B	MH04	Myerscough Smithy Rd	Blackburn	S	VC	Circular 150mm	4.00 m
10	SEC	MH09X	MH09	MH08	Myerscough Smithy Rd	Blackburn	S	PVC	Circular 150mm	2.48 m
11	SEC	MH07X	MH07	MH08	Myerscough Smithy Rd	Blackburn	S	VC	Circular 225mm	30.00 m
12	SEC	MH08AX	MH08A	MH08	Myerscough Smithy Rd	Blackburn	S	VC	Circular 225mm	60.00 m
13	SEC	MH08X	MH08	MH10	Myerscough Smithy Rd	Blackburn	S	VC	Circular 225mm	50.00 m
Total:										220.02 m

Pipe Levels

No.	PLR	Upstream Node	Upstream C.L.	Upstream I.L.	Upstream I.D.	Downstream Node	Downstream C.L.	Downstream I.L.	Downstream I.D.
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Project Summary

Project Name 15580 Survey Ops BAE SYSTEMS	Project Number 15580	Project Date 13/08/2025
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No.	PLR	Upstream Node	Upstream C.L.	Upstream I.L.	Upstream I.D.	Downstream Node	Downstream C.L.	Downstream I.L.	Downstream I.D.
1	MH01X	MH01			0.400 m	MH02			0.990 m
2	MH01AX	MH01A			0.000 m	MH01			0.400 m
3	MH02AX	MH02A			0.000 m	MH02			0.990 m
4	MH03X	MH03			0.000 m	MH02			0.990 m
5	MH02X	MH02			0.990 m	MH02J			0.000 m
6	MH04X	MH04			1.000 m	MH05			1.019 m
7	MH06X	MH06			0.300 m	MH06J			0.000 m
8	MH04AX	MH04A			0.000 m	MH04			1.000 m
9	MH04BX	MH04B			0.000 m	MH04			1.000 m
10	MH09X	MH09			0.700 m	MH08			1.140 m
11	MH07X	MH07			1.230 m	MH08			1.140 m
12	MH08AX	MH08A			0.000 m	MH08			1.140 m
13	MH08X	MH08			1.140 m	MH10			0.000 m

Pipe Summary by Profile

Profile	Total Length	No. Pipes
Circular 100mm	3.41 m	
Circular 100mm	15.00 m	
Circular 100mm =	18.41 m	2
Circular 150mm	2.99 m	
Circular 150mm	1.04 m	
Circular 150mm	13.00 m	
Circular 150mm	8.07 m	
Circular 150mm	14.17 m	
Circular 150mm	15.86 m	
Circular 150mm	4.00 m	
Circular 150mm	2.48 m	
Circular 150mm =	61.61 m	8
Circular 225mm	30.00 m	
Circular 225mm	60.00 m	
Circular 225mm	50.00 m	
Circular 225mm =	140.00 m	3
Total =	220.02 m	13



Project Summary

Project Name
15580 Survey Ops BAE SYSTEMS

Project Number
15580

Project Date
13/08/2025

Inspection Summary

Pipe No.	Insp. No.	Upstream Node	Downstream Node	Dir.	Operator	Insp. Date	Insp. Time	Str	Ser	Final Observation	Length
1	1	MH01	MH02	DS	Ls	13/08/2025	9:51	1	3	MHF, MANHOLE LOCATED ADJACENT TO STAIRCASE	2.99 m
2	1	MH01A	MH01	US	Ls	13/08/2025	9:54	1	5	GYF, COVERED GULLY	1.04 m
3	1	MH02A	MH02	US	Ls	13/08/2025	10:26	1	1	GYF	3.41 m
4	1	MH03	MH02	US	Ls	13/08/2025	10:34	1	4	MHF, MANHOLE LOCATED ADJACENT TO COOLING UNIT	13.00 m
5	1	MH02	MH02J	DS	Ls	13/08/2025	10:42	1	3	BRF	8.07 m
6	1	MH04	MH05	DS	Ls	13/08/2025	10:54	2	3	MHF, MANHOLE LOCATED ADJACENT TO FIRE EXIT	14.17 m
7	1	MH06	MH06J	DS	Ls	13/08/2025	11:45	1	3	SA, CLEANSE REQ	7.91 m
8	1	MH04A	MH04	US	Ls	13/08/2025	12:17	1	3	GYF	15.86 m
9	1	MH04B	MH04	US	Ls	13/08/2025	12:25	1	4	SA, UNABLE TO PASS PIPE GULLY IN VIEW	1.58 m
10	1	MH09	MH08	DS	Ls	14/08/2025	12:20	1	3	MHF	2.48 m
11	1	MH07	MH08	DS	Ls	14/08/2025	13:08	1	4	SA, CLEANSE REQ	9.57 m
11	2	MH07	MH08	US	Ls	14/08/2025	12:29	3	4	SA, CLEANSE REQ	1.44 m
12	1	MH08A	MH08	US	Ls	14/08/2025	12:32	2	4	SA, CLEANSE REQ	40.45 m
13	1	MH08	MH10	DS	Ls	14/08/2025	12:44	4	4	SA, UNABLE TO PROCEED WITH SURVEY DUE F	36.75 m
Total:											158.72 m

Inspection Summary by Profile

Profile	Total Length	No. Inspections
Circular 100mm	3.41 m	
Circular 100mm	7.91 m	
Circular 100mm =	11.32 m	2
Circular 150mm	2.99 m	
Circular 150mm	1.04 m	
Circular 150mm	13.00 m	
Circular 150mm	8.07 m	
Circular 150mm	14.17 m	
Circular 150mm	15.86 m	
Circular 150mm	1.58 m	
Circular 150mm	2.48 m	
Circular 150mm =	59.19 m	8
Circular 225mm	9.57 m	

Project Summary

Project Name 15580 Survey Ops BAE SYSTEMS	Project Number 15580	Project Date 13/08/2025
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Profile	Total Length	No. Inspections
Circular 225mm	1.44 m	
Circular 225mm	40.45 m	
Circular 225mm	36.75 m	
Circular 225mm =	88.21 m	4
Total =	158.72 m	14

Defect Summary				CCTV Drainage Survey Observation Count																				
				General				Structural Condition								Service Condition					Misc			
Sect. No.	Insp. No.	Upstream Node	Downstream Node	Insp. Length (m)	No. Grade 4/5 Obs.	Survey Abandoned	Camera Under Water	Cracks	Fractures	Broken	Deformed	Collapsed	Holes	Surface Damage	Displaced Joints	Open Joints	Roots	Infiltration	Encrustation	Silt	Grease	Obstruction	Water Level	Line Deviates
1	1	MH01	MH02	3.0														1					1	1
2	1	MH01A	MH01	1.0														1		1			1	1
3	1	MH02A	MH02	3.4																			1	
4	1	MH03	MH02	13.0																2			2	
5	1	MH02	MH02J	8.1																2			2	1
6	1	MH04	MH05	14.2				1												2			1	
7	1	MH06	MH06J	7.9		1												1		3			1	
8	1	MH04A	MH04	15.9																3			1	1
9	1	MH04B	MH04	1.6	1	1									1								1	
10	1	MH09	MH08	2.5														1		1			1	1
11	1	MH07	MH08	9.6	1	1														2			1	
11	2	MH07	MH08	1.4		1			2														1	
12	1	MH08A	MH08	40.5		1		2											1				1	3
13	1	MH08	MH10	36.8	2	1			1	1	1								2	2			1	
Total:				158.7	4	6		3	3	1	1				1			4	3	18			16	8

Section Inspection - 13/08/2025 - MH01X

Item No. 1	Insp. No. 1	Date 13/08/25	Time 9:51	Client's Job Ref 15580	Weather No Rain Or Snow	Pre Cleaned No	PLR MH01X
Operator LS		Vehicle RJ16HKB		Camera Push Rod	Preset Length 0.60 m	Criticality Grade Category C	Alternative ID MH01

Town or Village:	Blackburn	Inspection Direction:	Downstream	Upstream Node:	MH01
Road:	Myerscough Smithy Rd	Inspected Length:	2.99 m	Upstream Pipe Depth:	0.400 m
Location:	Property or buildings	Total Length:	2.99 m	Downstream Node:	MH02
Surface Type:	Asphalt Highway	Joint Length:		Downstream Pipe Depth:	0.990 m
Use:	Surface water		Pipe Shape:	Circular	
Type of Pipe:	Gravity drain/sewer		Dia/Height:	150 mm	
Flow Control:	No flow control		Pipe Material:	Polyvinyl chloride	
Year Constructed:	Not Specified		Lining Type:	No Lining	
Inspection Purpose:	Other purpose		Lining Material:	No Lining	
Comments:	None				
Recommendations:	None				

Scale:	1:50	Position [m]	Code	Observation	Grade
Depth: 0.40 m MH01 					
IC	Start node, inspection chamber, reference: MH01: IC LOCATED ADJACENT TO STAIRCASE				
WL	Water level, 5% of the vertical dimension				
DEX	Settled deposits, other, 5% cross-sectional area loss: DEBRIS	3			
LL	Line deviates left				
MHF	Finish node, manhole, reference: MH02: MANHOLE LOCATED ADJACENT TO STAIRCASE				
IC - 0.00 IC - 0.00 IC - 0.00 MHF - 2.99 MHF - 2.99 MHF - 2.99 DEX - 0.55 DEX - 0.55 DEX - 0.55					

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	1	2.0	0.7	2.0	3.0

Section Pictures - 13/08/2025 - MH01X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
1	Downstream	MH01X	15580	.



MH01X_D_13082025_0951_001.jpg, 00:00:00, 0.00 m
Start node, inspection chamber, reference: MH01, IC LOCATED ADJACENT TO STAIRCASE



MH01X_D_13082025_0951_002.jpg, 00:00:00, 0.00 m
Start node, inspection chamber, reference: MH01, IC LOCATED ADJACENT TO STAIRCASE

Section Pictures - 13/08/2025 - MH01X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
1	Downstream	MH01X	15580	.



MH01X_D_13082025_0951_003.jpg, 00:00:14, 0.55 m
 Settled deposits, other, 5% cross-sectional area loss, DEBRIS



MH01X_D_13082025_0951_004.jpg, 00:00:30, 2.99 m
 Finish node, manhole, reference: MH02, MANHOLE LOCATED ADJACENT TO STAIRCASE

Section Pictures - 13/08/2025 - MH01X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
1	Downstream	MH01X	15580	.

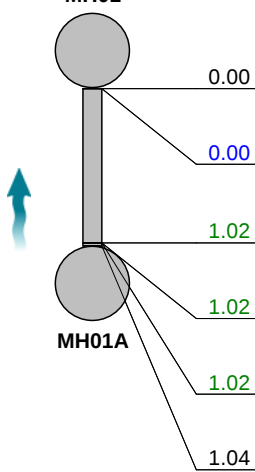


MH01X_D_13082025_0951_005.jpg, 00:00:30, 2.99 m
 Finish node, manhole, reference: MH02, MANHOLE LOCATED ADJACENT TO STAIRCASE

Section Inspection - 13/08/2025 - MH01AX

Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
2	1	13/08/25	9:54	15580	No Rain Or Snow	No	MH01AX
Operator		Vehicle		Camera	Preset Length	Criticality Grade	Alternative ID
LS		RJ16HKB		Push Rod	0.60 m	Category C	MH01A

Town or Village:	Blackburn	Inspection Direction:	Upstream	Upstream Node:	MH01A
Road:	Myerscough Smithy Rd	Inspected Length:	1.04 m	Upstream Pipe Depth:	
Location:	Property or buildings	Total Length:	1.04 m	Downstream Node:	MH01
Surface Type:	Asphalt Highway	Joint Length:		Downstream Pipe Depth:	0.400 m
Use:	Surface water		Pipe Shape:	Circular	
Type of Pipe:	Gravity drain/sewer		Dia/Height:	150 mm	
Flow Control:	No flow control		Pipe Material:	Polyvinyl chloride	
Year Constructed:	Not Specified		Lining Type:	No Lining	
Inspection Purpose:	Other purpose		Lining Material:	No Lining	
Comments:	None				
Recommendations:	CLEANSE				

Scale:	1:50	Position [m]	Code	Observation	Grade
Depth: 0.40 m MH01  Depth: m					
		0.00	IC	Start node, inspection chamber, reference: MH01: IC LOCATED ADJACENT TO STAIR CASE	
		0.00	WL	Water level, 0% of the vertical dimension	
		1.02	DEX	Settled deposits, other, 20% cross-sectional area loss: DEBRIS	4
		1.02	LU	Line deviates up	
		1.02	DES	Settled deposits, fine, 10% cross-sectional area loss	3
		1.04	GYF	Finish node, gully, reference: MH01A: COVERED GULLY	
 IC - 0.00  IC - 0.00  DEX - 1.02  LU - 1.02  DES - 1.02					

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	2	7.0	6.7	7.0	5.0

Section Pictures - 13/08/2025 - MH01AX

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
2	Upstream	MH01AX	15580	.



MH01AX_U_13082025_0954_006.jpg, 00:00:00, 0.00 m
Start node, inspection chamber, reference: MH01, IC LOCATED ADJACENT TO STAIR CASE



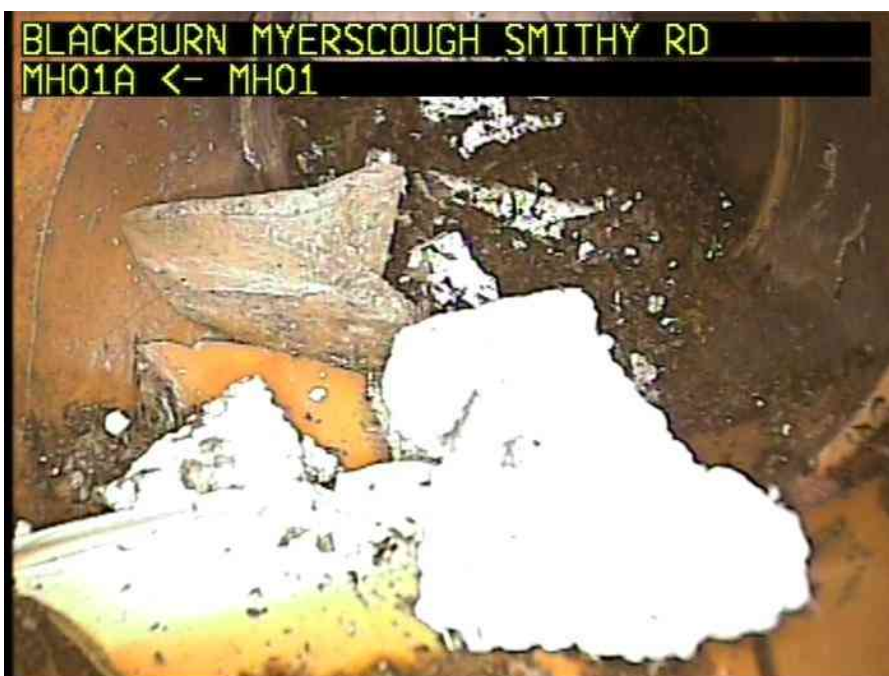
MH01AX_U_13082025_0954_007.jpg, 00:00:00, 0.00 m
Start node, inspection chamber, reference: MH01, IC LOCATED ADJACENT TO STAIR CASE

Section Pictures - 13/08/2025 - MH01AX

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
2	Upstream	MH01AX	15580	.



MH01AX_U_13082025_0954_008.jpg, 00:00:21, 1.02 m
 Settled deposits, other, 20% cross-sectional area loss, DEBRIS



MH01AX_U_13082025_0954_009.jpg, 00:00:24, 1.02 m
 Line deviates up

Section Pictures - 13/08/2025 - MH01AX

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
2	Upstream	MH01AX	15580	.

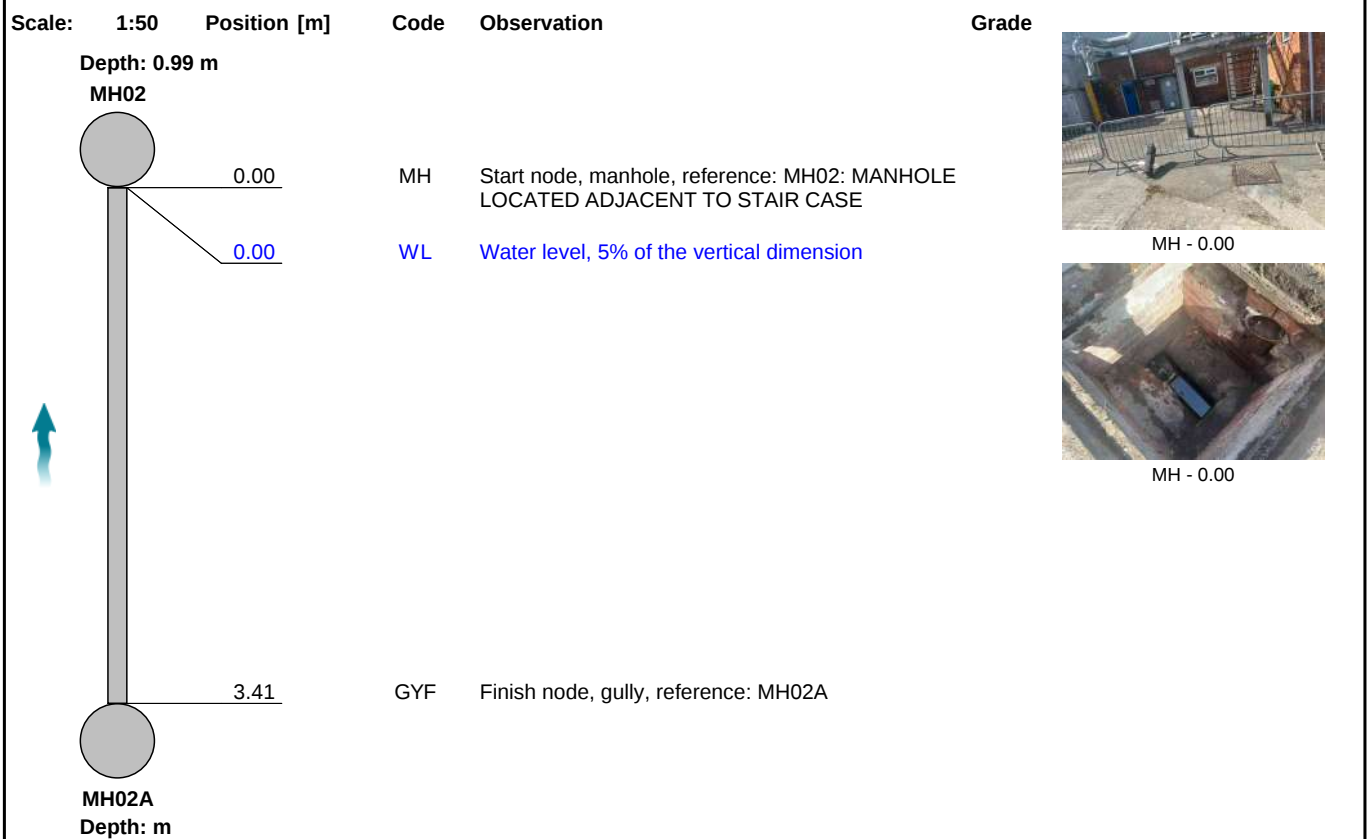


MH01AX_U_13082025_0954_010.jpg, 00:00:27, 1.02 m
 Settled deposits, fine, 10% cross-sectional area loss

Section Inspection - 13/08/2025 - MH02AX

Item No. 3	Insp. No. 1	Date 13/08/25	Time 10:26	Client's Job Ref 15580	Weather No Rain Or Snow	Pre Cleaned No	PLR MH02AX
Operator LS		Vehicle RJ16HKB		Camera Push Rod	Preset Length 0.40 m	Criticality Grade Category C	Alternative ID MH02A

Town or Village:	Blackburn	Inspection Direction:	Upstream	Upstream Node:	MH02A
Road:	Myerscough Smithy Rd	Inspected Length:	3.41 m	Upstream Pipe Depth:	
Location:	Property or buildings	Total Length:	3.41 m	Downstream Node:	MH02
Surface Type:	Asphalt Highway	Joint Length:		Downstream Pipe Depth:	0.990 m
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Flow Control:	No flow control	Pipe Material:	Polyvinyl chloride		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Other purpose	Lining Material:	No Lining		
Comments:	None				
Recommendations:	None				



Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

Section Pictures - 13/08/2025 - MH02AX

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
3	Upstream	MH02AX	15580	.



MH02AX_U_13082025_1026_011.jpg, 00:00:00, 0.00 m
Start node, manhole, reference: MH02, MANHOLE LOCATED ADJACENT TO STAIR CASE

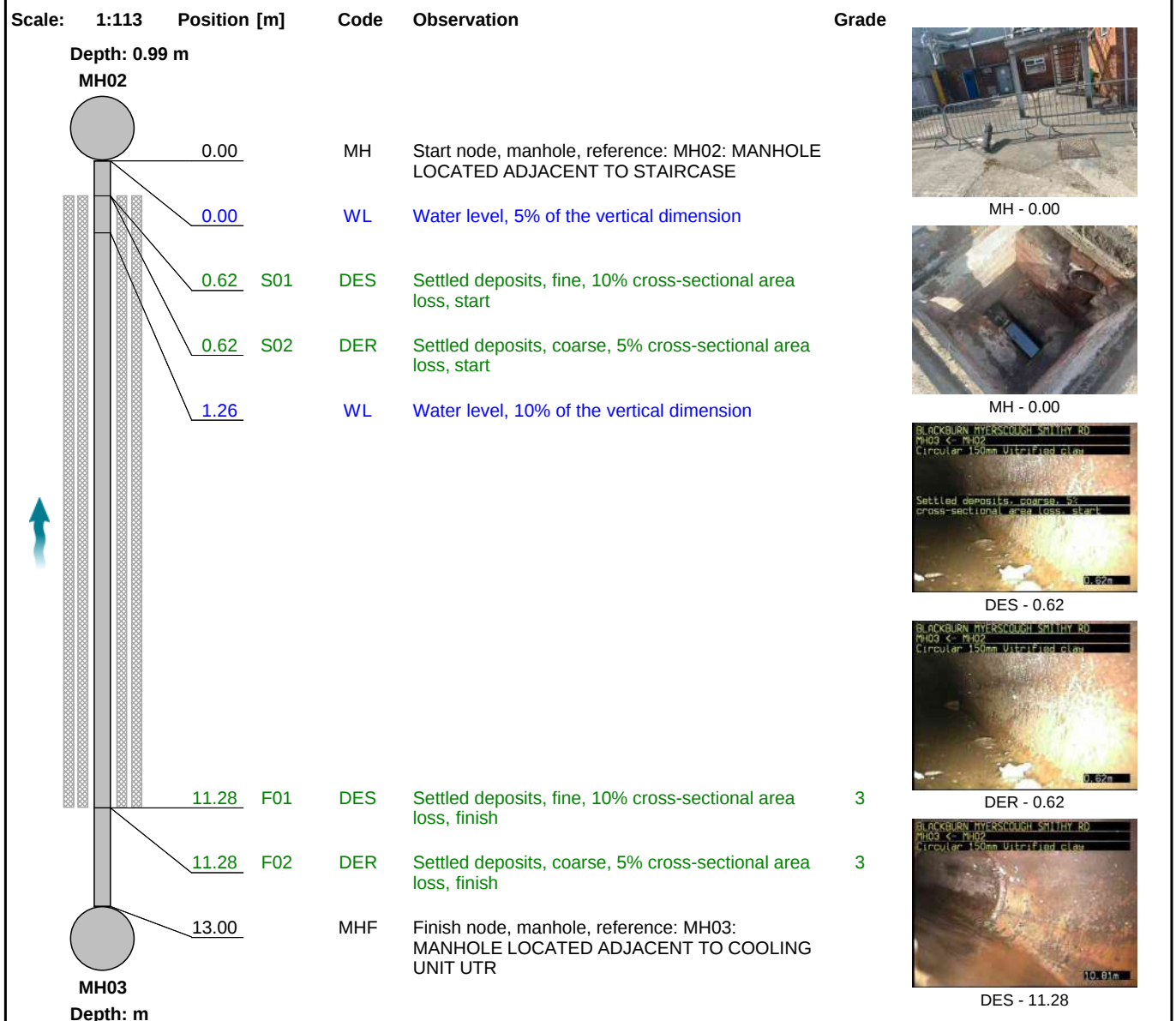


MH02AX_U_13082025_1026_012.jpg, 00:00:00, 0.00 m
Start node, manhole, reference: MH02, MANHOLE LOCATED ADJACENT TO STAIR CASE

Section Inspection - 13/08/2025 - MH03X

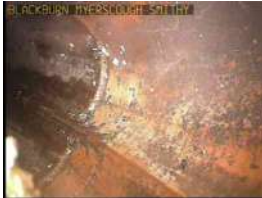
Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
4	1	13/08/25	10:34	15580	No Rain Or Snow	No	MH03X
Operator		Vehicle		Camera	Preset Length	Criticality Grade	Alternative ID
LS		RJ16HKB		Push Rod	0.60 m	Category C	MH03

Town or Village:	Blackburn	Inspection Direction:	Upstream	Upstream Node:	MH03
Road:	Myerscough Smithy Rd	Inspected Length:	13.00 m	Upstream Pipe Depth:	
Location:	Property or buildings	Total Length:	13.00 m	Downstream Node:	MH02
Surface Type:	Asphalt Highway	Joint Length:	1.00 m	Downstream Pipe Depth:	0.990 m
Use:	Surface water		Pipe Shape:	Circular	
Type of Pipe:	Gravity drain/sewer		Dia/Height:	150 mm	
Flow Control:	No flow control		Pipe Material:	Vitrified clay	
Year Constructed:	Not Specified		Lining Type:	No Lining	
Inspection Purpose:	Other purpose		Lining Material:	No Lining	
Comments:	None				
Recommendations:	CLEANSE				



Section Inspection - 13/08/2025 - MH03X

Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
4	1	13/08/25	10:34	15580	No Rain Or Snow	No	MH03X
Operator		Vehicle		Camera	Preset Length	Criticality Grade	Alternative ID
LS		RJ16HKB		Push Rod	0.60 m	Category C	MH03



DER - 11.28



MHF - 13.00



MHF - 13.00

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	2	4.0	3.4	44.0	4.0

Section Pictures - 13/08/2025 - MH03X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
4	Upstream	MH03X	15580	.



MH03X_U_13082025_1034_013.jpg, 00:00:00, 0.00 m
 Start node, manhole, reference: MH02, MANHOLE LOCATED ADJACENT TO STAIRCASE



MH03X_U_13082025_1034_014.jpg, 00:00:00, 0.00 m
 Start node, manhole, reference: MH02, MANHOLE LOCATED ADJACENT TO STAIRCASE

Section Pictures - 13/08/2025 - MH03X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
4	Upstream	MH03X	15580	.



MH03X_U_13082025_1034_015.jpg, 00:00:19, 0.62 m
 Settled deposits, fine, 10% cross-sectional area loss, start



MH03X_U_13082025_1034_016.jpg, 00:00:21, 0.62 m
 Settled deposits, coarse, 5% cross-sectional area loss, start

Section Pictures - 13/08/2025 - MH03X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
4	Upstream	MH03X	15580	.



MH03X_U_13082025_1034_017.jpg, 00:01:45, 11.28 m
 Settled deposits, fine, 10% cross-sectional area loss, finish



MH03X_U_13082025_1034_018.jpg, 00:01:46, 11.28 m
 Settled deposits, coarse, 5% cross-sectional area loss, finish

Section Pictures - 13/08/2025 - MH03X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
4	Upstream	MH03X	15580	.



MH03X_U_13082025_1034_019.jpg, 00:01:47, 13.00 m
 Finish node, manhole, reference: MH03, MANHOLE LOCATED ADJACENT TO COOLING
 UNIT UTR

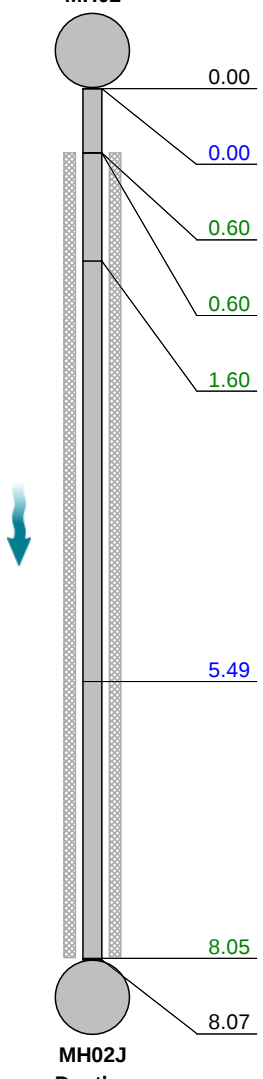


MH03X_U_13082025_1034_020.jpg, 00:01:47, 13.00 m
 Finish node, manhole, reference: MH03, MANHOLE LOCATED ADJACENT TO COOLING
 UNIT UTR

Section Inspection - 13/08/2025 - MH02X

Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
5	1	13/08/25	10:42	15580	No Rain Or Snow	No	MH02X
Operator		Vehicle		Camera	Preset Length	Criticality Grade	Alternative ID
LS		RJ16HKB		Push Rod	0.60 m	Category C	MH02

Town or Village:	Blackburn	Inspection Direction:	Downstream	Upstream Node:	MH02
Road:	Myerscough Smithy Rd	Inspected Length:	8.07 m	Upstream Pipe Depth:	0.990 m
Location:	Property or buildings	Total Length:	8.07 m	Downstream Node:	MH02J
Surface Type:	Asphalt Highway	Joint Length:	1.00 m	Downstream Pipe Depth:	
Use:	Surface water		Pipe Shape:	Circular	
Type of Pipe:	Gravity drain/sewer		Dia/Height:	150 mm	
Flow Control:	No flow control		Pipe Material:	Vitrified clay	
Year Constructed:	Not Specified		Lining Type:	No Lining	
Inspection Purpose:	Other purpose		Lining Material:	No Lining	
Comments:	None				
Recommendations:	CLEANSE				

Scale:	1:70	Position [m]	Code	Observation	Grade
Depth: 0.99 m MH02 					
	0.00	MH		Start node, manhole, reference: MH02: MANHOLE LOCATED ADJACENT TO STAIRCASE	
	0.00	WL		Water level, 5% of the vertical dimension	
	0.60	S02	DES	Settled deposits, fine, 5% cross-sectional area loss, start	
	0.60	LR		Line deviates right	
	1.60	DER		Settled deposits, coarse, 10% cross-sectional area loss	3
	5.49	WL		Water level, 20% of the vertical dimension	
	8.05	F02	DES	Settled deposits, fine, 5% cross-sectional area loss, finish	3
	8.07	BRF		Finish node, major connection without manhole, reference: MH02J	
		MH02J			
		Depth: m			



MH - 0.00



MH - 0.00



DER - 1.60



DES - 8.05

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	2	4.0	2.2	18.0	3.0

Section Pictures - 13/08/2025 - MH02X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
5	Downstream	MH02X	15580	.



MH02X_D_13082025_1042_021.jpg, 00:00:00, 0.00 m
Start node, manhole, reference: MH02, MANHOLE LOCATED ADJACENT TO STAIRCASE



MH02X_D_13082025_1042_022.jpg, 00:00:00, 0.00 m
Start node, manhole, reference: MH02, MANHOLE LOCATED ADJACENT TO STAIRCASE

Section Pictures - 13/08/2025 - MH02X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
5	Downstream	MH02X	15580	.



MH02X_D_13082025_1042_023.jpg, 00:00:41, 1.60 m
 Settled deposits, coarse, 10% cross-sectional area loss

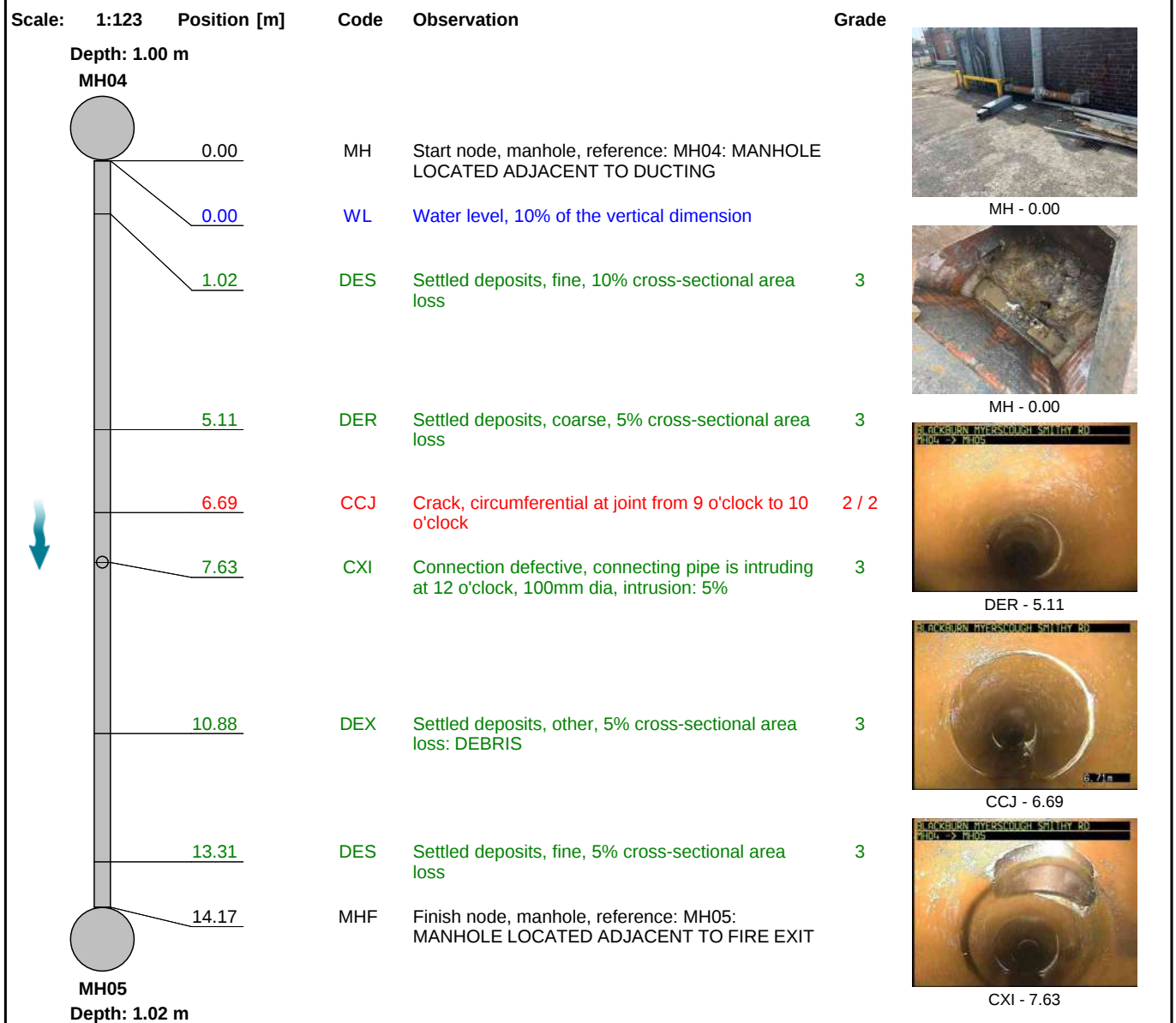


MH02X_D_13082025_1042_024.jpg, 00:01:15, 8.05 m
 Settled deposits, fine, 5% cross-sectional area loss, finish

Section Inspection - 13/08/2025 - MH04X

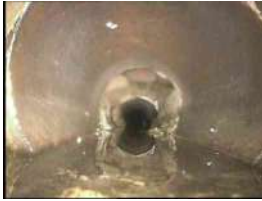
Item No. 6	Insp. No. 1	Date 13/08/25	Time 10:54	Client's Job Ref 15580	Weather No Rain Or Snow	Pre Cleaned No	PLR MH04X
Operator LS		Vehicle RJ16HKB		Camera Push Rod	Preset Length 0.60 m	Criticality Grade Category C	Alternative ID MH04

Town or Village:	Blackburn	Inspection Direction:	Downstream	Upstream Node:	MH04
Road:	Myerscough Smithy Rd	Inspected Length:	14.17 m	Upstream Pipe Depth:	1.000 m
Location:	Property or buildings	Total Length:	14.17 m	Downstream Node:	MH05
Surface Type:	Asphalt Highway	Joint Length:	1.00 m	Downstream Pipe Depth:	1.019 m
Use:	Surface water		Pipe Shape:	Circular	
Type of Pipe:	Gravity drain/sewer		Dia/Height:	150 mm	
Flow Control:	No flow control		Pipe Material:	Vitrified clay	
Year Constructed:	Not Specified		Lining Type:	No Lining	
Inspection Purpose:	Other purpose		Lining Material:	No Lining	
Comments:	None				
Recommendations:	CLEANSE				



Section Inspection - 13/08/2025 - MH04X

Item No. 6	Insp. No. 1	Date 13/08/25	Time 10:54	Client's Job Ref 15580	Weather No Rain Or Snow	Pre Cleaned No	PLR MH04X
Operator LS		Vehicle RJ16HKB		Camera Push Rod	Preset Length 0.60 m	Criticality Grade Category C	Alternative ID MH04



DES - 13.31



MHF - 14.17



MHF - 14.17

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
1	10.0	0.7	10.0	2.0	6	2.0	0.8	11.0	3.0

Section Pictures - 13/08/2025 - MH04X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
6	Downstream	MH04X	15580	.



MH04X_D_13082025_1054_025.jpg, 00:00:00, 0.00 m
 Start node, manhole, reference: MH04, MANHOLE LOCATED ADJACENT TO DUCTING



MH04X_D_13082025_1054_026.jpg, 00:00:00, 0.00 m
 Start node, manhole, reference: MH04, MANHOLE LOCATED ADJACENT TO DUCTING

Section Pictures - 13/08/2025 - MH04X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
6	Downstream	MH04X	15580	.



MH04X_D_13082025_1054_027.jpg, 00:00:29, 5.11 m
 Settled deposits, coarse, 5% cross-sectional area loss



MH04X_D_13082025_1054_028.jpg, 00:00:46, 6.69 m
 Crack, circumferential at joint from 9 o'clock to 10 o'clock

Section Pictures - 13/08/2025 - MH04X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
6	Downstream	MH04X	15580	.



MH04X_D_13082025_1054_029.jpg, 00:00:54, 7.63 m
 Connection defective, connecting pipe is intruding at 12 o'clock, 100mm dia, intrusion: 5%



MH04X_D_13082025_1054_030.jpg, 00:01:27, 13.31 m
 Settled deposits, fine, 5% cross-sectional area loss

Section Pictures - 13/08/2025 - MH04X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
6	Downstream	MH04X	15580	.



MH04X_D_13082025_1054_031.jpg, 00:01:33, 14.17 m
Finish node, manhole, reference: MH05, MANHOLE LOCATED ADJACENT TO FIRE EXIT

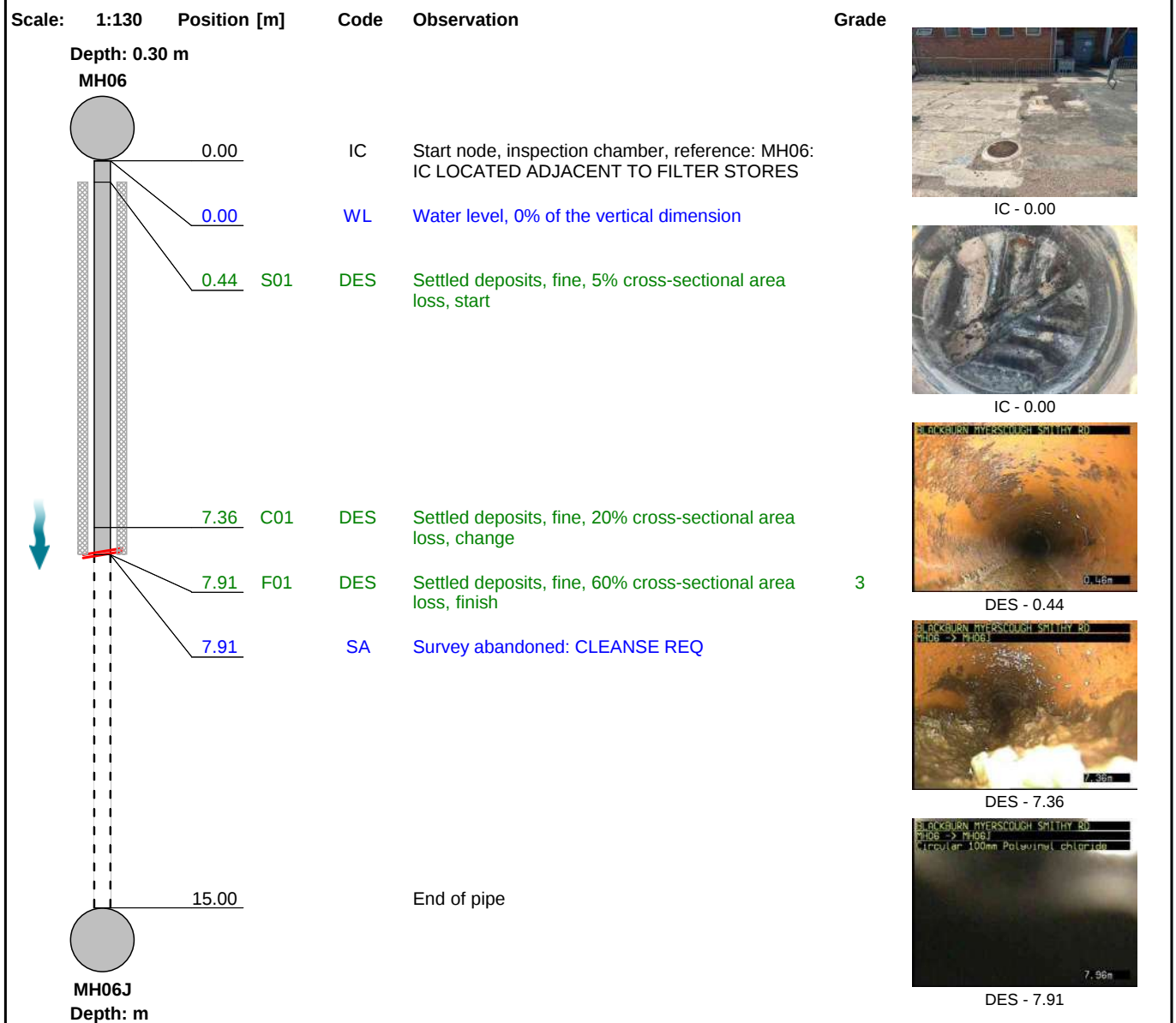


MH04X_D_13082025_1054_032.jpg, 00:01:33, 14.17 m
Finish node, manhole, reference: MH05, MANHOLE LOCATED ADJACENT TO FIRE EXIT

Section Inspection - 13/08/2025 - MH06X

Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
7	1	13/08/25	11:45	15580	No Rain Or Snow	No	MH06X
Operator		Vehicle		Camera	Preset Length	Criticality Grade	Alternative ID
LS		RJ16HKB		Push Rod	0.40 m	Category C	MH06

Town or Village:	Blackburn	Inspection Direction:	Downstream	Upstream Node:	MH06
Road:	Myerscough Smithy Rd	Inspected Length:	7.91 m	Upstream Pipe Depth:	0.300 m
Location:	Property or buildings	Total Length:	15.00 m	Downstream Node:	MH06J
Surface Type:	Asphalt Highway	Joint Length:		Downstream Pipe Depth:	
Use:	Surface water		Pipe Shape:	Circular	
Type of Pipe:	Gravity drain/sewer		Dia/Height:	100 mm	
Flow Control:	No flow control		Pipe Material:	Polyvinyl chloride	
Year Constructed:	Not Specified		Lining Type:	No Lining	
Inspection Purpose:	Other purpose		Lining Material:	No Lining	
Comments:	None				
Recommendations:	CLEANSE				



Section Inspection - 13/08/2025 - MH06X

Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
7	1	13/08/25	11:45	15580	No Rain Or Snow	No	MH06X
Operator		Vehicle		Camera	Preset Length	Criticality Grade	Alternative ID
LS		RJ16HKB		Push Rod	0.40 m	Category C	MH06



SA - 7.91

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	1	2.0	2.0	16.0	3.0

Section Pictures - 13/08/2025 - MH06X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
7	Downstream	MH06X	15580	.



MH06X_D_13082025_1145_033.jpg, 00:00:00, 0.00 m
 Start node, inspection chamber, reference: MH06, IC LOCATED ADJACENT TO FILTER STORES



MH06X_D_13082025_1145_034.jpg, 00:00:00, 0.00 m
 Start node, inspection chamber, reference: MH06, IC LOCATED ADJACENT TO FILTER STORES

Section Pictures - 13/08/2025 - MH06X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
7	Downstream	MH06X	15580	.



MH06X_D_13082025_1145_035.jpg, 00:00:05, 0.44 m
 Settled deposits, fine, 5% cross-sectional area loss, start



MH06X_D_13082025_1145_036.jpg, 00:00:39, 7.36 m
 Settled deposits, fine, 20% cross-sectional area loss, change

Section Pictures - 13/08/2025 - MH06X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
7	Downstream	MH06X	15580	.



MH06X_D_13082025_1145_037.jpg, 00:00:56, 7.91 m
 Settled deposits, fine, 60% cross-sectional area loss, finish



MH06X_D_13082025_1145_038.jpg, 00:00:57, 7.91 m
 Survey abandoned, CLEANSE REQ

Section Inspection - 13/08/2025 - MH04AX

Item No. 8	Insp. No. 1	Date 13/08/25	Time 12:17	Client's Job Ref 15580	Weather No Rain Or Snow	Pre Cleaned No	PLR MH04AX
Operator LS		Vehicle RJ16HKB		Camera Push Rod	Preset Length 0.60 m	Criticality Grade Category C	Alternative ID MH04A

Town or Village:	Blackburn	Inspection Direction:	Upstream	Upstream Node:	MH04A
Road:	Myerscough Smithy Rd	Inspected Length:	15.86 m	Upstream Pipe Depth:	
Location:	Property or buildings	Total Length:	15.86 m	Downstream Node:	MH04
Surface Type:	Asphalt Highway	Joint Length:	1.00 m	Downstream Pipe Depth:	1.000 m
Use:	Surface water		Pipe Shape:	Circular	
Type of Pipe:	Gravity drain/sewer		Dia/Height:	150 mm	
Flow Control:	No flow control		Pipe Material:	Vitrified clay	
Year Constructed:	Not Specified		Lining Type:	No Lining	
Inspection Purpose:	Other purpose		Lining Material:	No Lining	
Comments:	None				
Recommendations:	CLEANSE				

Scale:	1:138	Position [m]	Code	Observation	Grade
	Depth: 1.00 m	MH04			
	0.00	MH	Start node, manhole, reference: MH04: MANHOLE LOCATED ADJACENT TO DUCTING		
	0.00	WL	Water level, 10% of the vertical dimension		MH - 0.00
	0.60	S01	DES	Settled deposits, fine, 10% cross-sectional area loss, start	
	5.74	DER	Settled deposits, coarse, 5% cross-sectional area loss	3	MH - 0.00
	5.74	C01	DES	Settled deposits, fine, 5% cross-sectional area loss, change	
	6.72	CXI	Connection defective, connecting pipe is intruding at 12 o'clock, 100mm dia, intrusion: 5%	3	DES - 0.60
	7.22	DER	Settled deposits, coarse, 5% cross-sectional area loss	3	
	8.87	CN	Connection other than junction at 12 o'clock, 100mm dia		DES - 5.74
	10.54	JN	Junction at 3 o'clock, 150mm dia, from MH02J		
	11.94	MCPVC	Pipe material changes to polyvinyl chloride at this point		DER - 7.22
	12.00	F01	DES	Settled deposits, fine, 5% cross-sectional area loss, finish	
14.81	LR	Line deviates right			
15.86	GYF	Finish node, gully, reference: MH04A			
Depth: m	MH04A				

Section Inspection - 13/08/2025 - MH04AX

Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
8	1	13/08/25	12:17	15580	No Rain Or Snow	No	MH04AX
Operator		Vehicle		Camera	Preset Length	Criticality Grade	Alternative ID
LS		RJ16HKB		Push Rod	0.60 m	Category C	MH04A



GYF - 15.86

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	4	4.0	1.9	30.0	3.0

Section Pictures - 13/08/2025 - MH04AX

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
8	Upstream	MH04AX	15580	.



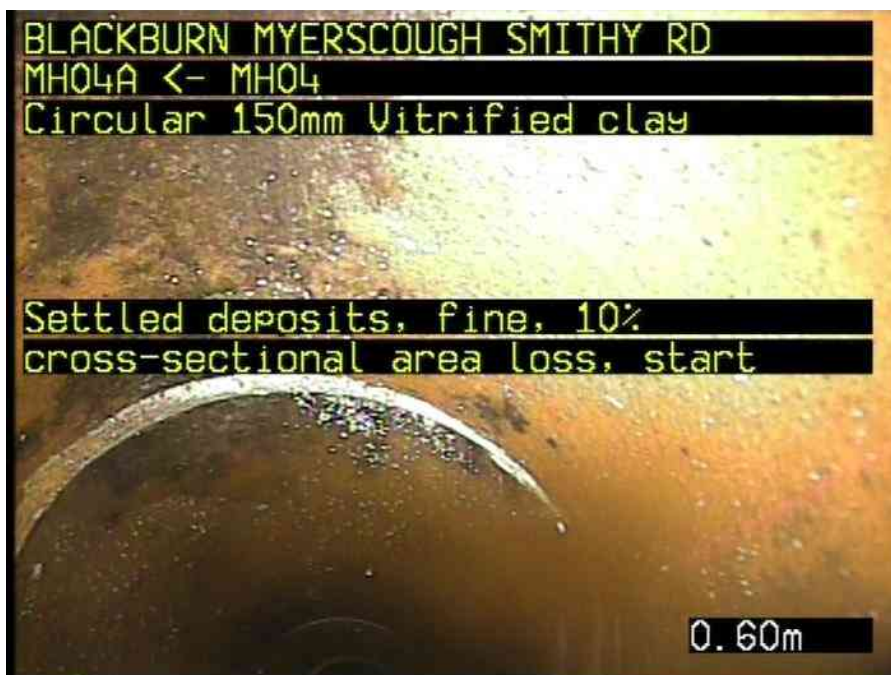
MH04AX_U_13082025_1217_039.jpg, 00:00:00, 0.00 m
 Start node, manhole, reference: MH04, MANHOLE LOCATED ADJACENT TO DUCTING



MH04AX_U_13082025_1217_040.jpg, 00:00:00, 0.00 m
 Start node, manhole, reference: MH04, MANHOLE LOCATED ADJACENT TO DUCTING

Section Pictures - 13/08/2025 - MH04AX

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
8	Upstream	MH04AX	15580	.



MH04AX_U_13082025_1217_041.jpg, 00:00:04, 0.60 m
 Settled deposits, fine, 10% cross-sectional area loss, start



MH04AX_U_13082025_1217_042.jpg, 00:00:40, 5.74 m
 Settled deposits, fine, 5% cross-sectional area loss, change

Section Pictures - 13/08/2025 - MH04AX

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
8	Upstream	MH04AX	15580	.



MH04AX_U_13082025_1217_043.jpg, 00:00:54, 7.22 m
 Settled deposits, coarse, 5% cross-sectional area loss

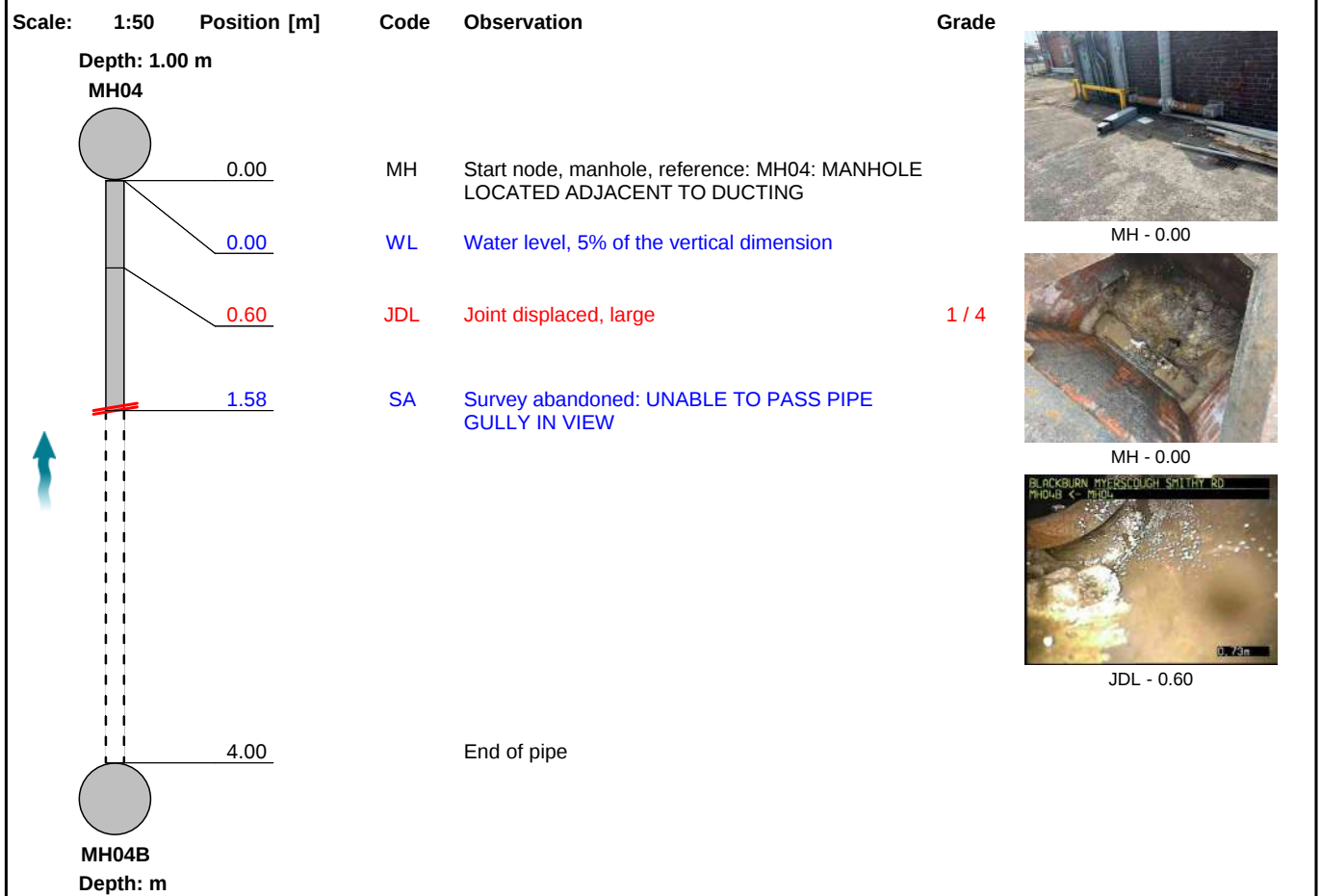


MH04AX_U_13082025_1217_044.jpg, 00:02:02, 15.86 m
 Finish node, gully, reference: MH04A

Section Inspection - 13/08/2025 - MH04BX

Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
9	1	13/08/25	12:25	15580	No Rain Or Snow	No	MH04BX
Operator		Vehicle		Camera	Preset Length	Criticality Grade	Alternative ID
LS		RJ16HKB		Push Rod	0.60 m	Category C	MH04

Town or Village:	Blackburn	Inspection Direction:	Upstream	Upstream Node:	MH04B
Road:	Myerscough Smithy Rd	Inspected Length:	1.58 m	Upstream Pipe Depth:	
Location:	Property or buildings	Total Length:	4.00 m	Downstream Node:	MH04
Surface Type:	Asphalt Highway	Joint Length:	1.00 m	Downstream Pipe Depth:	1.000 m
Use:	Surface water		Pipe Shape:	Circular	
Type of Pipe:	Gravity drain/sewer		Dia/Height:	150 mm	
Flow Control:	No flow control		Pipe Material:	Vitrified clay	
Year Constructed:	Not Specified		Lining Type:	No Lining	
Inspection Purpose:	Other purpose		Lining Material:	No Lining	
Comments:	None				
Recommendations:	PATCH				



Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
1	2.0	0.5	2.0	1.0	1	5.0	1.3	5.0	4.0

Section Pictures - 13/08/2025 - MH04BX

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
9	Upstream	MH04BX	15580	.



MH04BX_U_13082025_1225_045.jpg, 00:00:00, 0.00 m
Start node, manhole, reference: MH04, MANHOLE LOCATED ADJACENT TO DUCTING



MH04BX_U_13082025_1225_046.jpg, 00:00:00, 0.00 m
Start node, manhole, reference: MH04, MANHOLE LOCATED ADJACENT TO DUCTING

Section Pictures - 13/08/2025 - MH04BX

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
9	Upstream	MH04BX	15580	.

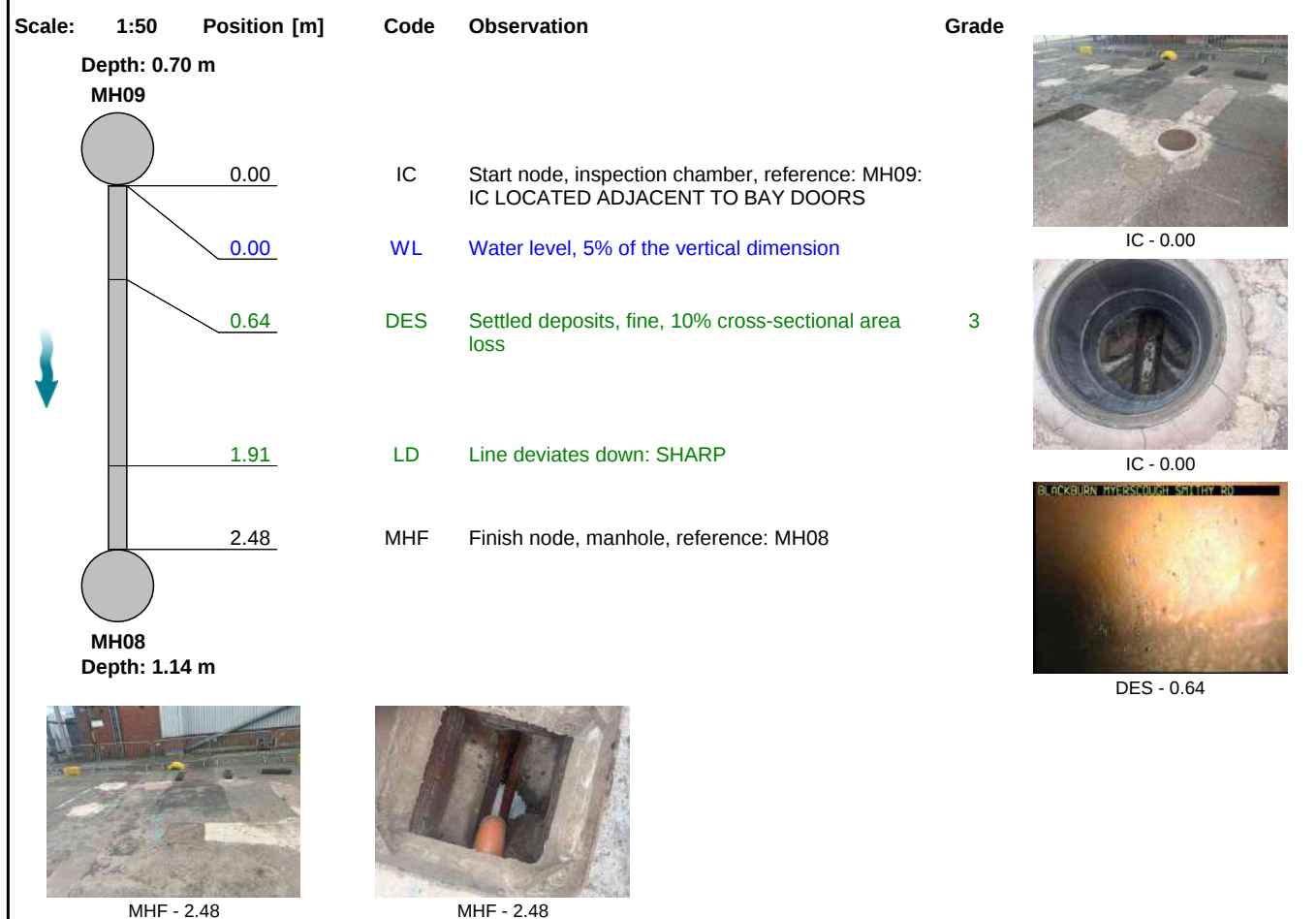


MH04BX_U_13082025_1225_047.jpg, 00:00:08, 0.60 m
 Joint displaced, large

Section Inspection - 14/08/2025 - MH09X

Item No. 10	Insp. No. 1	Date 14/08/25	Time 12:20	Client's Job Ref 15580	Weather No Rain Or Snow	Pre Cleaned No	PLR MH09X
Operator LS		Vehicle RJ16HKB		Camera Push Rod	Preset Length 0.60 m	Criticality Grade Category C	Alternative ID MH09

Town or Village:	Blackburn	Inspection Direction:	Downstream	Upstream Node:	MH09
Road:	Myerscough Smithy Rd	Inspected Length:	2.48 m	Upstream Pipe Depth:	0.700 m
Location:	Property or buildings	Total Length:	2.48 m	Downstream Node:	MH08
Surface Type:	Asphalt Highway	Joint Length:	1.00 m	Downstream Pipe Depth:	1.140 m
Use:	Surface water		Pipe Shape:	Circular	
Type of Pipe:	Gravity drain/sewer		Dia/Height:	150 mm	
Flow Control:	No flow control		Pipe Material:	Polyvinyl chloride	
Year Constructed:	Not Specified		Lining Type:	No Lining	
Inspection Purpose:	Other purpose		Lining Material:	No Lining	
Comments:	None				
Recommendations:	None				



Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	1	2.0	0.8	2.0	3.0

Section Pictures - 14/08/2025 - MH09X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
10	Downstream	MH09X	15580	.



MH09X_D_14082025_1220_048.jpg, 00:00:00, 0.00 m
 Start node, inspection chamber, reference: MH09, IC LOCATED ADJACENT TO BAY DOORS



MH09X_D_14082025_1220_049.jpg, 00:00:00, 0.00 m
 Start node, inspection chamber, reference: MH09, IC LOCATED ADJACENT TO BAY DOORS

Section Pictures - 14/08/2025 - MH09X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
10	Downstream	MH09X	15580	.



MH09X_D_14082025_1220_050.jpg, 00:00:10, 0.64 m
 Settled deposits, fine, 10% cross-sectional area loss



MH09X_D_14082025_1220_051.jpg, 00:00:27, 2.48 m
 Finish node, manhole, reference: MH08

Section Pictures - 14/08/2025 - MH09X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
10	Downstream	MH09X	15580	.

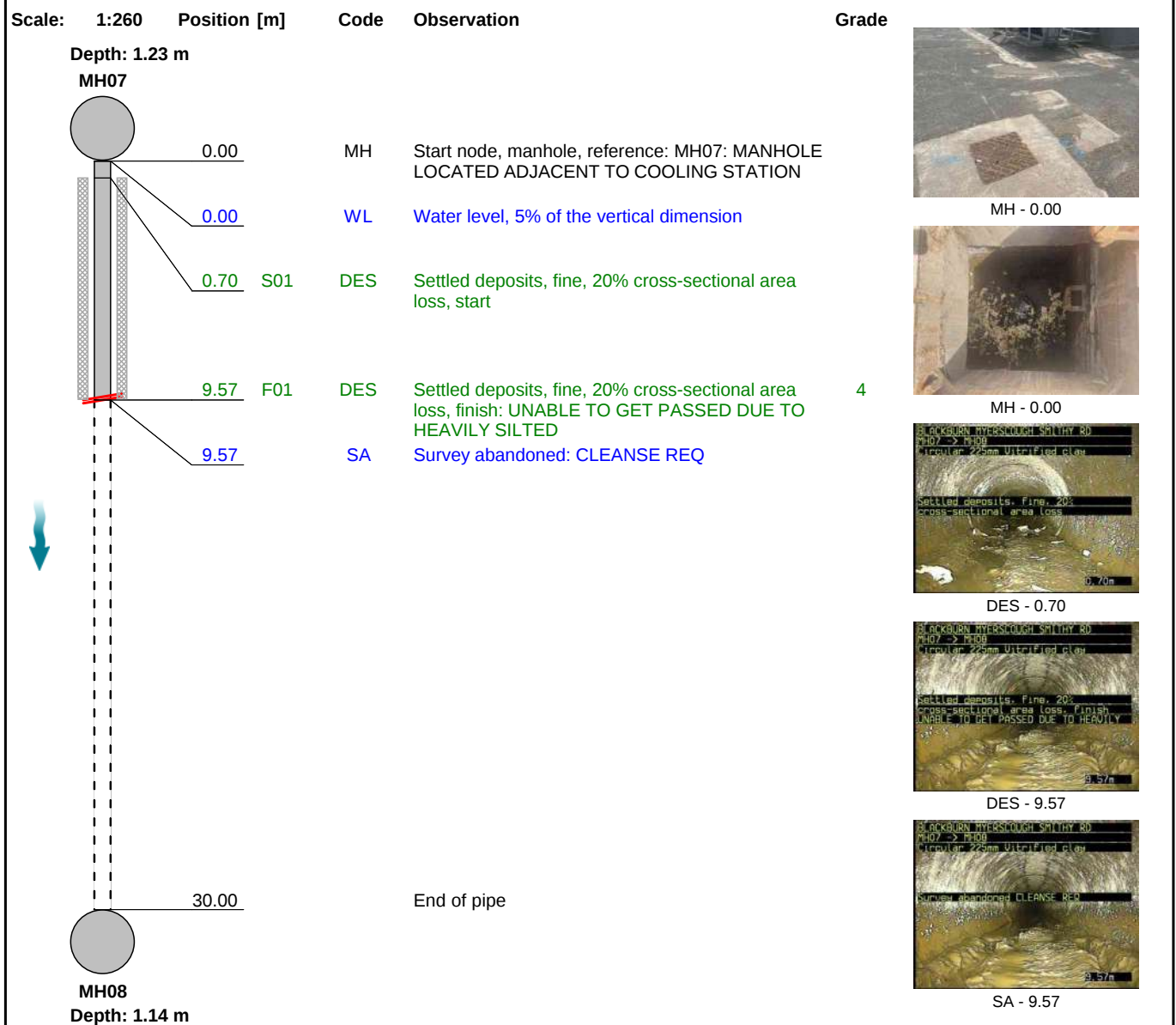


MH09X_D_14082025_1220_052.jpg, 00:00:27, 2.48 m
 Finish node, manhole, reference: MH08

Section Inspection - 14/08/2025 - MH07X

Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
11	2	14/08/25	13:08	15580	No Rain Or Snow	No	MH07X
Operator		Vehicle		Camera	Preset Length	Criticality Grade	Alternative ID
LS		RJ16HKB		Push Rod	0.70 m	Category C	MH07

Town or Village:	Blackburn	Inspection Direction:	Downstream	Upstream Node:	MH07
Road:	Myerscough SmithyRd	Inspected Length:	9.57 m	Upstream Pipe Depth:	1.230 m
Location:	Property or buildings	Total Length:	30.00 m	Downstream Node:	MH08
Surface Type:	Asphalt Highway	Joint Length:	1.00 m	Downstream Pipe Depth:	1.140 m
Use:	Surface water		Pipe Shape:	Circular	
Type of Pipe:	Gravity drain/sewer		Dia/Height:	225 mm	
Flow Control:	No flow control		Pipe Material:	Vitrified clay	
Year Constructed:	Not Specified		Lining Type:	No Lining	
Inspection Purpose:	Other purpose		Lining Material:	No Lining	
Comments:	None				
Recommendations:	CLEANSE				



Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	1	5.0	1.5	45.0	4.0

Section Pictures - 14/08/2025 - MH07X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
11	Downstream	MH07X	15580	.



MH07X_D_14082025_1308_058.jpg, 00:00:00, 0.00 m
 Start node, manhole, reference: MH07, MANHOLE LOCATED ADJACENT TO COOLING STATION



MH07X_D_14082025_1308_059.jpg, 00:00:00, 0.00 m
 Start node, manhole, reference: MH07, MANHOLE LOCATED ADJACENT TO COOLING STATION

Section Pictures - 14/08/2025 - MH07X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
11	Downstream	MH07X	15580	.



MH07X_D_14082025_1308_060.jpg, 00:00:05, 0.70 m
 Settled deposits, fine, 20% cross-sectional area loss, start



MH07X_D_14082025_1308_061.jpg, 00:01:32, 9.57 m
 Settled deposits, fine, 20% cross-sectional area loss, finish, UNABLE TO GET PASSED DUE
 TO HEAVILY SILTED

Section Pictures - 14/08/2025 - MH07X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
11	Downstream	MH07X	15580	.

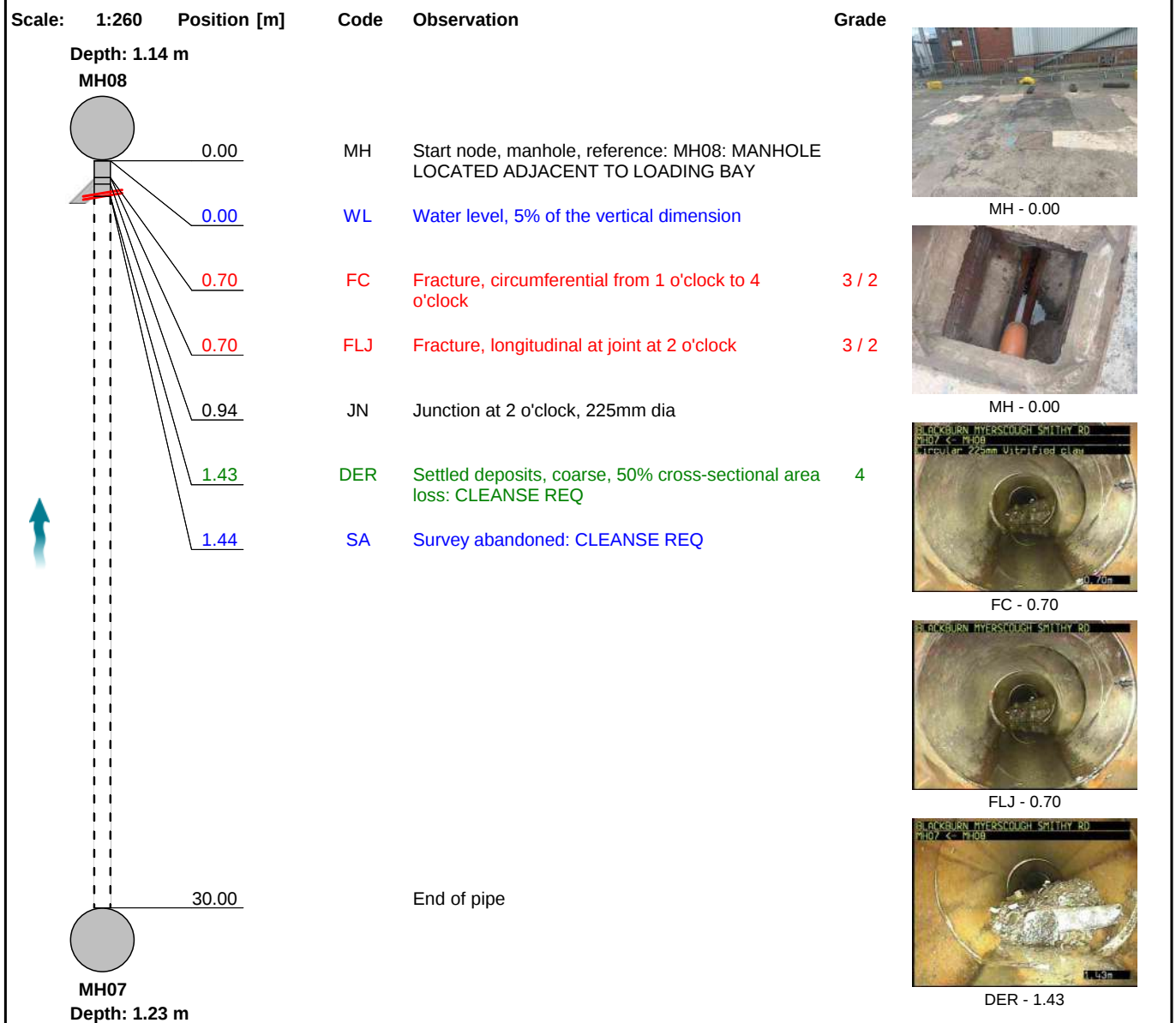


MH07X_D_14082025_1308_062.jpg, 00:01:37, 9.57 m
 Survey abandoned, CLEANSE REQ

Section Inspection - 14/08/2025 - MH07X

Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
11	1	14/08/25	12:29	15580	No Rain Or Snow	No	MH07X
Operator		Vehicle		Camera	Preset Length	Criticality Grade	Alternative ID
LS		RJ16HKB		Push Rod	0.70 m	Category C	MH07

Town or Village:	Blackburn	Inspection Direction:	Upstream	Upstream Node:	MH07
Road:	Myerscough Smithy Rd	Inspected Length:	1.44 m	Upstream Pipe Depth:	1.230 m
Location:	Property or buildings	Total Length:	30.00 m	Downstream Node:	MH08
Surface Type:	Asphalt Highway	Joint Length:	1.00 m	Downstream Pipe Depth:	1.140 m
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	225 mm		
Flow Control:	No flow control	Pipe Material:	Vitrified clay		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Other purpose	Lining Material:	No Lining		
Comments:	None				
Recommendations:	CLEANSE				



Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
2	80.0	2.7	80.0	3.0	3	8.0	0.3	10.0	4.0

Section Pictures - 14/08/2025 - MH07X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
11	Upstream	MH07X	15580	.



MH07X_U_14082025_1229_053.jpg, 00:00:00, 0.00 m
 Start node, manhole, reference: MH08, MANHOLE LOCATED ADJACENT TO LOADING BAY



MH07X_U_14082025_1229_054.jpg, 00:00:00, 0.00 m
 Start node, manhole, reference: MH08, MANHOLE LOCATED ADJACENT TO LOADING BAY

Section Pictures - 14/08/2025 - MH07X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
11	Upstream	MH07X	15580	.



MH07X_U_14082025_1229_055.jpg, 00:00:11, 0.70 m
 Fracture, circumferential from 1 o'clock to 4 o'clock



MH07X_U_14082025_1229_056.jpg, 00:00:15, 0.70 m
 Fracture, longitudinal at joint at 2 o'clock

Section Pictures - 14/08/2025 - MH07X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
11	Upstream	MH07X	15580	.

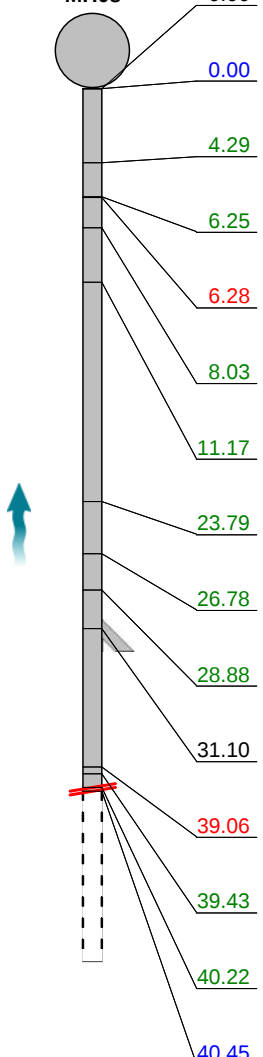
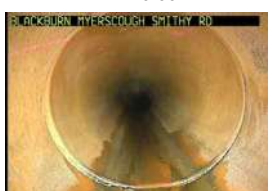


MH07X_U_14082025_1229_057.jpg, 00:00:25, 1.43 m
 Settled deposits, coarse, 50% cross-sectional area loss, CLEANSE REQ

Section Inspection - 14/08/2025 - MH08AX

Item No. 12	Insp. No. 1	Date 14/08/25	Time 12:32	Client's Job Ref 15580	Weather No Rain Or Snow	Pre Cleaned No	PLR MH08AX
Operator LS		Vehicle RJ16HKB		Camera Push Rod	Preset Length 0.70 m	Criticality Grade Category C	Alternative ID MH08A

Town or Village:	Blackburn	Inspection Direction:	Upstream	Upstream Node:	MH08A
Road:	Myerscough Smithy Rd	Inspected Length:	40.45 m	Upstream Pipe Depth:	
Location:	Property or buildings	Total Length:	60.00 m	Downstream Node:	MH08
Surface Type:	Asphalt Highway	Joint Length:	1.00 m	Downstream Pipe Depth:	1.140 m
Use:	Surface water		Pipe Shape:	Circular	
Type of Pipe:	Gravity drain/sewer		Dia/Height:	225 mm	
Flow Control:	No flow control		Pipe Material:	Vitrified clay	
Year Constructed:	Not Specified		Lining Type:	No Lining	
Inspection Purpose:	Other purpose		Lining Material:	No Lining	
Comments:	None				
Recommendations:	CLEANSE				

Scale: 1:435	Position [m]	Code	Observation	Grade	
Depth: 1.14 m					
	0.00	MH	Start node, manhole, reference: MH08: MANHOLE LOCATED ADJACENT TO LOADING BAY		 MH - 0.00
	0.00	WL	Water level, 5% of the vertical dimension		
	4.29	LL	Line deviates left: SLIGHT		 MH - 0.00
	6.25	LL	Line deviates left		
	6.28	CLJ	Crack, longitudinal at joint at 3 o'clock	2 / 2	 CLJ - 6.28
	8.03	LR	Line deviates right		
	11.17	DER	Settled deposits, coarse, 5% cross-sectional area loss	3	 DER - 11.17
	23.79	DER	Settled deposits, coarse, 5% cross-sectional area loss	3	
	26.78	DEE	Attached deposits, encrustation from 9 o'clock to 11 o'clock, 5% cross-sectional area loss	3	 DER - 23.79
	28.88	DER	Settled deposits, coarse, 5% cross-sectional area loss	3	
	31.10	JN	Junction at 9 o'clock, 225mm dia		
	39.06	CLJ	Crack, longitudinal at joint at 3 o'clock	2 / 2	
	39.43	DER	Settled deposits, coarse, 5% cross-sectional area loss	3	
	40.22	DER	Settled deposits, coarse, 30% cross-sectional area loss	4	
	40.45	SA	Survey abandoned: CLEANSE REQ		

Section Inspection - 14/08/2025 - MH08AX

Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
12	1	14/08/25	12:32	15580	No Rain Or Snow	No	MH08AX
Operator		Vehicle		Camera	Preset Length	Criticality Grade	Alternative ID
LS		RJ16HKB		Push Rod	0.70 m	Category C	MH08A

Scale: 1:435 Position [m] Code Observation

Grade



MH08A
Depth: m

60.00

End of pipe



DEE - 26.78



CLJ - 39.06



DER - 39.43



DER - 40.22

Construction Features

Structural Defects

Miscellaneous Features

Service & Operational Observations

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
2	10.0	0.3	20.0	2.0	8	5.0	0.3	17.0	4.0

Section Pictures - 14/08/2025 - MH08AX

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
12	Upstream	MH08AX	15580	.



MH08AX_U_14082025_1232_063.jpg, 00:00:00, 0.00 m
 Start node, manhole, reference: MH08, MANHOLE LOCATED ADJACENT TO LOADING BAY



MH08AX_U_14082025_1232_064.jpg, 00:00:00, 0.00 m
 Start node, manhole, reference: MH08, MANHOLE LOCATED ADJACENT TO LOADING BAY

Section Pictures - 14/08/2025 - MH08AX

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
12	Upstream	MH08AX	15580	.



MH08AX_U_14082025_1232_065.jpg, 00:00:36, 6.28 m
 Crack, longitudinal at joint at 3 o'clock



MH08AX_U_14082025_1232_066.jpg, 00:01:06, 11.17 m
 Settled deposits, coarse, 5% cross-sectional area loss

Section Pictures - 14/08/2025 - MH08AX

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
12	Upstream	MH08AX	15580	.



MH08AX_U_14082025_1232_067.jpg, 00:02:12, 23.79 m
 Settled deposits, coarse, 5% cross-sectional area loss



MH08AX_U_14082025_1232_068.jpg, 00:02:36, 26.78 m
 Attached deposits, encrustation from 9 o'clock to 11 o'clock, 5% cross-sectional area loss

Section Pictures - 14/08/2025 - MH08AX

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
12	Upstream	MH08AX	15580	.



MH08AX_U_14082025_1232_069.jpg, 00:04:59, 39.06 m
 Crack, longitudinal at joint at 3 o'clock



MH08AX_U_14082025_1232_070.jpg, 00:05:07, 39.43 m
 Settled deposits, coarse, 5% cross-sectional area loss

Section Pictures - 14/08/2025 - MH08AX

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
12	Upstream	MH08AX	15580	.

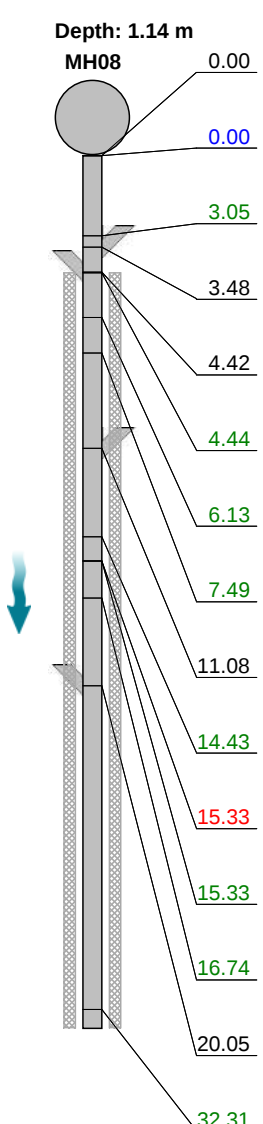


MH08AX_U_14082025_1232_071.jpg, 00:05:14, 40.22 m
 Settled deposits, coarse, 30% cross-sectional area loss

Section Inspection - 14/08/2025 - MH08X

Item No. 13	Insp. No. 1	Date 14/08/25	Time 12:44	Client's Job Ref 15580	Weather No Rain Or Snow	Pre Cleaned No	PLR MH08X
Operator LS		Vehicle RJ16HKB		Camera Push Rod	Preset Length 0.70 m	Criticality Grade Category C	Alternative ID MH089

Town or Village:	Blackburn	Inspection Direction:	Downstream	Upstream Node:	MH08
Road:	Myerscough Smithy Rd	Inspected Length:	36.75 m	Upstream Pipe Depth:	1.140 m
Location:	Property or buildings	Total Length:	50.00 m	Downstream Node:	MH10
Surface Type:	Asphalt Highway	Joint Length:	1.00 m	Downstream Pipe Depth:	
Use:	Surface water		Pipe Shape:	Circular	
Type of Pipe:	Gravity drain/sewer		Dia/Height:	225 mm	
Flow Control:	No flow control		Pipe Material:	Vitrified clay	
Year Constructed:	Not Specified		Lining Type:	No Lining	
Inspection Purpose:	Other purpose		Lining Material:	No Lining	
Comments:	None				
Recommendations:	PATCH				

Scale: 1:286	Position [m]	Code	Observation	Grade
Depth: 1.14 m 				
MH08	0.00	MH	Start node, manhole, reference: MH08: MANHOLE LOCATED ADJACENT TO LOADING BAY DOOR.	
	0.00	WL	Water level, 5% of the vertical dimension	
	3.05	DER	Settled deposits, coarse, 5% cross-sectional area loss	3
	3.48	JN	Junction at 9 o'clock, 225mm dia	
	4.42	JN	Junction at 1 o'clock, 150mm dia	
	4.44	S01 DES	Settled deposits, fine, 5% cross-sectional area loss, start	
	6.13	DEX	Settled deposits, other, 10% cross-sectional area loss: DEBRIS	3
	7.49	DER	Settled deposits, coarse, 10% cross-sectional area loss	3
	11.08	CN	Connection other than junction at 9 o'clock, 100mm dia	
	14.43	DEE	Attached deposits, encrustation from 3 o'clock to 5 o'clock, 5% cross-sectional area loss	3
	15.33	FLJ	Fracture, longitudinal at joint at 6 o'clock	3 / 2
	15.33	DER	Settled deposits, coarse, 5% cross-sectional area loss	3
	16.74	DER	Settled deposits, coarse, 5% cross-sectional area loss	3
	20.05	JN	Junction at 2 o'clock, 100mm dia	
	32.31	DEE	Attached deposits, encrustation from 4 o'clock to 8 o'clock, 5% cross-sectional area loss	3



MH - 0.00



MH - 0.00



DER - 3.05



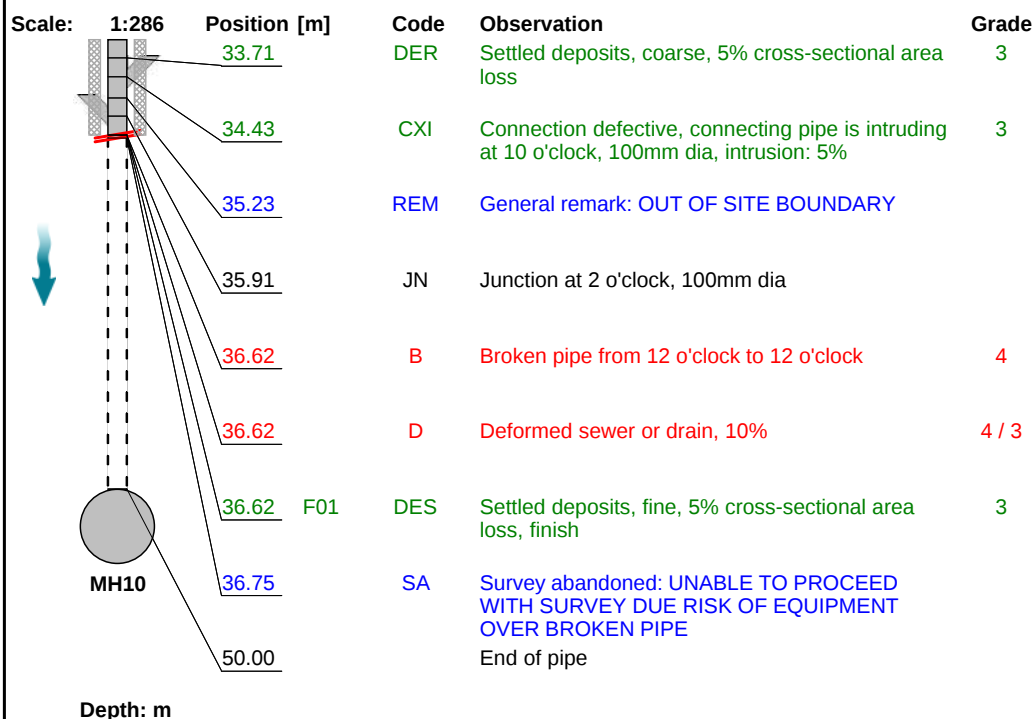
DES - 4.44



DEX - 6.13

Section Inspection - 14/08/2025 - MH08X

Item No. 13	Insp. No. 1	Date 14/08/25	Time 12:44	Client's Job Ref 15580	Weather No Rain Or Snow	Pre Cleaned No	PLR MH08X
Operator LS		Vehicle RJ16HKB		Camera Push Rod	Preset Length 0.70 m	Criticality Grade Category C	Alternative ID MH089



DER - 7.49



DEE - 14.43



FLJ - 15.33



DER - 16.74



DEE - 32.31



DER - 33.71



B - 36.62



D - 36.62



DES - 36.62

Section Inspection - 14/08/2025 - MH08X

Item No. 13	Insp. No. 1	Date 14/08/25	Time 12:44	Client's Job Ref 15580	Weather No Rain Or Snow	Pre Cleaned No	PLR MH08X
Operator LS		Vehicle RJ16HKB		Camera Push Rod	Preset Length 0.70 m	Criticality Grade Category C	Alternative ID MH089



SA - 36.75

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
3	160.0	4.0	200.0	4.0	12	5.0	1.7	87.0	4.0

Section Pictures - 14/08/2025 - MH08X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
13	Downstream	MH08X	15580	.



MH08X_D_14082025_1244_072.jpg, 00:00:00, 0.00 m
 Start node, manhole, reference: MH08, MANHOLE LOCATED ADJACENT TO LOADING BAY DOOR.



MH08X_D_14082025_1244_073.jpg, 00:00:00, 0.00 m
 Start node, manhole, reference: MH08, MANHOLE LOCATED ADJACENT TO LOADING BAY DOOR.

Section Pictures - 14/08/2025 - MH08X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
13	Downstream	MH08X	15580	.



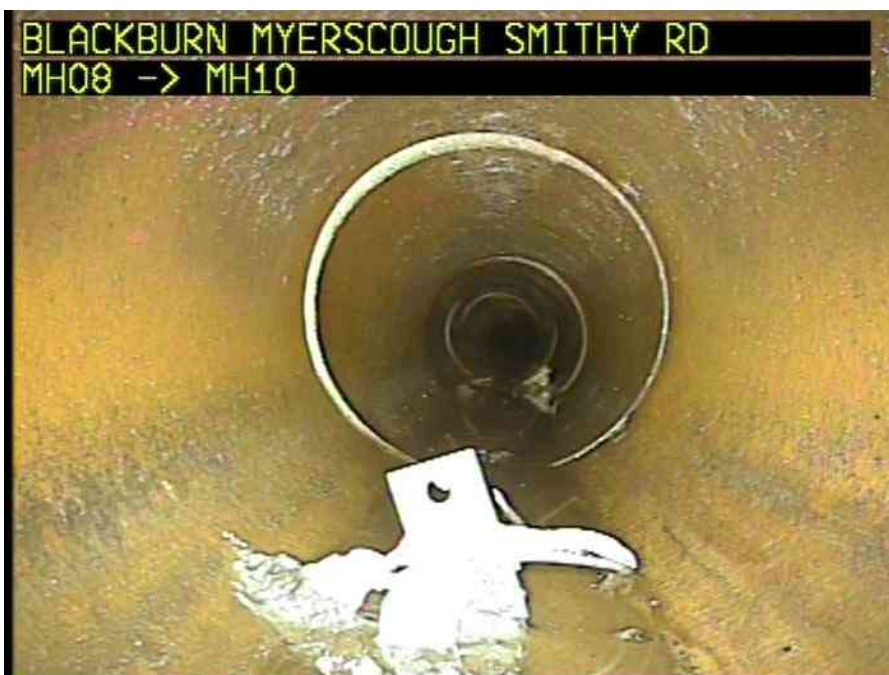
MH08X_D_14082025_1244_074.jpg, 00:00:31, 3.05 m
 Settled deposits, coarse, 5% cross-sectional area loss



MH08X_D_14082025_1244_075.jpg, 00:00:53, 4.44 m
 Settled deposits, fine, 5% cross-sectional area loss, start

Section Pictures - 14/08/2025 - MH08X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
13	Downstream	MH08X	15580	.



MH08X_D_14082025_1244_076.jpg, 00:01:07, 6.13 m
 Settled deposits, other, 10% cross-sectional area loss, DEBRIS



MH08X_D_14082025_1244_077.jpg, 00:01:24, 7.49 m
 Settled deposits, coarse, 10% cross-sectional area loss

Section Pictures - 14/08/2025 - MH08X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
13	Downstream	MH08X	15580	.



MH08X_D_14082025_1244_078.jpg, 00:03:33, 14.43 m
 Attached deposits, encrustation from 3 o'clock to 5 o'clock, 5% cross-sectional area loss



MH08X_D_14082025_1244_079.jpg, 00:03:47, 15.33 m
 Fracture, longitudinal at joint at 6 o'clock

Section Pictures - 14/08/2025 - MH08X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
13	Downstream	MH08X	15580	.



MH08X_D_14082025_1244_080.jpg, 00:04:27, 16.74 m
 Settled deposits, coarse, 5% cross-sectional area loss



MH08X_D_14082025_1244_081.jpg, 00:06:03, 32.31 m
 Attached deposits, encrustation from 4 o'clock to 8 o'clock, 5% cross-sectional area loss

Section Pictures - 14/08/2025 - MH08X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
13	Downstream	MH08X	15580	.



MH08X_D_14082025_1244_082.jpg, 00:06:15, 33.71 m
 Settled deposits, coarse, 5% cross-sectional area loss



MH08X_D_14082025_1244_083.jpg, 00:06:41, 36.62 m
 Broken pipe from 12 o'clock to 12 o'clock

Section Pictures - 14/08/2025 - MH08X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
13	Downstream	MH08X	15580	.



MH08X_D_14082025_1244_084.jpg, 00:06:45, 36.62 m
 Deformed sewer or drain, 10%



MH08X_D_14082025_1244_085.jpg, 00:06:47, 36.62 m
 Settled deposits, fine, 5% cross-sectional area loss, finish

Section Pictures - 14/08/2025 - MH08X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
13	Downstream	MH08X	15580	.



MH08X_D_14082025_1244_086.jpg, 00:06:57, 36.75 m
 Survey abandoned, UNABLE TO PROCEED WITH SURVEY DUE RISK OF EQUIPMENT
 OVER BROKEN PIPE

Appendix F

Surface Water Drainage Modelling Calculations

Simulation Settings

Rainfall Methodology	FEH-22	Skip Steady State	x	1 year (l/s)	4.0
Rainfall Events	Singular	Drain Down Time (mins)	240	30 year (l/s)	9.3
Summer CV	1.000	Additional Storage (m³/ha)	0.0	100 year (l/s)	11.8
Winter CV	1.000	Starting Level (m)		Check Discharge Volume	✓
Analysis Speed	Normal	Check Discharge Rate(s)	✓	100 year 360 minute (m³)	145

Storm Durations

15 | 30 | 60 | 120 | 180 | 240 | 360 | 480 | 600 | 720 | 960 | 1440

Return Period (years)	Climate Change (CC %)	Additional Area (A %)	Additional Flow (Q %)
1	0	0	0
30	40	0	0
100	50	0	0

Pre-development Discharge Rate

Site Makeup	Brownfield	Growth Factor 1 year	0.85
Brownfield Method	Greenfield	Growth Factor 30 year	1.95
Greenfield Method	FEH	Growth Factor 100 year	2.48
Positively Drained Area (ha)	0.415	Betterment (%)	0
SAAR (mm)	1039	QMed	4.3
Host	1	QBar	4.7
BFIHost	0.355	Q 1 year (l/s)	4.0
Region	1	Q 30 year (l/s)	9.3
QBar/QMed conversion factor	1.111	Q 100 year (l/s)	11.8

Pre-development Discharge Volume

Site Makeup	Brownfield	Return Period (years)	100
Brownfield Method	Greenfield	Climate Change (%)	0
Greenfield Method	FSR/FEH	Storm Duration (mins)	360
Positively Drained Area (ha)	0.415	Betterment (%)	0
Soil Index	5	PR	0.569
SPR	0.53	Runoff Volume (m³)	145
CWI	125.098		

Rainfall Methodology	FEH-22	Minimum Velocity (m/s)	1.00
Return Period (years)	1	Connection Type	Level Soffits
Additional Flow (%)	0	Minimum Backdrop Height (m)	0.200
CV	0.750	Preferred Cover Depth (m)	0.600
Time of Entry (mins)	5.00	Include Intermediate Ground	✓
Maximum Time of Concentration (mins)	30.00	Enforce best practice design rules	✓
Maximum Rainfall (mm/hr)	999.0		

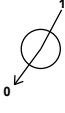
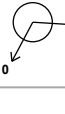
Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)	Invert Level (m)
SWMH1.0			73.120	1500	362283.352	431389.528	1.520	71.600
ATTENUATION TANK			73.120	1200	362288.704	431396.764	1.470	71.650
SWMH1.1	0.133	5.00	73.250	1200	362293.430	431406.514	1.010	72.240
SWMH1.2	0.075	5.00	73.450	1500	362282.536	431416.249	1.100	72.350
SWMH1.3	0.075	5.00	73.500	1500	362304.552	431446.111	0.900	72.600
SWMH1.4	0.036	5.00	73.700	1200	362315.383	431466.423	0.910	72.790
SWMH1.6	0.035	5.00	73.870	1200	362351.516	431464.170	0.820	73.050
SWMH1.7	0.035	5.00	73.870	1200	362375.634	431446.329	0.750	73.120

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Name	US Node	DS Node	Length (m)	ks (mm) / n	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)	T of C (mins)	Rain (mm/hr)
6.0	SWMH1.6	SWMH1.4	36.203	0.600	73.050	72.790	0.260	139.2	225	7.72	26.9
7.0	SWMH1.7	SWMH1.6	30.000	0.600	73.120	73.110	0.010	3000.0	225	7.18	27.9

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Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)	
SWMH1.0	362283.352	431389.528	73.120	1.520	1500		1	1.0	71.600	300
ATTENUATION TANK	362288.704	431396.764	73.120	1.470	1200		1	2.0	71.650	300
SWMH1.1	362293.430	431406.514	73.250	1.010	1200		1	3.0	72.240	300
SWMH1.2	362282.536	431416.249	73.450	1.100	1500		1	4.0	72.350	600
SWMH1.3	362304.552	431446.111	73.500	0.900	1500		1	5.0	72.600	300
SWMH1.4	362315.383	431466.423	73.700	0.910	1200		1	6.0	72.790	225
SWMH1.6	362351.516	431464.170	73.870	0.820	1200		1	7.0	73.110	225
SWMH1.7	362375.634	431446.329	73.870	0.750	1200		0	7.0	73.120	225

Node SWMH1.0 Online Hydro-Brake® Control

Flap Valve	x	Objective	(HE) Minimise upstream storage
Replaces Downstream Link	x	Sump Available	✓
Invert Level (m)	71.600	Product Number	CTL-SHE-0157-1180-1000-1180
Design Depth (m)	1.000	Min Outlet Diameter (m)	0.225
Design Flow (l/s)	11.8	Min Node Diameter (mm)	1500

Node ATTENUATION TANK Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	71.650
Side Inf Coefficient (m/hr)	0.00000	Porosity	0.95	Time to half empty (mins)	170

Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)
0.000	275.5	275.5	0.800	275.5	322.6	0.801	0.0	322.6

Results for 1 year Critical Storm Duration. Lowest mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute summer	SWMH1.0	148	71.758	0.158	8.6	0.2798	0.0000	OK
240 minute summer	ATTENUATION TANK	148	71.760	0.110	17.4	28.8384	0.0000	OK
15 minute summer	SWMH1.1	10	72.349	0.109	39.8	0.1238	0.0000	OK
15 minute summer	SWMH1.2	11	72.463	0.113	26.1	0.2004	0.0000	OK
15 minute summer	SWMH1.3	11	72.673	0.073	18.5	0.1286	0.0000	OK
15 minute summer	SWMH1.4	11	72.857	0.067	10.8	0.0755	0.0000	OK
15 minute summer	SWMH1.6	11	73.111	0.061	7.1	0.0687	0.0000	OK
15 minute summer	SWMH1.7	11	73.205	0.085	3.8	0.0964	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute summer	SWMH1.0	Hydro-Brake®		8.6				65.1
240 minute summer	ATTENUATION TANK	1.0	SWMH1.0	8.6	0.285	0.104	0.2746	
15 minute summer	SWMH1.1	2.0	ATTENUATION TANK	40.4	3.389	0.155	0.1389	
15 minute summer	SWMH1.2	3.0	SWMH1.1	25.9	1.217	0.269	0.3383	
15 minute summer	SWMH1.3	4.0	SWMH1.2	18.3	0.661	0.032	1.0439	
15 minute summer	SWMH1.4	5.0	SWMH1.3	10.6	0.861	0.106	0.2856	
15 minute summer	SWMH1.6	6.0	SWMH1.4	7.0	0.758	0.159	0.3343	
15 minute summer	SWMH1.7	7.0	SWMH1.6	3.4	0.352	0.371	0.2958	

Results for 30 year +40% CC Critical Storm Duration. Lowest mass balance: 99.92%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute summer	SWMH1.0	140	72.194	0.594	12.2	1.0488	0.0000	OK
180 minute summer	ATTENUATION TANK	140	72.195	0.545	76.7	143.2936	0.0000	SURCHARGED
15 minute summer	SWMH1.1	10	72.520	0.280	201.7	0.3169	0.0000	OK
15 minute summer	SWMH1.2	12	72.802	0.452	140.2	0.7993	0.0000	SURCHARGED
15 minute summer	SWMH1.3	11	72.815	0.215	100.0	0.3796	0.0000	OK
15 minute summer	SWMH1.4	11	72.969	0.179	58.4	0.2028	0.0000	OK
15 minute summer	SWMH1.6	11	73.222	0.172	38.8	0.1940	0.0000	OK
15 minute summer	SWMH1.7	11	73.316	0.196	20.0	0.2212	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute summer	SWMH1.0	Hydro-Brake®		11.8				219.0
180 minute summer	ATTENUATION TANK	1.0	SWMH1.0	12.2	0.287	0.148	0.6338	
15 minute summer	SWMH1.1	2.0	ATTENUATION TANK	202.5	3.984	0.777	0.6234	
15 minute summer	SWMH1.2	3.0	SWMH1.1	133.9	1.931	1.391	1.0144	
15 minute summer	SWMH1.3	4.0	SWMH1.2	97.4	0.822	0.173	5.8412	
15 minute summer	SWMH1.4	5.0	SWMH1.3	58.5	1.387	0.580	1.1270	
15 minute summer	SWMH1.6	6.0	SWMH1.4	38.8	1.168	0.882	1.2023	
15 minute summer	SWMH1.7	7.0	SWMH1.6	19.4	0.662	2.121	0.8569	

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute winter	SWMH1.0	118	72.444	0.844	12.3	1.4907	0.0000	OK
120 minute winter	ATTENUATION TANK	118	72.445	0.795	94.5	208.9935	0.0000	SURCHARGED
15 minute summer	SWMH1.1	12	72.804	0.564	249.0	0.6375	0.0000	SURCHARGED
15 minute summer	SWMH1.2	12	73.288	0.938	169.7	1.6569	0.0000	FLOOD RISK
15 minute summer	SWMH1.3	12	73.300	0.700	122.7	1.2372	0.0000	FLOOD RISK
15 minute summer	SWMH1.4	12	73.419	0.629	72.4	0.7119	0.0000	FLOOD RISK
15 minute summer	SWMH1.6	12	73.731	0.681	49.2	0.7705	0.0000	FLOOD RISK
15 minute summer	SWMH1.7	12	73.797	0.677	26.8	0.7659	0.0000	FLOOD RISK

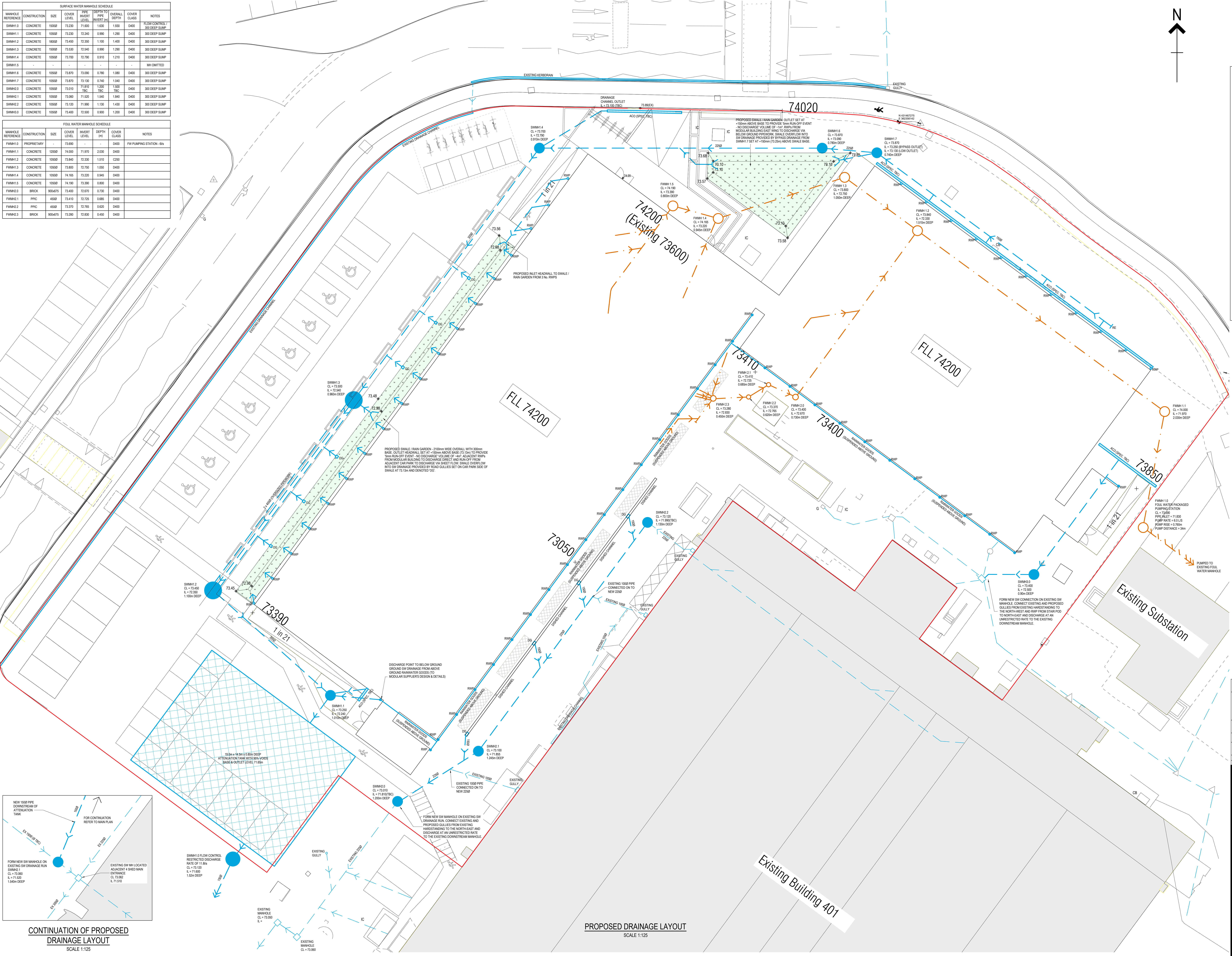
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Appendix G

Proposed Drainage Drawings

SURFACE WATER MANHOLE SCHEDULE									
MANHOLE REFERENCE	CONSTRUCTION	SIZE	COVER LEVEL	PPE INVERT LEVEL	DEPTH TO PPE INVERT (m)	OVERALL DEPTH	COVER CLASS	NOTES	
SWMH1.0	CONCRETE	1500	73.230	71.600	1.630	1.930	D400	FLOW CONTROL 300 DEEP SUMP	
SWMH1.1	CONCRETE	1500	73.230	72.400	0.830	1.200	D400	300 DEEP SUMP	
SWMH1.2	CONCRETE	1800	73.450	72.500	0.950	1.400	D400	300 DEEP SUMP	
SWMH1.3	CONCRETE	1500	73.530	72.540	0.990	1.200	D400	300 DEEP SUMP	
SWMH1.4	CONCRETE	1500	73.700	72.700	0.910	1.210	D400	300 DEEP SUMP	
SWMH1.5	-	-	-	-	-	-	D400	NH OMITTED	
SWMH1.6	CONCRETE	1500	73.870	73.000	0.870	1.080	D400	300 DEEP SUMP	
SWMH1.7	CONCRETE	1500	73.870	73.130	0.740	1.040	D400	300 DEEP SUMP	
SWMH2.0	CONCRETE	1500	73.910	73.000	0.910	1.200	D400	300 DEEP SUMP	
SWMH2.1	CONCRETE	1500	73.980	73.000	0.980	1.200	D400	300 DEEP SUMP	
SWMH2.2	CONCRETE	1500	73.120	71.990	1.130	1.430	D400	300 DEEP SUMP	
SWMH2.3	CONCRETE	1500	73.400	72.500	0.900	1.200	D400	300 DEEP SUMP	

FOUL WATER MANHOLE SCHEDULE									
MANHOLE REFERENCE	CONSTRUCTION	SIZE	COVER LEVEL	PPE INVERT LEVEL	DEPTH (m)	COVER CLASS	NOTES		
FWMH1.0	PROPRIETARY	-	73.990	-	-	D400	FW PUMPING STATION - 8m		
FWMH1.1	CONCRETE	1200	74.000	73.970	0.030	D400			
FWMH1.2	CONCRETE	1500	73.860	73.330	0.530	D300			
FWMH1.3	CONCRETE	1500	73.800	73.700	0.100	D400			
FWMH1.4	CONCRETE	1500	74.190	73.220	0.970	D400			
FWMH1.5	CONCRETE	1500	74.190	73.390	0.800	D400			
FWMH2.0	BRICK	900x75	73.400	72.670	0.730	D400			
FWMH2.1	PPC	400	73.410	72.725	0.685	D400			
FWMH2.2	PPC	400	73.370	72.765	0.605	D400			
FWMH2.3	BRICK	900x75	73.280	72.830	0.450	D400			



GENERAL NOTES

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT GEOTECHNICAL, MECHANICAL & ELECTRICAL ENGINEERING CONTRACT DOCUMENTS, WHERE TWO-REPLY AND TWO-FILE FILES ARE SUPPLIED. THESE ARE FOR COLLABORATION WITH OTHER CONSULTANTS' INFORMATION AND SHOULD NOT BE USED FOR CONSTRUCTION PURPOSES BY THE CONTRACTOR, SUB-CONTRACTORS OR CLIENT. ONLY THE INFORMATION PROVIDED IN THIS COPY OF THE DRAWING IS TO BE RELIED UPON FOR ACCURACY.
- ALL LEVELS ARE SHOWN IN METRES AND RELATE TO ORDNANCE DATUM.

DRAINAGE KEY	
EXISTING XXXX	EXISTING FOUL WATER DRAIN (PIPE DIAMETER & GRADIENT)
XXXX XXXX	PROPOSED FOUL WATER DRAIN (PIPE DIAMETER & GRADIENT)
EXISTING XXXX	EXISTING SURFACE WATER DRAIN (PIPE DIAMETER & GRADIENT)
XXXX XXXX	PROPOSED SURFACE WATER DRAIN (PIPE DIAMETER & GRADIENT)
EXISTING XXXX	EXISTING COMBINED WATER DRAIN (PIPE DIAMETER & GRADIENT)
XXXX XXXX	PROPOSED COMBINED WATER DRAIN (PIPE DIAMETER & GRADIENT)
○	FOUL WATER MANHOLE
●	SURFACE WATER MANHOLE
●	COMBINED WATER MANHOLE
●	BACKDROP MANHOLE
RE	RODDING EYE
RWP/AG	RAINWATER PIPE & ACCESS GULLY
RB	REST BEND
SB	STUB STACK TO REST BEND FOR SOIL OR SOIL & VENT PIPE (ARCHITECT / M&E ENGINEERS TO CONFIRM)
FG	INTERNAL FLOOR GULLY
YG	EXTERNAL YARD GULLY
RG	ROAD GULLY
DG	GULLY WITH DISHED CHANNEL GRATING
PG	PAVED AREA GULLY - HEPWORTH CLAY SDG01
ACD XXX	DRAINAGE CHANNEL - ACO REF. XXX
ATTEN TANK / SOAKAWAY - REFER TO DETAILS	
TVO	TANK VENT OUTLET
VO	VENT OUTLET TO ATMOSPHERE
—	RISING MAIN
—	HEADWALL (INLET / OUTLET TO SWALE)

DRAWING ISSUED FOR DISCHARGE OF PLANNING CONDITIONS

P6	VOLUME & SIZE OF ATTENUATION TANK INCREASED. ZERO DISCHARGE VOLUME REMOVED FROM ATTENUATION TANK. MH SCHEDULE UPDATED. OTHER REVISIONS ADDED.	06.08.26	GLW
P5	DISHED CHANNEL & GULLIES ADDED OUTSIDE MODULAR BUILDING. FOUL DRAINAGE LAYOUT UPDATED AND MANHOLE REFERENCES ADDED. HARVESTING AREA. CONTINUATION OF PROPOSED DRAINAGE LAYOUT TO FINAL CONNECTION ADDED. MANHOLE SCHEDULES ADDED. DRAINAGE CHANNEL ADDED TO SOUTHERN RAMP. VOLUME OF ATTENUATION TANK INCREASED TO 20.0m³.	14.05.26	WB
P4	SW DRAINAGE UPDATED WITH L14'S COMMENTS. SWALES / RAMP (SHOULDERS ADDED) AND ATTENUATION TANK (NOW PART SOAKAWAY) UPDATED FOR 5m³ RUN-OFF EVENT. ZERO DISCHARGE.	11.02.26	GLW
P3	ATTENUATION TANK SIZE UPDATED AND RESTRICTED DISCHARGE RATE ADDED TO SWMH1.0 FLOW CONTROL MANHOLE.	11.11.25	GLW
P2	SW DRAINAGE REVISED TO PROVIDE SUPPLEMENTARY ABOVE GROUND RAINWATER GOODS TO SOUTH FACING ELEVATIONS AND CONNECTION INTO COMMON ATTENUATION TANK. MINOR UPDATES TO PW DRAINAGE.	17.10.25	GLW
P1	PRELIMINARY ISSUE	03.10.25	GLW
REV	AMENDMENTS	DATE	INTS

PRELIMINARY

Sleater & Watson
Consulting Civil & Structural Engineers.
Ribble House, Meanygate,
Bamber Bridge, Preston PR9 6UP
Telephone: 01772 821044
E-mail: admin@sleaterwatson.co.uk
Website: www.sleaterwatson.co.uk

BAE SYSTEMS

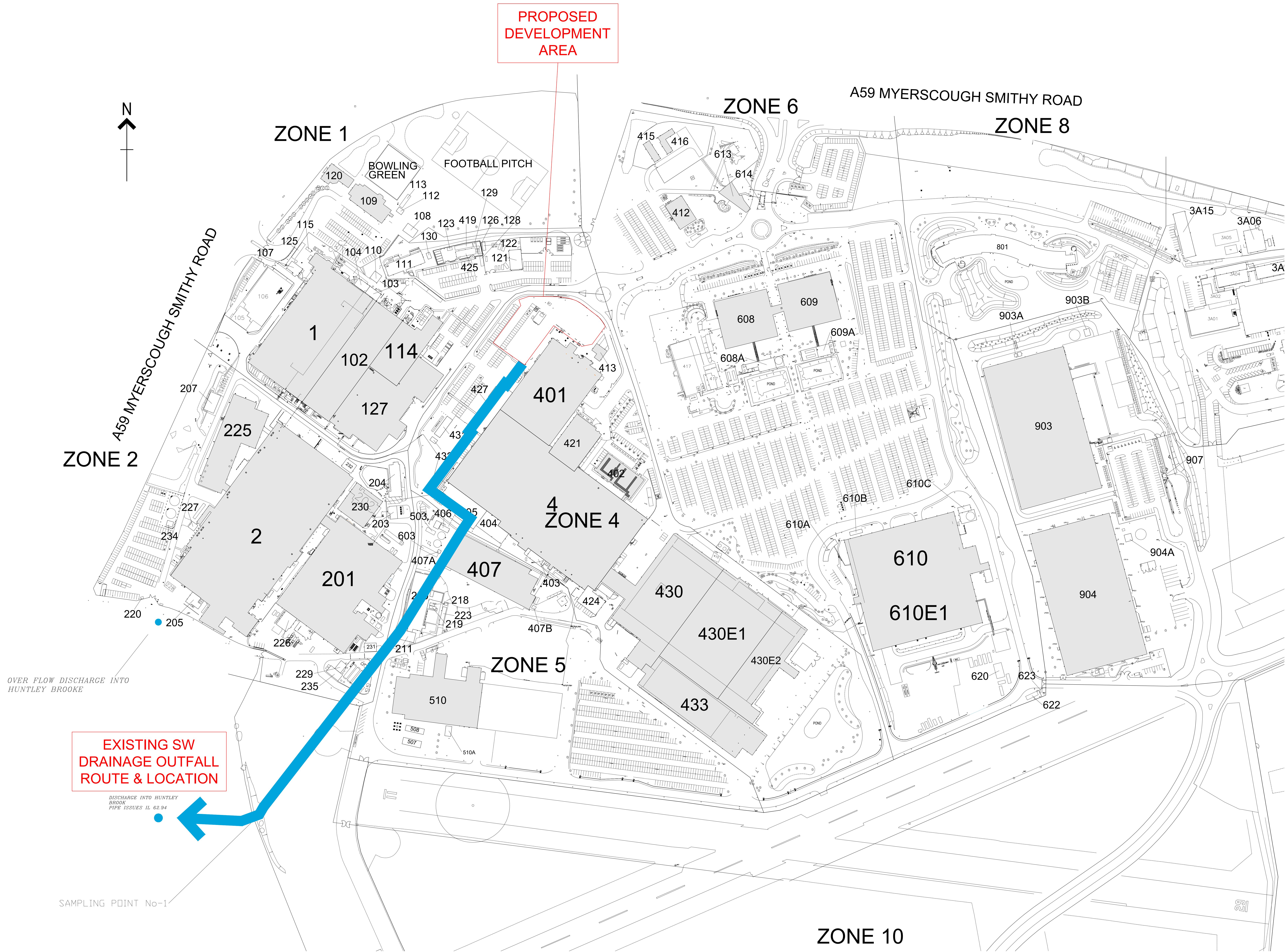
MODULAR BUILDING,
(CEB REPLACEMENT),
BAE SYSTEMS, SAMLESBURY.

PROPOSED DRAINAGE LAYOUT

DRAWN	CHECKED	DATE	PROJECT NO.	SCALE
SAW	GLW	OCT. 2025	225011	1:125
CEB-SAW-XX-00-52-DR-C-5201-S0-P6				

GENERAL NOTES

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT SLEATER & WATSON LLP DRAWINGS AND SPECIFICATIONS ALONG WITH ALL ARCHITECTURAL AND MECHANICAL & ELECTRICAL ENGINEERING CONTRACT DOCUMENTS.



EXISTING SITE PLAN WITH SW DRAINAGE OUTFALL ROUTE & LOCATION

SCALE 1:1250

P1 PRELIMINARY ISSUE FOR PLANNING PURPOSES		11/02/20		GJW
REV AMENDMENTS		DATE		IN
STATUS PRELIMINARY				
Sleater & Watson Consulting Civil & Structural Engineers. Ribble House, Meanygate, Bamber Bridge, Preston, PR5 6UP Telephone: 01772 821044 E-mail: admin@sleaterwatson.co.uk Website: www.sleaterwatson.co.uk				
CLIENT BAE SYSTEMS				
PROJECT MODULAR BUILDING, (CEB REPLACEMENT), BAE SYSTEMS, SAMLESBURY.				
TITLE EXISTING SITE PLAN WITH SW DRAINAGE OUTFALL ROUTE & LOCATION.				
DRAWN GJW	CHECKED SAW	DATE FEB. 2020	PROJECT No. 215/011	SCALE @A0 1:1250
ORG No. CEB-SAW-XX-XX-52-D-C-5210-S0-P1				



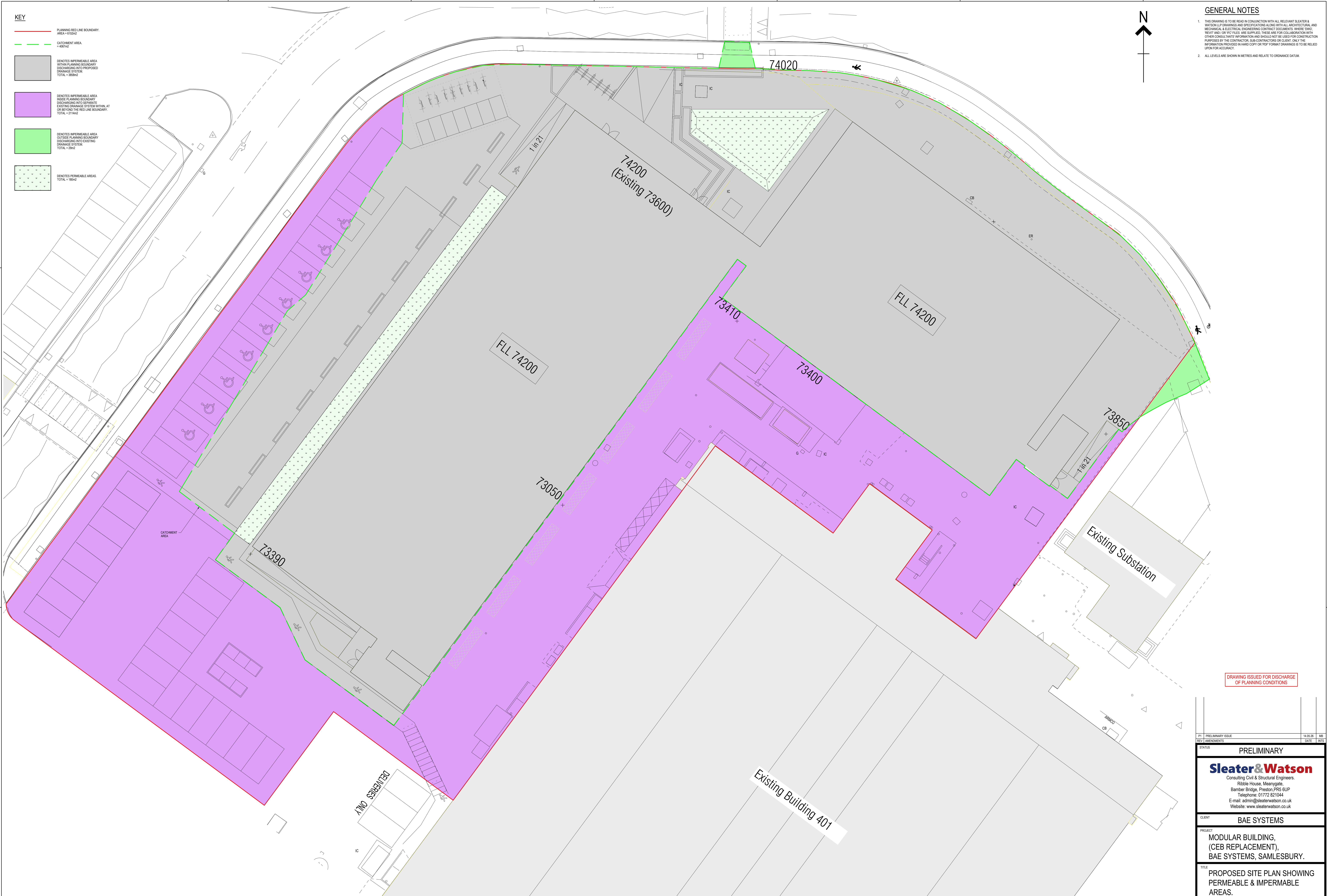
KEY

- PLANNING RED LINE BOUNDARY
AREA = 6152H2
- CATCHMENT AREA
= 402H2
- DENOTES IMPERMEABLE AREA
WITHIN PLANNING BOUNDARY
DISCHARGING INTO PROPOSED
DRAINAGE SYSTEM
TOTAL = 305H2
- DENOTES IMPERMEABLE AREA
INSIDE PLANNING BOUNDARY
DISCHARGING INTO SEPARATE
EXISTING DRAINAGE SYSTEM WITHIN AT
OR BEYOND THE RED LINE BOUNDARY.
TOTAL = 211H2
- DENOTES IMPERMEABLE AREA
OUTSIDE PLANNING BOUNDARY
DISCHARGING INTO EXISTING
DRAINAGE SYSTEM
TOTAL = 25H2
- DENOTES PERMEABLE AREAS
TOTAL = 180H2

GENERAL NOTES

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- ALL LEVELS ARE SHOWN IN METRES AND RELATE TO ORDNANCE DATUM.

N

DRAWING ISSUED FOR DISCHARGE
OF PLANNING CONDITIONS

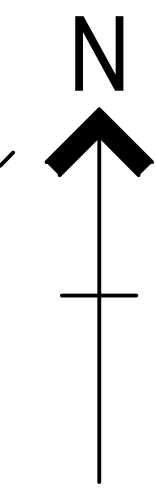
P1	PRELIMINARY ISSUE	14.05.22	MB
REV	AMENDMENTS	DATE	NTS
STATUS			
PRELIMINARY			
Sleater & Watson			
Consulting Civil & Structural Engineers. Ribble House, Meanygate, Bamber Bridge, Preston PR5 6UP Telephone: 01772 821044 E-mail: admin@sleaterwatson.co.uk Website: www.sleaterwatson.co.uk			
CLIENT			
BAE SYSTEMS			
PROJECT			
MODULAR BUILDING, (CEB REPLACEMENT), BAE SYSTEMS, SAMLESBURY.			
TITLE			
PROPOSED SITE PLAN SHOWING PERMEABLE & IMPERMEABLE AREAS.			
DRAWN	CHECKED	DATE	PROJECT No.
MB	GJW	MAY 2022	225011
SCALE	SCALE	SCALE	SCALE
1:125	1:125	1:125	1:125
ORG No.			
CEB-SAW-XX-00-52-DR-C-5212-S0-P1			

PLAN AS PROPOSED SHOWING IMPERMEABLE / PERMEABLE AREAS DISCHARGING INTO SURFACE WATER SYSTEM

SCALE 1:125



KEY
DIRECTION
OF SURFACE
WATER RUN OFF



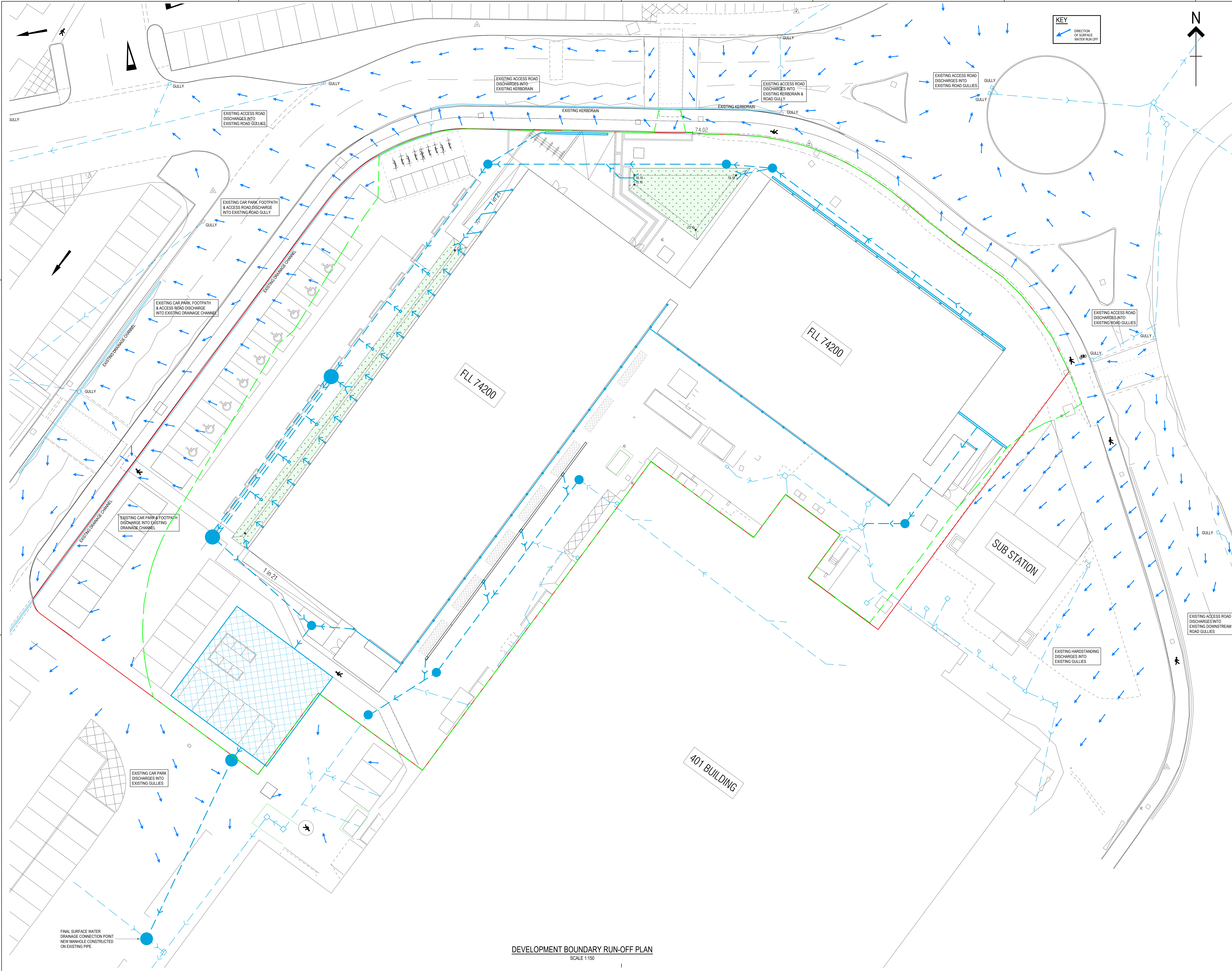
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DRAWING ISSUED FOR DISCHARGE
OF PLANNING CONDITIONS

PI	PRELIMINARY ISSUE	14.05.20	MB
REV	AMENDMENTS	DATE	INTS
STATUS			
PRELIMINARY			
Sleater & Watson Consulting Civil & Structural Engineers. Ribble House, Meanygate, Bamber Bridge, Preston, PR5 6UP Telephone: 01772 821044 E-mail: admin@sleaterwatson.co.uk Website: www.sleaterwatson.co.uk			
CLIENT			
BAE SYSTEMS			
PROJECT			
MODULAR BUILDING, (CEB REPLACEMENT), BAE SYSTEMS, SAMLESBURY.			
TITLE			
SURFACE WATER EXCEEDANCE FLOW ROUTES.			
DRAWN	CHECKED	DATE	PROJECT No.
MB	GJW	MAY 2025	225011
SCALE	40		
	1:125		
DRG No.			
CEB-SAW-XX-00-52-DR-C-5213-S0-P1			

SURFACE WATER EXCEEDANCE FLOW ROUTES
SCALE 1:125



GENERAL NOTES

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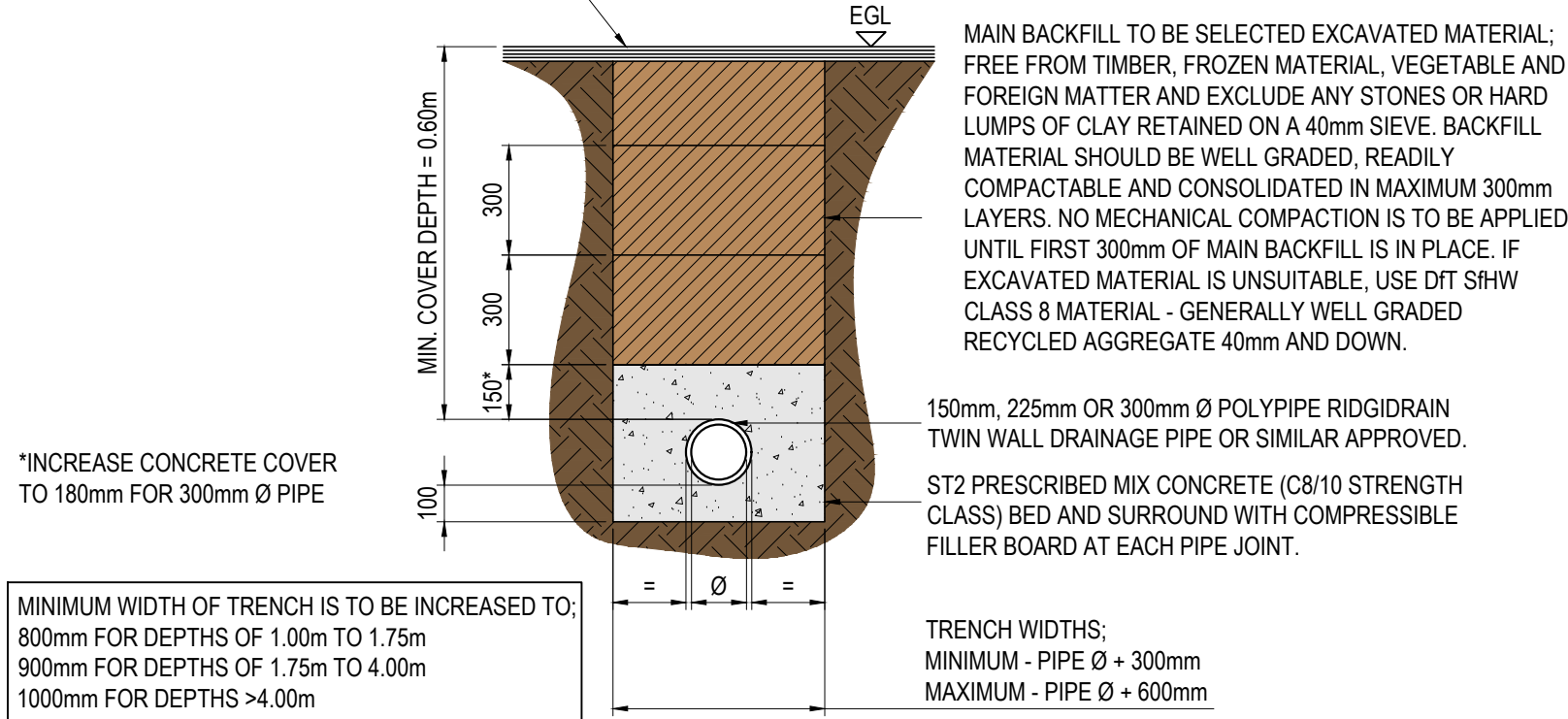
DRAINAGE KEY	
XXXX 100X	EXISTING SURFACE WATER DRAIN (PIPE DIAMETER)
XXXX 100X	PROPOSED SURFACE WATER DRAIN (PIPE DIAMETER & GRADIENT)

DRAWING ISSUED FOR DISCHARGE OF PLANNING CONDITIONS

P1	PRELIMINARY ISSUE	14.05.23	MB
REV	AMENDMENTS	DATE	INTS
STATUS			
PRELIMINARY			
Sleater & Watson Consulting Civil & Structural Engineers. Ribble House, Meanygate, Bamber Bridge, Preston, PR5 6UP Telephone: 01772 821044 E-mail: admin@sleaterwatson.co.uk Website: www.sleaterwatson.co.uk			
CLIENT			
BAE SYSTEMS			
PROJECT			
MODULAR BUILDING, (CEB REPLACEMENT), BAE SYSTEMS, SAMLESBURY.			
TITLE			
DEVELOPMENT BOUNDARY RUN-OFF PLAN.			
DRAWN	CHECKED	DATE	PROJECT No.
MB	GJW	MAY 2023	225011
SCALE	SCALE		
1:150	1:150		
DRG No.			
CEB-SAW-XX-00-52-DR-C-5214-S0-P1			

DEVELOPMENT BOUNDARY RUN-OFF PLAN
SCALE 1:150

SURFACE TO BE REINSTATED AS PER EXISTING FINISHES OR TO ARCHITECTS / ENGINEER'S SPECIFICATION FOR PROPOSED EXTERNAL WORKS.



TYPE Z - TWIN WALL PLASTIC PIPE TRENCH & BEDDING DETAIL FOR PAVED/TRAFFICKED AREAS WITH LESS THAN 1.20m COVER DEPTH TO PIPE

SCALE 1:20

NOTE! CONTRACTOR IS TO NOTIFY SLEATER & WATSON IF TRENCH FORMATION HAS LITTLE BEARING STRENGTH (SOFT GROUND, RUNNING SAND, ETC.) AND AN IMPROVED BEDDING CONSTRUCTION SHALL BE SPECIFIED.

MIN. COVER DEPTH:
0.90m FOR SOFT LANDSCAPED AREAS
1.20m FOR PAVED/TRAFFICKED AREAS

MAX. COVER DEPTH:
FOR 150mm Ø PIPES = 5.50m
FOR 225mm Ø PIPES = 5.00m
FOR 300mm Ø PIPES = 4.00m

*INCREASE LOWER BEDDING TO 150mm WHERE FORMATION LEVEL CONSISTS OF ROCK, BOULDERS, LARGE FLINTS, STONES OR OTHER IRREGULAR HARD SPOTS

MINIMUM WIDTH OF TRENCH IS TO BE INCREASED TO:
800mm FOR DEPTHS OF 1.00m TO 1.75m
900mm FOR DEPTHS OF 1.75m TO 4.00m
1000mm FOR DEPTHS >4.00m

MAIN BACKFILL TO BE SELECTED EXCAVATED MATERIAL; FREE FROM TIMBER, FROZEN MATERIAL, VEGETABLE AND FOREIGN MATTER AND EXCLUDE ANY STONES OR HARD LUMPS OF CLAY RETAINED ON A 40mm SIEVE. BACKFILL MATERIAL SHOULD BE WELL GRADED, READILY COMPACTABLE AND CONSOLIDATED IN MAXIMUM 300mm LAYERS. NO MECHANICAL COMPACTION IS TO BE APPLIED UNTIL FIRST 300mm OF MAIN BACKFILL IS IN PLACE. IF EXCAVATED MATERIAL IS UNSUITABLE, USE DIT SHW CLASS 8 MATERIAL - GENERALLY WELL GRADED RECYCLED AGGREGATE 40mm AND DOWN.

UPPER BEDDING, SIDE FILL AND INITIAL BACKFILL SPECIFICATION AS PER MAIN BACKFILL; PLACED AND COMPACTED BY HAND.

150mm, 225mm OR 300mm Ø HEPWORTH VITRIFIED CLAY SLEEVED DRAINAGE PIPE.

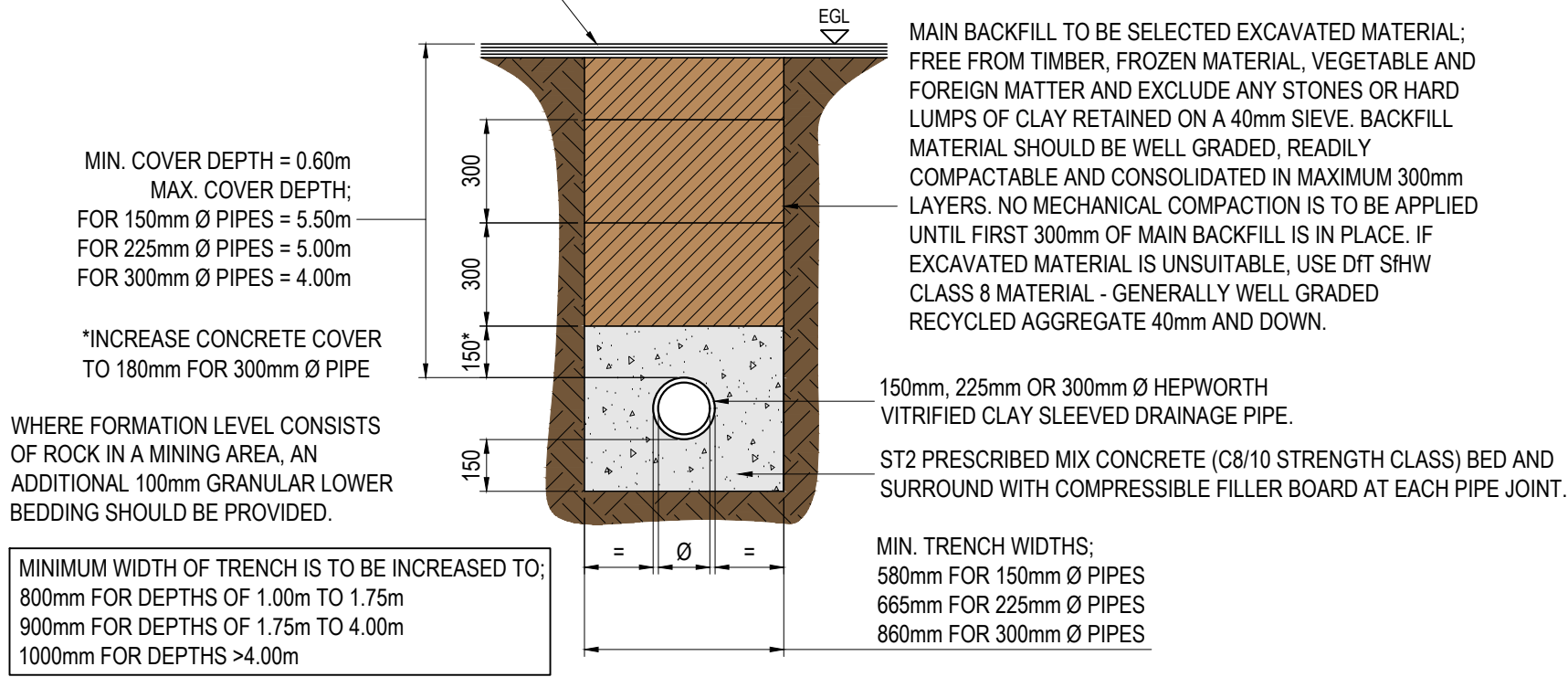
LOWER BEDDING - SINGLE SIZE OR GRADED AGGREGATE FROM 5mm UP TO A MAXIMUM 14mm FOR 150mm Ø PIPES AND 20mm FOR 150mm TO 600mm Ø PIPES.

MIN. TRENCH WIDTHS:
580mm FOR 150mm Ø PIPES
665mm FOR 225mm Ø PIPES
860mm FOR 300mm Ø PIPES

TYPE N - CLAY PIPE TRENCH & BEDDING DETAIL FOR SOFT LANDSCAPED AREAS AND PAVED/TRAFFICKED AREAS WITH 1.20m+ COVER DEPTH TO PIPE

SCALE 1:20

SURFACE TO BE REINSTATED AS PER EXISTING FINISHES OR TO ARCHITECTS / ENGINEER'S SPECIFICATION FOR PROPOSED EXTERNAL WORKS.

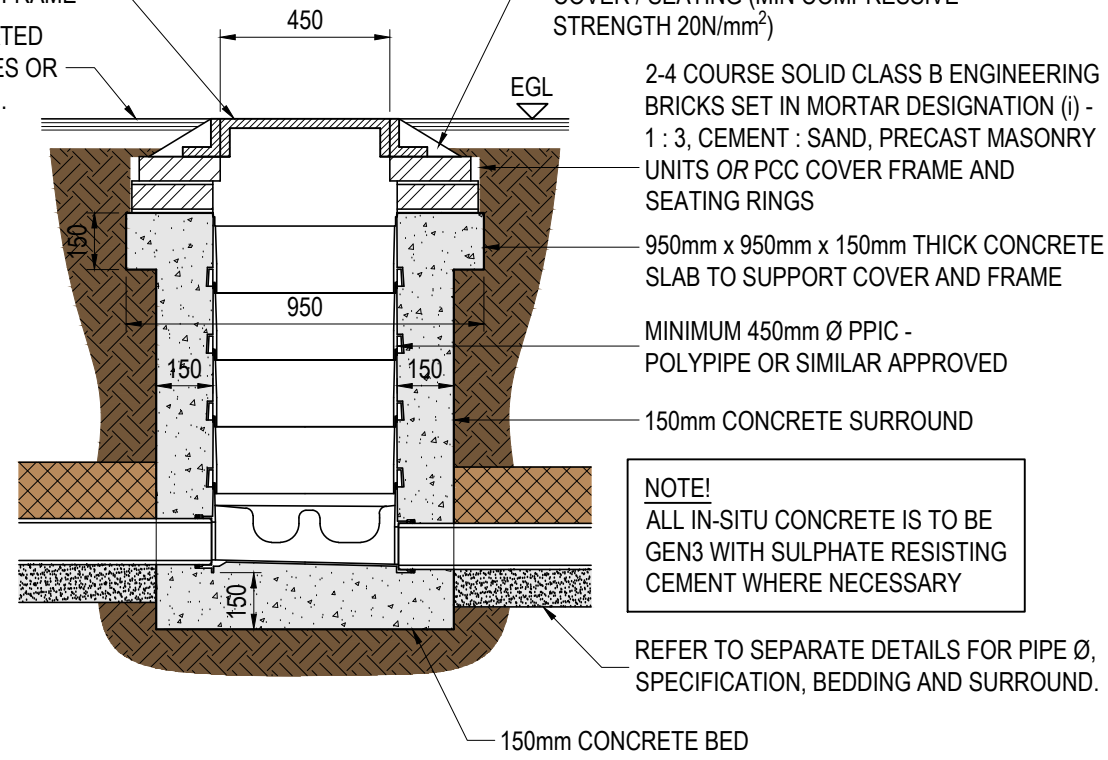


TYPE Z - CLAY PIPE TRENCH & BEDDING DETAIL FOR PAVED & TRAFFICKED AREAS WITH LESS THAN 1.20m COVER DEPTH TO PIPE

SCALE 1:20

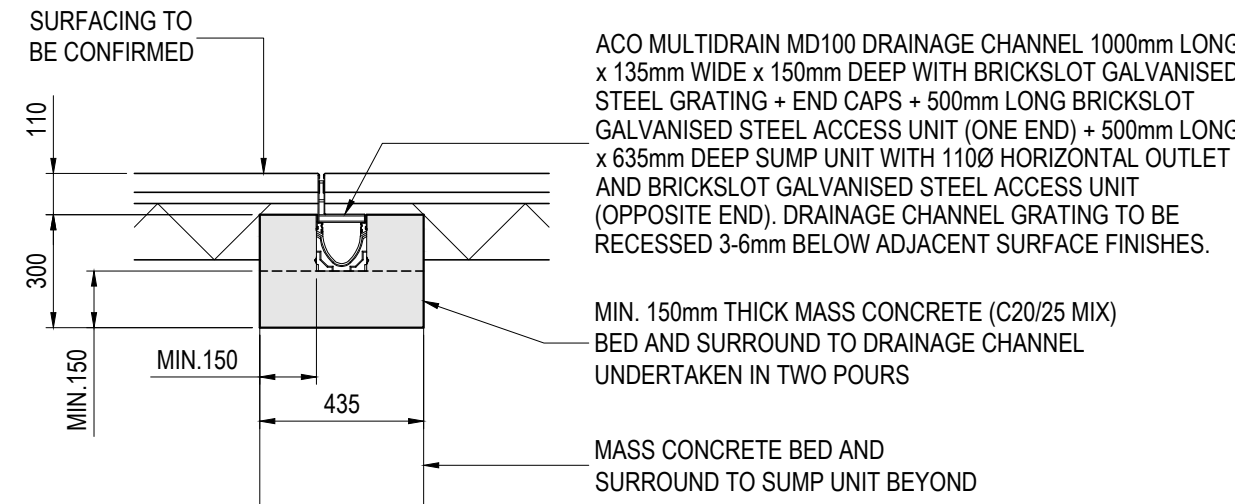
WREKIN OR SIMILAR APPROVED 450 x 450 D400 CLASS DUCTILE IRON MANHOLE COVER & FRAME

SURFACE TO BE REINSTATED AS PER EXISTING FINISHES OR TO ARCHITECT'S DETAILS.



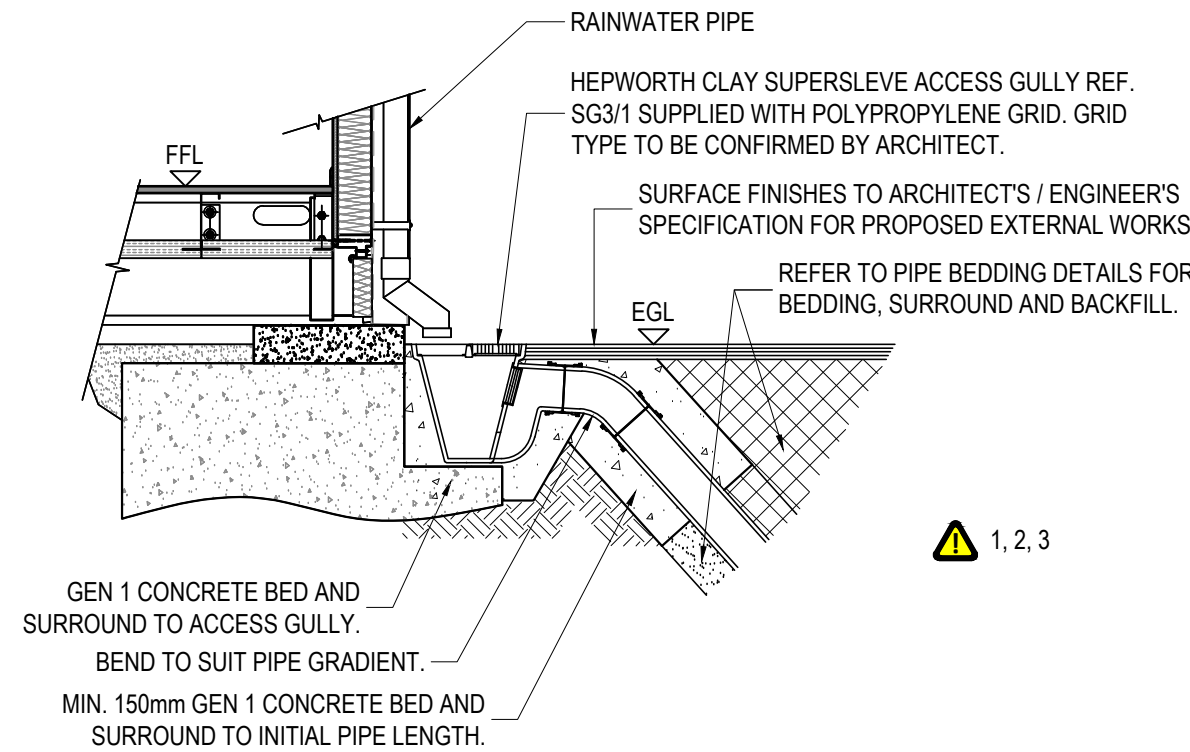
TYPICAL SECTION THROUGH POLYPROPYLENE INSPECTION CHAMBER UP TO 1.0m DEEP

SCALE 1:20



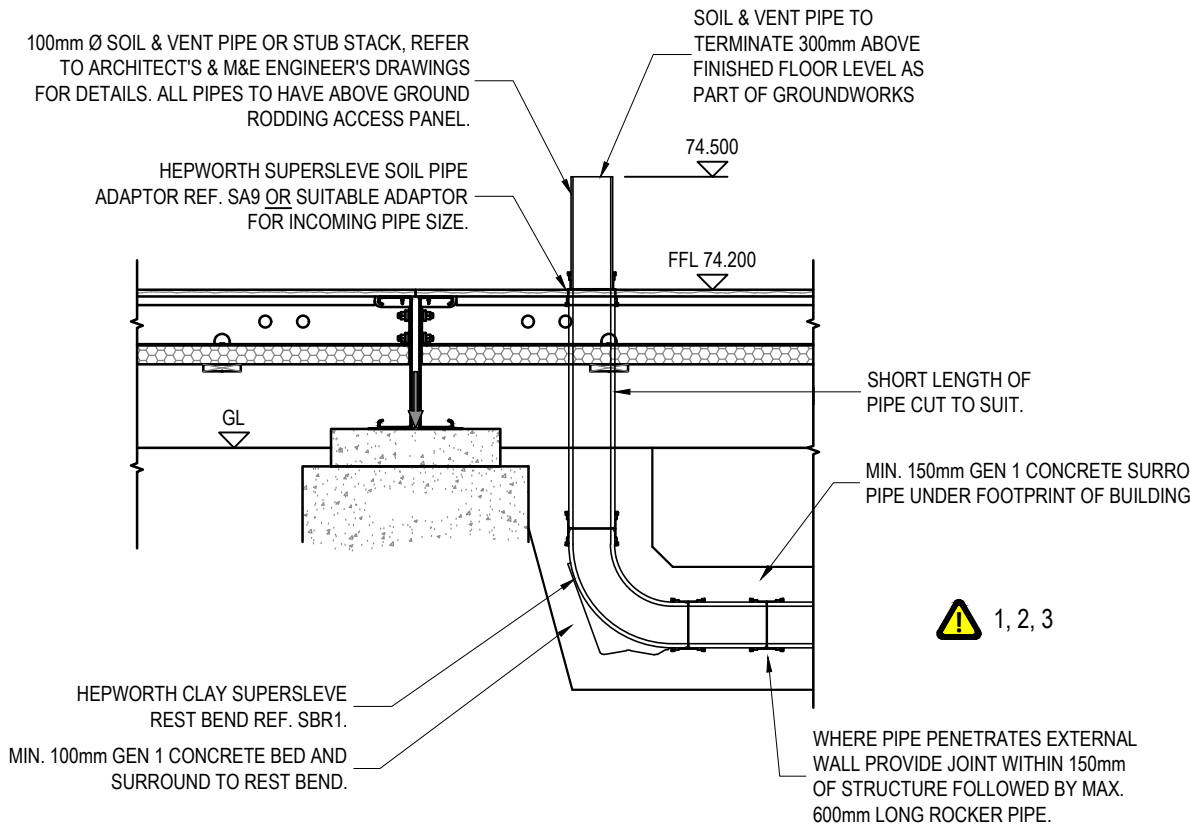
TYPICAL SECTION THROUGH BRICKSLOT DRAINAGE CHANNEL TO PEDESTRIAN AREAS

SCALE 1:20



TYPICAL ACCESS GULLY DETAIL (100mm Ø OUTLET)

SCALE 1:20



TYPICAL SOIL & VENT OR STUB STACK TO 100mm Ø REST BEND CONNECTION DETAIL

SCALE 1:20

GENERAL NOTES

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- THE MATERIALS AND WORKMANSHIP OF ALL RELEVANT OPERATIONS SHALL COMPLY WITH THE RECOMMENDATIONS SET IN CURRENT BRITISH STANDARDS AND CODES OF PRACTICE.
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF ALL THE TEMPORARY WORKS, PROPPING AND SHORING.
- THE CONTRACTOR SHALL INFORM SLEATER AND WATSON IMMEDIATELY OF ANY VARIATIONS IN THE EXISTING CONSTRUCTION THAN THAT NOTED ON THE DRAWINGS.
- ALL WORK IS TO COMPLY WITH ALL RELEVANT HEALTH AND SAFETY LEGISLATION AND REGULATIONS.
- ALL DIMENSIONS ARE SHOWN IN MILLIMETRES UNLESS NOTED OTHERWISE. DIMENSIONS MUST NOT BE SCALED. USE ANNOTATED DIMENSIONS ONLY.
- ALL DIMENSIONS ARE TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
- ALL LEVELS ARE SHOWN IN METRES AND RELATE TO ORDNANCE DATUM.
- DRAINAGE DESIGN AND CONSTRUCTION TO BE IN ACCORDANCE WITH: BUILDING REGULATIONS APPROVED DOCUMENT H, BS EN 12056 - GRAVITY DRAINAGE SYSTEMS INSIDE BUILDINGS, BS EN 752 - DRAIN AND SEWER SYSTEMS OUTSIDE BUILDINGS, BS EN 1810 - CONSTRUCTION AND TESTING OF DRAINS AND SEWERS, SEWERS FOR ADOPTION - 7TH EDITION.
- THE CONTRACTOR IS TO CHECK THE CONDITION OF ALL EXISTING DRAINAGE DETAILS TO CONFIRM THEY ARE IN GOOD WORKING ORDER AND THE LEVELS SHOWN ON THIS DRAWING ARE ACCURATE PRIOR TO COMMENCEMENT OF ANY WORKS OR DURING WEEK ONE OF THE CONTRACT PROGRAMME. SLEATER & WATSON LLP ENGINEER TO BE NOTIFIED OF ANY DISCREPANCIES.
- ALL ARISING THAT ARE TO BE REMOVED FROM SITE SHALL BE DISPOSED OF AT A LICENSED WASTE DISPOSAL SITE. WHERE NECESSARY TEST CERTIFICATES FOR ARISING CONTAINING CONTAMINANTS SHOULD BE SUBMITTED TO THE LICENSED WASTE DISPOSAL SITE FOR APPROVAL AND ACCEPTANCE AS SOON AS IS PRACTICALLY POSSIBLE.
- ALL PROPOSED DRAINAGE DETAILS ARE TO BE CONSTRUCTED TO THE COMPLETE SATISFACTION OF THE PROJECT'S BUILDING CONTROL OFFICER.
- ALL SURFACE WATER, INTERNAL BELOW GROUND DRAINAGE AND EXTERNAL DRAINAGE UP TO AND INCLUDING 300mm DIAMETER IS TO BE POLYPIPE RIDGDRAIN TWIN WALL HDPE PIPEWORK OR SIMILAR APPROVED IN MAXIMUM 3.0m LONG LENGTHS.
- ALL POLYPIPE BELOW GROUND DRAINAGE IS TO BE CONNECTED VIA POLYPIPE DOUBLE SOCKET COUPLINGS WITH EPDM SEALS REFERENCED - CRD100-SRD100 FOR 100Ø, CRD150-SRD150 FOR 150Ø, CRD225-SRD225 FOR 225Ø AND CRD300-SRD300 FOR 300Ø.
- ALL SURFACE WATER EXTERNAL BELOW GROUND DRAINAGE WITH COVER UP TO 1.20m IS TO BE BEDDED AS TYPE Z - ST2 PRESCRIBED MIX CONCRETE BED AND SURROUND WITH COMPRESSIBLE FILLER BOARD AT PIPE JOINTS.
- ALL SURFACE WATER EXTERNAL BELOW GROUND DRAINAGE WITH COVER EXCEEDING 1.20m IS TO BE BEDDED AS TYPE S.
- ALL FOUL WATER, INTERNAL BELOW GROUND DRAINAGE AND EXTERNAL DRAINAGE UP TO AND INCLUDING 300mm DIAMETER IS TO BE HEPWORTH SUPER-SLEEVE VITRIFIED CLAY PIPEWORK OR SIMILAR APPROVED TO BS EN 295-1.
- EXCAVATIONS, BACKFILLING AND REINSTATEMENT WITHIN EXISTING PUBLIC AND PRIVATE HIGHWAYS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE DIT AND HAUC NEW ROADS AND STREET WORKS ACT 1991 - SPECIFICATION FOR THE REINSTATEMENT OF OPENINGS IN HIGHWAYS.
- ALL DRAINS ARE TO BE LAID TO THE GRADIENTS INDICATED ON PLAN. IN THE ABSENCE OF THIS INFORMATION THE FOLLOWING MINIMUM GRADIENTS CAN BE ADOPTED:
SURFACE WATER 150mm Ø = 1 IN 150
SURFACE WATER 225mm Ø = 1 IN 200
- ALL CONCRETE MANHOLES ARE TO BE FORMED USING STANTON BONNA CONCRETE RINGS, COVER SLABS AND REDUCING SLABS (WHERE APPLICABLE) OR SIMILAR APPROVED TO BS EN 1917 AND BS 5911-3. FOR CONSTRUCTION AND SIZES REFER TO DETAILS DRAWING.
- ALL MANHOLE COVERS ARE TO BE IN ACCORDANCE WITH BS EN 124 BY CLARK DRAIN TO THE LOAD CLASS NOTED WITHIN THE MANHOLE SCHEDULE AND SIZED IN ACCORDANCE WITH SLEATER & WATSON'S DETAIL DRAWINGS.
- ALL MANHOLE COVERS ARE TO BE ORIENTATED TO SUIT EXTERNAL FEATURES, I.E. BUILDINGS, KERB LINES, BLOCK PAVING (IF PRESENT), ETC.
- ALL DRAINAGE CHANNELS, ASSOCIATED GULLY / SUMP UNITS AND GRATINGS ARE TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S DETAILS. DRAINAGE CHANNEL BED AND SURROUND SHALL BE CONSTRUCTED IN ACCORDANCE WITH SLEATER & WATSON'S DETAIL DRAWINGS.
- THE ATTENUATION TANK IS TO BE WRAPPED IN A HIGH DENSITY POLYETHYLENE MEMBRANE, VISQUEEN GX GEOMEMBRANE x 1.0mm THICK MEMBRANE IS TO BE PROTECTED ON THE OUTSIDE BY A VISQUEEN GEOTEXTILE PROTECTION BLANKET OR VISQUEEN 3.0mm THICK HEAVY DUTY PROTECTION BOARD. THIRD PARTY VALIDATION IS TO BE UNDERTAKEN UPON THE COMPLETED TANKING MEMBRANE INSTALLATION PRIOR TO COMMENCEMENT OF BACKFILLING. A SUPPORTING VALIDATION REPORT IS TO BE PROVIDED BY THE THIRD PARTY.
- LOCATION OF THE VENT OUTLET TO THE ATTENUATION TANKS IS AS PER THE PLAN DRAWING OR IS TO BE AGREED WITH THE ARCHITECT/CLIENT.
- PRIOR TO CCTV SURVEY, THOROUGHLY FLUSH WITH WATER AND ROD ALL PIPELINES AND MANHOLES TO REMOVE ANY CONSTRUCTION DEBRIS, BACKFILL MATERIAL AND SILT. ANY DETRITUS PRESENT SHALL BE SAFELY DISPOSED OF WITHOUT DISCHARGING THEM INTO SEWERS OR WATERCOURSES.
- UPON COMPLETION OF THE PROPOSED DRAINAGE WORKS, THE CONTRACTOR IS TO ARRANGE FOR ALL SYSTEMS, INCLUDING INTERFACES WITH EXISTING DRAINAGE PIPES AND MANHOLES, TO BE CCTV SURVEYED. IN ADDITION, THE TWIN WALL HDPE INSTALLATIONS ARE TO BE LASER PROFILED TO RECORD THE QUALITY AND ANY DEFORMATION OF THE PIPEWORK. A SUBSEQUENT REPORT IS TO BE PROVIDED TO SLEATER & WATSON. IT IS FURTHER RECOMMENDED THAT LASER PROFILING IS UNDERTAKEN ON HDPE DRAINS BELOW HARD SURFACES PRIOR TO COMPLETION.

P1	PRELIMINARY ISSUE	14.05.26	MB
REV	AMENDMENTS	DATE	INTS

STATUS **PRELIMINARY**

Sleater & Watson

Consulting Civil & Structural Engineers.

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Website: www.sleaterwatson.co.uk

CLIENT **BAE SYSTEMS**

PROJECT **MODULAR BUILDING, (CEB REPLACEMENT), BAE SYSTEMS, SAMLESBURY.**

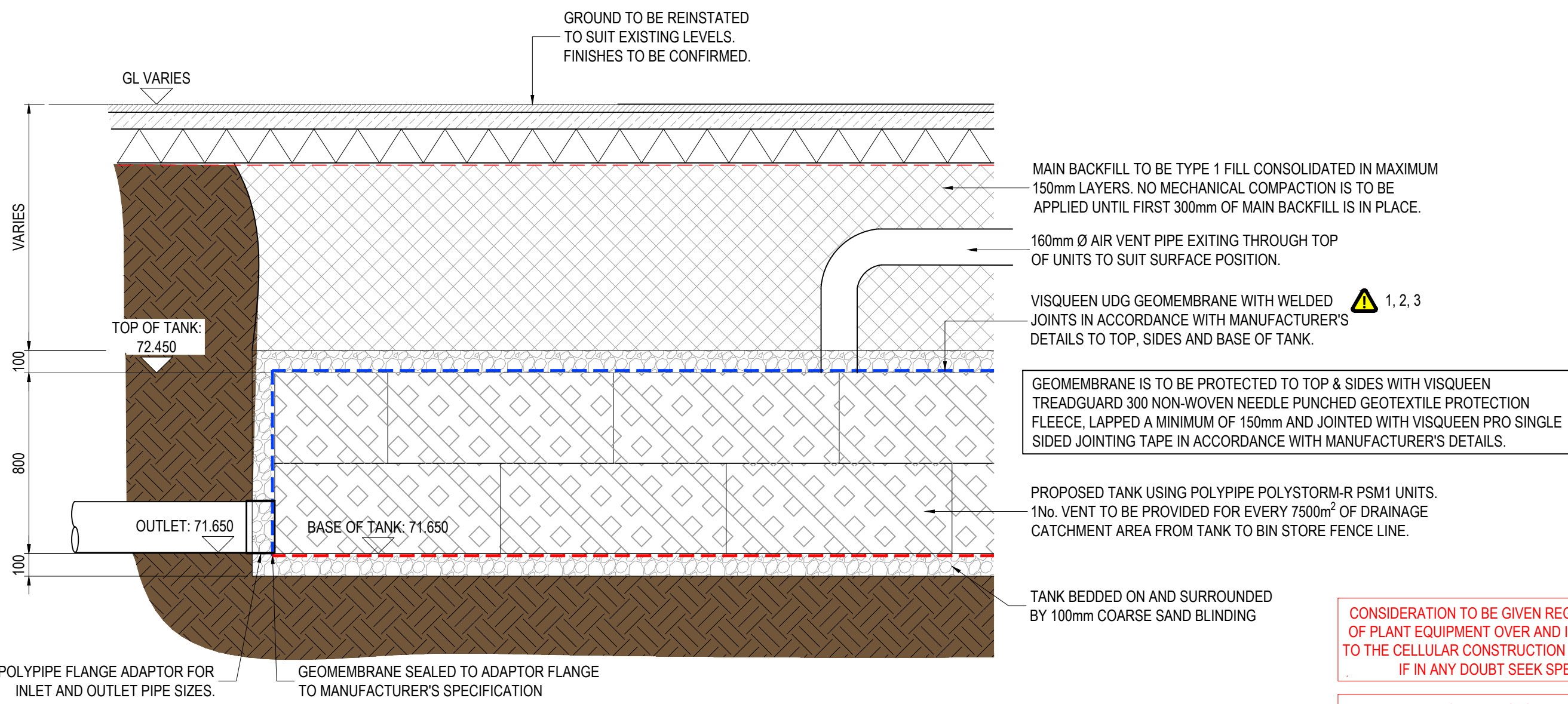
TITLE **DRAINAGE DETAILS SHEET 2**

DRAWN MB	CHECKED GJW	DATE MAY. 2026	PROJECT No. 225/011	SCALE@A1 AS SHOWN
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DRG No. **CEB-SAW-XX-00-52-DR-C-5221-S0-P1**

DRAWING ISSUED FOR DISCHARGE OF PLANNING CONDITIONS

CONSTRUCTION (DESIGN AND MANAGEMENT) REGULATIONS 2015 - MANAGING HAS INFORMATION BOX FOR THE CONSTRUCTION AND MAINTENANCE OF THE PROJECT	
IN ADDITION TO THE HAZARDS AND RISKS NORMALLY ASSOCIATED WITH THE TYPE OF WORKS DETAILED ON THIS DRAWING, TAKE NOTE OF THE FOLLOWING SIGNIFICANT RISKS WHICH ARE NOT OBVIOUS, ARE UNUSUAL, OR LIKELY TO BE DIFFICULT TO MANAGE. IT IS ASSUMED THAT ALL WORKS ON THIS DRAWING WILL BE CARRIED OUT BY A COMPETENT CONTRACTOR WORKING, WHERE APPROPRIATE, TO AN APPROPRIATE METHOD STATEMENT.	
	INDICATES A RESIDUAL RISK WARNING
- AVOIDANCE OF EXISTING BURIED AND UNKNOWN UNDERGROUND SERVICES. BEFORE STARTING WORK, UNDERGROUND SERVICE PLANS SHOULD BE OBTAINED AND SERVICE SCANNING MUST BE COMPLETED BY THE CONTRACTOR. - CONTAMINATED OR UNSTABLE GROUND CONDITIONS. - THE DESIGN OF TEMPORARY WORKS, SUCH AS TRENCH SUPPORT, DE-WATERING, TEMPORARY PROPPING, ETC., WHICH MUST BE UNDERTAKEN BY A TEMPORARY WORKS DESIGNER.	

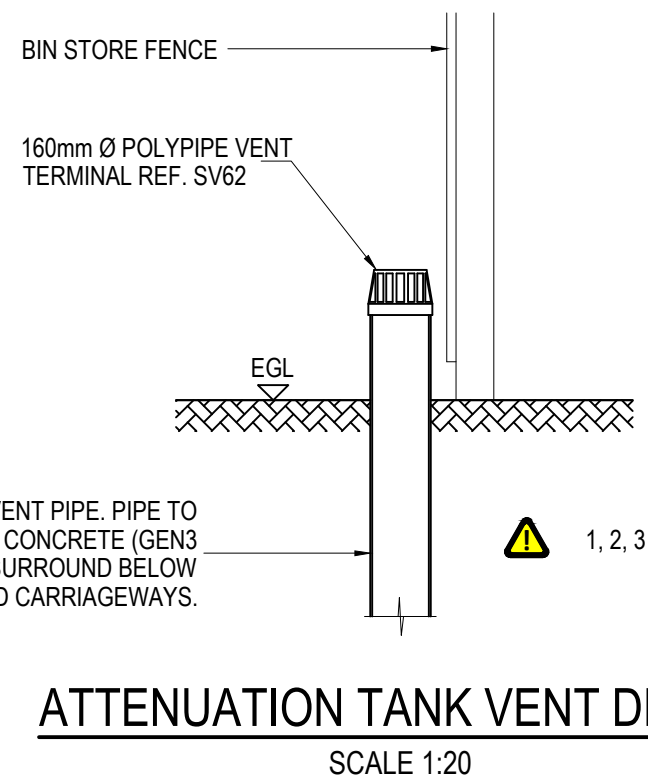


TYPICAL SECTION THROUGH ATTENUATION TANK
SCALE 1:20

CONSIDERATION TO BE GIVEN REGARDING THE TRACKING OF PLANT EQUIPMENT OVER AND IMMEDIATELY ADJACENT TO THE CELLULAR CONSTRUCTION DURING CONSTRUCTION. IF IN ANY DOUBT SEEK SPECIALIST ADVICE

ATTENUATION TANK SYSTEM TO BE INSTALLED TO MANUFACTURER'S SPECIFICATION WITH AIR VENT(S) CONVENIENTLY LOCATED. CONFIGURATION OF SHOWN INDICATIVELY ONLY

REFER TO ENLARGED DETAIL FOR WRAPPING AND BEDDING REQUIREMENTS OF ATTENUATION TANK



ATTENUATION TANK VENT DETAIL

CONSTRUCTION (DESIGN AND MANAGEMENT) REGULATIONS 2015 - MANAGING H&S INFORMATION BOX FOR THE CONSTRUCTION AND MAINTENANCE OF THE PROJECT	
IN ADDITION TO THE HAZARDS AND RISKS NORMALLY ASSOCIATED WITH THE TYPE OF WORKS DETAILED ON THIS DRAWING, TAKE NOTE OF THE FOLLOWING SIGNIFICANT RISKS WHICH ARE NOT OBVIOUS, ARE UNUSUAL, OR LIKELY TO BE DIFFICULT TO MANAGE. IT IS ASSUMED THAT ALL WORKS ON THIS DRAWING WILL BE CARRIED OUT BY A COMPETENT CONTRACTOR WORKING, WHERE APPROPRIATE, TO AN APPROPRIATE METHOD STATEMENT.	
	INDICATES A RESIDUAL RISK WARNING
1.	AVOIDANCE OF EXISTING BURIED AND UNKNOWN UNDERGROUND SERVICES. BEFORE STARTING WORK, UNDERGROUND SERVICE PLANS SHOULD BE OBTAINED AND SERVICE SCANNING MUST BE COMPLETED BY THE CONTRACTOR.
2.	CONTAMINATED OR UNSTABLE GROUND CONDITIONS.
3.	THE DESIGN OF TEMPORARY WORKS, SUCH AS TRENCH SUPPORT, DE-WATERING, TEMPORARY PROPPING, ETC., WHICH MUST BE UNDERTAKEN BY A TEMPORARY WORKS DESIGNER.

COMPACTION OF THE FIRST 300mm OF STONE OVER THE TOP AND IMMEDIATELY ADJACENT TO THE ATTENUATION TANKS MUST BE UNDERTAKEN BY USE OF NON-MECHANICAL COMPACTION PLANT WITH A GROSS WEIGHT OF LESS THAN 2300kg/m.

THIRD PARTY VALIDATION IS TO BE UNDERTAKEN UPON THE COMPLETED TANKING MEMBRANE INSTALLATION PRIOR TO COMMENCEMENT OF BACKFILLING. A SUPPORTING VALIDATION REPORT IS TO BE PROVIDED BY THE THIRD PARTY

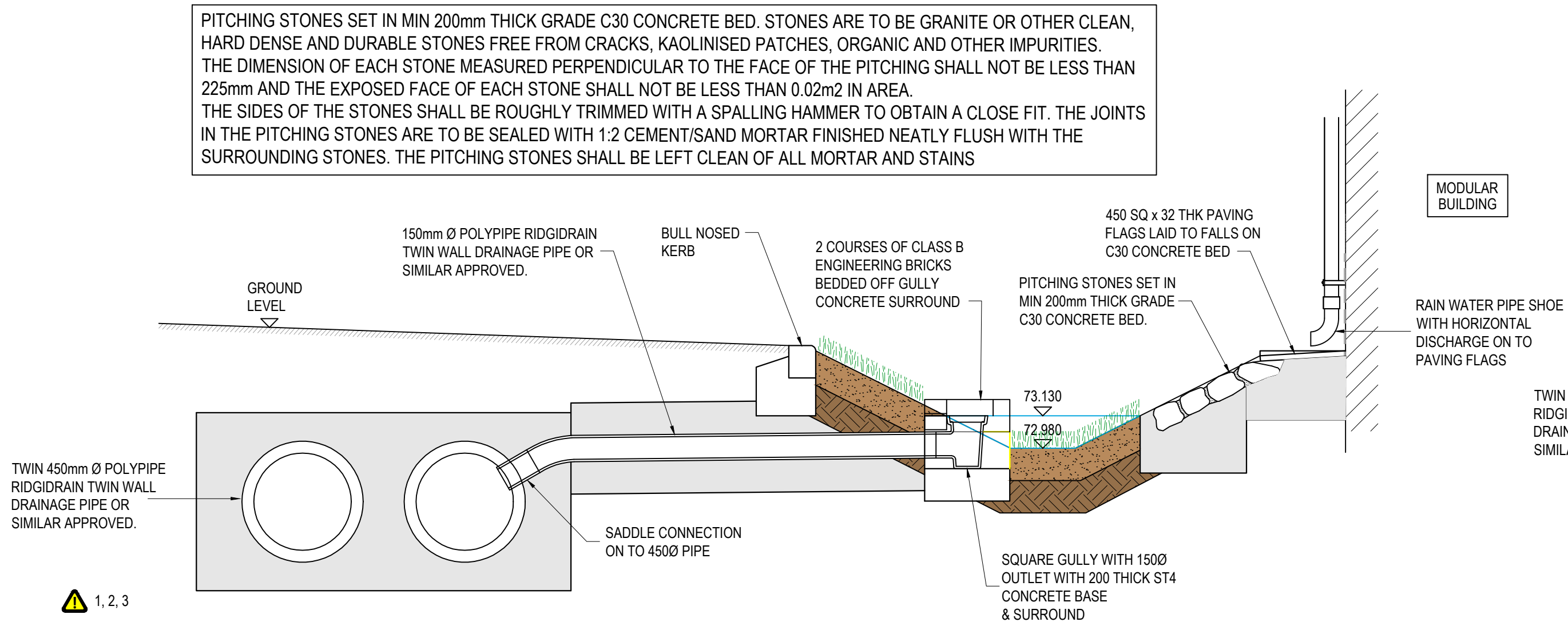
TEMPORARY PROTECTION TO ATTENUATION TANK IS TO BE PROVIDED UNTIL FULL HARDSTANDING CONSTRUCTION IS COMPLETE - PROVIDE TEMPORARY BYPASS DRAINS

SHOULD GROUND WATER BE ENCOUNTERED THEN APPROPRIATE DE-WATERING METHODS SHOULD BE USED. SEEK SPECIALISTS ADVICE FOR INSTALLATION OF ATTENUATION TANKS

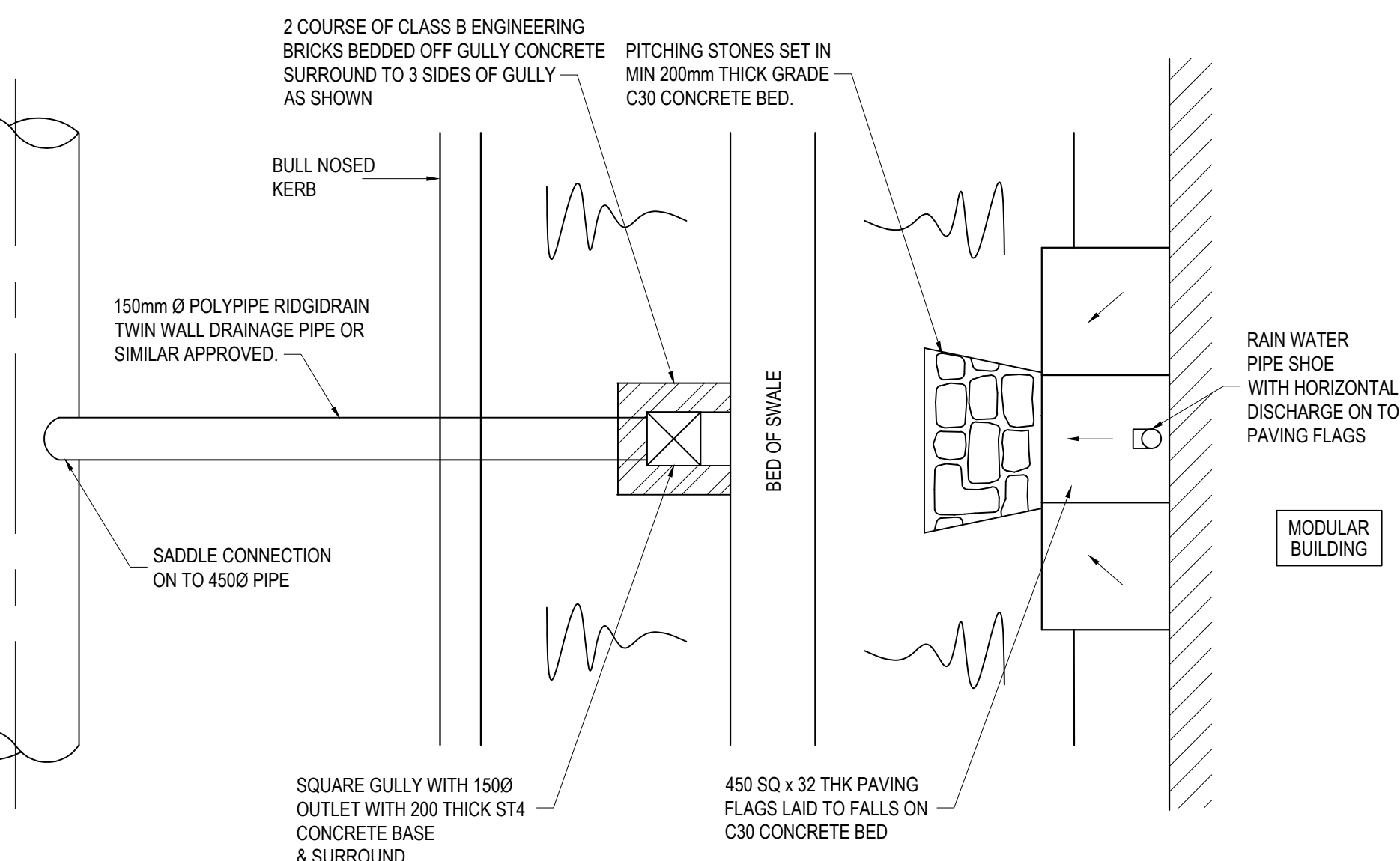
ATTENUATION TANKS AND ASSOCIATED PROTECTION (MEMBRANES AND PROTECTION FLEECE / BOARD) ARE TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S DETAILS AND SPECIFICATIONS

GENERAL NOTES

- DRAINAGE DESIGN AND CONSTRUCTION TO BE IN ACCORDANCE WITH: BUILDING REGULATIONS APPROVED DOCUMENT H. BS EN 12056 - GRAVITY DRAINAGE SYSTEMS INSIDE BUILDINGS. BS EN 752 - DRAIN AND SEWER SYSTEMS OUTSIDE BUILDINGS. BS EN 1510 - CONSTRUCTION AND TESTING OF DRAINS AND SEWERS. SEWERS FOR ADOPTION - 7TH EDITION.
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- ALL CONCRETE MANHOLES ARE TO BE FORMED USING STANTON BONNA CONCRETE RINGS, COVER SLABS AND REDUCING SLABS (WHERE APPLICABLE) OR SIMILAR APPROVED TO BS EN 1917 AND BS 5911-3. FOR CONSTRUCTION AND SIZES REFER TO DETAILS DRAWING.
- ALL MANHOLE COVERS ARE TO BE IN ACCORDANCE WITH BS EN 124 BY CLARK-DRAIN TO THE LOAD CLASS NOTED WITHIN THE MANHOLE SCHEDULE AND SIZED IN ACCORDANCE WITH SLEATER & WATSON'S DETAIL DRAWINGS.
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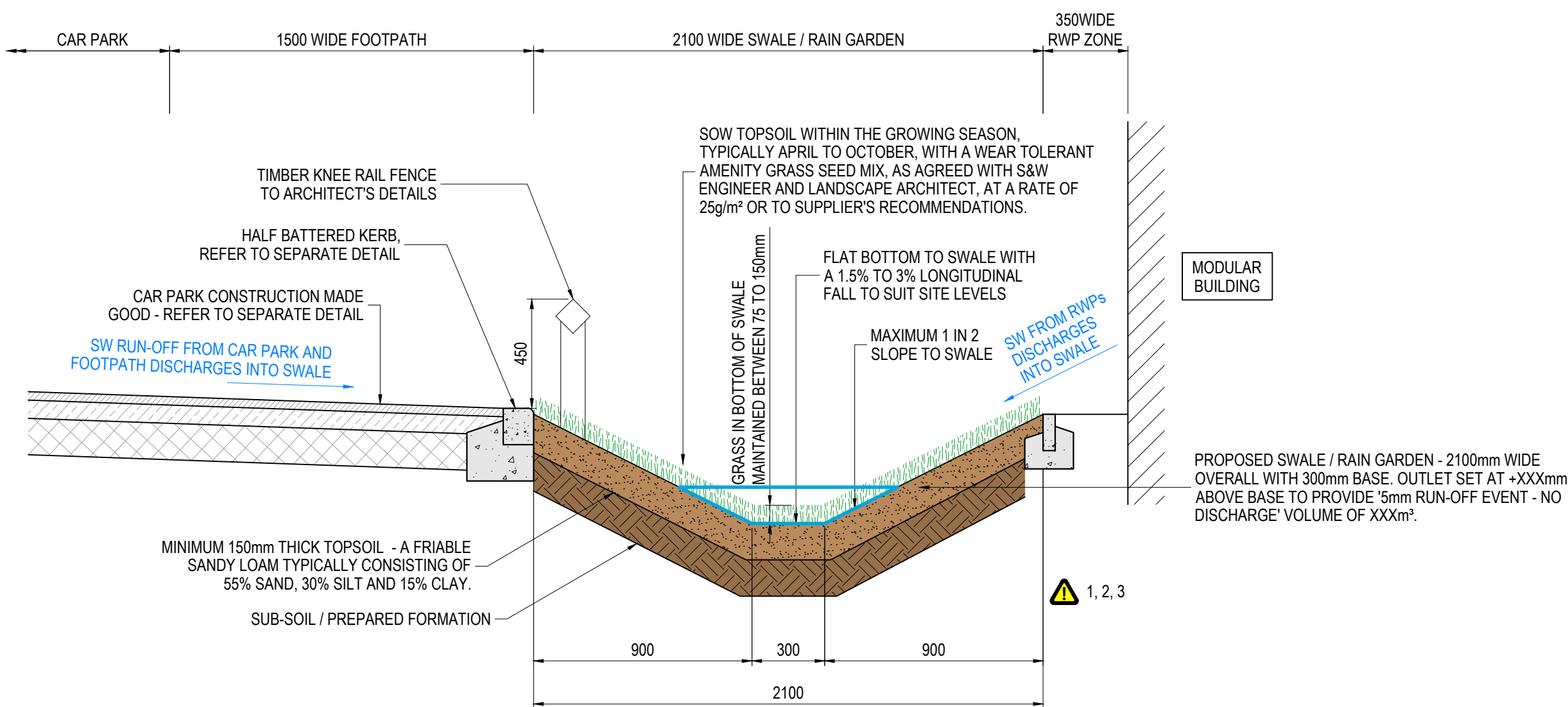


SECTION THROUGH SWALE & SURFACE WATER DRAINAGE SYSTEM

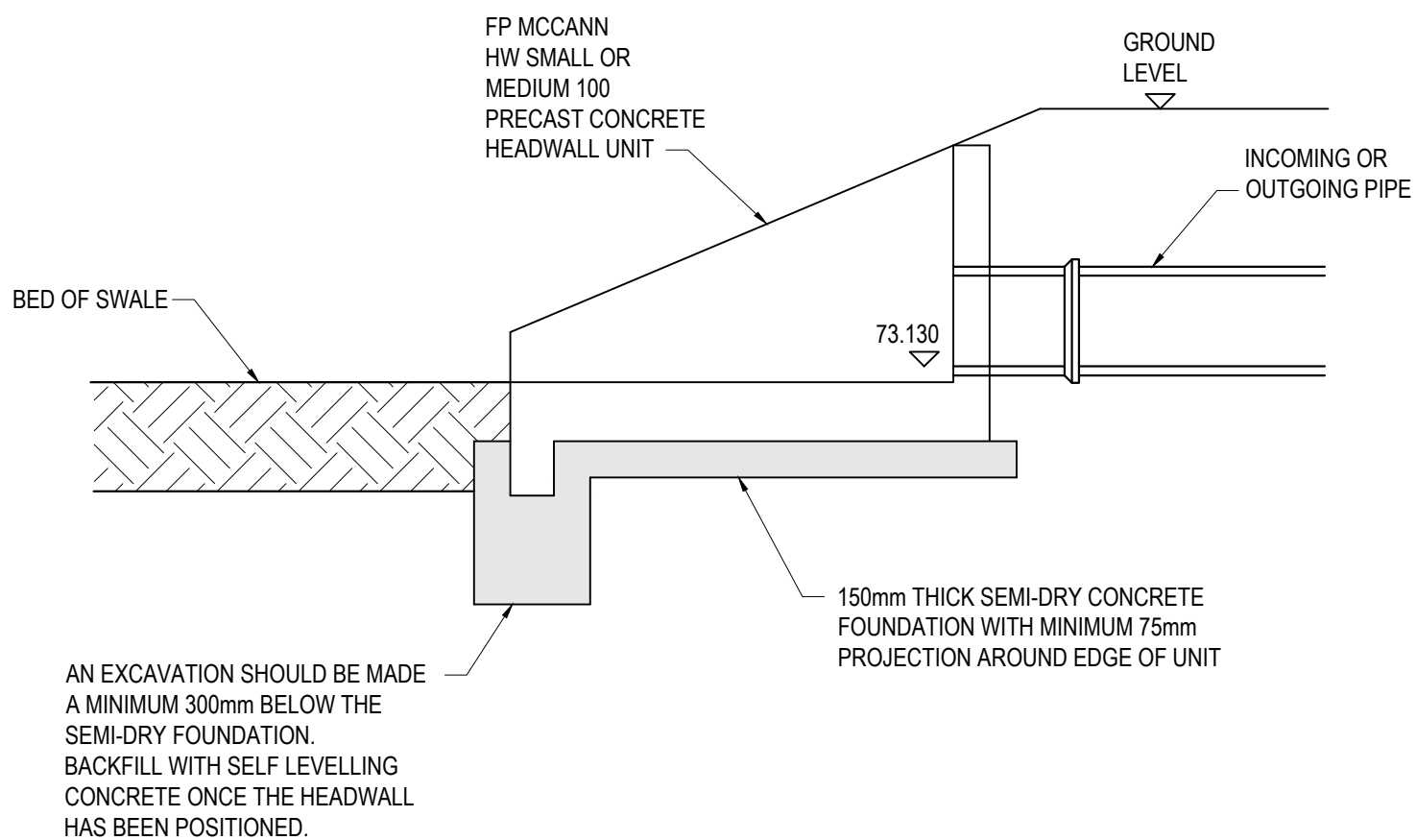


PART PLAN ON SWALE & SURFACE WATER DRAINAGE SYSTEM

DRAWING ISSUED FOR DISCHARGE OF PLANNING CONDITIONS



TYPICAL SWALE / RAIN GARDEN DETAIL
SCALE 1:20



PRECAST CONCRETE HEADWALL DETAIL

P2	ATTENUATION TANK DETAILS UPDATED.	06.08.26	GJW
P1	PRELIMINARY ISSUE	14.05.26	MB
REV	AMENDMENTS	DATE	INTS

STATUS		PRELIMINARY	
Sleater & Watson		Consulting Civil & Structural Engineers. Ribble House, Meanygate, Bamber Bridge, Preston, PR5 6UP Telephone: 01772 821044 E-mail: admin@sleaterwatson.co.uk Website: www.sleaterwatson.co.uk	
CLIENT		BAE SYSTEMS	
PROJECT		MODULAR BUILDING, (CEB REPLACEMENT), BAE SYSTEMS, SAMLESBURY.	
TITLE		SUDS DETAILS	
DRAWN MB	CHECKED GJW	DATE MAY. 2026	PROJECT No. 225/011
ORG No.		SCALE@A1 AS SHOWN	
CEB-SAW-XX-00-52-DR-C-5222-S0-P2			