



Lidl Great Britain Ltd

Geo-Environmental Investigation Report

Lidl, Eastern Way, Melksham

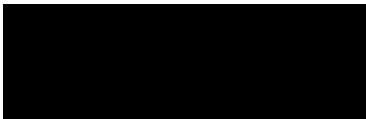
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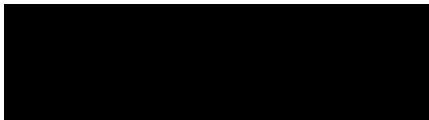
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Drawings

24-1905-P/01/A	Site Location Plan
24-1905-P/02/A	Exploratory Hole Location Plan
XX-XX-D-A-91005	Proposed Site Plan – Option 2

Appendices

Appendix A	Photographs
Appendix B	Exploratory Hole Records
Appendix C	Chemical Laboratory Analysis Results
Appendix D	Geotechnical Laboratory Analysis Results
Appendix E	OB-Screen Human Health Screening Assessment
Appendix F	Ground Gas Monitoring Results
Appendix G	TRL DCP Results



Summary

Development Proposals	The site currently comprises an agricultural field, which has most recently been used for grazing. The proposals are to construct a new Lidl store with associated infrastructure including access, parking, and peripheral soft landscaped areas.
Site Setting and History	The site area is approximately 1.12 hectares, centred around National Grid Reference: 392230, 164250. The nearest postcode to this site is: SN12 7QS. The site is shown on the appended Site Location Plan (24-1905-P-P/01/A). A review of the available historical maps from 1881 indicate that the site has not been subject to development itself, however, there have been some significant residential and infrastructure developments to the west and north of the site. Through historical aerial imagery, the agricultural field has been used for both crops and grazing.
Potential Contaminants from Desk Study	Limited low-level risks have been identified relating to identified human health and buried infrastructure receptors posed by the presence of localised metals, PAH, TPH pesticides, herbicides, and asbestos associated with historical activity and Made Ground.
Ground Investigation Methodology	A total of 12No. window sample boreholes (WS101-WS112) were advanced across the site to depths of up to 5.00m bgl, using a small, tracked, light percussion window sampling rig. Window sample boreholes were advanced across the site on the 21st and 22nd October 2025. Four TRL DCP's (DCP01-DCP04) were undertaken within the proposed car parking and access areas in order to calculate indicative CBR values on the 21st October 2025. Gas and groundwater monitoring wells were installed within WS101, WS107 and WS112 to depths of up to 5.00m bgl.
Encountered Strata	Beneath a layer of Made Ground Topsoil and Made Ground, competent cohesive strata of the Oxford Clay Formation was encountered. The site was devoid of superficial deposits.
Soil Contamination Assessment	The results of the analysis have been reviewed and compared against appropriate screening criteria for Human Health within a Commercial end use scenario. None of the recorded concentrations of Metals, PAH's, Cyanide, Phenol, TPHCWG, BTEX, OCP Pesticides or Triazine Herbicides were recorded above their adopted screening values. Additionally, no positive detections for Asbestos containing materials (ACM's) were recorded. The results of the pH and water-soluble sulphate testing indicate that the risk posed to future buried concrete structures is medium.
Ground Gas Risk Assessment	In line with the recommendations provided in CIRIA 665, a GSV of 0.002 l/hr has been calculated for carbon dioxide. The GSV classifies the site as 'Characteristic Situation 1' (Very Low Risk), in accordance with CIRIA Report C665 whereby no ground gas protection measures would be required for the installation of any new floor slabs. The data from the Envirocheck Report indicates that no Radon protective measures are required on site.
Waste Disposal	The reuse of soils as engineered fill should be undertaken in accordance with an appropriate Environment Agency licence as defined in the statutory guidance on the 'Definition of Waste' or CL:AIRE Code of Practice. It should be noted that the Made Ground Topsoil, Made Ground and natural strata on site should only be classified as a waste material if they are discarded, there is an intent to discard them or if there is a requirement to discard them. A level 1 waste characterisation of all the recorded chemical laboratory analysis results would indicate that the Made Ground on site would be classified as Non-Hazardous Waste in the first instance. To determine whether the remaining Made Ground could be further classified as Inert Waste, which is a sub-category of Non-Hazardous, three samples were scheduled for Waste Acceptance Criteria (WAC) analysis. The analysis results for the samples from WS103 and WS110 at 0.30m bgl indicate the Made Ground is likely to be classified as Inert Waste. However, the sample of Made Ground from WS106 at 0.60m bgl exceeds the Inert Waste threshold for Fluoride and remains as Non-Hazardous Waste. Further confirmatory WAC tests should be scheduled on all excavated materials that are designated for off-site disposal. It may be the case that through consultation with the receiving waste facility, the Made Ground from WS106 may be acceptable as Inert given the very minor and marginal exceedance. The Made Ground Topsoil should be viewed as a resource or commodity rather than a waste. As the Made Ground Topsoil is suitable for landscaping or for residential gardens in terms of



	contamination, the Made Ground Topsoil at the site should be stripped and used in the landscaping areas of the proposed development. Any surplus material could be reused on other developments subject to compliance and suitability for reuse assessments. It should be noted that any Topsoil, even if uncontaminated, is unlikely to constitute 'inert waste' due to its high organic matter content. The natural strata on-site would be classified as default Inert Waste.
Geotechnical Assessment	The Made Ground is not considered to be a suitable founding stratum. Therefore, the foundations must extend into the underlying competent Oxford Clay Formation. For the proposed building footprint, conventional shallow strip/trench fill foundations would be viable. Based on the medium to high strength of the near surface cohesive strata, typically a shallow foundation solution such as a strip or raft foundation would be recommended, however the presence medium volume change potential soils and the presence of high water demand trees and hedges along the site boundaries, it is likely that the foundations will need to be significantly deepened, locally at two locations in excess of 2.50m bgl. The client has provided a detailed tree survey undertaken by Arboricultural Constraints & Opportunities Plan (reference 3074-ACOP-JP dated October 2025). A review of the tree survey has indicated a number of high water demand trees and a moderate water demand hedge (elm tree, oak tree, blackthorn) within influencing distance of the northeastern corner of the proposed store footprint. A high water demand hedge (Hawthorn) is also present adjacent to the proposed southeastern corner of the proposed footprint. Based on the presence of medium volume change potential cohesive deposits and the respective mature heights (24m elm and 10m hawthorn), in accordance with NHBC guidance the minimum founding depths for the northeastern and southeastern corner will be in excess of 2.50m bgl and should be designed by a suitably qualified engineer. For indicative purposes, assuming a foundation depth of 1.00m bgl, a safe allowable bearing capacity within the natural cohesive strata for a 0.60m wide strip/trench fill foundation would be 110kN/m² with 130kN/m² available for a 2.00m by 2.00m pad foundation at a depth of 1.00m bgl. Greater capacities will be available with depth. Both the Made Ground Topsoil and Made Ground beneath the site falls within Design Sulphate Class DS-1 and ACEC (Aggressive Chemical Environment for Concrete) Class AC-1s. The natural strata from beneath the site falls within Design Sulphate Class DS-3 and ACEC (Aggressive Chemical Environment for Concrete) Class AC-2s. The on-site observations, subsequent logs and calculated CBR values within near surface soils indicate compositional variability and is likely to require re-compaction or the importation of materials to supplement the eventual design parameters.
Recommendations	We recommend the following steps be taken to enable the proposed development to progress: • Submission of this report and assessment to the Local Authority Environmental Health/Contaminated Land Officer and water supply authority.



1 Introduction

Obsidian Geo-Consulting Ltd (Obsidian) was commissioned by Lidl Great Britain Ltd (the Client) to carry out a Geo-Environmental Ground Investigation and Assessment for a proposed store on Eastern Way, Melksham.

The site currently comprises an agricultural field, which has most recently been used for grazing. The proposals are to construct a new Lidl store with associated infrastructure including access, parking, and peripheral soft landscaped areas.

For the preparation of this document, we have been provided with the following plans and documents:

- Proposed Site Plan, Space Architects, Ref. XX-XX-D-A091005, Rev. P05, dated 22.09.25;
- Arboricultural Constraints & Opportunities Plan, Ref. 3074-ACOP-JP, dated October 2025.

Obsidian have previously undertaken a Geo-Environmental Desk Study Report Ref. 24-1905-P-R1 dated March 2024.

1.1 Objective

The objective of this assessment is to support the planning application for the development of the site by identifying any potentially significant constraints to future proposed developments associated with the likely ground conditions prevalent beneath the site and the surrounding area and to identify any potential areas of environmental liability or geotechnical constraints associated with the site.

1.2 Scope

This investigation and assessment were carried out to an agreed brief as set out in Obsidian's proposal (ref. SD/24-1905-Q/L002 dated 7th March 2025). The instructed scope of works includes the following:

- Two days of window sampling using a tracked window sampling rig.
- Installation of gas/groundwater monitoring wells within three of the window sample holes, and four return gas monitoring visits.
- Four TRL probes to calculate CBR values.
- Chemical laboratory analysis of selected soil and groundwater samples.
- Geotechnical laboratory analysis of selected soil samples.
- Production of a geo-environmental interpretative report.

1.3 Limitations

This report has been prepared by Obsidian with all reasonable skill, care, and attention within the terms of the Contract with the Client and taking account of the information made available by the Client, as well as the manpower and resources devoted to it by agreement with the Client. Obsidian disclaims any responsibility to the Client and others in respect of any matters outside the scope of the above Contract.

This report has been produced on behalf of the Client, and no responsibility is accepted to any Third Party for all or any part. This report should not be relied upon or transferred to any other parties without the express written authorisation of Obsidian. If any unauthorised Third Party comes into possession of this report, they rely on it at their own risk, and the authors owe them no duty of care or skill.



Any plans appended to this report should not be used for scaling purposes.

2 The Site

2.1 Site Location

The site area is approximately 1.12 hectares, centred around National Grid Reference: 392230, 164250. The nearest postcode to this site is: SN12 7QS. The site is shown on the appended Site Location Plan (24-1905-P-P/01/A).

2.2 Site Description

The proposed plot comprises a grassed field which is bounded to the north, east and west by a livestock fence with hedgerow and tree coverage along the boundaries. The southern boundary is not defined with the field extending further southwards. The field is accessed through a wooden livestock gate within the north-western boundary.

During the walkover in March 2024, the ground surface across the field was wet and boggy and exhibited significant water retention. Although the field was grassed and relatively level, the soft and loose nature of the near surface soil may suggest that it has been ploughed in the past resulting a greater degree of near surface disturbance. This observation can be proven with aerial imagery.

During the ground investigation in October 2025, the ground surface across the field was dry.

The highway verges and roads of Eastern Way and Sandridge Common are present to the west and north respectively. The wider areas to the north, east and south are agricultural fields with sparse residential coverage to the northeast and a newly constructed residential estate to the west. There are a number of newly formed drainage ditches to the west, adjacent to Eastern Way and the residential estate potentially indicating wider issues around surface water drainage and infiltration.

Photographs are presented as Appendix A.

3 Review of Previous Desk Study Report

The site has been the subject of a previous Geo-Environmental Desk Study:

- Obsidian Geo-Consulting Limited, Geo-Environmental Desk Study Report 24-1905-P-R1 dated March 2024.

The salient points of the Desk Study are detailed within the following sections.

3.1 Site History

A review of the available historical maps from 1881 indicate that the site has not been subject to development itself, however, there have been some significant residential and infrastructure developments to the west and north of the site. Historical aerial imagery indicates that the agricultural field has been used for both crops and grazing.

3.2 Geology, Hydrogeology and Hydrology

3.2.1 Geology and Hydrogeology

There are no superficial deposits mapped on site. The bedrock is Oxford Clay Formation.

There is no superficial aquifer identified on the site, and the bedrock is unproductive strata.



3.2.2 Hydrology

The River Avon runs northeast to southwest, approximately 1.5km west of the site. The nearest surface water feature is located approximately 129m west of the site and is a tributary of the River Avon.

According to the Envirocheck report, the northern area of the site is considered to be at low risk from surface water flooding.

3.3 Environmental Considerations from Desk Study

Limited low-level risks have been identified relating to identified human health and buried infrastructure receptors posed by the presence of localised metals, PAH, TPH pesticides, herbicides, and asbestos associated with historical activity and Made Ground.

There is also a potential low-level risk for ground gases from both Made Ground and natural strata.

These risks cannot be removed through a desk-based risk assessment alone and hence it is recommended that these potential risks are assessed further through an appropriate intrusive investigation which should be sufficient in scope to assess the potential risks and enable development of a remedial strategy for the site if required.

The data from the Envirocheck Report indicates that no Radon protective measures are required on site.

3.4 Geotechnical Considerations from Desk Study

Based on the anticipated geology, it is likely that conventional strip or trench fill foundations will be appropriate, subject to confirmation.

Elevated pH and water-soluble sulphates can arise from Made Ground and natural strata; however, this is deemed to be low risk.

There is a likelihood of limited tree/hedgerow influence on proposed foundations. It was recommended that a tree survey be undertaken, and the findings assessed in conjunction with a geotechnical assessment.

3.5 Preliminary Source-Pathway-Receptor Relationships

The preliminary Source-Pathway-Receptor relationships identified for the site bearing in mind the anticipated redevelopment proposals are summarised as follows:

Table 3.1: Preliminary Source-Pathway-Receptor Relationships

Source Material/Activity	Potential Contaminant	Pathways	Receptor	Risk
Made Ground on site and off site	Metals, PAH, TPH	Inhalation, Ingestion, Dermal contact	Future Site Workers, Customers, Construction workers	Low
	Asbestos	Inhalation	Future site workers, Customers, Construction workers	Low
Agriculture on site	Herbicides, Pesticides, TPH	Inhalation, Ingestion, Dermal contact	Future site workers, Customers, Construction workers	Low
Made Ground and Natural Strata on site	Water-soluble Sulphate	Aggressive attack	Buried concrete	Low



	TPH, PAH	Direct Contact	PE Drinking Water Pipes	Low
Made Ground and Natural Strata on site and off site	Methane, Carbon Dioxide, Carbon Monoxide, Hydrogen Sulphide	Migration of Ground Gas/Vapours	Future site workers, Customers, Construction workers	Low

4 Investigation Methodology

4.1 Objective

The objective of this assessment is to support the planning application for the redevelopment of the site by identifying any potentially significant constraints to future proposed developments associated with the likely ground conditions prevalent beneath the site and the surrounding area and to identify any potential areas of environmental liability or geotechnical constraints associated with the site.

4.2 Clearance of Underground Services

All exploratory holes were positioned in order to avoid known services marked on the Topographic and Underground Services Survey Plan provided by the client. In addition, all exploratory hole locations were scanned on site by Obsidian using a cable avoidance tool (CAT) and signal generator (Genny).

4.3 Exploratory Holes

A total of 12 No. window sample boreholes (WS101-WS112) were advanced across the site to depths of up to 5.00m bgl, using a small, tracked, light percussion window sampling rig. Window sample boreholes were advanced across the site on the 21st and 22nd October 2025.

Four TRL DCP's (DCP01-DCP04) were undertaken within the proposed car parking and access areas in order to calculate indicative CBR values on the 21st October 2025.

Gas and groundwater monitoring wells were installed within WS101, WS107 and WS112 to depths of up to 5.00m bgl. The wells were constructed using 50mm HDPE plain pipe in a bentonite seal from ground level to the base of the plain pipe. Below this, 50mm HDPE slotted pipe in a gravel surround to the base of the exploratory hole was installed. The wells were fitted with a gas tap assembly at ground level suitable for connection to proprietary gas monitoring equipment and a lockable cover at ground level to provide protection. The other exploratory holes were backfilled with arisings and reinstated at surface.

The approximate locations of the exploratory holes are shown on the appended Exploratory Hole Location Plan (24-1905-P/02/A).

4.4 Investigation Constraints

There were no investigation constraints. However, a monitoring well from a previous ground investigation undertaken recently by others was noted on site. This is understood to be known as WS01.

4.5 Logging and Sampling

Engineer's logs of the strata encountered were developed in accordance with BS EN ISO 14688 and BS EN 14689 and copies are presented as Appendix B.



Standard Penetration Tests (SPTs) were taken at regular intervals within the window sample boreholes to provide 'N' values for empirical assessment of strength and density parameters of the strata.

Environmental soil samples and small disturbed soil samples were taken at selected depths in all exploratory holes, placed in appropriate containers, and submitted for chemical and geotechnical laboratory testing.

4.6 Chemical Laboratory Analysis

Selected soil and groundwater samples were subjected to appropriate chemical testing at the MCERTS and UKAS accredited laboratories of i2 Analytical for a suite of potential contaminants taking account of the Preliminary Conceptual Site Model and site observations. The scheduled chemical laboratory analysis is summarised in Table 4.1 and Table 4.2 below:

Table 4.1: Scheduled Chemical Laboratory Analysis - Soil

Analysis Type	Number of Samples
Metals	8
Cyanide	8
Phenol	8
PAH	8
Asbestos Screen	8
TPH CWG Inc BTEX	2
Soil Organic Matter	6
Triazine Herbicides	2
OCP Pesticides	2
WAC Suite	3

The results of the chemical laboratory analysis are presented in Appendix C.

4.7 Geotechnical Laboratory Analysis

Selected soil samples were subjected to appropriate geotechnical testing at the UKAS accredited laboratories of Geolabs and i2 Analytical. The scheduled geotechnical laboratory analysis is summarised in Table 4.2 below:

Table 4.2: Scheduled Geotechnical Laboratory Analysis

Analysis Type	Number of Samples
Plasticity Index Tests	6
Natural Moisture Content	6
pH	18
Water Soluble Sulphate	18

The results of the pH and water-soluble sulphate testing are included with the chemical testing results presented as Appendix C. The results of the soil moisture content and plasticity index testing are included as Appendix D.

5 Results of Investigation

5.1 Recorded Strata

The ground conditions encountered are similar to the mapped geology. Beneath a layer of Made Ground Topsoil and Made Ground, the Oxford Clay Formation was encountered. The site was devoid of any superficial deposits.



5.1.1 Made Ground Topsoil

Made Ground Topsoil was encountered in all exploratory points (WS101-WS112) from surface to typically 0.10m bgl. Borehole WS109 identified Topsoil to 0.20m bgl. It comprised a dark brown, slightly sandy clay with frequent rootlets.

5.1.2 Made Ground

Made Ground was found beneath the Topsoil in all exploratory points (WS101-WS112) to between 0.30m and 0.50m bgl, with the exception of borehole WS106, where Made Ground was found to 0.80m bgl. It typically comprised brown or brown mottled, orange brown, gravelly clay. Gravel included mainly brick fragments with some charcoal and quartzite.

5.1.3 Oxford Clay Formation

The Oxford Clay Formation was found beneath the Made Ground Topsoil in all exploratory points (WS101-WS112) to the base of the boreholes at 5.00m bgl. It was generally encountered as a brown mottled, orange brown clay overlying a grey mottled orange brown clay. These two layers are considered to be weathered in nature. Beneath the weathered layers, a brown mottled dark grey overlying a grey mottled brown clay was encountered. Throughout these layers, calcareous concretions, selenite crystals, shell fragments, and relict rootlets were observed. Occasional iron nodules were also noted.

5.2 Standard Penetration Tests (SPTs)

SPTs were undertaken within the window sample boreholes at regular intervals. The recorded, uncorrected SPT 'N' Values for the window samples are summarised in Table 5.1.

Table 5.1: Uncorrected SPT 'N' Values from the Window Sample Boreholes

Depth (m bgl)	Exploratory Hole											
	WS101	WS102	WS103	WS104	WS105	WS106	WS107	WS108	WS109	WS110	WS111	WS112
1.00	15	21	21	15	16	22	16	15	15	18	17	13
2.00	21	14	17	17	17	17	18	16	19	17	15	20
3.00	21	22	19	16	24	16	18	23	18	19	21	22
4.00	20	23	20	19	19	16	17	23	18	20	19	15
5.00	23	24	23	25	27	24	26	28	29	30	30	29

 Oxford Clay Formation

SPT results indicate that the Oxford Clay Formation is competent and will provide a suitable founding strata for the proposed store building.

5.3 Groundwater

Groundwater was encountered in borehole WS106 only at 4.00m bgl. This is likely to be perched surface water within the clay.

During the subsequent monitoring visits, the following, standing groundwater levels were recorded:

Table 5.2: Recorded Standing Groundwater Levels

Monitoring Well	Recorded Water Depth (m bgl)			
	27/10/2025	06/11/2025	12/11/2025	21/11/2025
WS101	Dry	Dry	4.22	3.60
WS107	Dry	Dry	4.28	1.21
WS112	Dry	Dry	4.13	3.80



All boreholes were dry during the first and second visits. Significant rainfall has occurred since the second visit, with some water recorded in the monitoring wells. However, this is likely trapped and perched surface water rather than true groundwater.

A monitoring well (WS01) from a previous ground investigation was also monitored during this period. The first visit recorded groundwater at 3.10m bgl and the second at 2.95m bgl. The final two visits within the period of significant rainfall found the borehole to be flooded. As previously mentioned, this water is likely to be trapped and perched surface water within the monitoring well.

5.4 Chemical Laboratory Analysis Results

The results of the chemical laboratory analysis have been reviewed and screened in line with the current legislative framework and criteria to assess the risk to human health.

The screening has been undertaken using the Obsidian OB-Screen Human Health Screening Tool which compares the recorded concentrations to the DEFRA 'Category 4 Screening Levels' (C4SL's) and the LQM/CIEH 'Suitable 4 Use Levels' (S4UL's) to be protective of human health. Where C4SL's and S4UL's are not available, the EIC/AGS/CL:AIRE Generic Assessment Criteria (GAC's) have been used. Given the proposals, the Commercial end use scenario has been adopted.

Soil Organic Matter (SOM) analysis has been undertaken to determine the most appropriate screening values for organic contaminants. Based on the average values, 6.0% SOM has been adopted for the screening assessment.

5.4.1 Metals

Eight samples have been analysed for metals. None of the recorded concentrations exceed their adopted screening values.

5.4.2 Total Cyanide and Phenol

Eight samples have been analysed for total cyanide and phenol. None of the recorded concentrations exceed their adopted screening values.

5.4.3 PAHs

Eight samples were analysed for a suite of speciated PAHs with three additional samples also analysed for PAHs as part of a WAC suite. None of the recorded concentrations exceed their adopted screening values.

5.4.4 Asbestos

Eight samples were screened for the presence of fibrous asbestos materials. No asbestos fibres were detected in any of the samples.

5.4.5 TPH CWG, BTEX & MTBE

Two samples were analysed for speciated TPH and BTEX including MTBE with three additional samples also analysed for BTEX as part of a WAC suite. None of the recorded concentrations exceeded their adopted screening values.

5.4.6 OCP Pesticides and Triazine Herbicides

Two samples were analysed for OCP pesticides and triazine herbicides. Neither sample recorded contaminants exceeding the limit of detection.

The results of the screening assessments are presented in Appendix E.



5.5 Geotechnical Laboratory Analysis Results

5.5.1 pH and Water-Soluble Sulphate

Eighteen samples were tested for pH and water-soluble sulphates, four from the Made Ground Topsoil material, four from the Made Ground materials and ten from the underlying natural strata. The results are summarised in Table 5.3:

Table 5.3: pH and Water-Soluble Sulphate Results Summary

Analysis	Made Ground Topsoil		Made Ground		Natural Strata	
	Min Value	Max Value	Min Value	Max Value	Min Value	Max Value
pH (pH units)	6.0	6.6	6.4	7.4	7.6	8.2
Water-Soluble Sulphate (mg/l)	<1.0	3.2	<1.0	3.2	346	2820

The combined results of the pH and water-soluble sulphate analysis indicate that the risk posed to future buried concrete structures is medium. This is discussed further in Section 7.4.

5.5.2 Plasticity Index Testing

The results of the plasticity index testing undertaken on six natural clay samples are summarised in Table 5.4.

Table 5.4: Plasticity Index Test Results Summary

Location	Depth (m) bgl	Water Content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Percentage Passing 425um (%)	Modified Plasticity Index
WS102	1.90	26.7	56	23	33	100	33
WS103	1.10	20.9	55	23	32	100	32
WS104	2.30	26.0	51	23	28	95	26.6
WS107	1.50	26.5	54	24	30	99	29.7
WS109	2.10	26.3	50	24	26	100	26
WS110	1.70	24.6	48	20	28	100	28

The cohesive samples analysed vary from intermediate plasticity to high plasticity. Based on the modified plasticity index, the natural clay soils have a medium volume change potential.

5.6 Ground Gas Monitoring Results

Gas monitoring results have been compared to guidance presented in CIRIA Report C665, Assessing Risks Posed by Hazardous Ground Gases to Buildings, 2007.

CIRIA C665 indicates that ground gas protection measures may be necessary in new buildings on sites where methane concentrations exceed a threshold value of 1% v/v and/or where carbon dioxide concentrations exceed a threshold value of 5% v/v. The gas flow rate is also considered in the required level of protection.

Maximum methane (CH₄) and carbon dioxide (CO₂) concentrations, as percentage volume in air (%v/v), minimum oxygen (O₂) concentrations (%v/v), maximum carbon monoxide (CO) and hydrogen sulphide (H₂S) concentrations, in parts per million (ppm), and gas flow rates in litres per hour (l/hr) have been monitored in the three Obsidian window sample monitoring wells on four occasions.

The ground gas monitoring results are presented in Appendix F, and the detections are summarised in Table 5.5.



Table 5.5: Ground Gas Monitoring Results Summary

Well	Methane concentrations (% v/v)	Carbon Dioxide concentrations (% v/v)	Flow Rates (l/hr)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)
WS101	ND	1.5 – 2.0	ND	ND-10	ND
WS107	ND	0.5 – 1.8	ND	ND-10	ND
WS112	ND	1.6 – 1.8	ND	ND-10	ND

The carbon monoxide was only detected during the first visit. These minor detections are likely as a result of the monitoring well establishment and stabilisation and are not considered to be of concern moving forward.

The monitoring well in borehole WS01 from the previous investigation was also monitored during the first and second visits. This monitoring well recorded values similar to those recorded above.

Atmospheric pressures ranged from 995mb to 1022mb and were recorded over falling and rising pressure trends. This monitoring programme is considered to have assessed the worst-case gas generation scenario (<1000mb).

6 Environmental Assessment

6.1 Soil

Representative soil samples from across the site have been scheduled for a suite of analyses. The analysis has included a suite comprising Metals, Cyanide, Phenol, PAHs, TPH, BTEX, OCP Pesticides, Triazine Herbicides and Asbestos.

The results of the analysis have been reviewed and compared against appropriate screening criteria for Human Health within a Commercial end use scenario. None of the recorded concentrations of Metals, PAH's, Cyanide, Phenol, TPHCWG, BTEX, OCP Pesticides or Triazine Herbicides were recorded above their adopted screening values. Additionally, no positive detections for Asbestos containing materials (ACM's) were recorded.

The results of the pH and water-soluble sulphate testing indicate that the risk posed to future buried concrete structures is medium. This is further discussed in Section 7.4.

6.2 Ground Gas Risk Assessment

The preliminary risk assessment identified the ground gas risk to be low for the site.

A maximum carbon dioxide concentration of 2.0% v/v has been recorded during the monitoring visits, with no recorded levels of methane. Flow readings were not recorded above the instrument limit of detection of 0.1 l/hr.

The maximum carbon dioxide concentration of 2.0% v/v and a gas flow rate of 0.1 l/hr have been selected to calculate an initial Gas Screening Value (GSV) for the site in accordance with CIRIA Report C665 to determine the required level of methane and carbon dioxide protection measures for the proposed future site development.

The GSV is calculated as follows:

$$\text{GSV} = (\text{Gas Concentration}/100) \times \text{Flow Rate}$$

In line with the recommendations provided in CIRIA 665, a GSV of 0.002 l/hr has been calculated for carbon dioxide. The GSV classifies the site as 'Characteristic Situation 1' (Very Low Risk), in



accordance with CIRIA Report C665 whereby no ground gas protection measures would be required for the installation of any new floor slabs.

No Radon protection measures are likely to be required for this site.

6.3 Revised Conceptual Site Model

The revised Conceptual Site Model based on the information obtained from the intrusive investigation, the Human Health Risk Assessment has confirmed that the majority of the potential pollutant linkages identified during the desk study phase have been broken. The remaining potential pollutant linkages presented in table 6.1 require mitigation.

Table 6.1: Updated Source-Pathway-Receptor Relationships

Source Material/Activity	Potential Contaminant	Pathways	Receptor	Risk
Natural Strata	Water-soluble Sulphate	Aggressive attack	Buried concrete	Medium

6.4 Health and Safety

The Principal Contractor should provide an assessment of the appropriate procedures required to protect site workers from the materials likely to be encountered at the site.

The following basic health and safety measures should be adopted as a minimum during the site development works:

- Basic Personal Protective Equipment (PPE) including hard hats, gloves, coveralls, and steel toe-capped boots to be worn at all times;
- Eating, drinking, and smoking to be forbidden except in designated mess areas; and
- Breathing equipment to be available for those working in confined or unventilated spaces.

If ground conditions should differ significantly from those encountered during the intrusive investigation, including the discovery of any visible or odorous contamination, site redevelopment works should be suspended until the suspect material has been inspected and assessed by a competent Geo-Environmental Engineer.

6.5 Waste Disposal

The reuse of soils as engineered fill should be undertaken in accordance with an appropriate Environment Agency licence as defined in the statutory guidance on the 'Definition of Waste' or CL:AIRE Code of Practice. It should be noted that the Made Ground Topsoil, Made Ground and natural strata on site should only be classified as a waste material if they are discarded, there is an intent to discard them or if there is a requirement to discard them.

A level 1 waste characterisation of all the recorded chemical laboratory analysis results would indicate that the Made Ground on site would be classified as Non-Hazardous Waste in the first instance. To determine whether the remaining Made Ground could be further classified as Inert Waste, which is a sub-category of Non-Hazardous, three samples were scheduled for Waste Acceptance Criteria (WAC) analysis.



The analysis results for the samples from WS103 and WS110 at 0.30m bgl indicate the Made Ground is likely to be classified as Inert Waste. However, the sample of Made Ground from WS106 at 0.60m bgl marginally exceeds the Inert Waste threshold for Fluoride and remains as Non-Hazardous Waste. Further confirmatory WAC tests should be scheduled on all excavated materials that are designated for off-site disposal. It may be the case that through consultation with the receiving waste facility, the Made Ground from WS106 may be acceptable as Inert given the very minor and marginal exceedance.

The Made Ground Topsoil should be viewed as a resource or commodity rather than a waste. As the Made Ground Topsoil is suitable for landscaping or for residential gardens in terms of contamination, the Made Ground Topsoil at the site should be stripped and used in the landscaping areas of the proposed development. Any surplus material could be reused on other developments subject to compliance and suitability for reuse assessments. It should be noted that any Topsoil, even if uncontaminated, is unlikely to constitute 'inert waste' due to its high organic matter content.

The natural strata on-site would be classified as default Inert Waste.

6.6 Regulator Liaison

It is recommended that this report be submitted to the Local Authority Environmental Health Officer for review and comment prior to any irrevocable action taking place.

No specific risk has been identified for proposed water supply pipes; however, it is recommended that the results of this assessment are confirmed with the local water supply authority prior to any water supply pipes being installed.

6.7 Environmental Protection

The following environmental protection measures should be adopted as a minimum during the site redevelopment works:

- Covering or dampening of spoil to prevent the spread of dust;
- Containment of surface water runoff to prevent the pollution of surface water drains, sewers etc and;
- Cleaning and washing of boots, vehicle wheels and other equipment at site entry and exit points to prevent the spread of mud.

7 Geotechnical Assessment

7.1 Introduction

Ground conditions across the site are considered to be in line with the anticipated, published geology for the site and surrounding area.

Across the proposed development footprint, a competent natural strata profile was encountered, generally increasing strength with depth.

The recorded SPT 'N' values taken from exploratory locations within proximity of the proposed building footprint are summarised in Table 7.1.



Table 7.1: Uncorrected SPT 'N' Values Within Proximity of the Proposed Building Footprint

Depth (m bgl)	Exploratory Hole					
	WS103	WS104	WS106	WS107	WS109	WS110
1.00	21	15	22	16	15	18
2.00	17	17	17	18	19	17
3.00	19	16	16	18	18	19
4.00	20	19	16	17	18	20
5.00	23	25	24	26	29	30

 Oxford Clay Formation

The recorded SPTs, geotechnical soil analyses and borehole descriptions show a relatively consistent distribution of soil parameters within the natural strata beneath the site. Within the natural strata, 'N' values demonstrate the general presence of competent clays from 1.00m bgl with 'N' values varying between 15 and 21.

7.2 Foundations and Floor Slab

The Made Ground is not considered to be a suitable founding stratum. Therefore, all foundations must extend into the underlying competent Oxford Clay Formation. For the proposed building footprint, conventional shallow strip/trench fill foundations would be viable.

Based on the medium to high strength of the near surface cohesive strata, typically a shallow foundation solution such as a strip or raft foundation would be recommended, however given the presence medium volume change potential soils and the presence of high water demand trees and hedges along the site boundaries, it is likely that the foundations will need to be significantly deepened, locally in two locations in excess of 2.50m bgl.

The client has provided a detailed tree survey undertaken by Arboricultural Constraints & Opportunities Plan (reference 3074-ACOP-JP dated October 2025). A review of this tree survey has indicated a number of high water demand trees and a moderate water demand hedge (elm tree, oak tree, blackthorn) within influencing distance of the northeastern corner of the proposed store footprint. A high water demand hedge (Hawthorn) is also present adjacent to the proposed southeastern corner of the proposed footprint. Based on the presence of medium volume change potential cohesive deposits and the respective mature heights (24m elm and 10m hawthorn), in accordance with NHBC guidance the minimum founding depths for the northeastern and southeastern corners will be in excess of 2.50m bgl and should be designed by a suitably qualified engineer.

For indicative purposes, assuming a foundation depth of 1.00m bgl, a safe allowable bearing capacity within the natural cohesive strata for a 0.60m wide strip/trench fill foundation would be 110kN/m² with 130kN/m² available for a 2.00m by 2.00m pad foundation at a depth of 1.00m bgl. Greater capacities will be available with depth.

7.3 Construction

Anticipated excavation depths should be readily achieved using conventional plant (wheeled back-actor or similar) within the Made Ground and natural strata.



Support must be provided for all excavations requiring entry by site workers in accordance with guidance presented in CIRIA Report 97 'Trenching Practice'.

Groundwater was not encountered during drilling. However, suspected surface water was encountered during the third and fourth monitoring visits after a period of heavy rain. Therefore, a small amount of groundwater / surface water seepage may be encountered within open excavations during the construction of the proposed store foundations. This groundwater ingress should be controlled by simple dewatering techniques, such as sump pumping.

7.4 Concrete Specification

The ground conditions, pH values and water-soluble sulphate concentrations results have been assessed for potential aggressive attack on concrete in accordance with BRE Special Digest 1 'Concrete in Aggressive Ground (2005)'.

Both the Made Ground Topsoil and Made Ground beneath the site falls within Design Sulphate Class DS-1 and ACEC (Aggressive Chemical Environment for Concrete) Class AC-1s. The natural strata from beneath the site falls within Design Sulphate Class DS-3 and ACEC (Aggressive Chemical Environment for Concrete) Class AC-2s.

The specific concrete mixes for the DS Class to be used at the site will be determined, mindful of the ACEC Class, by the site-specific concrete requirements in terms of the required durability and structural performance. These are assessed in terms of the Structural Performance Level (SPL) and any Additional Protection Measures (APM).

7.5 Pavement Design

TRL DCPs were undertaken at four locations within the proposed parking areas. The TRL DCP results are included within Appendix G.

The calculated CBR's from the in-situ test results are as follows:

Table 7.2: Calculated In-situ CBR Values

TRL DCP Location	Depth Range	Strata	Calculated CBR %
DCP01	0mm – 590mm	MGTS, MG and Natural Clay	8
DCP01	590mm – 730mm	Natural Clay	11
DCP01	730mm – 800mm	Natural Clay	15
DCP02	0mm – 375mm	MGTS and Made Ground	2
DCP02	375mm – 445mm	Natural Clay	7
DCP02	445mm – 535mm	Natural Clay	8
DCP02	535mm – 820mm	Natural Clay	9
DCP03	0mm – 500mm	MGTS, MG and Natural Clay	4
DCP03	500mm – 645mm	Natural Clay	7
DCP03	645mm – 815mm	Natural Clay	9
DCP04	0mm – 427mm	MGTS and Made Ground	8
DCP04	427mm – 525mm	Natural Clay	10
DCP04	525mm – 790mm	Natural Clay	11

The on-site observations, subsequent logs and calculated CBR values within near surface soils indicate compositional variability and is likely to require re-compaction or the importation of materials to supplement the eventual design parameters.



The above calculated values should be taken as indicative only and should not be used for deriving a design CBR value. It is recommended that further confirmatory CBR testing will be needed closer to the time of construction to inform the design, whereby the proposed formation levels can be exposed using an excavator and in-situ plate CBR tests can be undertaken.

8 Recommendations

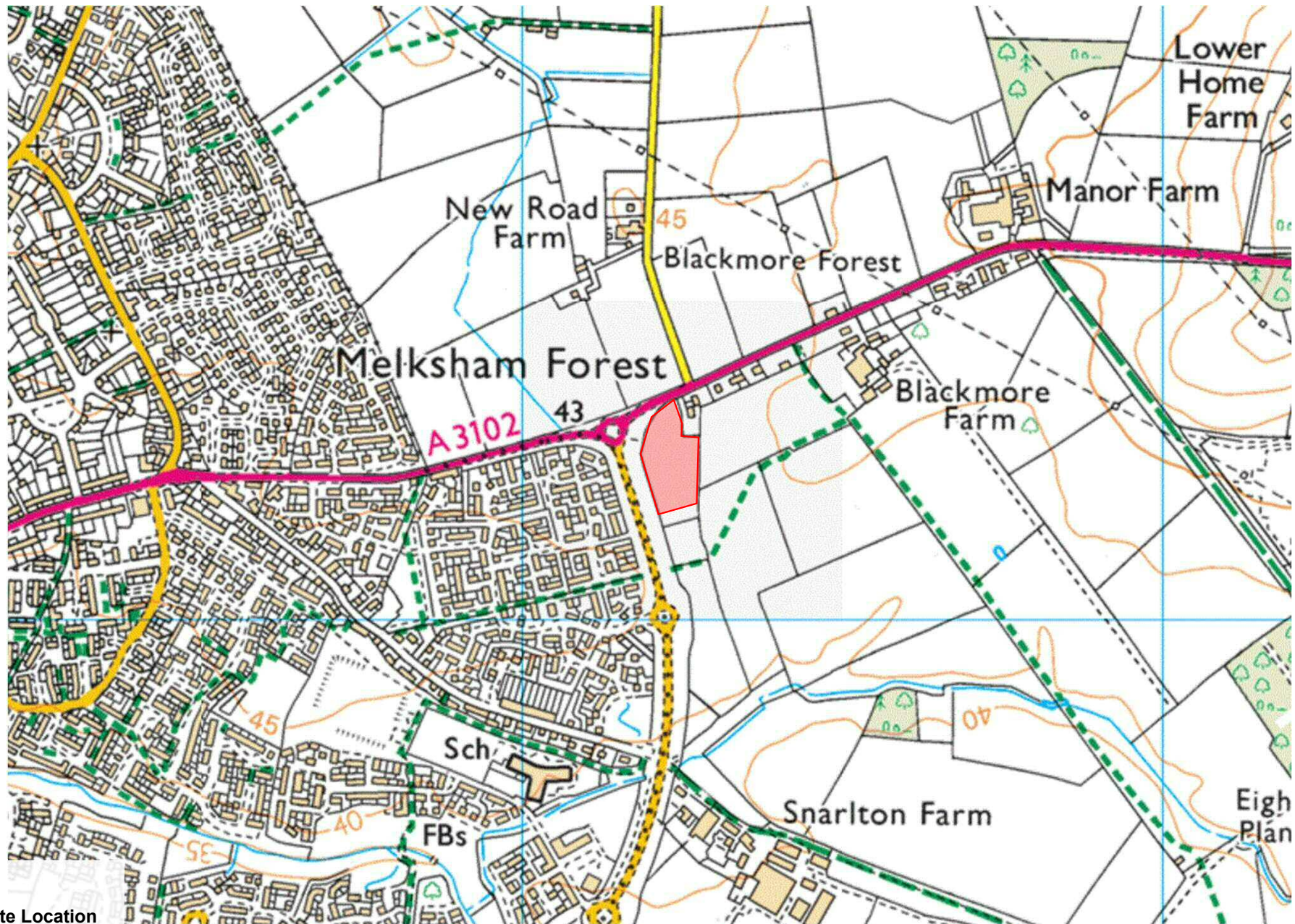
We recommend the following steps be taken to enable the proposed development to progress:

- Submission of this report and assessment to the Local Authority Environmental Health/Contaminated Land Officer and water supply authority.



Drawings





Key

Site Location



OBSIDIAN
GEO-CONSULTING



Project:
Lidl, Eastern Way, Melksham

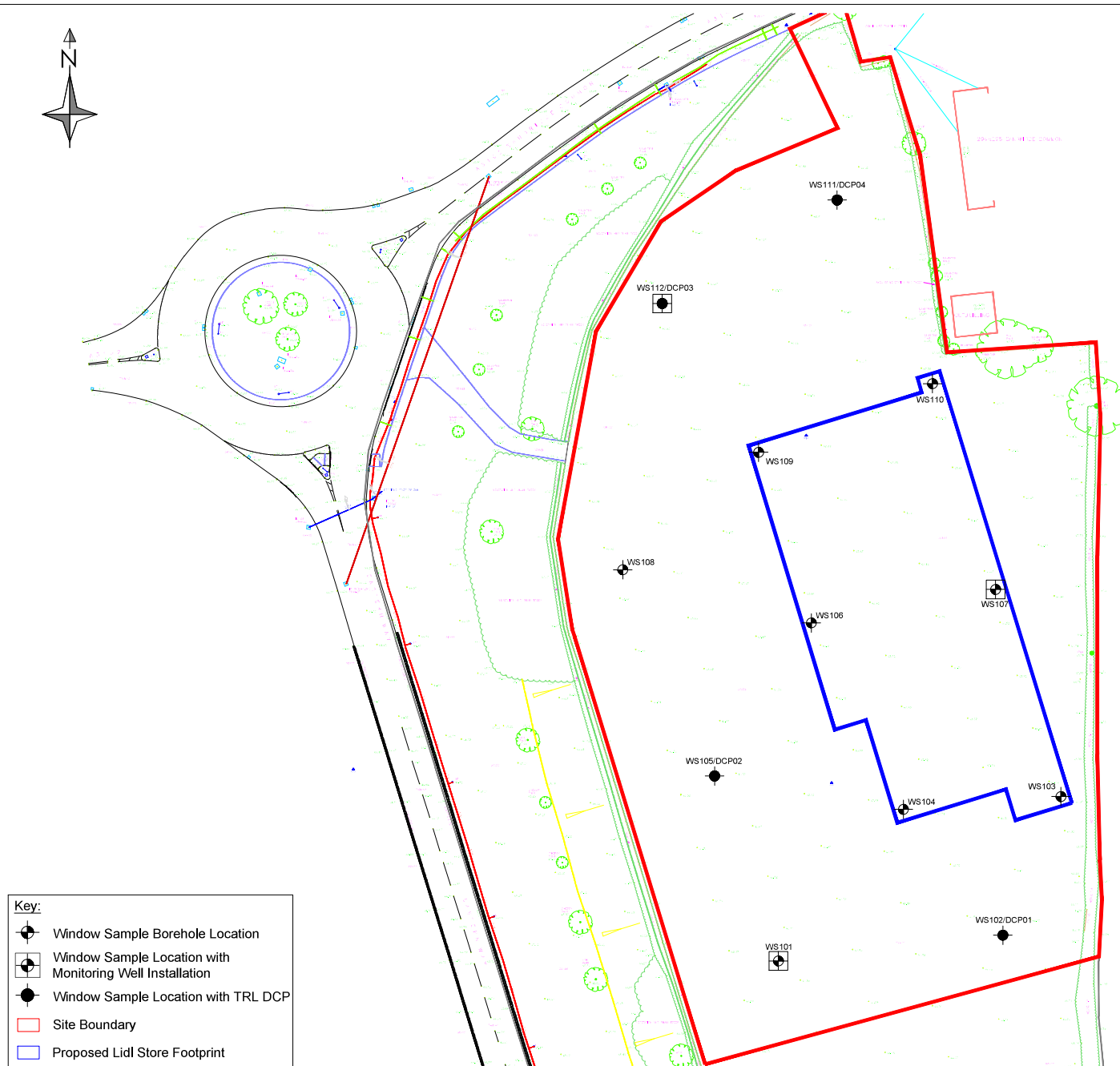
Title:
Site Location Plan

Project No: 24-1905-P

Drawing No: 01

Revision: A

Scale: NTS



Key:	
	Window Sample Borehole Location
	Window Sample Location with Monitoring Well Installation
	Window Sample Location with TRL DCP
	Site Boundary
	Proposed Lidl Store Footprint



PROJECT:
Proposed Lidl Store, Eastern Way, Melksham

TITLE:
Exploratory Hole Location Plan

PROJECT NO:	24-1905-P	DRAWING NO:	02
REVISION:	A	SCALE:	NTS
DRAWN BY:	BM	DATE:	23/10/2025
APPROVED BY:	SMD	DATE:	23/10/2025

Proposed Site Layout
ROC1

ker	Date
W	22.09.25

OVERALL

LIDL SITE AREA (Approx.):	10907 m ²
HOUSING DEVELOPMENT SITE AREA (Approx.):	5377 m ²

BUILDING AREAS - LIDL	
Ancillary Area	225 m ²
Sales Area	1529 m ²
Warehouse Area	430 m ²
GROSS INTERNAL AREA (TOTAL)	2184 m ²

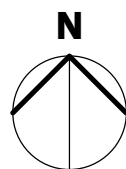
PARKING - LIDL	
Disabled	6
Parent & Child	9
Rapid Electric Vehicle Charging	2
Standard	113
TOTAL	130
(Passive EVC infrastructure to 20% of overall provision)	

Short Stay Bicycles	12
---------------------	----

 Tarmac (Vehicles)	 Tarmac (Pedestrians)
 Block paving, stretcher bond	 Concrete cast in-situ
 Soft landscaping	 Tactile paving

Please Note
Unless stated, no consideration has been given to levels, underground utilities, and/or any other PCI at this stage.

Site boundary shown indicatively only, subject to receipt of further information.



Store Specification
BBS 25 TYPE 15

Drawing Purpose
FEASIBILITY
This drawing has been prepared for the sole purpose of forming part of a feasibility study, and should not be used for any other purpose.



SPACE

Spaceworks, Benton Park Road, Newcastle upon Tyne, NE7 7LX
T: +44 (0)844 800 6660
www.spacearchitects.co.uk

Project
Eastern Way, Melksham

Drawing Title
Proposed Site Plan - Option 2

Project No. 08805	Drawing No. XX-XX-D-A-91005	Status S3	Rev. P05	Scale at A2 1:500
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File Reference: **08805-SPACE-XX-XX-D-A-91005-S3-P05**

This drawing is Copyright - Check all dimensions on site - Inform originator of any discrepancies - Work to figured dimensions only - Do not scale

SANDRIDGE COMMON

Flagpole signage

New pedestrian site access from Sandridge Common also providing safe egress away from building in the event of a fire

Existing footpath / track to be removed

New pedestrian site access based upon Pell Frischmann drawing 105414-PEF-XX-XX-DR-Y-001001 (rev.P1)

500mm ransom strip to eastern boundary

New foot/cycle path
DESIGN BY OTHERS

Provisional location for substation (requirement TBD)

Directional entrance sign

Flagpole signage

New vehicular site access based upon Pell Frischmann drawing 105414-PEF-XX-XX-DR-Y-001001-P06

Hatched area indicates area allocated for housing development

10m

50m

Appendix A

Photographs





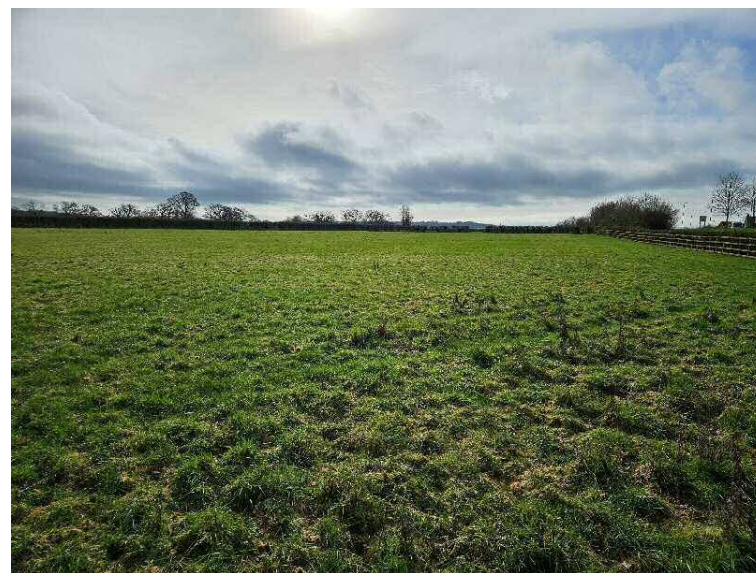
Photograph 1 – A view of the site entrance within the north-western boundary.



Photograph 2 – Since the walkover, a ground investigation has been undertaken by others, and a monitoring well was identified on site.



Photograph 3 – A view northwards across the site.



Photograph 4 – A view southwards across the site.



Photograph 5 – The location of borehole WS101.



Photograph 6 – The core recovery from borehole WS101.



Photograph 7 – The location of borehole WS102.



Photograph 8 – The core recovery from borehole WS102.



Photograph 9 – The location of borehole WS103.



Photograph 10 – The core recovery from borehole WS103.



Photograph 13 – The location of borehole WS104.



Photograph 14 – The core recovery from borehole WS104.



Photograph 15 – The location of borehole WS105.



Photograph 16 – The core recovery from borehole WS105.



Photograph 17 – The location of borehole WS106.



Photograph 18 – The core recovery from borehole WS106.



Photograph 19 – The location of borehole WS107.



Photograph 20 – The core recovery from borehole WS107.



Photograph 21 – The location of borehole WS108.



Photograph 22 – The core recovery from borehole WS108.



Photograph 23 – The location of borehole WS109.



Photograph 24 – The core recovery from borehole WS109.



Photograph 25 – The location of borehole WS110.



Photograph 26 – The core recovery from borehole WS110.



Photograph 23 – The location of borehole WS111.



Photograph 24 – The core recovery from borehole WS111.



Photograph 25 – The location of borehole WS112.



Photograph 26 – The core recovery from borehole WS112.

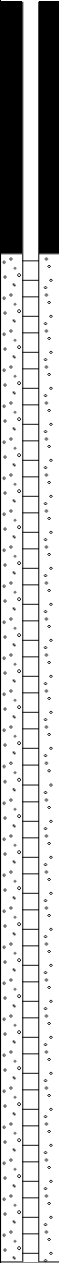
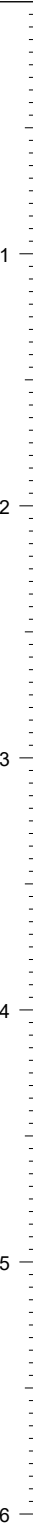
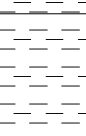
Appendix B

Exploratory Hole Records



Percussion Drilling Log

Project Name: Lidl, Eastern Way		Client: Lidl Great Britain Ltd		Date: 21/10/2025	
Location: Melksham		Contractor: Obsidian Geo-Consulting Ltd			
Project No. : 24-1905-P		Crew Name: Boreworx Ltd		Drilling Equipment: Window Sampling Rig	
Borehole Number WS101	Hole Type WS	Level	Logged By NK	Scale 1:30	Page Number Sheet 1 of 1

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.05	ES		0.10			MADE GROUND TOPSOIL: Grass over dark brown, slightly sandy clay with frequent rootlets.	
		0.20	ES		0.30			MADE GROUND: Brown, gravelly CLAY. Gravel of fine to coarse, subangular to subrounded brick fragments, quartzite and charcoal. Frequent rootlets.	
					0.70			Stiff, brown mottled orange brown and light grey CLAY with occasional rootlets. OXFORD CLAY FORMATION	
		1.00	SPT	N=15 (3,3/3,4,4,4)	1.00			Stiff, greyish brown mottled orange brown CLAY with occasional calcareous concretions. OXFORD CLAY FORMATION	
		1.20	D		1.50			Stiff, brownish grey mottled orange brown CLAY with calcareous concretions. OXFORD CLAY FORMATION	
								Stiff, grey mottled orange brown CLAY with occasional relict rootlets and calcareous concretions. Rare shell fragments. OXFORD CLAY FORMATION	
		2.00	SPT	N=21 (4,4/4,4,6,7)					
		2.20	D						
									
		3.00	SPT	N=21 (3,4/4,5,5,7)					
		3.20	D						
									
		4.00	SPT	N=20 (3,4/4,4,6,6)					
					4.60				
		5.00	SPT	N=23 (4,4/4,6,6,7)	5.00			Stiff, dark grey mottled brown CLAY with rare shell fragments and sand sized selenite crystals. OXFORD CLAY FORMATION	
								End of Borehole at 5.000m	

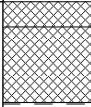
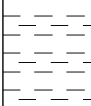
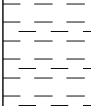
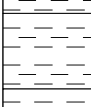
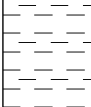
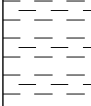
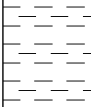
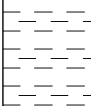
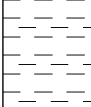
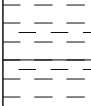
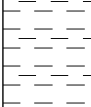
Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation			
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation

Remarks
 1. Window sample position scanned with CAT and Genny. 2. No groundwater encountered. 3. Gas and groundwater monitoring well installed as detailed above.

Remarks	
1. Window sample position scanned with CAT and Genny. 2. No groundwater encountered. 3. Borehole backfilled with arisings upon completion.	

Percussion Drilling Log

Project Name: Lidl, Eastern Way		Client: Lidl Great Britain Ltd		Date: 21/10/2025	
Location: Melksham		Contractor: Obsidian Geo-Consulting Ltd			
Project No. : 24-1905-P		Crew Name: Boreworx Ltd		Drilling Equipment: Window Sampling Rig	
Borehole Number WS103	Hole Type WS	Level	Logged By NK	Scale 1:30	Page Number Sheet 1 of 1

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.05	ES		0.10			MADE GROUND TOPSOIL: Grass over dark brown, slightly sandy clay with frequent rootlets.	1
		0.30	ES		0.40			MADE GROUND: Brown gravelly clay. Gravel of fine to coarse, subangular brick fragments and charcoal. Frequent rootlets.	
		1.00	SPT	N=21 (4,4/4,5,6,6)	1.30			Stiff, grey mottled brown becoming orange brown CLAY with occasional rootlets and calcareous concretions. OXFORD CLAY FORMATION	
		1.10	D		1.60			Stiff, grey slightly mottled orange brown CLAY with frequent calcareous concretions. OXFORD CLAY FORMATION	
		1.50	D					Stiff, grey mottled orange brown CLAY with occasional calcareous concretions, shell fragments and relict rootlets. Coarse gravel sized selenite crystals from 2.50m. OXFORD CLAY FORMATION	2
		2.00	SPT	N=17 (3,3/4,4,4,5)					
		2.10	D						3
		2.50	D						
		3.00	SPT	N=19 (4,4/4,4,5,6)					
		4.00	SPT	N=20 (4,4/5,5,5,5)	4.00			Stiff, brown mottled dark grey CLAY with coarse gravel sized selenite crystals. OXFORD CLAY FORMATION	4
		5.00	SPT	N=23 (4,4/5,5,6,7)	5.00				
								End of Borehole at 5.000m	5
									6

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation			
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation

Remarks
 1. Window sample position scanned with CAT and Genny. 2. No groundwater encountered. 3. Borehole backfilled with arisings upon completion.

Percussion Drilling Log

Project Name: Lidl, Eastern Way		Client: Lidl Great Britain Ltd		Date: 21/10/2025	
Location: Melksham		Contractor: Obsidian Geo-Consulting Ltd			
Project No. : 24-1905-P		Crew Name: Boreworx Ltd		Drilling Equipment: Window Sampling Rig	
Borehole Number WS104	Hole Type WS	Level	Logged By NK	Scale 1:30	Page Number Sheet 1 of 1

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.05	ES		0.10			MADE GROUND TOPSOIL: Grass over dark brown, slightly sandy clay with frequent rootlets.	
		0.20	ES		0.30			MADE GROUND: Brown, gravelly clay. Gravel of fine to coarse, subangular brick fragments.	
					0.50			Stiff, brown mottled orange brown and grey CLAY with occasional rootlets.	
		0.70	D		0.80			OXFORD CLAY FORMATION	
								Stiff, brown mottled orange brown CLAY with occasional rootlets.	
		1.00	SPT	N=15 (3,3/3,4,4,4)				OXFORD CLAY FORMATION	1
		1.30	D					Stiff, grey mottled orange brown CLAY with frequent calcareous concretions and occasional sand sized selenite crystals. Some relict rootlets and shell fragments from 2.00m.	
								OXFORD CLAY FORMATION	
		2.00	SPT	N=17 (3,3/3,4,5,5)					2
		2.30	D						
		3.00	SPT	N=16 (3,3/3,3,4,6)	3.00			Stiff, brown mottled dark grey CLAY with occasional sand sized selenite crystals and shell fragments.	3
								OXFORD CLAY FORMATION	
		4.00	SPT	N=19 (3,4/4,4,5,6)					4
					4.50			Stiff, dark grey mottled brown CLAY with occasional shell fragments.	
								OXFORD CLAY FORMATION	
		5.00	SPT	N=25 (4,4/5,5,7,8)	5.00				5
								End of Borehole at 5.000m	
									6

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation			
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation

Remarks
 1. Window sample position scanned with CAT and Genny. 2. No groundwater encountered. 3. Borehole backfilled with arisings upon completion.

Percussion Drilling Log

Project Name: Lidl, Eastern Way		Client: Lidl Great Britain Ltd		Date: 21/10/2025	
Location: Melksham		Contractor: Obsidian Geo-Consulting Ltd			
Project No. : 24-1905-P		Crew Name: Boreworx Ltd		Drilling Equipment: Window Sampling Rig	
Borehole Number WS105	Hole Type WS	Level	Logged By NK	Scale 1:30	Page Number Sheet 1 of 1

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.05	ES		0.10			MADE GROUND TOPSOIL: Grass over dark brown, slightly sandy clay with frequent rootlets.	1
					0.30			MADE GROUND: Brown, gravelly clay. Gravel of fine to coarse, subangular brick fragments.	
		0.60	ES		0.70			Stiff, grey mottled brown and orange brown CLAY. Occasional iron nodules. OXFORD CLAY FORMATION	
		1.00	SPT	N=16 (3,3/4,4,4,4)	1.00			Stiff, grey mottled orange brown CLAY with calcareous concretions. OXFORD CLAY FORMATION	
		1.60	D					Stiff, grey mottled orange brown CLAY with calcareous concretions and relict rootlets. OXFORD CLAY FORMATION	
		2.00	SPT	N=17 (3,4/3,4,5,5)	2.00			Stiff, dark grey mottled brown CLAY with sand sized selenite crystals and occasional shell fragments. OXFORD CLAY FORMATION	
		2.60	D						
		3.00	SPT	N=24 (4,4/5,5,6,8)	3.00			Stiff, brown mottled dark grey CLAY with coarse gravel sized selenite crystals and shell fragments. OXFORD CLAY FORMATION	
		4.00	SPT	N=19 (3,3/4,4,5,6)					
		4.60	D		4.50			Stiff, dark grey mottled brown CLAY with coarse gravel sized selenite crystals and occasional shell fragments. OXFORD CLAY FORMATION	
		5.00	SPT	N=27 (5,5/5,6,7,9)	5.00			End of Borehole at 5.000m	
									6

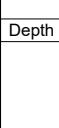
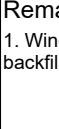
Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation			
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation

Remarks
 1. Window sample position scanned with CAT and Genny. 2. No groundwater encountered. 3. Borehole backfilled with arisings upon completion.



Percussion Drilling Log

Project Name: Lidl, Eastern Way		Client: Lidl Great Britain Ltd		Date: 21/10/2025	
Location: Melksham		Contractor: Obsidian Geo-Consulting Ltd			
Project No. : 24-1905-P		Crew Name: Boreworx Ltd		Drilling Equipment: Window Sampling Rig	
Borehole Number WS106	Hole Type WS	Level	Logged By NK	Scale 1:30	Page Number Sheet 1 of 1

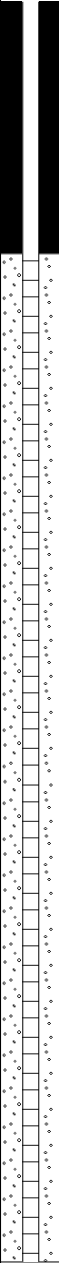
Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.05	ES		0.10			MADE GROUND TOPSOIL: Grass over dark brown, slightly sandy clay with frequent rootlets.	
					0.30			MADE GROUND: Brown gravelly clay. Gravel of fine to coarse, subangular brick fragments. Occasional rootlets.	
		0.60	ES		0.50			MADE GROUND: Grey mottled orange brown clay. Occasional iron nodules.	
					0.80			MADE GROUND: Orange brown mottled brown, slightly gravelly clay. Gravel of fine to coarse, subangular brick fragments.	
		1.00	SPT	N=22 (4,4/4,6,6,6)				Stiff, grey mottled orange brown CLAY with calcareous concretions, iron nodules and sand sized selenite crystals. Wet pocket at 2.20m.	1
		1.30	D					OXFORD CLAY FORMATION	
									
		2.00	SPT	N=17 (4,4/4,4,4,5)					2
		2.30	D						
		2.60	D						
		3.00	SPT	N=16 (2,3/3,3,5,5)	3.00				
		3.30	D						
									
									
									
									
									
									
									
									
		4.00	SPT	N=16 (3,3/3,4,4,5)					4
									
									
									
									
									
									
									
									
									
		5.00	SPT	N=24 (5,5/5,6,6,7)	5.00				5
									6

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation			
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation

Remarks 1. Window sample position scanned with CAT and Genny. 2. Groundwater encountered at 4.00m bgl during drilling. 3. Borehole backfilled with arisings upon completion.										
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Percussion Drilling Log

Project Name: Lidl, Eastern Way		Client: Lidl Great Britain Ltd		Date: 21/10/2025	
Location: Melksham		Contractor: Obsidian Geo-Consulting Ltd			
Project No. : 24-1905-P		Crew Name: Boreworx Ltd		Drilling Equipment: Window Sampling Rig	
Borehole Number WS107	Hole Type WS	Level	Logged By NK	Scale 1:30	Page Number Sheet 1 of 1

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.05	ES		0.10			MADE GROUND TOPSOIL: Grass over dark brown, slightly sandy clay with frequent rootlets.	
		0.30	ES		0.50			MADE GROUND: Brown to orange brown, gravelly clay. Gravel of fine to coarse, subangular brick fragments and charcoal. Occasional rootlets.	
								Stiff, grey mottled orange brown CLAY with calcareous concretions, relict rootlets and occasional sand sized selenite crystals. OXFORD CLAY FORMATION	
		1.00	SPT	N=16 (3,3/3,4,4,5)					1
		1.10	D						
		1.50	D						
		2.00	SPT	N=18 (3,3/3,4,5,6)					2
		2.10	D						
		2.50	D						
		3.00	SPT	N=18 (3,3/3,4,5,6)	3.00			Stiff, brown mottled dark grey CLAY with occasional sand sized selenite crystals, shell fragments and iron nodules/staining. OXFORD CLAY FORMATION	3
		3.20	D						
		4.00	SPT	N=17 (3,3/4,4,4,5)					4
					4.50			Stiff, dark grey mottled brown CLAY with coarse gravel sized selenite crystals and shell fragments. OXFORD CLAY FORMATION	
		5.00	SPT	N=26 (5,5/5,6,7,8)	5.00			End of Borehole at 5.000m	5
									6

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation			
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation

Remarks
 1. Window sample position scanned with CAT and Genny. 2. No groundwater encountered. 3. Gas and groundwater monitoring well installed as detailed above.

Percussion Drilling Log

Project Name: Lidl, Eastern Way		Client: Lidl Great Britain Ltd		Date: 21/10/2025	
Location: Melksham		Contractor: Obsidian Geo-Consulting Ltd			
Project No. : 24-1905-P		Crew Name: Boreworx Ltd		Drilling Equipment: Window Sampling Rig	
Borehole Number WS108	Hole Type WS	Level	Logged By NK	Scale 1:30	Page Number Sheet 1 of 1

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.05	ES		0.10			MADE GROUND TOPSOIL: Grass over dark brown, slightly sandy clay with frequent rootlets.	1
		0.30	ES		0.50			MADE GROUND: Brown with some orange brown, gravelly clay. Gravel of fine to coarse, subangular brick fragments and charcoal. Occasional rootlets.	
					0.90			Stiff, brown mottled orange brown and grey CLAY. Occasional rootlets, calcareous concretions and iron nodules. OXFORD CLAY FORMATION	
		1.00	SPT	N=15 (3,3/3,4,4,4)				Stiff, grey mottled orange brown CLAY with calcareous concretions, sand sized selenite crystals and relict rootlets. OXFORD CLAY FORMATION	
		1.20	D						
									
		2.00	SPT	N=16 (4,4/3,4,4,5)					
		2.20	D						
									
		3.00	SPT	N=23 (4,4/4,6,6,7)	3.00			Stiff, brown mottled dark grey CLAY with coarse gravel sized selenite crystals. OXFORD CLAY FORMATION	
		3.20	D						
									
		4.00	SPT	N=23 (4,4/4,6,6,7)					
					4.50			Stiff, dark grey mottled brown CLAY with coarse gravel sized selenite crystals and shell fragments. OXFORD CLAY FORMATION	
									
		5.00	SPT	N=28 (4,4/6,7,7,8)	5.00			End of Borehole at 5.000m	5
									6

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation			
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation

Remarks
 1. Window sample position scanned with CAT and Genny. 2. No groundwater encountered. 3. Borehole backfilled with arisings upon completion.

Percussion Drilling Log

Project Name: Lidl, Eastern Way		Client: Lidl Great Britain Ltd		Date: 22/10/2025	
Location: Melksham		Contractor: Obsidian Geo-Consulting Ltd			
Project No. : 24-1905-P		Crew Name: Boreworx Ltd		Drilling Equipment: Window Sampling Rig	
Borehole Number WS109	Hole Type WS	Level	Logged By NK	Scale 1:30	Page Number Sheet 1 of 1

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.10	ES		0.20			MADE GROUND TOPSOIL: Grass over dark brown, slightly sandy clay with frequent rootlets.	1
		0.40	ES		0.50			MADE GROUND: Brown, gravelly clay. Gravel of fine to coarse, subangular brick fragments. Occasional rootlets.	
					0.80			Stiff, brown mottled orange brown CLAY with occasional rootlets. OXFORD CLAY FORMATION	
		1.00	SPT	N=15 (4,4/3,4,4,4)	1.00			Stiff, brownish grey mottled orange brown CLAY. OXFORD CLAY FORMATION	
		1.10	D					Stiff, grey mottled orange brown CLAY with calcareous concretions, sand sized selenite crystals and relict rootlets. OXFORD CLAY FORMATION	
		1.60	D						2
		2.00	SPT	N=19 (3,3/4,5,5,5)	2.00				
		2.10	D					Stiff, brown mottled grey CLAY with occasional relict rootlets and shell fragments. Some calcareous concretions. OXFORD CLAY FORMATION	
		2.50	D						3
		3.00	SPT	N=18 (4,3/4,4,5,5)					
		3.10	D						
		4.00	SPT	N=18 (3,3/4,4,5,5)					4
					4.50				
								Stiff, brown mottled dark grey CLAY with rare sand sized selenite crystals and shell fragments. OXFORD CLAY FORMATION	5
		5.00	SPT	N=29 (6,6/6,7,8,8)	5.00			End of Borehole at 5.000m	

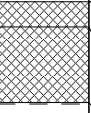
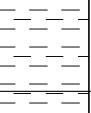
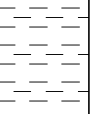
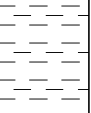
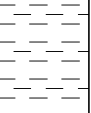
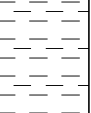
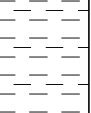
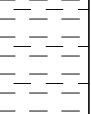
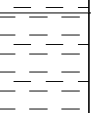
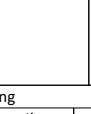
Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation			
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation

Remarks
 1. Window sample position scanned with CAT and Genny. 2. No groundwater encountered. 3. Borehole backfilled with arisings upon completion.



Percussion Drilling Log

Project Name: Lidl, Eastern Way		Client: Lidl Great Britain Ltd		Date: 22/10/2025	
Location: Melksham		Contractor: Obsidian Geo-Consulting Ltd			
Project No. : 24-1905-P		Crew Name: Boreworx Ltd		Drilling Equipment: Window Sampling Rig	
Borehole Number WS110	Hole Type WS	Level	Logged By NK	Scale 1:30	Page Number Sheet 1 of 1

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.05	ES		0.10			MADE GROUND TOPSOIL: Grass over dark brown, slightly sandy clay with frequent rootlets.	1
		0.30	ES		0.40			MADE GROUND: Brown, gravelly clay. Gravel of fine to coarse, subangular brick fragments. Occasional rootlets.	
					0.80			Stiff, brown mottled orange brown CLAY with occasional rootlets. OXFORD CLAY FORMATION	
		1.00	SPT	N=18 (4,4/4,4,5,5)	1.00			Stiff, brown mottled grey CLAY. OXFORD CLAY FORMATION	
		1.20	D					Stiff, grey mottled orange brown CLAY with calcareous concretions and sand sized selenite crystals. Rare relict rootlets and shell fragments, which increase in number from 2.00m. OXFORD CLAY FORMATION	
		1.70	D						
		2.00	SPT	N=17 (3,4/3,4,5,5)					
		2.20	D						
		2.70	D						
		3.00	SPT	N=19 (3,3/4,4,5,6)	3.00			Stiff, brown mottled grey CLAY with selenite crystals and shell fragments. OXFORD CLAY FORMATION	
		3.50	D						
		4.00	SPT	N=20 (4,4/4,5,5,6)					
		4.50			4.50				
		4.70	D					Stiff, dark grey mottled brown CLAY with shell fragments. OXFORD CLAY FORMATION	
		5.00	SPT	N=30 (5,5/6,7,8,9)	5.00			End of Borehole at 5.000m	

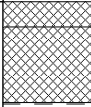
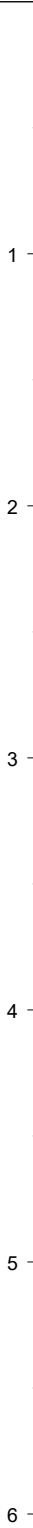
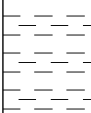
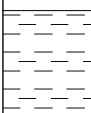
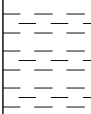
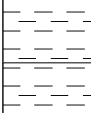
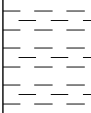
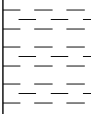
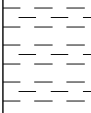
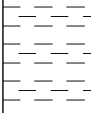
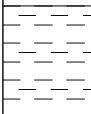
Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation			
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation

Remarks
 1. Window sample position scanned with CAT and Genny. 2. No groundwater encountered. 3. Borehole backfilled with arisings upon completion.



Percussion Drilling Log

Project Name: Lidl, Eastern Way		Client: Lidl Great Britain Ltd		Date: 22/10/2025	
Location: Melksham		Contractor: Obsidian Geo-Consulting Ltd			
Project No. : 24-1905-P		Crew Name: Boreworx Ltd		Drilling Equipment: Window Sampling Rig	
Borehole Number WS111	Hole Type WS	Level	Logged By NK	Scale 1:30	Page Number Sheet 1 of 1

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.05	ES		0.10			MADE GROUND TOPSOIL: Grass over dark brown, slightly sandy clay with frequent rootlets.	
		0.30	ES		0.40			MADE GROUND: Brown, gravelly clay. Gravel of fine to coarse, subangular brick fragments, charcoal and quartzite.	
								Stiff, brown mottled orange brown CLAY with occasional rootlets. OXFORD CLAY FORMATION	
		1.00	SPT	N=17 (3,4/4,4,4,5)	0.90			Stiff, grey mottled orange brown CLAY with calcareous concretions, sand sized selenite crystals and relict rootlets. OXFORD CLAY FORMATION	
		1.50	D						
		2.00	SPT	N=15 (3,3/4,3,4,4)	2.00			Stiff, grey mottled brown CLAY with relict rootlets and shell fragments. Occasional sand sized selenite crystals and iron nodules. OXFORD CLAY FORMATION	
		2.50	D						
		3.00	SPT	N=21 (5,4/4,5,6,6)					
		3.50	D						
		4.00	SPT	N=19 (3,4/4,4,5,6)	4.00			Stiff, brown mottled dark grey CLAY with medium to coarse gravel sized selenite crystals and shell fragments. OXFORD CLAY FORMATION	
		5.00	SPT	N=30 (5,6/6,7,8,9)	5.00			End of Borehole at 5.000m	5
									6

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation			
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation

Remarks
 1. Window sample position scanned with CAT and Genny. 2. No groundwater encountered. 3. Borehole backfilled with arisings upon completion.



Project Name: Lidl, Eastern Way

Location: Melksham

Project No. : 24-1905-P

Client: Lidl Great Britain Ltd

Contractor: Obsidian Geo-Consulting Ltd

Crew Name: Boreworx Ltd

Date: 22/10/2025

Drilling Equipment: Window Sampling Rig

Borehole Number
WS112

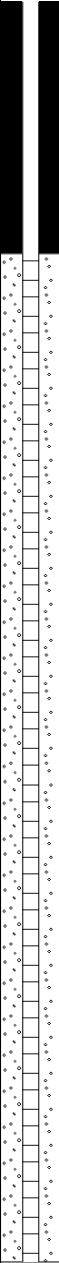
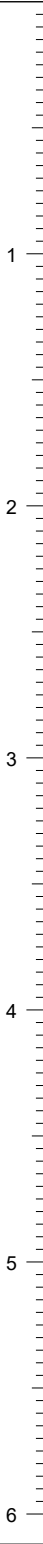
Hole Type
WS

Level

Logged By
NK

Scale
1:30

Page Number
Sheet 1 of 1

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.05	ES		0.10	  	MADE GROUND TOPSOIL: Grass over dark brown, slightly sandy clay with frequent rootlets.		
		0.20	ES		0.30		MADE GROUND: Brown, gravelly clay. Gravel of fine to coarse, subangular brick fragments.		
				0.70	Stiff, orange brown mottled brown with some grey, CLAY with occasional rootlets. OXFORD CLAY FORMATION				
		1.00	SPT	N=13 (3,4/3,3,4,3)			Stiff, grey mottled orange brown CLAY with calcareous concretions, sand sized selenite crystals and relict rootlets. OXFORD CLAY FORMATION		1
		1.20	D						
		2.00	SPT	N=20 (4,4/4,5,5,6)					2
		2.20	D						
		3.00	SPT	N=22 (4,3/5,5,6,6)	3.00		Stiff, brown mottled dark grey CLAY with medium to coarse gravel sized selenite crystals and shell fragments. OXFORD CLAY FORMATION		3
		3.20	D						
		4.00	SPT	N=15 (3,4/3,3,4,5)					4
		4.50	D		4.40		Stiff, dark grey mottled orange brown CLAY with medium gravel sized selenite crystals and shell fragments. OXFORD CLAY FORMATION		
		5.00	SPT	N=29 (5,5/6,7,7,9)	5.00		End of Borehole at 5.000m		5
									6

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation			
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation

Remarks

1. Window sample position scanned with CAT and Genny. 2. No groundwater encountered. 3. Gas and groundwater monitoring well installed as detailed above.



Appendix C

Chemical Laboratory Analysis Results



Obsidian Geo-Consulting Ltd
Unit C4
Castle Vale Enterprise Park
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West Midlands
B35 6LJ

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Analytical Report Number : 25-057957

Project / Site name:	Eastern Way, Melksham	Samples received on:	24/10/2025
Your job number:	24-1905-P	Samples instructed on/ Analysis started on:	24/10/2025
Your order number:	PO-01976	Analysis completed by:	05/11/2025
Report Issue Number:	1	Report issued on:	05/11/2025
Samples Analysed:	21 soil samples - 3 2stage samples		



Signed:

Claire Bancroft
Customer Service and Accounts Support
For & on behalf of i2 Analytical Ltd.

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

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

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

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting
air	- once the analysis is complete

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

Retention period for records and reports is minimum 6 years from the date of issue of the final report.
Some records may be kept for longer according to other legal/best practice requirements.

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

Analytical Report Number: 25-057957
Project / Site name: Eastern Way, Melksham
Your Order No: PO-01976

Lab Sample Number	729127	729128	729129	729130	729131
Sample Reference	WS101	WS101	WS102	WS107	WS108
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	0.05	0.20	0.20	0.05	0.05
Date Sampled	21/10/2025	21/10/2025	21/10/2025	21/10/2025	21/10/2025
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	11	13	16	13	17
Total mass of sample received	kg	0.1	NONE	0.6	1.1	0.7	0.6	0.7

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	MBI	MBI	MBI	MBI	MBI
Analysis completed	N/A	N/A	N/A	31/10/2025	31/10/2025	31/10/2025	31/10/2025	31/10/2025

General Inorganics

pH (L005B)	pH Units	N/A	MCERTS	-	-	-	-	-
pH (L099)	pH Units	N/A	MCERTS	6.4	6.4	6.4	6	6.6
Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	57	73	28	25	60
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	28.4	36.3	14	12.5	30
Water Soluble SO ₄ 16hr extraction (2:1)	mg/l	1.25	MCERTS	-	-	-	-	-
Sulphide	mg/kg	1	MCERTS	3.2	3.2	2.3	1.8	< 1.0
Organic Matter (automated)	%	0.1	MCERTS	11	2.6	4.3	-	-
Total Organic Carbon (TOC) – Manual	%	0.1	MCERTS	-	-	-	-	-
Loss on Ignition @ 450°C	%	0.2	MCERTS	-	-	-	-	-
Acid Neutralisation Capacity	±/- mmol/kg	-9999	NONE	-	-	-	-	-

Total Phenols

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

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	0.07	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	0.08	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	0.08	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	0.77	< 0.05	< 0.05	0.11	0.06
Anthracene	mg/kg	0.05	MCERTS	0.23	< 0.05	< 0.05	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	1.5	< 0.05	0.07	0.31	0.27
Pyrene	mg/kg	0.05	MCERTS	1.3	< 0.05	0.06	0.29	0.28
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.72	< 0.05	< 0.05	0.18	0.27
Chrysene	mg/kg	0.05	MCERTS	0.66	< 0.05	< 0.05	0.2	0.2
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	0.69	< 0.05	< 0.05	0.26	0.44
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	0.37	< 0.05	< 0.05	0.09	0.13
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.62	< 0.05	< 0.05	0.2	0.28
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.28	< 0.05	< 0.05	0.1	0.14
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.06	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.29	< 0.05	< 0.05	0.1	0.18
Coronene	mg/kg	0.05	NONE	-	-	-	-	-

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	7.65	< 0.80	< 0.80	1.84	2.27
Total WAC-17 PAHs	mg/kg	0.85	NONE	-	-	-	-	-

Analytical Report Number: 25-057957
Project / Site name: Eastern Way, Melksham
Your Order No: PO-01976

Lab Sample Number	729127	729128	729129	729130	729131
Sample Reference	WS101	WS101	WS102	WS107	WS108
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	0.05	0.20	0.20	0.05	0.05
Date Sampled	21/10/2025	21/10/2025	21/10/2025	21/10/2025	21/10/2025
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	8.9	17	16	11	13
Boron (water soluble)	mg/kg	0.2	MCERTS	0.4	0.6	2	1.9	1.9
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	0.2
Chromium (hexavalent) Low Level	mg/kg	1.2	NONE	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	22	37	40	24	44
Copper (aqua regia extractable)	mg/kg	1	MCERTS	14	17	14	16	15
Lead (aqua regia extractable)	mg/kg	1	MCERTS	30	35	38	35	42
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	0.8	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	11	26	23	13	20
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	1	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	60	76	82	66	96

Petroleum Hydrocarbons

TPHCWG - Aliphatic >EC5 - EC6 _{HS_1D_AL}	mg/kg	0.01	MCERTS	-	-	< 0.010	-	-
TPHCWG - Aliphatic >EC6 - EC8 _{HS_1D_AL}	mg/kg	0.01	MCERTS	-	-	< 0.010	-	-
TPHCWG - Aliphatic >EC8 - EC10 _{HS_1D_AL}	mg/kg	0.01	MCERTS	-	-	< 0.010	-	-
TPHCWG - Aliphatic >EC10 - EC12 _{EH_CU_1D_AL}	mg/kg	1	MCERTS	-	-	< 1.0	-	-
TPHCWG - Aliphatic >EC12 - EC16 _{EH_CU_1D_AL}	mg/kg	2	MCERTS	-	-	< 2.0	-	-
TPHCWG - Aliphatic >EC16 - EC21 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	-	-	< 8.0	-	-
TPHCWG - Aliphatic >EC21 - EC35 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	-	-	< 8.0	-	-
TPHCWG - Aliphatic >EC5 - EC35 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	-	-	< 10	-	-

TPHCWG - Aromatic >EC5 - EC7 _{HS_1D_AR}	mg/kg	0.01	MCERTS	-	-	< 0.010	-	-
TPHCWG - Aromatic >EC7 - EC8 _{HS_1D_AR}	mg/kg	0.01	MCERTS	-	-	< 0.010	-	-
TPHCWG - Aromatic >EC8 - EC10 _{HS_1D_AR}	mg/kg	0.02	MCERTS	-	-	< 0.020	-	-
TPHCWG - Aromatic >EC10 - EC12 _{EH_CU_1D_AR}	mg/kg	1	MCERTS	-	-	< 1.0	-	-
TPHCWG - Aromatic >EC12 - EC16 _{EH_CU_1D_AR}	mg/kg	2	MCERTS	-	-	< 2.0	-	-
TPHCWG - Aromatic >EC16 - EC21 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	-	-	< 10	-	-
TPHCWG - Aromatic >EC21 - EC35 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	-	-	< 10	-	-
TPHCWG - Aromatic >EC5 - EC35 _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	-	-	< 10	-	-

Mineral Oil (EC10 - EC40) _{EH_CU_1D_AL}	mg/kg	10	NONE	-	-	-	-	-
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VOCs

MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	MCERTS	-	-	< 5.0	-	-
Benzene	µg/kg	5	MCERTS	-	-	< 5.0	-	-
Toluene	µg/kg	5	MCERTS	-	-	< 5.0	-	-
Ethylbenzene	µg/kg	5	MCERTS	-	-	< 5.0	-	-
p & m-Xylene	µg/kg	8	MCERTS	-	-	< 8.0	-	-
o-Xylene	µg/kg	5	MCERTS	-	-	< 5.0	-	-

Total BTEX	µg/kg	10	MCERTS	-	-	-	-	-
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Analytical Report Number: 25-057957
Project / Site name: Eastern Way, Melksham
Your Order No: PO-01976

Lab Sample Number	729127	729128	729129	729130	729131
Sample Reference	WS101	WS101	WS102	WS107	WS108
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	0.05	0.20	0.20	0.05	0.05
Date Sampled	21/10/2025	21/10/2025	21/10/2025	21/10/2025	21/10/2025
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

PCBs by GC-MS

PCB Congener 28	mg/kg	0.001	MCERTS	-	-	-	-	-
PCB Congener 52	mg/kg	0.001	MCERTS	-	-	-	-	-
PCB Congener 101	mg/kg	0.001	MCERTS	-	-	-	-	-
PCB Congener 118	mg/kg	0.001	MCERTS	-	-	-	-	-
PCB Congener 138	mg/kg	0.001	MCERTS	-	-	-	-	-
PCB Congener 153	mg/kg	0.001	MCERTS	-	-	-	-	-
PCB Congener 180	mg/kg	0.001	MCERTS	-	-	-	-	-
Total PCBs	mg/kg	0.007	MCERTS	-	-	-	-	-

Pesticides (GC-MS)

Alpha-BHC (Benzene Hexachloride)	µg/kg	10	NONE	< 10	-	-	-	-
Alachlor	µg/kg	10	NONE	< 10	-	-	-	-
Bifenthrin	µg/kg	10	NONE	< 10	-	-	-	-
Cyhalothrin (Lambda)	µg/kg	10	NONE	< 10	-	-	-	-
Gamma-BHC (Lindane, gamma HCH)	µg/kg	10	NONE	< 10	-	-	-	-
Omethoate	µg/kg	10	NONE	< 10	-	-	-	-
1,2,3-Trichlorobenzene	µg/kg	10	NONE	< 10	-	-	-	-
1,3,5-Trichlorobenzene	µg/kg	10	NONE	< 10	-	-	-	-
2,6-Dichlorobenzonitrile	µg/kg	10	NONE	< 10	-	-	-	-
Dimethylvinphos	µg/kg	10	NONE	< 10	-	-	-	-
Demeton-O	µg/kg	10	NONE	< 10	-	-	-	-
Demeton-S	µg/kg	10	NONE	< 10	-	-	-	-
Endrin Aldehyde	µg/kg	10	NONE	< 10	-	-	-	-
Endrin Ketone	µg/kg	10	NONE	< 10	-	-	-	-
Hexachlorobutadiene	µg/kg	10	NONE	< 10	-	-	-	-
Phosphamidon (Sum)	µg/kg	10	NONE	< 10	-	-	-	-
1,2,4,5-Tetrachlorobenzene	µg/kg	10	NONE	< 10	-	-	-	-
Cis-Permethrin	µg/kg	10	NONE	< 10	-	-	-	-
Endosulfan sulfate	µg/kg	10	NONE	< 10	-	-	-	-
Etrinfos	µg/kg	10	NONE	< 10	-	-	-	-
Fenvalerate (Sum)	µg/kg	10	NONE	< 10	-	-	-	-
Hexachlorobenzene	µg/kg	10	NONE	< 10	-	-	-	-
Mevinphos, E+Z	µg/kg	10	NONE	< 10	-	-	-	-
Pentachlorobenzene	µg/kg	10	NONE	< 10	-	-	-	-
Pirimiphos-ethyl	µg/kg	10	NONE	< 10	-	-	-	-
Propetamphos	µg/kg	10	NONE	< 10	-	-	-	-
Tecnazene	µg/kg	10	NONE	< 10	-	-	-	-
Triadimefon	µg/kg	10	NONE	< 10	-	-	-	-
Trans-Permethrin	µg/kg	10	NONE	< 10	-	-	-	-
Aldrin	µg/kg	10	NONE	< 10	-	-	-	-
Azinphos-methyl	µg/kg	10	NONE	< 10	-	-	-	-
Beta-BHC	µg/kg	10	NONE	< 10	-	-	-	-
Cis-Chlordane	µg/kg	10	NONE	< 10	-	-	-	-
Chlorfenvinphos	µg/kg	10	NONE	< 10	-	-	-	-
Chlorpyrifos	µg/kg	10	NONE	< 10	-	-	-	-
Chlorothalonil	µg/kg	10	NONE	< 10	-	-	-	-

Analytical Report Number: 25-057957
Project / Site name: Eastern Way, Melksham
Your Order No: PO-01976

Lab Sample Number				729127	729128	729129	729130	729131
Sample Reference				WS101	WS101	WS102	WS107	WS108
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				N/A	N/A	N/A	N/A	N/A
Depth (m)				0.05	0.20	0.20	0.05	0.05
Date Sampled				21/10/2025	21/10/2025	21/10/2025	21/10/2025	21/10/2025
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					
Carbophenothion	µg/kg	10	NONE	< 10	-	-	-	-
Cyfluthrin (Sum)	µg/kg	10	NONE	< 10	-	-	-	-
Delta-BHC	µg/kg	10	NONE	< 10	-	-	-	-
Dieldrin	µg/kg	10	NONE	< 10	-	-	-	-
Deltamethrin	µg/kg	10	NONE	< 10	-	-	-	-
Heptachlor Exo-epoxide	µg/kg	10	NONE	< 10	-	-	-	-
Endrin	µg/kg	10	NONE	< 10	-	-	-	-
Endosulfan I (alpha isomer)	µg/kg	10	NONE	< 10	-	-	-	-
Endosulfan II (beta isomer)	µg/kg	10	NONE	< 10	-	-	-	-
Fenthion	µg/kg	10	NONE	< 10	-	-	-	-
Isodrin	µg/kg	10	NONE	< 10	-	-	-	-
Methacrifos	µg/kg	10	NONE	< 10	-	-	-	-
O,p'-DDD	µg/kg	10	NONE	< 10	-	-	-	-
O,p'-DDE	µg/kg	10	NONE	< 10	-	-	-	-
O,p'-DDT	µg/kg	10	NONE	< 10	-	-	-	-
Parathion	µg/kg	10	NONE	< 10	-	-	-	-
Parathion-methyl	µg/kg	10	NONE	< 10	-	-	-	-
Pendimethalin	µg/kg	10	NONE	< 10	-	-	-	-
Phorate	µg/kg	10	NONE	< 10	-	-	-	-
Phosalone	µg/kg	10	NONE	< 10	-	-	-	-
P,p'-DDD	µg/kg	10	NONE	< 10	-	-	-	-
P,p'-DDE	µg/kg	10	NONE	< 10	-	-	-	-
P,p'-DDT	µg/kg	10	NONE	< 10	-	-	-	-
P,p'-Methoxychlor	µg/kg	10	NONE	< 10	-	-	-	-
Propyzamide	µg/kg	10	NONE	< 10	-	-	-	-
Triazophos	µg/kg	10	NONE	< 10	-	-	-	-
Trans-Chlordane	µg/kg	10	NONE	< 10	-	-	-	-
Cypermethrin (Sum)	µg/kg	10	NONE	< 10	-	-	-	-
Dichlorvos	µg/kg	10	NONE	< 10	-	-	-	-
Dimethoate	µg/kg	10	NONE	< 10	-	-	-	-
Diazinon	µg/kg	10	NONE	< 10	-	-	-	-
Ethion	µg/kg	10	NONE	< 10	-	-	-	-
Fenitrothion	µg/kg	10	NONE	< 10	-	-	-	-
Malathion	µg/kg	10	NONE	< 10	-	-	-	-
Pyrimiphos-methyl	µg/kg	10	NONE	< 10	-	-	-	-
Trifluralin	µg/kg	10	NONE	< 10	-	-	-	-
Azinphos-ethyl	µg/kg	10	NONE	< 10	-	-	-	-

Analytical Report Number: 25-057957
Project / Site name: Eastern Way, Melksham
Your Order No: PO-01976

Lab Sample Number	729127	729128	729129	729130	729131
Sample Reference	WS101	WS101	WS102	WS107	WS108
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	0.05	0.20	0.20	0.05	0.05
Date Sampled	21/10/2025	21/10/2025	21/10/2025	21/10/2025	21/10/2025
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Acid Herbicides

4-CPA	µg/kg	10	NONE	< 10	-	-	-	-
Dinoseb	µg/kg	10	NONE	< 10	-	-	-	-
Flamprop	µg/kg	10	NONE	< 10	-	-	-	-
Ioxynil	µg/kg	10	NONE	< 10	-	-	-	-
2,3,6-TBA	µg/kg	10	NONE	< 10	-	-	-	-
Bromacil	µg/kg	10	NONE	< 10	-	-	-	-
Diclofop	µg/kg	10	NONE	< 10	-	-	-	-
Flamprop-Isopropyl	µg/kg	10	NONE	< 10	-	-	-	-
MCPB (Mecoprop)	µg/kg	10	NONE	< 10	-	-	-	-
Bromoxynil	µg/kg	10	NONE	< 10	-	-	-	-
Dichlorprop	µg/kg	10	NONE	< 10	-	-	-	-
Clopyralid	µg/kg	10	NONE	< 10	-	-	-	-
2,4-D	µg/kg	10	NONE	< 10	-	-	-	-
2,4-DB	µg/kg	10	NONE	< 10	-	-	-	-
Dicamba	µg/kg	10	NONE	< 10	-	-	-	-
2,4,5-TP (Fenoprop)	µg/kg	10	NONE	< 10	-	-	-	-
MCPB	µg/kg	10	NONE	< 10	-	-	-	-
Picloram	µg/kg	10	NONE	< 10	-	-	-	-
2,4,5-T	µg/kg	10	NONE	< 10	-	-	-	-
MCPA	µg/kg	10	NONE	< 10	-	-	-	-

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 25-057957
Project / Site name: Eastern Way, Melksham
Your Order No: PO-01976

Lab Sample Number	729132	729133	729134	729135	729136
Sample Reference	WS109	WS111	WS112	WS103	WS106
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	0.40	0.05	0.20	0.30	0.60
Date Sampled	21/10/2025	21/10/2025	21/10/2025	21/10/2025	21/10/2025
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	18	17	16	16	18
Total mass of sample received	kg	0.1	NONE	0.6	0.6	0.9	2	2

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	-	-
Asbestos Analyst ID	N/A	N/A	N/A	MBI	MBI	MBI	-	-
Analysis completed	N/A	N/A	N/A	31/10/2025	31/10/2025	31/10/2025	-	-

General Inorganics

pH (L005B)	pH Units	N/A	MCERTS	-	-	-	7.5	8.1
pH (L099)	pH Units	N/A	MCERTS	7.1	6.4	7.4	-	-
Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	-
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	55	53	100	-	-
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	27.5	26.4	51.3	-	-
Water Soluble SO ₄ 16hr extraction (2:1)	mg/l	1.25	MCERTS	-	-	-	-	-
Sulphide	mg/kg	1	MCERTS	< 1.0	1.4	1.1	-	-
Organic Matter (automated)	%	0.1	MCERTS	4.1	12	2.1	-	-
Total Organic Carbon (TOC) – Manual	%	0.1	MCERTS	-	-	-	2.8	0.9
Loss on Ignition @ 450°C	%	0.2	MCERTS	-	-	-	8.2	5
Acid Neutralisation Capacity	±/- mmol/kg	-9999	NONE	-	-	-	0.92	13

Total Phenols

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

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	0.12	< 0.05	< 0.05	< 0.05
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	0.42	0.06	0.08	< 0.05
Pyrene	mg/kg	0.05	MCERTS	0.06	0.39	0.06	0.09	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	0.31	< 0.05	0.05	< 0.05
Chrysene	mg/kg	0.05	MCERTS	< 0.05	0.32	< 0.05	0.07	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	0.45	< 0.05	< 0.05	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	0.35	< 0.05	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	0.16	< 0.05	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	0.19	< 0.05	< 0.05	< 0.05
Coronene	mg/kg	0.05	NONE	-	-	-	< 0.05	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	< 0.80	2.71	< 0.80	-	-
Total WAC-17 PAHs	mg/kg	0.85	NONE	-	-	-	< 0.85	< 0.85

Analytical Report Number: 25-057957
Project / Site name: Eastern Way, Melksham
Your Order No: PO-01976

Lab Sample Number	729132	729133	729134	729135	729136
Sample Reference	WS109	WS111	WS112	WS103	WS106
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	0.40	0.05	0.20	0.30	0.60
Date Sampled	21/10/2025	21/10/2025	21/10/2025	21/10/2025	21/10/2025
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	15	12	17	-	-
Boron (water soluble)	mg/kg	0.2	MCERTS	1.8	2.8	1.8	-	-
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	-	-
Chromium (hexavalent) Low Level	mg/kg	1.2	NONE	< 1.2	< 1.2	< 1.2	-	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	47	38	56	-	-
Copper (aqua regia extractable)	mg/kg	1	MCERTS	15	21	17	-	-
Lead (aqua regia extractable)	mg/kg	1	MCERTS	50	53	28	-	-
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	-	-
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	24	21	30	-	-
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	1.8	-	-
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	82	110	79	-	-

Petroleum Hydrocarbons

TPHCWG - Aliphatic >EC5 - EC6 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010	-	-	-	-
TPHCWG - Aliphatic >EC6 - EC8 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010	-	-	-	-
TPHCWG - Aliphatic >EC8 - EC10 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010	-	-	-	-
TPHCWG - Aliphatic >EC10 - EC12 _{EH_CU_1D_AL}	mg/kg	1	MCERTS	< 1.0	-	-	-	-
TPHCWG - Aliphatic >EC12 - EC16 _{EH_CU_1D_AL}	mg/kg	2	MCERTS	< 2.0	-	-	-	-
TPHCWG - Aliphatic >EC16 - EC21 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	< 8.0	-	-	-	-
TPHCWG - Aliphatic >EC21 - EC35 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	< 8.0	-	-	-	-
TPHCWG - Aliphatic >EC5 - EC35 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	< 10	-	-	-	-

TPHCWG - Aromatic >EC5 - EC7 _{HS_1D_AR}	mg/kg	0.01	MCERTS	< 0.010	-	-	-	-
TPHCWG - Aromatic >EC7 - EC8 _{HS_1D_AR}	mg/kg	0.01	MCERTS	< 0.010	-	-	-	-
TPHCWG - Aromatic >EC8 - EC10 _{HS_1D_AR}	mg/kg	0.02	MCERTS	< 0.020	-	-	-	-
TPHCWG - Aromatic >EC10 - EC12 _{EH_CU_1D_AR}	mg/kg	1	MCERTS	< 1.0	-	-	-	-
TPHCWG - Aromatic >EC12 - EC16 _{EH_CU_1D_AR}	mg/kg	2	MCERTS	< 2.0	-	-	-	-
TPHCWG - Aromatic >EC16 - EC21 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	< 10	-	-	-	-
TPHCWG - Aromatic >EC21 - EC35 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	< 10	-	-	-	-
TPHCWG - Aromatic >EC5 - EC35 _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	< 10	-	-	-	-

Mineral Oil (EC10 - EC40) _{EH_CU_1D_AL}	mg/kg	10	NONE	-	-	-	< 10	< 10
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VOCs

MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	MCERTS	< 5.0	-	-	-	-
Benzene	µg/kg	5	MCERTS	< 5.0	-	-	< 5.0	< 5.0
Toluene	µg/kg	5	MCERTS	< 5.0	-	-	< 5.0	< 5.0
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	-	-	< 5.0	< 5.0
p & m-Xylene	µg/kg	8	MCERTS	< 8.0	-	-	< 8.0	< 8.0
o-Xylene	µg/kg	5	MCERTS	< 5.0	-	-	< 5.0	< 5.0

Total BTEX	µg/kg	10	MCERTS	-	-	-	< 10	< 10
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Analytical Report Number: 25-057957
Project / Site name: Eastern Way, Melksham
Your Order No: PO-01976

Lab Sample Number	729132	729133	729134	729135	729136
Sample Reference	WS109	WS111	WS112	WS103	WS106
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	0.40	0.05	0.20	0.30	0.60
Date Sampled	21/10/2025	21/10/2025	21/10/2025	21/10/2025	21/10/2025
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

PCBs by GC-MS

PCB Congener 28	mg/kg	0.001	MCERTS	-	-	-	< 0.001	< 0.001
PCB Congener 52	mg/kg	0.001	MCERTS	-	-	-	< 0.001	< 0.001
PCB Congener 101	mg/kg	0.001	MCERTS	-	-	-	< 0.001	< 0.001
PCB Congener 118	mg/kg	0.001	MCERTS	-	-	-	< 0.001	< 0.001
PCB Congener 138	mg/kg	0.001	MCERTS	-	-	-	< 0.001	< 0.001
PCB Congener 153	mg/kg	0.001	MCERTS	-	-	-	< 0.001	< 0.001
PCB Congener 180	mg/kg	0.001	MCERTS	-	-	-	< 0.001	< 0.001
Total PCBs	mg/kg	0.007	MCERTS	-	-	-	< 0.007	< 0.007

Pesticides (GC-MS)

Alpha-BHC (Benzene Hexachloride)	µg/kg	10	NONE	-	< 10	-	-	-
Alachlor	µg/kg	10	NONE	-	< 10	-	-	-
Bifenthrin	µg/kg	10	NONE	-	< 10	-	-	-
Cyhalothrin (Lambda)	µg/kg	10	NONE	-	< 10	-	-	-
Gamma-BHC (Lindane, gamma HCH)	µg/kg	10	NONE	-	< 10	-	-	-
Omethoate	µg/kg	10	NONE	-	< 10	-	-	-
1,2,3-Trichlorobenzene	µg/kg	10	NONE	-	< 10	-	-	-
1,3,5-Trichlorobenzene	µg/kg	10	NONE	-	< 10	-	-	-
2,6-Dichlorobenzonitrile	µg/kg	10	NONE	-	< 10	-	-	-
Dimethylvinphos	µg/kg	10	NONE	-	< 10	-	-	-
Demeton-O	µg/kg	10	NONE	-	< 10	-	-	-
Demeton-S	µg/kg	10	NONE	-	< 10	-	-	-
Endrin Aldehyde	µg/kg	10	NONE	-	< 10	-	-	-
Endrin Ketone	µg/kg	10	NONE	-	< 10	-	-	-
Hexachlorobutadiene	µg/kg	10	NONE	-	< 10	-	-	-
Phosphamidon (Sum)	µg/kg	10	NONE	-	< 10	-	-	-
1,2,4,5-Tetrachlorobenzene	µg/kg	10	NONE	-	< 10	-	-	-
Cis-Permethrin	µg/kg	10	NONE	-	< 10	-	-	-
Endosulfan sulfate	µg/kg	10	NONE	-	< 10	-	-	-
Etrinfos	µg/kg	10	NONE	-	< 10	-	-	-
Fenvalerate (Sum)	µg/kg	10	NONE	-	< 10	-	-	-
Hexachlorobenzene	µg/kg	10	NONE	-	< 10	-	-	-
Mevinphos, E+Z	µg/kg	10	NONE	-	< 10	-	-	-
Pentachlorobenzene	µg/kg	10	NONE	-	< 10	-	-	-
Pirimiphos-ethyl	µg/kg	10	NONE	-	< 10	-	-	-
Propetamphos	µg/kg	10	NONE	-	< 10	-	-	-
Tecnazene	µg/kg	10	NONE	-	< 10	-	-	-
Triadimefon	µg/kg	10	NONE	-	< 10	-	-	-
Trans-Permethrin	µg/kg	10	NONE	-	< 10	-	-	-
Aldrin	µg/kg	10	NONE	-	< 10	-	-	-
Azinphos-methyl	µg/kg	10	NONE	-	< 10	-	-	-
Beta-BHC	µg/kg	10	NONE	-	< 10	-	-	-
Cis-Chlordane	µg/kg	10	NONE	-	< 10	-	-	-
Chlorfenvinphos	µg/kg	10	NONE	-	< 10	-	-	-
Chlorpyrifos	µg/kg	10	NONE	-	< 10	-	-	-
Chlorothalonil	µg/kg	10	NONE	-	< 10	-	-	-

Analytical Report Number: 25-057957
Project / Site name: Eastern Way, Melksham
Your Order No: PO-01976

Lab Sample Number				729132	729133	729134	729135	729136
Sample Reference				WS109	WS111	WS112	WS103	WS106
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				N/A	N/A	N/A	N/A	N/A
Depth (m)				0.40	0.05	0.20	0.30	0.60
Date Sampled				21/10/2025	21/10/2025	21/10/2025	21/10/2025	21/10/2025
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					
Carbophenothion	µg/kg	10	NONE	-	< 10	-	-	-
Cyfluthrin (Sum)	µg/kg	10	NONE	-	< 10	-	-	-
Delta-BHC	µg/kg	10	NONE	-	< 10	-	-	-
Dieldrin	µg/kg	10	NONE	-	< 10	-	-	-
Deltamethrin	µg/kg	10	NONE	-	< 10	-	-	-
Heptachlor Exo-epoxide	µg/kg	10	NONE	-	< 10	-	-	-
Endrin	µg/kg	10	NONE	-	< 10	-	-	-
Endosulfan I (alpha isomer)	µg/kg	10	NONE	-	< 10	-	-	-
Endosulfan II (beta isomer)	µg/kg	10	NONE	-	< 10	-	-	-
Fenthion	µg/kg	10	NONE	-	< 10	-	-	-
Isodrin	µg/kg	10	NONE	-	< 10	-	-	-
Methacrifos	µg/kg	10	NONE	-	< 10	-	-	-
O,p'-DDD	µg/kg	10	NONE	-	< 10	-	-	-
O,p'-DDE	µg/kg	10	NONE	-	< 10	-	-	-
O,p'-DDT	µg/kg	10	NONE	-	< 10	-	-	-
Parathion	µg/kg	10	NONE	-	< 10	-	-	-
Parathion-methyl	µg/kg	10	NONE	-	< 10	-	-	-
Pendimethalin	µg/kg	10	NONE	-	< 10	-	-	-
Phorate	µg/kg	10	NONE	-	< 10	-	-	-
Phosalone	µg/kg	10	NONE	-	< 10	-	-	-
P,p'-DDD	µg/kg	10	NONE	-	< 10	-	-	-
P,p'-DDE	µg/kg	10	NONE	-	< 10	-	-	-
P,p'-DDT	µg/kg	10	NONE	-	< 10	-	-	-
P,p'-Methoxychlor	µg/kg	10	NONE	-	< 10	-	-	-
Propyzamide	µg/kg	10	NONE	-	< 10	-	-	-
Triazophos	µg/kg	10	NONE	-	< 10	-	-	-
Trans-Chlordane	µg/kg	10	NONE	-	< 10	-	-	-
Cypermethrin (Sum)	µg/kg	10	NONE	-	< 10	-	-	-
Dichlorvos	µg/kg	10	NONE	-	< 10	-	-	-
Dimethoate	µg/kg	10	NONE	-	< 10	-	-	-
Diazinon	µg/kg	10	NONE	-	< 10	-	-	-
Ethion	µg/kg	10	NONE	-	< 10	-	-	-
Fenitrothion	µg/kg	10	NONE	-	< 10	-	-	-
Malathion	µg/kg	10	NONE	-	< 10	-	-	-
Pirimiphos-methyl	µg/kg	10	NONE	-	< 10	-	-	-
Trifluralin	µg/kg	10	NONE	-	< 10	-	-	-
Azinphos-ethyl	µg/kg	10	NONE	-	< 10	-	-	-

Analytical Report Number: 25-057957
Project / Site name: Eastern Way, Melksham
Your Order No: PO-01976

Lab Sample Number	729132	729133	729134	729135	729136
Sample Reference	WS109	WS111	WS112	WS103	WS106
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	0.40	0.05	0.20	0.30	0.60
Date Sampled	21/10/2025	21/10/2025	21/10/2025	21/10/2025	21/10/2025
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Acid Herbicides

4-CPA	µg/kg	10	NONE	-	< 10	-	-	-
Dinoseb	µg/kg	10	NONE	-	< 10	-	-	-
Flamprop	µg/kg	10	NONE	-	< 10	-	-	-
Ioxynil	µg/kg	10	NONE	-	< 10	-	-	-
2,3,6-TBA	µg/kg	10	NONE	-	< 10	-	-	-
Bromacil	µg/kg	10	NONE	-	< 10	-	-	-
Diclofop	µg/kg	10	NONE	-	< 10	-	-	-
Flamprop-Isopropyl	µg/kg	10	NONE	-	< 10	-	-	-
MCPB (Mecoprop)	µg/kg	10	NONE	-	< 10	-	-	-
Bromoxynil	µg/kg	10	NONE	-	< 10	-	-	-
Dichlorprop	µg/kg	10	NONE	-	< 10	-	-	-
Clopyralid	µg/kg	10	NONE	-	< 10	-	-	-
2,4-D	µg/kg	10	NONE	-	< 10	-	-	-
2,4-DB	µg/kg	10	NONE	-	< 10	-	-	-
Dicamba	µg/kg	10	NONE	-	< 10	-	-	-
2,4,5-TP (Fenoprop)	µg/kg	10	NONE	-	< 10	-	-	-
MCPB	µg/kg	10	NONE	-	< 10	-	-	-
Picloram	µg/kg	10	NONE	-	< 10	-	-	-
2,4,5-T	µg/kg	10	NONE	-	< 10	-	-	-
MCPA	µg/kg	10	NONE	-	< 10	-	-	-

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 25-057957
Project / Site name: Eastern Way, Melksham
Your Order No: PO-01976

Lab Sample Number	729137	729138	729139	729140	729141
Sample Reference	WS110	WS103	WS104	WS106	WS106
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	0.30	1.50	0.70	1.30	2.30
Date Sampled	21/10/2025	21/10/2025	21/10/2025	21/10/2025	21/10/2025
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	20	15	16	16	18
Total mass of sample received	kg	0.1	NONE	2	0.7	0.6	0.6	0.5

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	-	-	-	-	-
Asbestos Analyst ID	N/A	N/A	N/A	-	-	-	-	-
Analysis completed	N/A	N/A	N/A	-	-	-	-	-

General Inorganics

pH (L005B)	pH Units	N/A	MCERTS	7.6	-	-	-	-
pH (L099)	pH Units	N/A	MCERTS	-	7.6	7.9	7.9	7.9
Total Cyanide	mg/kg	1	MCERTS	-	-	-	-	-
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	-	4700	1500	860	5000
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	-	-	-	-	-
Water Soluble SO ₄ 16hr extraction (2:1)	mg/l	1.25	MCERTS	-	2360	731	428	2480
Sulphide	mg/kg	1	MCERTS	-	-	-	-	-
Organic Matter (automated)	%	0.1	MCERTS	-	-	-	-	-
Total Organic Carbon (TOC) – Manual	%	0.1	MCERTS	0.8	-	-	-	-
Loss on Ignition @ 450°C	%	0.2	MCERTS	6	-	-	-	-
Acid Neutralisation Capacity	±/- mmol/kg	-9999	NONE	0.69	-	-	-	-

Total Phenols

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

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	-
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	-
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	-
Fluorene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	-
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	-
Anthracene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	-
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	-
Pyrene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	-
Chrysene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	-
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	-	-	-	-
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	-	-	-	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	-
Coronene	mg/kg	0.05	NONE	< 0.05	-	-	-	-

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	-	-	-	-	-
Total WAC-17 PAHs	mg/kg	0.85	NONE	< 0.85	-	-	-	-

Analytical Report Number: 25-057957
Project / Site name: Eastern Way, Melksham
Your Order No: PO-01976

Lab Sample Number	729137	729138	729139	729140	729141
Sample Reference	WS110	WS103	WS104	WS106	WS106
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	0.30	1.50	0.70	1.30	2.30
Date Sampled	21/10/2025	21/10/2025	21/10/2025	21/10/2025	21/10/2025
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	-
Boron (water soluble)	mg/kg	0.2	MCERTS	-	-	-	-	-
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	-	-	-	-	-
Chromium (hexavalent) Low Level	mg/kg	1.2	NONE	-	-	-	-	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	-
Copper (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	-
Lead (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	-
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	-	-	-	-	-
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	-
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	-
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	-

Petroleum Hydrocarbons

TPHCWG - Aliphatic >EC5 - EC6 _{HS_1D_AL}	mg/kg	0.01	MCERTS	-	-	-	-	-
TPHCWG - Aliphatic >EC6 - EC8 _{HS_1D_AL}	mg/kg	0.01	MCERTS	-	-	-	-	-
TPHCWG - Aliphatic >EC8 - EC10 _{HS_1D_AL}	mg/kg	0.01	MCERTS	-	-	-	-	-
TPHCWG - Aliphatic >EC10 - EC12 _{EH_CU_1D_AL}	mg/kg	1	MCERTS	-	-	-	-	-
TPHCWG - Aliphatic >EC12 - EC16 _{EH_CU_1D_AL}	mg/kg	2	MCERTS	-	-	-	-	-
TPHCWG - Aliphatic >EC16 - EC21 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	-	-	-	-	-
TPHCWG - Aliphatic >EC21 - EC35 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	-	-	-	-	-
TPHCWG - Aliphatic >EC5 - EC35 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	-	-	-	-	-

TPHCWG - Aromatic >EC5 - EC7 _{HS_1D_AR}	mg/kg	0.01	MCERTS	-	-	-	-	-
TPHCWG - Aromatic >EC7 - EC8 _{HS_1D_AR}	mg/kg	0.01	MCERTS	-	-	-	-	-
TPHCWG - Aromatic >EC8 - EC10 _{HS_1D_AR}	mg/kg	0.02	MCERTS	-	-	-	-	-
TPHCWG - Aromatic >EC10 - EC12 _{EH_CU_1D_AR}	mg/kg	1	MCERTS	-	-	-	-	-
TPHCWG - Aromatic >EC12 - EC16 _{EH_CU_1D_AR}	mg/kg	2	MCERTS	-	-	-	-	-
TPHCWG - Aromatic >EC16 - EC21 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	-	-	-	-	-
TPHCWG - Aromatic >EC21 - EC35 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	-	-	-	-	-
TPHCWG - Aromatic >EC5 - EC35 _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	-	-	-	-	-

Mineral Oil (EC10 - EC40) _{EH_CU_1D_AL}	mg/kg	10	NONE	< 10	-	-	-	-
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VOCs

MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	MCERTS	-	-	-	-	-
Benzene	µg/kg	5	MCERTS	< 5.0	-	-	-	-
Toluene	µg/kg	5	MCERTS	< 5.0	-	-	-	-
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	-	-	-	-
p & m-Xylene	µg/kg	8	MCERTS	< 8.0	-	-	-	-
o-Xylene	µg/kg	5	MCERTS	< 5.0	-	-	-	-

Total BTEX	µg/kg	10	MCERTS	< 10	-	-	-	-
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Analytical Report Number: 25-057957
Project / Site name: Eastern Way, Melksham
Your Order No: PO-01976

Lab Sample Number	729137	729138	729139	729140	729141
Sample Reference	WS110	WS103	WS104	WS106	WS106
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	0.30	1.50	0.70	1.30	2.30
Date Sampled	21/10/2025	21/10/2025	21/10/2025	21/10/2025	21/10/2025
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

PCBs by GC-MS

PCB Congener 28	mg/kg	0.001	MCERTS	< 0.001	-	-	-	-
PCB Congener 52	mg/kg	0.001	MCERTS	< 0.001	-	-	-	-
PCB Congener 101	mg/kg	0.001	MCERTS	< 0.001	-	-	-	-
PCB Congener 118	mg/kg	0.001	MCERTS	< 0.001	-	-	-	-
PCB Congener 138	mg/kg	0.001	MCERTS	< 0.001	-	-	-	-
PCB Congener 153	mg/kg	0.001	MCERTS	< 0.001	-	-	-	-
PCB Congener 180	mg/kg	0.001	MCERTS	< 0.001	-	-	-	-
Total PCBs	mg/kg	0.007	MCERTS	< 0.007	-	-	-	-

Pesticides (GC-MS)

Alpha-BHC (Benzene Hexachloride)	µg/kg	10	NONE	-	-	-	-	-
Alachlor	µg/kg	10	NONE	-	-	-	-	-
Bifenthrin	µg/kg	10	NONE	-	-	-	-	-
Cyhalothrin (Lambda)	µg/kg	10	NONE	-	-	-	-	-
Gamma-BHC (Lindane, gamma HCH)	µg/kg	10	NONE	-	-	-	-	-
Omethoate	µg/kg	10	NONE	-	-	-	-	-
1,2,3-Trichlorobenzene	µg/kg	10	NONE	-	-	-	-	-
1,3,5-Trichlorobenzene	µg/kg	10	NONE	-	-	-	-	-
2,6-Dichlorobenzonitrile	µg/kg	10	NONE	-	-	-	-	-
Dimethylvinphos	µg/kg	10	NONE	-	-	-	-	-
Demeton-O	µg/kg	10	NONE	-	-	-	-	-
Demeton-S	µg/kg	10	NONE	-	-	-	-	-
Endrin Aldehyde	µg/kg	10	NONE	-	-	-	-	-
Endrin Ketone	µg/kg	10	NONE	-	-	-	-	-
Hexachlorobutadiene	µg/kg	10	NONE	-	-	-	-	-
Phosphamidon (Sum)	µg/kg	10	NONE	-	-	-	-	-
1,2,4,5-Tetrachlorobenzene	µg/kg	10	NONE	-	-	-	-	-
Cis-Permethrin	µg/kg	10	NONE	-	-	-	-	-
Endosulfan sulfate	µg/kg	10	NONE	-	-	-	-	-
Etrinfos	µg/kg	10	NONE	-	-	-	-	-
Fenvalerate (Sum)	µg/kg	10	NONE	-	-	-	-	-
Hexachlorobenzene	µg/kg	10	NONE	-	-	-	-	-
Mevinphos, E+Z	µg/kg	10	NONE	-	-	-	-	-
Pentachlorobenzene	µg/kg	10	NONE	-	-	-	-	-
Pirimiphos-ethyl	µg/kg	10	NONE	-	-	-	-	-
Propetamphos	µg/kg	10	NONE	-	-	-	-	-
Tecnazene	µg/kg	10	NONE	-	-	-	-	-
Triadimefon	µg/kg	10	NONE	-	-	-	-	-
Trans-Permethrin	µg/kg	10	NONE	-	-	-	-	-
Aldrin	µg/kg	10	NONE	-	-	-	-	-
Azinphos-methyl	µg/kg	10	NONE	-	-	-	-	-
Beta-BHC	µg/kg	10	NONE	-	-	-	-	-
Cis-Chlordane	µg/kg	10	NONE	-	-	-	-	-
Chlorfenvinphos	µg/kg	10	NONE	-	-	-	-	-
Chlorpyrifos	µg/kg	10	NONE	-	-	-	-	-
Chlorothalonil	µg/kg	10	NONE	-	-	-	-	-

Analytical Report Number: 25-057957
Project / Site name: Eastern Way, Melksham
Your Order No: PO-01976

Lab Sample Number				729137	729138	729139	729140	729141
Sample Reference				WS110	WS103	WS104	WS106	WS106
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				N/A	N/A	N/A	N/A	N/A
Depth (m)				0.30	1.50	0.70	1.30	2.30
Date Sampled				21/10/2025	21/10/2025	21/10/2025	21/10/2025	21/10/2025
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					
Carbophenothion	µg/kg	10	NONE	-	-	-	-	-
Cyfluthrin (Sum)	µg/kg	10	NONE	-	-	-	-	-
Delta-BHC	µg/kg	10	NONE	-	-	-	-	-
Dieldrin	µg/kg	10	NONE	-	-	-	-	-
Deltamethrin	µg/kg	10	NONE	-	-	-	-	-
Heptachlor Exo-epoxide	µg/kg	10	NONE	-	-	-	-	-
Endrin	µg/kg	10	NONE	-	-	-	-	-
Endosulfan I (alpha isomer)	µg/kg	10	NONE	-	-	-	-	-
Endosulfan II (beta isomer)	µg/kg	10	NONE	-	-	-	-	-
Fenthion	µg/kg	10	NONE	-	-	-	-	-
Isodrin	µg/kg	10	NONE	-	-	-	-	-
Methacrifos	µg/kg	10	NONE	-	-	-	-	-
O,p'-DDD	µg/kg	10	NONE	-	-	-	-	-
O,p'-DDE	µg/kg	10	NONE	-	-	-	-	-
O,p'-DDT	µg/kg	10	NONE	-	-	-	-	-
Parathion	µg/kg	10	NONE	-	-	-	-	-
Parathion-methyl	µg/kg	10	NONE	-	-	-	-	-
Pendimethalin	µg/kg	10	NONE	-	-	-	-	-
Phorate	µg/kg	10	NONE	-	-	-	-	-
Phosalone	µg/kg	10	NONE	-	-	-	-	-
P,p'-DDD	µg/kg	10	NONE	-	-	-	-	-
P,p'-DDE	µg/kg	10	NONE	-	-	-	-	-
P,p'-DDT	µg/kg	10	NONE	-	-	-	-	-
P,p'-Methoxychlor	µg/kg	10	NONE	-	-	-	-	-
Propyzamide	µg/kg	10	NONE	-	-	-	-	-
Triazophos	µg/kg	10	NONE	-	-	-	-	-
Trans-Chlordane	µg/kg	10	NONE	-	-	-	-	-
Cypermethrin (Sum)	µg/kg	10	NONE	-	-	-	-	-
Dichlorvos	µg/kg	10	NONE	-	-	-	-	-
Dimethoate	µg/kg	10	NONE	-	-	-	-	-
Diazinon	µg/kg	10	NONE	-	-	-	-	-
Ethion	µg/kg	10	NONE	-	-	-	-	-
Fenitrothion	µg/kg	10	NONE	-	-	-	-	-
Malathion	µg/kg	10	NONE	-	-	-	-	-
Pirimiphos-methyl	µg/kg	10	NONE	-	-	-	-	-
Trifluralin	µg/kg	10	NONE	-	-	-	-	-
Azinphos-ethyl	µg/kg	10	NONE	-	-	-	-	-

Analytical Report Number: 25-057957
Project / Site name: Eastern Way, Melksham
Your Order No: PO-01976

Lab Sample Number	729137	729138	729139	729140	729141
Sample Reference	WS110	WS103	WS104	WS106	WS106
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	0.30	1.50	0.70	1.30	2.30
Date Sampled	21/10/2025	21/10/2025	21/10/2025	21/10/2025	21/10/2025
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Acid Herbicides

4-CPA	µg/kg	10	NONE	-	-	-	-	-
Dinoseb	µg/kg	10	NONE	-	-	-	-	-
Flamprop	µg/kg	10	NONE	-	-	-	-	-
Ioxynil	µg/kg	10	NONE	-	-	-	-	-
2,3,6-TBA	µg/kg	10	NONE	-	-	-	-	-
Bromacil	µg/kg	10	NONE	-	-	-	-	-
Diclofop	µg/kg	10	NONE	-	-	-	-	-
Flamprop-Isopropyl	µg/kg	10	NONE	-	-	-	-	-
MCPB (Mecoprop)	µg/kg	10	NONE	-	-	-	-	-
Bromoxynil	µg/kg	10	NONE	-	-	-	-	-
Dichlorprop	µg/kg	10	NONE	-	-	-	-	-
Clopyralid	µg/kg	10	NONE	-	-	-	-	-
2,4-D	µg/kg	10	NONE	-	-	-	-	-
2,4-DB	µg/kg	10	NONE	-	-	-	-	-
Dicamba	µg/kg	10	NONE	-	-	-	-	-
2,4,5-TP (Fenoprop)	µg/kg	10	NONE	-	-	-	-	-
MCPB	µg/kg	10	NONE	-	-	-	-	-
Picloram	µg/kg	10	NONE	-	-	-	-	-
2,4,5-T	µg/kg	10	NONE	-	-	-	-	-
MCPA	µg/kg	10	NONE	-	-	-	-	-

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

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Project / Site name: Eastern Way, Melksham
Your Order No: PO-01976

Lab Sample Number	729142	729143	729144	729145	729146
Sample Reference	WS107	WS107	WS108	WS109	WS109
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	1.10	2.10	1.20	1.60	2.50
Date Sampled	21/10/2025	21/10/2025	21/10/2025	22/10/2025	22/10/2025
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	16	19	17	16	21
Total mass of sample received	kg	0.1	NONE	0.6	0.5	0.6	0.6	0.5

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	-	-	-	-	-
Asbestos Analyst ID	N/A	N/A	N/A	-	-	-	-	-
Analysis completed	N/A	N/A	N/A	-	-	-	-	-

General Inorganics

pH (L005B)	pH Units	N/A	MCERTS	-	-	-	-	-
pH (L099)	pH Units	N/A	MCERTS	8.2	7.8	8.1	7.7	8
Total Cyanide	mg/kg	1	MCERTS	-	-	-	-	-
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	690	5600	970	4700	970
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	-	-	-	-	-
Water Soluble SO ₄ 16hr extraction (2:1)	mg/l	1.25	MCERTS	346	2820	484	2370	485
Sulphide	mg/kg	1	MCERTS	-	-	-	-	-
Organic Matter (automated)	%	0.1	MCERTS	-	-	-	-	-
Total Organic Carbon (TOC) – Manual	%	0.1	MCERTS	-	-	-	-	-
Loss on Ignition @ 450°C	%	0.2	MCERTS	-	-	-	-	-
Acid Neutralisation Capacity	±/- mmol/kg	-9999	NONE	-	-	-	-	-

Total Phenols

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

Naphthalene	mg/kg	0.05	MCERTS	-	-	-	-	-
Acenaphthylene	mg/kg	0.05	MCERTS	-	-	-	-	-
Acenaphthene	mg/kg	0.05	MCERTS	-	-	-	-	-
Fluorene	mg/kg	0.05	MCERTS	-	-	-	-	-
Phenanthrene	mg/kg	0.05	MCERTS	-	-	-	-	-
Anthracene	mg/kg	0.05	MCERTS	-	-	-	-	-
Fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-	-
Pyrene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	-	-	-	-
Chrysene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	-	-	-	-	-
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	-	-	-	-	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	-	-	-	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	-	-	-	-
Coronene	mg/kg	0.05	NONE	-	-	-	-	-

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	-	-	-	-	-
Total WAC-17 PAHs	mg/kg	0.85	NONE	-	-	-	-	-

Analytical Report Number: 25-057957
Project / Site name: Eastern Way, Melksham
Your Order No: PO-01976

Lab Sample Number	729142	729143	729144	729145	729146
Sample Reference	WS107	WS107	WS108	WS109	WS109
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	1.10	2.10	1.20	1.60	2.50
Date Sampled	21/10/2025	21/10/2025	21/10/2025	22/10/2025	22/10/2025
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	-
Boron (water soluble)	mg/kg	0.2	MCERTS	-	-	-	-	-
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	-	-	-	-	-
Chromium (hexavalent) Low Level	mg/kg	1.2	NONE	-	-	-	-	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	-
Copper (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	-
Lead (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	-
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	-	-	-	-	-
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	-
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	-
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	-

Petroleum Hydrocarbons

TPHCWG - Aliphatic >EC5 - EC6 _{HS_1D_AL}	mg/kg	0.01	MCERTS	-	-	-	-	-
TPHCWG - Aliphatic >EC6 - EC8 _{HS_1D_AL}	mg/kg	0.01	MCERTS	-	-	-	-	-
TPHCWG - Aliphatic >EC8 - EC10 _{HS_1D_AL}	mg/kg	0.01	MCERTS	-	-	-	-	-
TPHCWG - Aliphatic >EC10 - EC12 _{EH_CU_1D_AL}	mg/kg	1	MCERTS	-	-	-	-	-
TPHCWG - Aliphatic >EC12 - EC16 _{EH_CU_1D_AL}	mg/kg	2	MCERTS	-	-	-	-	-
TPHCWG - Aliphatic >EC16 - EC21 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	-	-	-	-	-
TPHCWG - Aliphatic >EC21 - EC35 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	-	-	-	-	-
TPHCWG - Aliphatic >EC5 - EC35 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	-	-	-	-	-

TPHCWG - Aromatic >EC5 - EC7 _{HS_1D_AR}	mg/kg	0.01	MCERTS	-	-	-	-	-
TPHCWG - Aromatic >EC7 - EC8 _{HS_1D_AR}	mg/kg	0.01	MCERTS	-	-	-	-	-
TPHCWG - Aromatic >EC8 - EC10 _{HS_1D_AR}	mg/kg	0.02	MCERTS	-	-	-	-	-
TPHCWG - Aromatic >EC10 - EC12 _{EH_CU_1D_AR}	mg/kg	1	MCERTS	-	-	-	-	-
TPHCWG - Aromatic >EC12 - EC16 _{EH_CU_1D_AR}	mg/kg	2	MCERTS	-	-	-	-	-
TPHCWG - Aromatic >EC16 - EC21 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	-	-	-	-	-
TPHCWG - Aromatic >EC21 - EC35 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	-	-	-	-	-
TPHCWG - Aromatic >EC5 - EC35 _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	-	-	-	-	-

Mineral Oil (EC10 - EC40) _{EH_CU_1D_AL}	mg/kg	10	NONE	-	-	-	-	-
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VOCs

MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	MCERTS	-	-	-	-	-
Benzene	µg/kg	5	MCERTS	-	-	-	-	-
Toluene	µg/kg	5	MCERTS	-	-	-	-	-
Ethylbenzene	µg/kg	5	MCERTS	-	-	-	-	-
p & m-Xylene	µg/kg	8	MCERTS	-	-	-	-	-
o-Xylene	µg/kg	5	MCERTS	-	-	-	-	-

Total BTEX	µg/kg	10	MCERTS	-	-	-	-	-
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Analytical Report Number: 25-057957
Project / Site name: Eastern Way, Melksham
Your Order No: PO-01976

Lab Sample Number	729142	729143	729144	729145	729146
Sample Reference	WS107	WS107	WS108	WS109	WS109
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	1.10	2.10	1.20	1.60	2.50
Date Sampled	21/10/2025	21/10/2025	21/10/2025	22/10/2025	22/10/2025
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

PCBs by GC-MS

PCB Congener 28	mg/kg	0.001	MCERTS	-	-	-	-	-
PCB Congener 52	mg/kg	0.001	MCERTS	-	-	-	-	-
PCB Congener 101	mg/kg	0.001	MCERTS	-	-	-	-	-
PCB Congener 118	mg/kg	0.001	MCERTS	-	-	-	-	-
PCB Congener 138	mg/kg	0.001	MCERTS	-	-	-	-	-
PCB Congener 153	mg/kg	0.001	MCERTS	-	-	-	-	-
PCB Congener 180	mg/kg	0.001	MCERTS	-	-	-	-	-
Total PCBs	mg/kg	0.007	MCERTS	-	-	-	-	-

Pesticides (GC-MS)

Alpha-BHC (Benzene Hexachloride)	µg/kg	10	NONE	-	-	-	-	-
Alachlor	µg/kg	10	NONE	-	-	-	-	-
Bifenthrin	µg/kg	10	NONE	-	-	-	-	-
Cyhalothrin (Lambda)	µg/kg	10	NONE	-	-	-	-	-
Gamma-BHC (Lindane, gamma HCH)	µg/kg	10	NONE	-	-	-	-	-
Omethoate	µg/kg	10	NONE	-	-	-	-	-
1,2,3-Trichlorobenzene	µg/kg	10	NONE	-	-	-	-	-
1,3,5-Trichlorobenzene	µg/kg	10	NONE	-	-	-	-	-
2,6-Dichlorobenzonitrile	µg/kg	10	NONE	-	-	-	-	-
Dimethylvinphos	µg/kg	10	NONE	-	-	-	-	-
Demeton-O	µg/kg	10	NONE	-	-	-	-	-
Demeton-S	µg/kg	10	NONE	-	-	-	-	-
Endrin Aldehyde	µg/kg	10	NONE	-	-	-	-	-
Endrin Ketone	µg/kg	10	NONE	-	-	-	-	-
Hexachlorobutadiene	µg/kg	10	NONE	-	-	-	-	-
Phosphamidon (Sum)	µg/kg	10	NONE	-	-	-	-	-
1,2,4,5-Tetrachlorobenzene	µg/kg	10	NONE	-	-	-	-	-
Cis-Permethrin	µg/kg	10	NONE	-	-	-	-	-
Endosulfan sulfate	µg/kg	10	NONE	-	-	-	-	-
Etrinfos	µg/kg	10	NONE	-	-	-	-	-
Fenvalerate (Sum)	µg/kg	10	NONE	-	-	-	-	-
Hexachlorobenzene	µg/kg	10	NONE	-	-	-	-	-
Mevinphos, E+Z	µg/kg	10	NONE	-	-	-	-	-
Pentachlorobenzene	µg/kg	10	NONE	-	-	-	-	-
Pirimiphos-ethyl	µg/kg	10	NONE	-	-	-	-	-
Propetamphos	µg/kg	10	NONE	-	-	-	-	-
Tecnazene	µg/kg	10	NONE	-	-	-	-	-
Triadimefon	µg/kg	10	NONE	-	-	-	-	-
Trans-Permethrin	µg/kg	10	NONE	-	-	-	-	-
Aldrin	µg/kg	10	NONE	-	-	-	-	-
Azinphos-methyl	µg/kg	10	NONE	-	-	-	-	-
Beta-BHC	µg/kg	10	NONE	-	-	-	-	-
Cis-Chlordane	µg/kg	10	NONE	-	-	-	-	-
Chlorfenvinphos	µg/kg	10	NONE	-	-	-	-	-
Chlorpyrifos	µg/kg	10	NONE	-	-	-	-	-
Chlorothalonil	µg/kg	10	NONE	-	-	-	-	-

Analytical Report Number: 25-057957
Project / Site name: Eastern Way, Melksham
Your Order No: PO-01976

Lab Sample Number				729142	729143	729144	729145	729146
Sample Reference				WS107	WS107	WS108	WS109	WS109
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				N/A	N/A	N/A	N/A	N/A
Depth (m)				1.10	2.10	1.20	1.60	2.50
Date Sampled				21/10/2025	21/10/2025	21/10/2025	22/10/2025	22/10/2025
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					
Carbophenothion	µg/kg	10	NONE	-	-	-	-	-
Cyfluthrin (Sum)	µg/kg	10	NONE	-	-	-	-	-
Delta-BHC	µg/kg	10	NONE	-	-	-	-	-
Dieldrin	µg/kg	10	NONE	-	-	-	-	-
Deltamethrin	µg/kg	10	NONE	-	-	-	-	-
Heptachlor Exo-epoxide	µg/kg	10	NONE	-	-	-	-	-
Endrin	µg/kg	10	NONE	-	-	-	-	-
Endosulfan I (alpha isomer)	µg/kg	10	NONE	-	-	-	-	-
Endosulfan II (beta isomer)	µg/kg	10	NONE	-	-	-	-	-
Fenthion	µg/kg	10	NONE	-	-	-	-	-
Isodrin	µg/kg	10	NONE	-	-	-	-	-
Methacrifos	µg/kg	10	NONE	-	-	-	-	-
O,p'-DDD	µg/kg	10	NONE	-	-	-	-	-
O,p'-DDE	µg/kg	10	NONE	-	-	-	-	-
O,p'-DDT	µg/kg	10	NONE	-	-	-	-	-
Parathion	µg/kg	10	NONE	-	-	-	-	-
Parathion-methyl	µg/kg	10	NONE	-	-	-	-	-
Pendimethalin	µg/kg	10	NONE	-	-	-	-	-
Phorate	µg/kg	10	NONE	-	-	-	-	-
Phosalone	µg/kg	10	NONE	-	-	-	-	-
P,p'-DDD	µg/kg	10	NONE	-	-	-	-	-
P,p'-DDE	µg/kg	10	NONE	-	-	-	-	-
P,p'-DDT	µg/kg	10	NONE	-	-	-	-	-
P,p'-Methoxychlor	µg/kg	10	NONE	-	-	-	-	-
Propyzamide	µg/kg	10	NONE	-	-	-	-	-
Triazophos	µg/kg	10	NONE	-	-	-	-	-
Trans-Chlordane	µg/kg	10	NONE	-	-	-	-	-
Cypermethrin (Sum)	µg/kg	10	NONE	-	-	-	-	-
Dichlorvos	µg/kg	10	NONE	-	-	-	-	-
Dimethoate	µg/kg	10	NONE	-	-	-	-	-
Diazinon	µg/kg	10	NONE	-	-	-	-	-
Ethion	µg/kg	10	NONE	-	-	-	-	-
Fenitrothion	µg/kg	10	NONE	-	-	-	-	-
Malathion	µg/kg	10	NONE	-	-	-	-	-
Pirimiphos-methyl	µg/kg	10	NONE	-	-	-	-	-
Trifluralin	µg/kg	10	NONE	-	-	-	-	-
Azinphos-ethyl	µg/kg	10	NONE	-	-	-	-	-

Analytical Report Number: 25-057957
Project / Site name: Eastern Way, Melksham
Your Order No: PO-01976

Lab Sample Number				729142	729143	729144	729145	729146
Sample Reference				WS107	WS107	WS108	WS109	WS109
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				N/A	N/A	N/A	N/A	N/A
Depth (m)				1.10	2.10	1.20	1.60	2.50
Date Sampled				21/10/2025	21/10/2025	21/10/2025	22/10/2025	22/10/2025
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					

Acid Herbicides

4-CPA	µg/kg	10	NONE	-	-	-	-	-
Dinoseb	µg/kg	10	NONE	-	-	-	-	-
Flamprop	µg/kg	10	NONE	-	-	-	-	-
Ioxynil	µg/kg	10	NONE	-	-	-	-	-
2,3,6-TBA	µg/kg	10	NONE	-	-	-	-	-
Bromacil	µg/kg	10	NONE	-	-	-	-	-
Diclofop	µg/kg	10	NONE	-	-	-	-	-
Flamprop-Isopropyl	µg/kg	10	NONE	-	-	-	-	-
MCPB (Mecoprop)	µg/kg	10	NONE	-	-	-	-	-
Bromoxynil	µg/kg	10	NONE	-	-	-	-	-
Dichlorprop	µg/kg	10	NONE	-	-	-	-	-
Clopyralid	µg/kg	10	NONE	-	-	-	-	-
2,4-D	µg/kg	10	NONE	-	-	-	-	-
2,4-DB	µg/kg	10	NONE	-	-	-	-	-
Dicamba	µg/kg	10	NONE	-	-	-	-	-
2,4,5-TP (Fenoprop)	µg/kg	10	NONE	-	-	-	-	-
MCPB	µg/kg	10	NONE	-	-	-	-	-
Picloram	µg/kg	10	NONE	-	-	-	-	-
2,4,5-T	µg/kg	10	NONE	-	-	-	-	-
MCPA	µg/kg	10	NONE	-	-	-	-	-

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 25-057957
Project / Site name: Eastern Way, Melksham
Your Order No: PO-01976

Lab Sample Number	729147			
Sample Reference	WS110			
Sample Number	None Supplied			
Water Matrix	N/A			
Depth (m)	2.20			
Date Sampled	22/10/2025			
Time Taken	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status	

Stone Content	%	0.1	NONE	< 0.1
Moisture Content	%	0.01	NONE	17
Total mass of sample received	kg	0.1	NONE	0.6

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	-
Asbestos Analyst ID	N/A	N/A	N/A	-
Analysis completed	N/A	N/A	N/A	-

General Inorganics

pH (L005B)	pH Units	N/A	MCERTS	-
pH (L099)	pH Units	N/A	MCERTS	8
Total Cyanide	mg/kg	1	MCERTS	-
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	3100
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	-
Water Soluble SO ₄ 16hr extraction (2:1)	mg/l	1.25	MCERTS	1540
Sulphide	mg/kg	1	MCERTS	-
Organic Matter (automated)	%	0.1	MCERTS	-
Total Organic Carbon (TOC) – Manual	%	0.1	MCERTS	-
Loss on Ignition @ 450°C	%	0.2	MCERTS	-
Acid Neutralisation Capacity	±/- mmol/kg	-9999	NONE	-

Total Phenols

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

Naphthalene	mg/kg	0.05	MCERTS	-
Acenaphthylene	mg/kg	0.05	MCERTS	-
Acenaphthene	mg/kg	0.05	MCERTS	-
Fluorene	mg/kg	0.05	MCERTS	-
Phenanthrene	mg/kg	0.05	MCERTS	-
Anthracene	mg/kg	0.05	MCERTS	-
Fluoranthene	mg/kg	0.05	MCERTS	-
Pyrene	mg/kg	0.05	MCERTS	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-
Chrysene	mg/kg	0.05	MCERTS	-
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	-
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-
Coronene	mg/kg	0.05	NONE	-

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	-
Total WAC-17 PAHs	mg/kg	0.85	NONE	-

Analytical Report Number: 25-057957
Project / Site name: Eastern Way, Melksham
Your Order No: PO-01976

Lab Sample Number	729147			
Sample Reference	WS110			
Sample Number	None Supplied			
Water Matrix	N/A			
Depth (m)	2.20			
Date Sampled	22/10/2025			
Time Taken	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status	

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	-
Boron (water soluble)	mg/kg	0.2	MCERTS	-
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	-
Chromium (hexavalent) Low Level	mg/kg	1.2	NONE	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	-
Copper (aqua regia extractable)	mg/kg	1	MCERTS	-
Lead (aqua regia extractable)	mg/kg	1	MCERTS	-
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	-
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	-
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	-
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	-

Petroleum Hydrocarbons

TPHCWG - Aliphatic >EC5 - EC6 _{HS_1D_AL}	mg/kg	0.01	MCERTS	-
TPHCWG - Aliphatic >EC6 - EC8 _{HS_1D_AL}	mg/kg	0.01	MCERTS	-
TPHCWG - Aliphatic >EC8 - EC10 _{HS_1D_AL}	mg/kg	0.01	MCERTS	-
TPHCWG - Aliphatic >EC10 - EC12 _{EH_CU_1D_AL}	mg/kg	1	MCERTS	-
TPHCWG - Aliphatic >EC12 - EC16 _{EH_CU_1D_AL}	mg/kg	2	MCERTS	-
TPHCWG - Aliphatic >EC16 - EC21 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	-
TPHCWG - Aliphatic >EC21 - EC35 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	-
TPHCWG - Aliphatic >EC5 - EC35 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	-

TPHCWG - Aromatic >EC5 - EC7 _{HS_1D_AR}	mg/kg	0.01	MCERTS	-
TPHCWG - Aromatic >EC7 - EC8 _{HS_1D_AR}	mg/kg	0.01	MCERTS	-
TPHCWG - Aromatic >EC8 - EC10 _{HS_1D_AR}	mg/kg	0.02	MCERTS	-
TPHCWG - Aromatic >EC10 - EC12 _{EH_CU_1D_AR}	mg/kg	1	MCERTS	-
TPHCWG - Aromatic >EC12 - EC16 _{EH_CU_1D_AR}	mg/kg	2	MCERTS	-
TPHCWG - Aromatic >EC16 - EC21 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	-
TPHCWG - Aromatic >EC21 - EC35 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	-
TPHCWG - Aromatic >EC5 - EC35 _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	-

Mineral Oil (EC10 - EC40) _{EH_CU_1D_AL}	mg/kg	10	NONE	-
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VOCs

MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	MCERTS	-
Benzene	µg/kg	5	MCERTS	-
Toluene	µg/kg	5	MCERTS	-
Ethylbenzene	µg/kg	5	MCERTS	-
p & m-Xylene	µg/kg	8	MCERTS	-
o-Xylene	µg/kg	5	MCERTS	-

Total BTEX	µg/kg	10	MCERTS	-
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Analytical Report Number: 25-057957
Project / Site name: Eastern Way, Melksham
Your Order No: PO-01976

Lab Sample Number				729147
Sample Reference				WS110
Sample Number				None Supplied
Water Matrix				N/A
Depth (m)				2.20
Date Sampled				22/10/2025
Time Taken				None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status	

PCBs by GC-MS

PCB Congener 28	mg/kg	0.001	MCERTS	-
PCB Congener 52	mg/kg	0.001	MCERTS	-
PCB Congener 101	mg/kg	0.001	MCERTS	-
PCB Congener 118	mg/kg	0.001	MCERTS	-
PCB Congener 138	mg/kg	0.001	MCERTS	-
PCB Congener 153	mg/kg	0.001	MCERTS	-
PCB Congener 180	mg/kg	0.001	MCERTS	-

Total PCBs	mg/kg	0.007	MCERTS	-
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Pesticides (GC-MS)

Alpha-BHC (Benzene Hexachloride)	µg/kg	10	NONE	-
Alachlor	µg/kg	10	NONE	-
Bifenthrin	µg/kg	10	NONE	-
Cyhalothrin (Lambda)	µg/kg	10	NONE	-
Gamma-BHC (Lindane, gamma HCH)	µg/kg	10	NONE	-
Omethoate	µg/kg	10	NONE	-
1,2,3-Trichlorobenzene	µg/kg	10	NONE	-
1,3,5-Trichlorobenzene	µg/kg	10	NONE	-
2,6-Dichlorobenzonitrile	µg/kg	10	NONE	-
Dimethylvinphos	µg/kg	10	NONE	-
Demeton-O	µg/kg	10	NONE	-
Demeton-S	µg/kg	10	NONE	-
Endrin Aldehyde	µg/kg	10	NONE	-
Endrin Ketone	µg/kg	10	NONE	-
Hexachlorobutadiene	µg/kg	10	NONE	-
Phosphamidon (Sum)	µg/kg	10	NONE	-
1,2,4,5-Tetrachlorobenzene	µg/kg	10	NONE	-
Cis-Permethrin	µg/kg	10	NONE	-
Endosulfan sulfate	µg/kg	10	NONE	-
Etrinfos	µg/kg	10	NONE	-
Fenvalerate (Sum)	µg/kg	10	NONE	-
Hexachlorobenzene	µg/kg	10	NONE	-
Mevinphos, E+Z	µg/kg	10	NONE	-
Pentachlorobenzene	µg/kg	10	NONE	-
Pirimiphos-ethyl	µg/kg	10	NONE	-
Propetamphos	µg/kg	10	NONE	-
Tecnazene	µg/kg	10	NONE	-
Triadimefon	µg/kg	10	NONE	-
Trans-Permethrin	µg/kg	10	NONE	-
Aldrin	µg/kg	10	NONE	-
Azinphos-methyl	µg/kg	10	NONE	-
Beta-BHC	µg/kg	10	NONE	-
Cis-Chlordane	µg/kg	10	NONE	-
Chlorfenvinphos	µg/kg	10	NONE	-
Chlorpyrifos	µg/kg	10	NONE	-
Chlorothalonil	µg/kg	10	NONE	-

Analytical Report Number: 25-057957
Project / Site name: Eastern Way, Melksham
Your Order No: PO-01976

Lab Sample Number				729147
Sample Reference				WS110
Sample Number				None Supplied
Water Matrix				N/A
Depth (m)				2.20
Date Sampled				22/10/2025
Time Taken				None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status	
Carbophenothion	µg/kg	10	NONE	-
Cyfluthrin (Sum)	µg/kg	10	NONE	-
Delta-BHC	µg/kg	10	NONE	-
Dieldrin	µg/kg	10	NONE	-
Deltamethrin	µg/kg	10	NONE	-
Heptachlor Exo-epoxide	µg/kg	10	NONE	-
Endrin	µg/kg	10	NONE	-
Endosulfan I (alpha isomer)	µg/kg	10	NONE	-
Endosulfan II (beta isomer)	µg/kg	10	NONE	-
Fenthion	µg/kg	10	NONE	-
Isodrin	µg/kg	10	NONE	-
Methacrifos	µg/kg	10	NONE	-
O,p'-DDD	µg/kg	10	NONE	-
O,p'-DDE	µg/kg	10	NONE	-
O,p'-DDT	µg/kg	10	NONE	-
Parathion	µg/kg	10	NONE	-
Parathion-methyl	µg/kg	10	NONE	-
Pendimethalin	µg/kg	10	NONE	-
Phorate	µg/kg	10	NONE	-
Phosalone	µg/kg	10	NONE	-
P,p'-DDD	µg/kg	10	NONE	-
P,p'-DDE	µg/kg	10	NONE	-
P,p'-DDT	µg/kg	10	NONE	-
P,p'-Methoxychlor	µg/kg	10	NONE	-
Propyzamide	µg/kg	10	NONE	-
Triazophos	µg/kg	10	NONE	-
Trans-Chlordane	µg/kg	10	NONE	-
Cypermethrin (Sum)	µg/kg	10	NONE	-
Dichlorvos	µg/kg	10	NONE	-
Dimethoate	µg/kg	10	NONE	-
Diazinon	µg/kg	10	NONE	-
Ethion	µg/kg	10	NONE	-
Fenitrothion	µg/kg	10	NONE	-
Malathion	µg/kg	10	NONE	-
Pirimiphos-methyl	µg/kg	10	NONE	-
Trifluralin	µg/kg	10	NONE	-
Azinphos-ethyl	µg/kg	10	NONE	-

Analytical Report Number: 25-057957
Project / Site name: Eastern Way, Melksham
Your Order No: PO-01976

Lab Sample Number				729147
Sample Reference				WS110
Sample Number				None Supplied
Water Matrix				N/A
Depth (m)				2.20
Date Sampled				22/10/2025
Time Taken				None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status	

Acid Herbicides

4-CPA	µg/kg	10	NONE	-
Dinoseb	µg/kg	10	NONE	-
Flamprop	µg/kg	10	NONE	-
Ioxynil	µg/kg	10	NONE	-
2,3,6-TBA	µg/kg	10	NONE	-
Bromacil	µg/kg	10	NONE	-
Diclofop	µg/kg	10	NONE	-
Flamprop-Isopropyl	µg/kg	10	NONE	-
MCPD (Mecoprop)	µg/kg	10	NONE	-
Bromoxynil	µg/kg	10	NONE	-
Dichlorprop	µg/kg	10	NONE	-
Clopyralid	µg/kg	10	NONE	-
2,4-D	µg/kg	10	NONE	-
2,4-DB	µg/kg	10	NONE	-
Dicamba	µg/kg	10	NONE	-
2,4,5-TP (Fenoprop)	µg/kg	10	NONE	-
MCPB	µg/kg	10	NONE	-
Picloram	µg/kg	10	NONE	-
2,4,5-T	µg/kg	10	NONE	-
MCPA	µg/kg	10	NONE	-

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

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Waste Acceptance Criteria Analytical Results							
Report No:	25-057957						
					Client: OBSIDIAN		
Location	Eastern Way, Melksham						
Lab Reference (Sample Number)	729135				Landfill Waste Acceptance Criteria		
Sampling Date	21/10/2025				Limits		
Sample ID	WS103				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill
Depth (m)	0.30						
Solid Waste Analysis							
TOC (%)**	2.8				3%	5%	6%
Loss on Ignition (%) **	8.2				--	--	10%
BTEX (µg/kg)**	< 10				6000	--	--
Sum of PCBs (mg/kg)**	< 0.007				1	--	--
Mineral Oil (mg/kg) EH_10_CU_AL	< 10				500	--	--
Total PAH (WAC-17) (mg/kg)	< 0.85				100	--	--
pH (units)**	7.5				--	>6	--
Acid Neutralisation Capacity (mmol / kg)	0.92				--	To be evaluated	To be evaluated
Eluate Analysis							
(BS EN 12457 - 3 preparation utilising end over end leaching procedure)	2:1	8:1		Cumulative 10:1	Limit values for compliance leaching test		
	mg/l		mg/l	mg/kg	using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
Arsenic *	< 0.0020	< 0.0020		< 0.020	0.5	2	25
Barium *	0.013	0.0051		0.057	20	100	300
Cadmium *	< 0.00010	< 0.00010		< 0.0010	0.04	1	5
Chromium *	0.0015	0.00087		0.0091	0.5	10	70
Copper *	0.021	0.029		0.29	2	50	100
Mercury *	< 0.00070	< 0.0007		< 0.0070	0.01	0.2	2
Molybdenum *	< 0.0014	< 0.0014		< 0.014	0.5	10	30
Nickel *	0.0025	< 0.00090		< 0.0090	0.4	10	40
Lead *	0.0022	0.0021		0.021	0.5	10	50
Antimony *	< 0.0020	< 0.0020		< 0.020	0.06	0.7	5
Selenium *	< 0.0050	< 0.0050		< 0.050	0.1	0.5	7
Zinc *	0.068	0.029		0.32	4	50	200
Chloride *	< 4.0	< 4.0		25	800	15000	25000
Fluoride*	0.15	0.21		2.1	10	150	500
Sulphate *	5.7	3.7		38	1000	20000	50000
TDS*	35	23		240	4000	60000	100000
Phenol Index (Monohydric Phenols) *	< 0.16	< 0.13		< 0.50	1	-	-
DOC	19.1	15		153	500	800	1000
Leach Test Information							
Stone Content (%)	< 0.1						
Sample Mass (kg)	2						
Dry Matter (%)	84						
Moisture (%)	16						
Stage 1							
Volume Eluate L2 (litres)	0.317						
Filtered Eluate VE1 (litres)	0.13						
Results are expressed on a dry weight basis, after correction for moisture content where applicable.					* = UKAS accredited (liquid eluate analysis only)		
Stated limits are for guidance only and i2 cannot be held responsible for any discrepancies with current legislation					** = MCERTS accredited		
Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes as defined by the Waste (England and Wales) Regulations 2011 (as amended) and EA Guidance WM3. This analysis is only applicable for landfill acceptance criteria (The Environmental Permitting (England and Wales) Regulations) and does not give any indication as to whether a waste may be hazardous or non hazardous.							
Where colour coding is used on this report, this is for guidance purposes only. This does not constitute a statement of conformity of pass or fail.							
Application of uncertainty of measurement would provide a range within which the true result lies. An estimate of measurement uncertainty can be provided on request.							

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email: reception@i2analytical.com

Waste Acceptance Criteria Analytical Results								
Report No:	25-057957							
					Client: OBSIDIAN			
Location	Eastern Way, Melksham				Landfill Waste Acceptance Criteria Limits Inert Waste Landfill Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill Hazardous Waste Landfill			
Lab Reference (Sample Number)	729136							
Sampling Date	21/10/2025							
Sample ID	WS106							
Depth (m)	0.60							
Solid Waste Analysis								
TOC (%)**	0.9				3%	5%	6%	
Loss on Ignition (%) **	5				--	--	10%	
BTEX (µg/kg)**	< 10				6000	--	--	
Sum of PCBs (mg/kg)**	< 0.007				1	--	--	
Mineral Oil (mg/kg) EH_10_CU_AL	< 10				500	--	--	
Total PAH (WAC-17) (mg/kg)	< 0.85				100	--	--	
pH (units)**	8.1				--	>6	--	
Acid Neutralisation Capacity (mmol / kg)	13				--	To be evaluated	To be evaluated	
Eluate Analysis								
(BS EN 12457 - 3 preparation utilising end over end leaching procedure)	2:1	8:1		Cumulative 10:1	Limit values for compliance leaching test			
	mg/l	mg/l		mg/kg	using BS EN 12457-3 at L/S 10 l/kg (mg/kg)			
Arsenic *	< 0.0020	0.0027		0.025	0.5	2	25	
Barium *	0.013	0.0051		0.061	20	100	300	
Cadmium *	< 0.00010	< 0.00010		< 0.0010	0.04	1	5	
Chromium *	< 0.00060	0.00084		0.0066	0.5	10	70	
Copper *	0.018	0.013		0.14	2	50	100	
Mercury *	< 0.00070	< 0.0007		< 0.0070	0.01	0.2	2	
Molybdenum *	< 0.0014	< 0.0014		< 0.014	0.5	10	30	
Nickel *	0.0015	< 0.00090		< 0.0090	0.4	10	40	
Lead *	< 0.0017	< 0.0017		< 0.017	0.5	10	50	
Antimony *	< 0.0020	< 0.0020		< 0.020	0.06	0.7	5	
Selenium *	< 0.0050	< 0.0050		< 0.050	0.1	0.5	7	
Zinc *	0.049	0.03		0.32	4	50	200	
Chloride *	4.8	< 4.0		21	800	15000	25000	
Fluoride*	1.1	1.6		15	10	150	500	
Sulphate *	68	19		250	1000	20000	50000	
TDS*	160	82		920	4000	60000	100000	
Phenol Index (Monohydric Phenols) *	< 0.16	< 0.13		< 0.50	1	-	-	
DOC	7.38	6.8		68.6	500	800	1000	
Leach Test Information								
Stone Content (%)	< 0.1							
Sample Mass (kg)	2							
Dry Matter (%)	82							
Moisture (%)	18							
Stage 1								
Volume Eluate L2 (litres)	0.303							
Filtered Eluate VE1 (litres)	0.22							
Results are expressed on a dry weight basis, after correction for moisture content where applicable.					* = UKAS accredited (liquid eluate analysis only)			
Stated limits are for guidance only and i2 cannot be held responsible for any discrepancies with current legislation					** = MCERTS accredited			
Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes as defined by the Waste (England and Wales) Regulations 2011 (as amended) and EA Guidance WM3. This analysis is only applicable for landfill acceptance criteria (The Environmental Permitting (England and Wales) Regulations) and does not give any indication as to whether a waste may be hazardous or non-hazardous.								
Where colour coding is used on this report, this is for guidance purposes only. This does not constitute a statement of conformity of pass or fail.								
Application of uncertainty of measurement would provide a range within which the true result lies. An estimate of measurement uncertainty can be provided on request.								

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Waste Acceptance Criteria Analytical Results							
Report No:	25-057957						
					Client: OBSIDIAN		
Location	Eastern Way, Melksham						
Lab Reference (Sample Number)	729137				Landfill Waste Acceptance Criteria		
Sampling Date	21/10/2025				Limits		
Sample ID	WS110				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill
Depth (m)	0.30						
Solid Waste Analysis							
TOC (%)**	0.8				3%	5%	6%
Loss on Ignition (%) **	6				--	--	10%
BTEX (µg/kg)**	< 10				6000	--	--
Sum of PCBs (mg/kg)**	< 0.007				1	--	--
Mineral Oil (mg/kg) EH_10_CU_AL	< 10				500	--	--
Total PAH (WAC-17) (mg/kg)	< 0.85				100	--	--
pH (units)**	7.6				--	>6	--
Acid Neutralisation Capacity (mmol / kg)	0.69				--	To be evaluated	To be evaluated
Eluate Analysis							
(BS EN 12457 - 3 preparation utilising end over end leaching procedure)	2:1	8:1		Cumulative 10:1	Limit values for compliance leaching test		
	mg/l		mg/l	mg/kg	using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
Arsenic *	< 0.0020	< 0.0020		< 0.020	0.5	2	25
Barium *	0.0094	0.011		0.11	20	100	300
Cadmium *	< 0.00010	0.00021		0.0019	0.04	1	5
Chromium *	< 0.00060	0.00088		0.0082	0.5	10	70
Copper *	0.017	0.0072		0.078	2	50	100
Mercury *	< 0.00070	< 0.0007		< 0.0070	0.01	0.2	2
Molybdenum *	< 0.0014	< 0.0014		< 0.014	0.5	10	30
Nickel *	0.0013	0.0012		0.012	0.4	10	40
Lead *	< 0.0017	0.003		0.028	0.5	10	50
Antimony *	0.0028	< 0.0020		< 0.020	0.06	0.7	5
Selenium *	< 0.0050	< 0.0050		< 0.050	0.1	0.5	7
Zinc *	0.091	0.047		0.5	4	50	200
Chloride *	4.4	< 4.0		26	800	15000	25000
Fluoride*	0.21	0.16		1.6	10	150	500
Sulphate *	11	5.7		60	1000	20000	50000
TDS*	50	76		750	4000	60000	100000
Phenol Index (Monohydric Phenols) *	< 0.16	< 0.13		< 0.50	1	-	-
DOC	26.4	8.2		93.7	500	800	1000
Leach Test Information							
Stone Content (%)	< 0.1						
Sample Mass (kg)	2						
Dry Matter (%)	80						
Moisture (%)	20						
Stage 1							
Volume Eluate L2 (litres)	0.298						
Filtered Eluate VE1 (litres)	0.11						
Results are expressed on a dry weight basis, after correction for moisture content where applicable.							
Stated limits are for guidance only and i2 cannot be held responsible for any discrepancies with current legislation							
Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes as defined by the Waste (England and Wales) Regulations 2011 (as amended) and EA Guidance WM3. This analysis is only applicable for landfill acceptance criteria (The Environmental Permitting (England and Wales) Regulations) and does not give any indication as to whether a waste may be hazardous or non-hazardous.							
Where colour coding is used on this report, this is for guidance purposes only. This does not constitute a statement of conformity of pass or fail.							
Application of uncertainty of measurement would provide a range within which the true result lies. An estimate of measurement uncertainty can be provided on request.							

Analytical Report Number : 25-057957

Project / Site name: Eastern Way, Melksham

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

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

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
729127	WS101	None Supplied	0.05	Brown loam and clay with gravel and vegetation
729128	WS101	None Supplied	0.2	Brown clay and loam with gravel and vegetation
729129	WS102	None Supplied	0.2	Brown loam and clay with gravel and vegetation
729130	WS107	None Supplied	0.05	Brown loam and clay with gravel and vegetation
729131	WS108	None Supplied	0.05	Brown loam and clay with vegetation
729132	WS109	None Supplied	0.4	Brown clay and loam with vegetation
729133	WS111	None Supplied	0.05	Brown loam and clay with vegetation
729134	WS112	None Supplied	0.2	Brown clay and loam with vegetation
729135	WS103	None Supplied	0.3	Brown clay and loam with gravel and vegetation
729136	WS106	None Supplied	0.6	Brown clay
729137	WS110	None Supplied	0.3	Brown clay and loam
729138	WS103	None Supplied	1.5	Brown clay with vegetation
729139	WS104	None Supplied	0.7	Brown clay and sand
729140	WS106	None Supplied	1.3	Brown clay
729141	WS106	None Supplied	2.3	Brown clay
729142	WS107	None Supplied	1.1	Brown clay
729143	WS107	None Supplied	2.1	Brown clay
729144	WS108	None Supplied	1.2	Brown clay
729145	WS109	None Supplied	1.6	Brown clay
729146	WS109	None Supplied	2.5	Brown clay
729147	WS110	None Supplied	2.2	Brown clay

Analytical Report Number : 25-057957

Project / Site name: Eastern Way, Melksham

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Asbestos identification in Soil	Asbestos Identification with the use of polarised light microscopy in conjunction with dispersion staining techniques	In-house method based on HSG 248, 2021	A001B	D	ISO 17025
Organic matter (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method)	In-house method	L009B	D	MCERTS
Sulphide in soil	Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode	In-house method	L010-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically (up to 30°C)	In-house method	L019B	W	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight	In-house method based on British Standard Methods and MCERTS requirements.	L019B	D	NONE
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil	L038B	D	MCERTS
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES	In-house method based on Second Site Properties version 3	L038B	D	MCERTS
Sulphate, water soluble, in soil (16hr extraction)	Sulphate, water soluble, in soil (16hr extraction)	In-house method	L038B	D	MCERTS
Pesticides by GC-MS/MS	Determination of Pesticides in soil by GC MS/MS	In-house method	L055B	W	NONE
Acid Herbicides by LC-MS	Determination of Acid Herbicides in soil by LC -MS	In-house method	PL	W	NONE
Speciated PAHs and/or Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds (including PAH) in soil by extraction in dichloromethane and hexane followed by GC-MS	In-house method based on USEPA 8270	L064B	D	MCERTS
Hexavalent chromium in soil (low level)	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry	In-house method	L080-PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	MCERTS
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement	In-house method	L099-PL	D	MCERTS
Soil Descriptions	Textural classification	In-house method	L019B	W	NONE

Analytical Report Number : 25-057957

Project / Site name: Eastern Way, Melksham

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
BTEX and/or Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS	In-house method based on USEPA 8260	L073B	W	MCERTS
Total petroleum hydrocarbons with carbon banding by GC-FID in soil	Determination of total petroleum hydrocarbons in soil by GC-FID with carbon banding aliphatic and aromatic	In-house method	L076B	D	MCERTS
Total petroleum hydrocarbons with carbon banding by GC-FID/GC-MS HS in soil (Summed Bands)	Determination of total petroleum hydrocarbons in soil by GC-FID/GC-MS HS with carbon banding aliphatic and aromatic (Summed Bands).	Calculation	L076B/L088-PL	D/W	NONE
Total petroleum hydrocarbons with carbon banding by HS-GC/MS in soil	Determination of total petroleum hydrocarbons in soil by HS-GC/MS with carbon banding aliphatic and aromatic	In-house method	L088-PL	W	MCERTS
pH at 20°C in soil	Determination of pH in soil by addition of water followed by electrometric measurement	In-house method	L005B	W	MCERTS
Total organic carbon in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method)	In-house method	L023B	D	MCERTS
PCB's By GC-MS in soil	Determination of PCB by extraction with hexane followed by GC-MS	In-house method based on USEPA 8082	L027B	D	MCERTS
TDS in WAC leachate (BS EN 12457-3 Prep)	Determination of total dissolved solids in leachate by electrometric measurement	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.	L031B	W	ISO 17025
Fluoride in WAC leachate (BS EN 12457-3 Prep)	Determination of fluoride in leachate by 1:1ratio with a buffer solution followed by Ion Selective Electrode	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.	L033B	W	ISO 17025
DOC in WAC leachate (BS EN 12457-3 Prep)	Determination of dissolved organic carbon in leachate by TOC/DOC NDIR analyser	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.	L037B	W	NONE
Metals in WAC leachate (BS EN 12457-3 Prep)	Determination of metals in leachate by acidification followed by ICP-OES	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed	L039B	W	ISO 17025
Sulphate in WAC leachate (BS EN 12457-3 Prep)	Determination of sulphate in leachate by acidification followed by ICP-OES	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed	L039B	W	ISO 17025
Two stage WAC leachate preparation	Two stage batch test at a liquid to solid ratio of 2 L/kg and 8 L/kg	BS EN 12457-3-2002	L043B	W	ISO 17025
Acid neutralisation capacity of soil	Determination of acid neutralisation capacity by addition of acid or alkali followed by electronic probe	In-house method based on Guidance on Sampling and Testing of Wastes to Meet Landfill Waste Acceptance	L046B	W	NONE
Loss on ignition of soil @ 450°C	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace	In-house method	L047-PL	D	MCERTS
Total petroleum hydrocarbons by GC-FID in soil	Determination of total petroleum hydrocarbons in soil by GC-FID	In-house method	L076B	D	NONE

Analytical Report Number : 25-057957

Project / Site name: Eastern Way, Melksham

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Phenol Index in WAC leachate (BS EN 12457-3 Prep)	Determination of monohydric phenols in leachate by continuous flow analyser	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	ISO 17025
Chloride in WAC leachate (BS EN 12457-3 Prep)	Determination of Chloride colorimetrically by discrete analyser	In-house based on MEWAM Method ISBN 0117516260	L082B	W	ISO 17025

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).

For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).

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

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

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

Information in Support of Analytical Results

List of HWOL Acronyms and Operators

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

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution

Appendix D

Geotechnical Laboratory Analysis Results



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10 November 2025

Report No : GEO/43632/01

Page 1 of 1

Obsidian Geo-Consulting Limited
Unit C4 Castle Vale Enterprise Park
Park Lane
Birmingham
B35 6LJ

For the attention of Ms N Kimber

Our ref **GEO / 43632**
Your ref **24-1905-P**
Order ref **PO-01975**

Date samples received 28/10/2025
Date written instructions received 28/10/2025
Date testing commenced 29/10/2025
Date of sample disposal 08/12/2025

Project **EASTERN WAY, MELKSHAM**

Further to your instructions we have pleasure in enclosing the results of the tests you requested in the attached figures.

LABORATORY TEST REPORT

Item No	Test Quantity	Description
1	~	Liquid & Plastic Limits Summary
~	6	Water Content
2	6	Liquid & Plastic Limits

Any opinions or interpretations expressed herein are outside the scope of UKAS accreditation. All results contained in this report are provisional and may be subject to change unless signed by an approved signatory. The results contained in this report relate only to samples received in the laboratory and are tested 'as received' unless otherwise stated. This report should not be reproduced, except in full, without the written approval of the laboratory. The results reported are applicable only to the test items received by the laboratory.

All the necessary data required by the documented test procedures has been recorded and will be stored for a period of not less than 6 years. This data will be issued to yourselves at your request. All samples will be disposed of after the date shown above. Written confirmation will be required to retain the samples beyond this period and a storage charge may be applied.

We trust that the above meets your requirements and should you require any further information or assistance, please do not hesitate to contact us.

Yours faithfully
on behalf of **GEOLABS Limited**



J A Reynolds
Director

SUMMARY OF LIQUID AND PLASTIC LIMIT TESTS

Location	Depth m	Sample Ref	Sample Type	Description	Water Content BS EN ISO 17892-1 : 2014 +A1:2022 %	Liquid Limit %	Plastic Limit %	Plasticity Index %	Percentage Passing 425µm %	Atterberg Classification BS EN ISO 14688-2:2018	Test Type	Sample Condition
WS102	1.90		D	Greyish brown mottled grey CLAY.	26.7	56	23	33	100	CIH	2	1
WS103	1.10		D	Greyish brown mottled grey CLAY.	20.9	55	23	32	100	CIH	2	1
WS104	2.30		D	Brown mottled grey CLAY with rare fine gravel.	26.0	51	23	28	95	CIH	2	1
WS107	1.50		D	Greyish brown mottled grey CLAY with rare glass fragments.	26.5	54	24	30	99	CIH	2	1
WS109	2.10		D	Brown mottled grey CLAY.	26.3	50	24	26	100	CIM	2	1
WS110	1.70		D	Brown mottled grey CLAY.	24.6	48	20	28	100	CIM	1	1

Test Type: 1 - 1 point 80g / 30° fall cone method.
2 - 4 point 80g / 30° fall cone method.

Sample condition: 1 - As Received
2 - Air Dried
3 - Washed & Air Dried

Checked and Approved by:



J A Reynolds - Director
10/11/2025

Project Number:

GEO / 43632

Project Name:

**EASTERN WAY, MELKSHAM
24-1905-P**



LIQUID AND PLASTIC LIMITS

Location WS102
Depth (m) 1.90
Sample Type D

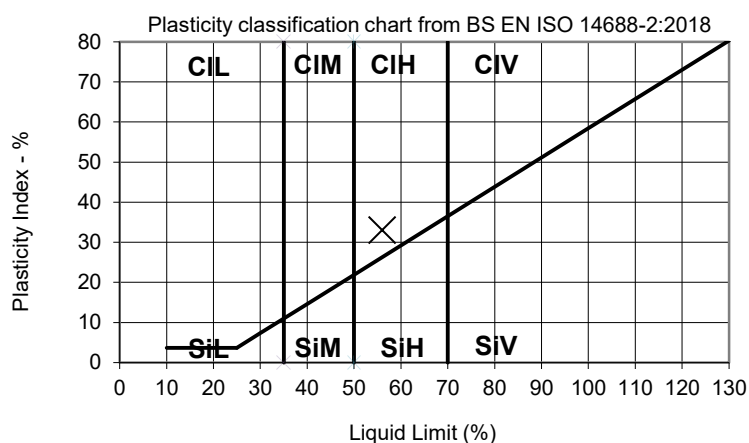
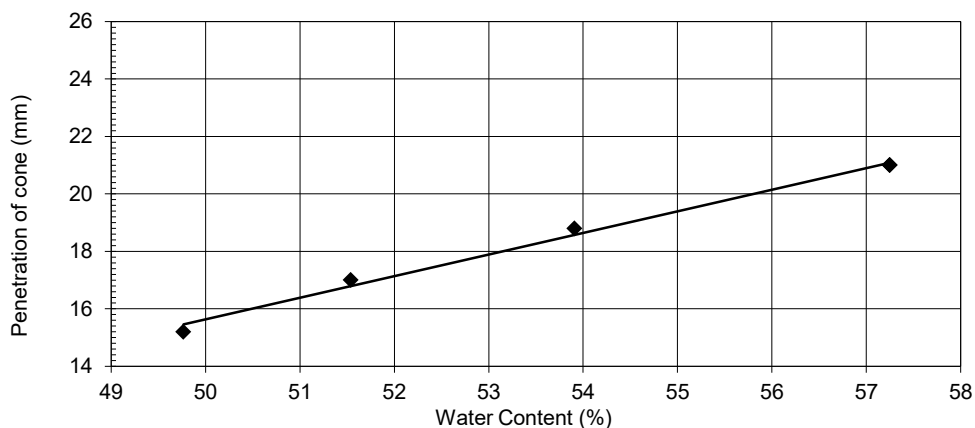
Description:

Greyish brown mottled grey CLAY.

Preparation : Sample as received.

Water Content : (BS EN ISO 17892-1:2014+A1:2022) 26.7 %
Estimated percentage passing 425µm sieve : 100 %
Liquid Limit - Fall Cone 4 point Method (cone angle 30°) with increasing water content : 56 %
Plastic Limit : 23 %
Plasticity Index : 33 %

Equivalent Water Content of material passing 425µm sieve : 26.7 %
Liquidity Index : 0.11



Tested by BM
Checked and Approved by

J A Reynolds

J A Reynolds - Director
10/11/2025

Project Number:

GEO / 43632

Project Name:

EASTERN WAY, MELKSHAM
24-1905-P



LIQUID AND PLASTIC LIMITS

Location WS103
Depth (m) 1.10
Sample Type D

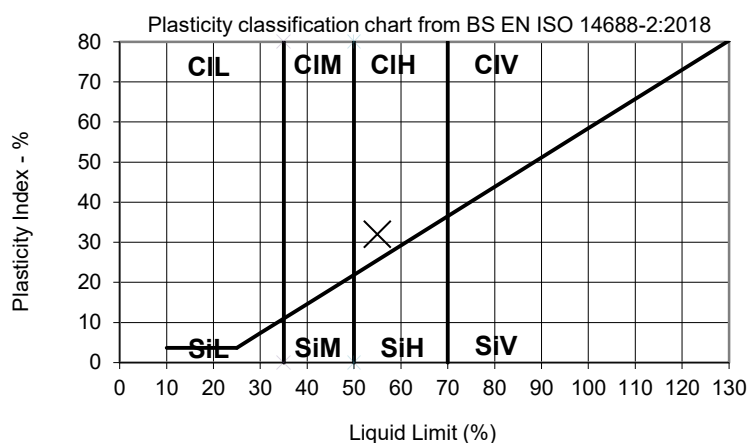
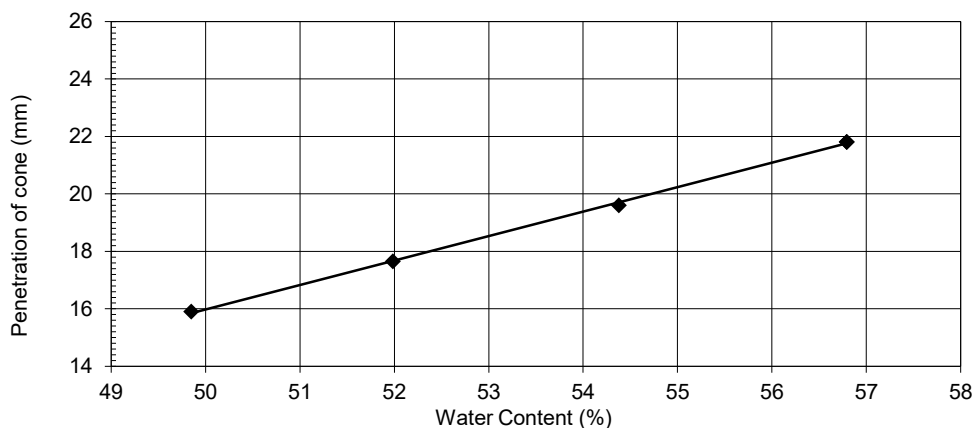
Description:

Greyish brown mottled grey CLAY.

Preparation : Sample as received.

Water Content : (BS EN ISO 17892-1:2014+A1:2022) 20.9 %
Estimated percentage passing 425µm sieve : 100 %
Liquid Limit - Fall Cone 4 point Method (cone angle 30°) with increasing water content : 55 %
Plastic Limit : 23 %
Plasticity Index : 32 %

Equivalent Water Content of material passing 425µm sieve : 20.9 %
Liquidity Index : -0.07



Tested by AJ
Checked and Approved by

J A Reynolds

J A Reynolds - Director
10/11/2025

Project Number:

GEO / 43632

Project Name:

EASTERN WAY, MELKSHAM
24-1905-P



LIQUID AND PLASTIC LIMITS

Location WS104
Depth (m) 2.30
Sample Type D

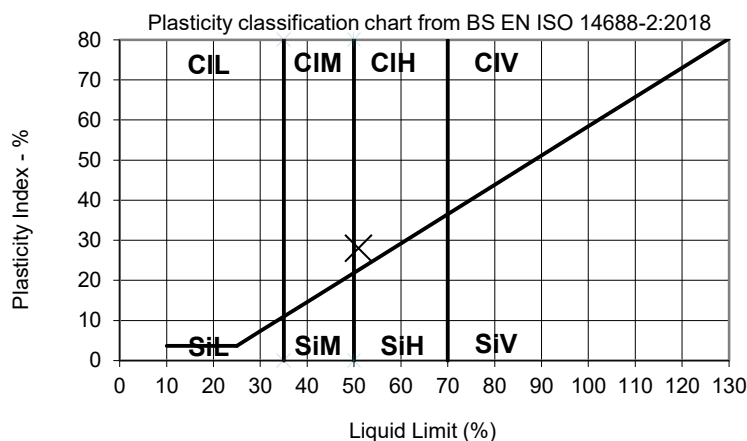
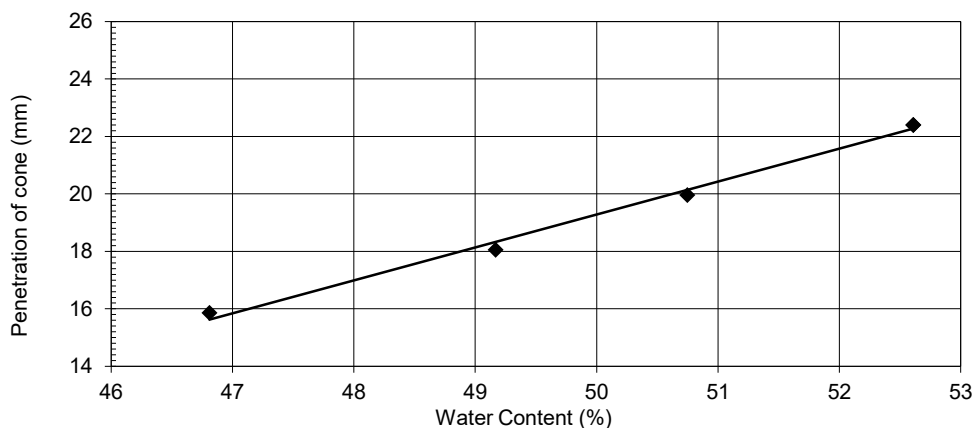
Description:

Brown mottled grey CLAY with rare fine gravel.

Preparation : Sample as received with discrete coarse particles removed by hand.

Water Content : (BS EN ISO 17892-1:2014+A1:2022) 26.0 %
Estimated percentage passing 425µm sieve : 95 %
Liquid Limit - Fall Cone 4 point Method (cone angle 30°) with increasing water content : 51 %
Plastic Limit : 23 %
Plasticity Index : 28 %

Equivalent Water Content of material passing 425µm sieve : 27.4 %
Liquidity Index : 0.16



Tested by AJ
Checked and Approved by

J A Reynolds

J A Reynolds - Director
10/11/2025

Project Number:

GEO / 43632

Project Name:

**EASTERN WAY, MELKSHAM
24-1905-P**



LIQUID AND PLASTIC LIMITS

Location WS107
Depth (m) 1.50
Sample Type D

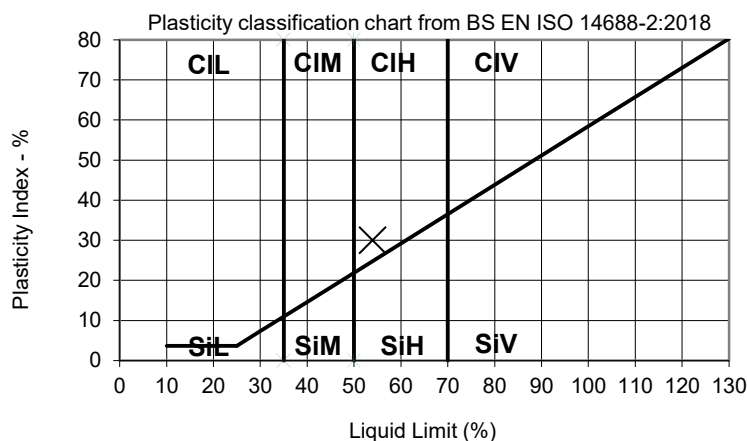
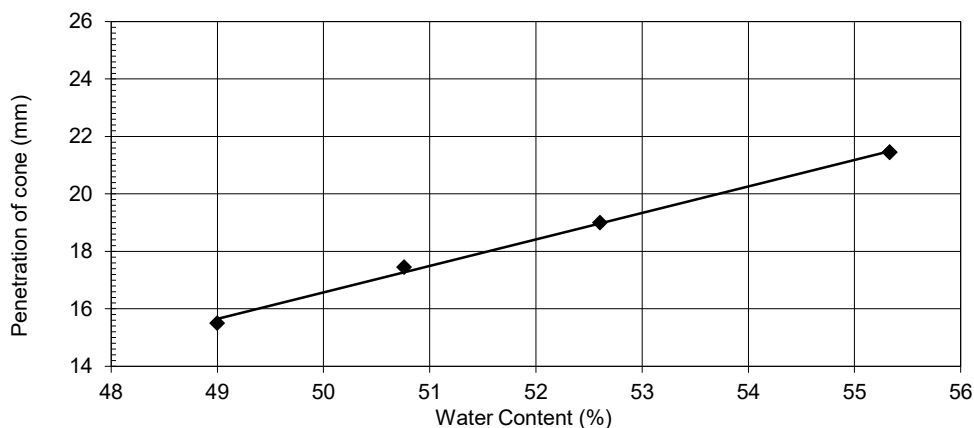
Description:

Greyish brown mottled grey CLAY with rare glass fragments.

Preparation : Sample as received with discrete coarse particles removed by hand.

Water Content : (BS EN ISO 17892-1:2014+A1:2022) 26.5 %
Estimated percentage passing 425µm sieve : 99 %
Liquid Limit - Fall Cone 4 point Method (cone angle 30°) with increasing water content : 54 %
Plastic Limit : 24 %
Plasticity Index : 30 %

Equivalent Water Content of material passing 425µm sieve : 26.8 %
Liquidity Index : 0.09



Tested by AJ
Checked and Approved by

J A Reynolds

J A Reynolds - Director
10/11/2025

Project Number:

GEO / 43632

Project Name:

**EASTERN WAY, MELKSHAM
24-1905-P**



LIQUID AND PLASTIC LIMITS

Location WS109
Depth (m) 2.10
Sample Type D

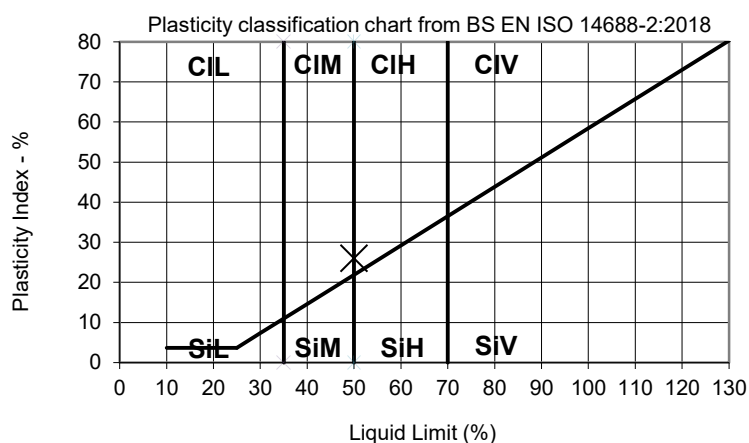
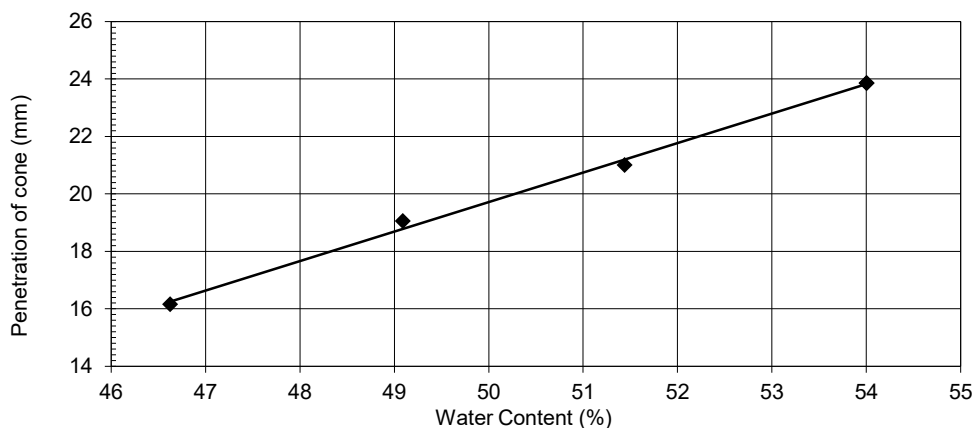
Description:

Brown mottled grey CLAY.

Preparation : Sample as received.

Water Content : (BS EN ISO 17892-1:2014+A1:2022) 26.3 %
Estimated percentage passing 425µm sieve : 100 %
Liquid Limit - Fall Cone 4 point Method (cone angle 30°) with increasing water content : 50 %
Plastic Limit : 24 %
Plasticity Index : 26 %

Equivalent Water Content of material passing 425µm sieve : 26.3 %
Liquidity Index : 0.09



Tested by AJ
Checked and Approved by

J A Reynolds

J A Reynolds - Director
10/11/2025

Project Number:

GEO / 43632

Project Name:

EASTERN WAY, MELKSHAM
24-1905-P



LIQUID AND PLASTIC LIMITS

Location WS110
Depth (m) 1.70
Sample Type D

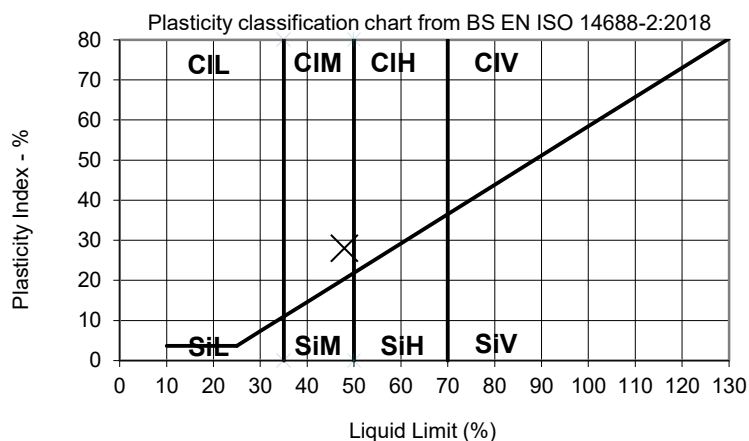
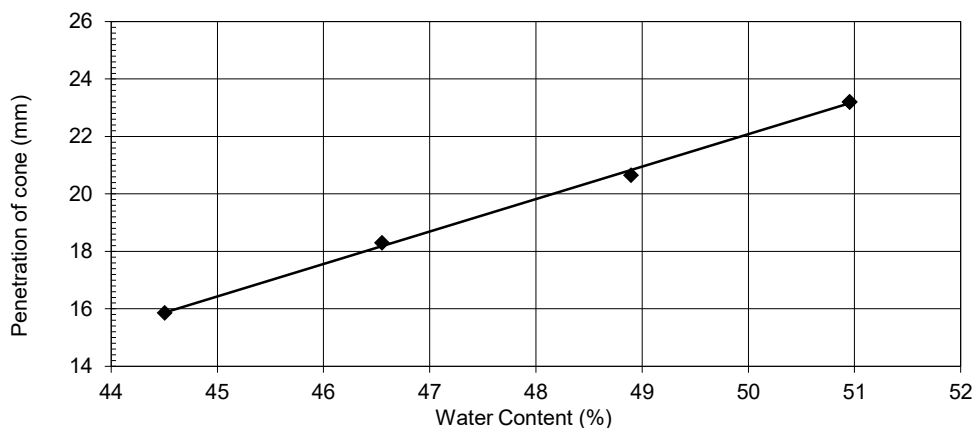
Description:

Brown mottled grey CLAY.

Preparation : Sample as received.

Water Content : (BS EN ISO 17892-1:2014+A1:2022) 24.6 %
Estimated percentage passing 425µm sieve : 100 %
Liquid Limit - Fall Cone 4 point Method (cone angle 30°) with increasing water content : 48 %
Plastic Limit : 20 %
Plasticity Index : 28 %

Equivalent Water Content of material passing 425µm sieve : 24.6 %
Liquidity Index : 0.16



Tested by BM
Checked and Approved by

J A Reynolds - Director
10/11/2025

Project Number:

GEO / 43632

Project Name:

**EASTERN WAY, MELKSHAM
24-1905-P**

Appendix E
OB-Screen Human Health Screening
Assessment



OBScreen Human Health Screening Assessment

Project Name:	Lidl, Eastern Way, Melksham
Project Number:	24-1905-P
Assessment Date:	10/11/2025
End Use Scenario:	Commercial

Project Name:	Lidl, Eastern Way, Melksham
Project Number:	24-1905-P
End Use Scenario:	Commercial

Metals & Asbestos		Exploratory Hole Ref		WS101	WS101	WS102	WS107	WS108	WS109	WS111	WS112
		Additional Ref									
		Sample Depth (m)		0.05	0.2	0.2	0.05	0.05	0.4	0.05	0.2
Determinand	Screening Value	Source	Units								
Arsenic (As)	640	C4SL	mg/kg	8.9	17	16	11	13	15	12	17
W/S Boron	240,000	S4UL	mg/kg	0.4	0.6	2	1.9	1.9	1.8	2.8	1.8
Cadmium (Cd)	410	C4SL	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2	0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	49	C4SL	mg/kg	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
Copper (Cu)	68,000	S4UL	mg/kg	14	17	14	16	15	15	21	17
Lead (Pb)	2,300	C4SL	mg/kg	30	35	38	35	42	50	53	28
Mercury (Hg)	1,100	S4UL	mg/kg	< 0.3	< 0.3	< 0.3	0.8	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (Ni)	980	S4UL	mg/kg	11	26	23	13	20	24	21	30
Selenium (Se)	12,000	S4UL	mg/kg	< 1.0	< 1.0	< 1.0	1	< 1.0	< 1.0	< 1.0	1.8
Zinc (Zn)	730,000	S4UL	mg/kg	60	76	82	66	96	82	110	79
Cyanide	34	OBScreen	mg/kg	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Asbestos Screen	Detection	OBScreen	-	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
Asbestos Quantification	Detection	OBScreen	%								

Concentrations Highlighted in Red Exceed their Adopted Screening Value

Project Name:	Lidl, Eastern Way, Melksham
Project Number:	24-1905-P
End Use Scenario:	Commercial

PAH		Exploratory Hole Ref		WS101	WS101	WS102	WS107	WS108	WS109	WS111	WS112	WS103	WS106	WS110
Based on 6.0% SOM		Additional Ref												
		Sample Depth (m)		0.05	0.2	0.2	0.05	0.05	0.4	0.05	0.2	0.3	0.6	0.3
Determinand	Screening Value	Source	Units											
Naphthalene	460	S4UL	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	100,000	S4UL	mg/kg	0.07	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	100,000	S4UL	mg/kg	0.08	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	71,000	S4UL	mg/kg	0.08	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	23,000	S4UL	mg/kg	0.77	< 0.05	< 0.05	0.11	0.06	< 0.05	0.12	< 0.05	< 0.05	< 0.05	< 0.05
Anthracene	540,000	S4UL	mg/kg	0.23	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluoranthene	23,000	S4UL	mg/kg	1.5	< 0.05	0.07	0.31	0.27	< 0.05	0.42	0.06	0.08	< 0.05	< 0.05
Pyrene	54,000	S4UL	mg/kg	1.3	< 0.05	0.06	0.29	0.28	0.06	0.39	0.06	0.09	< 0.05	< 0.05
Benzo(a)anthracene	180	S4UL	mg/kg	0.72	< 0.05	< 0.05	0.18	0.27	< 0.05	0.31	< 0.05	0.05	< 0.05	< 0.05
Chrysene	350	S4UL	mg/kg	0.66	< 0.05	< 0.05	0.2	0.2	< 0.05	0.32	< 0.05	0.07	< 0.05	< 0.05
Benzo(b)fluoranthene	45	S4UL	mg/kg	0.69	< 0.05	< 0.05	0.26	0.44	< 0.05	0.45	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(k)fluoranthene	1,200	S4UL	mg/kg	0.37	< 0.05	< 0.05	0.09	0.13	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	36	S4UL	mg/kg	0.62	< 0.05	< 0.05	0.2	0.28	< 0.05	0.35	< 0.05	< 0.05	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	510	S4UL	mg/kg	0.28	< 0.05	< 0.05	0.1	0.14	< 0.05	0.16	< 0.05	< 0.05	< 0.05	< 0.05
Dibenz(a,h)anthracene	3.6	S4UL	mg/kg	0.06	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	4,000	S4UL	mg/kg	0.29	< 0.05	< 0.05	0.1	0.18	< 0.05	0.19	< 0.05	< 0.05	< 0.05	< 0.05
Total Phenols (monohydric)	1300	S4UL	mg/kg	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			

Concentrations Highlighted in Red Exceed their Adopted Screening Value

Project Name:	Lidl, Eastern Way, Melksham
Project Number:	24-1905-P
End Use Scenario:	Commercial

TPH, BTEX & MTBE Based on 6.0% SOM		Exploratory Hole Ref		WS102	WS109	WS103	WS106	WS110
		Additional Ref		WAC			WAC	WAC
		Sample Depth (m)		0.20	0.40	0.3	0.6	0.3
Determinand	Screening Value	Source	Units					
TPH								
Aliphatic >C5 - C6	12,000	S4UL	mg/kg	< 0.010	< 0.010			
Aliphatic >C6 - C8	40,000	S4UL	mg/kg	< 0.010	< 0.010			
Aliphatic >C8 - C10	11,000	S4UL	mg/kg	< 0.010	< 0.010			
Aliphatic >C10 - C12	47,000	S4UL	mg/kg	< 1.0	< 1.0			
Aliphatic >C12 - C16	90,000	S4UL	mg/kg	< 2.0	< 2.0			
Aliphatic >C16 - C21	1,800,000	S4UL	mg/kg	< 8.0	< 8.0			
Aliphatic >C21 - C34	1,800,000	S4UL	mg/kg	< 8.0	< 8.0			
Aromatic >C5 - C7	98	C4SL Benzene	mg/kg	< 0.010	< 0.010			
Aromatic >C7 - C8	180,000	S4UL	mg/kg	< 0.010	< 0.010			
Aromatic >C8 - C10	17,000	S4UL	mg/kg	< 0.020	< 0.020			
Aromatic >C10 - C12	34,000	S4UL	mg/kg	< 1.0	< 1.0			
Aromatic >C12 - C16	38,000	S4UL	mg/kg	< 2.0	< 2.0			
Aromatic >C16 - C21	28,000	S4UL	mg/kg	< 10	< 10			
Aromatic >C21 - C35	28,000	S4UL	mg/kg	< 10	< 10			
BTEX & MTBE								
Benzene	98,000	C4SL	ug/kg	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	180,000,000	S4UL	ug/kg	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Ethylbenzene	27,000,000	S4UL	ug/kg	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
m & p-xylene	30,000,000	S4UL	ug/kg	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
o-xylene	33,000,000	S4UL	ug/kg	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
MTBE	13,000,000	EIC/AGS/CL:AIRE	ug/kg	< 5.0	< 5.0			

Concentrations Highlighted in Red Exceed their Adopted Screening Value

LQM S4UL Publication Ref: S4UL3698

Obsidian Geo-Consulting Limited©

Appendix F

Ground Gas Monitoring Results



Ground Gas and Groundwater Monitoring Results



Project Name:	Lidl, Eastern Way, Melksham
Project Number:	24-1905-P
Client:	Lidl Great Britain Ltd

Date:	27/10/2025
Visit:	1 of 4

Barometric Pressure (mb)	
Start:	1001
Finish:	1003
Trend:	Rising

Ambient Concentration (% vol)	
CH ₄ :	ND
CO ₂ :	ND
O ₂ :	20.8

Monitoring Equipment:	GFM436 Gas Analyser
Weather Conditions:	Sunny, cloudy and 9°C
Surface Conditions:	Dry
Operator:	SM

Key	
ND =	Not detected
NGW =	No groundwater encountered

[illegible]

Ground Gas and Groundwater Monitoring Results



Project Name:	Lidl, Eastern Way, Melksham
Project Number:	24-1905-P
Client:	Lidl Great Britain Ltd

Date:	11/06/2025
Visit:	2 of 4

<u>Barometric Pressure (mb)</u>	
Start:	998
Finish:	998
Trend:	Rising

Ambient Concentration (% vol)	
CH ₄ :	ND
CO ₂ :	0.1
O ₂ :	20.5

Monitoring Equipment:	GFM436 Gas Analyser
Weather Conditions:	Cloudy, dry and 16°C
Surface Conditions:	Dry
Operator:	SM

Key	
ND =	Not detected
NGW =	No groundwater encountered

[illegible]

Ground Gas and Groundwater Monitoring Results



Project Name:	Lidl, Eastern Way, Melksham
Project Number:	24-1905-P
Client:	Lidl Great Britain Ltd

Date:	11/12/2025
Visit:	3 of 4

<u>Barometric Pressure (mb)</u>	
Start:	995
Finish:	995
Trend:	Falling

Ambient Concentration (% vol)	
CH ₄ :	ND
CO ₂ :	ND
O ₂ :	20.8

Monitoring Equipment:	GFM436 Gas Analyser
Weather Conditions:	Cloudy, windy, and 14°C
Surface Conditions:	Wet
Operator:	SM

Key	
ND =	Not detected
NGW =	No groundwater encountered

[illegible]

Ground Gas and Groundwater Monitoring Results



Project Name:	Lidl, Eastern Way, Melksham
Project Number:	24-1905-P
Client:	Lidl Great Britain Ltd

Date:	21/11/2025
Visit:	4 of 4

Barometric Pressure (mb)	
Start:	1021
Finish:	1022
Trend:	Rising

Ambient Concentration (% vol)	
CH ₄ :	ND
CO ₂ :	ND
O ₂ :	20.8

Monitoring Equipment:	GFM436 Gas Analyser
Weather Conditions:	Sunny and 4°C
Surface Conditions:	Dry
Operator:	SM

Key	
ND =	Not detected
NGW =	No groundwater encountered

[illegible]

Appendix G

TRL DCP Results



TRL DCP Field Test Record Sheet



Project Name:	Lidl, Eastern Way, Melksham
Project Number:	24-1905-P
Client:	Lidl Great Britain Ltd
TRL DCP Ref:	DCP01
Depth at Start of Test (mm bgl):	0mm
Date:	21/10/2025
Comments:	Test undertaken from ground level.

Blow	Reading on Scale (mm)	Depth (mm bgl)	Penetration (mm)
0	150	0	0
1	230	80	80
2	257	107	27
3	285	135	28
4	309	159	24
5	336	186	27
6	365	215	29
7	390	240	25
8	420	270	30
9	447	297	27
10	475	325	28
11	502	352	27
12	530	380	28
13	555	405	25
14	580	430	25
15	607	457	27
16	634	484	27
17	654	504	20
18	684	534	30
19	711	561	27
20	740	590	29
21	765	615	25
22	790	640	25
23	811	661	21
24	835	685	24
25	857	707	22
26	880	730	23
27	900	750	20
28	920	770	20
29	940	790	20
30	950	800	10
31	-	-	-
32	-	-	-
33	-	-	-
34	-	-	-
35	-	-	-
36	-	-	-
37	-	-	-
38	-	-	-
39	-	-	-
40	-	-	-
41	-	-	-
42	-	-	-
43	-	-	-
44	-	-	-
45	-	-	-
46	-	-	-
47	-	-	-
48	-	-	-
49	-	-	-
50	-	-	-

Blow	Reading on Scale (mm)	Depth (mm bgl)	Penetration (mm)
51	-	-	-
52	-	-	-
53	-	-	-
54	-	-	-
55	-	-	-
56	-	-	-
57	-	-	-
58	-	-	-
59	-	-	-
60	-	-	-
61	-	-	-
62	-	-	-
63	-	-	-
64	-	-	-
65	-	-	-
66	-	-	-
67	-	-	-
68	-	-	-
69	-	-	-
70	-	-	-
71	-	-	-
72	-	-	-
73	-	-	-
74	-	-	-
75	-	-	-
76	-	-	-
77	-	-	-
78	-	-	-
79	-	-	-
80	-	-	-
81	-	-	-
82	-	-	-
83	-	-	-
84	-	-	-
85	-	-	-
86	-	-	-
87	-	-	-
88	-	-	-
89	-	-	-
90	-	-	-
91	-	-	-
92	-	-	-
93	-	-	-
94	-	-	-
95	-	-	-
96	-	-	-
97	-	-	-
98	-	-	-
99	-	-	-
100	-	-	-
101	-	-	-

Blow	Reading on Scale (mm)	Depth (mm bgl)	Penetration (mm)
102	-	-	-
103	-	-	-
104	-	-	-
105	-	-	-
106	-	-	-
107	-	-	-
108	-	-	-
109	-	-	-
110	-	-	-
111	-	-	-
112	-	-	-
113	-	-	-
114	-	-	-
115	-	-	-
116	-	-	-
117	-	-	-
118	-	-	-
119	-	-	-
120	-	-	-
121	-	-	-
122	-	-	-
123	-	-	-
124	-	-	-
125	-	-	-
126	-	-	-
127	-	-	-
128	-	-	-
129	-	-	-
130	-	-	-
131	-	-	-
132	-	-	-
133	-	-	-
134	-	-	-
135	-	-	-
136	-	-	-
137	-	-	-
138	-	-	-
139	-	-	-
140	-	-	-
141	-	-	-
142	-	-	-
143	-	-	-
144	-	-	-
145	-	-	-
146	-	-	-
147	-	-	-
148	-	-	-
148	-	-	-
149	-	-	-
150	-	-	-
151	-	-	-

TRL DCP Field Test Record Sheet



Project Name:	Lidl, Eastern Way, Melksham
Project Number:	24-1905-P
Client:	Lidl Great Britain Ltd
TRL DCP Ref:	DCP02
Depth at Start of Test (mm bgl):	0mm
Date:	21/10/2025
Comments:	Test undertaken from ground level.

Blow	Reading on Scale (mm)	Depth (mm bgl)	Penetration (mm)
0	120	0	0
1	260	140	140
2	360	240	100
3	440	320	80
4	495	375	55
5	530	410	35
6	565	445	35
7	595	475	30
8	625	505	30
9	655	535	30
10	680	560	25
11	710	590	30
12	735	615	25
13	760	640	25
14	788	668	28
15	820	700	32
16	850	730	30
17	880	760	30
18	910	790	30
19	940	820	30
20	-	-	-
21	-	-	-
22	-	-	-
23	-	-	-
24	-	-	-
25	-	-	-
26	-	-	-
27	-	-	-
28	-	-	-
29	-	-	-
30	-	-	-
31	-	-	-
32	-	-	-
33	-	-	-
34	-	-	-
35	-	-	-
36	-	-	-
37	-	-	-
38	-	-	-
39	-	-	-
40	-	-	-
41	-	-	-
42	-	-	-
43	-	-	-
44	-	-	-
45	-	-	-
46	-	-	-
47	-	-	-
48	-	-	-
49	-	-	-
50	-	-	-

Blow	Reading on Scale (mm)	Depth (mm bgl)	Penetration (mm)
51	-	-	-
52	-	-	-
53	-	-	-
54	-	-	-
55	-	-	-
56	-	-	-
57	-	-	-
58	-	-	-
59	-	-	-
60	-	-	-
61	-	-	-
62	-	-	-
63	-	-	-
64	-	-	-
65	-	-	-
66	-	-	-
67	-	-	-
68	-	-	-
69	-	-	-
70	-	-	-
71	-	-	-
72	-	-	-
73	-	-	-
74	-	-	-
75	-	-	-
76	-	-	-
77	-	-	-
78	-	-	-
79	-	-	-
80	-	-	-
81	-	-	-
82	-	-	-
83	-	-	-
84	-	-	-
85	-	-	-
86	-	-	-
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88	-	-	-
89	-	-	-
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93	-	-	-
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95	-	-	-
96	-	-	-
97	-	-	-
98	-	-	-
99	-	-	-
100	-	-	-
101	-	-	-

Blow	Reading on Scale (mm)	Depth (mm bgl)	Penetration (mm)
102	-	-	-
103	-	-	-
104	-	-	-
105	-	-	-
106	-	-	-
107	-	-	-
108	-	-	-
109	-	-	-
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113	-	-	-
114	-	-	-
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118	-	-	-
119	-	-	-
120	-	-	-
121	-	-	-
122	-	-	-
123	-	-	-
124	-	-	-
125	-	-	-
126	-	-	-
127	-	-	-
128	-	-	-
129	-	-	-
130	-	-	-
131	-	-	-
132	-	-	-
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135	-	-	-
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137	-	-	-
138	-	-	-
139	-	-	-
140	-	-	-
141	-	-	-
142	-	-	-
143	-	-	-
144	-	-	-
145	-	-	-
146	-	-	-
147	-	-	-
148	-	-	-
148	-	-	-
149	-	-	-
150	-	-	-
151	-	-	-

TRL DCP Field Test Record Sheet



Project Name:	Lidl, Eastern Way, Melksham
Project Number:	24-1905-P
Client:	Lidl Great Britain Ltd
TRL DCP Ref:	DCP03
Depth at Start of Test (mm bgl):	0mm
Date:	21/10/2025
Comments:	Test undertaken from ground level.

Blow	Reading on Scale (mm)	Depth (mm bgl)	Penetration (mm)
0	115	0	0
1	200	85	85
2	235	120	35
3	280	165	45
4	335	220	55
5	395	280	60
6	465	350	70
7	523	408	58
8	574	459	51
9	615	500	41
10	650	535	35
11	690	575	40
12	725	610	35
13	760	645	35
14	790	675	30
15	820	705	30
16	850	735	30
17	875	760	25
18	905	790	30
19	930	815	25
20	-	-	-
21	-	-	-
22	-	-	-
23	-	-	-
24	-	-	-
25	-	-	-
26	-	-	-
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28	-	-	-
29	-	-	-
30	-	-	-
31	-	-	-
32	-	-	-
33	-	-	-
34	-	-	-
35	-	-	-
36	-	-	-
37	-	-	-
38	-	-	-
39	-	-	-
40	-	-	-
41	-	-	-
42	-	-	-
43	-	-	-
44	-	-	-
45	-	-	-
46	-	-	-
47	-	-	-
48	-	-	-
49	-	-	-
50	-	-	-

Blow	Reading on Scale (mm)	Depth (mm bgl)	Penetration (mm)
51	-	-	-
52	-	-	-
53	-	-	-
54	-	-	-
55	-	-	-
56	-	-	-
57	-	-	-
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60	-	-	-
61	-	-	-
62	-	-	-
63	-	-	-
64	-	-	-
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67	-	-	-
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99	-	-	-
100	-	-	-
101	-	-	-

Blow	Reading on Scale (mm)	Depth (mm bgl)	Penetration (mm)
102	-	-	-
103	-	-	-
104	-	-	-
105	-	-	-
106	-	-	-
107	-	-	-
108	-	-	-
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113	-	-	-
114	-	-	-
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118	-	-	-
119	-	-	-
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122	-	-	-
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124	-	-	-
125	-	-	-
126	-	-	-
127	-	-	-
128	-	-	-
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138	-	-	-
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140	-	-	-
141	-	-	-
142	-	-	-
143	-	-	-
144	-	-	-
145	-	-	-
146	-	-	-
147	-	-	-
148	-	-	-
148	-	-	-
149	-	-	-
150	-	-	-
151	-	-	-

TRL DCP Field Test Record Sheet



Project Name:	Lidl, Eastern Way, Melksham
Project Number:	24-1905-P
Client:	Lidl Great Britain Ltd
TRL DCP Ref:	DCP04
Depth at Start of Test (mm bgl):	0mm
Date:	21/10/2025
Comments:	Test undertaken from ground level.

Blow	Reading on Scale (mm)	Depth (mm bgl)	Penetration (mm)
0	140	0	0
1	215	75	75
2	240	100	25
3	270	130	30
4	304	164	34
5	330	190	26
6	360	220	30
7	387	247	27
8	415	275	28
9	445	305	30
10	475	335	30
11	509	369	34
12	540	400	31
13	567	427	27
14	590	450	23
15	615	475	25
16	640	500	25
17	665	525	25
18	685	545	20
19	710	570	25
20	730	590	20
21	755	615	25
22	775	635	20
23	800	660	25
24	820	680	20
25	845	705	25
26	865	725	20
27	885	745	20
28	905	765	20
29	930	790	25
30	-	-	-
31	-	-	-
32	-	-	-
33	-	-	-
34	-	-	-
35	-	-	-
36	-	-	-
37	-	-	-
38	-	-	-
39	-	-	-
40	-	-	-
41	-	-	-
42	-	-	-
43	-	-	-
44	-	-	-
45	-	-	-
46	-	-	-
47	-	-	-
48	-	-	-
49	-	-	-
50	-	-	-

Blow	Reading on Scale (mm)	Depth (mm bgl)	Penetration (mm)
51	-	-	-
52	-	-	-
53	-	-	-
54	-	-	-
55	-	-	-
56	-	-	-
57	-	-	-
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99	-	-	-
100	-	-	-
101	-	-	-

Blow	Reading on Scale (mm)	Depth (mm bgl)	Penetration (mm)
102	-	-	-
103	-	-	-
104	-	-	-
105	-	-	-
106	-	-	-
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151	-	-	-



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