Environmental Permit (EP) Surrender Site Investigation Report

LLANGEFNI MEAT PROCESSING FACILITY

2 Sisters Food Group

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Basis of Report

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1.0 Introduction

1.1 Appointment

SLR Consulting Limited (SLR) was commissioned by 2 Sisters Food Group (2 Sisters) to complete a Site Investigation Report (SIR) for their disused poultry processing facility at Bryn Cefni Industrial Park, Llangefni, Anglesey, LL77 7UX (the Site). The Site's location and site layout are shown in Appendix A.

Use of "the Site" in this report and the site boundary shown in Appendix A refer to the area currently subject to an Environmental Permit (EP) rather than the entire demise under 2 Sisters' ownership.

1.2 Objectives and Background

SLR was previously retained by 2 Sisters Food Group to undertake a desk-based Site Condition Report (SCR) at the Site in July 2023. The report concluded that potential risks to nearby receptors were considered to be low to moderate in the Site's current condition due to the potential impact of hydrocarbon fuels and high oxygen demand trade effluent on groundwater.

In order to support the environmental permit surrender, intrusive investigations were required to obtain soil and groundwater data following the termination of the permitted operations at the Site and verify the findings of the SCR. The main objective of the investigation was to assess any detrimental changes to soil and water quality that may have occurred as a result of site operations since the environmental permit was issued by the Environment Agency (EA) in 2005.

In the absence of sufficient baseline soil and groundwater data, this report aims to establish if the current condition of the Site presents an unacceptable risk to human health or sensitive environmental receptors as a result of historic operational activities at the facility. This information will then be used to determine if remedial actions are required prior to surrender of the environmental permit at the Site to enable it to be considered suitable for continued commercial/industrial use.

1.3 Scope of Work

The programme of investigation and assessment works undertaken included the following key elements:

- Undertaking a detailed review of all existing site plans and services information in order to safely position all of the exploratory hole locations.
- Drilling 16 boreholes to a maximum depth of 5m using a percussive drilling rig and installing 50mm groundwater monitoring wells.
- Sampling and logging the soil strata in general accordance with BS5930 and for visual and olfactory indications of contaminants.
- Field screening soil samples at regular intervals for organic vapours using a photo-ionisation detector (PID).
- Retaining and analysing soil samples from each exploratory hole location in accordance with the suite of contaminants of concern defined in the SCR.
- Completing a full round of groundwater monitoring to assess the depth to groundwater beneath the Site, check for the presence of non-aqueous phase liquid (NAPL) and measure gas concentrations within all viable monitoring wells.
- Retaining and analysing groundwater samples from each viable sampling location, in addition to upstream and downstream surface water samples (if accessible), in accordance the suite of contaminants of concern defined in the SCR.
- Preparation of an environmental assessment report to determine any changes to the environmental condition of the Site since the start of the environmental permit. The laboratory results have also been screened against relevant generic assessment criteria to assess potential risks to human health or sensitive environmental receptors.

2.0 Site Description

2.1 Site Details, Setting and History

The relevant environmental information relating to the Site is presented in the SCR and is summarised in Table 1 below. Key site features and potential contaminant sources/areas of potential concern (APC) are shown on Drawing 2.

Table 1 Site Details

Detail	Description	
Location	The Site is situated at Bryn Cefni Industrial Park, Llangefni, Anglesey, LL77 7UX. National Grid Reference (NGR) 246190, 374989 identifies the approximate location (Drawing 01). The Site is at an elevation of approximately 10m AOD.	
Site Area	Approximately 2.4 hectares.	
Current Site Use	The Site is currently a disused poultry abattoir and meat processing facility. 2 Sisters acquired the Site in 2013 and operated it until March 2023. However, the Site was also operated for the same purpose by previous owners under an EP. 2 Sisters became the EP holder when they acquired the Site in 2013. When operational, live birds arrived at the Site by road. The process carried out at the Site comprised, briefly: stunning, slaughtering, bleeding, scalding, de-feathering, inspection, venting, feet removal, evisceration, washing, inspection, crop and neck removal, maturation, portioning, packing, chilling and despatch. After offloading, the vehicles and crates used for transport chickens were washed in a yard area to remove bird waste.	
Surrounding Land Use	The Site is located within an industrial estate and is immediately surrounded by commercial properties, roads and car parks. The River Cefni is located immediately beyond the car park west of the Site (approximately 65m from the Site's west boundary) and there is open land beyond.	
Site Details	Buildings and Site Features	The Site is currently occupied by a disused poultry abattoir and meat processing facility. The majority of the Site is occupied by buildings which have been constructed in stages, but which are now joined such that they resemble one large, irregularly shaped building in plan view. The buildings housed the Site's operations including those described above as well as refrigerated storage, a boiler room, effluent treatment, workshops, chemical storage, waste storage and packing and distribution facilities.
	External areas	An area of hardstanding in the south of the Site was used for goods-in and despatch (and thus included HGV access) and outdoor storage. Hardstanding in the north of the Site included lorry wash down facilities (where joints/cracks in concrete hardstanding were observed) and provided HGV access to the waste offal loading area. Additionally, the current diesel tank, former diesel tank, effluent tank, sludge tank, former waste oil tank and a disused groundwater abstraction borehole previously used to supply the lorry wash are/were all located in this area. A vegetated bank slopes up to the north beyond the northern area of hardstanding. This bank extends beyond the Site's boundary.
	Drainage system	The foul/effluent sewer comprises a series of drains, sumps and pits that connect to a central spine drain (running in a north to south direction). Drains collecting water that issued from the steep bank in the north of the Site are also connected to this system. The Site operates a DAF (Dissolved Air Filtration) effluent treatment plant (ETP) for its foul effluent which discharges to mains sewer southwest of the Site. The surface water drainage system collects storm water run-off from hardstanding areas and roofs and discharges to a large collection tank.

Detail	Description	
		Hardstanding run-off passes through an oil interceptor prior to entering this tank. The surface water collection tank discharges to the river Cefni southwest of the Site via a penstock and an ammonia detection system.
	Known Underground Features	A below ground surface water storage tank and two interceptors on the Site's surface water drainage system are located in the south of the Site. The above-described features are shown on Drawing 2.
	Fuel and Chemical Storage	The Site currently has an above ground diesel tank in the north and is understood to have previously operated a heating oil tank, a waste oil tank and other diesel/fuel tanks. One former diesel tank is understood to have been located proximal to the current diesel tank and the location of the former waste oil tank was also identified to SLR. The effluent treatment room houses bunded IBCs (1,000ltr) containing ferric sulphate solution and bunded 100ltr drums of sodium hydroxide solution. There were obvious signs of sodium hydroxide spillage in this area. Liquid ammonia was used on-site as a refrigerant. There are four electrical transformers on site. Two were constructed in 1970 and two in 1999. The two from 1970 may contain (or may have contained at the time of their installation) transformer oil containing PCBs (polychlorinated biphenyls). The above-described features are shown on Drawing 2.
	Waste	Waste storage tanks comprise: • Above ground effluent tank (502m^3) to hold foul effluent prior to treatment by the ETP. • Above ground sludge storage tank to hold residue from the ETP. • Above ground waste blood storage tank. Chicken waste comprising carcases, feathers, offal and "high risk" waste (e.g. floor waste) was loaded directly into lorries for off-site processing/disposal. Chicken waste is biodegradable and has a high oxygen demand with consequent potential impact to surface water bodies. However, all discharges which could contain chicken waste were directed to the ETP via the effluent tank. The above-described features are shown on Drawing 2.
	Vegetation	A vegetated bank slopes up to the north beyond the northern area of hardstanding. This bank extends beyond the Site's boundary.
	Elevation	Approximately 10m to 20m above Ordnance Datum (OD)
Geography	Topography and Gradient	The Site is relatively flat and level with the exception of the sloped bank in the far north referred to above. The land surrounding the Site slopes gently down towards the River Cefni to the west and up again beyond the river.
	Surface Waters	The River Cefni flows from north to south approximately 65m west of the Site's west boundary and a number of small tributaries of that river. The nearest of these is located immediately north of the Site's north boundary and flows from east to west. This feature was identified as a ditch during SLR's walkover and is located above site level.

3.0 Conceptual Site Model

3.1 Preliminary Risk Assessment

As part of the evaluation of the Site and in accordance with current best practice, the Site has been considered in terms of a Conceptual Site Model (CSM) using the principles of a risk assessment comprising the potential ***Source – Pathway – Receptor*** model of potential pollutant linkages.

Table 2 and Figure 1 below detail the potential sources, pathways and receptors identified at the Site within the context of possible pollutant linkages, i.e. a situation where the source(s), pathway(s) and receptor(s) are all present and therefore a real (as opposed to a perceived) risk of potential impact exists. The likely contaminants associated with the current and historic uses of the Site have been taken from CLR 8 and relevant Industry Profiles together with SLR's own records and data obtained during completion of the SCR.

SLR understands that the Site is to be sold for redevelopment. SLR has assumed that any such redevelopment will be commercial in nature and the assessment presented below is made in this context.

Table 2 Preliminary Risk Assessment

Sources	Use of the Site as a poultry abattoir and meat processing facility for over 30 years, with potential contaminants relating to the storage and use of fuels and the processing and disposal of large volumes of high oxygen demand trade effluent and poultry waste. Additionally, there are electrical transformers on-site, some of which are old enough to have potentially contained PCBs when installed and trichloroethylene may have been used to clean up oil spills. Areas of potential concern (APC) containing potential sources of contamination include the following: 1. Current and former fuel and oil storage infrastructure 2. Trade/foul effluent storage and treatment infrastructure including ETP, effluent tank and sludge tank 3. Identified area of historically damaged/flawed drainage infrastructure 4. Boiler room 5. Locations where trichloroethylene may have been used to clean up soil spills 6. Drainage interceptors 7. Transformers 8. Surface water outfall to River Cefni Potential onsite contaminants of concern include: • Asbestos • Metals • Polynuclear aromatic hydrocarbons (PAH) • Petroleum hydrocarbons • Volatile organic carbon (VOCs) • Polychlorinated Biphenyls (PCBs) • Dissolved anions including chloride, phosphate and nitrate • Dissolved ammoniacal nitrogen • High oxygen demand organic wastes and breakdown products Significant offsite contaminant sources with potential to cause onsite contamination have not been identified.

Pathways	Pathway	Description	
	Dermal contact, ingestion or inhalation	On-site	The Site is predominantly covered with buildings and hard surfacing, which breaks the potential pathway.
		Off-Site	The Site is recorded as underlain by relatively low permeability shallow soils.
	Underground services	On-Site	Underground services, particularly drainage, could provide a preferential route for contaminant migration.
	Vapour / gas migration	On-Site	Granular made ground beneath the Site could provide a pathway to the site boundary for potential soil and groundwater contamination.
		Off-Site	Vapour migration to offsite commercial buildings from potential soil and groundwater contamination is limited by the presence of relatively low permeability shallow soils beneath the Site.
	Ground to Controlled Waters	Ground	Via migration through shallow granular Made Ground and relatively low permeability Glacial Till into the bedrock aquifer.
		Surface	The River Cefni is approximately 65m west of the Site. Underlying natural shallow soils are of relatively low permeability but overlying granular made ground may present a preferential pathway and the Site has a direct connection to the river via its surface water drainage system.
Receptors	Receptor	Location	
	Onsite Human Health	For any proposed commercial use, it assumed the Site will remain hard surfaced and as such human health receptors will be of relatively low sensitivity. Potential risks to construction workers during the redevelopment process will be controlled by standard environmental management techniques (e.g. dust suppression) and use of appropriate PPE.	
	Offsite Human Health	Where the Site is adjoined by neighbouring properties, these are commercial/industrial in nature and as such human health receptors are of relatively low sensitivity.	
	Buildings	Buildings may be at risk of vapour ingress if residual volatile contaminants are present in the ground.	
	Ecological	No nationally or locally designated areas are located within 500m of the Site.	
	Property: Flora & Fauna	No sensitive receptors identified onsite.	
	Groundwater	The superficial Till deposits are classified as a secondary undifferentiated aquifer and are of relatively low permeability. The underlying solid Clwyd Limestone Group is classified as a principal aquifer	
	Surface waters	The nearest surface water feature is the River Cefni approximately 65m west of the Site. Underlying natural shallow soils are of relatively low permeability but overlying granular made ground may present a preferential pathway and the Site has a direct connection to the river via its surface water drainage system.	

Potential Pollutant Linkages	Onsite Human Health	Unlikely - Theoretical vapour risk but only if sufficient volatile organic contaminants present in the ground and only low volatility hydrocarbon fuels (diesel and heating oil) are recorded as having been used at the Site.
	Offsite Human Health	None - No potential linkages identified.
	Property: Flora & Fauna	None - No potential linkages identified.
	Buildings	None – there are no potential sources of ground gas such as landfills, coal measures, or significant areas of Made Ground present on site or in close proximity to the Site.
	Ecological	None - No potential linkages identified.
	Groundwater	Unlikely – While of relatively low permeability, the superficial Till deposits are classified as a secondary undifferentiated aquifer and thus represent a receptor in their own right. These deposits are underlain by the Clwyd Limestone Group which is classified as a principal aquifer, although potential risks are likely to be mitigated by the thickness of lower permeability Glacial Till above. A potential linkage will only exist if sufficient contaminants are present in soil and groundwater.
	Surface Water	Possible – The nearest surface water feature is the river Cefni approximately 65m west of the Site. Underlying natural shallow soils are of relatively low permeability but overlying granular Made Ground may present a preferential pathway, and the Site has a direct connection to the river via its surface water drainage system.
Overall Assessment	Low to Moderate Risk	

3.2 Overall Risk Summary

Overall, the Site is considered to present a **Low to Moderate Risk** in its current condition, in the context of continued commercial use. Potential contamination linkages have been identified as a result of the Site's storage and use of hydrocarbon fuels and records of potential impact to groundwater and off-site surface water by high oxygen demand trade effluent via historical leaks in the Site's drainage systems and the Site's direct drainage connection to the river Cefni.

The key potential pollutant linkages that require further assessment are identified as the following:

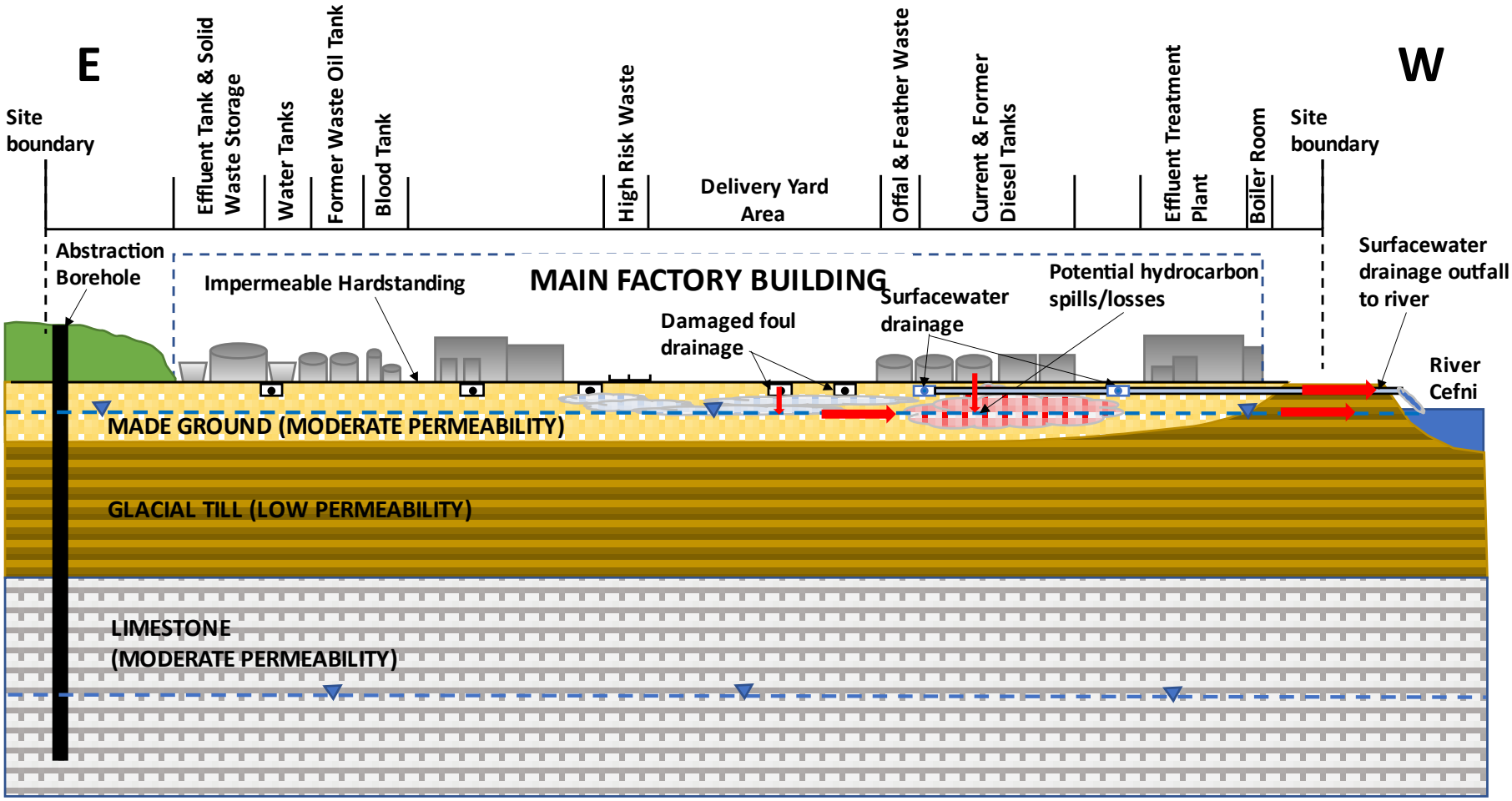
PPL1 – Onsite Human Health

PPL2 – Groundwater

PPL3 - Surface Water

The aim of this SIR is to verify the findings of this initial risk assessment and establish the absence or presence of the above outlined potential pollutant linkages.

Figure 1 Conceptual Site Model



4.0 Baseline Environmental Investigations

SLR conducted environmental investigations at the Site between 4th September and 20th September 2023. The scope of work included the following:

- undertaking a detailed review of all existing site plans and services information in order to safely position all exploratory holes;
- advancing service clearance pits to 1.2m depth at each borehole location using hand tools;
- drilling sixteen shallow boreholes to a maximum depth of 5.0m using a window sampling rig to obtain soil samples for subsequent chemical laboratory analysis;
- installing groundwater monitoring wells in all boreholes;
- sampling and logging the soil strata in general accordance with BS5930 and for visual and olfactory indications of contaminants;
- field screening soil samples at regular intervals for organic vapours using a photo-ionisation detector (PID);
- retaining and analysing a minimum of one soil sample from each exploratory hole location for a suite of potential contaminants of concern, including asbestos, metals, PAH, petroleum hydrocarbons, PCBs and VOCs; and
- retaining and analysing surface and groundwater samples for a suite of potential contaminants of concern, including pH, metals, petroleum hydrocarbons, VOCs, PAH, PCBs, anions (including chloride, nitrate and phosphate), ammoniacal nitrogen, chemical oxygen demand, biological oxygen demand and total organic carbon.

All excavations and boreholes were advanced using equipment supplied and operated by Geotron UK Ltd under the supervision of SLR.

All laboratory analyses were undertaken by Element Materials Technology of Deeside.

The results of the assessment are described below.

4.1 Borehole Locations

A total of 16 boreholes were advanced between 4th September and 8th September 2023, and are located within or adjacent to the identified areas of potential concern (i.e., sources of potential contamination).

Table 3 Proposed Exploratory Hole Locations

Exploratory Hole Location	Potential Source Area	Key Contaminants of Concern
BH1	Former waste oil tank	Petroleum hydrocarbons
BH2	Effluent tank	Anions, ammoniacal nitrogen, high oxygen demand wastes
BH3	Diesel tank	Petroleum hydrocarbons
BH4	Former diesel tank and sludge tank (possible former heating oil tank)	Petroleum hydrocarbons, anions, ammoniacal nitrogen and high oxygen demand wastes
BH5	Site activities upgradient of borehole location.	Anions, ammoniacal nitrogen, high oxygen demand wastes
BH6	ETP and boiler room	Anions, ammoniacal nitrogen, high oxygen demand wastes
BH7		

Exploratory Hole Location	Potential Source Area	Key Contaminants of Concern
BH8	Current or former leaking drainage infrastructure	Anions, ammoniacal nitrogen, high oxygen demand wastes
BH9		
BH10		
BH11	Current or former leaking drainage infrastructure and transformers	Anions, ammoniacal nitrogen, high oxygen demand wastes, petroleum hydrocarbons and PCBs
BH12	Drainage interceptor	Petroleum hydrocarbons
BH13		
BH14	Trichloroethylene used to clean up oil spills	Petroleum hydrocarbons and VOCs
BH15		

The locations of the exploratory holes are shown on Drawing 02.

4.2 Baseline Soil Reference Data

4.2.1 Stratigraphy

The strata encountered are presented on borehole logs included in Appendix B and summarised in Table 4 below.

Table 4 Summary of Strata Encountered

Strata	Description	Depth (m)
Made Ground	Grey silty sandy GRAVEL of limestone and sandstone sub-base.	0m to 0.62m
	Brown to brownish grey slightly cobbly silty SAND and GRAVEL. Sand is of fine to medium subrounded to subangular quartz. Gravel is of fine to medium subrounded to subangular concrete and mixed igneous and metamorphic lithologies. Cobbles are of brick.	0.4m to 1.1m
Glacial Till	Reddish brown fine to coarse angular to subrounded silty sandy very clayey GRAVEL of mixed igneous and metamorphic lithologies, sandstone, with clay content increasing with depth. Frequent cobbles of mixed igneous and metamorphic lithologies.	0m to >3.5m
Weathered Mudstone	Dark grey weathered bedrock of MUDSTONE.	0.6m to >3.5m

Three broad geological horizons have been recognised and are summarised below:

Made Ground – Hardstanding comprising bituminous and concrete surfacing was generally underlain by a sub-base of granular sandy gravels that was present across the Site. Brown and brownish grey silty cobbly sands and gravels were encountered locally in BH4A close to the above ground fuel tank, and in the southern part of the Site (BH12 and BH13) between 0.4m and 1.1m depth.

Glacial Till Deposits – Encountered in all locations underlying the Made Ground, these deposits generally comprised reddish brown silty sandy clayey gravels of varying lithologies. Clay content generally increased with depth.

Weathered bedrock of the Clwyd Limestone Group was encountered beneath the Glacial Till from depths of 0.6m.

4.2.2 Field Observations

Seventy-six in-field screening tests were undertaken on the soil during the investigation using a hand-held photo-ionisation detector (PID), with representative samples retained for laboratory analysis.

A strong hydrocarbon odour was noted in BH3 located adjacent to the diesel tank from 0.5m to 1.5m depth, and this corresponded with elevated concentrations of total organic vapour with a maximum value of 373ppm at 1.5m depth. However, the hydrocarbon odour impact did not appear to penetrate the low permeability mudstone bedrock present from 1.75m depth, and headspace concentrations reduced rapidly with depth falling to 23ppm at 2.0m.

No other visual or olfactory evidence of contamination was recorded in any of the other boreholes, indicating that the hydrocarbon impact is localised around the above ground diesel tank, and all of the other headspace results were less than 1.5ppm.

No visible fragments of asbestos containing materials were observed in any of the boreholes.

The full results of each screening test and field observations can be found as part of the borehole logs in Appendix B.

4.2.3 Analytical Chemistry Results - Soil

SLR retained 47 soil samples for chemical analysis for a suite of potential contaminants of concern (CoC), including petroleum hydrocarbons, metals, volatile organic compounds (VOCs), total organic carbon (TOC), polychlorinated biphenyl (PCB), polycyclic aromatic hydrocarbons (PAHs), pH and screening for the presence of asbestos.

All laboratory analyses were undertaken by Element Materials Technology of Deeside, and the results of the laboratory analysis of the soil samples are presented in Appendix C.

Summary

A statistical summary for the potential contaminants of concern (CoC) recorded above the minimum laboratory detection limits within the soil samples is presented in Table 5 below:

Table 5 Summary of Analytical Chemistry Results - Soil

Contaminant	Number of samples	Number of non-detects	Range		Average	Highest Recorded Result
			Min	Max		
Metals						
Arsenic	33	0	1.3	250	19	BH8
Cadmium	33	32	<0.1	0.2	0.1	BH4A
Chromium	33	0	19	86	61	BH14
Copper	33	0	6	44	24	BH16
Lead	33	0	8	74	21	BH15
Mercury	33	30	<0.1	0.2	0	BH14
Nickel	33	0	5.6	49	25.0	BH16
Selenium	33	22	<1	2	1	BH6
Zinc	33	0	9	190	54	BH4A
Polycyclic Aromatic Hydrocarbons (PAHs)						
Naphthalene	33	31	<0.04	1.7	0.092	BH3
Fluorene	33	31	<0.04	0.62	0.058	BH3
Phenanthrene	33	27	<0.03	1	0.068	BH3
Fluoranthene	33	28	<0.03	0.24	0.041	BH3
Pyrene	33	29	<0.03	0.33	0.049	BH3

Contaminant	Number of samples	Number of non-detects	Range		Average	Highest Recorded Result
			Min	Max		
Benzo(a)anthracene	33	31	<0.06	0.17	0.065	BH3
Chrysene	33	28	<0.02	0.16	0.032	BH3
Benzo(bk)fluoranthene	33	30	<0.07	0.31	0.082	BH3
Benzo(a)pyrene	33	32	<0.04	0.2	0.045	BH3
Indeno(123cd)pyrene	33	31	<0.04	0.12	0.043	BH3
Benzo(ghi)perylene	33	31	<0.04	0.14	0.045	BH4A
Benzo(b)fluoranthene	33	30	<0.05	0.22	0.058	BH3
Benzo(k)fluoranthene	33	30	<0.02	0.09	0.024	BH3
PAH 16 Total	33	29	<0.6	3.6	0.73	BH3
Petroleum Hydrocarbons						
aliphatics >C6-C8	35	32	<0.1	2	0.19	BH3
aliphatics >C8-C10	35	33	<0.1	34	1.8	BH3
aliphatics >C10-C12	35	29	<0.2	180	7.4	BH3
aliphatics >C12-C16	35	28	<4	990	42	BH3
aliphatics >C16-C21	35	24	<7	2100	95	BH3
aliphatics >C21-C35	35	24	<7	570	39	BH3
Total aliphatics C5-35	35	24	<19	3900	180	BH3
aromatics >EC8-EC10	35	33	<0.1	1.4	0.16	BH3
aromatics >EC10-EC12	35	33	<0.2	110	4.3	BH3
aromatics >EC12-EC16	35	32	<4	520	23	BH3
aromatics >EC16-EC21	35	30	<7	910	43	BH3
aromatics >EC21-EC35	35	22	<7	280	36	BH3
Total aromatics C5-35	35	26	<36	1821	353	BH3
Total aliphatics and aromatics(C5-35)	35	24	<39	5688	829	BH3
Volatile Organic Compounds (including BTEX)						
Trichlorofluoromethane	33	31	<0.003	0.28	0.015	BH13
1,1-Dichloroethane	33	31	<0.006	0.039	0.0078	BH12
1,1,1-Trichloroethane	33	30	<0.005	0.18	0.011	BH12
Toluene	33	31	<0.003	0.008	0.0032	BH4
Tetrachloroethene	33	32	<0.003	0.007	0.0031	BH13
Ethylbenzene	33	32	<0.003	0.15	0.0075	BH3
m & p Xylene	33	29	<0.004	0.17	0.0095	BH3
o-Xylene	33	32	<0.004	0.15	0.0084	BH3
Isopropylbenzene	33	32	<0.003	0.18	0.0084	BH3
Propylbenzene	33	32	<0.004	0.46	0.018	BH3
1,3,5-Trimethylbenzene	33	31	<0.003	1.2	0.039	BH3
1,2,4-Trimethylbenzene	33	31	<0.006	5.8	0.18	BH3
Sec-Butylbenzene	33	32	<0.004	0.77	0.027	BH3
4-Isopropyltoluene	33	32	<0.004	0.59	0.022	BH3

Contaminant	Number of samples	Number of non-detects	Range		Average	Highest Recorded Result
			Min	Max		
n-Butylbenzene	33	32	<0.004	1.2	0.04	BH3
Naphthalene	33	32	<0.027	1.6	0.075	BH3
Other						
Total Organic Carbon (%)	33	2	<0.02	7.1	0.57	BH15
pH	33	0	6.7	11	8.5	BH1

Results shown as mg/kg with the exception of pH and Total Organic Carbon.

Total Petroleum Hydrocarbons (TPH), BTEX and MTBE

Elevated concentrations of TPH and BTEX were recorded adjacent to the current above ground diesel storage tank and historic diesel tank, with a maximum concentration of 5688 mg/kg TPH and 0.47mg/kg BTEX at 1.0m depth in BH3 within the Glacial Till. Lower concentrations of petroleum hydrocarbon impact were also recorded in the area downgradient of the above ground tanks in BH4a (735mg/kg TPH at 0.3m), with the downgradient edge of the plume inferred to be close to BH6 (272mg/kg TPH at 1.75m depth) and BH16 (114mg/kg TPH at 1.75m depth).

Soil samples were also collected at 0.5m, 1.5m and 2.0m depth in BH3 to assess the vertical profile of the hydrocarbon impact. This confirmed that the hydrocarbon impact was primarily concentrated within the shallow Made Ground and the superficial Glacial Till, as the TPH results from the top of the mudstone bedrock were below the minimum laboratory detection limits (MDL) and only traces of BTEX (<0.03mg/kg) were present.

The hydrocarbon signature recorded predominantly comprised low mobility heavy-chain hydrocarbons (TPH >C12-C35) indicative of degraded diesel or oil.

Trace to low concentrations of hydrocarbon impact (<100mg/kg TPH) were also recorded in locations BH10 close to the fractured drainage system, and BH12 to BH15 in the southern part of the Site.

MTBE was not recorded above the laboratory method detection limit (MDL) in any of the samples tested.

Asbestos

Five samples of Made Ground were scheduled for asbestos screening. Asbestos was not detected in any of the samples tested.

Metals

Metals were detected above MDL in all of the samples tested, with an elevated concentration of arsenic recorded in the Glacial Till soil sampled adjacent to the drainage infrastructure in the north of the Site (250mg/kg in BH8 at 0.80-1.0m depth).

VOCs

VOCs were recorded above the minimum laboratory method detection limits (MDL) in five borehole locations including BH3, BH4, BH4A, BH12 and BH13. The highest concentration of total VOCs was recorded adjacent to the current diesel tank (BH3 at 1.0m depth) at 12.27mg/kg.

TOC

Organic carbon was recorded above MDL in 31 of the 33 samples tested, with an average concentration of 0.38% in the unsaturated zone and 0.82% in the saturated zone.

PCBs

No evidence of PCBs was detected in any of the samples tested during this investigation.

PAHs

PAHs were recorded above MDL in eight borehole locations spread across the Site, including BH3, BH4, BH4A, BH8, BH12, BH13, BH14 and BH15. The highest concentration of total PAHs was recorded adjacent to the current diesel tank (BH3 at 1.0m depth) at 3.6mg/kg.

pH

The average pH of the soil samples was recorded as 8.5. A maximum pH of 11 was recorded in BH1 (0.3 to 0.5m depth) and BH2 (0.6 to 0.8m depth), probably linked to the presence of crushed concrete within the shallow Made Ground, and the lowest pH of 6.7 was recorded in BH15 at 1.5 to 2.0m depth.

4.2.4 Particle Size Distribution (PSD)

During the ground investigations, two samples of soil were collected from the superficial Glacial Till and submitted to Element Materials Technology for particle size distribution (PSD) analysis. The Results are presented in Appendix C and summarised in Figure 2 below.

Figure 2 Particle Size Distribution (PSD) Results

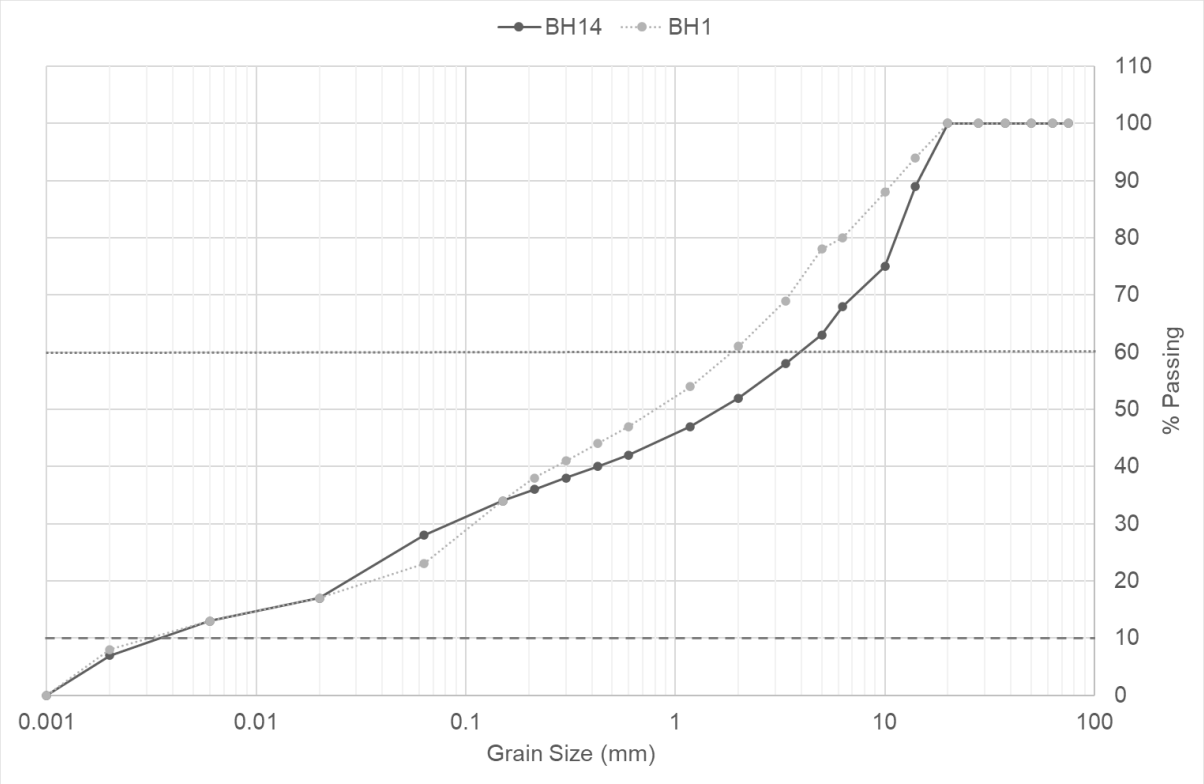


Table 6 below shows the soil texture classification and indicative hydraulic conductivity based on the PSD results. The PSD analysis was used to calculate a value for hydraulic conductivity after Bricker and Bloomfield (2014)[1] using the Kozeny Carmen equation. These hydraulic values are considered to be representative of the soil types recorded within the Glacial Till deposits and are consistent reported literature values[2].

[1] S. H. Bricker & J. P. Bloomfield. Controls on the basin-scale distribution of hydraulic conductivity of superficial deposits: a case study from the Thames Basin, UK, April 2014. Quarterly Journal of Engineering Geology and Hydrogeology, Vol. 47, 2014, pp. 223 –236

[2] Domenico & Schwartz, Physical and Chemical Hydrogeology, 1990, Table 3.2, page 65.

Table 6 Summary of Particle Size Distribution Results

BH Location	Depth (m)	Strata Type	Soil Classification	Hydraulic Conductivity (m/d)
BH1	1.20-1.40	Glacial Till	Sandy Loam	0.001
BH14	2.00-2.50	Glacial Till	Sandy Loam	0.001

4.2.5 Generic Risk Assessment Criteria – Soils

In order to understand the potential significance of the recorded concentrations in the samples collected, the laboratory analysis results have been compared against the following selected generic assessment criteria (GAC) for a commercial/industrial land use:

- LQM/CIEH Suitable for Use Levels (S4ULs) – in 2015 Land Quality Management and the Chartered Institute of Environmental Health published S4ULs derived following CLEA technical guidance and using the Environment Agency's CLEA UK model, with updated toxicological and exposure parameters and land uses following the publication of the draft C4SLs.

No evidence of significant or widespread soil contamination was identified during the 2023 intrusive investigations and, although localised evidence of hydrocarbon impact was recorded in the vicinity of the above ground diesel tank (BH3), all of the screened results were below the Commercial / Industrial GAC and S4UL (see Appendix D).

Additionally, no evidence of asbestos containing materials was recorded in any of the soil samples analysed.

4.3 Baseline Groundwater Reference Data

4.3.1 Groundwater Monitoring Data

All viable wells were monitored by SLR on 19th September 2023. The recent groundwater monitoring results are presented in Table 7 below.

Table 7 Groundwater Monitoring Data

Well	Screen interval (m)	Cover level (mAOD)	Depth to water (m)	Water level (mAOD)	LNAPL (mm)	Well Headspace (ppmTOV)
BH1	1.0 - 2.2	7.47	0.47	7.00	ND	0
BH2	0.5 - 1.6	7.45	0.49	6.96	ND	0
BH3	0.5 - 2.0	7.70	1.05	6.65	Sheen	1.6
BH4	1.4 - 1.9	7.77	1.40	6.37	ND	0
BH5	1.6 - 3.5	6.78	1.17	5.61	ND	0
BH6	1.0 - 2.0	7.15	1.01	6.14	ND	0
BH7	0.5 - 1.9	7.23	0.67	6.56	ND	0
BH8	0.7 - 2.8	7.42	0.59	6.83	ND	0
BH9	0.4 - 0.6	7.32	0.30	7.02	ND	0
BH10	0.5 - 2.5	7.40	0.35	7.05	ND	0
BH11	1.0 - 2.6	7.29	0.53	6.76	ND	0
BH12	1.0 - 3.2	7.24	1.19	6.05	ND	0
BH13	1.2 - 3.2	5.92	1.15	4.77	ND	0
BH14	1.0 - 3.0	6.78	1.48	5.30	ND	0
BH15	1.0 - 3.5	6.82	1.51	5.31	ND	0
BH16	1.0 - 1.6	7.19	DRY	-	ND	0

mAOD: Metres Above Ordnance Datum

LNAPL: Light Non-Aqueous Phase Liquid

ND: Not Detected

ppmTOV: parts per million total organic vapor measured using a photo ionisation detector (PID) calibrated to isobutylene.

The monitoring results indicate that groundwater was present beneath the Site at between 0.47m and 1.51m depth, typically within the underlying superficial deposits of Glacial Till. Groundwater appears to flow towards the west-southwest (towards the River Cefni) with a hydraulic gradient of approximately 1.8%. A groundwater contour map is shown in Appendix A.

No evidence of LNAPL (i.e. floating product) was recorded in any of the wells, although a hydrocarbon sheen was recorded in BH3. This correlated with the well headspace results, where 1.6ppm of total organic vapour was recorded in BH3, but no evidence of organic vapour was recorded in any of the other wells.

4.3.2 Analytical Chemistry Results - Groundwater

Following the installation of the monitoring wells, SLR purged ten well volumes from each well using bailers to develop the monitoring well installations and remove as much sediment from the drilling process as possible.

The wells were then sampled during the return monitoring visit on the 19th September 2023 using a peristaltic pump to first purge three well volumes to ensure representative groundwater samples were collected. These samples were submitted for chemical analysis for dissolved metals, VOCs, TPH, PAHs, PCBs, Anions, ammoniacal nitrogen, electrical conductivity (EC), pH, total organic carbon, Chemical Oxygen Demand (COD) and Biochemical Oxygen Demand (BOD).

All laboratory analyses were undertaken by Element Materials Technology of Deeside.

The results of the chemical analysis undertaken are presented in Appendix C and a statistical summary for the potential contaminants of concern (CoC) recorded above the minimum laboratory detection limits within the groundwater samples is presented in Table 8 below:

Table 8 Summary of Analytical Chemistry Results - Groundwater

Contaminant	Number of samples	Number of non-detects	Range (mg/l)		Average (mg/l)
			Min	Max	
Metals					
Dissolved Arsenic	15	6	<0.0009	0.0034	0.0015
Dissolved Cadmium	15	6	<0.00003	0.0029	0.0003
Total Dissolved Chromium	15	4	<0.0002	0.0085	0.003
Dissolved Copper	15	4	<0.001	0.015	0.0031
Dissolved Lead	15	9	<0.0004	0.02	0.0024
Dissolved Mercury	15	15	<0.0005	0.0005	0.0005
Dissolved Nickel	15	0	0.0004	0.22	0.028
Dissolved Selenium	15	11	<0.0012	0.03	0.0039
Dissolved Zinc	15	1	<0.0015	0.0089	0.005
Petroleum Hydrocarbons (TPH CWG)					
Aliphatics >C6-C8	15	13	<0.01	0.04	0.013
Aliphatics >C8-C10	15	14	<0.01	0.58	0.048
Aliphatics >C12-C16	15	14	<0.01	0.13	0.018
Aliphatics >C16-C21	15	14	<0.01	0.21	0.023
Total aliphatics C5-35	15	13	<0.01	0.94	0.074
Aromatics >EC12-EC16	15	14	<0.01	0.1	0.016
Aromatics >EC16-EC21	15	14	<0.01	0.13	0.018
Total aromatics C5-35	15	14	<0.01	0.23	0.025
Total aliphatics and aromatics(C5-35)	15	13	<0.01	1.2	0.089
Volatile Organic Compounds (VOCs)					
Trichlorofluoromethane	15	13	<0.003	0.097	0.011
1,1-Dichloroethene	15	14	<0.003	0.007	0.0033
1,1-Dichloroethane	15	13	<0.003	0.066	0.0073
1,1,1-Trichloroethane	15	13	<0.002	0.073	0.0074
Polycyclic Aromatic Hydrocarbons (PAHs)					
Acenaphthene	15	13	<0.000005	0.000014	0.0000058
Fluorene	15	14	<0.000005	0.000005	0.000005
Phenanthrene	15	14	<0.000005	0.000005	0.000005
Fluoranthene	15	14	<0.000005	0.000015	0.0000057
Pyrene	15	13	<0.000005	0.000047	0.0000089
Other					
Chloride	15	0	11	260	70
OrthoPhosphate as PO4	15	10	<0.06	0.24	0.099
COD	15	5	<7	48	15
BOD	15	10	<1	4	1.5
Nitrate as N	15	4	<0.05	11	1.4
Ammoniacal Nitrogen as NH4	15	5	<0.03	12	1.1
Electrical Conductivity @25C	15	0	350	1700	800
pH	15	0	7.5	8	7.8

Contaminant	Number of samples	Number of non-detects	Range (mg/l)		Average (mg/l)
			Min	Max	
Total Organic Carbon	15	10	<2	29	5.1

4.3.3 Analytical Chemistry Results – Surface Water

During the groundwater sampling visit on the 19th September 2023, SLR also retained three surface water samples from the nearby River Cefni, located west of the Site, using a telescopic water sampling pole. The samples were collected north of the Site (upgradient), adjacent to the Site and south of the Site (downgradient). These samples were submitted for chemical analysis for dissolved metals, VOCs, TPH, PAHs, PCBs, Anions, ammoniacal nitrogen, electrical conductivity (EC), pH, total organic carbon, chemical oxygen demand (COD) and biochemical oxygen demand (BOD). All laboratory analyses were undertaken by Element Materials Technology of Deeside.

The results of the chemical analysis undertaken are presented in Appendix C and key results are summarised below:

- Concentrations of PAHs, VOCs, TPH, BTEX and PCBs were all below MDL.
- Equal concentrations of nickel, copper, chloride, ammoniacal nitrogen, total organic carbon, EC and pH were recorded within all three surface water samples suggesting the Site is unlikely to be impacting these parameters.
- Concentrations of nitrate and BOD above MDL were recorded upstream of the Site which suggests that they are not linked to the Site.
- Concentrations of orthophosphate and COD were recorded above MDL in the sample collected from the river adjacent to the Site at 0.17 mg/l and 36 mg/l respectively.
- Concentrations of arsenic, chromium, lead and zinc above MDL were recorded downstream of the Site at 0.0014 mg/l, 0.0072 mg/l, 0.0011 mg/l and 0.0062 mg/l respectively.

4.3.4 Generic Risk Assessment Criteria – Waters

In order to assess the significance of the recorded dissolved groundwater concentrations, the results have been screened against generic water quality standards (WQS). These criteria are protective of the environmental quality of surface waters (EQS) or of human health (via Drinking Water Standards). The screening criteria are drawn from the following list with criteria from the latter standards/guidance only being used where Environmental Quality Standards and UK Drinking Water Standards are not available:

- Environmental Quality Standards (EQS) – used in the UK for amongst others, volatile organic compound contamination assessment within surface water. EQS are derived from toxicity data, noting chronic effects after long-term exposure or at sensitive life stages of target aquatic species. The EQS quoted have been taken from the most recently published EQS[3]. EQS for bioavailable metals were adjusted using the Environment Agency mBAT worksheet, based on pH, calcium concentrations and DOC concentrations in the receiving water courses.
- UK Drinking Water Standards (UK DWS) – are for the protection for human health and derive from either the Water Supply (Water Quality) Regulations 1989 or 2000.
- EU Drinking Water Standards (EU DWS) – are for the protection of human health and derive from the Council Directive 98/83/EC.
- World Health Organisation Guidelines (WHO Health) protect health and derive from the World Health Organisation Guidelines for Drinking Water Quality, 1984-2011.

[3] The Water Framework Directive (Standards and Classification) Directions (England and Wales) 2015

- SoBRA Groundwater Vapour Generic Assessment Criteria[4] - used for assessing vapour risks to human health from volatile organic compounds within groundwater.

As an initial tier of generic screening, the lowest applicable WQS have been used to screen the laboratory results for groundwater, and the surface water results have been screened against EQS. Individual sample exceedances do not constitute an actual risk but indicate that further consideration or assessment of the result should occur.

The results of this screening exercise are presented in Appendix D, in addition to Drawings 4a to 4d and Drawing 5 in Appendix A, and summarised below:

4.3.4.1 Recorded Exceedances of Drinking Water Standards

- Dissolved Lead – BH13 located adjacent to the interceptor in the southwest.
- Dissolved Selenium (two locations) - BH4 located downgradient of the current and historic diesel tanks and BH6 located downgradient of the boiler room (both in the northwest).
- Chloride – BH8 located close to the drainage infrastructure.
- Ammoniacal Nitrogen (three Locations) – BH5 located downgradient of the main building, BH8 located within the current/former leaking drainage infrastructure and BH15 located downgradient of the workshop and switch rooms.

4.3.4.2 Recorded Exceedances of Environmental Quality Standards

- Dissolved Cadmium and Lead (three Locations) – BH12 and BH13 located downgradient or in proximity to the site interceptors and BH15 located downgradient of the workshop and switch rooms.
- Dissolved Chromium (seven locations) – BH1 located adjacent to the former waste oil tank, BH2 located adjacent to the effluent tank, BH6 located downgradient of the boiler room, and BH7 located within the current/former leaking drainage infrastructure. The three surface water samples collected from the River Cefni also exceed GAC for chromium, including the upstream sample, indicating a potential off-site source for chromium.
- Dissolved Nickel (seven locations) – BH12 and BH13 located downgradient or in proximity to the site interceptors, BH8 and BH11 located within the current/former leaking drainage infrastructure, BH5 located downgradient of the main building, BH6 located downgradient of the boiler room, and BH15 located downgradient of the workshop and switch rooms.
- Chloride – BH8 located within the current/former leaking drainage infrastructure.
- Ammoniacal nitrogen (three locations) – BH5 located downgradient of the main building, BH8 located within the current/former leaking drainage infrastructure and BH15 located downgradient of the workshop and switch rooms.
- Fluoranthene - BH8 located within the current/former leaking drainage infrastructure.
- TPH – BH3 located adjacent to the current above ground diesel storage tank and historic diesel tank and BH12 located downgradient of the interceptor.

4.3.4.3 Recorded Exceedances of the SoBRA GW_{VAP} GAC

- There were no exceedances of the commercial SoBRA GW_{VAP} assessment criteria in any of the samples analysed during this visit.

[4] Society of Brownfield Risk Assessment (2017). Development of Generic Assessment Criteria for Assessing Vapour Risks to Human Health from Volatile Contaminants in Groundwater.

4.4 Discussion – Potential Pollutant Linkages (PPL)

4.4.1 PPL1 – Onsite Human Health

None of the recorded groundwater samples exceeded the SoBRA GW_{VAP} GAC, and therefore the dissolved phase impact beneath the Site is not considered to present an unacceptable inhalation risk to human health in the context of continued commercial/industrial use of the Site.

4.4.2 PPL2 – Groundwater

Although localised marginal exceedances of the DWS for chloride, lead and selenium were recorded within the superficial deposits beneath the Site, the average concentrations of chloride and dissolved metals were well below DWS indicating that they are unlikely to present an unacceptable risk to the secondary and principal aquifers beneath the Site.

Three of the locations close to the drainage infrastructure beneath the Site also exceeded the DWS for ammonia, although these concentrations are likely to reduce back down to acceptable concentrations over time as a result of natural attenuation now that operations have ceased and there is no longer an ongoing source of ammonia entering the onsite drainage network.

Potential risks to the underlying principal aquifer are also likely to be mitigated further by the presence of lower permeability weathered mudstone bedrock beneath the Site which will limit the potential for vertical migration of contaminants.

4.4.3 PPL3 - Surface Water

Concentrations of cadmium, lead, nickel and ammonia were recorded above EQS in diffuse locations across the Site, primarily associated with the drainage infrastructure. However, the low permeability of the Glacial Till (0.001m/d) underlying the Site and the surrounding areas means that risks to the downgradient surface water receptors are unlikely to materialise. This is supported by the fact that the concentrations of cadmium, lead, nickel and ammonia recorded in the River Cefni were below EQS. Although the concentrations of chromium beneath the Site also exceeded EQS, these concentrations were consistent with the natural background concentrations recorded in the surface water samples upgradient of the Site and are unlikely to be related to historic site operations.

Localised concentrations of fluoranthene, TPH and chloride were also recorded above EQS, but as these concentrations were confined within the site boundary, they are not considered to present an unacceptable risk to offsite surface water receptors.

This suggests that, based on the data currently available, the Site is not considered to present an unacceptable risk to nearby surface water receptors.

5.0 Summary and Conclusions

5.1 Summary

The Site is located in an environment surrounded by industrial/commercial buildings. The Site occupies an area of approximately 2.4 hectares situated on Bryn Cefni Industrial Park, to the south of Llangefni in Anglesey.

The Site is underlain by superficial deposits Glacial Till. The solid geology beneath the Site is shown to be Clwyd Limestone Group. The underlying superficial deposits of Glacial Till and the bedrock are classified as secondary (undifferentiated) and principal aquifers (respectively), although the Site is not located within a groundwater source protection zone. The River Cefni is located approximately 65m downgradient of the Site to the west.

SLR was previously retained by 2 Sisters to undertake a desk-based site condition report (SCR) at the Site in July 2023. The SCR recommended that additional investigations should be undertaken to collect soil and groundwater samples to establish current ground conditions at the Site resulting from permitted operations since 2005, and determine if remedial actions are required for the Site to be considered suitable for continued commercial/industrial use following surrender of the current environmental permit.

The key results were as follows:

- The Site was underlain by up to 1.1m of granular Made Ground over superficial deposits of Glacial Till up to 3.5m depth that typically comprised reddish brown silty sandy clayey gravel. Weathered bedrock of the Clwyd Limestone Group was encountered beneath the Glacial Till from depths of 0.6m.
- Particle size analysis indicated that the superficial deposits had sandy loam texture with a low hydraulic conductivity (0.001m/d).
- Visual or olfactory evidence of hydrocarbon impact and elevated hydrocarbon vapours were recorded within the shallow Made Ground and Glacial Till adjacent to the above ground fuel storage infrastructure (BH3), although no field observations of potential contamination were recorded in any of the other borehole locations.
- All of the soil results were below the generic assessment criteria (GAC) for commercial/industrial use, despite elevated concentrations of hydrocarbon impact being recorded in the vicinity of the above ground fuel storage tanks.
- The monitoring results indicate that groundwater was present beneath the Site at between 0.47m and 1.51m depth, typically within the underlying superficial deposits of Glacial Till. Groundwater appears to flow towards the west-southwest (towards the River Cefni) with a hydraulic gradient of approximately 1.8%.
- No evidence of light non-aqueous phase liquid (LNAPL), i.e. floating product, was recorded in any of the monitoring wells, although a hydrocarbon sheen was recorded in the area adjacent to the current and historic above ground fuel storage tanks (BH3).
- None of the recorded groundwater samples exceeded the SoBRA groundwater vapour GAC for commercial human health.
- Exceedances of freshwater environmental quality standards (EQS) and drinking water standards (DWS) were recorded for dissolved metals, chloride, ammoniacal nitrogen, PAHs and TPH within the shallow groundwater beneath the Site, primarily in the areas surrounding the drainage infrastructure beneath the Site.
- Surface water samples were collected from locations upgradient, adjacent and downgradient of the Site, although none of the results exceeded EQS apart from dissolved chromium, which marginally exceeded EQS in all of the samples tested.

5.2 Conclusions

The results of the site investigation and generic environmental risk assessment indicated the following:

Human Health

None of the concentrations recorded in the soil samples exceeded the relevant generic assessment criteria (LQM/CIEH S4UL and SoBRA Vapour Inhalation GAC) for a future commercial/industrial end use, and therefore the contaminants recorded with the soils beneath Site are unlikely to present an unacceptable risk to human health.

Controlled Waters

Surface Water Receptors

Potential risks to the nearby surface water receptors would be mitigated by the low permeability of the Glacial Till (0.001m/d) underlying the Site and the surrounding areas, meaning that risks to the downgradient surface water receptors are unlikely to materialise. This is supported by the fact that the concentrations of cadmium, lead, nickel and ammonia recorded in the River Cefni were below EQS, with the exception of the natural background concentrations of chromium

This suggests that, based on the data currently available, the Site is not considered to present an unacceptable risk to nearby surface water receptors.

Groundwater

The localised marginal exceedances of the DWS for chloride, lead and selenium recorded within the superficial deposits beneath the Site are unlikely to present an unacceptable risk to the secondary and principal aquifers, as the average concentrations for the Site are below DWS.

Although localised concentrations of ammoniacal nitrogen beneath the Site also exceed DWS, these concentrations are likely to reduce back down to acceptable concentrations over time as a result of natural attenuation now that operations have ceased and there is no longer an ongoing source of ammonia entering the onsite drainage network.

Potential risks to the underlying principal aquifer are also likely to be mitigated further by the presence of low permeability weathered mudstone bedrock beneath the Site which will limit the potential for vertical migration of contaminants. Therefore, the Site is not considered to present an unacceptable to risk to groundwater receptors.

5.2.1 Overall Risk Summary

Based on the results of this investigation evidence of significant and widespread contamination were not identified; and any potential dissolved phase risks to controlled water receptors are likely to be mitigated by the low permeability of the shallow strata beneath the Site and in the surrounding area, and the natural attenuation of low-level residual organic contaminants that is likely to occur now that site operations have ceased. Therefore, unacceptable risks to human health and controlled waters are unlikely to be present in the context of a future industrial/commercial use of the Site, and in the absence of suitable baseline soil and groundwater data, the Site is considered to be suitable for permit surrender.

It should be noted that the findings of this assessment would need to be reviewed if the Site was to be redeveloped for a more sensitive end use (e.g. residential properties), or if unexpected contamination was subsequently encountered during future redevelopment.

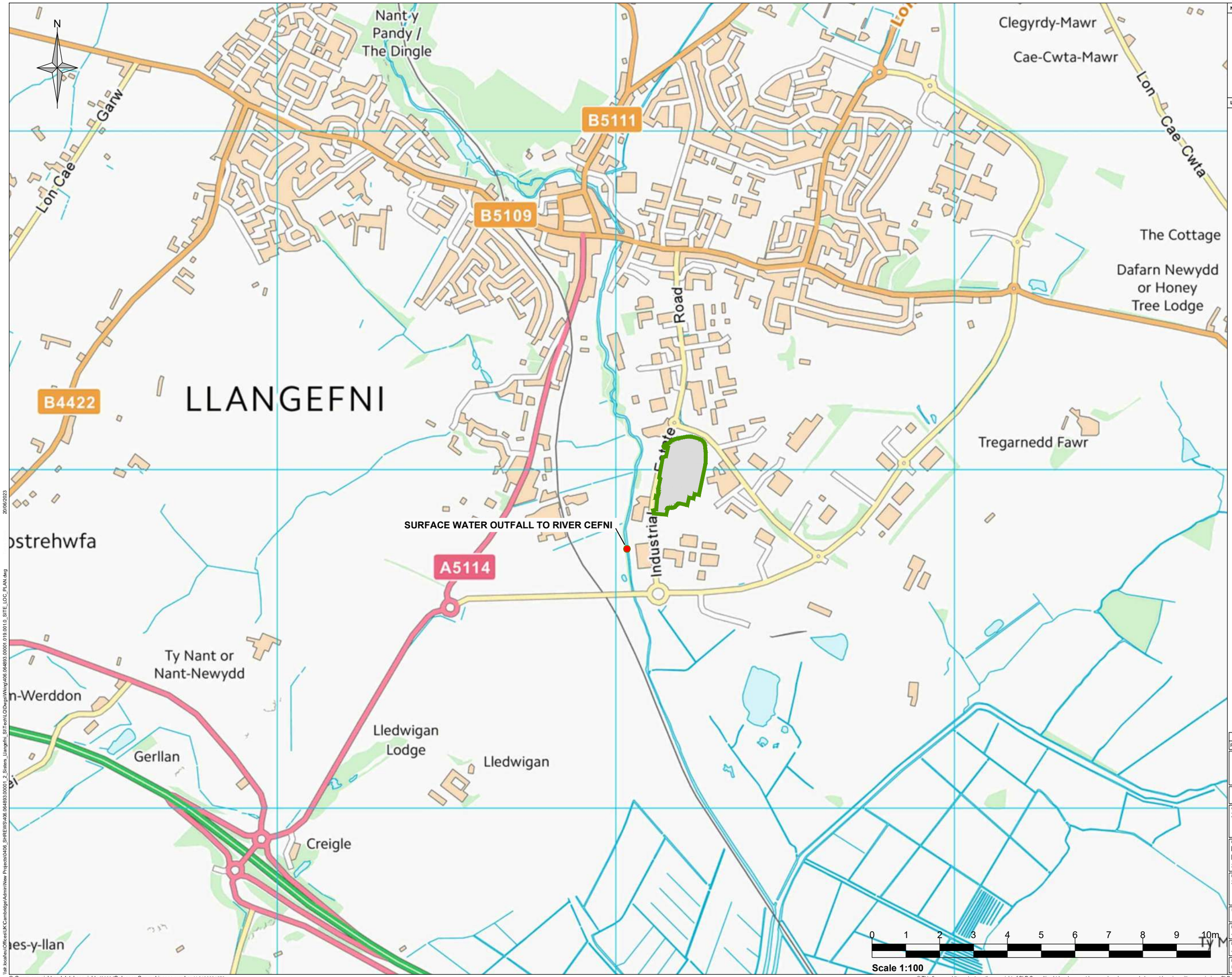
Appendix A Drawings

Environmental Permit (EP) Surrender Site Investigation Report

LLANGEFNI MEAT PROCESSING FACILITY

2 Sisters Food Group
SLR Project No.: 406.064893.00001

19 October 2023



Notes:

Legend:

ENVIRONMENTAL PERMIT BOUNDARY

Rev	Amendments	Date	By	Chk	Auth

SLR

www.slrconsulting.com

Client: 2 SISTERS FOOD GROUP

Project: LLANGEFNI MEAT PROCESSING FACILITY
ENVIRONMENTAL PERMIT (EP) SURRENDER
SITE CONDITION REPORT

Figure Title: SITE LOCATION PLAN

Scale	SLR Project No.
1:10,000 @ A3	406.064893.00001

Designed	Drawn	Checked	Authorised
JM	TKS	JM	JM
Date: JUNE 2023	Date: JUNE 2023	Date: JUNE 2023	Date: JUNE 2023

Figure Number: 01 Rev: 0

20/06/2023

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N

DIESEL TANK

FORMER DIESEL TANK

SLUDGE TANK

EFFLUENT TREATMENT ROOM

BOILER ROOM

OFFAL LOADING AREA

FORMER BLOOD TANK

CLEANING FLUID SPILL, 2019

TRANSFORMERS

TRICHLOROETHYLENE USED TO CLEAN OIL SPILLS

SURFACE WATER TANK

AMMONIA DETECTION SYSTEM AND PENSTOCK VALVE

INTERCEPTOR

CRACKS AND JOINTS IN CONCRETE HARDSTANDING

EFFLUENT TANK

FORMER WASTE OIL TANK

AMMONIA PLANT ROOM

SOAKAWAY

GRAVEL SOAKAWAYS

INTERCEPTOR

BH1 BH2 BH3 BH4 BH4A BH5 BH6 BH7 BH8 BH9 BH10 BH11 BH12 BH13 BH14 BH15 BH16

WORKSHOP & SWITCH ROOMS

REFUNDANT R22 PLANT ROOM 4

Anglesey Business Centre

El Sub Sta

0 10 20 30 40 50 60 70 80 90 100m

Scale 1:1,000

Notes:

1. DRAWING IS BASED ON CLIENT SUPPLIED PLAN.

Legend:

- ENVIRONMENTAL PERMIT BOUNDARY
- CURRENT / HISTORICAL DAMAGE / FLAWS TO DRAINAGE SYSTEM
- BOREHOLE / MONITORING WELL LOCATIONS
- BOREHOLE LOCATIONS - NOT INSTALLED

Rev	Amendments	Date	By	Chk	Auth

SLR

www.slrconsulting.com

Client: 2 SISTERS FOOD GROUP

Project: LLANGEFNI MEAT PROCESSING FACILITY ENVIRONMENTAL PERMIT (EP) SURRENDER SITE CONDITION REPORT

Figure Title: CURRENT SITE LAYOUT AND BOREHOLE LOCATION PLAN

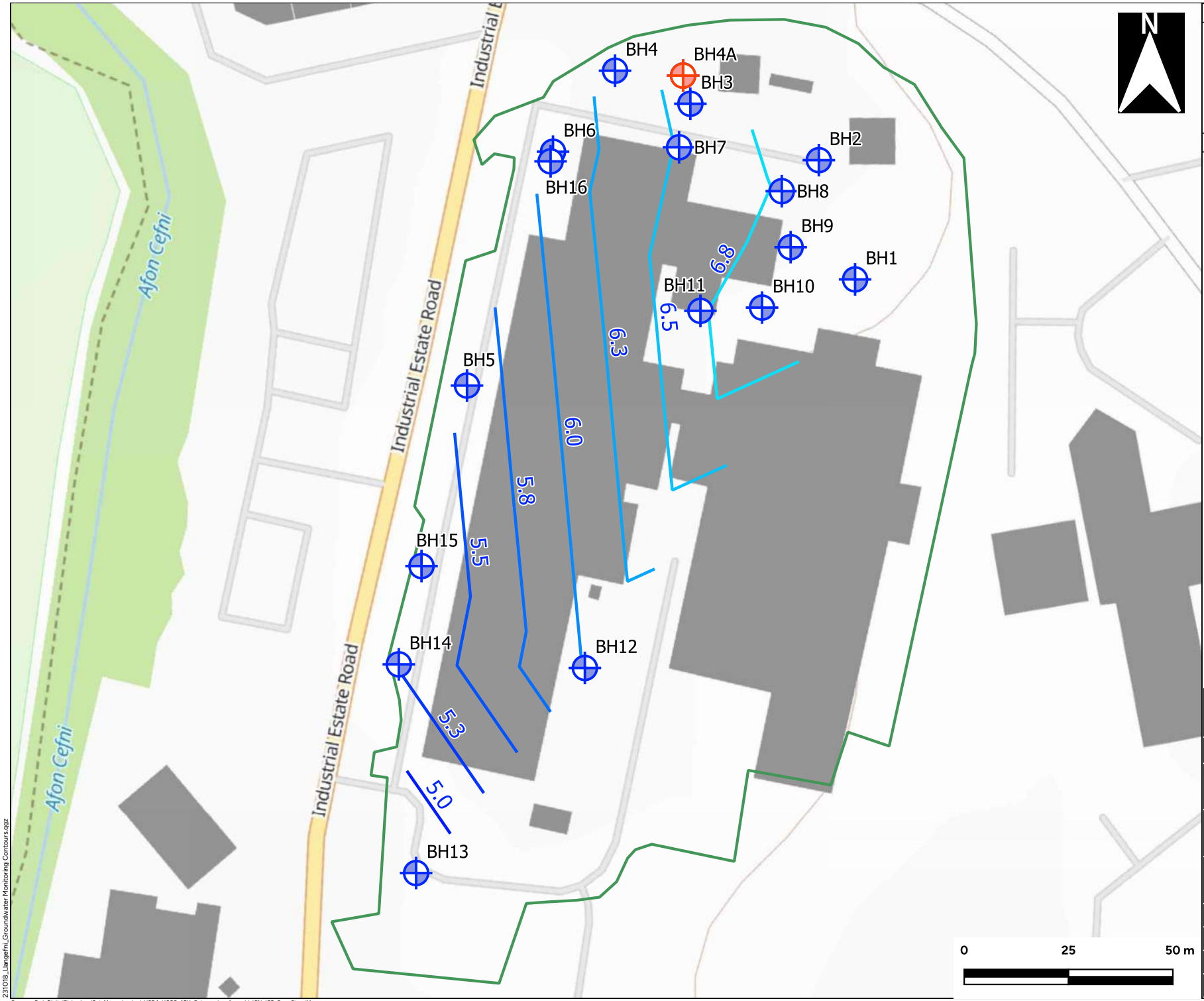
Scale	SLR Project No.
1:1000 @ A3	406.064893.00001

Designed	Drawn	Checked	Authorised
JM & EF	TKS & EF	MS	MS
Date: OCT 2023	Date: OCT 2023	Date: OCT 2023	Date: OCT 2023

Figure Number: 02 Rev.: 0

04/07/2023

\\dr.local\eu\Offices\UK\Cambridge\Admin\New Projects\0406_SHREWS\406.064893.00001_2_Sisters_Llangefni_SI\Tech\LQI\Dwgs\Wkng\406.064893.00001.019.002.0_CURRENT_SITE_LAYOUT.dwg



Notes

Legend:

- Site Permit Boundary
- BH Locations - Not Installed
- Monitoring Well Locations

Groundwater Elevation (mAOD)

- 4.8
- 5.0
- 5.3
- 5.5
- 5.8
- 6.0
- 6.3
- 6.5
- 6.8
- 7.1

SLR

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Client: 2 SISTERS FOOD GROUP

Project: LLANGEFNI MEAT PROCESSING FACILITY SITE INVESTIGATION

Figure Title: GROUNDWATER ELEVATION CONTOURS

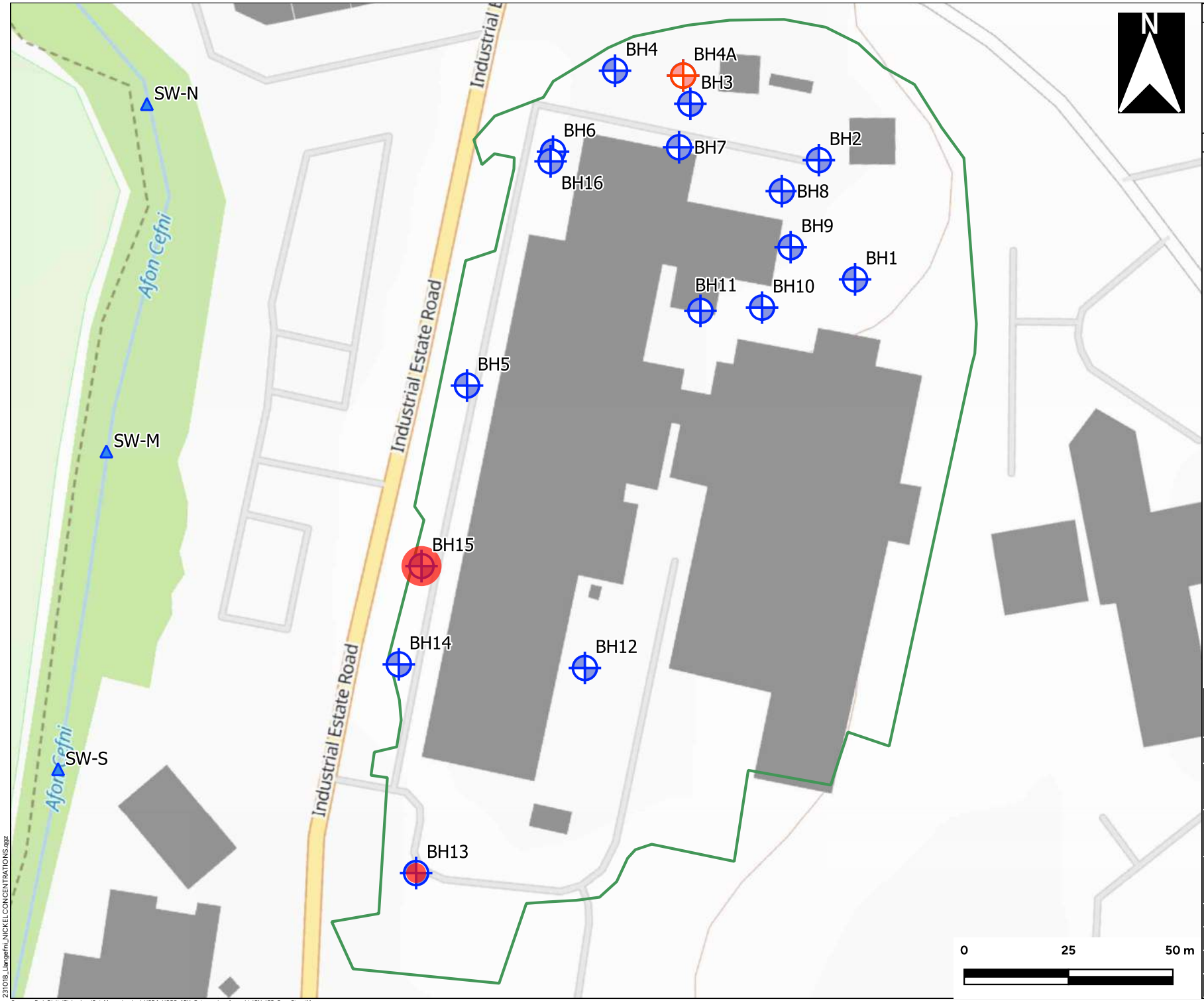
Scale	SLR Project No.
1:1,200	406.064893.00001

Designed	Drawn	Checked	Authorised
EF	EF	MS	MS
Date 18/10/23	Date 18/10/23	Date 18/10/23	Date 18/10/23

Figure Number: Drawing 03 | Rev. 1

231018_Llangefni_Groundwater Monitoring Contours.qgz

Sources: Esri, DigitalGlobe, LandSat, Maxar, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, OpenStreetMap, MapTiler, swisstopo, and the GIS User Community.



Notes

Legend:

- Site Permit Boundary
- BH Locations - Not Installed
- Monitoring Well Locations
- Surface Water Sampling Locations

Nickel Concentrations (mg/l)

- 0.044 - 0.088
- 0.088 - 0.13
- 0.13 - 0.18
- 0.18 - 0.22

SLR

www.slrconsulting.com

Client: 2 SISTERS FOOD GROUP

Project: LLANGEFNI MEAT PROCESSING FACILITY SITE INVESTIGATION

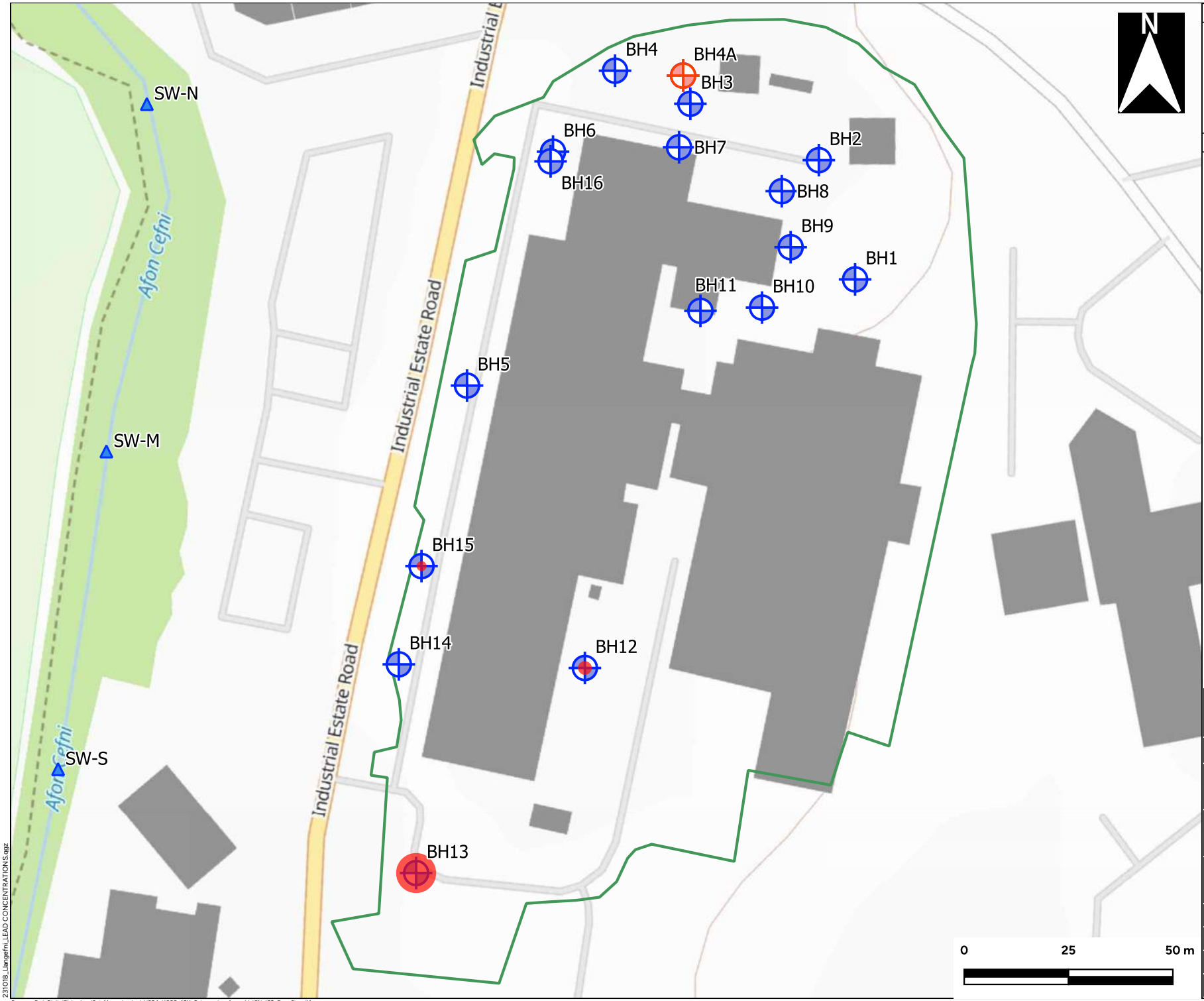
Figure Title: NICKEL CONCENTRATIONS IN GROUNDWATER

Scale	SLR Project No.
1:1,200	406.064893.00001

Designed	Drawn	Checked	Authorised
EF	EF	MS	MS
Date 18/10/23	Date 18/10/23	Date 18/10/23	Date 18/10/23

Figure Number: Drawing 04A | Rev. 1

231018_Llangefni_NICKEL CONCENTRATIONS.qgz



Notes

Legend:

- Site Permit Boundary
- BH Locations - Not Installed
- Monitoring Well Locations
- Surface Water Sampling Locations

Lead Concentrations (mg/l)

- 0.001 - 0.004
- 0.004 - 0.008
- 0.008 - 0.012
- 0.012 - 0.016
- 0.016 - 0.02

SLR

www.slrconsulting.com

Client: 2 SISTERS FOOD GROUP

Project: LLANGEFNI MEAT PROCESSING FACILITY SITE INVESTIGATION

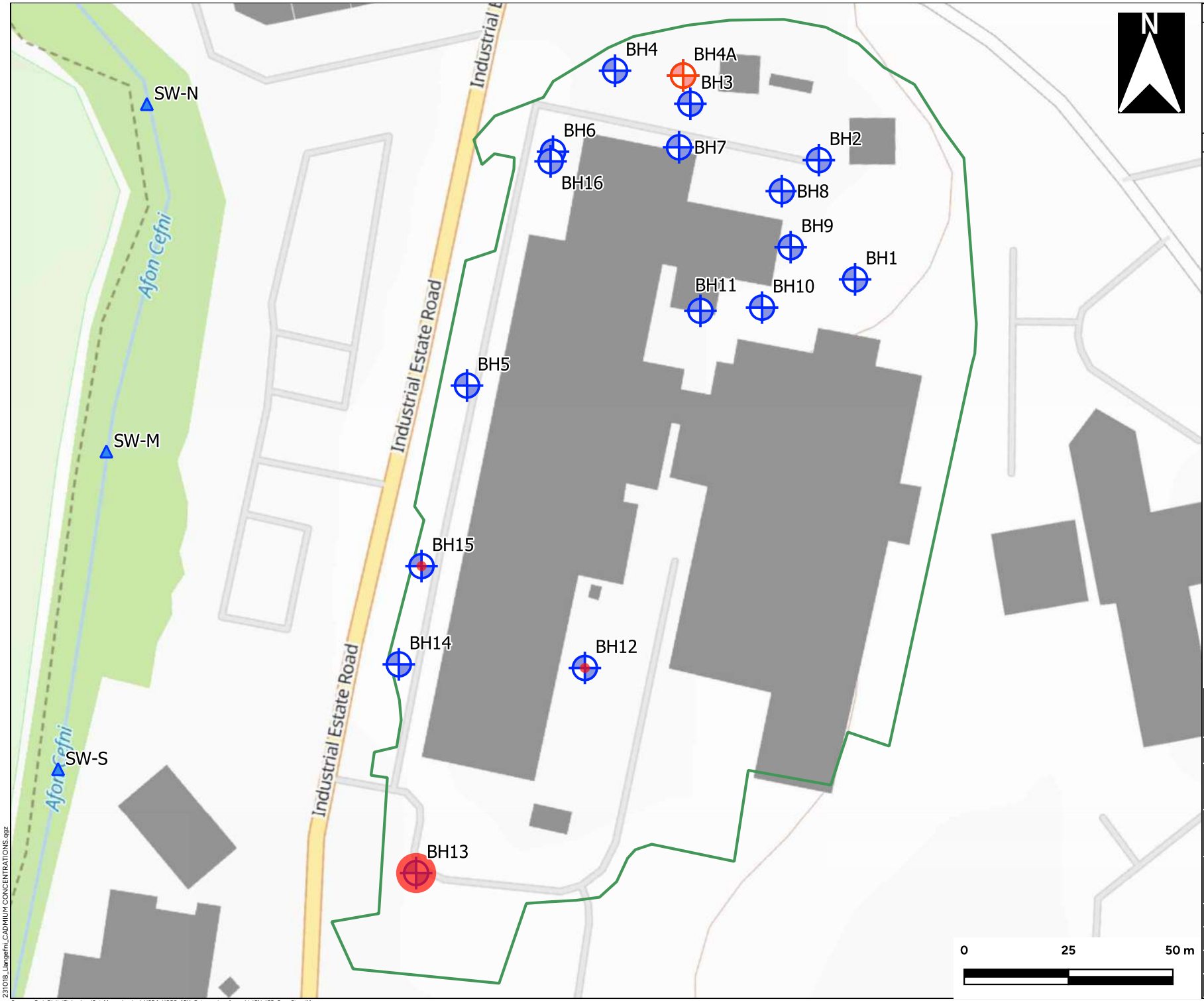
Figure Title: LEAD CONCENTRATIONS IN GROUNDWATER

Scale	SLR Project No.
1:1,200	406.064893.00001

Designed	Drawn	Checked	Authorised
EF	EF	MS	MS
Date 18/10/23	Date 18/10/23	Date 18/10/23	Date 18/10/23

Figure Number: Drawing 04B | Rev. 1

231018_Llangefni_LEAD CONCENTRATIONS.qgz



Notes

Legend:

- Site Permit Boundary
- BH Locations - Not Installed
- Monitoring Well Locations
- Surface Water Sampling Locations

Cadmium Concentrations (mg/l)

- 0.0006 - 0.0012
- 0.0012 - 0.0017
- 0.0017 - 0.0023
- 0.0023 - 0.0029

SLR

www.slrconsulting.com

Client: 2 SISTERS FOOD GROUP

Project: LLANGEFNI MEAT PROCESSING FACILITY SITE INVESTIGATION

Figure Title: CADMIUM CONCENTRATIONS IN GROUNDWATER

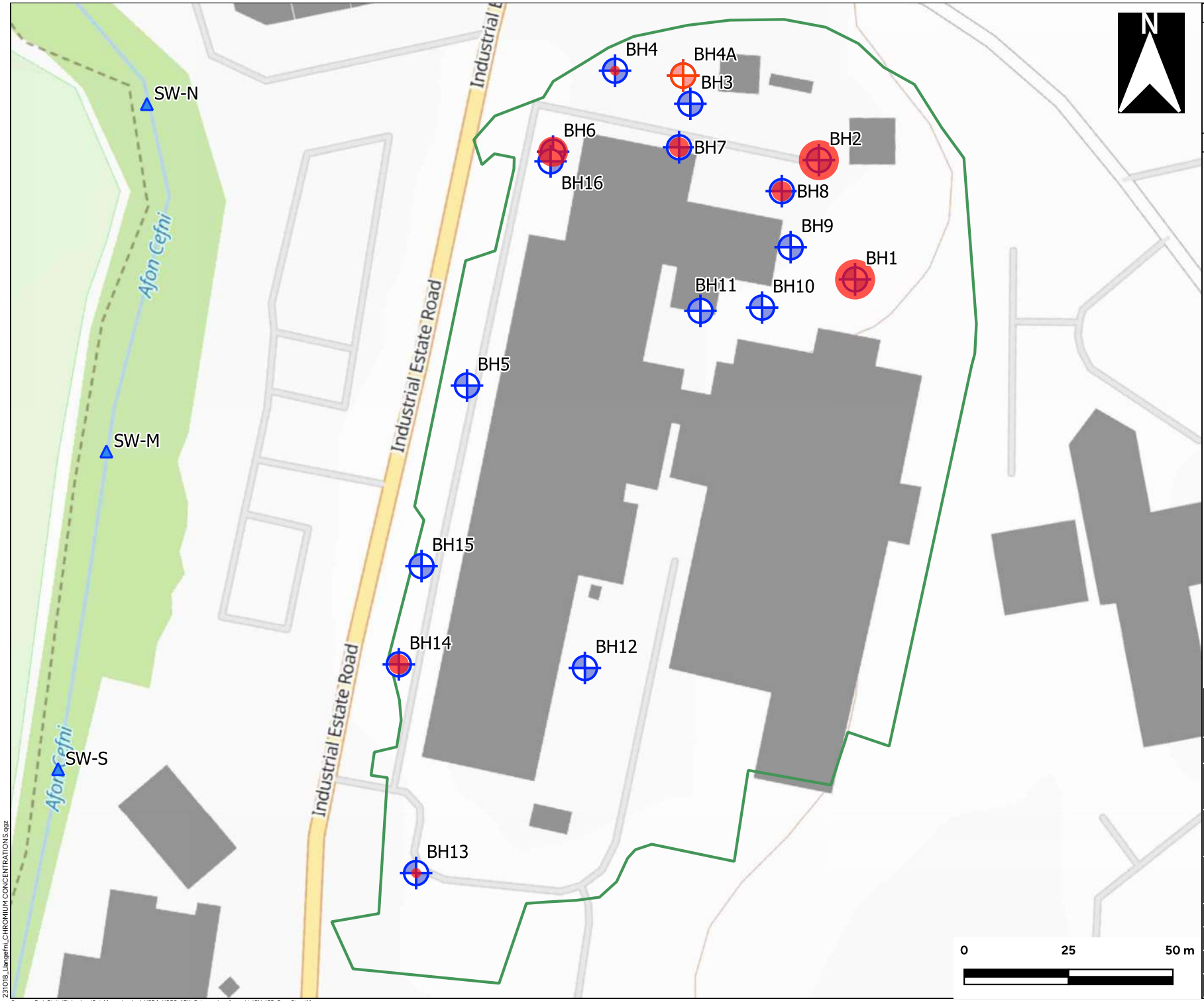
Scale	SLR Project No.
1:1,200	406.064893.00001

Designed	Drawn	Checked	Authorised
EF	EF	MS	MS
Date 18/10/23	Date 18/10/23	Date 18/10/23	Date 18/10/23

Figure Number: Drawing 04C | Rev. 1

231018_Llangefni_CADMIUM CONCENTRATIONS.qgz

Sources: Esri, DigitalGlobe, LandSat, Maxar, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, OpenStreetMap, MapTiler, swisstopo, and the GIS User Community.



Notes

Legend:

- Site Permit Boundary
- BH Locations - Not Installed
- Monitoring Well Locations
- Surface Water Sampling Locations

Chromium Concentrations (mg/l)

- 0.0017 - 0.0034
- 0.0034 - 0.0051
- 0.0051 - 0.0068
- 0.0068 - 0.0085

SLR

www.slrconsulting.com

Client: 2 SISTERS FOOD GROUP

Project: LLANGEFNI MEAT PROCESSING FACILITY SITE INVESTIGATION

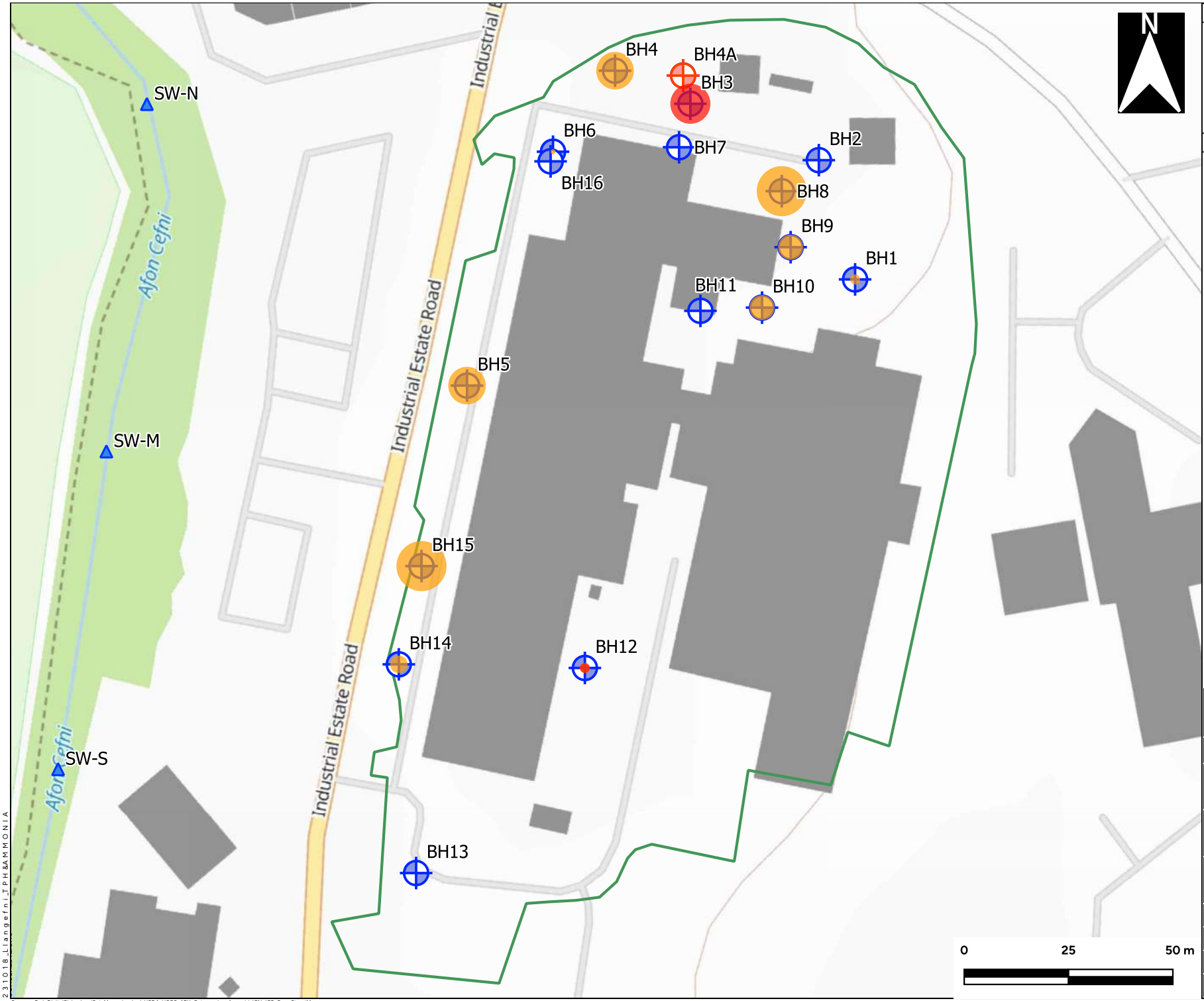
Figure Title: CHROMIUM CONCENTRATIONS IN GROUNDWATER

Scale	SLR Project No.
1:1,200	406.064893.00001

Designed	Drawn	Checked	Authorised
EF	EF	MS	MS
Date 18/10/23	Date 18/10/23	Date 18/10/23	Date 18/10/23

Figure Number: Drawing 04D | Rev. 1

231018_Llangefni_CHROMIUM CONCENTRATIONS.qgz



Notes

Legend:

- Site Permit Boundary
- BH Locations - Not Installed
- Monitoring Well Locations
- Surface Water Sampling Locations

TPH Concentrations (mg/l)

- 0.04 - 0.5
- 0.5 - 1.0
- 1.0 - 1.17

Ammonia Concentrations (mg/l)

- 0 - 0.05
- 0.05 - 0.11
- 0.11 - 0.13
- 0.13 - 0.28
- 0.28 - 1.40
- 1.40 - 12.3

SLR

www.slrconsulting.com

Client: 2 SISTERS FOOD GROUP

Project: LLANGEFNI MEAT PROCESSING FACILITY SITE INVESTIGATION

Figure Title: TPH AND AMMONIA CONCENTRATIONS IN GROUNDWATER

Scale	SLR Project No.
1:1,200	406.064893.00001

Designed	Drawn	Checked	Authorised
EF	EF	MS	MS
Date 18/10/23	Date 18/10/23	Date 18/10/23	Date 18/10/23

Figure Number: Drawing 05 | Rev. 1

231018_Llangefni_TPH&AMMONIA

Appendix B Borehole Logs

Environmental Permit (EP) Surrender Site Investigation Report

LLANGEFNI MEAT PROCESSING FACILITY

2 Sisters Food Group
SLR Project No.: 406.064893.00001

19 October 2023

BOREHOLE LOG

BOREHOLE No **BH1**

Client: **2 Sisters Food Group**

Project No:	Date:	Ground Level:	Co-ordinates:
406.064893.00001	05/09/2023	7.47m	E246227 N375064

Project: **Llangefni SI**

Sheet 1 of 1

SAMPLES & TESTS				Water	STRATA				
Depth	Type No	Test Type	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION	Instrument Backfill
					7.27		0.20	Concrete hardstanding.	
0.30 - 0.50	ES							MOT Type 1 Sub (grey silty sandy gravel). (MADE GROUND)	
		HS	0ppm	▼	6.87		0.60		
1		HS	0ppm					Reddish brown fine to coarse angular to subrounded silty sandy very clayey GRAVEL of mixed igneous and metamorphic lithologies, sandstone. Sand is of fine to coarse subrounded to rounded quartz. Frequent cobbles of mixed igneous and metamorphic lithologies. (GLACIAL TILL)	
1.20 - 1.40	ES						(1.60)		
		HS	0ppm						
1.90 - 2.20	ES								
2		HS	0ppm		5.27		2.20		
								Borehole Complete at 2.20m	
3									

Boring Progress and Water Observations					Chiselling			Water Added		General Remarks
Date	Depth	Casing Dpt	Casing Dia	Water Dpt	From	To	Hours	From	To	Refused on weathered bedrock. No visual or olfactory indications of contamination.

All dimensions in metres	Contractor: Geotron	Method: Window Sampler	Logged By:	Approved By:
Scale 1:27	Plant: Competitor Dart	Hole Size: 150mm	EF	MS

LOGGING HAS BEEN CARRIED OUT IN ACCORDANCE WITH BS5930:2015+A2:2020

BOREHOLE LOG

BOREHOLE No **BH2**

Client: **2 Sisters Food Group**

Project No:	Date:	Ground Level:	Co-ordinates:
406.064893.00001	06/09/2023	7.45m	E246227 N375064

Project: **Llangefni SI**

Sheet 1 of 1

SAMPLES & TESTS				Water	STRATA				
Depth	Type No	Test Type	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION	Instrument Backfill
					7.22		0.23	Concrete hardstanding.	
					6.95		0.50	MOT Type 1 Sub (grey silty sandy gravel). (MADE GROUND)	
0.60 - 0.80	ES	HS	1ppm	▼				Reddish brown fine to coarse angular to subrounded silty sandy very clayey GRAVEL of mixed igneous and metamorphic lithologies, sandstone. Sand is of fine to coarse subrounded to rounded quartz. Frequent cobbles of mixed igneous and metamorphic lithologies. (GLACIAL TILL)	
1		HS	1ppm				(1.10)		
1.40 - 1.60	ES								
		HS	0ppm		5.85		1.60		
								Borehole Complete at 1.60m	
2									
3									

Boring Progress and Water Observations					Chiselling			Water Added		General Remarks
Date	Depth	Casing Dpt	Casing Dia	Water Dpt	From	To	Hours	From	To	Refused on weathered bedrock. No visual or olfactory indications of contamination.

All dimensions in metres	Contractor: Geotron	Method: Window Sampler	Logged By:	Approved By:
Scale 1:27	Plant: Competitor Dart	Hole Size: 150mm	EF	MS

LOGGING HAS BEEN CARRIED OUT IN ACCORDANCE WITH BS5930:2015+A2:2020

BOREHOLE LOG

BOREHOLE No **BH3**

Client: **2 Sisters Food Group**

Project No:	Date:	Ground Level:	Co-ordinates:
406.064893.00001	07/09/2023	7.70m	E246196 N375079

Project: **Llangefni SI**

Sheet 1 of 1

SAMPLES & TESTS				Water	STRATA				
Depth	Type No	Test Type	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION	Instrument Backfill
					7.46		0.24	Concrete hardstanding.	
					7.30		0.40	MOT Type 1 Sub (grey silty sandy gravel). (MADE GROUND)	
0.50	ES	HS	16ppm					Reddish brown fine to coarse angular to subrounded silty sandy very clayey GRAVEL of mixed igneous and metamorphic lithologies, sandstone. Sand is of fine to coarse subrounded to rounded quartz. Frequent cobbles of mixed igneous and metamorphic lithologies. (GLACIAL TILL) *0.50 - 1.75 Strong hydrocarbon odour.*	
1.00 1	ES	HS	259ppm	▼			(1.35)		
1.50	ES	HS	373ppm						
1.75	ES				5.95		1.75		
								Dark grey weathered bedrock of MUDSTONE. (CLWYD LIMESTONE GROUP)	
2.00 2	ES	HS	23ppm		5.70		2.00		
3								Borehole Complete at 2.00m	

Boring Progress and Water Observations					Chiselling			Water Added		General Remarks
Date	Depth	Casing Dpt	Casing Dia	Water Dpt	From	To	Hours	From	To	Refused on weathered bedrock. Strong hydrocarbon odour present from 0.5m to base of borehole.

All dimensions in metres	Contractor: Geotron	Method: Window Sampler	Logged By:	Approved By:
Scale 1:27	Plant: Competitor Dart	Hole Size: 150mm	EF	MS

LOGGING HAS BEEN CARRIED OUT IN ACCORDANCE WITH BS5930:2015+A2:2020

BOREHOLE LOG

BOREHOLE No **BH4**

Client: **2 Sisters Food Group**

Project No:	Date:	Ground Level:	Co-ordinates:
406.064893.00001	07/09/2023	7.77m	E246178 N375090

Project: **Llangefni SI**

Sheet 1 of 1

SAMPLES & TESTS				Water	STRATA				
Depth	Type No	Test Type	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION	Instrument Backfill
		HS	0ppm					Brown slightly cobbly SAND and GRAVEL. Sand is of fine to medium subrounded to subangular quartz. Gravel is of fine to medium subrounded to subangular mixed igneous and metamorphic lithologies. Frequent cobbles of mixed igneous and metamorphic lithologies.	
0.60	ES						(1.30)		
		HS	0ppm						
					6.47		1.30		
1.40	ES				6.27		1.50	Reddish brown fine to coarse angular to subrounded silty sandy very clayey GRAVEL of mixed igneous and metamorphic lithologies, sandstone. Sand is of fine to coarse subrounded to rounded quartz. (GLACIAL TILL)	
		HS	0ppm						
1.60	ES			▼				Dark grey weathered bedrock of MUDSTONE. (CLWYD LIMESTONE GROUP)	
		HS	0ppm		5.87		1.90		
		HS	0ppm					Borehole Complete at 1.90m	

Boring Progress and Water Observations					Chiselling			Water Added		General Remarks
Date	Depth	Casing Dpt	Casing Dia	Water Dpt	From	To	Hours	From	To	Refused on weathered bedrock. No visual or olfactory indications of contamination.

All dimensions in metres	Contractor: Geotron	Method: Window Sampler	Logged By:	Approved By:
Scale 1:27	Plant: Competitor Dart	Hole Size: 150mm	EF	MS

LOGGING HAS BEEN CARRIED OUT IN ACCORDANCE WITH BS5930:2015+A2:2020

HAND PIT LOG

HAND PIT No **BH4A**

Client: **2 Sisters Food Group**

Project: **Llangefni SI**

Project No:	Date:	Ground Level:	Co-ordinates:	Sheet
406.064893.00001	07/09/2023	8.04m	E246195 N375086	1 of 1

SAMPLES & TESTS				Water	STRATA				Instrument Backfill
Depth	Type No	Test Type	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION	
0.30	ES	HS	0ppm		7.54		(0.50) 0.50	Brown slightly cobbly SAND and GRAVEL. Sand is of fine to medium subrounded to subangular quartz. Gravel is of fine to medium subrounded to subangular mixed igneous and metamorphic lithologies. Frequent cobbles of brick. (MADE GROUND)	
								Hand Dug Pit Complete at 0.50m	

0.2, 0.4, 0.6, 0.8, 1.0, 1.2, 1.4, 1.6, 1.8, 2.0, 2.2, 2.4, 2.6, 2.8, 3.0, 3.2, 3.4, 3.6, 3.8

GENERAL REMARKS:

Hand pit refused on concrete slab.

No visual or olfactory indications of contamination.

KEY
V = Hand Vane Shear Strength
PP = Pocket Penetrometer Shear Strength
J = Jar Sample
D = Disturbed Sample
B = Large Bulk Sample
HS = Head Space Measurement

Hand Pit Dimensions:

Shoring/Support:

Stability:

All dimensions in metres	Contractor: Geotron	Method: Hand Tools	Logged By:	Approved By:
Scale 1:26	Plant: None		EF	MS

LOGGING HAS BEEN CARRIED OUT IN ACCORDANCE WITH BS5930:2015+A2:2020

BOREHOLE LOG

BOREHOLE No **BH5**

Client: **2 Sisters Food Group**

Project No:	Date:	Ground Level:	Co-ordinates:
406.064893.00001	06/09/2023	6.78m	E246137 N374987

Project: **Llangefni SI**

Sheet 1 of 1

SAMPLES & TESTS				Water	STRATA				
Depth	Type No	Test Type	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION	Instrument / Backfill
					6.72		0.07	Asphalt hardstanding.	
								Brown cobbly sandy GRAVEL of fine to coarse angular to subangular mixed igneous and metamorphic lithologies. Sand is of fine to coarse subrounded to subangular quartz. Cobbles are of angular mixed igneous and metamorphic lithologies.	
		HS	0ppm						
0.60	ES						(1.48)		
1		HS	0ppm						
1.10	ES			▼					
		HS	0ppm		5.23		1.55		
								Reddish brown fine to coarse angular to subrounded silty sandy very clayey GRAVEL of mixed igneous and metamorphic lithologies, sandstone. Sand is of fine to coarse subrounded to rounded quartz. (GLACIAL TILL)	
2		HS	0ppm						
2.40	ES						(1.65)		
		HS	0ppm						
3		HS	0ppm		3.58		3.20		
								Dark grey weathered bedrock of MUDSTONE. (CLWYD LIMESTONE GROUP)	
3.40	ES				3.28		3.50		
		HS	0ppm					Borehole Complete at 3.50m	

Boring Progress and Water Observations					Chiselling			Water Added		General Remarks
Date	Depth	Casing Dpt	Casing Dia	Water Dpt	From	To	Hours	From	To	Refused on weathered bedrock. No visual or olfactory indications of contamination.

All dimensions in metres	Contractor: Geotron	Method: Window Sampler	Logged By:	Approved By:
Scale 1:27	Plant: Competitor Dart	Hole Size: 150mm	EF	MS

LOGGING HAS BEEN CARRIED OUT IN ACCORDANCE WITH BS5930:2015+A2:2020

BOREHOLE LOG

BOREHOLE No **BH6**

Client: **2 Sisters Food Group**

Project No:	Date:	Ground Level:	Co-ordinates:
406.064893.00001	06/09/2023	7.15m	E246163 N375068

Project: **Llangefni SI**

Sheet 1 of 1

SAMPLES & TESTS				Water	STRATA				
Depth	Type No	Test Type	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION	Instrument Backfill
					7.04		0.11	Asphalt hardstanding.	
					6.94		0.21	MOT Type 1 Sub (grey silty sandy gravel). (MADE GROUND)	
0.40	ES	HS	0ppm		6.55		0.60	Brownish grey slightly cobbly sandy GRAVEL of fine to coarse angular to subangular mixed igneous and metamorphic lithologies and sandstone. Sand is of fine to medium subrounded to subangular quartz. Cobbles are of mixed igneous and metamorphic lithologies.	
1		HS	0ppm				(1.00)	Orangish brown fine to coarse angular to subrounded silty sandy very clayey GRAVEL of mixed igneous and metamorphic lithologies, sandstone. Sand is of fine to coarse subrounded to rounded quartz. Clay content increases with depth. (GLACIAL TILL)	
		HS	0ppm		5.55		1.60		
1.75	ES							Dark grey weathered bedrock of MUDSTONE. (CLWYD LIMESTONE GROUP)	
2		HS	0ppm		5.15		2.00		
								Borehole Complete at 2.00m	
3									

Boring Progress and Water Observations					Chiselling			Water Added		General Remarks
Date	Depth	Casing Dpt	Casing Dia	Water Dpt	From	To	Hours	From	To	Refused on weathered bedrock. No visual or olfactory indications of contamination.

All dimensions in metres	Contractor: Geotron	Method: Window Sampler	Logged By:	Approved By:
Scale 1:27	Plant: Competitor Dart	Hole Size: 150mm	EF	MS

LOGGING HAS BEEN CARRIED OUT IN ACCORDANCE WITH BS5930:2015+A2:2020

BOREHOLE LOG

BOREHOLE No **BH7**

Client: **2 Sisters Food Group**

Project No:	Date:	Ground Level:	Co-ordinates:
406.064893.00001	07/09/2023	7.23m	E246218 N375060

Project: **Llangefni SI**

Sheet 1 of 1

SAMPLES & TESTS				Water	STRATA				
Depth	Type No	Test Type	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION	Instrument / Backfill
					7.02		0.21	Concrete hardstanding.	
					6.73		0.50	MOT Type 1 Sub (grey silty sandy gravel). (MADE GROUND)	
0.50 - 0.80	ES	HS	0ppm	▼				Reddish brown fine to coarse angular to subrounded silty sandy very clayey GRAVEL of mixed igneous and metamorphic lithologies, sandstone. Sand is of fine to coarse subrounded to rounded quartz. Frequent cobbles of mixed igneous and metamorphic lithologies. (GLACIAL TILL)	
1		HS	0ppm						
1.20 - 1.40	ES						(1.40)		
		HS	0ppm						
1.70 - 1.90	ES								
		HS	0ppm		5.33		1.90		
2								Borehole Complete at 1.90m	
3									

Boring Progress and Water Observations					Chiselling			Water Added		General Remarks
Date	Depth	Casing Dpt	Casing Dia	Water Dpt	From	To	Hours	From	To	Refused on weathered bedrock. No visual or olfactory indications of contamination.

All dimensions in metres	Contractor: Geotron	Method: Window Sampler	Logged By:	Approved By:
Scale 1:27	Plant: Competitor Dart	Hole Size: 150mm	EF	MS

LOGGING HAS BEEN CARRIED OUT IN ACCORDANCE WITH BS5930:2015+A2:2020

BOREHOLE LOG

BOREHOLE No **BH8**

Client: **2 Sisters Food Group**

Project No:	Date:	Ground Level:	Co-ordinates:
406.064893.00001	05/09/2023	7.42m	E246218 N375060

Project: **Llangefni SI**

Sheet 1 of 1

SAMPLES & TESTS				Water	STRATA				
Depth	Type No	Test Type	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION	Instrument Backfill
0.20 - 0.50	ES				7.22		0.20	Concrete hardstanding.	
		HS	0ppm		6.92		0.50	MOT Type 1 Sub (grey silty sandy gravel). (MADE GROUND)	
0.80 - 1.00	ES			▼				Reddish brown fine to coarse angular to subrounded silty sandy very GRAVEL of mixed igneous and metamorphic lithologies, sandstone and altered limestone. Sand is of fine to coarse subrounded to rounded quartz. Frequent cobbles of mixed igneous and metamorphic lithologies. (GLACIAL TILL)	
1		HS	0ppm						
		HS	0ppm				(2.30)		
2		HS	0ppm						
2.50 - 2.80	ES								
		HS	0ppm		4.62		2.80		
3								Borehole Complete at 2.80m	

Boring Progress and Water Observations					Chiselling			Water Added		General Remarks
Date	Depth	Casing Dpt	Casing Dia	Water Dpt	From	To	Hours	From	To	Refused on weathered bedrock. No visual or olfactory indications of contamination.

All dimensions in metres	Contractor: Geotron	Method: Window Sampler	Logged By:	Approved By:
Scale 1:27	Plant: Competitor Dart	Hole Size: 150mm	EF	MS

LOGGING HAS BEEN CARRIED OUT IN ACCORDANCE WITH BS5930:2015+A2:2020

BOREHOLE LOG

BOREHOLE No **BH9**

Client: **2 Sisters Food Group**

Project No:	Date:	Ground Level:	Co-ordinates:
406.064893.00001	07/09/2023	7.32m	E246218 N375060

Project: **Llangefni SI**

Sheet 1 of 1

SAMPLES & TESTS				Water	STRATA				
Depth	Type No	Test Type	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION	Instrument Backfill
					7.12		0.20	Concrete hardstanding.	
					7.02		0.30	MOT Type 1 Sub (grey silty sandy gravel). (MADE GROUND)	
0.40	ES	HS	0ppm	▼	6.72		0.60	Brownish grey silty sandy GRAVEL of fine to coarse subangular to angular mixed igneous and metamorphic lithologies. (GLACIAL TILL)	
								Borehole Complete at 0.60m	

1

2

3

Boring Progress and Water Observations					Chiselling			Water Added		General Remarks
Date	Depth	Casing Dpt	Casing Dia	Water Dpt	From	To	Hours	From	To	Refused on weathered bedrock. No visual or olfactory indications of contamination.

All dimensions in metres	Contractor: Geotron	Method: Window Sampler	Logged By:	Approved By:
Scale 1:27	Plant: Competitor Dart	Hole Size: 150mm	EF	MS

LOGGING HAS BEEN CARRIED OUT IN ACCORDANCE WITH BS5930:2015+A2:2020

BOREHOLE LOG

BOREHOLE No **BH10**

Client: **2 Sisters Food Group**

Project No:	Date:	Ground Level:	Co-ordinates:
406.064893.00001	06/09/2023	7.40m	E246212 N375032

Project: **Llangefni SI**

Sheet 1 of 1

SAMPLES & TESTS				Water	STRATA				
Depth	Type No	Test Type	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION	Instrument Backfill
					7.21		0.19	Concrete hardstanding.	
					7.00		0.40	MOT Type 1 Sub (grey silty sandy gravel). (MADE GROUND)	
0.50 - 0.70	ES	HS	0ppm	▼				Reddish brown fine to coarse angular to subrounded silty sandy very clayey GRAVEL of mixed igneous and metamorphic lithologies, sandstone. Sand is of fine to coarse subrounded to rounded quartz. Frequent cobbles of mixed igneous and metamorphic lithologies. (GLACIAL TILL)	
1		HS	1ppm						
1.30 - 1.50	ES						(2.10)		
		HS	0ppm						
2		HS	0ppm						
2.30 - 2.50	ES								
		HS	0ppm		4.90		2.50		
								Borehole Complete at 2.50m	
3									

Boring Progress and Water Observations					Chiselling			Water Added		General Remarks
Date	Depth	Casing Dpt	Casing Dia	Water Dpt	From	To	Hours	From	To	Refused on weathered bedrock. No visual or olfactory indications of contamination.

All dimensions in metres	Contractor: Geotron	Method: Window Sampler	Logged By:	Approved By:
Scale 1:27	Plant: Competitor Dart	Hole Size: 150mm	EF	MS

LOGGING HAS BEEN CARRIED OUT IN ACCORDANCE WITH BS5930:2015+A2:2020

BOREHOLE LOG

BOREHOLE No **BH11**

Client: **2 Sisters Food Group**

Project No:	Date:	Ground Level:	Co-ordinates:
406.064893.00001	06/09/2023	7.29m	E246197 N375030

Project: **Llangefni SI**

Sheet 1 of 1

SAMPLES & TESTS				Water	STRATA				
Depth	Type No	Test Type	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION	Instrument Backfill
					7.04		0.25	Concrete hardstanding.	
					6.79		0.50	MOT Type 1 Sub (grey silty sandy gravel). (MADE GROUND)	
		HS	0ppm					Reddish brown fine to coarse angular to subrounded silty sandy very clayey GRAVEL of mixed igneous and metamorphic lithologies, sandstone. Sand is of fine to coarse subrounded to rounded quartz. Frequent cobbles of mixed igneous and metamorphic lithologies. (GLACIAL TILL)	
0.60 - 0.80	ES								
1		HS	0ppm						
1.20 - 1.40	ES								
		HS	1ppm				(2.10)		
2		HS	0ppm						
2.40 - 2.60	ES								
		HS	0ppm		4.69		2.60		
								Borehole Complete at 2.60m	
3									

Boring Progress and Water Observations					Chiselling			Water Added		General Remarks
Date	Depth	Casing Dpt	Casing Dia	Water Dpt	From	To	Hours	From	To	Refused on weathered bedrock. No visual or olfactory indications of contamination.

All dimensions in metres	Contractor: Geotron	Method: Window Sampler	Logged By:	Approved By:
Scale 1:27	Plant: Competitor Dart	Hole Size: 150mm	EF	MS

LOGGING HAS BEEN CARRIED OUT IN ACCORDANCE WITH BS5930:2015+A2:2020

BOREHOLE LOG

BOREHOLE No **BH12**

Client: **2 Sisters Food Group**

Project No:	Date:	Ground Level:	Co-ordinates:
406.064893.00001	07/09/2023	7.24m	E246170 N374944

Project: **Llangefni SI**

Sheet 1 of 1

SAMPLES & TESTS				Water	STRATA				
Depth	Type No	Test Type	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION	Instrument Backfill
					7.10		0.14	Concrete hardstanding.	
0.20 - 0.40	ES								
					6.84		0.40	Brownish grey fine to coarse subangular to angular very sandy silty GRAVEL of mixed igneous lithologies and concrete. Sand is of fine to medium subrounded to rounded quartz. (MADE GROUND)	
		HS	0ppm					Reddish brown fine to coarse angular to subrounded silty sandy very clayey GRAVEL of mixed igneous and metamorphic lithologies, sandstone. Sand is of fine to coarse subrounded to rounded quartz. Frequent cobbles of mixed igneous and metamorphic lithologies. (GLACIAL TILL)	
1		HS	0ppm						
1.40 - 1.60	ES								
		HS	0ppm				(2.40)		
2		HS	0ppm						
2.40 - 2.60	ES								
		HS	0ppm						
					4.44		2.80	Dark grey weathered bedrock of MUDSTONE. (CLWYD LIMESTONE GROUP)	
3.00 - 3.20	3 ES								
		HS	0ppm		4.04		3.20		
								Borehole Complete at 3.20m	

Boring Progress and Water Observations					Chiselling			Water Added		General Remarks
Date	Depth	Casing Dpt	Casing Dia	Water Dpt	From	To	Hours	From	To	Refused on weathered bedrock. No visual or olfactory indications of contamination.

All dimensions in metres	Contractor: Geotron	Method: Window Sampler	Logged By:	Approved By:
Scale 1:27	Plant: Competitor Dart	Hole Size: 150mm	EF	MS

LOGGING HAS BEEN CARRIED OUT IN ACCORDANCE WITH BS5930:2015+A2:2020

BOREHOLE LOG

BOREHOLE No **BH13**

Client: **2 Sisters Food Group**

Project No:	Date:	Ground Level:	Co-ordinates:
406.064893.00001	04/09/2023	5.92m	E246131 N374890

Project: **Llangefni SI**

Sheet 1 of 1

SAMPLES & TESTS				Water	STRATA				
Depth	Type No	Test Type	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION	Instrument / Backfill
					5.70		0.22	Concrete hardstanding.	
		HS	1ppm				(0.88)	Brownish grey fine to coarse subangular to angular very sandy silty GRAVEL of mixed igneous lithologies and concrete. Sand is of fine to medium subrounded to rounded quartz. (MADE GROUND)	
0.80 - 1.00	ES								
1		HS	0ppm		4.82		1.10		
		HS	0ppm	▼				Reddish brown fine to coarse angular to subrounded silty sandy very clayey GRAVEL of mixed igneous and metamorphic lithologies, sandstone. Sand is of fine to coarse subrounded to rounded quartz. Frequent cobbles of mixed igneous and metamorphic lithologies. (GLACIAL TILL)	
2		HS	0ppm				(2.10)		
2.50 - 3.20	ES	HS	0ppm						
3					2.72		3.20		
		HS	0ppm					Borehole Complete at 3.20m	

Boring Progress and Water Observations				
Date	Depth	Casing Dpt	Casing Dia	Water Dpt

Chiselling			Water Added	
From	To	Hours	From	To

General Remarks

Refused on weathered bedrock.

No visual or olfactory indications of contamination.

All dimensions in metres	Contractor: Geotron	Method: Window Sampler	Logged By:	Approved By:
Scale 1:27	Plant: Competitor Dart	Hole Size: 150mm	EF	MS

LOGGING HAS BEEN CARRIED OUT IN ACCORDANCE WITH BS5930:2015+A2:2020

BOREHOLE LOG

BOREHOLE No **BH14**

Client: **2 Sisters Food Group**

Project No:	Date:	Ground Level:	Co-ordinates:
406.064893.00001	05/09/2023	6.78m	E246127 N374948

Project: **Llangefni SI**

Sheet 1 of 1

SAMPLES & TESTS				Water	STRATA				
Depth	Type No	Test Type	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION	Instrument / Backfill
					6.68		0.10	Topsoil.	
0.50 - 0.90	ES	HS	0ppm				(0.70)	Brown fine to coarse angular to subrounded slightly silty sandy cobbly GRAVEL of sandstone and mixed igneous and metamorphic lithologies. Sand is of fine to medium subrounded to rounded quartz. Cobbles are of matrix supported conglomerate and mixed igenous and metamorphic lithologies. (GLACIAL TILL)	
					5.98		0.80		
1		HS	0ppm					Brownish grey fine to coarse angular to subrounded sandy silty GRAVEL of mixed metamorphic lithologies and sandstone. Sand is of fine to medium subrounded to rounded quartz. (GLACIAL TILL)	
		HS	0ppm	▼			(2.20)		
2.00 - 2.50 2	ES	HS	0ppm						
		HS	0ppm						
3		HS	0ppm		3.78		3.00		
								Borehole Complete at 3.00m	

Boring Progress and Water Observations					Chiselling			Water Added		General Remarks
Date	Depth	Casing Dpt	Casing Dia	Water Dpt	From	To	Hours	From	To	Refused on weathered bedrock. No visual or olfactory indications of contamination.

All dimensions in metres	Contractor: Geotron	Method: Window Sampler	Logged By:	Approved By:
Scale 1:27	Plant: Competitor Dart	Hole Size: 150mm	EF	MS

LOGGING HAS BEEN CARRIED OUT IN ACCORDANCE WITH BS5930:2015+A2:2020

BOREHOLE LOG

BOREHOLE No **BH15**

Client: **2 Sisters Food Group**

Project No:	Date:	Ground Level:	Co-ordinates:
406.064893.00001	05/09/2023	6.82m	E246131 N374966

Project: **Llangefni SI**

Sheet 1 of 1

SAMPLES & TESTS				Water	STRATA				
Depth	Type No	Test Type	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION	Instrument Backfill
					6.72		0.10	Topsoil.	
0.50 - 0.70	ES	HS	0ppm				(0.75)	Brown fine to coarse angular to subrounded slightly silty sandy cobbly GRAVEL of sandstone and mixed igneous and metamorphic lithologies. Sand is of fine to medium subrounded to rounded quartz. Cobbles are of matrix supported conglomerate and mixed igenous and metamorphic lithologies. (GLACIAL TILL)	
					5.97		0.85		
1		HS	0ppm					Reddish brown fine to coarse angular to subrounded silty sandy very clayey GRAVEL of mixed igneous and metamorphic lithologies, sandstone. Sand is of fine to coarse subrounded to rounded quartz. Frequent cobbles of mixed igneous and metamorphic lithologies. (GLACIAL TILL)	
1.50 - 2.00	ES	HS	0ppm	▼					
2		HS	0ppm				(2.65)		
		HS	0ppm						
3.00 - 3.50	3 ES	HS	0ppm						
		HS	0ppm		3.32		3.50		
								Borehole Complete at 3.50m	

Boring Progress and Water Observations					Chiselling			Water Added		General Remarks
Date	Depth	Casing Dpt	Casing Dia	Water Dpt	From	To	Hours	From	To	Refused on weathered bedrock. No visual or olfactory indications of contamination.

All dimensions in metres	Contractor: Geotron	Method: Window Sampler	Logged By:	Approved By:
Scale 1:27	Plant: Competitor Dart	Hole Size: 150mm	EF	MS

LOGGING HAS BEEN CARRIED OUT IN ACCORDANCE WITH BS5930:2015+A2:2020

BOREHOLE LOG

BOREHOLE No **BH16**

Client: **2 Sisters Food Group**

Project No:	Date:	Ground Level:	Co-ordinates:
406.064893.00001	07/09/2023	7.19m	E246163 N375068

Project: **Llangefni SI**

Sheet 1 of 1

SAMPLES & TESTS				Water	STRATA				
Depth	Type No	Test Type	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION	Instrument Backfill
					7.11		0.08	Asphalt hardstanding.	
							(0.62)	MOT Type 1 Sub (grey silty sandy gravel). (MADE GROUND)	
		HS	0ppm						
0.60	ES				6.49		0.70		
							(0.60)	Reddish brown fine to coarse angular to subrounded silty sandy very clayey GRAVEL of mixed igneous and metamorphic lithologies, sandstone. Sand is of fine to coarse subrounded to rounded quartz. Frequent cobbles of mixed igneous and metamorphic lithologies. (GLACIAL TILL)	
1		HS	0ppm						
1.30 - 1.40	ES				5.89		1.30		
1.40 - 1.60	ES							Dark grey weathered bedrock of MUDSTONE. (CLWYD LIMESTONE GROUP)	
		HS	0ppm		5.59		1.60		
								Borehole Complete at 1.60m	
2									
3									

Boring Progress and Water Observations					Chiselling			Water Added		General Remarks
Date	Depth	Casing Dpt	Casing Dia	Water Dpt	From	To	Hours	From	To	Refused on weathered bedrock. No visual or olfactory indications of contamination.

All dimensions in metres	Contractor: Geotron	Method: Window Sampler	Logged By:	Approved By:
Scale 1:27	Plant: Competitor Dart	Hole Size: 150mm	EF	MS

LOGGING HAS BEEN CARRIED OUT IN ACCORDANCE WITH BS5930:2015+A2:2020

Appendix C Environmental Laboratory Analysis

Environmental Permit (EP) Surrender Site Investigation Report

LLANGEFNI MEAT PROCESSING FACILITY

2 Sisters Food Group
SLR Project No.: 406.064893.00001

19 October 2023

Element Materials Technology
Unit 3 Deeside Point
Zone 3
Deeside Industrial Park
Deeside
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SLR Consulting Ltd
Hermes House
Oxon Business Park
Shrewsbury
United Kingdom
SY3 5HJ

Attention :	Esteban Forero
Date :	14th September, 2023
Your reference :	406.064893.00001
Our reference :	Test Report 23/14767 Batch 1 Schedule A 23/14767 Batch 1 Schedule C 23/14767 Ba
Location :	Llangefni
Date samples received :	7th September, 2023
Status :	Final report
Issue :	1

Thirteen samples were received for analysis on 7th September, 2023 of which eleven were scheduled for analysis. Please find attached our Test Report which should be read with notes at the end of the report and should include all sections if reproduced. Interpretations and opinions are outside the scope of any accreditation, and all results relate only to samples supplied.
All analysis is carried out on as received samples and reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected.

The greenhouse gas emissions generated (in Carbon – Co2e) to obtain the results in this report are estimated as:

Scope 1&2 emissions - 29.901 kg of CO2

Scope 1&2&3 emissions - 70.664 kg of CO2

For further information on how these figures have been calculated please contact the undersigned.

Authorised By:

Paul Boden BSc
Senior Project Manager

Element Materials Technology

Client Name: SLR Consulting Ltd
Reference: 406.064893.00001
Location: Llangefni
Contact: Esteban Forero
EMT Job No: 23/14767

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

EMT Sample No.	1-4	5-8	13-16	17-20	21-24	25-28	29-32	37-40	41-44	45-48	LOD/LOR	Units	Method No.
Sample ID	BH13	BH13	BH8	BH8	BH14	BH14	BH15	BH15	BH1	BH1			
Depth	0.80-1.00	2.50-3.20	0.80-1.00	2.50-2.80	0.50-0.90	2.00-2.50	0.50-0.70	1.50-2.00	0.30-0.50	1.20-1.40			
COC No / misc													
Containers	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T			
Sample Date	04/09/2023	04/09/2023	05/09/2023	05/09/2023	05/09/2023	05/09/2023	05/09/2023	05/09/2023	05/09/2023	05/09/2023			
Sample Type	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clayey Sand	Clay			
Batch Number	1	1	1	1	1	1	1	1	1	1			
Date of Receipt	07/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023			
Arsenic #M	10	29	250	12	16	10	8.8	10	17	17	<0.5	mg/kg	TM30/PM15
Cadmium #M	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM30/PM15
Chromium #M	76	29	33	45	74	86	66	73	53	39	<0.5	mg/kg	TM30/PM15
Copper #M	21	16	25	26	31	22	23	23	16	22	<1	mg/kg	TM30/PM15
Lead #M	20	35	19	13	33	35	74	29	11	16	<5	mg/kg	TM30/PM15
Mercury #M	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	0.1	<0.1	<0.1	<0.1	mg/kg	TM30/PM15
Nickel #M	20	35	31	23	32	34	20	32	11	21	<0.7	mg/kg	TM30/PM15
Selenium #M	2	<1	<1	<1	1	2	1	2	<1	<1	<1	mg/kg	TM30/PM15
Zinc #M	53	17	20	30	80	100	84	99	51	17	<5	mg/kg	TM30/PM15
PAH MS													
Naphthalene #M	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	mg/kg	TM4/PM8
Acenaphthylene	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	mg/kg	TM4/PM8
Acenaphthene #M	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	mg/kg	TM4/PM8
Fluorene #M	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	mg/kg	TM4/PM8
Phenanthrene #M	<0.03	<0.03	<0.03	0.03	<0.03	<0.03	0.09	<0.03	<0.03	<0.03	<0.03	mg/kg	TM4/PM8
Anthracene #	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	mg/kg	TM4/PM8
Fluoranthene #M	0.04	<0.03	<0.03	<0.03	0.04	<0.03	0.14	<0.03	<0.03	<0.03	<0.03	mg/kg	TM4/PM8
Pyrene #	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.11	<0.03	<0.03	<0.03	<0.03	mg/kg	TM4/PM8
Benzo(a)anthracene #	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	0.12	<0.06	<0.06	<0.06	<0.06	mg/kg	TM4/PM8
Chrysene #M	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.09	<0.02	<0.02	<0.02	<0.02	mg/kg	TM4/PM8
Benzo(bk)fluoranthene #M	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	0.13	<0.07	<0.07	<0.07	<0.07	mg/kg	TM4/PM8
Benzo(a)pyrene #	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	mg/kg	TM4/PM8
Indeno(123cd)pyrene #M	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	mg/kg	TM4/PM8
Dibenzo(ah)anthracene #	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	mg/kg	TM4/PM8
Benzo(ghi)perylene #	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	mg/kg	TM4/PM8
PAH 16 Total	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	0.7	<0.6	<0.6	<0.6	<0.6	mg/kg	TM4/PM8
Benzo(b)fluoranthene	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.09	<0.05	<0.05	<0.05	<0.05	mg/kg	TM4/PM8
Benzo(k)fluoranthene	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.04	<0.02	<0.02	<0.02	<0.02	mg/kg	TM4/PM8
PAH Surrogate % Recovery	100	99	97	100	100	100	100	99	100	97	<0	%	TM4/PM8
Methyl Tertiary Butyl Ether #M	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	mg/kg	TM15/PM10
Benzene #M	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	mg/kg	TM15/PM10
Toluene #M	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	mg/kg	TM15/PM10
Ethylbenzene #M	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	mg/kg	TM15/PM10
m/p-Xylene #M	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	mg/kg	TM15/PM10
o-Xylene #M	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	mg/kg	TM15/PM10
Surrogate Recovery Toluene D8	95	85	92	94	94	87	86	84	98	91	<0	%	TM15/PM10
Surrogate Recovery 4-Bromofluorobenzene	91	70	83	90	89	82	77	77	97	85	<0	%	TM15/PM10

Please see attached notes for all abbreviations and acronyms

All solid results are expressed on a dry weight basis unless stated otherwise.

Element Materials Technology

Client Name: SLR Consulting Ltd
Reference: 406.064893.00001
Location: Llangefni
Contact: Esteban Forero
EMT Job No: 23/14767

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

EMT Sample No.	1-4	5-8	13-16	17-20	21-24	25-28	29-32	37-40	41-44	45-48	LOD/LOR	Units	Method No.
Sample ID	BH13	BH13	BH8	BH8	BH14	BH14	BH15	BH15	BH1	BH1			
Depth	0.80-1.00	2.50-3.20	0.80-1.00	2.50-2.80	0.50-0.90	2.00-2.50	0.50-0.70	1.50-2.00	0.30-0.50	1.20-1.40			
COC No / misc													
Containers	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T			
Sample Date	04/09/2023	04/09/2023	05/09/2023	05/09/2023	05/09/2023	05/09/2023	05/09/2023	05/09/2023	05/09/2023	05/09/2023			
Sample Type	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clayey Sand	Clay			
Batch Number	1	1	1	1	1	1	1	1	1	1			
Date of Receipt	07/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023			
TPH CWG													
Aliphatics													
>C5-C6 (HS_1D_AL) #M	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>C6-C8 (HS_1D_AL) #M	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>C8-C10 (HS_1D_AL)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>C10-C12 (EH_CU_1D_AL) #M	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	mg/kg	TM5/PM8/PM16
>C12-C16 (EH_CU_1D_AL) #M	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	mg/kg	TM5/PM8/PM16
>C16-C21 (EH_CU_1D_AL) #M	<7	10	<7	<7	<7	<7	<7	<7	<7	<7	<7	mg/kg	TM5/PM8/PM16
>C21-C35 (EH_CU_1D_AL) #M	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	mg/kg	TM5/PM8/PM16
Total aliphatics C5-35 (EH+HS_CU_1D_AL)	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	mg/kg	TM5/TM36/PM8/PM12/PM16
Aromatics													
>C5-EC7 (HS_1D_AR) #	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>EC7-EC8 (HS_1D_AR) #	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>EC8-EC10 (HS_1D_AR) #M	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>EC10-EC12 (EH_CU_1D_AR) #	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	mg/kg	TM5/PM8/PM16
>EC12-EC16 (EH_CU_1D_AR) #	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	mg/kg	TM5/PM8/PM16
>EC16-EC21 (EH_CU_1D_AR) #	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	mg/kg	TM5/PM8/PM16
>EC21-EC35 (EH_CU_1D_AR) #	<7	<7	<7	<7	<7	36	<7	77	<7	<7	<7	mg/kg	TM5/PM8/PM16
Total aromatics C5-35 (EH+HS_CU_1D_AR) #	<19	<19	<19	<19	<19	36	<19	77	<19	<19	<19	mg/kg	TM5/TM36/PM8/PM12/PM16
Total aliphatics and aromatics(C5-35) (EH+HS_CU_1D_Total)	<38	<38	<38	<38	<38	<38	<38	77	<38	<38	<38	mg/kg	TM5/TM36/PM8/PM12/PM16
Natural Moisture Content	15.6	15.3	12.7	10.0	15.8	37.3	11.3	75.4	5.9	10.8	<0.1	%	PM4/PM0
Hexavalent Chromium #	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	mg/kg	TM38/PM20
Sample Type	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clayey Sand	Clay		None	PM13/PM0
Sample Colour	Medium Brown	Medium Brown	Medium Brown	Medium Brown	Medium Brown	Medium Brown	Medium Brown	Medium Brown	Medium Brown	Medium Brown		None	PM13/PM0
Other Items	stones	stones	stones	stones	stones, vegetation	stones, vegetation	stones, vegetation	stones	stones	stones		None	PM13/PM0
PCB 28 #	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	mg/kg	TM17/PM8
PCB 52 #	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	mg/kg	TM17/PM8
PCB 101 #	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	mg/kg	TM17/PM8
PCB 118 #	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	mg/kg	TM17/PM8
PCB 138 #	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	mg/kg	TM17/PM8
PCB 153 #	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	mg/kg	TM17/PM8
PCB 180 #	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	mg/kg	TM17/PM8
Total 7 PCBs #	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	mg/kg	TM17/PM8
Total Organic Carbon #	0.71	0.51	0.39	0.19	0.81	2.0	0.48	7.1	<0.02	0.15	<0.02	%	TM21/PM24
pH #M	8.9	8.5	8.6	8.6	8.3	7.2	6.8	6.7	11	8.5	<0.01	pH units	TM73/PM11

Please see attached notes for all abbreviations and acronyms

All solid results are expressed on a dry weight basis unless stated otherwise.

Client Name: SLR Consulting Ltd
Reference: 406.064893.00001
Location: Llangefni
Contact: Esteban Forero
EMT Job No: 23/14767

VOC Report : **Solid**

EMT Sample No.	1-4	5-8	13-16	17-20	21-24	25-28	29-32	37-40	41-44	45-48	LOD/LOR	Units	Method No.
Sample ID	BH13	BH13	BH8	BH8	BH14	BH14	BH15	BH15	BH1	BH1			
Depth	0.80-1.00	2.50-3.20	0.80-1.00	2.50-2.80	0.50-0.90	2.00-2.50	0.50-0.70	1.50-2.00	0.30-0.50	1.20-1.40			
COC No / misc													
Containers	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T			
Sample Date	04/09/2023	04/09/2023	05/09/2023	05/09/2023	05/09/2023	05/09/2023	05/09/2023	05/09/2023	05/09/2023	05/09/2023			
Sample Type	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clayey Sand	Clay			
Batch Number	1	1	1	1	1	1	1	1	1	1			
Date of Receipt	07/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023			
VOC MS													
Surrogate Recovery Toluene D8	95	85	92	94	94	87	86	84	98	91	<0	%	TM15/PM10
Surrogate Recovery 4-Bromofluorobenzene	91	70	83	90	89	82	77	77	97	85	<0	%	TM15/PM10
Dichlorodifluoromethane	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	mg/kg	TM15/PM10
Methyl Tertiary Butyl Ether #M	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	mg/kg	TM15/PM10
Chloromethane #	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	mg/kg	TM15/PM10
Vinyl Chloride	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	mg/kg	TM15_A/PM10
Bromomethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	mg/kg	TM15/PM10
Chloroethane #M	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	mg/kg	TM15/PM10
Trichlorofluoromethane #M	<0.003	0.28	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	mg/kg	TM15/PM10
1,1-Dichloroethene (1,1 DCE) #M	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	mg/kg	TM15/PM10
Dichloromethane (DCM) #	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	mg/kg	TM15/PM10
trans-1-2-Dichloroethene #	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	mg/kg	TM15/PM10
1,1-Dichloroethane #M	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	mg/kg	TM15/PM10
cis-1-2-Dichloroethene #M	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	mg/kg	TM15/PM10
2,2-Dichloropropane	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	mg/kg	TM15/PM10
Bromochloromethane #M	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	mg/kg	TM15/PM10
Chloroform #M	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	mg/kg	TM15/PM10
1,1,1-Trichloroethane #M	<0.005	0.025	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	mg/kg	TM15/PM10
1,1-Dichloropropene #	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	mg/kg	TM15/PM10
Carbon tetrachloride #M	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	mg/kg	TM15/PM10
1,2-Dichloroethane #M	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	mg/kg	TM15/PM10
Benzene #M	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	mg/kg	TM15/PM10
Trichloroethene (TCE) #M	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	mg/kg	TM15/PM10
1,2-Dichloropropane #M	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	mg/kg	TM15/PM10
Dibromomethane #M	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	mg/kg	TM15/PM10
Bromodichloromethane #M	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	mg/kg	TM15/PM10
cis-1-3-Dichloropropene	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	mg/kg	TM15/PM10
Toluene #M	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	mg/kg	TM15/PM10
trans-1-3-Dichloropropene	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	mg/kg	TM15/PM10
1,1,2-Trichloroethane #M	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	mg/kg	TM15/PM10
Tetrachloroethene (PCE) #	0.007	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	mg/kg	TM15/PM10
1,3-Dichloropropane #M	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	mg/kg	TM15/PM10
Dibromochloromethane #M	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	mg/kg	TM15/PM10
1,2-Dibromoethane #	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	mg/kg	TM15/PM10
Chlorobenzene #M	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	mg/kg	TM15/PM10
1,1,1,2-Tetrachloroethane #M	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	mg/kg	TM15/PM10
Ethylbenzene #M	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	mg/kg	TM15/PM10
m/p-Xylene #M	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	mg/kg	TM15/PM10
o-Xylene #M	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	mg/kg	TM15/PM10
Styrene	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	mg/kg	TM15_A/PM10
Bromoform	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	mg/kg	TM15/PM10
Isopropylbenzene #	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	mg/kg	TM15/PM10
1,1,2,2-Tetrachloroethane #M	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	mg/kg	TM15/PM10
Bromobenzene	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	mg/kg	TM15/PM10
1,2,3-Trichloropropane #M	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	mg/kg	TM15/PM10
Propylbenzene #	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	mg/kg	TM15/PM10
2-Chlorotoluene	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	mg/kg	TM15/PM10
1,3,5-Trimethylbenzene #	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	mg/kg	TM15/PM10
4-Chlorotoluene	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	mg/kg	TM15/PM10
tert-Butylbenzene #	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	mg/kg	TM15/PM10
1,2,4-Trimethylbenzene #	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	mg/kg	TM15/PM10
sec-Butylbenzene #	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	mg/kg	TM15/PM10
4-Isopropyltoluene	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	mg/kg	TM15/PM10
1,3-Dichlorobenzene #M	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	mg/kg	TM15/PM10
1,4-Dichlorobenzene #	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	mg/kg	TM15/PM10
n-Butylbenzene	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	mg/kg	TM15/PM10
1,2-Dichlorobenzene #M	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	mg/kg	TM15/PM10
1,2-Dibromo-3-chloropropane	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	mg/kg	TM15/PM10
1,2,4-Trichlorobenzene	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	mg/kg	TM15/PM10
Hexachlorobutadiene	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	mg/kg	TM15/PM10
Naphthalene	<0.027	<0.027	<0.027	<0.027	<0.027	<0.027	<0.027	<0.027	<0.027	<0.027	<0.027	mg/kg	TM15/PM10
1,2,3-Trichlorobenzene	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	mg/kg	TM15/PM10

Please see attached notes for all abbreviations and acronyms

Please include all sections of this report if it is reproduced
All solid results are expressed on a dry weight basis unless stated otherwise.

Client Name: SLR Consulting Ltd
Reference: 406.064893.00001
Location: Llangefni
Contact: Esteban Forero

Note:

Asbestos Screen analysis is carried out in accordance with our documented in-house methods PM042 and TM065 and HSG 248 by Stereo and Polarised Light Microscopy using Dispersion Staining Techniques and is covered by our UKAS accreditation. Detailed Gravimetric Quantification and PCOM Fibre Analysis is carried out in accordance with our documented in-house methods PM042 and TM131 and HSG 248 using Stereo and Polarised Light Microscopy and Phase Contrast Optical Microscopy (PCOM). Asbestos sub-samples are retained for not less than 6 months from the date of analysis unless specifically requested.

The LOQ of the Asbestos Quantification is 0.001% dry fibre of dry mass of sample.

Where the sample is not taken by a Element Materials Technology consultant, Element Materials Technology cannot be responsible for inaccurate or unrepresentative sampling.

Where trace asbestos is reported the amount of asbestos will be <0.1%.

EMT Job No.	Batch	Sample ID	Depth	EMT Sample No.	Analyst Name	Date Of Analysis	Analysis	Result
23/14767	1	BH13	0.80-1.00	3	Catherine Coles	13/09/2023	**General Description (Bulk Analysis)**	brown soil,stone
					Catherine Coles	13/09/2023	**Asbestos Fibres**	NAD
					Catherine Coles	13/09/2023	**Asbestos ACM**	NAD
					Catherine Coles	13/09/2023	**Asbestos Type**	NAD
					Remigiusz Blichowski	13/09/2023	**Total ACM Gravimetric Quantification (% Asb)**	NDP (mass %)
					Remigiusz Blichowski	13/09/2023	**Total Detailed Gravimetric Quantification (% Asb)**	NDP (mass %)
					Remigiusz Blichowski	13/09/2023	**Total Gravimetric Quantification (ACM + Detailed) (% Asb)**	NDP (mass %)
					Remigiusz Blichowski	13/09/2023	**Asbestos PCOM Quantification (Fibres)**	NDP (mass %)
					Remigiusz Blichowski	13/09/2023	**Asbestos Gravimetric & PCOM Total**	NDP (mass %)
23/14767	1	BH8	0.20-0.50	11	Catherine Coles	13/09/2023	**General Description (Bulk Analysis)**	brown soil,stone
					Catherine Coles	13/09/2023	**Asbestos Fibres**	NAD
					Catherine Coles	13/09/2023	**Asbestos ACM**	NAD
					Catherine Coles	13/09/2023	**Asbestos Type**	NAD
					Remigiusz Blichowski	13/09/2023	**Total ACM Gravimetric Quantification (% Asb)**	NDP (mass %)
					Remigiusz Blichowski	13/09/2023	**Total Detailed Gravimetric Quantification (% Asb)**	NDP (mass %)
					Remigiusz Blichowski	13/09/2023	**Total Gravimetric Quantification (ACM + Detailed) (% Asb)**	NDP (mass %)
					Remigiusz Blichowski	13/09/2023	**Asbestos PCOM Quantification (Fibres)**	NDP (mass %)
					Remigiusz Blichowski	13/09/2023	**Asbestos Gravimetric & PCOM Total**	NDP (mass %)
23/14767	1	BH1	0.30-0.50	43	Anthony Carman	13/09/2023	**General Description (Bulk Analysis)**	Brown Soil/Stones
					Anthony Carman	13/09/2023	**Asbestos Fibres**	NAD
					Anthony Carman	13/09/2023	**Asbestos ACM**	NAD
					Anthony Carman	13/09/2023	**Asbestos Type**	NAD
					Simon Gomery	13/09/2023	**Total ACM Gravimetric Quantification (% Asb)**	NDP (mass %)
					Simon Gomery	13/09/2023	**Asbestos PCOM Quantification (Fibres)**	NDP (mass %)
					Simon Gomery	13/09/2023	**Asbestos Gravimetric & PCOM Total**	NDP (mass %)

Client Name: SLR Consulting Ltd

Reference: 406.064893.00001

Location: Llangefni

Contact: Esteban Forero

Matrix : Solid

EMT Job No.	Batch	Sample ID	Depth	EMT Sample No.	Method No.	NDP Reason
23/14767	1	BH13	0.80-1.00	1-4	TM131/PM42	Not necessary to carry out analysis
23/14767	1	BH8	0.20-0.50	9-12	TM131/PM42	Not necessary to carry out analysis
23/14767	1	BH1	0.30-0.50	41-44	TM131/PM42	Not necessary to carry out analysis

Client Name: SLR Consulting Ltd
Reference: 406.064893.00001
Location: Llangefni
Contact: Esteban Forero

EMT Job No.	Batch	Sample ID	Depth	EMT Sample No.	Analysis	Reason
No deviating sample report results for job 23/14767						

Please note that only samples that are deviating are mentioned in this report. If no samples are listed it is because none were deviating.
Only analyses which are accredited are recorded as deviating if set criteria are not met.

NOTES TO ACCOMPANY ALL SCHEDULES AND REPORTS

EMT Job No.: 23/14767

SOILS and ASH

Please note we are only MCERTS accredited (UK soils only) for sand, loam and clay and any other matrix is outside our scope of accreditation.

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation has been performed on clay, sand and loam, only samples that are predominantly these matrices, or combinations of them will be within our MCERTS scope. If samples are not one of a combination of the above matrices they will not be marked as MCERTS accredited.

It is assumed that you have taken representative samples on site and require analysis on a representative subsample. Stones will generally be included unless we are requested to remove them.

All samples will be discarded one month after the date of reporting, unless we are instructed to the contrary. Asbestos samples are retained for 6 months.

If you have not already done so, please send us a purchase order if this is required by your company.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

All analysis is reported on a dry weight basis unless stated otherwise. Limits of detection for analyses carried out on as received samples are not moisture content corrected. Results are not surrogate corrected. Samples are dried at 35°C ±5°C unless otherwise stated. Moisture content for CEN Leachate tests are dried at 105°C ±5°C. Ash samples are dried at 37°C ±5°C.

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

Where a CEN 10:1 ZERO Headspace VOC test has been carried out, a 10:1 ratio of water to wet (as received) soil has been used.

% Asbestos in Asbestos Containing Materials (ACMs) is determined by reference to HSG 264 The Survey Guide - Appendix 2 : ACMs in buildings listed in order of ease of fibre release.

Sufficient amount of sample must be received to carry out the testing specified. Where an insufficient amount of sample has been received the testing may not meet the requirements of our accredited methods, as such accreditation may be removed.

Negative Neutralization Potential (NP) values are obtained when the volume of NaOH (0.1N) titrated (pH 8.3) is greater than the volume of HCl (1N) to reduce the pH of the sample to 2.0 - 2.5. Any negative NP values are corrected to 0.

The calculation of Pyrite content assumes that all oxidisable sulphides present in the sample are pyrite. This may not be the case. The calculation may be an overesitimate when other sulphides such as Barite (Barium Sulphate) are present.

WATERS

Please note we are not a UK Drinking Water Inspectorate (DWI) Approved Laboratory .

ISO17025 accreditation applies to surface water and groundwater and usually one other matrix which is analysis specific, any other liquids are outside our scope of accreditation.

As surface waters require different sample preparation to groundwaters the laboratory must be informed of the water type when submitting samples.

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

STACK EMISSIONS

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation for Dioxins and Furans and Dioxin like PCBs has been performed on XAD-2 Resin, only samples which use this resin will be within our MCERTS scope.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

DEVIATING SAMPLES

All samples should be submitted to the laboratory in suitable containers with sufficient ice packs to sustain an appropriate temperature for the requested analysis. The temperature of sample receipt is recorded on the confirmation schedules in order that the client can make an informed decision as to whether testing should still be undertaken.

SURROGATES

Surrogate compounds are added during the preparation process to monitor recovery of analytes. However low recovery in soils is often due to peat, clay or other organic rich matrices. For waters this can be due to oxidants, surfactants, organic rich sediments or remediation fluids. Acceptable limits for most organic methods are 70 - 130% and for VOCs are 50 - 150%. When surrogate recoveries are outside the performance criteria but the associated AQC passes this is assumed to be due to matrix effect. Results are not surrogate corrected.

DILUTIONS

A dilution suffix indicates a dilution has been performed and the reported result takes this into account. No further calculation is required.

BLANKS

Where analytes have been found in the blank, the sample will be treated in accordance with our laboratory procedure for dealing with contaminated blanks.

NOTE

Data is only reported if the laboratory is confident that the data is a true reflection of the samples analysed. Data is only reported as accredited when all the requirements of our Quality System have been met. In certain circumstances where all the requirements of the Quality System have not been met, for instance if the associated AQC has failed, the reason is fully investigated and documented. The sample data is then evaluated alongside the other quality control checks performed during analysis to determine its suitability. Following this evaluation, provided the sample results have not been effected, the data is reported but accreditation is removed. It is a requirement of our Accreditation Body for data not reported as accredited to be considered indicative only, but this does not mean the data is not valid.
Where possible, and if requested, samples will be re-extracted and a revised report issued with accredited results. Please do not hesitate to contact the laboratory if further details are required of the circumstances which have led to the removal of accreditation.
Laboratory records are kept for a period of no less than 6 years.

REPORTS FROM THE SOUTH AFRICA LABORATORY

Any method number not prefixed with SA has been undertaken in our UK laboratory unless reported as subcontracted.

Measurement Uncertainty

Measurement uncertainty defines the range of values that could reasonably be attributed to the measured quantity. This range of values has not been included within the reported results. Uncertainty expressed as a percentage can be provided upon request.

Customer Provided Information

Sample ID and depth is information provided by the customer.

ABBREVIATIONS and ACRONYMS USED

#	ISO17025 (UKAS Ref No. 4225) accredited - UK.
SA	ISO17025 (SANAS Ref No.T0729) accredited - South Africa
B	Indicates analyte found in associated method blank.
DR	Dilution required.
M	MCERTS accredited.
NA	Not applicable
NAD	No Asbestos Detected.
ND	None Detected (usually refers to VOC and/SVOC TICs).
NDP	No Determination Possible
SS	Calibrated against a single substance
SV	Surrogate recovery outside performance criteria. This may be due to a matrix effect.
W	Results expressed on as received basis.
+	AQC failure, accreditation has been removed from this result, if appropriate, see 'Note' on previous page.
>>	Results above quantitative calibration range. The result should be considered the minimum value and is indicative only. The actual result could be significantly higher.
*	Analysis subcontracted to an Element Materials Technology approved laboratory.
AD	Samples are dried at 35°C ±5°C
CO	Suspected carry over
LOD/LOR	Limit of Detection (Limit of Reporting) in line with ISO 17025 and MCERTS
ME	Matrix Effect
NFD	No Fibres Detected
BS	AQC Sample
LB	Blank Sample
N	Client Sample
TB	Trip Blank Sample
OC	Outside Calibration Range

HWOL ACRONYMS AND OPERATORS USED

HS	Headspace Analysis.
EH	Extractable Hydrocarbons - i.e. everything extracted by the solvent.
CU	Clean-up - e.g. by florisil, silica gel.
1D	GC - Single coil gas chromatography.
Total	Aliphatics & Aromatics.
AL	Aliphatics only.
AR	Aromatics only.
2D	GC-GC - Double coil gas chromatography.
#1	EH_Total but with humics mathematically subtracted
#2	EU_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
MS	Mass Spectrometry.

EMT Job No: 23/14767

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/SANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
PM4	Gravimetric measurement of Natural Moisture Content and % Moisture Content at either 35°C or 105°C. Calculation based on ISO 11465:1993(E) and BS1377-2:1990.	PM0	No preparation is required.			AR	
TM4	Modified USEPA 8270D v5:2014 method for the solvent extraction and determination of PAHs by GC-MS.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.			AR	Yes
TM4	Modified USEPA 8270D v5:2014 method for the solvent extraction and determination of PAHs by GC-MS.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.	Yes		AR	Yes
TM4	Modified USEPA 8270D v5:2014 method for the solvent extraction and determination of PAHs by GC-MS.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.	Yes	Yes	AR	Yes
TM5	Modified 8015B v2:1996 method for the determination of solvent Extractable Petroleum Hydrocarbons (EPH) within the range C8-C40 by GCFID. For waters the solvent extracts dissolved phase plus a sheen if present.	PM8/PM16	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required/Fractionation into aliphatic and aromatic fractions using a Rapid Trace SPE.	Yes		AR	Yes
TM5	Modified 8015B v2:1996 method for the determination of solvent Extractable Petroleum Hydrocarbons (EPH) within the range C8-C40 by GCFID. For waters the solvent extracts dissolved phase plus a sheen if present.	PM8/PM16	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required/Fractionation into aliphatic and aromatic fractions using a Rapid Trace SPE.	Yes	Yes	AR	Yes
TM5/TM36	please refer to TM5 and TM36 for method details	PM8/PM12/PM16	please refer to PM8/PM16 and PM12 for method details			AR	Yes
TM5/TM36	please refer to TM5 and TM36 for method details	PM8/PM12/PM16	please refer to PM8/PM16 and PM12 for method details	Yes		AR	Yes
PM13	A visual examination of the solid sample is carried out to ascertain sample make up, colour and any other inclusions. This is not a geotechnical description.	PM0	No preparation is required.			AR	No
TM15	Modified USEPA 8260B v2:1996. Quantitative Determination of Volatile Organic Compounds (VOCs) by Headspace GC-MS.	PM10	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.			AR	Yes

EMT Job No: 23/14767

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/SANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
TM15	Modified USEPA 8260B v2:1996. Quantitative Determination of Volatile Organic Compounds (VOCs) by Headspace GC-MS.	PM10	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.	Yes		AR	Yes
TM15	Modified USEPA 8260B v2:1996. Quantitative Determination of Volatile Organic Compounds (VOCs) by Headspace GC-MS.	PM10	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.	Yes	Yes	AR	Yes
TM17	Modified US EPA method 8270D v5:2014. Determination of specific Polychlorinated Biphenyl congeners by GC-MS.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.	Yes		AR	Yes
TM21	Modified BS 7755-3:1995, ISO10694:1995 Determination of Total Organic Carbon or Total Carbon by combustion in an Eltra TOC furnace/analyser in the presence of oxygen. The CO2 generated is quantified using infra-red detection. Organic Matter (SOM) calculated as per EA MCERTS Chemical Testing of Soil, March 2012 v4.	PM24	Preparation of Soil and Marine Sediment Samples for Total Organic Carbon.	Yes		AD	Yes
TM30	Determination of Trace Metals by ICP-OES (Inductively Coupled Plasma – Optical Emission Spectrometry): WATERS by Modified USEPA Method 200.7, Rev. 4.4, 1994; Modified EPA Method 6010B, Rev.2, Dec 1996; Modified BS EN ISO 11885:2009: SOILS by Modified USEP 6010B, Rev.2, Dec.1996; Modified EPA Method 3050B, Rev.2, Dec.1996	PM15	Acid digestion of dried and ground solid samples using Aqua Regia refluxed at 112.5 °C. Samples containing asbestos are not dried and ground.	Yes	Yes	AD	Yes
TM36	Modified US EPA method 8015B v2:1996. Determination of Gasoline Range Organics (GRO) in the carbon chain range of C4-12 by headspace GC-FID. MTBE by GCFID co-elutes with 3-methylpentane if present and therefore can give a false positive. Positive MTBE results will be re-run using GC-MS to double check, when requested.	PM12	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.			AR	Yes
TM36	Modified US EPA method 8015B v2:1996. Determination of Gasoline Range Organics (GRO) in the carbon chain range of C4-12 by headspace GC-FID. MTBE by GCFID co-elutes with 3-methylpentane if present and therefore can give a false positive. Positive MTBE results will be re-run using GC-MS to double check, when requested.	PM12	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.	Yes		AR	Yes
TM36	Modified US EPA method 8015B v2:1996. Determination of Gasoline Range Organics (GRO) in the carbon chain range of C4-12 by headspace GC-FID. MTBE by GCFID co-elutes with 3-methylpentane if present and therefore can give a false positive. Positive MTBE results will be re-run using GC-MS to double check, when requested.	PM12	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.	Yes	Yes	AR	Yes
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) – All anions comparable to BS ISO 15923-1: 2013l	PM20	Extraction of dried and ground or as received samples with deionised water in a 2:1 water to solid ratio using a reciprocal shaker for all analytes except hexavalent chromium. Extraction of as received sample using 10:1 ratio of 0.2M sodium hydroxide to soil for hexavalent chromium using a reciprocal shaker.	Yes		AR	Yes
TM65	Asbestos Bulk Identification method based on HSG 248 Second edition (2021)	PM42	Modified SCA Blue Book V.12 draft 2017 and WM3 1st Edition v1.1:2018. Solid samples undergo a thorough visual inspection for asbestos fibres prior to asbestos identification using TM065.	Yes		AR	

EMT Job No: 23/14767

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/SANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
TM73	Modified US EPA methods 150.1 (1982) and 9045D Rev. 4 - 2004) and BS1377-3:1990. Determination of pH by Metrohm automated probe analyser.	PM11	Extraction of as received solid samples using one part solid to 2.5 parts deionised water.	Yes	Yes	AR	No
TM131	Quantification of Asbestos Fibres and ACM based on HSG 248 Second edition:2021, HSG 264 Second edition:2012, HSE Contract Research Report No.83/1996, MDHS 87:1998, WM3 1st Edition v1.1:2018	PM42	Modified SCA Blue Book V.12 draft 2017 and WM3 1st Edition v1.1:2018. Solid samples undergo a thorough visual inspection for asbestos fibres prior to asbestos identification using TM065.	Yes		AR	Yes
TM15_A	Modified USEPA 8260B v2:1996. Quantitative Determination of Volatile Organic Compounds, Vinyl Chloride & Styrene by Headspace GC-MS.	PM10	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.			AR	Yes

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Attention :	Esteban Forero
Date :	22nd September, 2023
Your reference :	406.064893.00001
Our reference :	Test Report 23/14767 Batch 1 Schedule B
Location :	Llangefni
Date samples received :	7th September, 2023
Status :	Final Report
Issue :	1

Thirteen samples were received for analysis on 7th September, 2023 of which two were scheduled for analysis. Please find attached our Test Report which should be read with notes at the end of the report and should include all sections if reproduced. Interpretations and opinions are outside the scope of any accreditation, and all results relate only to samples supplied.
All analysis is carried out on as received samples and reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected.

The greenhouse gas emissions generated (in Carbon – Co2e) to obtain the results in this report are estimated as:

Scope 1&2 emissions - 1.882 kg of CO2

Scope 1&2&3 emissions - 4.449 kg of CO2

Authorised By:

Paul Boden BSc
Senior Project Manager

Element Materials Technology

Client Name: SLR Consulting Ltd
Reference: 406.064893.00001
Location: Llangefni
Contact: Esteban Forero
EMT Job No: 23/14767

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

EMT Sample No.	25-28	45-48										
Sample ID	BH14	BH1										
Depth	2.00-2.50	1.20-1.40										
COC No / misc												
Containers	V J T	V J T										
Sample Date	05/09/2023	05/09/2023										
Sample Type	Clay	Clay										
Batch Number	1	1										
Date of Receipt	07/09/2023	07/09/2023										

Please see attached notes for all abbreviations and acronyms

											LOD/LOR	Units	Method No.
% Passing 75mm	100	100									<0	%	TM202/PM0
% Passing 63mm	100	100									<0	%	TM202/PM0
% Passing 50mm	100	100									<0	%	TM202/PM0
% Passing 37.5mm	100	100									<0	%	TM202/PM0
% Passing 28mm	100	100									<0	%	TM202/PM0
% Passing 20mm	100	100									<0	%	TM202/PM0
% Passing 14mm	89	94									<0	%	TM202/PM0
% Passing 10mm	75	88									<0	%	TM202/PM0
% Passing 6.3mm	68	80									<0	%	TM202/PM0
% Passing 5mm	63	78									<0	%	TM202/PM0
% Passing 3.35mm	58	69									<0	%	TM202/PM0
% Passing 2mm	52	61									<0	%	TM202/PM0
% Passing 1.18mm	47	54									<0	%	TM202/PM0
% Passing 600um	42	47									<0	%	TM202/PM0
% Passing 425um	40	44									<0	%	TM202/PM0
% Passing 300um	38	41									<0	%	TM202/PM0
% Passing 212um	36	38									<0	%	TM202/PM0
% Passing 150um	34	34									<0	%	TM202/PM0
% Passing 63um	28	23									<0	%	TM202/PM0
% Passing <63um to 20um	17	17									<0	%	TM202/PM0
% Passing <20um to 6um	13	13									<0	%	TM202/PM0
% Passing <6um to 2um	7	8									<0	%	TM202/PM0
% Passing <2um	<0	0									<0	%	TM202/PM0
Cobbles (>75mm to 63mm)	0.0	0.0									<0.0	%	TM202/PM0
Gravel (<63mm to 2mm)	47.6	38.6									<0.0	%	TM202/PM0
Sand (<2mm to 63um)	24.0	38.8									<0.0	%	TM202/PM0
Silt (<63um to 2um)	21.6	14.5									<0.0	%	TM202/PM0
Clay (<2um)	6.8	8.1									<0.0	%	TM202/PM0

Element Materials Technology

Notification of Deviating Samples

Client Name: SLR Consulting Ltd
Reference: 406.064893.00001
Location: Llangefni
Contact: Esteban Forero

EMT Job No.	Batch	Sample ID	Depth	EMT Sample No.	Analysis	Reason
No deviating sample report results for job 23/14767						

Please note that only samples that are deviating are mentioned in this report. If no samples are listed it is because none were deviating. Only analyses which are accredited are recorded as deviating if set criteria are not met.
It is a requirement under ISO 17025 that we inform clients if samples are deviating i.e. outside what is expected. A deviating sample indicates that the sample 'may' be compromised but not necessarily will be compromised. The result is still accredited and our analytical reports will still show accreditation on the relevant analytes.

NOTES TO ACCOMPANY ALL SCHEDULES AND REPORTS

EMT Job No.: 23/14767

SOILS and ASH

Please note we are only MCERTS accredited (UK soils only) for sand, loam and clay and any other matrix is outside our scope of accreditation.

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation has been performed on clay, sand and loam, only samples that are predominantly these matrices, or combinations of them will be within our MCERTS scope. If samples are not one of a combination of the above matrices they will not be marked as MCERTS accredited.

It is assumed that you have taken representative samples on site and require analysis on a representative subsample. Stones will generally be included unless we are requested to remove them.

All samples will be discarded one month after the date of reporting, unless we are instructed to the contrary. Asbestos samples are retained for 6 months.

If you have not already done so, please send us a purchase order if this is required by your company.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

All analysis is reported on a dry weight basis unless stated otherwise. Limits of detection for analyses carried out on as received samples are not moisture content corrected. Results are not surrogate corrected. Samples are dried at 35°C ±5°C unless otherwise stated. Moisture content for CEN Leachate tests are dried at 105°C ±5°C. Ash samples are dried at 37°C ±5°C.

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

Where a CEN 10:1 ZERO Headspace VOC test has been carried out, a 10:1 ratio of water to wet (as received) soil has been used.

% Asbestos in Asbestos Containing Materials (ACMs) is determined by reference to HSG 264 The Survey Guide - Appendix 2 : ACMs in buildings listed in order of ease of fibre release.

Sufficient amount of sample must be received to carry out the testing specified. Where an insufficient amount of sample has been received the testing may not meet the requirements of our accredited methods, as such accreditation may be removed.

Negative Neutralization Potential (NP) values are obtained when the volume of NaOH (0.1N) titrated (pH 8.3) is greater than the volume of HCl (1N) to reduce the pH of the sample to 2.0 - 2.5. Any negative NP values are corrected to 0.

The calculation of Pyrite content assumes that all oxidisable sulphides present in the sample are pyrite. This may not be the case. The calculation may be an overesitimate when other sulphides such as Barite (Barium Sulphate) are present.

WATERS

Please note we are not a UK Drinking Water Inspectorate (DWI) Approved Laboratory .

ISO17025 accreditation applies to surface water and groundwater and usually one other matrix which is analysis specific, any other liquids are outside our scope of accreditation.

As surface waters require different sample preparation to groundwaters the laboratory must be informed of the water type when submitting samples.

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

STACK EMISSIONS

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation for Dioxins and Furans and Dioxin like PCBs has been performed on XAD-2 Resin, only samples which use this resin will be within our MCERTS scope.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

DEVIATING SAMPLES

All samples should be submitted to the laboratory in suitable containers with sufficient ice packs to sustain an appropriate temperature for the requested analysis. The temperature of sample receipt is recorded on the confirmation schedules in order that the client can make an informed decision as to whether testing should still be undertaken.

SURROGATES

Surrogate compounds are added during the preparation process to monitor recovery of analytes. However low recovery in soils is often due to peat, clay or other organic rich matrices. For waters this can be due to oxidants, surfactants, organic rich sediments or remediation fluids. Acceptable limits for most organic methods are 70 - 130% and for VOCs are 50 - 150%. When surrogate recoveries are outside the performance criteria but the associated AQC passes this is assumed to be due to matrix effect. Results are not surrogate corrected.

DILUTIONS

A dilution suffix indicates a dilution has been performed and the reported result takes this into account. No further calculation is required.

BLANKS

Where analytes have been found in the blank, the sample will be treated in accordance with our laboratory procedure for dealing with contaminated blanks.

NOTE

Data is only reported if the laboratory is confident that the data is a true reflection of the samples analysed. Data is only reported as accredited when all the requirements of our Quality System have been met. In certain circumstances where all the requirements of the Quality System have not been met, for instance if the associated AQC has failed, the reason is fully investigated and documented. The sample data is then evaluated alongside the other quality control checks performed during analysis to determine its suitability. Following this evaluation, provided the sample results have not been effected, the data is reported but accreditation is removed. It is a requirement of our Accreditation Body for data not reported as accredited to be considered indicative only, but this does not mean the data is not valid.
Where possible, and if requested, samples will be re-extracted and a revised report issued with accredited results. Please do not hesitate to contact the laboratory if further details are required of the circumstances which have led to the removal of accreditation.
Laboratory records are kept for a period of no less than 6 years.

REPORTS FROM THE SOUTH AFRICA LABORATORY

Any method number not prefixed with SA has been undertaken in our UK laboratory unless reported as subcontracted.

Measurement Uncertainty

Measurement uncertainty defines the range of values that could reasonably be attributed to the measured quantity. This range of values has not been included within the reported results. Uncertainty expressed as a percentage can be provided upon request.

Customer Provided Information

Sample ID and depth is information provided by the customer.

ABBREVIATIONS and ACRONYMS USED

#	ISO17025 (UKAS Ref No. 4225) accredited - UK.
SA	ISO17025 (SANAS Ref No.T0729) accredited - South Africa
B	Indicates analyte found in associated method blank.
DR	Dilution required.
M	MCERTS accredited.
NA	Not applicable
NAD	No Asbestos Detected.
ND	None Detected (usually refers to VOC and/SVOC TICs).
NDP	No Determination Possible
SS	Calibrated against a single substance
SV	Surrogate recovery outside performance criteria. This may be due to a matrix effect.
W	Results expressed on as received basis.
+	AQC failure, accreditation has been removed from this result, if appropriate, see 'Note' on previous page.
>>	Results above quantitative calibration range. The result should be considered the minimum value and is indicative only. The actual result could be significantly higher.
*	Analysis subcontracted to an Element Materials Technology approved laboratory.
AD	Samples are dried at 35°C ±5°C
CO	Suspected carry over
LOD/LOR	Limit of Detection (Limit of Reporting) in line with ISO 17025 and MCERTS
ME	Matrix Effect
NFD	No Fibres Detected
BS	AQC Sample
LB	Blank Sample
N	Client Sample
TB	Trip Blank Sample
OC	Outside Calibration Range

HWOL ACRONYMS AND OPERATORS USED

HS	Headspace Analysis.
EH	Extractable Hydrocarbons - i.e. everything extracted by the solvent.
CU	Clean-up - e.g. by florisil, silica gel.
1D	GC - Single coil gas chromatography.
Total	Aliphatics & Aromatics.
AL	Aliphatics only.
AR	Aromatics only.
2D	GC-GC - Double coil gas chromatography.
#1	EH_Total but with humics mathematically subtracted
#2	EU_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
MS	Mass Spectrometry.

EMT Job No: 23/14767

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/SANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
TM202	Particle Size Distribution (PSD) based on ISO 11277 3rd Ed 2020-04 carried out by sieving for >63um fractions and pipette sedimentation for <63um fractions. Assumed particle density 2.65Mg/m3.	PM0	No preparation is required.			AD	Yes

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Attention :	Esteban Forero
Date :	14th September, 2023
Your reference :	406.064893.00001
Our reference :	Test Report 23/15028 Batch 1 Schedule A 23/15028 Batch 1 Schedule D
Location :	Llangefni
Date samples received :	12th September, 2023
Status :	Final Report
Issue :	1

Thirty five samples were received for analysis on 12th September, 2023 of which twenty six were scheduled for analysis. Please find attached our Test Report which should be read with notes at the end of the report and should include all sections if reproduced. Interpretations and opinions are outside the scope of any accreditation, and all results relate only to samples supplied.
All analysis is carried out on as received samples and reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected.

The greenhouse gas emissions generated (in Carbon – Co2e) to obtain the results in this report are estimated as:

Scope 1&2 emissions - 71.966 kg of CO2

Scope 1&2&3 emissions - 170.073 kg of CO2

For further information on how these figures have been calculated please contact the undersigned.

Authorised By:

Simon Gomery BSc
Project Manager

Client Name: SLR Consulting Ltd
Reference: 406.064893.00001
Location: Llangefni
Contact: Esteban Forero
EMT Job No: 23/15028

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

EMT Sample No.	1-4	5-8	13-16	17-20	25-28	29-32	33-36	37-40	41-44	48-50	LOD/LOR	Units	Method No.
Sample ID	BH10	BH10	BH11	BH11	BH2	BH2	BH3	BH3	BH3	BH3			
Depth	0.50-0.70	1.30-1.50	0.60-0.80	1.20-1.40	0.60-0.80	1.40-1.60	0.50	1.00	1.50	2.00			
COC No / misc													
Containers	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T			
Sample Date	06/09/2023	06/09/2023	06/09/2023	06/09/2023	06/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023			
Sample Type	Clayey Sand	Clay	Clay	Clayey Sand	Clayey Sand	Clayey Sand	Clay	Clayey Sand	Clayey Sand	Clay			
Batch Number	1	1	1	1	1	1	1	1	1	1			
Date of Receipt	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023			
Arsenic #M	3.1	11	6.2	9.8	1.3	26	3.3	5.7	-	-	<0.5	mg/kg	TM30/PM15
Cadmium #M	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	mg/kg	TM30/PM15
Chromium #M	70	72	79	75	65	73	61	77	-	-	<0.5	mg/kg	TM30/PM15
Copper #M	19	39	31	41	15	37	18	33	-	-	<1	mg/kg	TM30/PM15
Lead #M	10	14	10	18	14	14	9	11	-	-	<5	mg/kg	TM30/PM15
Mercury #M	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	-	-	<0.1	mg/kg	TM30/PM15
Nickel #M	17	31	34	36	5.6	21	11	22	-	-	<0.7	mg/kg	TM30/PM15
Selenium #M	<1	<1	1	<1	<1	<1	<1	<1	-	-	<1	mg/kg	TM30/PM15
Total Sulphate as SO4 #M	-	-	-	-	-	-	-	-	-	-	<50	mg/kg	TM50/PM29
Zinc #M	67	65	66	67	33	42	57	48	-	-	<5	mg/kg	TM30/PM15
PAH MS													
Naphthalene #M	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	1.7	-	-	<0.04	mg/kg	TM4/PM8
Acenaphthylene	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	-	-	<0.03	mg/kg	TM4/PM8
Acenaphthene #M	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	<0.05	mg/kg	TM4/PM8
Fluorene #M	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.62	-	-	<0.04	mg/kg	TM4/PM8
Phenanthrene #M	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	1.0	-	-	<0.03	mg/kg	TM4/PM8
Anthracene #	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	-	-	<0.04	mg/kg	TM4/PM8
Fluoranthene #M	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.24	<0.03	-	-	<0.03	mg/kg	TM4/PM8
Pyrene #	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.33	0.23	-	-	<0.03	mg/kg	TM4/PM8
Benzo(a)anthracene #	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	0.17	<0.06	-	-	<0.06	mg/kg	TM4/PM8
Chrysene #M	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.16	0.04	-	-	<0.02	mg/kg	TM4/PM8
Benzo(bk)fluoranthene #M	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	0.31	<0.07	-	-	<0.07	mg/kg	TM4/PM8
Benzo(a)pyrene #	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.20	<0.04	-	-	<0.04	mg/kg	TM4/PM8
Indeno(123cd)pyrene #M	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.12	<0.04	-	-	<0.04	mg/kg	TM4/PM8
Dibenzo(ah)anthracene #	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	-	-	<0.04	mg/kg	TM4/PM8
Benzo(ghi)perylene #	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.12	<0.04	-	-	<0.04	mg/kg	TM4/PM8
Coronene	-	-	-	-	-	-	-	-	-	-	<0.04	mg/kg	TM4/PM8
PAH 16 Total	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	1.7	3.6	-	-	<0.6	mg/kg	TM4/PM8
Benzo(b)fluoranthene	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.22	<0.05	-	-	<0.05	mg/kg	TM4/PM8
Benzo(k)fluoranthene	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.09	<0.02	-	-	<0.02	mg/kg	TM4/PM8
PAH Surrogate % Recovery	100	98	99	100	100	100	100	110	-	-	<0	%	TM4/PM8
Methyl Tertiary Butyl Ether #M	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	mg/kg	TM15/PM10
Benzene #M	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	mg/kg	TM15/PM10
Toluene #M	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.009	<0.003	mg/kg	TM15/PM10
Ethylbenzene #M	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.15	0.12	0.008	<0.003	mg/kg	TM15/PM10
m/p-Xylene #M	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.17	0.084	0.011	<0.004	mg/kg	TM15/PM10
o-Xylene #M	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.15	0.008	<0.004	<0.004	mg/kg	TM15/PM10
Surrogate Recovery Toluene D8	98	98	98	99	98	98	110	71	86	69	<0	%	TM15/PM10
Surrogate Recovery 4-Bromofluorobenzene	100	100	100	99	99	99	100	65	75	59	<0	%	TM15/PM10
EPH (C8-C40) (EH_1D_Total) #M	-	-	-	-	-	-	-	-	-	-	<30	mg/kg	TM5/PM8

Please see attached notes for all abbreviations and acronyms

Client Name: SLR Consulting Ltd
Reference: 406.064893.00001
Location: Llangefni
Contact: Esteban Forero
EMT Job No: 23/15028

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

EMT Sample No.	1-4	5-8	13-16	17-20	25-28	29-32	33-36	37-40	41-44	48-50	LOD/LOR	Units	Method No.
Sample ID	BH10	BH10	BH11	BH11	BH2	BH2	BH3	BH3	BH3	BH3			
Depth	0.50-0.70	1.30-1.50	0.60-0.80	1.20-1.40	0.60-0.80	1.40-1.60	0.50	1.00	1.50	2.00			
COC No / misc													
Containers	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T			
Sample Date	06/09/2023	06/09/2023	06/09/2023	06/09/2023	06/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023			
Sample Type	Clayey Sand	Clay	Clay	Clayey Sand	Clayey Sand	Clayey Sand	Clay	Clayey Sand	Clayey Sand	Clay			
Batch Number	1	1	1	1	1	1	1	1	1	1			
Date of Receipt	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023			
TPH CWG													
Aliphatics													
>C5-C6 (HS_1D_AL) #M	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1 SV	<0.1 SV	<0.1	mg/kg	TM36/PM12
>C6-C8 (HS_1D_AL) #M	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.1	2.0 SV	<0.1 SV	<0.1	mg/kg	TM36/PM12
>C8-C10 (HS_1D_AL)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	26	34 SV	<0.1 SV	<0.1	mg/kg	TM36/PM12
>C10-C12 (EH_CU_1D_AL) #M	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	180	60	<0.2	<0.2	mg/kg	TM5/PM8/PM16
>C12-C16 (EH_CU_1D_AL) #M	<4	<4	<4	<4	<4	<4	5	990	290	<4	<4	mg/kg	TM5/PM8/PM16
>C16-C21 (EH_CU_1D_AL) #M	10	<7	<7	<7	<7	<7	100	2100	600	10	<7	mg/kg	TM5/PM8/PM16
>C21-C35 (EH_CU_1D_AL) #M	41	<7	<7	<7	<7	<7	48	570	200	9	<7	mg/kg	TM5/PM8/PM16
Total aliphatics C5-35 (EH+HS_CU_1D_AL)	51	<19	<19	<19	<19	<19	153	3867	1186	19	<19	mg/kg	TM5/TM36/PM8/PM12/PM16
Aromatics													
>C5-EC7 (HS_1D_AR) #	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1 SV	<0.1 SV	<0.1	mg/kg	TM36/PM12
>EC7-EC8 (HS_1D_AR) #	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1 SV	<0.1 SV	<0.1	mg/kg	TM36/PM12
>EC8-EC10 (HS_1D_AR) #M	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.4	0.8 SV	<0.1 SV	<0.1	mg/kg	TM36/PM12
>EC10-EC12 (EH_CU_1D_AR) #	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	110	34	<0.2	<0.2	mg/kg	TM5/PM8/PM16
>EC12-EC16 (EH_CU_1D_AR) #	<4	<4	<4	<4	<4	<4	<4	520	150	<4	<4	mg/kg	TM5/PM8/PM16
>EC16-EC21 (EH_CU_1D_AR) #	<7	<7	<7	<7	<7	<7	19	910	260	<7	<7	mg/kg	TM5/PM8/PM16
>EC21-EC35 (EH_CU_1D_AR) #	<7	<7	<7	<7	<7	15	43	280	84	<7	<7	mg/kg	TM5/PM8/PM16
Total aromatics C5-35 (EH+HS_CU_1D_AR) #	<19	<19	<19	<19	<19	<19	62	1821	529	<19	<19	mg/kg	TM5/TM36/PM8/PM12/PM16
Total aliphatics and aromatics(C5-35) (EH+HS_CU_1D_Total)	51	<38	<38	<38	<38	<38	215	5688	1715	<38	<38	mg/kg	TM5/TM36/PM8/PM12/PM16
Total Phenols HPLC	-	-	-	-	-	-	-	-	-	-	<0.15	mg/kg	TM26/PM21B
Natural Moisture Content	12.9	14.8	10.1	12.4	6.9	13.3	7.0	8.5	8.5	10.7	<0.1	%	PM4/PM0
Hexavalent Chromium #	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	-	-	<0.3	mg/kg	TM38/PM20
Total Cyanide #M	-	-	-	-	-	-	-	-	-	-	<0.5	mg/kg	TM89/PM45
Sample Type	Clayey Sand	Clay	Clay	Clayey Sand	Clayey Sand	Clayey Sand	Clay	Clayey Sand	Clayey Sand	Clay		None	PM13/PM0
Sample Colour	Medium Brown	Medium Brown	Medium Brown	Medium Brown	Medium Brown	Medium Brown	Medium Brown	Medium Brown	Medium Brown	Medium Brown		None	PM13/PM0
Other Items	stones	stones	stones	stones	stones	stones	stones, sand	stones	stones	stones		None	PM13/PM0
PAH MS													
PAH 17 Total	-	-	-	-	-	-	-	-	-	-	<0.64	mg/kg	TM4/PM8
PCB 28 #	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	-	-	<0.005	mg/kg	TM17/PM8
PCB 52 #	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	-	-	<0.005	mg/kg	TM17/PM8
PCB 101 #	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	-	-	<0.005	mg/kg	TM17/PM8
PCB 118 #	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	-	-	<0.005	mg/kg	TM17/PM8
PCB 138 #	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	-	-	<0.005	mg/kg	TM17/PM8
PCB 153 #	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	-	-	<0.005	mg/kg	TM17/PM8
PCB 180 #	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	-	-	<0.005	mg/kg	TM17/PM8
Total 7 PCBs #	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	-	-	<0.035	mg/kg	TM17/PM8

Please see attached notes for all abbreviations and acronyms

Element Materials Technology

Client Name: SLR Consulting Ltd
Reference: 406.064893.00001
Location: Llangefni
Contact: Esteban Forero
EMT Job No: 23/15028

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

EMT Sample No.	1-4	5-8	13-16	17-20	25-28	29-32	33-36	37-40	41-44	48-50	LOD/LOR	Units	Method No.
Sample ID	BH10	BH10	BH11	BH11	BH2	BH2	BH3	BH3	BH3	BH3			
Depth	0.50-0.70	1.30-1.50	0.60-0.80	1.20-1.40	0.60-0.80	1.40-1.60	0.50	1.00	1.50	2.00			
COC No / misc													
Containers	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T			
Sample Date	06/09/2023	06/09/2023	06/09/2023	06/09/2023	06/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023			
Sample Type	Clayey Sand	Clay	Clay	Clayey Sand	Clayey Sand	Clayey Sand	Clay	Clayey Sand	Clayey Sand	Clay			
Batch Number	1	1	1	1	1	1	1	1	1	1			
Date of Receipt	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023			
Total Organic Carbon #	0.18	0.05	0.18	0.18	<0.02	0.17	0.17	0.22	-	-	<0.02	%	TM21/PM24
Sulphide	-	-	-	-	-	-	-	-	-	-	<10	mg/kg	TM107/PM45
pH #M	8.2	8.4	8.3	8.6	11	9.1	9.4	8.5	-	-	<0.01	pH units	TM73/PM11

Please see attached notes for all abbreviations and acronyms

Client Name: SLR Consulting Ltd
Reference: 406.064893.00001
Location: Llangefni
Contact: Esteban Forero
EMT Job No: 23/15028

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

EMT Sample No.	51-54	55-58	63-66	71-73	74-77	78-81	86-89	90-93	94-96	104-107	LOD/LOR	Units	Method No.
Sample ID	BH7	BH7	BH4	BH4	BH12	BH12	BH12	BH16	BH16	BH5			
Depth	0.50-0.80	1.20-1.40	0.60	1.60	0.20-0.40	1.40-1.60	3.00-3.20	0.60	0.90-1.10	1.10			
COC No / misc													
Containers	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T			
Sample Date	07/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023			
Sample Type	Clayey Sand	Clayey Sand	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay			
Batch Number	1	1	1	1	1	1	1	1	1	1			
Date of Receipt	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023			
Arsenic #M	9.7	13	6.4	4.7	17	13	21	5.3	25	7.6	<0.5	mg/kg	TM30/PM15
Cadmium #M	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM30/PM15
Chromium #M	75	58	49	19	73	82	23	63	69	48	<0.5	mg/kg	TM30/PM15
Copper #M	38	26	26	6	15	29	12	23	44	26	<1	mg/kg	TM30/PM15
Lead #M	19	15	13	8	21	16	33	10	29	13	<5	mg/kg	TM30/PM15
Mercury #M	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM30/PM15
Nickel #M	42	25	29	10	35	28	27	16	49	27	<0.7	mg/kg	TM30/PM15
Selenium #M	2	<1	<1	<1	1	<1	<1	<1	2	<1	<1	mg/kg	TM30/PM15
Total Sulphate as SO4 #M	-	-	-	-	-	-	-	-	-	-	<50	mg/kg	TM50/PM29
Zinc #M	59	54	62	9	48	44	13	55	65	47	<5	mg/kg	TM30/PM15
PAH MS													
Naphthalene #M	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.08	<0.04	<0.04	<0.04	<0.04	mg/kg	TM4/PM8
Acenaphthylene	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	mg/kg	TM4/PM8
Acenaphthene #M	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	mg/kg	TM4/PM8
Fluorene #M	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.04	<0.04	<0.04	<0.04	<0.04	mg/kg	TM4/PM8
Phenanthrene #M	<0.03	<0.03	<0.03	0.05	<0.03	<0.03	0.21	<0.03	<0.03	<0.03	<0.03	mg/kg	TM4/PM8
Anthracene #	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	mg/kg	TM4/PM8
Fluoranthene #M	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	mg/kg	TM4/PM8
Pyrene #	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	mg/kg	TM4/PM8
Benzo(a)anthracene #	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	mg/kg	TM4/PM8
Chrysene #M	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.05	<0.02	<0.02	<0.02	<0.02	mg/kg	TM4/PM8
Benzo(bk)fluoranthene #M	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	mg/kg	TM4/PM8
Benzo(a)pyrene #	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	mg/kg	TM4/PM8
Indeno(123cd)pyrene #M	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	mg/kg	TM4/PM8
Dibenzo(ah)anthracene #	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	mg/kg	TM4/PM8
Benzo(ghi)perylene #	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	mg/kg	TM4/PM8
Coronene	-	-	-	-	-	-	-	-	-	-	<0.04	mg/kg	TM4/PM8
PAH 16 Total	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	mg/kg	TM4/PM8
Benzo(b)fluoranthene	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	mg/kg	TM4/PM8
Benzo(k)fluoranthene	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	mg/kg	TM4/PM8
PAH Surrogate % Recovery	98	97	96	97	96	95	97	99	93	98	<0	%	TM4/PM8
Methyl Tertiary Butyl Ether #M	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	mg/kg	TM15/PM10
Benzene #M	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	mg/kg	TM15/PM10
Toluene #M	<0.003	<0.003	<0.003	0.008	<0.003	<0.003	0.003	<0.003	<0.003	<0.003	<0.003	mg/kg	TM15/PM10
Ethylbenzene #M	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	mg/kg	TM15/PM10
m/p-Xylene #M	<0.004	<0.004	<0.004	0.008	<0.004	<0.004	0.012	<0.004	<0.004	<0.004	<0.004	mg/kg	TM15/PM10
o-Xylene #M	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	mg/kg	TM15/PM10
Surrogate Recovery Toluene D8	99	100	95	97	96	99	89	92	93	96	<0	%	TM15/PM10
Surrogate Recovery 4-Bromofluorobenzene	99	98	91	91	96	97	79	88	81	93	<0	%	TM15/PM10
EPH (C8-C40) (EH_1D_Total) #M	-	-	-	-	-	-	-	-	-	-	<30	mg/kg	TM5/PM8

Please see attached notes for all abbreviations and acronyms

Client Name: SLR Consulting Ltd
Reference: 406.064893.00001
Location: Llangefni
Contact: Esteban Forero
EMT Job No: 23/15028

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

EMT Sample No.	51-54	55-58	63-66	71-73	74-77	78-81	86-89	90-93	94-96	104-107	LOD/LOR	Units	Method No.
Sample ID	BH7	BH7	BH4	BH4	BH12	BH12	BH12	BH16	BH16	BH5			
Depth	0.50-0.80	1.20-1.40	0.60	1.60	0.20-0.40	1.40-1.60	3.00-3.20	0.60	0.90-1.10	1.10			
COC No / misc													
Containers	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T			
Sample Date	07/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023			
Sample Type	Clayey Sand	Clayey Sand	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay			
Batch Number	1	1	1	1	1	1	1	1	1	1			
Date of Receipt	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023			
TPH CWG													
Aliphatics													
>C5-C6 (HS_1D_AL) #M	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>C6-C8 (HS_1D_AL) #M	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>C8-C10 (HS_1D_AL)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>C10-C12 (EH_CU_1D_AL) #M	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	2.9	<0.2	<0.2	<0.2	<0.2	mg/kg	TM5/PM8/PM16
>C12-C16 (EH_CU_1D_AL) #M	<4	<4	<4	<4	<4	<4	9	<4	<4	<4	<4	mg/kg	TM5/PM8/PM16
>C16-C21 (EH_CU_1D_AL) #M	<7	<7	<7	12	<7	<7	12	<7	<7	<7	<7	mg/kg	TM5/PM8/PM16
>C21-C35 (EH_CU_1D_AL) #M	<7	<7	<7	10	<7	<7	15	22	<7	<7	<7	mg/kg	TM5/PM8/PM16
Total aliphatics C5-35 (EH+HS_CU_1D_AL)	<19	<19	<19	22	<19	<19	39	22	<19	<19	<19	mg/kg	TM5/TM36/PM8/PM12/PM16
Aromatics													
>C5-EC7 (HS_1D_AR) #	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>EC7-EC8 (HS_1D_AR) #	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>EC8-EC10 (HS_1D_AR) #M	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>EC10-EC12 (EH_CU_1D_AR) #	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	mg/kg	TM5/PM8/PM16
>EC12-EC16 (EH_CU_1D_AR) #	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	mg/kg	TM5/PM8/PM16
>EC16-EC21 (EH_CU_1D_AR) #	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	mg/kg	TM5/PM8/PM16
>EC21-EC35 (EH_CU_1D_AR) #	<7	<7	66	<7	<7	<7	<7	92	<7	13	<7	mg/kg	TM5/PM8/PM16
Total aromatics C5-35 (EH+HS_CU_1D_AR) #	<19	<19	66	<19	<19	<19	<19	92	<19	<19	<19	mg/kg	TM5/TM36/PM8/PM12/PM16
Total aliphatics and aromatics(C5-35) (EH+HS_CU_1D_Total)	<38	<38	66	<38	<38	<38	39	114	<38	<38	<38	mg/kg	TM5/TM36/PM8/PM12/PM16
Total Phenols HPLC	-	-	-	-	-	-	-	-	-	-	<0.15	mg/kg	TM26/PM21B
Natural Moisture Content	16.2	11.1	8.2	2.8	17.0	11.7	3.3	8.4	17.3	15.3	<0.1	%	PM4/PM0
Hexavalent Chromium #	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	mg/kg	TM38/PM20
Total Cyanide #M	-	-	-	-	-	-	-	-	-	-	<0.5	mg/kg	TM89/PM45
Sample Type	Clayey Sand	Clayey Sand	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay		None	PM13/PM0
Sample Colour	Medium Brown	Medium Brown	Medium Brown	Medium Brown	Medium Brown	Medium Brown	Medium Brown	Medium Brown	Medium Brown	Medium Brown		None	PM13/PM0
Other Items	stones	stones	stones	stones	stones	stones	stones	stones	stones	stones		None	PM13/PM0
PAH MS													
PAH 17 Total	-	-	-	-	-	-	-	-	-	-	<0.64	mg/kg	TM4/PM8
PCB 28 #	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	mg/kg	TM17/PM8
PCB 52 #	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	mg/kg	TM17/PM8
PCB 101 #	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	mg/kg	TM17/PM8
PCB 118 #	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	mg/kg	TM17/PM8
PCB 138 #	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	mg/kg	TM17/PM8
PCB 153 #	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	mg/kg	TM17/PM8
PCB 180 #	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	mg/kg	TM17/PM8
Total 7 PCBs #	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	mg/kg	TM17/PM8

Please see attached notes for all abbreviations and acronyms

Element Materials Technology

Client Name: SLR Consulting Ltd
Reference: 406.064893.00001
Location: Llangefni
Contact: Esteban Forero
EMT Job No: 23/15028

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

EMT Sample No.	51-54	55-58	63-66	71-73	74-77	78-81	86-89	90-93	94-96	104-107	LOD/LOR	Units	Method No.
Sample ID	BH7	BH7	BH4	BH4	BH12	BH12	BH12	BH16	BH16	BH5			
Depth	0.50-0.80	1.20-1.40	0.60	1.60	0.20-0.40	1.40-1.60	3.00-3.20	0.60	0.90-1.10	1.10			
COC No / misc													
Containers	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T			
Sample Date	07/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023			
Sample Type	Clayey Sand	Clayey Sand	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay			
Batch Number	1	1	1	1	1	1	1	1	1	1			
Date of Receipt	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023			
Total Organic Carbon #	0.17	0.06	0.48	0.17	0.32	0.24	0.90	0.37	0.37	0.20	<0.02	%	TM21/PM24
Sulphide	-	-	-	-	-	-	-	-	-	-	<10	mg/kg	TM107/PM45
pH #M	8.0	8.8	8.6	8.8	7.5	8.4	8.7	8.4	7.9	8.0	<0.01	pH units	TM73/PM11

Please see attached notes for all abbreviations and acronyms

Please include all sections of this report if it is reproduced
All solid results are expressed on a dry weight basis unless stated otherwise.

Client Name: SLR Consulting Ltd
Reference: 406.064893.00001
Location: Llangefni
Contact: Esteban Forero
EMT Job No: 23/15028

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

Please see attached notes for all abbreviations and acronyms

EMT Sample No.	108-111	115-118	119-121	122-125	126-129	130-133					LOD/LOR	Units	Method No.
Sample ID	BH5	BH6	BH6	BH4A	BH9	SKIP							
Depth	2.40	0.40	1.75	0.30	0.40								
COC No / misc													
Containers	V J T	V J T	V J T	V J T	V J T	V J T							
Sample Date	07/09/2023	06/09/2023	07/09/2023	07/09/2023	07/09/2023	08/09/2023							
Sample Type	Clay	Clay	Clay	Clay	Clayey Sand	Clay							
Batch Number	1	1	1	1	1	1							
Date of Receipt	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023							
Arsenic #M	8.2	7.4	14	18	2.1	10					<0.5	mg/kg	TM30/PM15
Cadmium #M	<0.1	<0.1	<0.1	0.2	<0.1	<0.1					<0.1	mg/kg	TM30/PM15
Chromium #M	65	73	23	67	64	82					<0.5	mg/kg	TM30/PM15
Copper #M	26	25	19	26	6	31					<1	mg/kg	TM30/PM15
Lead #M	12	12	30	61	8	23					<5	mg/kg	TM30/PM15
Mercury #M	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1					<0.1	mg/kg	TM30/PM15
Nickel #M	26	19	38	26	5.8	36					<0.7	mg/kg	TM30/PM15
Selenium #M	<1	1	2	<1	<1	<1					<1	mg/kg	TM30/PM15
Total Sulphate as SO4 #M	-	-	-	-	-	130					<50	mg/kg	TM50/PM29
Zinc #M	40	45	22	190	34	49					<5	mg/kg	TM30/PM15
PAH MS													
Naphthalene #M	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04					<0.04	mg/kg	TM4/PM8
Acenaphthylene	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03					<0.03	mg/kg	TM4/PM8
Acenaphthene #M	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05					<0.05	mg/kg	TM4/PM8
Fluorene #M	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04					<0.04	mg/kg	TM4/PM8
Phenanthrene #M	<0.03	<0.03	<0.03	0.07	<0.03	<0.03					<0.03	mg/kg	TM4/PM8
Anthracene #	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04					<0.04	mg/kg	TM4/PM8
Fluoranthene #M	<0.03	<0.03	<0.03	0.06	<0.03	<0.03					<0.03	mg/kg	TM4/PM8
Pyrene #	<0.03	<0.03	<0.03	0.08	<0.03	<0.03					<0.03	mg/kg	TM4/PM8
Benzo(a)anthracene #	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06					<0.06	mg/kg	TM4/PM8
Chrysene #M	<0.02	<0.02	<0.02	0.14	<0.02	<0.02					<0.02	mg/kg	TM4/PM8
Benzo(bk)fluoranthene #M	<0.07	<0.07	<0.07	0.16	<0.07	<0.07					<0.07	mg/kg	TM4/PM8
Benzo(a)pyrene #	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04					<0.04	mg/kg	TM4/PM8
Indeno(123cd)pyrene #M	<0.04	<0.04	<0.04	0.07	<0.04	<0.04					<0.04	mg/kg	TM4/PM8
Dibenzo(ah)anthracene #	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04					<0.04	mg/kg	TM4/PM8
Benzo(ghi)perylene #	<0.04	<0.04	<0.04	0.14	<0.04	<0.04					<0.04	mg/kg	TM4/PM8
Coronene	-	-	-	-	-	<0.04					<0.04	mg/kg	TM4/PM8
PAH 16 Total	<0.6	<0.6	<0.6	0.7	<0.6	<0.6					<0.6	mg/kg	TM4/PM8
Benzo(b)fluoranthene	<0.05	<0.05	<0.05	0.12	<0.05	<0.05					<0.05	mg/kg	TM4/PM8
Benzo(k)fluoranthene	<0.02	<0.02	<0.02	0.05	<0.02	<0.02					<0.02	mg/kg	TM4/PM8
PAH Surrogate % Recovery	97	97	99	98	98	97					<0	%	TM4/PM8
Methyl Tertiary Butyl Ether #M	<0.006	<0.006	<0.006 SV	<0.006	<0.006	-					<0.006	mg/kg	TM15/PM10
Benzene #M	<0.005	<0.005	<0.005 SV	<0.005	<0.005	-					<0.005	mg/kg	TM15/PM10
Toluene #M	<0.003	<0.003	<0.003 SV	<0.003	<0.003	-					<0.003	mg/kg	TM15/PM10
Ethylbenzene #M	<0.003	<0.003	<0.003 SV	<0.003	<0.003	-					<0.003	mg/kg	TM15/PM10
m/p-Xylene #M	<0.004	<0.004	<0.004 SV	0.006	<0.004	-					<0.004	mg/kg	TM15/PM10
o-Xylene #M	<0.004	<0.004	<0.004 SV	<0.004	<0.004	-					<0.004	mg/kg	TM15/PM10
Surrogate Recovery Toluene D8	93	92	47 SV	76	92	-					<0	%	TM15/PM10
Surrogate Recovery 4-Bromofluorobenzene	90	87	48 SV	71	93	-					<0	%	TM15/PM10
EPH (C8-C40) (EH_1D_Total) #M	-	-	-	-	-	<30					<30	mg/kg	TM5/PM8

Client Name: SLR Consulting Ltd
Reference: 406.064893.00001
Location: Llangefni
Contact: Esteban Forero
EMT Job No: 23/15028

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

Please see attached notes for all abbreviations and acronyms

EMT Sample No.	108-111	115-118	119-121	122-125	126-129	130-133					LOD/LOR	Units	Method No.
Sample ID	BH5	BH6	BH6	BH4A	BH9	SKIP							
Depth	2.40	0.40	1.75	0.30	0.40								
COC No / misc													
Containers	V J T	V J T	V J T	V J T	V J T	V J T							
Sample Date	07/09/2023	06/09/2023	07/09/2023	07/09/2023	07/09/2023	08/09/2023							
Sample Type	Clay	Clay	Clay	Clay	Clayey Sand	Clay							
Batch Number	1	1	1	1	1	1							
Date of Receipt	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023							
TPH CWG													
Aliphatics													
>C5-C6 (HS_1D_AL) #M	<0.1	<0.1	<0.1 SV	<0.1	<0.1	-					<0.1	mg/kg	TM36/PM12
>C6-C8 (HS_1D_AL) #M	<0.1	<0.1	<0.1 SV	<0.1	<0.1	-					<0.1	mg/kg	TM36/PM12
>C8-C10 (HS_1D_AL)	<0.1	<0.1	<0.1 SV	<0.1	<0.1	-					<0.1	mg/kg	TM36/PM12
>C10-C12 (EH_CU_1D_AL) #M	<0.2	3.2	5.6	2.3	<0.2	-					<0.2	mg/kg	TM5/PM8/PM16
>C12-C16 (EH_CU_1D_AL) #M	<4	24	15	16	<4	-					<4	mg/kg	TM5/PM8/PM16
>C16-C21 (EH_CU_1D_AL) #M	<7	66	24	220	<7	-					<7	mg/kg	TM5/PM8/PM16
>C21-C35 (EH_CU_1D_AL) #M	<7	55	37	190	<7	-					<7	mg/kg	TM5/PM8/PM16
Total aliphatics C5-35 (EH+HS_CU_1D_AL)	<19	148	82	428	<19	-					<19	mg/kg	TM5/TM36/PM8/PM12/PM16
Aromatics													
>C5-EC7 (HS_1D_AR) #	<0.1	<0.1	<0.1 SV	<0.1	<0.1	-					<0.1	mg/kg	TM36/PM12
>EC7-EC8 (HS_1D_AR) #	<0.1	<0.1	<0.1 SV	<0.1	<0.1	-					<0.1	mg/kg	TM36/PM12
>EC8-EC10 (HS_1D_AR) #M	<0.1	<0.1	<0.1 SV	<0.1	<0.1	-					<0.1	mg/kg	TM36/PM12
>EC10-EC12 (EH_CU_1D_AR) #	<0.2	<0.2	<0.2	<0.2	<0.2	-					<0.2	mg/kg	TM5/PM8/PM16
>EC12-EC16 (EH_CU_1D_AR) #	<4	<4	19	<4	<4	-					<4	mg/kg	TM5/PM8/PM16
>EC16-EC21 (EH_CU_1D_AR) #	<7	<7	61	57	<7	-					<7	mg/kg	TM5/PM8/PM16
>EC21-EC35 (EH_CU_1D_AR) #	<7	18	110	250	15	-					<7	mg/kg	TM5/PM8/PM16
Total aromatics C5-35 (EH+HS_CU_1D_AR) #	<19	<19	190	307	<19	-					<19	mg/kg	TM5/TM36/PM8/PM12/PM16
Total aliphatics and aromatics(C5-35) (EH+HS_CU_1D_Total)	<38	148	272	735	<38	-					<38	mg/kg	TM5/TM36/PM8/PM12/PM16
Total Phenols HPLC	-	-	-	-	-	<0.15					<0.15	mg/kg	TM26/PM21B
Natural Moisture Content	15.6	6.0	9.1	11.2	7.2	16.7					<0.1	%	PM4/PM0
Hexavalent Chromium #	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3					<0.3	mg/kg	TM38/PM20
Total Cyanide #M	-	-	-	-	-	<0.5					<0.5	mg/kg	TM89/PM45
Sample Type	Clay	Clay	Clay	Clay	Clayey Sand	Clay						None	PM13/PM0
Sample Colour	Medium Brown	Medium Brown	Medium Brown	Medium Brown	Medium Brown	Medium Brown						None	PM13/PM0
Other Items	stones	stones	stones	stones, vegetation	stones	stones						None	PM13/PM0
PAH MS													
PAH 17 Total	-	-	-	-	-	<0.64					<0.64	mg/kg	TM4/PM8
PCB 28 #	<0.005	<0.005	<0.005	<0.005	<0.005	-					<0.005	mg/kg	TM17/PM8
PCB 52 #	<0.005	<0.005	<0.005	<0.005	<0.005	-					<0.005	mg/kg	TM17/PM8
PCB 101 #	<0.005	<0.005	<0.005	<0.005	<0.005	-					<0.005	mg/kg	TM17/PM8
PCB 118 #	<0.005	<0.005	<0.005	<0.005	<0.005	-					<0.005	mg/kg	TM17/PM8
PCB 138 #	<0.005	<0.005	<0.005	<0.005	<0.005	-					<0.005	mg/kg	TM17/PM8
PCB 153 #	<0.005	<0.005	<0.005	<0.005	<0.005	-					<0.005	mg/kg	TM17/PM8
PCB 180 #	<0.005	<0.005	<0.005	<0.005	<0.005	-					<0.005	mg/kg	TM17/PM8
Total 7 PCBs #	<0.035	<0.035	<0.035	<0.035	<0.035	-					<0.035	mg/kg	TM17/PM8

Element Materials Technology

Client Name: SLR Consulting Ltd
Reference: 406.064893.00001
Location: Llangefni
Contact: Esteban Forero
EMT Job No: 23/15028

Report : **Solid**

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

EMT Sample No.	108-111	115-118	119-121	122-125	126-129	130-133					LOD/LOR	Units	Method No.
Sample ID	BH5	BH6	BH6	BH4A	BH9	SKIP							
Depth	2.40	0.40	1.75	0.30	0.40								
COC No / misc													
Containers	V J T	V J T	V J T	V J T	V J T	V J T							
Sample Date	07/09/2023	06/09/2023	07/09/2023	07/09/2023	07/09/2023	08/09/2023							
Sample Type	Clay	Clay	Clay	Clay	Clayey Sand	Clay							
Batch Number	1	1	1	1	1	1							
Date of Receipt	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023							
Total Organic Carbon #	0.23	0.31	0.55	0.81	0.09	-					<0.02	%	TM21/PM24
Sulphide	-	-	-	-	-	<10					<10	mg/kg	TM107/PM45
pH #M	8.4	8.3	8.6	8.7	10	8.0					<0.01	pH units	TM73/PM11

Please see attached notes for all abbreviations and acronyms

Client Name: SLR Consulting Ltd
Reference: 406.064893.00001
Location: Llangefni
Contact: Esteban Forero
EMT Job No: 23/15028

VOC Report : **Solid**

EMT Sample No.	1-4	5-8	13-16	17-20	25-28	29-32	33-36	37-40	51-54	55-58	LOD/LOR	Units	Method No.
Sample ID	BH10	BH10	BH11	BH11	BH2	BH2	BH3	BH3	BH7	BH7			
Depth	0.50-0.70	1.30-1.50	0.60-0.80	1.20-1.40	0.60-0.80	1.40-1.60	0.50	1.00	0.50-0.80	1.20-1.40			
COC No / misc													
Containers	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T			
Sample Date	06/09/2023	06/09/2023	06/09/2023	06/09/2023	06/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023			
Sample Type	Clayey Sand	Clay	Clay	Clayey Sand	Clayey Sand	Clayey Sand	Clay	Clayey Sand	Clayey Sand	Clayey Sand			
Batch Number	1	1	1	1	1	1	1	1	1	1			
Date of Receipt	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023			
VOC MS													
Surrogate Recovery Toluene D8	98	98	98	99	98	98	110	71	99	100	<0	%	TM15/PM10
Surrogate Recovery 4-Bromofluorobenzene	100	100	100	99	99	99	100	65	99	98	<0	%	TM15/PM10
Dichlorodifluoromethane	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	mg/kg	TM15/PM10
Methyl Tertiary Butyl Ether #M	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	mg/kg	TM15/PM10
Chloromethane #	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	mg/kg	TM15/PM10
Vinyl Chloride	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	mg/kg	TM15_A/PM10
Bromomethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	mg/kg	TM15/PM10
Chloroethane #M	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	mg/kg	TM15/PM10
Trichlorofluoromethane #M	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	mg/kg	TM15/PM10
1,1-Dichloroethene (1,1 DCE) #M	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	mg/kg	TM15/PM10
Dichloromethane (DCM) #	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	mg/kg	TM15/PM10
trans-1-2-Dichloroethene #	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	mg/kg	TM15/PM10
1,1-Dichloroethane #M	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	mg/kg	TM15/PM10
cis-1-2-Dichloroethene #M	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	mg/kg	TM15/PM10
2,2-Dichloropropane	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	mg/kg	TM15/PM10
Bromochloromethane #M	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	mg/kg	TM15/PM10
Chloroform #M	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	mg/kg	TM15/PM10
1,1,1-Trichloroethane #M	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	mg/kg	TM15/PM10
1,1-Dichloropropene #	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	mg/kg	TM15/PM10
Carbon tetrachloride #M	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	mg/kg	TM15/PM10
1,2-Dichloroethane #M	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	mg/kg	TM15/PM10
Benzene #M	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	mg/kg	TM15/PM10
Trichloroethene (TCE) #M	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	mg/kg	TM15/PM10
1,2-Dichloropropane #M	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	mg/kg	TM15/PM10
Dibromomethane #M	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	mg/kg	TM15/PM10
Bromodichloromethane #M	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	mg/kg	TM15/PM10
cis-1-3-Dichloropropene	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	mg/kg	TM15/PM10
Toluene #M	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	mg/kg	TM15/PM10
trans-1-3-Dichloropropene	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	mg/kg	TM15/PM10
1,1,2-Trichloroethane #M	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	mg/kg	TM15/PM10
Tetrachloroethene (PCE) #	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	mg/kg	TM15/PM10
1,3-Dichloropropane #M	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	mg/kg	TM15/PM10
Dibromochloromethane #M	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	mg/kg	TM15/PM10
1,2-Dibromoethane #	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	mg/kg	TM15/PM10
Chlorobenzene #M	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	mg/kg	TM15/PM10
1,1,1,2-Tetrachloroethane #M	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	mg/kg	TM15/PM10
Ethylbenzene #M	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.15	<0.003	<0.003	<0.003	mg/kg	TM15/PM10
m/p-Xylene #M	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.17	<0.004	<0.004	<0.004	mg/kg	TM15/PM10
o-Xylene #M	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.15	<0.004	<0.004	<0.004	mg/kg	TM15/PM10
Styrene	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	mg/kg	TM15_A/PM10
Bromoform	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	mg/kg	TM15/PM10
Isopropylbenzene #	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.18	<0.003	<0.003	<0.003	mg/kg	TM15/PM10
1,1,2,2-Tetrachloroethane #M	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	mg/kg	TM15/PM10
Bromobenzene	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	mg/kg	TM15/PM10
1,2,3-Trichloropropane #M	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	mg/kg	TM15/PM10
Propylbenzene #	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.46	<0.004	<0.004	<0.004	mg/kg	TM15/PM10
2-Chlorotoluene	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	mg/kg	TM15/PM10
1,3,5-Trimethylbenzene #	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	1.2	<0.003	<0.003	<0.003	mg/kg	TM15/PM10
4-Chlorotoluene	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	mg/kg	TM15/PM10
tert-Butylbenzene #	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	mg/kg	TM15/PM10
1,2,4-Trimethylbenzene #	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	5.8 AA	<0.006	<0.006	<0.006	mg/kg	TM15/PM10
sec-Butylbenzene #	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.77	<0.004	<0.004	<0.004	mg/kg	TM15/PM10
4-Isopropyltoluene	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.59	<0.004	<0.004	<0.004	mg/kg	TM15/PM10
1,3-Dichlorobenzene #M	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	mg/kg	TM15/PM10
1,4-Dichlorobenzene #	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	mg/kg	TM15/PM10
n-Butylbenzene	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	1.2	<0.004	<0.004	<0.004	mg/kg	TM15/PM10
1,2-Dichlorobenzene #M	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	mg/kg	TM15/PM10
1,2-Dibromo-3-chloropropane	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	mg/kg	TM15/PM10
1,2,4-Trichlorobenzene	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	mg/kg	TM15/PM10
Hexachlorobutadiene	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	mg/kg	TM15/PM10
Naphthalene	<0.027	<0.027	<0.027	<0.027	<0.027	<0.027	<0.027	1.6	<0.027	<0.027	<0.027	mg/kg	TM15/PM10
1,2,3-Trichlorobenzene	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	mg/kg	TM15/PM10

Please see attached notes for all abbreviations and acronyms

All solid results are expressed on a dry weight basis unless stated otherwise.

Client Name: SLR Consulting Ltd
Reference: 406.064893.00001
Location: Llangefni
Contact: Esteban Forero
EMT Job No: 23/15028

VOC Report : **Solid**

EMT Sample No.	63-66	71-73	74-77	78-81	86-89	90-93	94-96	104-107	108-111	115-118	LOD/LOR	Units	Method No.
Sample ID	BH4	BH4	BH12	BH12	BH12	BH16	BH16	BH5	BH5	BH6			
Depth	0.60	1.60	0.20-0.40	1.40-1.60	3.00-3.20	0.60	0.90-1.10	1.10	2.40	0.40			
COC No / misc													
Containers	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T			
Sample Date	07/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023	06/09/2023			
Sample Type	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay			
Batch Number	1	1	1	1	1	1	1	1	1	1			
Date of Receipt	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023			
VOC MS													
Surrogate Recovery Toluene D8	95	97	96	99	89	92	93	96	93	92	<0	%	TM15/PM10
Surrogate Recovery 4-Bromofluorobenzene	91	91	96	97	79	88	81	93	90	87	<0	%	TM15/PM10
Dichlorodifluoromethane	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	mg/kg	TM15/PM10
Methyl Tertiary Butyl Ether #M	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	mg/kg	TM15/PM10
Chloromethane #	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	mg/kg	TM15/PM10
Vinyl Chloride	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	mg/kg	TM15_A/PM10
Bromomethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	mg/kg	TM15/PM10
Chloroethane #M	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	mg/kg	TM15/PM10
Trichlorofluoromethane #M	<0.003	<0.003	<0.003	<0.003	0.12	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	mg/kg	TM15/PM10
1,1-Dichloroethene (1,1 DCE) #M	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	mg/kg	TM15/PM10
Dichloromethane (DCM) #	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	mg/kg	TM15/PM10
trans-1-2-Dichloroethene #	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	mg/kg	TM15/PM10
1,1-Dichloroethane #M	<0.006	<0.006	<0.006	0.039	0.032	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	mg/kg	TM15/PM10
cis-1-2-Dichloroethene #M	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	mg/kg	TM15/PM10
2,2-Dichloropropane	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	mg/kg	TM15/PM10
Bromochloromethane #M	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	mg/kg	TM15/PM10
Chloroform #M	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	mg/kg	TM15/PM10
1,1,1-Trichloroethane #M	<0.005	<0.005	<0.005	0.015	0.18	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	mg/kg	TM15/PM10
1,1-Dichloropropene #	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	mg/kg	TM15/PM10
Carbon tetrachloride #M	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	mg/kg	TM15/PM10
1,2-Dichloroethane #M	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	mg/kg	TM15/PM10
Benzene #M	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	mg/kg	TM15/PM10
Trichloroethene (TCE) #M	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	mg/kg	TM15/PM10
1,2-Dichloropropane #M	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	mg/kg	TM15/PM10
Dibromomethane #M	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	mg/kg	TM15/PM10
Bromodichloromethane #M	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	mg/kg	TM15/PM10
cis-1-3-Dichloropropene	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	mg/kg	TM15/PM10
Toluene #M	<0.003	0.008	<0.003	<0.003	0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	mg/kg	TM15/PM10
trans-1-3-Dichloropropene	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	mg/kg	TM15/PM10
1,1,2-Trichloroethane #M	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	mg/kg	TM15/PM10
Tetrachloroethene (PCE) #	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	mg/kg	TM15/PM10
1,3-Dichloropropane #M	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	mg/kg	TM15/PM10
Dibromochloromethane #M	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	mg/kg	TM15/PM10
1,2-Dibromoethane #	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	mg/kg	TM15/PM10
Chlorobenzene #M	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	mg/kg	TM15/PM10
1,1,1,2-Tetrachloroethane #M	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	mg/kg	TM15/PM10
Ethylbenzene #M	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	mg/kg	TM15/PM10
m/p-Xylene #M	<0.004	0.008	<0.004	<0.004	0.012	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	mg/kg	TM15/PM10
o-Xylene #M	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	mg/kg	TM15/PM10
Styrene	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	mg/kg	TM15_A/PM10
Bromoform	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	mg/kg	TM15/PM10
Isopropylbenzene #	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	mg/kg	TM15/PM10
1,1,2,2-Tetrachloroethane #M	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	mg/kg	TM15/PM10
Bromobenzene	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	mg/kg	TM15/PM10
1,2,3-Trichloropropane #M	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	mg/kg	TM15/PM10
Propylbenzene #	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	mg/kg	TM15/PM10
2-Chlorotoluene	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	mg/kg	TM15/PM10
1,3,5-Trimethylbenzene #	<0.003	<0.003	<0.003	<0.003	0.004	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	mg/kg	TM15/PM10
4-Chlorotoluene	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	mg/kg	TM15/PM10
tert-Butylbenzene #	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	mg/kg	TM15/PM10
1,2,4-Trimethylbenzene #	<0.006	<0.006	<0.006	<0.006	0.009	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	mg/kg	TM15/PM10
sec-Butylbenzene #	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	mg/kg	TM15/PM10
4-Isopropyltoluene	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	mg/kg	TM15/PM10
1,3-Dichlorobenzene #M	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	mg/kg	TM15/PM10
1,4-Dichlorobenzene #	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	mg/kg	TM15/PM10
n-Butylbenzene	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	mg/kg	TM15/PM10
1,2-Dichlorobenzene #M	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	mg/kg	TM15/PM10
1,2-Dibromo-3-chloropropane	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	mg/kg	TM15/PM10
1,2,4-Trichlorobenzene	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	mg/kg	TM15/PM10
Hexachlorobutadiene	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	mg/kg	TM15/PM10
Naphthalene	<0.027	<0.027	<0.027	<0.027	<0.027	<0.027	<0.027	<0.027	<0.027	<0.027	<0.027	mg/kg	TM15/PM10
1,2,3-Trichlorobenzene	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	mg/kg	TM15/PM10

Please see attached notes for all abbreviations and acronyms

Client Name: SLR Consulting Ltd
Reference: 406.064893.00001
Location: Llangefni
Contact: Esteban Forero
EMT Job No: 23/15028

VOC Report : **Solid**

EMT Sample No.	119-121	122-125	126-129									
Sample ID	BH6	BH4A	BH9									
Depth	1.75	0.30	0.40									
COC No / misc												
Containers	V J T	V J T	V J T									
Sample Date	07/09/2023	07/09/2023	07/09/2023									
Sample Type	Clay	Clay	Clayey Sand									
Batch Number	1	1	1									
Date of Receipt	12/09/2023	12/09/2023	12/09/2023									

Please see attached notes for all abbreviations and acronyms

VOC MS													
Surrogate Recovery Toluene D8	47 SV	76	92								<0	%	TM15/PM10
Surrogate Recovery 4-Bromofluorobenzene	48 SV	71	93								<0	%	TM15/PM10
Dichlorodifluoromethane	<0.002 SV	<0.002	<0.002								<0.002	mg/kg	TM15/PM10
Methyl Tertiary Butyl Ether #M	<0.006 SV	<0.006	<0.006								<0.006	mg/kg	TM15/PM10
Chloromethane #	<0.003 SV	<0.003	<0.003								<0.003	mg/kg	TM15/PM10
Vinyl Chloride	<0.002 SV	<0.002	<0.002								<0.002	mg/kg	TM15_A/PM10
Bromomethane	<0.001 SV	<0.001	<0.001								<0.001	mg/kg	TM15/PM10
Chloroethane #M	<0.006 SV	<0.006	<0.006								<0.006	mg/kg	TM15/PM10
Trichlorofluoromethane #M	<0.003 SV	<0.003	<0.003								<0.003	mg/kg	TM15/PM10
1,1-Dichloroethene (1,1 DCE) #M	<0.006 SV	<0.006	<0.006								<0.006	mg/kg	TM15/PM10
Dichloromethane (DCM) #	<0.007 SV	<0.007	<0.007								<0.007	mg/kg	TM15/PM10
trans-1-2-Dichloroethene #	<0.003 SV	<0.003	<0.003								<0.003	mg/kg	TM15/PM10
1,1-Dichloroethane #M	<0.006 SV	<0.006	<0.006								<0.006	mg/kg	TM15/PM10
cis-1-2-Dichloroethene #M	<0.007 SV	<0.007	<0.007								<0.007	mg/kg	TM15/PM10
2,2-Dichloropropane	<0.004 SV	<0.004	<0.004								<0.004	mg/kg	TM15/PM10
Bromochloromethane #M	<0.004 SV	<0.004	<0.004								<0.004	mg/kg	TM15/PM10
Chloroform #M	<0.005 SV	<0.005	<0.005								<0.005	mg/kg	TM15/PM10
1,1,1-Trichloroethane #M	<0.005 SV	<0.005	<0.005								<0.005	mg/kg	TM15/PM10
1,1-Dichloropropene #	<0.003 SV	<0.003	<0.003								<0.003	mg/kg	TM15/PM10
Carbon tetrachloride #M	<0.004 SV	<0.004	<0.004								<0.004	mg/kg	TM15/PM10
1,2-Dichloroethane #M	<0.005 SV	<0.005	<0.005								<0.005	mg/kg	TM15/PM10
Benzene #M	<0.005 SV	<0.005	<0.005								<0.005	mg/kg	TM15/PM10
Trichloroethene (TCE) #M	<0.005 SV	<0.005	<0.005								<0.005	mg/kg	TM15/PM10
1,2-Dichloropropane #M	<0.004 SV	<0.004	<0.004								<0.004	mg/kg	TM15/PM10
Dibromomethane #M	<0.004 SV	<0.004	<0.004								<0.004	mg/kg	TM15/PM10
Bromodichloromethane #M	<0.004 SV	<0.004	<0.004								<0.004	mg/kg	TM15/PM10
cis-1-3-Dichloropropene	<0.004 SV	<0.004	<0.004								<0.004	mg/kg	TM15/PM10
Toluene #M	<0.003 SV	<0.003	<0.003								<0.003	mg/kg	TM15/PM10
trans-1-3-Dichloropropene	<0.003 SV	<0.003	<0.003								<0.003	mg/kg	TM15/PM10
1,1,2-Trichloroethane #M	<0.004 SV	<0.004	<0.004								<0.004	mg/kg	TM15/PM10
Tetrachloroethene (PCE) #	<0.003 SV	<0.003	<0.003								<0.003	mg/kg	TM15/PM10
1,3-Dichloropropane #M	<0.004 SV	<0.004	<0.004								<0.004	mg/kg	TM15/PM10
Dibromochloromethane #M	<0.005 SV	<0.005	<0.005								<0.005	mg/kg	TM15/PM10
1,2-Dibromoethane #	<0.003 SV	<0.003	<0.003								<0.003	mg/kg	TM15/PM10
Chlorobenzene #M	<0.004 SV	<0.004	<0.004								<0.004	mg/kg	TM15/PM10
1,1,1,2-Tetrachloroethane #M	<0.005 SV	<0.005	<0.005								<0.005	mg/kg	TM15/PM10
Ethylbenzene #M	<0.003 SV	<0.003	<0.003								<0.003	mg/kg	TM15/PM10
m/p-Xylene #M	<0.004 SV	0.006	<0.004								<0.004	mg/kg	TM15/PM10
o-Xylene #M	<0.004 SV	<0.004	<0.004								<0.004	mg/kg	TM15/PM10
Styrene	<0.003 SV	<0.003	<0.003								<0.003	mg/kg	TM15_A/PM10
Bromoform	<0.004 SV	<0.004	<0.004								<0.004	mg/kg	TM15/PM10
Isopropylbenzene #	<0.003 SV	<0.003	<0.003								<0.003	mg/kg	TM15/PM10
1,1,2,2-Tetrachloroethane #M	<0.003 SV	<0.003	<0.003								<0.003	mg/kg	TM15/PM10
Bromobenzene	<0.002 SV	<0.002	<0.002								<0.002	mg/kg	TM15/PM10
1,2,3-Trichloropropane #M	<0.004 SV	<0.004	<0.004								<0.004	mg/kg	TM15/PM10
Propylbenzene #	<0.004 SV	<0.004	<0.004								<0.004	mg/kg	TM15/PM10
2-Chlorotoluene	<0.003 SV	<0.003	<0.003								<0.003	mg/kg	TM15/PM10
1,3,5-Trimethylbenzene #	<0.003 SV	<0.003	<0.003								<0.003	mg/kg	TM15/PM10
4-Chlorotoluene	<0.003 SV	<0.003	<0.003								<0.003	mg/kg	TM15/PM10
tert-Butylbenzene #	<0.005 SV	<0.005	<0.005								<0.005	mg/kg	TM15/PM10
1,2,4-Trimethylbenzene #	<0.006 SV	<0.006	<0.006								<0.006	mg/kg	TM15/PM10
sec-Butylbenzene #	<0.004 SV	<0.004	<0.004								<0.004	mg/kg	TM15/PM10
4-Isopropyltoluene	<0.004 SV	<0.004	<0.004								<0.004	mg/kg	TM15/PM10
1,3-Dichlorobenzene #M	<0.004 SV	<0.004	<0.004								<0.004	mg/kg	TM15/PM10
1,4-Dichlorobenzene #	<0.004 SV	<0.004	<0.004								<0.004	mg/kg	TM15/PM10
n-Butylbenzene	<0.004 SV	<0.004	<0.004								<0.004	mg/kg	TM15/PM10
1,2-Dichlorobenzene #M	<0.004 SV	<0.004	<0.004								<0.004	mg/kg	TM15/PM10
1,2-Dibromo-3-chloropropane	<0.004 SV	<0.004	<0.004								<0.004	mg/kg	TM15/PM10
1,2,4-Trichlorobenzene	<0.007 SV	<0.007	<0.007								<0.007	mg/kg	TM15/PM10
Hexachlorobutadiene	<0.004 SV	<0.004	<0.004								<0.004	mg/kg	TM15/PM10
Naphthalene	<0.027 SV	<0.027	<0.027								<0.027	mg/kg	TM15/PM10
1,2,3-Trichlorobenzene	<0.007 SV	<0.007	<0.007								<0.007	mg/kg	TM15/PM10

Client Name: SLR Consulting Ltd
Reference: 406.064893.00001
Location: Llangefni
Contact: Esteban Forero

Note:

Asbestos Screen analysis is carried out in accordance with our documented in-house methods PM042 and TM065 and HSG 248 by Stereo and Polarised Light Microscopy using Dispersion Staining Techniques and is covered by our UKAS accreditation. Detailed Gravimetric Quantification and PCOM Fibre Analysis is carried out in accordance with our documented in-house methods PM042 and TM131 and HSG 248 using Stereo and Polarised Light Microscopy and Phase Contrast Optical Microscopy (PCOM). Asbestos sub-samples are retained for not less than 6 months from the date of analysis unless specifically requested.

The LOQ of the Asbestos Quantification is 0.001% dry fibre of dry mass of sample.

Where the sample is not taken by a Element Materials Technology consultant, Element Materials Technology cannot be responsible for inaccurate or unrepresentative sampling.

Where trace asbestos is reported the amount of asbestos will be <0.1%.

EMT Job No.	Batch	Sample ID	Depth	EMT Sample No.	Analyst Name	Date Of Analysis	Analysis	Result
23/15028	1	BH12	0.20-0.40	76	Charlotte Taylor	12/09/2023	**General Description (Bulk Analysis)**	brown soil/stones
					Charlotte Taylor	12/09/2023	**Asbestos Fibres**	NAD
					Charlotte Taylor	12/09/2023	**Asbestos ACM**	NAD
					Charlotte Taylor	12/09/2023	**Asbestos Type**	NAD
23/15028	1	BH16	0.60	92	Catherine Coles	13/09/2023	**General Description (Bulk Analysis)**	brown soil,stone
					Catherine Coles	13/09/2023	**Asbestos Fibres**	NAD
					Catherine Coles	13/09/2023	**Asbestos ACM**	NAD
					Catherine Coles	13/09/2023	**Asbestos Type**	NAD

Client Name: SLR Consulting Ltd
Reference: 406.064893.00001
Location: Llangefni
Contact: Esteban Forero

EMT Job No.	Batch	Sample ID	Depth	EMT Sample No.	Analysis	Reason
No deviating sample report results for job 23/15028						

Please note that only samples that are deviating are mentioned in this report. If no samples are listed it is because none were deviating.
Only analyses which are accredited are recorded as deviating if set criteria are not met.

EMT Job No.: 23/15028

SOILS and ASH

Please note we are only MCERTS accredited (UK soils only) for sand, loam and clay and any other matrix is outside our scope of accreditation.

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation has been performed on clay, sand and loam, only samples that are predominantly these matrices, or combinations of them will be within our MCERTS scope. If samples are not one of a combination of the above matrices they will not be marked as MCERTS accredited.

It is assumed that you have taken representative samples on site and require analysis on a representative subsample. Stones will generally be included unless we are requested to remove them.

All samples will be discarded one month after the date of reporting, unless we are instructed to the contrary. Asbestos samples are retained for 6 months.

If you have not already done so, please send us a purchase order if this is required by your company.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

All analysis is reported on a dry weight basis unless stated otherwise. Limits of detection for analyses carried out on as received samples are not moisture content corrected. Results are not surrogate corrected. Samples are dried at 35°C ±5°C unless otherwise stated. Moisture content for CEN Leachate tests are dried at 105°C ±5°C. Ash samples are dried at 37°C ±5°C.

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

Where a CEN 10:1 ZERO Headspace VOC test has been carried out, a 10:1 ratio of water to wet (as received) soil has been used.

% Asbestos in Asbestos Containing Materials (ACMs) is determined by reference to HSG 264 The Survey Guide - Appendix 2 : ACMs in buildings listed in order of ease of fibre release.

Sufficient amount of sample must be received to carry out the testing specified. Where an insufficient amount of sample has been received the testing may not meet the requirements of our accredited methods, as such accreditation may be removed.

Negative Neutralization Potential (NP) values are obtained when the volume of NaOH (0.1N) titrated (pH 8.3) is greater than the volume of HCl (1N) to reduce the pH of the sample to 2.0 - 2.5. Any negative NP values are corrected to 0.

The calculation of Pyrite content assumes that all oxidisable sulphides present in the sample are pyrite. This may not be the case. The calculation may be an overesitimate when other sulphides such as Barite (Barium Sulphate) are present.

WATERS

Please note we are not a UK Drinking Water Inspectorate (DWI) Approved Laboratory .

ISO17025 accreditation applies to surface water and groundwater and usually one other matrix which is analysis specific, any other liquids are outside our scope of accreditation.

As surface waters require different sample preparation to groundwaters the laboratory must be informed of the water type when submitting samples.

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

STACK EMISSIONS

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation for Dioxins and Furans and Dioxin like PCBs has been performed on XAD-2 Resin, only samples which use this resin will be within our MCERTS scope.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

DEVIATING SAMPLES

All samples should be submitted to the laboratory in suitable containers with sufficient ice packs to sustain an appropriate temperature for the requested analysis. The temperature of sample receipt is recorded on the confirmation schedules in order that the client can make an informed decision as to whether testing should still be undertaken.

SURROGATES

Surrogate compounds are added during the preparation process to monitor recovery of analytes. However low recovery in soils is often due to peat, clay or other organic rich matrices. For waters this can be due to oxidants, surfactants, organic rich sediments or remediation fluids. Acceptable limits for most organic methods are 70 - 130% and for VOCs are 50 - 150%. When surrogate recoveries are outside the performance criteria but the associated AQC passes this is assumed to be due to matrix effect. Results are not surrogate corrected.

DILUTIONS

A dilution suffix indicates a dilution has been performed and the reported result takes this into account. No further calculation is required.

BLANKS

Where analytes have been found in the blank, the sample will be treated in accordance with our laboratory procedure for dealing with contaminated blanks.

NOTE

Data is only reported if the laboratory is confident that the data is a true reflection of the samples analysed. Data is only reported as accredited when all the requirements of our Quality System have been met. In certain circumstances where all the requirements of the Quality System have not been met, for instance if the associated AQC has failed, the reason is fully investigated and documented. The sample data is then evaluated alongside the other quality control checks performed during analysis to determine its suitability. Following this evaluation, provided the sample results have not been effected, the data is reported but accreditation is removed. It is a requirement of our Accreditation Body for data not reported as accredited to be considered indicative only, but this does not mean the data is not valid.
Where possible, and if requested, samples will be re-extracted and a revised report issued with accredited results. Please do not hesitate to contact the laboratory if further details are required of the circumstances which have led to the removal of accreditation.
Laboratory records are kept for a period of no less than 6 years.

REPORTS FROM THE SOUTH AFRICA LABORATORY

Any method number not prefixed with SA has been undertaken in our UK laboratory unless reported as subcontracted.

Measurement Uncertainty

Measurement uncertainty defines the range of values that could reasonably be attributed to the measured quantity. This range of values has not been included within the reported results. Uncertainty expressed as a percentage can be provided upon request.

Customer Provided Information

Sample ID and depth is information provided by the customer.

ABBREVIATIONS and ACRONYMS USED

#	ISO17025 (UKAS Ref No. 4225) accredited - UK.
SA	ISO17025 (SANAS Ref No.T0729) accredited - South Africa
B	Indicates analyte found in associated method blank.
DR	Dilution required.
M	MCERTS accredited.
NA	Not applicable
NAD	No Asbestos Detected.
ND	None Detected (usually refers to VOC and/SVOC TICs).
NDP	No Determination Possible
SS	Calibrated against a single substance
SV	Surrogate recovery outside performance criteria. This may be due to a matrix effect.
W	Results expressed on as received basis.
+	AQC failure, accreditation has been removed from this result, if appropriate, see 'Note' on previous page.
>>	Results above quantitative calibration range. The result should be considered the minimum value and is indicative only. The actual result could be significantly higher.
*	Analysis subcontracted to an Element Materials Technology approved laboratory.
AD	Samples are dried at 35°C ±5°C
CO	Suspected carry over
LOD/LOR	Limit of Detection (Limit of Reporting) in line with ISO 17025 and MCERTS
ME	Matrix Effect
NFD	No Fibres Detected
BS	AQC Sample
LB	Blank Sample
N	Client Sample
TB	Trip Blank Sample
OC	Outside Calibration Range
AA	x5 Dilution

HWOL ACRONYMS AND OPERATORS USED

HS	Headspace Analysis.
EH	Extractable Hydrocarbons - i.e. everything extracted by the solvent.
CU	Clean-up - e.g. by florisil, silica gel.
1D	GC - Single coil gas chromatography.
Total	Aliphatics & Aromatics.
AL	Aliphatics only.
AR	Aromatics only.
2D	GC-GC - Double coil gas chromatography.
#1	EH_Total but with humics mathematically subtracted
#2	EU_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
MS	Mass Spectrometry.

EMT Job No: 23/15028

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/SANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
PM4	Gravimetric measurement of Natural Moisture Content and % Moisture Content at either 35°C or 105°C. Calculation based on ISO 11465:1993(E) and BS1377-2:1990.	PM0	No preparation is required.			AR	
TM4	Modified USEPA 8270D v5:2014 method for the solvent extraction and determination of PAHs by GC-MS.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.			AR	Yes
TM4	Modified USEPA 8270D v5:2014 method for the solvent extraction and determination of PAHs by GC-MS.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.	Yes		AR	Yes
TM4	Modified USEPA 8270D v5:2014 method for the solvent extraction and determination of PAHs by GC-MS.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.	Yes	Yes	AR	Yes
TM5	Modified 8015B v2:1996 method for the determination of solvent Extractable Petroleum Hydrocarbons (EPH) within the range C8-C40 by GCFID. For waters the solvent extracts dissolved phase plus a sheen if present.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.	Yes	Yes	AR	Yes
TM5	Modified 8015B v2:1996 method for the determination of solvent Extractable Petroleum Hydrocarbons (EPH) within the range C8-C40 by GCFID. For waters the solvent extracts dissolved phase plus a sheen if present.	PM8/PM16	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required/Fractionation into aliphatic and aromatic fractions using a Rapid Trace SPE.	Yes		AR	Yes
TM5	Modified 8015B v2:1996 method for the determination of solvent Extractable Petroleum Hydrocarbons (EPH) within the range C8-C40 by GCFID. For waters the solvent extracts dissolved phase plus a sheen if present.	PM8/PM16	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required/Fractionation into aliphatic and aromatic fractions using a Rapid Trace SPE.	Yes	Yes	AR	Yes
TM5/TM36	please refer to TM5 and TM36 for method details	PM8/PM12/PM16	please refer to PM8/PM16 and PM12 for method details			AR	Yes
TM5/TM36	please refer to TM5 and TM36 for method details	PM8/PM12/PM16	please refer to PM8/PM16 and PM12 for method details	Yes		AR	Yes
PM13	A visual examination of the solid sample is carried out to ascertain sample make up, colour and any other inclusions. This is not a geotechnical description.	PM0	No preparation is required.			AR	No

EMT Job No: 23/15028

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/SANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
TM15	Modified USEPA 8260B v2:1996. Quantitative Determination of Volatile Organic Compounds (VOCs) by Headspace GC-MS.	PM10	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.			AR	Yes
TM15	Modified USEPA 8260B v2:1996. Quantitative Determination of Volatile Organic Compounds (VOCs) by Headspace GC-MS.	PM10	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.	Yes		AR	Yes
TM15	Modified USEPA 8260B v2:1996. Quantitative Determination of Volatile Organic Compounds (VOCs) by Headspace GC-MS.	PM10	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.	Yes	Yes	AR	Yes
TM17	Modified US EPA method 8270D v5:2014. Determination of specific Polychlorinated Biphenyl congeners by GC-MS.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.	Yes		AR	Yes
TM21	Modified BS 7755-3:1995, ISO10694:1995 Determination of Total Organic Carbon or Total Carbon by combustion in an Eltra TOC furnace/analyser in the presence of oxygen. The CO2 generated is quantified using infra-red detection. Organic Matter (SOM) calculated as per EA MCERTS Chemical Testing of Soil, March 2012 v4.	PM24	Preparation of Soil and Marine Sediment Samples for Total Organic Carbon.	Yes		AD	Yes
TM26	Determination of phenols by Reversed Phased High Performance Liquid Chromatography and Electro-Chemical Detection.	PM21B	As Received samples are extracted in Methanol: Water (60:40) by reciprocal shaker.			AR	Yes
TM30	Determination of Trace Metals by ICP-OES (Inductively Coupled Plasma – Optical Emission Spectrometry): WATERS by Modified USEPA Method 200.7, Rev. 4.4, 1994; Modified EPA Method 6010B, Rev.2, Dec 1996; Modified BS EN ISO 11885:2009: SOILS by Modified USEP 6010B, Rev.2, Dec.1996; Modified EPA Method 3050B, Rev.2, Dec.1996	PM15	Acid digestion of dried and ground solid samples using Aqua Regia refluxed at 112.5 °C. Samples containing asbestos are not dried and ground.	Yes	Yes	AD	Yes
TM36	Modified US EPA method 8015B v2:1996. Determination of Gasoline Range Organics (GRO) in the carbon chain range of C4-12 by headspace GC-FID. MTBE by GCFID co-elutes with 3-methylpentane if present and therefore can give a false positive. Positive MTBE results will be re-run using GC-MS to double check, when requested.	PM12	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.			AR	Yes
TM36	Modified US EPA method 8015B v2:1996. Determination of Gasoline Range Organics (GRO) in the carbon chain range of C4-12 by headspace GC-FID. MTBE by GCFID co-elutes with 3-methylpentane if present and therefore can give a false positive. Positive MTBE results will be re-run using GC-MS to double check, when requested.	PM12	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.	Yes		AR	Yes
TM36	Modified US EPA method 8015B v2:1996. Determination of Gasoline Range Organics (GRO) in the carbon chain range of C4-12 by headspace GC-FID. MTBE by GCFID co-elutes with 3-methylpentane if present and therefore can give a false positive. Positive MTBE results will be re-run using GC-MS to double check, when requested.	PM12	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.	Yes	Yes	AR	Yes

EMT Job No: 23/15028

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/SANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) – All anions comparable to BS ISO 15923-1: 2013l	PM20	Extraction of dried and ground or as received samples with deionised water in a 2:1 water to solid ratio using a reciprocal shaker for all analytes except hexavalent chromium. Extraction of as received sample using 10:1 ratio of 0.2M sodium hydroxide to soil for hexavalent chromium using a reciprocal shaker.	Yes		AR	Yes
TM50	Acid soluble sulphate (Total Sulphate) analysed by ICP-OES	PM29	A hot hydrochloric acid digest is performed on a dried and ground sample, and the resulting liquor is analysed.	Yes	Yes	AD	Yes
TM65	Asbestos Bulk Identification method based on HSG 248 Second edition (2021)	PM42	Modified SCA Blue Book V.12 draft 2017 and WM3 1st Edition v1.1:2018. Solid samples undergo a thorough visual inspection for asbestos fibres prior to asbestos identification using TM065.	Yes		AR	
TM73	Modified US EPA methods 150.1 (1982) and 9045D Rev. 4 - 2004) and BS1377-3:1990. Determination of pH by Metrohm automated probe analyser.	PM11	Extraction of as received solid samples using one part solid to 2.5 parts deionised water.	Yes	Yes	AR	No
TM89	Modified USEPA method OIA-1667 (1999). Determination of cyanide by Flow Injection Analyser. Where WAD cyanides are required a Ligand displacement step is carried out before analysis.	PM45	As received solid samples are extracted with 1M NaOH by orbital shaker for Cyanide, Sulphide and Thiocyanate analysis.	Yes	Yes	AR	Yes
TM107	Determination of Sulphide/Thiocyanate by Skalar Continuous Flow Analyser	PM45	As received solid samples are extracted with 1M NaOH by orbital shaker for Cyanide, Sulphide and Thiocyanate analysis.			AR	Yes
TM15_A	Modified USEPA 8260B v2:1996. Quantitative Determination of Volatile Organic Compounds, Vinyl Chloride & Styrene by Headspace GC-MS.	PM10	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.			AR	Yes

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United Kingdom
SY3 5HJ

Attention :	Esteban Forero
Date :	22nd September, 2023
Your reference :	406.064893.00001
Our reference :	Test Report 23/15028 Batch 1 Schedule B
Location :	Llangefni
Date samples received :	12th September, 2023
Status :	Final Report
Issue :	1

Thirty five samples were received for analysis on 12th September, 2023 of which two were scheduled for analysis. Please find attached our Test Report which should be read with notes at the end of the report and should include all sections if reproduced. Interpretations and opinions are outside the scope of any accreditation, and all results relate only to samples supplied.
All analysis is carried out on as received samples and reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected.

The greenhouse gas emissions generated (in Carbon – Co2e) to obtain the results in this report are estimated as:

Scope 1&2 emissions - 1.882 kg of CO2

Scope 1&2&3 emissions - 4.449 kg of CO2

Authorised By:

Paul Boden BSc
Senior Project Manager

Client Name: SLR Consulting Ltd
Reference: 406.064893.00001
Location: Llangefni
Contact: Esteban Forero
EMT Job No: 23/15028

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

EMT Sample No.	94-96	108-111											
Sample ID	BH16	BH5											
Depth	0.90-1.10	2.40											
COC No / misc													
Containers	V J T	V J T											
Sample Date	07/09/2023	07/09/2023											
Sample Type	Clay	Clay											
Batch Number	1	1											
Date of Receipt	12/09/2023	12/09/2023											

Please see attached notes for all abbreviations and acronyms

											LOD/LOR	Units	Method No.
% Passing 75mm	100	100									<0	%	TM202/PM0
% Passing 63mm	100	100									<0	%	TM202/PM0
% Passing 50mm	100	100									<0	%	TM202/PM0
% Passing 37.5mm	100	100									<0	%	TM202/PM0
% Passing 28mm	100	100									<0	%	TM202/PM0
% Passing 20mm	100	100									<0	%	TM202/PM0
% Passing 14mm	100	98									<0	%	TM202/PM0
% Passing 10mm	98	88									<0	%	TM202/PM0
% Passing 6.3mm	94	83									<0	%	TM202/PM0
% Passing 5mm	93	79									<0	%	TM202/PM0
% Passing 3.35mm	90	73									<0	%	TM202/PM0
% Passing 2mm	87	67									<0	%	TM202/PM0
% Passing 1.18mm	84	61									<0	%	TM202/PM0
% Passing 600um	80	54									<0	%	TM202/PM0
% Passing 425um	77	51									<0	%	TM202/PM0
% Passing 300um	75	48									<0	%	TM202/PM0
% Passing 212um	72	45									<0	%	TM202/PM0
% Passing 150um	69	43									<0	%	TM202/PM0
% Passing 63um	61	34									<0	%	TM202/PM0
% Passing <63um to 20um	51	29									<0	%	TM202/PM0
% Passing <20um to 6um	41	25									<0	%	TM202/PM0
% Passing <6um to 2um	24	17									<0	%	TM202/PM0
% Passing <2um	0	0									<0	%	TM202/PM0
Cobbles (>75mm to 63mm)	0.0	0.0									<0.0	%	TM202/PM0
Gravel (<63mm to 2mm)	12.9	33.0									<0.0	%	TM202/PM0
Sand (<2mm to 63um)	26.5	32.8									<0.0	%	TM202/PM0
Silt (<63um to 2um)	36.6	17.2									<0.0	%	TM202/PM0
Clay (<2um)	24.0	17.0									<0.0	%	TM202/PM0

Element Materials Technology

Notification of Deviating Samples

Client Name: SLR Consulting Ltd
Reference: 406.064893.00001
Location: Llangefni
Contact: Esteban Forero

EMT Job No.	Batch	Sample ID	Depth	EMT Sample No.	Analysis	Reason
No deviating sample report results for job 23/15028						

Please note that only samples that are deviating are mentioned in this report. If no samples are listed it is because none were deviating. Only analyses which are accredited are recorded as deviating if set criteria are not met.
It is a requirement under ISO 17025 that we inform clients if samples are deviating i.e. outside what is expected. A deviating sample indicates that the sample 'may' be compromised but not necessarily will be compromised. The result is still accredited and our analytical reports will still show accreditation on the relevant analytes.

NOTES TO ACCOMPANY ALL SCHEDULES AND REPORTS

EMT Job No.: 23/15028

SOILS and ASH

Please note we are only MCERTS accredited (UK soils only) for sand, loam and clay and any other matrix is outside our scope of accreditation.

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation has been performed on clay, sand and loam, only samples that are predominantly these matrices, or combinations of them will be within our MCERTS scope. If samples are not one of a combination of the above matrices they will not be marked as MCERTS accredited.

It is assumed that you have taken representative samples on site and require analysis on a representative subsample. Stones will generally be included unless we are requested to remove them.

All samples will be discarded one month after the date of reporting, unless we are instructed to the contrary. Asbestos samples are retained for 6 months.

If you have not already done so, please send us a purchase order if this is required by your company.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

All analysis is reported on a dry weight basis unless stated otherwise. Limits of detection for analyses carried out on as received samples are not moisture content corrected. Results are not surrogate corrected. Samples are dried at 35°C ±5°C unless otherwise stated. Moisture content for CEN Leachate tests are dried at 105°C ±5°C. Ash samples are dried at 37°C ±5°C.

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

Where a CEN 10:1 ZERO Headspace VOC test has been carried out, a 10:1 ratio of water to wet (as received) soil has been used.

% Asbestos in Asbestos Containing Materials (ACMs) is determined by reference to HSG 264 The Survey Guide - Appendix 2 : ACMs in buildings listed in order of ease of fibre release.

Sufficient amount of sample must be received to carry out the testing specified. Where an insufficient amount of sample has been received the testing may not meet the requirements of our accredited methods, as such accreditation may be removed.

Negative Neutralization Potential (NP) values are obtained when the volume of NaOH (0.1N) titrated (pH 8.3) is greater than the volume of HCl (1N) to reduce the pH of the sample to 2.0 - 2.5. Any negative NP values are corrected to 0.

The calculation of Pyrite content assumes that all oxidisable sulphides present in the sample are pyrite. This may not be the case. The calculation may be an overesitimate when other sulphides such as Barite (Barium Sulphate) are present.

WATERS

Please note we are not a UK Drinking Water Inspectorate (DWI) Approved Laboratory .

ISO17025 accreditation applies to surface water and groundwater and usually one other matrix which is analysis specific, any other liquids are outside our scope of accreditation.

As surface waters require different sample preparation to groundwaters the laboratory must be informed of the water type when submitting samples.

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

STACK EMISSIONS

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation for Dioxins and Furans and Dioxin like PCBs has been performed on XAD-2 Resin, only samples which use this resin will be within our MCERTS scope.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

DEVIATING SAMPLES

All samples should be submitted to the laboratory in suitable containers with sufficient ice packs to sustain an appropriate temperature for the requested analysis. The temperature of sample receipt is recorded on the confirmation schedules in order that the client can make an informed decision as to whether testing should still be undertaken.

SURROGATES

Surrogate compounds are added during the preparation process to monitor recovery of analytes. However low recovery in soils is often due to peat, clay or other organic rich matrices. For waters this can be due to oxidants, surfactants, organic rich sediments or remediation fluids. Acceptable limits for most organic methods are 70 - 130% and for VOCs are 50 - 150%. When surrogate recoveries are outside the performance criteria but the associated AQC passes this is assumed to be due to matrix effect. Results are not surrogate corrected.

DILUTIONS

A dilution suffix indicates a dilution has been performed and the reported result takes this into account. No further calculation is required.

BLANKS

Where analytes have been found in the blank, the sample will be treated in accordance with our laboratory procedure for dealing with contaminated blanks.

NOTE

Data is only reported if the laboratory is confident that the data is a true reflection of the samples analysed. Data is only reported as accredited when all the requirements of our Quality System have been met. In certain circumstances where all the requirements of the Quality System have not been met, for instance if the associated AQC has failed, the reason is fully investigated and documented. The sample data is then evaluated alongside the other quality control checks performed during analysis to determine its suitability. Following this evaluation, provided the sample results have not been effected, the data is reported but accreditation is removed. It is a requirement of our Accreditation Body for data not reported as accredited to be considered indicative only, but this does not mean the data is not valid.
Where possible, and if requested, samples will be re-extracted and a revised report issued with accredited results. Please do not hesitate to contact the laboratory if further details are required of the circumstances which have led to the removal of accreditation.
Laboratory records are kept for a period of no less than 6 years.

REPORTS FROM THE SOUTH AFRICA LABORATORY

Any method number not prefixed with SA has been undertaken in our UK laboratory unless reported as subcontracted.

Measurement Uncertainty

Measurement uncertainty defines the range of values that could reasonably be attributed to the measured quantity. This range of values has not been included within the reported results. Uncertainty expressed as a percentage can be provided upon request.

Customer Provided Information

Sample ID and depth is information provided by the customer.

ABBREVIATIONS and ACRONYMS USED

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M	MCERTS accredited.
NA	Not applicable
NAD	No Asbestos Detected.
ND	None Detected (usually refers to VOC and/SVOC TICs).
NDP	No Determination Possible
SS	Calibrated against a single substance
SV	Surrogate recovery outside performance criteria. This may be due to a matrix effect.
W	Results expressed on as received basis.
+	AQC failure, accreditation has been removed from this result, if appropriate, see 'Note' on previous page.
>>	Results above quantitative calibration range. The result should be considered the minimum value and is indicative only. The actual result could be significantly higher.
*	Analysis subcontracted to an Element Materials Technology approved laboratory.
AD	Samples are dried at 35°C ±5°C
CO	Suspected carry over
LOD/LOR	Limit of Detection (Limit of Reporting) in line with ISO 17025 and MCERTS
ME	Matrix Effect
NFD	No Fibres Detected
BS	AQC Sample
LB	Blank Sample
N	Client Sample
TB	Trip Blank Sample
OC	Outside Calibration Range

HWOL ACRONYMS AND OPERATORS USED

HS	Headspace Analysis.
EH	Extractable Hydrocarbons - i.e. everything extracted by the solvent.
CU	Clean-up - e.g. by florisil, silica gel.
1D	GC - Single coil gas chromatography.
Total	Aliphatics & Aromatics.
AL	Aliphatics only.
AR	Aromatics only.
2D	GC-GC - Double coil gas chromatography.
#1	EH_Total but with humics mathematically subtracted
#2	EU_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
MS	Mass Spectrometry.

EMT Job No: 23/15028

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/SANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
TM202	Particle Size Distribution (PSD) based on ISO 11277 3rd Ed 2020-04 carried out by sieving for >63um fractions and pipette sedimentation for <63um fractions. Assumed particle density 2.65Mg/m3.	PM0	No preparation is required.			AD	Yes

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Attention :	Esteban Forero
Date :	19th September, 2023
Your reference :	406.064893.00001
Our reference :	Test Report 23/15028 Batch 1 Schedule C
Location :	Llangefni
Date samples received :	12th September, 2023
Status :	Final Report
Issue :	1

Thirty five samples were received for analysis on 12th September, 2023 of which three were scheduled for analysis. Please find attached our Test Report which should be read with notes at the end of the report and should include all sections if reproduced. Interpretations and opinions are outside the scope of any accreditation, and all results relate only to samples supplied.
All analysis is carried out on as received samples and reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected.

The greenhouse gas emissions generated (in Carbon – Co2e) to obtain the results in this report are estimated as:

Scope 1&2 emissions - 4.489 kg of CO2

Scope 1&2&3 emissions - 10.608 kg of CO2

Authorised By:

Simon Gomery BSc
Senior Project Manager

Element Materials Technology Environmental UK Limited
Registered in England and Wales
Registered Office: 3rd Floor Davidson Building, 5 Southampton Street, London WC2E 7HA
Company Registration No: 11371415

Client Name: SLR Consulting Ltd
Reference: 406.064893.00001
Location: Llangefni
Contact: Esteban Forero
EMT Job No: 23/15028

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

Please see attached notes for all abbreviations and acronyms

EMT Sample No.	130-133												
Sample ID	SKIP												
Depth													
COC No / misc													
Containers	V J T												
Sample Date	08/09/2023												
Sample Type	Clay												
Batch Number	1												
Date of Receipt	12/09/2023												
											LOD/LOR	Units	Method No.
MTBE #	<0.005										<0.005	mg/kg	TM36/PM12
Benzene #	<0.005										<0.005	mg/kg	TM36/PM12
Toluene #	<0.005										<0.005	mg/kg	TM36/PM12
Ethylbenzene #	<0.005										<0.005	mg/kg	TM36/PM12
m/p-Xylene #	<0.005										<0.005	mg/kg	TM36/PM12
o-Xylene #	<0.005										<0.005	mg/kg	TM36/PM12
Xylenes (sum of isomers) #	<0.01										<0.01	mg/kg	TM36/PM12
Mineral Oil (C10-C40) (EH_CU_1D_AL)	<30										<30	mg/kg	TM5/PM8/PM16
Total Organic Carbon #	0.32										<0.02	%	TM21/PM24
ANC at pH4	0.08										<0.03	mol/kg	TM77/PM0
ANC at pH7	<0.03										<0.03	mol/kg	TM77/PM0
Loss on Ignition #	2.4										<1.0	%	TM22/PM0

Element Materials Technology

Client Name: SLR Consulting Ltd
Reference: 406.064893.00001
Location: Llangefni
Contact: Esteban Forero
EMT Job No: 23/15028

Report : CEN 10:1 1 Batch

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

EMT Sample No.	130-133												
Sample ID	SKIP												
Depth													
COC No / misc													
Containers	V J T												
Sample Date	08/09/2023												
Sample Type	Clay												
Batch Number	1												
Date of Receipt	12/09/2023												

Please see attached notes for all abbreviations and acronyms

											LOD/LOR	Units	Method No.
Mass of raw test portion	0.1114											kg	NONE/PM17
Mass of dried test portion	0.09											kg	NONE/PM17

CEN 10:1 LEACHATE RESULTS BS EN 12547-2

Mass of sample taken (kg)	0.1114	Moisture Content Ratio (%) =	24.2
Mass of dry sample (kg) =	0.09	Dry Matter Content Ratio (%) =	80.5
Particle Size <4mm =	>95%		

		Landfill Waste Acceptance Criteria Limits		
EMT Job No	**23/15028**			
Sample No	**132**			
Client Sample No	**SKIP**	**Inert Waste Landfill**	**Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill**	**Hazardous Waste Landfill**
Depth/Other				
Sample Date	**08/09/2023**			
Batch No	**1**			
Solid Waste Analysis				
Total Organic Carbon (%)	0.32	3	5	6
Loss on Ignition (%)	2.4	-	-	10
Sum of BTEX (mg/kg)	<0.025	6	-	-
Sum of 7 PCBs (mg/kg)	-	1	-	-
Mineral Oil (mg/kg) (EH_CU_1D_AL)	<30	500	-	-
PAH Sum of 17(mg/kg)	-	100	-	-
pH (pH Units)	-	-	>6	-
ANC to pH 7 (mol/kg)	<0.03	-	to be evaluated	to be evaluated
ANC to pH 4 (mol/kg)	0.08	-	to be evaluated	to be evaluated

Eluate Analysis	**10:1 conc^{n} leached**		**Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg**		
	C_{10}	**A_{10}**			
	mg/l	**mg/kg**	**mg/kg**		
Arsenic	<0.0025	<0.025	0.5	2	25
Barium	0.008	0.08	20	100	300
Cadmium	<0.0005	<0.005	0.04	1	5
Chromium	<0.0015	<0.015	0.5	10	70
Copper	<0.007	<0.07	2	50	100
Mercury	<0.001	<0.01	0.01	0.2	2
Molybdenum	0.005	0.05	0.5	10	30
Nickel	<0.002	<0.02	0.4	10	40
Lead	<0.005	<0.05	0.5	10	50
Antimony	<0.002	<0.02	0.06	0.7	5
Selenium	<0.003	<0.03	0.1	0.5	7
Zinc	<0.003	<0.03	4	50	200
Chloride	2.4	24	800	15000	25000
Fluoride	0.4	4	10	150	500
Sulphate as SO4	<0.5	<5	1000	20000	50000
Total Dissolved Solids	70	700	4000	60000	100000
Phenol	<0.01	<0.1	1	-	-
Dissolved Organic Carbon	3	30	500	800	1000

All solid results are expressed on a dry weight basis unless stated otherwise.

Client Name: SLR Consulting Ltd
Reference: 406.064893.00001
Location: Llangefni
Contact: Esteban Forero

Note:

Asbestos Screen analysis is carried out in accordance with our documented in-house methods PM042 and TM065 and HSG 248 by Stereo and Polarised Light Microscopy using Dispersion Staining Techniques and is covered by our UKAS accreditation. Detailed Gravimetric Quantification and PCOM Fibre Analysis is carried out in accordance with our documented in-house methods PM042 and TM131 and HSG 248 using Stereo and Polarised Light Microscopy and Phase Contrast Optical Microscopy (PCOM). Asbestos sub-samples are retained for not less than 6 months from the date of analysis unless specifically requested.

The LOQ of the Asbestos Quantification is 0.001% dry fibre of dry mass of sample.

Where the sample is not taken by a Element Materials Technology consultant, Element Materials Technology cannot be responsible for inaccurate or unrepresentative sampling.

Where trace asbestos is reported the amount of asbestos will be <0.1%.

EMT Job No.	Batch	Sample ID	Depth	EMT Sample No.	Analyst Name	Date Of Analysis	Analysis	Result
23/15028	1	BH12	0.20-0.40	76	Remigiusz Blichowski	13/09/2023	**Total ACM Gravimetric Quantification (% Asb)**	<0.001 (mass %)
					Remigiusz Blichowski	13/09/2023	**Total Detailed Gravimetric Quantification (% Asb)**	NDP (mass %)
					Remigiusz Blichowski	13/09/2023	**Total Gravimetric Quantification (ACM + Detailed) (% Asb)**	NDP (mass %)
					Remigiusz Blichowski	13/09/2023	**Asbestos PCOM Quantification (Fibres)**	NDP (mass %)
					Remigiusz Blichowski	13/09/2023	**Asbestos Gravimetric & PCOM Total**	NDP (mass %)
23/15028	1	BH16	0.60	92	Remigiusz Blichowski	13/09/2023	**Total ACM Gravimetric Quantification (% Asb)**	<0.001 (mass %)
					Remigiusz Blichowski	13/09/2023	**Total Detailed Gravimetric Quantification (% Asb)**	NDP (mass %)
					Remigiusz Blichowski	13/09/2023	**Total Gravimetric Quantification (ACM + Detailed) (% Asb)**	NDP (mass %)
					Remigiusz Blichowski	13/09/2023	**Asbestos PCOM Quantification (Fibres)**	NDP (mass %)
					Remigiusz Blichowski	13/09/2023	**Asbestos Gravimetric & PCOM Total**	NDP (mass %)
23/15028	1	SKIP		133	Emily Anderton	13/09/2023	**General Description (Bulk Analysis)**	Brown soil with stones
					Emily Anderton	13/09/2023	**Asbestos Fibres**	NAD
					Emily Anderton	13/09/2023	**Asbestos ACM**	NAD
					Emily Anderton	13/09/2023	**Asbestos Type**	NAD

Client Name: SLR Consulting Ltd
Reference: 406.064893.00001
Location: Llangefni
Contact: Esteban Forero

Matrix : Solid

EMT Job No.	Batch	Sample ID	Depth	EMT Sample No.	Method No.	NDP Reason
23/15028	1	BH12	0.20-0.40	74-77	TM131/PM42	Not necessary to carry out analysis
23/15028	1	BH16	0.60	90-93	TM131/PM42	Not necessary to carry out analysis

Element Materials Technology

Notification of Deviating Samples

Client Name: SLR Consulting Ltd
Reference: 406.064893.00001
Location: Llangefni
Contact: Esteban Forero

EMT Job No.	Batch	Sample ID	Depth	EMT Sample No.	Analysis	Reason
No deviating sample report results for job 23/15028						

Please note that only samples that are deviating are mentioned in this report. If no samples are listed it is because none were deviating. Only analyses which are accredited are recorded as deviating if set criteria are not met.
It is a requirement under ISO 17025 that we inform clients if samples are deviating i.e. outside what is expected. A deviating sample indicates that the sample 'may' be compromised but not necessarily will be compromised. The result is still accredited and our analytical reports will still show accreditation on the relevant analytes.

NOTES TO ACCOMPANY ALL SCHEDULES AND REPORTS

EMT Job No.: 23/15028

SOILS and ASH

Please note we are only MCERTS accredited (UK soils only) for sand, loam and clay and any other matrix is outside our scope of accreditation.

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation has been performed on clay, sand and loam, only samples that are predominantly these matrices, or combinations of them will be within our MCERTS scope. If samples are not one of a combination of the above matrices they will not be marked as MCERTS accredited.

It is assumed that you have taken representative samples on site and require analysis on a representative subsample. Stones will generally be included unless we are requested to remove them.

All samples will be discarded one month after the date of reporting, unless we are instructed to the contrary. Asbestos samples are retained for 6 months.

If you have not already done so, please send us a purchase order if this is required by your company.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

All analysis is reported on a dry weight basis unless stated otherwise. Limits of detection for analyses carried out on as received samples are not moisture content corrected. Results are not surrogate corrected. Samples are dried at 35°C ±5°C unless otherwise stated. Moisture content for CEN Leachate tests are dried at 105°C ±5°C. Ash samples are dried at 37°C ±5°C.

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

Where a CEN 10:1 ZERO Headspace VOC test has been carried out, a 10:1 ratio of water to wet (as received) soil has been used.

% Asbestos in Asbestos Containing Materials (ACMs) is determined by reference to HSG 264 The Survey Guide - Appendix 2 : ACMs in buildings listed in order of ease of fibre release.

Sufficient amount of sample must be received to carry out the testing specified. Where an insufficient amount of sample has been received the testing may not meet the requirements of our accredited methods, as such accreditation may be removed.

Negative Neutralization Potential (NP) values are obtained when the volume of NaOH (0.1N) titrated (pH 8.3) is greater than the volume of HCl (1N) to reduce the pH of the sample to 2.0 - 2.5. Any negative NP values are corrected to 0.

The calculation of Pyrite content assumes that all oxidisable sulphides present in the sample are pyrite. This may not be the case. The calculation may be an overesitimate when other sulphides such as Barite (Barium Sulphate) are present.

WATERS

Please note we are not a UK Drinking Water Inspectorate (DWI) Approved Laboratory .

ISO17025 accreditation applies to surface water and groundwater and usually one other matrix which is analysis specific, any other liquids are outside our scope of accreditation.

As surface waters require different sample preparation to groundwaters the laboratory must be informed of the water type when submitting samples.

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

STACK EMISSIONS

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation for Dioxins and Furans and Dioxin like PCBs has been performed on XAD-2 Resin, only samples which use this resin will be within our MCERTS scope.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

DEVIATING SAMPLES

All samples should be submitted to the laboratory in suitable containers with sufficient ice packs to sustain an appropriate temperature for the requested analysis. The temperature of sample receipt is recorded on the confirmation schedules in order that the client can make an informed decision as to whether testing should still be undertaken.

SURROGATES

Surrogate compounds are added during the preparation process to monitor recovery of analytes. However low recovery in soils is often due to peat, clay or other organic rich matrices. For waters this can be due to oxidants, surfactants, organic rich sediments or remediation fluids. Acceptable limits for most organic methods are 70 - 130% and for VOCs are 50 - 150%. When surrogate recoveries are outside the performance criteria but the associated AQC passes this is assumed to be due to matrix effect. Results are not surrogate corrected.

DILUTIONS

A dilution suffix indicates a dilution has been performed and the reported result takes this into account. No further calculation is required.

BLANKS

Where analytes have been found in the blank, the sample will be treated in accordance with our laboratory procedure for dealing with contaminated blanks.

NOTE

Data is only reported if the laboratory is confident that the data is a true reflection of the samples analysed. Data is only reported as accredited when all the requirements of our Quality System have been met. In certain circumstances where all the requirements of the Quality System have not been met, for instance if the associated AQC has failed, the reason is fully investigated and documented. The sample data is then evaluated alongside the other quality control checks performed during analysis to determine its suitability. Following this evaluation, provided the sample results have not been effected, the data is reported but accreditation is removed. It is a requirement of our Accreditation Body for data not reported as accredited to be considered indicative only, but this does not mean the data is not valid.
Where possible, and if requested, samples will be re-extracted and a revised report issued with accredited results. Please do not hesitate to contact the laboratory if further details are required of the circumstances which have led to the removal of accreditation.
Laboratory records are kept for a period of no less than 6 years.

REPORTS FROM THE SOUTH AFRICA LABORATORY

Any method number not prefixed with SA has been undertaken in our UK laboratory unless reported as subcontracted.

Measurement Uncertainty

Measurement uncertainty defines the range of values that could reasonably be attributed to the measured quantity. This range of values has not been included within the reported results. Uncertainty expressed as a percentage can be provided upon request.

Customer Provided Information

Sample ID and depth is information provided by the customer.

ABBREVIATIONS and ACRONYMS USED

#	ISO17025 (UKAS Ref No. 4225) accredited - UK.
SA	ISO17025 (SANAS Ref No.T0729) accredited - South Africa
B	Indicates analyte found in associated method blank.
DR	Dilution required.
M	MCERTS accredited.
NA	Not applicable
NAD	No Asbestos Detected.
ND	None Detected (usually refers to VOC and/SVOC TICs).
NDP	No Determination Possible
SS	Calibrated against a single substance
SV	Surrogate recovery outside performance criteria. This may be due to a matrix effect.
W	Results expressed on as received basis.
+	AQC failure, accreditation has been removed from this result, if appropriate, see 'Note' on previous page.
>>	Results above quantitative calibration range. The result should be considered the minimum value and is indicative only. The actual result could be significantly higher.
*	Analysis subcontracted to an Element Materials Technology approved laboratory.
AD	Samples are dried at 35°C ±5°C
CO	Suspected carry over
LOD/LOR	Limit of Detection (Limit of Reporting) in line with ISO 17025 and MCERTS
ME	Matrix Effect
NFD	No Fibres Detected
BS	AQC Sample
LB	Blank Sample
N	Client Sample
TB	Trip Blank Sample
OC	Outside Calibration Range

HWOL ACRONYMS AND OPERATORS USED

HS	Headspace Analysis.
EH	Extractable Hydrocarbons - i.e. everything extracted by the solvent.
CU	Clean-up - e.g. by florisil, silica gel.
1D	GC - Single coil gas chromatography.
Total	Aliphatics & Aromatics.
AL	Aliphatics only.
AR	Aromatics only.
2D	GC-GC - Double coil gas chromatography.
#1	EH_Total but with humics mathematically subtracted
#2	EU_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
MS	Mass Spectrometry.

EMT Job No: 23/15028

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/SANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
PM4	Gravimetric measurement of Natural Moisture Content and % Moisture Content at either 35°C or 105°C. Calculation based on ISO 11465:1993(E) and BS1377-2:1990.	PM0	No preparation is required.			AR	
TM5	Modified 8015B v2:1996 method for the determination of solvent Extractable Petroleum Hydrocarbons (EPH) within the range C8-C40 by GCFID. For waters the solvent extracts dissolved phase plus a sheen if present.	PM8/PM16	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required/Fractionation into aliphatic and aromatic fractions using a Rapid Trace SPE.			AR	Yes
TM20	Modified BS 1377-3:1990/USEPA 160.1/3 (TDS/TS: 1971) Gravimetric determination of Total Dissolved Solids/Total Solids	PM0	No preparation is required.			AR	Yes
TM21	Modified BS 7755-3:1995, ISO10694:1995 Determination of Total Organic Carbon or Total Carbon by combustion in an Eltra TOC furnace/analyser in the presence of oxygen. The CO2 generated is quantified using infra-red detection. Organic Matter (SOM) calculated as per EA MCERTS Chemical Testing of Soil, March 2012 v4.	PM24	Preparation of Soil and Marine Sediment Samples for Total Organic Carbon.	Yes		AD	Yes
TM22	Modified BS1377-3:1990 Gravimetric determination of Loss on Ignition by temperature controlled Muffle Furnace (35C-440C). On request modified ASTM D2974-00 LOI (105C-440C)	PM0	No preparation is required.	Yes		AD	Yes
TM26	Determination of phenols by Reversed Phased High Performance Liquid Chromatography and Electro-Chemical Detection.	PM0	No preparation is required.			AR	Yes
TM36	Modified US EPA method 8015B v2:1996. Determination of Gasoline Range Organics (GRO) in the carbon chain range of C4-12 by headspace GC-FID. MTBE by GCFID co-elutes with 3-methylpentane if present and therefore can give a false positive. Positive MTBE results will be re-run using GC-MS to double check, when requested.	PM12	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.			AR	Yes
TM36	Modified US EPA method 8015B v2:1996. Determination of Gasoline Range Organics (GRO) in the carbon chain range of C4-12 by headspace GC-FID. MTBE by GCFID co-elutes with 3-methylpentane if present and therefore can give a false positive. Positive MTBE results will be re-run using GC-MS to double check, when requested.	PM12	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.	Yes		AR	Yes
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) – All anions comparable to BS ISO 15923-1: 2013l	PM0	No preparation is required.	Yes		AR	Yes
TM60	TC/TOC analysis of Waters by High Temperature Combustion followed by NDIR detection. Based on the following modified standard methods: USEPA 9060A (2002), APHA SMEWW 5310B:1999 22nd Edition, ASTM D 7573, and USEPA 415.1.	PM0	No preparation is required.			AR	Yes

EMT Job No: 23/15028

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/SANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
TM65	Asbestos Bulk Identification method based on HSG 248 Second edition (2021)	PM42	Modified SCA Blue Book V.12 draft 2017 and WM3 1st Edition v1.1:2018. Solid samples undergo a thorough visual inspection for asbestos fibres prior to asbestos identification using TM065.	Yes		AR	
TM77	Modified DDCEN/TS method 15364:2006. Determination of Acid Neutralization Capacity by Metrohm automated probe analyser.	PM0	No preparation is required.			AR	No
TM131	Quantification of Asbestos Fibres and ACM based on HSG 248 Second edition:2021, HSG 264 Second edition:2012, HSE Contract Research Report No.83/1996, MDHS 87:1998, WM3 1st Edition v1.1:2018	PM42	Modified SCA Blue Book V.12 draft 2017 and WM3 1st Edition v1.1:2018. Solid samples undergo a thorough visual inspection for asbestos fibres prior to asbestos identification using TM065.	Yes		AR	Yes
TM170	Determination of Trace Metals by ICP-MS (Inductively Coupled Plasma – Mass Spectrometry): Modified USEPA Method 200.8, Rev. 5.4, 1994; Modified EPA Method 6020A, Rev.1, Feb 2007; Modified BS EN ISO 17294-2:2016	PM14	Preparation of waters and leachates for metals by ICP OES/ICP MS. Samples are filtered for Dissolved metals, and remain unfiltered for Total metals then acidified	Yes		AR	Yes
TM173	Analysis of fluoride by ISE (Ion Selective Electrode) using modified ISE method 9214 - 340.2 (EPA 1998)	PM0	No preparation is required.			AR	Yes
NONE	No Method Code	PM17	Modified method BS EN12457-2:2002 As received solid samples are leached with water in a 10:1 water to soil ratio for 24 hours, the moisture content of the sample is included in the ratio.				
NONE	No Method Code	PM4	Gravimetric measurement of Natural Moisture Content and % Moisture Content at either 35°C or 105°C. Calculation based on ISO 11465:1993(E) and BS1377-2:1990.			AR	

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Attention :	Mark Swain
Date :	28th September, 2023
Your reference :	406.064893.00001
Our reference :	Test Report 23/15704 Batch 1 Schedule A 23/15704 Batch 1 Schedule C
Location :	LLangefni
Date samples received :	23rd September, 2023
Status :	Final Report
Issue :	1

Eighteen samples were received for analysis on 23rd September, 2023 of which eighteen were scheduled for analysis. Please find attached our Test Report which should be read with notes at the end of the report and should include all sections if reproduced. Interpretations and opinions are outside the scope of any accreditation, and all results relate only to samples supplied.
All analysis is carried out on as received samples and reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected.

The greenhouse gas emissions generated (in Carbon – Co2e) to obtain the results in this report are estimated as:

Scope 1&2 emissions - 44.526 kg of CO2

Scope 1&2&3 emissions - 105.227 kg of CO2

Authorised By:

Paul Boden BSc
Senior Project Manager

Element Materials Technology

Client Name: SLR Consulting Ltd
Reference: 406.064893.00001
Location: LLangefni
Contact: Mark Swain
EMT Job No: 23/15704

Report : Liquid

Liquids/products: V=40ml vial, G=glass bottle, P=plastic bottle
$H=H_2SO_4$, Z=ZnAc, N=NaOH, HN=$HN0_3$

EMT Sample No.	1-8	9-16	17-24	25-32	33-40	41-48	49-56	57-64	65-72	73-80	LOD/LOR	Units	Method No.
Sample ID	BH11	BH10	BH1	BH9	BH2	BH8	BH7	BH6	BH12	BH13			
Depth	0.527	0.348	0.471	0.300	0.493	0.592	0.665	1.010	1.193	1.150			
COC No / misc													
Containers	V HNUF HCL Z P G	V HN HCL Z P G	V HN HCL Z P G	V HN HCL Z P G	V HN HCL Z P G	V HNUF HCL Z P G	V HNUF HCL Z P G	V HNUF HCL Z P G	V HNUF HCL Z P G	V HN HCL Z P G			
Sample Date	19/09/2023	19/09/2023	19/09/2023	19/09/2023	19/09/2023	19/09/2023	19/09/2023	19/09/2023	20/09/2023	20/09/2023			
Sample Type	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water			
Batch Number	1	1	1	1	1	1	1	1	1	1			
Date of Receipt	23/09/2023	23/09/2023	23/09/2023	23/09/2023	23/09/2023	23/09/2023	23/09/2023	23/09/2023	23/09/2023	23/09/2023			
PAH MS													
Naphthalene #	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	mg/l	TM4/PM30
Acenaphthylene #	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	mg/l	TM4/PM30
Acenaphthene #	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	0.000008	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	mg/l	TM4/PM30
Fluorene #	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	mg/l	TM4/PM30
Phenanthrene #	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	mg/l	TM4/PM30
Anthracene #	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	mg/l	TM4/PM30
Fluoranthene #	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	0.000015	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	mg/l	TM4/PM30
Pyrene #	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	0.000021	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	mg/l	TM4/PM30
Benzo(a)anthracene #	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	mg/l	TM4/PM30
Chrysene #	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	mg/l	TM4/PM30
Benzo(bk)fluoranthene #	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	mg/l	TM4/PM30
Benzo(a)pyrene #	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	mg/l	TM4/PM30
Indeno(123cd)pyrene #	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	mg/l	TM4/PM30
Dibenzo(ah)anthracene #	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	mg/l	TM4/PM30
Benzo(ghi)perylene #	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	mg/l	TM4/PM30
PAH 16 Total #	<0.000173	<0.000173	<0.000173	<0.000173	<0.000173	<0.000173	<0.000173	<0.000173	<0.000173	<0.000173	<0.000173	mg/l	TM4/PM30
Benzo(b)fluoranthene	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	mg/l	TM4/PM30
Benzo(k)fluoranthene	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	mg/l	TM4/PM30
PAH Surrogate % Recovery	77	78	86	85	82	84	81	80	79	83	<0	%	TM4/PM30
Methyl Tertiary Butyl Ether #	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	mg/l	TM15/PM10
Benzene #	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	mg/l	TM15/PM10
Toluene #	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	mg/l	TM15/PM10
Ethylbenzene #	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	mg/l	TM15/PM10
m/p-Xylene #	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	mg/l	TM15/PM10
o-Xylene #	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	mg/l	TM15/PM10
Total Xylenes #	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	mg/l	TM15/PM10
Surrogate Recovery Toluene D8	97	99	99	100	100	97	96	87	88	110	<0	%	TM15/PM10
Surrogate Recovery 4-Bromofluorobenzene	100	99	100	96	96	95	94	85	87	100	<0	%	TM15/PM10
TPH CWG													
Aliphatics													
>C5-C6 #	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/l	TM36/PM12
>C6-C8 #	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.04	<0.01	<0.01	mg/l	TM36/PM12
>C8-C10 #	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/l	TM36/PM12
>C10-C12 #	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	mg/l	TM5/PM16/PM30
>C12-C16 #	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/l	TM5/PM16/PM30
>C16-C21 #	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/l	TM5/PM16/PM30
>C21-C35 #	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/l	TM5/PM16/PM30
Total aliphatics C5-35 #	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.04	<0.01	<0.01	mg/l	TM5/TM36/PM12/PM16/PM30

Please see attached notes for all abbreviations and acronyms

Element Materials Technology

Client Name: SLR Consulting Ltd
Reference: 406.064893.00001
Location: LLangefni
Contact: Mark Swain
EMT Job No: 23/15704

Report : Liquid

Liquids/products: V=40ml vial, G=glass bottle, P=plastic bottle
H=H_2SO_4, Z=ZnAc, N=NaOH, HN=$HN0_3$

EMT Sample No.	1-8	9-16	17-24	25-32	33-40	41-48	49-56	57-64	65-72	73-80	LOD/LOR	Units	Method No.
Sample ID	BH11	BH10	BH1	BH9	BH2	BH8	BH7	BH6	BH12	BH13			
Depth	0.527	0.348	0.471	0.300	0.493	0.592	0.665	1.010	1.193	1.150			
COC No / misc													
Containers	V HNUF HCL Z P G	V HN HCL Z P G	V HN HCL Z P G	V HN HCL Z P G	V HN HCL Z P G	V HNUF HCL Z P G	V HNUF HCL Z P G	V HNUF HCL Z P G	V HNUF HCL Z P G	V HN HCL Z P G			
Sample Date	19/09/2023	19/09/2023	19/09/2023	19/09/2023	19/09/2023	19/09/2023	19/09/2023	19/09/2023	20/09/2023	20/09/2023			
Sample Type	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water			
Batch Number	1	1	1	1	1	1	1	1	1	1			
Date of Receipt	23/09/2023	23/09/2023	23/09/2023	23/09/2023	23/09/2023	23/09/2023	23/09/2023	23/09/2023	23/09/2023	23/09/2023			
TPH CWG													
Aromatics													
>C5-EC7 #	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/l	TM36/PM12
>EC7-EC8 #	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/l	TM36/PM12
>EC8-EC10 #	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/l	TM36/PM12
>EC10-EC12 #	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	mg/l	TM5/PM16/PM30
>EC12-EC16 #	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/l	TM5/PM16/PM30
>EC16-EC21 #	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/l	TM5/PM16/PM30
>EC21-EC35 #	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/l	TM5/PM16/PM30
Total aromatics C5-35 #	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/l	TM5/TM36/PM12/PM16/PM30
Total aliphatics and aromatics(C5-35) #	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.04	<0.01	<0.01	mg/l	TM5/TM36/PM12/PM16/PM30
Chloride #	11	24	36	43	80	260	56	98	15	88	<0.3	mg/l	TM38/PM0
Nitrate as N #	0.49	0.50	0.83	0.90	0.97	<0.05	11	3.4	0.36	<0.05	<0.05	mg/l	TM38/PM0
Ammoniacal Nitrogen as NH4 #	<0.03	0.26	0.08	0.13	<0.03	12.27	<0.03	0.04	0.11	<0.03	<0.03	mg/l	TM38/PM0
Electrical Conductivity @25C #	350	560	590	660	670	1600	770	1700	590	930	<2	uS/cm	TM76/PM0
pH #	8.0	7.8	7.9	7.8	8.0	7.9	7.8	7.6	7.8	7.5	<0.01	pH units	TM73/PM0
Total Organic Carbon #	<2	<2	3	<2	<2	<2	<2	29_{AA}	<2	<2	<2	mg/l	TM60/PM0
Dissolved Arsenic #	0.0016	0.0012	0.0015	0.002	<0.0009	0.0034	<0.0009	0.0018	<0.0009	<0.0009	<0.0009	mg/l	TM170/PM14
Dissolved Cadmium #	0.00007	<0.00003	<0.00003	0.00003	<0.00003	0.00008	0.00007	0.00004	0.00065	0.0029	<0.00003	mg/l	TM170/PM14
Total Dissolved Chromium #	0.0002	<0.0002	0.008	0.0009	0.0085	0.0039	0.0049	0.0066	0.001	0.0034	<0.0002	mg/l	TM170/PM14
Dissolved Copper #	0.001	<0.001	0.002	0.003	<0.001	0.004	0.003	0.002	0.004	0.015	<0.001	mg/l	TM170/PM14
Dissolved Lead #	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	0.0005	<0.0004	0.0006	0.0075	0.02	<0.0004	mg/l	TM170/PM14
Dissolved Mercury #	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	mg/l	TM170/PM14
Dissolved Nickel #	0.005	0.0038	0.0031	0.0037	0.0013	0.014	0.0032	0.02	0.034	0.096	<0.0002	mg/l	TM170/PM14
Dissolved Selenium #	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	0.0019	<0.0012	0.03	0.002	<0.0012	<0.0012	mg/l	TM170/PM14
Dissolved Zinc #	0.0076	0.0063	0.0034	0.0034	0.0089	0.0047	0.0022	0.0052	0.0054	0.0084	<0.0015	mg/l	TM170/PM14
PCB 28 #	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	mg/l	TM17/PM30
PCB 52 #	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	mg/l	TM17/PM30
PCB 101 #	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	mg/l	TM17/PM30
PCB 118 #	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	mg/l	TM17/PM30
PCB 138 #	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	mg/l	TM17/PM30
PCB 153 #	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	mg/l	TM17/PM30
PCB 180 #	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	mg/l	TM17/PM30
Total 7 PCBs	<0.0007	<0.0007	<0.0007	<0.0007	<0.0007	<0.0007	<0.0007	<0.0007	<0.0007	<0.0007	<0.0007	mg/l	TM17/PM30
Ortho Phosphate as PO4 #	0.24	0.23	<0.06	0.20	0.09	<0.06	0.13	<0.06	<0.06	<0.06	<0.06	mg/l	TM38/PM0
COD (Settled) #	8	11	16	14	<7	<7	<7	<7	12	<7	<7	mg/l	TM57/PM0

Please see attached notes for all abbreviations and acronyms

Client Name: SLR Consulting Ltd
Reference: 406.064893.00001
Location: LLangefni
Contact: Mark Swain
EMT Job No: 23/15704

Report : Liquid

Liquids/products: V=40ml vial, G=glass bottle, P=plastic bottle
$H=H_2SO_4$, Z=ZnAc, N=NaOH, HN=$HN0_3$

Please see attached notes for all abbreviations and acronyms

EMT Sample No.	81-88	89-96	97-104	105-112	113-120	121-128	129-136	137-144			LOD/LOR	Units	Method No.
Sample ID	BH14	BH15	BH5	BH4	BH3	SW-N	SW-M	SW-S					
Depth	1.483	1.505	1.168	1.403	1.052	0	0	0					
COC No / misc													
Containers	V HN HCL Z P G	V HNUF HCL Z P G	V HNUF HCL Z P G	V HNUF HCL Z P G	V HNUF HCL Z P G	V HN HCL Z P G	V HN HCL Z P G	V HN HCL Z P G					
Sample Date	20/09/2023	20/09/2023	20/09/2023	20/09/2023	20/09/2023	20/09/2023	20/09/2023	20/09/2023					
Sample Type	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Surface Water	Surface Water	Surface Water					
Batch Number	1	1	1	1	1	1	1	1					
Date of Receipt	23/09/2023	23/09/2023	23/09/2023	23/09/2023	23/09/2023	23/09/2023	23/09/2023	23/09/2023					
PAH MS													
Naphthalene #	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001			<0.0001	mg/l	TM4/PM30
Acenaphthylene #	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005			<0.000005	mg/l	TM4/PM30
Acenaphthene #	<0.000005	<0.000005	0.000014	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005			<0.000005	mg/l	TM4/PM30
Fluorene #	<0.000005	<0.000005	0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005			<0.000005	mg/l	TM4/PM30
Phenanthrene #	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005			<0.000005	mg/l	TM4/PM30
Anthracene #	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005			<0.000005	mg/l	TM4/PM30
Fluoranthene #	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005			<0.000005	mg/l	TM4/PM30
Pyrene #	<0.000005	<0.000005	<0.000005	<0.000005	0.000047	<0.000005	<0.000005	<0.000005			<0.000005	mg/l	TM4/PM30
Benzo(a)anthracene #	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005			<0.000005	mg/l	TM4/PM30
Chrysene #	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005			<0.000005	mg/l	TM4/PM30
Benzo(bk)fluoranthene #	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008			<0.000008	mg/l	TM4/PM30
Benzo(a)pyrene #	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005			<0.000005	mg/l	TM4/PM30
Indeno(123cd)pyrene #	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005			<0.000005	mg/l	TM4/PM30
Dibenzo(ah)anthracene #	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005			<0.000005	mg/l	TM4/PM30
Benzo(ghi)perylene #	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005			<0.000005	mg/l	TM4/PM30
PAH 16 Total #	<0.000173	<0.000173	<0.000173	<0.000173	<0.000173	<0.000173	<0.000173	<0.000173			<0.000173	mg/l	TM4/PM30
Benzo(b)fluoranthene	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008			<0.000008	mg/l	TM4/PM30
Benzo(k)fluoranthene	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008			<0.000008	mg/l	TM4/PM30
PAH Surrogate % Recovery	80	82	79	77	80	80	80	76			<0	%	TM4/PM30
Methyl Tertiary Butyl Ether #	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001			<0.0001	mg/l	TM15/PM10
Benzene #	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005			<0.0005	mg/l	TM15/PM10
Toluene #	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005			<0.005	mg/l	TM15/PM10
Ethylbenzene #	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001			<0.001	mg/l	TM15/PM10
m/p-Xylene #	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002			<0.002	mg/l	TM15/PM10
o-Xylene #	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001			<0.001	mg/l	TM15/PM10
Total Xylenes #	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003			<0.003	mg/l	TM15/PM10
Surrogate Recovery Toluene D8	110	97	99	98	98	100	94	89			<0	%	TM15/PM10
Surrogate Recovery 4-Bromofluorobenzene	110	96	98	100	98	99	97	88			<0	%	TM15/PM10
TPH CWG													
Aliphatics													
>C5-C6 #	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01			<0.01	mg/l	TM36/PM12
>C6-C8 #	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01			<0.01	mg/l	TM36/PM12
>C8-C10 #	<0.01	<0.01	<0.01	<0.01	0.58	<0.01	<0.01	<0.01			<0.01	mg/l	TM36/PM12
>C10-C12 #	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005			<0.005	mg/l	TM5/PM16/PM30
>C12-C16 #	<0.01	<0.01	<0.01	<0.01	0.13	<0.01	<0.01	<0.01			<0.01	mg/l	TM5/PM16/PM30
>C16-C21 #	<0.01	<0.01	<0.01	<0.01	0.21	<0.01	<0.01	<0.01			<0.01	mg/l	TM5/PM16/PM30
>C21-C35 #	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01			<0.01	mg/l	TM5/PM16/PM30
Total aliphatics C5-35 #	<0.01	<0.01	<0.01	<0.01	0.94	<0.01	<0.01	<0.01			<0.01	mg/l	TM5/TM36/PM12/PM16/PM30

Element Materials Technology

Client Name: SLR Consulting Ltd
Reference: 406.064893.00001
Location: LLangefni
Contact: Mark Swain
EMT Job No: 23/15704

Report : Liquid

Liquids/products: V=40ml vial, G=glass bottle, P=plastic bottle
H=H_2SO_4, Z=ZnAc, N=NaOH, HN=$HN0_3$

EMT Sample No.	81-88	89-96	97-104	105-112	113-120	121-128	129-136	137-144			LOD/LOR	Units	Method No.
Sample ID	BH14	BH15	BH5	BH4	BH3	SW-N	SW-M	SW-S					
Depth	1.483	1.505	1.168	1.403	1.052	0	0	0					
COC No / misc													
Containers	V HN HCL Z P G	V HNUF HCL Z P G	V HNUF HCL Z P G	V HNUF HCL Z P G	V HNUF HCL Z P G	V HN HCL Z P G	V HN HCL Z P G	V HN HCL Z P G					
Sample Date	20/09/2023	20/09/2023	20/09/2023	20/09/2023	20/09/2023	20/09/2023	20/09/2023	20/09/2023					
Sample Type	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Surface Water	Surface Water	Surface Water					
Batch Number	1	1	1	1	1	1	1	1					
Date of Receipt	23/09/2023	23/09/2023	23/09/2023	23/09/2023	23/09/2023	23/09/2023	23/09/2023	23/09/2023					
TPH CWG													
Aromatics													
>C5-EC7 #	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01			<0.01	mg/l	TM36/PM12
>EC7-EC8 #	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01			<0.01	mg/l	TM36/PM12
>EC8-EC10 #	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01			<0.01	mg/l	TM36/PM12
>EC10-EC12 #	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005			<0.005	mg/l	TM5/PM16/PM30
>EC12-EC16 #	<0.01	<0.01	<0.01	<0.01	0.10	<0.01	<0.01	<0.01			<0.01	mg/l	TM5/PM16/PM30
>EC16-EC21 #	<0.01	<0.01	<0.01	<0.01	0.13	<0.01	<0.01	<0.01			<0.01	mg/l	TM5/PM16/PM30
>EC21-EC35 #	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01			<0.01	mg/l	TM5/PM16/PM30
Total aromatics C5-35 #	<0.01	<0.01	<0.01	<0.01	0.23	<0.01	<0.01	<0.01			<0.01	mg/l	TM5/TM36/PM12/PM16/PM30
Total aliphatics and aromatics(C5-35) #	<0.01	<0.01	<0.01	<0.01	1.17	<0.01	<0.01	<0.01			<0.01	mg/l	TM5/TM36/PM12/PM16/PM30
Chloride #	19	120	48	48	99	18	18	18			<0.3	mg/l	TM38/PM0
Nitrate as N #	0.08	0.07	<0.05	1.7	<0.05	0.45	0.43	0.43			<0.05	mg/l	TM38/PM0
Ammoniacal Nitrogen as NH4 #	0.12	2.04	1.18	0.29	<0.03	0.09	0.09	0.09			<0.03	mg/l	TM38/PM0
Electrical Conductivity @25C #	400	960	670	910	700	270	270	270			<2	uS/cm	TM76/PM0
pH #	7.6	7.5	7.5	7.8	7.8	8.0	8.0	8.0			<0.01	pH units	TM73/PM0
Total Organic Carbon #	3	<2	<2	15	6	13	13	13			<2	mg/l	TM60/PM0
Dissolved Arsenic #	<0.0009	0.0015	<0.0009	0.0031	0.0011	0.0013	0.0013	0.0014			<0.0009	mg/l	TM170/PM14
Dissolved Cadmium #	<0.00003	0.00012	<0.00003	<0.00003	0.00004	<0.00003	<0.00003	<0.00003			<0.00003	mg/l	TM170/PM14
Total Dissolved Chromium #	0.0039	<0.0002	<0.0002	0.0032	<0.0002	0.0071	0.007	0.0072			<0.0002	mg/l	TM170/PM14
Dissolved Copper #	0.002	<0.001	<0.001	0.005	0.001	0.005	0.005	0.005			<0.001	mg/l	TM170/PM14
Dissolved Lead #	<0.0004	0.0027	<0.0004	0.0009	<0.0004	0.0007	0.0005	0.0011			<0.0004	mg/l	TM170/PM14
Dissolved Mercury #	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005			<0.0005	mg/l	TM170/PM14
Dissolved Nickel #	0.0004	0.22	0.005	0.0037	0.0018	0.002	0.0019	0.002			<0.0002	mg/l	TM170/PM14
Dissolved Selenium #	<0.0012	<0.0012	<0.0012	0.011	<0.0012	<0.0012	<0.0012	<0.0012			<0.0012	mg/l	TM170/PM14
Dissolved Zinc #	<0.0015	0.0026	0.0025	0.0056	0.0018	0.0039	0.0039	0.0062			<0.0015	mg/l	TM170/PM14
PCB 28 #	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001			<0.0001	mg/l	TM17/PM30
PCB 52 #	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001			<0.0001	mg/l	TM17/PM30
PCB 101 #	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001			<0.0001	mg/l	TM17/PM30
PCB 118 #	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001			<0.0001	mg/l	TM17/PM30
PCB 138 #	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001			<0.0001	mg/l	TM17/PM30
PCB 153 #	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001			<0.0001	mg/l	TM17/PM30
PCB 180 #	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001			<0.0001	mg/l	TM17/PM30
Total 7 PCBs	<0.0007	<0.0007	<0.0007	<0.0007	<0.0007	<0.0007	<0.0007	<0.0007			<0.0007	mg/l	TM17/PM30
Ortho Phosphate as PO4 #	<0.06	<0.06	<0.06	<0.06	<0.06	0.09	0.17	0.08			<0.06	mg/l	TM38/PM0
COD (Settled) #	10	24	16	48	29	28	36	27			<7	mg/l	TM57/PM0

Please see attached notes for all abbreviations and acronyms

Client Name: SLR Consulting Ltd
Reference: 406.064893.00001
Location: LLangefni
Contact: Mark Swain
EMT Job No: 23/15704

VOC Report : **Liquid**

EMT Sample No.	1-8	9-16	17-24	25-32	33-40	41-48	49-56	57-64	65-72	73-80	LOD/LOR	Units	Method No.
Sample ID	BH11	BH10	BH1	BH9	BH2	BH8	BH7	BH6	BH12	BH13			
Depth	0.527	0.348	0.471	0.300	0.493	0.592	0.665	1.010	1.193	1.150			
COC No / misc													
Containers	V HNUF HCL Z P G	V HN HCL Z P G	V HN HCL Z P G	V HN HCL Z P G	V HN HCL Z P G	V HNUF HCL Z P G	V HNUF HCL Z P G	V HNUF HCL Z P G	V HNUF HCL Z P G	V HN HCL Z P G			
Sample Date	19/09/2023	19/09/2023	19/09/2023	19/09/2023	19/09/2023	19/09/2023	19/09/2023	19/09/2023	20/09/2023	20/09/2023			
Sample Type	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water			
Batch Number	1	1	1	1	1	1	1	1	1	1			
Date of Receipt	23/09/2023	23/09/2023	23/09/2023	23/09/2023	23/09/2023	23/09/2023	23/09/2023	23/09/2023	23/09/2023	23/09/2023			
VOC MS													
Dichlorodifluoromethane	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	mg/l	TM15/PM10
Methyl Tertiary Butyl Ether #	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	mg/l	TM15/PM10
Chloromethane #	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	mg/l	TM15/PM10
Vinyl Chloride #	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	mg/l	TM15/PM10
Bromomethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	mg/l	TM15/PM10
Chloroethane #	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	mg/l	TM15/PM10
Trichlorofluoromethane #	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.036	0.097	<0.003	mg/l	TM15/PM10
1,1-Dichloroethene (1,1 DCE) #	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.007	<0.003	<0.003	mg/l	TM15/PM10
Dichloromethane (DCM) #	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	mg/l	TM15/PM10
trans-1-2-Dichloroethene #	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	mg/l	TM15/PM10
1,1-Dichloroethane #	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.066	0.005	<0.003	mg/l	TM15/PM10
cis-1-2-Dichloroethene #	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	mg/l	TM15/PM10
2,2-Dichloropropane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	mg/l	TM15/PM10
Bromochloromethane #	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	mg/l	TM15/PM10
Chloroform #	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	mg/l	TM15/PM10
1,1,1-Trichloroethane #	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.073	0.012	<0.002	mg/l	TM15/PM10
1,1-Dichloropropene #	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	mg/l	TM15/PM10
Carbon tetrachloride #	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	mg/l	TM15/PM10
1,2-Dichloroethane #	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	mg/l	TM15/PM10
Benzene #	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	mg/l	TM15/PM10
Trichloroethene (TCE) #	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	mg/l	TM15/PM10
1,2-Dichloropropane #	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	mg/l	TM15/PM10
Dibromomethane #	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	mg/l	TM15/PM10
Bromodichloromethane #	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	mg/l	TM15/PM10
cis-1-3-Dichloropropene	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	mg/l	TM15/PM10
Toluene #	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	mg/l	TM15/PM10
trans-1-3-Dichloropropene	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	mg/l	TM15/PM10
1,1,2-Trichloroethane #	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	mg/l	TM15/PM10
Tetrachloroethene (PCE) #	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	mg/l	TM15/PM10
1,3-Dichloropropane #	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	mg/l	TM15/PM10
Dibromochloromethane #	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	mg/l	TM15/PM10
1,2-Dibromoethane #	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	mg/l	TM15/PM10
Chlorobenzene #	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	mg/l	TM15/PM10
1,1,1,2-Tetrachloroethane #	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	mg/l	TM15/PM10
Ethylbenzene #	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	mg/l	TM15/PM10
m/p-Xylene #	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	mg/l	TM15/PM10
o-Xylene #	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	mg/l	TM15/PM10
Styrene	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	mg/l	TM15/PM10
Bromoform #	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	mg/l	TM15/PM10
Isopropylbenzene #	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	mg/l	TM15/PM10
1,1,2,2-Tetrachloroethane	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	mg/l	TM15/PM10
Bromobenzene #	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	mg/l	TM15/PM10
1,2,3-Trichloropropane #	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	mg/l	TM15/PM10
Propylbenzene #	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	mg/l	TM15/PM10
2-Chlorotoluene #	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	mg/l	TM15/PM10
1,3,5-Trimethylbenzene #	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	mg/l	TM15/PM10
4-Chlorotoluene #	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	mg/l	TM15/PM10
tert-Butylbenzene #	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	mg/l	TM15/PM10
1,2,4-Trimethylbenzene #	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	mg/l	TM15/PM10
sec-Butylbenzene #	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	mg/l	TM15/PM10
4-Isopropyltoluene #	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	mg/l	TM15/PM10
1,3-Dichlorobenzene #	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	mg/l	TM15/PM10
1,4-Dichlorobenzene #	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	mg/l	TM15/PM10
n-Butylbenzene #	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	mg/l	TM15/PM10
1,2-Dichlorobenzene #	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	mg/l	TM15/PM10
1,2-Dibromo-3-chloropropane	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	mg/l	TM15/PM10
1,2,4-Trichlorobenzene	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	mg/l	TM15/PM10
Hexachlorobutadiene	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	mg/l	TM15/PM10
Naphthalene	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	mg/l	TM15/PM10
1,2,3-Trichlorobenzene	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	mg/l	TM15/PM10
Surrogate Recovery Toluene D8	97	99	99	100	100	97	96	87	88	110	<0	%	TM15/PM10
Surrogate Recovery 4-Bromofluorobenzene	100	99	100	96	96	95	94	85	87	100	<0	%	TM15/PM10

Please see attached notes for all abbreviations and acronyms

All solid results are expressed on a dry weight basis unless stated otherwise.

Client Name: SLR Consulting Ltd
Reference: 406.064893.00001
Location: LLangefni
Contact: Mark Swain
EMT Job No: 23/15704

VOC Report : **Liquid**

EMT Sample No.	81-88	89-96	97-104	105-112	113-120	121-128	129-136	137-144			LOD/LOR	Units	Method No.
Sample ID	BH14	BH15	BH5	BH4	BH3	SW-N	SW-M	SW-S					
Depth	1.483	1.505	1.168	1.403	1.052	0	0	0					
COC No / misc													
Containers	V HN HCL Z P G	V HNUF HCL Z P G	V HNUF HCL Z P G	V HNUF HCL Z P G	V HNUF HCL Z P G	V HN HCL Z P G	V HN HCL Z P G	V HN HCL Z P G					
Sample Date	20/09/2023	20/09/2023	20/09/2023	20/09/2023	20/09/2023	20/09/2023	20/09/2023	20/09/2023					
Sample Type	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Surface Water	Surface Water	Surface Water					
Batch Number	1	1	1	1	1	1	1	1					
Date of Receipt	23/09/2023	23/09/2023	23/09/2023	23/09/2023	23/09/2023	23/09/2023	23/09/2023	23/09/2023					
VOC MS													
Dichlorodifluoromethane	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002			<0.002	mg/l	TM15/PM10
Methyl Tertiary Butyl Ether #	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001			<0.0001	mg/l	TM15/PM10
Chloromethane #	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003			<0.003	mg/l	TM15/PM10
Vinyl Chloride #	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001			<0.0001	mg/l	TM15/PM10
Bromomethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001			<0.001	mg/l	TM15/PM10
Chloroethane #	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003			<0.003	mg/l	TM15/PM10
Trichlorofluoromethane #	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003			<0.003	mg/l	TM15/PM10
1,1-Dichloroethene (1,1 DCE) #	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003			<0.003	mg/l	TM15/PM10
Dichloromethane (DCM) #	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003			<0.003	mg/l	TM15/PM10
trans-1-2-Dichloroethene #	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003			<0.003	mg/l	TM15/PM10
1,1-Dichloroethane #	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003			<0.003	mg/l	TM15/PM10
cis-1-2-Dichloroethene #	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003			<0.003	mg/l	TM15/PM10
2,2-Dichloropropane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001			<0.001	mg/l	TM15/PM10
Bromochloromethane #	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002			<0.002	mg/l	TM15/PM10
Chloroform #	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002			<0.002	mg/l	TM15/PM10
1,1,1-Trichloroethane #	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002			<0.002	mg/l	TM15/PM10
1,1-Dichloropropene #	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003			<0.003	mg/l	TM15/PM10
Carbon tetrachloride #	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002			<0.002	mg/l	TM15/PM10
1,2-Dichloroethane #	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002			<0.002	mg/l	TM15/PM10
Benzene #	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005			<0.0005	mg/l	TM15/PM10
Trichloroethene (TCE) #	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003			<0.003	mg/l	TM15/PM10
1,2-Dichloropropane #	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002			<0.002	mg/l	TM15/PM10
Dibromomethane #	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003			<0.003	mg/l	TM15/PM10
Bromodichloromethane #	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002			<0.002	mg/l	TM15/PM10
cis-1-3-Dichloropropene	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002			<0.002	mg/l	TM15/PM10
Toluene #	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005			<0.005	mg/l	TM15/PM10
trans-1-3-Dichloropropene	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002			<0.002	mg/l	TM15/PM10
1,1,2-Trichloroethane #	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002			<0.002	mg/l	TM15/PM10
Tetrachloroethene (PCE) #	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003			<0.003	mg/l	TM15/PM10
1,3-Dichloropropane #	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002			<0.002	mg/l	TM15/PM10
Dibromochloromethane #	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002			<0.002	mg/l	TM15/PM10
1,2-Dibromoethane #	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002			<0.002	mg/l	TM15/PM10
Chlorobenzene #	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002			<0.002	mg/l	TM15/PM10
1,1,1,2-Tetrachloroethane #	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002			<0.002	mg/l	TM15/PM10
Ethylbenzene #	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001			<0.001	mg/l	TM15/PM10
m/p-Xylene #	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002			<0.002	mg/l	TM15/PM10
o-Xylene #	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001			<0.001	mg/l	TM15/PM10
Styrene	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002			<0.002	mg/l	TM15/PM10
Bromoform #	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002			<0.002	mg/l	TM15/PM10
Isopropylbenzene #	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003			<0.003	mg/l	TM15/PM10
1,1,2,2-Tetrachloroethane	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004			<0.004	mg/l	TM15/PM10
Bromobenzene #	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002			<0.002	mg/l	TM15/PM10
1,2,3-Trichloropropane #	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003			<0.003	mg/l	TM15/PM10
Propylbenzene #	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003			<0.003	mg/l	TM15/PM10
2-Chlorotoluene #	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003			<0.003	mg/l	TM15/PM10
1,3,5-Trimethylbenzene #	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003			<0.003	mg/l	TM15/PM10
4-Chlorotoluene #	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003			<0.003	mg/l	TM15/PM10
tert-Butylbenzene #	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003			<0.003	mg/l	TM15/PM10
1,2,4-Trimethylbenzene #	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003			<0.003	mg/l	TM15/PM10
sec-Butylbenzene #	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003			<0.003	mg/l	TM15/PM10
4-Isopropyltoluene #	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003			<0.003	mg/l	TM15/PM10
1,3-Dichlorobenzene #	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003			<0.003	mg/l	TM15/PM10
1,4-Dichlorobenzene #	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003			<0.003	mg/l	TM15/PM10
n-Butylbenzene #	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003			<0.003	mg/l	TM15/PM10
1,2-Dichlorobenzene #	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003			<0.003	mg/l	TM15/PM10
1,2-Dibromo-3-chloropropane	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002			<0.002	mg/l	TM15/PM10
1,2,4-Trichlorobenzene	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003			<0.003	mg/l	TM15/PM10
Hexachlorobutadiene	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003			<0.003	mg/l	TM15/PM10
Naphthalene	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002			<0.002	mg/l	TM15/PM10
1,2,3-Trichlorobenzene	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003			<0.003	mg/l	TM15/PM10
Surrogate Recovery Toluene D8	110	97	99	98	98	100	94	89			<0	%	TM15/PM10
Surrogate Recovery 4-Bromofluorobenzene	110	96	98	100	98	99	97	88			<0	%	TM15/PM10

Please see attached notes for all abbreviations and acronyms

Client Name: SLR Consulting Ltd
Reference: 406.064893.00001
Location: LLangefni
Contact: Mark Swain

EMT Job No.	Batch	Sample ID	Depth	EMT Sample No.	Analysis	Reason
No deviating sample report results for job 23/15704						

Please note that only samples that are deviating are mentioned in this report. If no samples are listed it is because none were deviating. Only analyses which are accredited are recorded as deviating if set criteria are not met.
It is a requirement under ISO 17025 that we inform clients if samples are deviating i.e. outside what is expected. A deviating sample indicates that the sample 'may' be compromised but not necessarily will be compromised. The result is still accredited and our analytical reports will still show accreditation on the relevant analytes.

NOTES TO ACCOMPANY ALL SCHEDULES AND REPORTS

EMT Job No.: 23/15704

SOILS and ASH

Please note we are only MCERTS accredited (UK soils only) for sand, loam and clay and any other matrix is outside our scope of accreditation.

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation has been performed on clay, sand and loam, only samples that are predominantly these matrices, or combinations of them will be within our MCERTS scope. If samples are not one of a combination of the above matrices they will not be marked as MCERTS accredited.

It is assumed that you have taken representative samples on site and require analysis on a representative subsample. Stones will generally be included unless we are requested to remove them.

All samples will be discarded one month after the date of reporting, unless we are instructed to the contrary. Asbestos samples are retained for 6 months.

If you have not already done so, please send us a purchase order if this is required by your company.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

All analysis is reported on a dry weight basis unless stated otherwise. Limits of detection for analyses carried out on as received samples are not moisture content corrected. Results are not surrogate corrected. Samples are dried at 35°C ±5°C unless otherwise stated. Moisture content for CEN Leachate tests are dried at 105°C ±5°C. Ash samples are dried at 37°C ±5°C.

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

Where a CEN 10:1 ZERO Headspace VOC test has been carried out, a 10:1 ratio of water to wet (as received) soil has been used.

% Asbestos in Asbestos Containing Materials (ACMs) is determined by reference to HSG 264 The Survey Guide - Appendix 2 : ACMs in buildings listed in order of ease of fibre release.

Sufficient amount of sample must be received to carry out the testing specified. Where an insufficient amount of sample has been received the testing may not meet the requirements of our accredited methods, as such accreditation may be removed.

Negative Neutralization Potential (NP) values are obtained when the volume of NaOH (0.1N) titrated (pH 8.3) is greater than the volume of HCl (1N) to reduce the pH of the sample to 2.0 - 2.5. Any negative NP values are corrected to 0.

The calculation of Pyrite content assumes that all oxidisable sulphides present in the sample are pyrite. This may not be the case. The calculation may be an overesitimate when other sulphides such as Barite (Barium Sulphate) are present.

WATERS

Please note we are not a UK Drinking Water Inspectorate (DWI) Approved Laboratory .

ISO17025 accreditation applies to surface water and groundwater and usually one other matrix which is analysis specific, any other liquids are outside our scope of accreditation.

As surface waters require different sample preparation to groundwaters the laboratory must be informed of the water type when submitting samples.

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

STACK EMISSIONS

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation for Dioxins and Furans and Dioxin like PCBs has been performed on XAD-2 Resin, only samples which use this resin will be within our MCERTS scope.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

DEVIATING SAMPLES

All samples should be submitted to the laboratory in suitable containers with sufficient ice packs to sustain an appropriate temperature for the requested analysis. The temperature of sample receipt is recorded on the confirmation schedules in order that the client can make an informed decision as to whether testing should still be undertaken.

SURROGATES

Surrogate compounds are added during the preparation process to monitor recovery of analytes. However low recovery in soils is often due to peat, clay or other organic rich matrices. For waters this can be due to oxidants, surfactants, organic rich sediments or remediation fluids. Acceptable limits for most organic methods are 70 - 130% and for VOCs are 50 - 150%. When surrogate recoveries are outside the performance criteria but the associated AQC passes this is assumed to be due to matrix effect. Results are not surrogate corrected.

DILUTIONS

A dilution suffix indicates a dilution has been performed and the reported result takes this into account. No further calculation is required.

BLANKS

Where analytes have been found in the blank, the sample will be treated in accordance with our laboratory procedure for dealing with contaminated blanks.

NOTE

Data is only reported if the laboratory is confident that the data is a true reflection of the samples analysed. Data is only reported as accredited when all the requirements of our Quality System have been met. In certain circumstances where all the requirements of the Quality System have not been met, for instance if the associated AQC has failed, the reason is fully investigated and documented. The sample data is then evaluated alongside the other quality control checks performed during analysis to determine its suitability. Following this evaluation, provided the sample results have not been effected, the data is reported but accreditation is removed. It is a requirement of our Accreditation Body for data not reported as accredited to be considered indicative only, but this does not mean the data is not valid.
Where possible, and if requested, samples will be re-extracted and a revised report issued with accredited results. Please do not hesitate to contact the laboratory if further details are required of the circumstances which have led to the removal of accreditation.
Laboratory records are kept for a period of no less than 6 years.

REPORTS FROM THE SOUTH AFRICA LABORATORY

Any method number not prefixed with SA has been undertaken in our UK laboratory unless reported as subcontracted.

Measurement Uncertainty

Measurement uncertainty defines the range of values that could reasonably be attributed to the measured quantity. This range of values has not been included within the reported results. Uncertainty expressed as a percentage can be provided upon request.

Customer Provided Information

Sample ID and depth is information provided by the customer.

ABBREVIATIONS and ACRONYMS USED

#	ISO17025 (UKAS Ref No. 4225) accredited - UK.
SA	ISO17025 (SANAS Ref No.T0729) accredited - South Africa
B	Indicates analyte found in associated method blank.
DR	Dilution required.
M	MCERTS accredited.
NA	Not applicable
NAD	No Asbestos Detected.
ND	None Detected (usually refers to VOC and/SVOC TICs).
NDP	No Determination Possible
SS	Calibrated against a single substance
SV	Surrogate recovery outside performance criteria. This may be due to a matrix effect.
W	Results expressed on as received basis.
+	AQC failure, accreditation has been removed from this result, if appropriate, see 'Note' on previous page.
>>	Results above quantitative calibration range. The result should be considered the minimum value and is indicative only. The actual result could be significantly higher.
*	Analysis subcontracted to an Element Materials Technology approved laboratory.
AD	Samples are dried at 35°C ±5°C
CO	Suspected carry over
LOD/LOR	Limit of Detection (Limit of Reporting) in line with ISO 17025 and MCERTS
ME	Matrix Effect
NFD	No Fibres Detected
BS	AQC Sample
LB	Blank Sample
N	Client Sample
TB	Trip Blank Sample
OC	Outside Calibration Range
AA	x4 Dilution

HWOL ACRONYMS AND OPERATORS USED

HS	Headspace Analysis.
EH	Extractable Hydrocarbons - i.e. everything extracted by the solvent.
CU	Clean-up - e.g. by florisil, silica gel.
1D	GC - Single coil gas chromatography.
Total	Aliphatics & Aromatics.
AL	Aliphatics only.
AR	Aromatics only.
2D	GC-GC - Double coil gas chromatography.
#1	EH_Total but with humics mathematically subtracted
#2	EU_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
MS	Mass Spectrometry.

EMT Job No: 23/15704

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/SANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
TM4	Modified USEPA 8270D v5:2014 method for the solvent extraction and determination of PAHs by GC-MS.	PM30	Water samples are extracted with solvent using a magnetic stirrer to create a vortex.				
TM4	Modified USEPA 8270D v5:2014 method for the solvent extraction and determination of PAHs by GC-MS.	PM30	Water samples are extracted with solvent using a magnetic stirrer to create a vortex.	Yes			
TM5	Modified 8015B v2:1996 method for the determination of solvent Extractable Petroleum Hydrocarbons (EPH) within the range C8-C40 by GCFID. For waters the solvent extracts dissolved phase plus a sheen if present.	PM16/PM30	Fractionation into aliphatic and aromatic fractions using a Rapid Trace SPE/Water samples are extracted with solvent using a magnetic stirrer to create a vortex.	Yes			
TM5/TM36	please refer to TM5 and TM36 for method details	PM12/PM16/PM30	please refer to PM16/PM30 and PM12 for method details	Yes			
TM15	Modified USEPA 8260B v2:1996. Quantitative Determination of Volatile Organic Compounds (VOCs) by Headspace GC-MS.	PM10	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.				
TM15	Modified USEPA 8260B v2:1996. Quantitative Determination of Volatile Organic Compounds (VOCs) by Headspace GC-MS.	PM10	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.	Yes			
TM17	Modified US EPA method 8270D v5:2014. Determination of specific Polychlorinated Biphenyl congeners by GC-MS.	PM30	Water samples are extracted with solvent using a magnetic stirrer to create a vortex.				
TM17	Modified US EPA method 8270D v5:2014. Determination of specific Polychlorinated Biphenyl congeners by GC-MS.	PM30	Water samples are extracted with solvent using a magnetic stirrer to create a vortex.	Yes			
TM36	Modified US EPA method 8015B v2:1996. Determination of Gasoline Range Organics (GRO) in the carbon chain range of C4-12 by headspace GC-FID. MTBE by GCFID co-elutes with 3-methylpentane if present and therefore can give a false positive. Positive MTBE results will be re-run using GC-MS to double check, when requested.	PM12	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.	Yes			
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) – All anions comparable to BS ISO 15923-1: 2013l	PM0	No preparation is required.	Yes			

EMT Job No: 23/15704

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/SANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
TM57	Modified US EPA Method 410.4. (Rev. 2.0 1993) Comparable with ISO 15705:2002. Chemical Oxygen Demand is determined by hot digestion with Potassium Dichromate and measured spectrophotometerically.	PM0	No preparation is required.	Yes			
TM60	TC/TOC analysis of Waters by High Temperature Combustion followed by NDIR detection. Based on the following modified standard methods: USEPA 9060A (2002), APHA SMEWW 5310B:1999 22nd Edition, ASTM D 7573, and USEPA 415.1.	PM0	No preparation is required.	Yes			
TM73	Modified US EPA methods 150.1 (1982) and 9045D Rev. 4 - 2004) and BS1377-3:1990. Determination of pH by Metrohm automated probe analyser.	PM0	No preparation is required.	Yes			
TM76	Modified US EPA method 120.1 (1982). Determination of Specific Conductance by Metrohm automated probe analyser.	PM0	No preparation is required.	Yes			
TM170	Determination of Trace Metals by ICP-MS (Inductively Coupled Plasma – Mass Spectrometry): Modified USEPA Method 200.8, Rev. 5.4, 1994; Modified EPA Method 6020A, Rev.1, Feb 2007; Modified BS EN ISO 17294-2:2016	PM14	Preparation of waters and leachates for metals by ICP OES/ICP MS. Samples are filtered for Dissolved metals, and remain unfiltered for Total metals then acidified	Yes			

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Attention :	Mark Swain
Date :	28th September, 2023
Your reference :	406.064893.00001
Our reference :	Test Report 23/15704 Batch 1 Schedule B
Location :	LLangefni
Date samples received :	23rd September, 2023
Status :	Final Report
Issue :	1

Eighteen samples were received for analysis on 23rd September, 2023 of which eighteen were scheduled for analysis. Please find attached our Test Report which should be read with notes at the end of the report and should include all sections if reproduced. Interpretations and opinions are outside the scope of any accreditation, and all results relate only to samples supplied.
All analysis is carried out on as received samples and reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected.

The greenhouse gas emissions generated (in Carbon – Co2e) to obtain the results in this report are estimated as:

Scope 1&2 emissions - 3.91 kg of CO2

Scope 1&2&3 emissions - 9.239 kg of CO2

Authorised By:

Paul Boden BSc
Senior Project Manager

Element Materials Technology

Client Name: SLR Consulting Ltd
Reference: 406.064893.00001
Location: LLangefni
Contact: Mark Swain
EMT Job No: 23/15704

Report : Liquid

Liquids/products: V=40ml vial, G=glass bottle, P=plastic bottle
$H=H_2SO_4$, Z=ZnAc, N=NaOH, $HN=HN0_3$

EMT Sample No.	1-8	9-16	17-24	25-32	33-40	41-48	49-56	57-64	65-72	73-80	LOD/LOR	Units	Method No.
Sample ID	BH11	BH10	BH1	BH9	BH2	BH8	BH7	BH6	BH12	BH13			
Depth	0.527	0.348	0.471	0.300	0.493	0.592	0.665	1.010	1.193	1.150			
COC No / misc													
Containers	V HNUF HCL Z P G	V HN HCL Z P G	V HN HCL Z P G	V HN HCL Z P G	V HN HCL Z P G	V HNUF HCL Z P G	V HNUF HCL Z P G	V HNUF HCL Z P G	V HNUF HCL Z P G	V HN HCL Z P G			
Sample Date	19/09/2023	19/09/2023	19/09/2023	19/09/2023	19/09/2023	19/09/2023	19/09/2023	19/09/2023	20/09/2023	20/09/2023			
Sample Type	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water			
Batch Number	1	1	1	1	1	1	1	1	1	1			
Date of Receipt	23/09/2023	23/09/2023	23/09/2023	23/09/2023	23/09/2023	23/09/2023	23/09/2023	23/09/2023	23/09/2023	23/09/2023			
BOD (Settled) #	<1	<1	<1	1	<1	<1	4	<1	<1	<1	<1	mg/l	TM58/PM0

Please see attached notes for all abbreviations and acronyms

Element Materials Technology

Client Name: SLR Consulting Ltd
Reference: 406.064893.00001
Location: LLangefni
Contact: Mark Swain
EMT Job No: 23/15704

Report : Liquid

Liquids/products: V=40ml vial, G=glass bottle, P=plastic bottle
$H=H_2SO_4$, Z=ZnAc, N=NaOH, $HN=HN0_3$

EMT Sample No.	81-88	89-96	97-104	105-112	113-120	121-128	129-136	137-144			LOD/LOR	Units	Method No.
Sample ID	BH14	BH15	BH5	BH4	BH3	SW-N	SW-M	SW-S					
Depth	1.483	1.505	1.168	1.403	1.052	0	0	0					
COC No / misc													
Containers	V HN HCL Z P G	V HNUF HCL Z P G	V HNUF HCL Z P G	V HNUF HCL Z P G	V HNUF HCL Z P G	V HN HCL Z P G	V HN HCL Z P G	V HN HCL Z P G					
Sample Date	20/09/2023	20/09/2023	20/09/2023	20/09/2023	20/09/2023	20/09/2023	20/09/2023	20/09/2023					
Sample Type	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Surface Water	Surface Water	Surface Water					
Batch Number	1	1	1	1	1	1	1	1					
Date of Receipt	23/09/2023	23/09/2023	23/09/2023	23/09/2023	23/09/2023	23/09/2023	23/09/2023	23/09/2023					
BOD (Settled) #	<1	3	2	<1	3	2	1	1			<1	mg/l	TM58/PM0

Please see attached notes for all abbreviations and acronyms

Please include all sections of this report if it is reproduced
All solid results are expressed on a dry weight basis unless stated otherwise.

Element Materials Technology

Notification of Deviating Samples

Client Name: SLR Consulting Ltd

Matrix : Liquid

Reference: 406.064893.00001

Location: LLangefni

Contact: Mark Swain

EMT Job No.	Batch	Sample ID	Depth	EMT Sample No.	Analysis	Reason
23/15704	1	BH11	0.527	1-8	BOD	Sample holding time exceeded
23/15704	1	BH10	0.348	9-16	BOD	Sample holding time exceeded
23/15704	1	BH1	0.471	17-24	BOD	Sample holding time exceeded
23/15704	1	BH9	0.300	25-32	BOD	Sample holding time exceeded
23/15704	1	BH2	0.493	33-40	BOD	Sample holding time exceeded
23/15704	1	BH8	0.592	41-48	BOD	Sample holding time exceeded
23/15704	1	BH7	0.665	49-56	BOD	Sample holding time exceeded
23/15704	1	BH6	1.010	57-64	BOD	Sample holding time exceeded

Please note that only samples that are deviating are mentioned in this report. If no samples are listed it is because none were deviating. Only analyses which are accredited are recorded as deviating if set criteria are not met.

It is a requirement under ISO 17025 that we inform clients if samples are deviating i.e. outside what is expected. A deviating sample indicates that the sample 'may' be compromised but not necessarily will be compromised. The result is still accredited and our analytical reports will still show accreditation on the relevant analytes.

NOTES TO ACCOMPANY ALL SCHEDULES AND REPORTS

EMT Job No.: 23/15704

SOILS and ASH

Please note we are only MCERTS accredited (UK soils only) for sand, loam and clay and any other matrix is outside our scope of accreditation.

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation has been performed on clay, sand and loam, only samples that are predominantly these matrices, or combinations of them will be within our MCERTS scope. If samples are not one of a combination of the above matrices they will not be marked as MCERTS accredited.

It is assumed that you have taken representative samples on site and require analysis on a representative subsample. Stones will generally be included unless we are requested to remove them.

All samples will be discarded one month after the date of reporting, unless we are instructed to the contrary. Asbestos samples are retained for 6 months.

If you have not already done so, please send us a purchase order if this is required by your company.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

All analysis is reported on a dry weight basis unless stated otherwise. Limits of detection for analyses carried out on as received samples are not moisture content corrected. Results are not surrogate corrected. Samples are dried at 35°C ±5°C unless otherwise stated. Moisture content for CEN Leachate tests are dried at 105°C ±5°C. Ash samples are dried at 37°C ±5°C.

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

Where a CEN 10:1 ZERO Headspace VOC test has been carried out, a 10:1 ratio of water to wet (as received) soil has been used.

% Asbestos in Asbestos Containing Materials (ACMs) is determined by reference to HSG 264 The Survey Guide - Appendix 2 : ACMs in buildings listed in order of ease of fibre release.

Sufficient amount of sample must be received to carry out the testing specified. Where an insufficient amount of sample has been received the testing may not meet the requirements of our accredited methods, as such accreditation may be removed.

Negative Neutralization Potential (NP) values are obtained when the volume of NaOH (0.1N) titrated (pH 8.3) is greater than the volume of HCl (1N) to reduce the pH of the sample to 2.0 - 2.5. Any negative NP values are corrected to 0.

The calculation of Pyrite content assumes that all oxidisable sulphides present in the sample are pyrite. This may not be the case. The calculation may be an overesitimate when other sulphides such as Barite (Barium Sulphate) are present.

WATERS

Please note we are not a UK Drinking Water Inspectorate (DWI) Approved Laboratory .

ISO17025 accreditation applies to surface water and groundwater and usually one other matrix which is analysis specific, any other liquids are outside our scope of accreditation.

As surface waters require different sample preparation to groundwaters the laboratory must be informed of the water type when submitting samples.

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

STACK EMISSIONS

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation for Dioxins and Furans and Dioxin like PCBs has been performed on XAD-2 Resin, only samples which use this resin will be within our MCERTS scope.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

DEVIATING SAMPLES

All samples should be submitted to the laboratory in suitable containers with sufficient ice packs to sustain an appropriate temperature for the requested analysis. The temperature of sample receipt is recorded on the confirmation schedules in order that the client can make an informed decision as to whether testing should still be undertaken.

SURROGATES

Surrogate compounds are added during the preparation process to monitor recovery of analytes. However low recovery in soils is often due to peat, clay or other organic rich matrices. For waters this can be due to oxidants, surfactants, organic rich sediments or remediation fluids. Acceptable limits for most organic methods are 70 - 130% and for VOCs are 50 - 150%. When surrogate recoveries are outside the performance criteria but the associated AQC passes this is assumed to be due to matrix effect. Results are not surrogate corrected.

DILUTIONS

A dilution suffix indicates a dilution has been performed and the reported result takes this into account. No further calculation is required.

BLANKS

Where analytes have been found in the blank, the sample will be treated in accordance with our laboratory procedure for dealing with contaminated blanks.

NOTE

Data is only reported if the laboratory is confident that the data is a true reflection of the samples analysed. Data is only reported as accredited when all the requirements of our Quality System have been met. In certain circumstances where all the requirements of the Quality System have not been met, for instance if the associated AQC has failed, the reason is fully investigated and documented. The sample data is then evaluated alongside the other quality control checks performed during analysis to determine its suitability. Following this evaluation, provided the sample results have not been effected, the data is reported but accreditation is removed. It is a requirement of our Accreditation Body for data not reported as accredited to be considered indicative only, but this does not mean the data is not valid.
Where possible, and if requested, samples will be re-extracted and a revised report issued with accredited results. Please do not hesitate to contact the laboratory if further details are required of the circumstances which have led to the removal of accreditation.
Laboratory records are kept for a period of no less than 6 years.

REPORTS FROM THE SOUTH AFRICA LABORATORY

Any method number not prefixed with SA has been undertaken in our UK laboratory unless reported as subcontracted.

Measurement Uncertainty

Measurement uncertainty defines the range of values that could reasonably be attributed to the measured quantity. This range of values has not been included within the reported results. Uncertainty expressed as a percentage can be provided upon request.

Customer Provided Information

Sample ID and depth is information provided by the customer.

ABBREVIATIONS and ACRONYMS USED

#	ISO17025 (UKAS Ref No. 4225) accredited - UK.
SA	ISO17025 (SANAS Ref No.T0729) accredited - South Africa
B	Indicates analyte found in associated method blank.
DR	Dilution required.
M	MCERTS accredited.
NA	Not applicable
NAD	No Asbestos Detected.
ND	None Detected (usually refers to VOC and/SVOC TICs).
NDP	No Determination Possible
SS	Calibrated against a single substance
SV	Surrogate recovery outside performance criteria. This may be due to a matrix effect.
W	Results expressed on as received basis.
+	AQC failure, accreditation has been removed from this result, if appropriate, see 'Note' on previous page.
>>	Results above quantitative calibration range. The result should be considered the minimum value and is indicative only. The actual result could be significantly higher.
*	Analysis subcontracted to an Element Materials Technology approved laboratory.
AD	Samples are dried at 35°C ±5°C
CO	Suspected carry over
LOD/LOR	Limit of Detection (Limit of Reporting) in line with ISO 17025 and MCERTS
ME	Matrix Effect
NFD	No Fibres Detected
BS	AQC Sample
LB	Blank Sample
N	Client Sample
TB	Trip Blank Sample
OC	Outside Calibration Range

HWOL ACRONYMS AND OPERATORS USED

HS	Headspace Analysis.
EH	Extractable Hydrocarbons - i.e. everything extracted by the solvent.
CU	Clean-up - e.g. by florisil, silica gel.
1D	GC - Single coil gas chromatography.
Total	Aliphatics & Aromatics.
AL	Aliphatics only.
AR	Aromatics only.
2D	GC-GC - Double coil gas chromatography.
#1	EH_Total but with humics mathematically subtracted
#2	EU_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
MS	Mass Spectrometry.

EMT Job No: 23/15704

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/SANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
TM58	APHA SMEWW 5210B:1999 22nd Edition. Comparible with ISO 5815:1989. Measurement of Biochemical Oxygen Demand. When cBOD (Carbonaceous BOD) is requested a nitrification inhibitor is added which prevents the oxidation of reduced forms of nitrogen, such as am	PM0	No preparation is required.	Yes			

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SLR Consulting Ltd
Hermes House
Oxon Business Park
Shrewsbury
United Kingdom
SY3 5HJ

Attention :	Mark Swain
Date :	6th October, 2023
Your reference :	406.064893.00001
Our reference :	Test Report 23/15704 Batch 1 Schedule D
Location :	Llangefni
Date samples received :	23rd September, 2023
Status :	Final Report
Issue :	1

Eighteen samples were received for analysis on 23rd September, 2023 of which eighteen were scheduled for analysis. Please find attached our Test Report which should be read with notes at the end of the report and should include all sections if reproduced. Interpretations and opinions are outside the scope of any accreditation, and all results relate only to samples supplied.
All analysis is carried out on as received samples and reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected.

The greenhouse gas emissions generated (in Carbon – Co2e) to obtain the results in this report are estimated as:

Scope 1&2 emissions - 3.91 kg of CO2

Scope 1&2&3 emissions - 9.239 kg of CO2

Authorised By:

Paul Boden BSc
Senior Project Manager

Element Materials Technology

Client Name: SLR Consulting Ltd
Reference: 406.064893.00001
Location: Llangefni
Contact: Mark Swain
EMT Job No: 23/15704

Report : Liquid

Liquids/products: V=40ml vial, G=glass bottle, P=plastic bottle
$H=H_2SO_4$, Z=ZnAc, N=NaOH, $HN=HN0_3$

EMT Sample No.	1-8	9-16	17-24	25-32	33-40	41-48	49-56	57-64	65-72	73-80	LOD/LOR	Units	Method No.
Sample ID	BH11	BH10	BH1	BH9	BH2	BH8	BH7	BH6	BH12	BH13			
Depth	0.527	0.348	0.471	0.300	0.493	0.592	0.665	1.010	1.193	1.150			
COC No / misc													
Containers	V HNUF HCL Z P G	V HN HCL Z P G	V HN HCL Z P G	V HN HCL Z P G	V HN HCL Z P G	V HNUF HCL Z P G	V HNUF HCL Z P G	V HNUF HCL Z P G	V HNUF HCL Z P G	V HN HCL Z P G			
Sample Date	19/09/2023	19/09/2023	19/09/2023	19/09/2023	19/09/2023	19/09/2023	19/09/2023	19/09/2023	20/09/2023	20/09/2023			
Sample Type	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water			
Batch Number	1	1	1	1	1	1	1	1	1	1			
Date of Receipt	23/09/2023	23/09/2023	23/09/2023	23/09/2023	23/09/2023	23/09/2023	23/09/2023	23/09/2023	23/09/2023	23/09/2023			
Dissolved Calcium #	45	85	84	92	80	87	88	180	70	130	<0.2	mg/l	TM30/PM14
Dissolved Magnesium #	4.1	7.4	6.0	5.8	3.7	13	4.4	11	3.0	5.6	<0.1	mg/l	TM30/PM14
Dissolved Potassium #	2.6	3.6	3.6	10	1.7	13	7.7	6.6	5.8	1.2	<0.1	mg/l	TM30/PM14
Dissolved Sodium #	12	22	36	36	54	190	50	180	51	64	<0.1	mg/l	TM30/PM14

Please see attached notes for all abbreviations and acronyms

Element Materials Technology

Client Name: SLR Consulting Ltd
Reference: 406.064893.00001
Location: Llangefni
Contact: Mark Swain
EMT Job No: 23/15704

Report : Liquid

Liquids/products: V=40ml vial, G=glass bottle, P=plastic bottle
$H=H_2SO_4$, Z=ZnAc, N=NaOH, $HN=HN0_3$

EMT Sample No.	81-88	89-96	97-104	105-112	113-120	121-128	129-136	137-144			LOD/LOR	Units	Method No.
Sample ID	BH14	BH15	BH5	BH4	BH3	SW-N	SW-M	SW-S					
Depth	1.483	1.505	1.168	1.403	1.052	0	0	0					
COC No / misc													
Containers	V HN HCL Z P G	V HNUF HCL Z P G	V HNUF HCL Z P G	V HNUF HCL Z P G	V HNUF HCL Z P G	V HN HCL Z P G	V HN HCL Z P G	V HN HCL Z P G					
Sample Date	20/09/2023	20/09/2023	20/09/2023	20/09/2023	20/09/2023	20/09/2023	20/09/2023	20/09/2023					
Sample Type	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Surface Water	Surface Water	Surface Water					
Batch Number	1	1	1	1	1	1	1	1					
Date of Receipt	23/09/2023	23/09/2023	23/09/2023	23/09/2023	23/09/2023	23/09/2023	23/09/2023	23/09/2023					
Dissolved Calcium #	60	120	62	51	59	35	34	34			<0.2	mg/l	TM30/PM14
Dissolved Magnesium #	1.9	5.5	5.1	4.5	2.6	4.4	4.2	4.3			<0.1	mg/l	TM30/PM14
Dissolved Potassium #	0.9	1.0	4.7	9.7	2.9	3.4	3.3	3.3			<0.1	mg/l	TM30/PM14
Dissolved Sodium #	21	67	70	120	78	13	12	13			<0.1	mg/l	TM30/PM14

Please see attached notes for all abbreviations and acronyms

Element Materials Technology

Notification of Deviating Samples

Client Name: SLR Consulting Ltd
Reference: 406.064893.00001
Location: Llangefni
Contact: Mark Swain

EMT Job No.	Batch	Sample ID	Depth	EMT Sample No.	Analysis	Reason
No deviating sample report results for job 23/15704						

Please note that only samples that are deviating are mentioned in this report. If no samples are listed it is because none were deviating. Only analyses which are accredited are recorded as deviating if set criteria are not met.
It is a requirement under ISO 17025 that we inform clients if samples are deviating i.e. outside what is expected. A deviating sample indicates that the sample 'may' be compromised but not necessarily will be compromised. The result is still accredited and our analytical reports will still show accreditation on the relevant analytes.

NOTES TO ACCOMPANY ALL SCHEDULES AND REPORTS

EMT Job No.: 23/15704

SOILS and ASH

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It is assumed that you have taken representative samples on site and require analysis on a representative subsample. Stones will generally be included unless we are requested to remove them.

All samples will be discarded one month after the date of reporting, unless we are instructed to the contrary. Asbestos samples are retained for 6 months.

If you have not already done so, please send us a purchase order if this is required by your company.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

All analysis is reported on a dry weight basis unless stated otherwise. Limits of detection for analyses carried out on as received samples are not moisture content corrected. Results are not surrogate corrected. Samples are dried at 35°C ±5°C unless otherwise stated. Moisture content for CEN Leachate tests are dried at 105°C ±5°C. Ash samples are dried at 37°C ±5°C.

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

Where a CEN 10:1 ZERO Headspace VOC test has been carried out, a 10:1 ratio of water to wet (as received) soil has been used.

% Asbestos in Asbestos Containing Materials (ACMs) is determined by reference to HSG 264 The Survey Guide - Appendix 2 : ACMs in buildings listed in order of ease of fibre release.

Sufficient amount of sample must be received to carry out the testing specified. Where an insufficient amount of sample has been received the testing may not meet the requirements of our accredited methods, as such accreditation may be removed.

Negative Neutralization Potential (NP) values are obtained when the volume of NaOH (0.1N) titrated (pH 8.3) is greater than the volume of HCl (1N) to reduce the pH of the sample to 2.0 - 2.5. Any negative NP values are corrected to 0.

The calculation of Pyrite content assumes that all oxidisable sulphides present in the sample are pyrite. This may not be the case. The calculation may be an overesitimate when other sulphides such as Barite (Barium Sulphate) are present.

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Please note we are not a UK Drinking Water Inspectorate (DWI) Approved Laboratory .

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As surface waters require different sample preparation to groundwaters the laboratory must be informed of the water type when submitting samples.

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STACK EMISSIONS

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Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

DEVIATING SAMPLES

All samples should be submitted to the laboratory in suitable containers with sufficient ice packs to sustain an appropriate temperature for the requested analysis. The temperature of sample receipt is recorded on the confirmation schedules in order that the client can make an informed decision as to whether testing should still be undertaken.

SURROGATES

Surrogate compounds are added during the preparation process to monitor recovery of analytes. However low recovery in soils is often due to peat, clay or other organic rich matrices. For waters this can be due to oxidants, surfactants, organic rich sediments or remediation fluids. Acceptable limits for most organic methods are 70 - 130% and for VOCs are 50 - 150%. When surrogate recoveries are outside the performance criteria but the associated AQC passes this is assumed to be due to matrix effect. Results are not surrogate corrected.

DILUTIONS

A dilution suffix indicates a dilution has been performed and the reported result takes this into account. No further calculation is required.

BLANKS

Where analytes have been found in the blank, the sample will be treated in accordance with our laboratory procedure for dealing with contaminated blanks.

NOTE

Data is only reported if the laboratory is confident that the data is a true reflection of the samples analysed. Data is only reported as accredited when all the requirements of our Quality System have been met. In certain circumstances where all the requirements of the Quality System have not been met, for instance if the associated AQC has failed, the reason is fully investigated and documented. The sample data is then evaluated alongside the other quality control checks performed during analysis to determine its suitability. Following this evaluation, provided the sample results have not been effected, the data is reported but accreditation is removed. It is a requirement of our Accreditation Body for data not reported as accredited to be considered indicative only, but this does not mean the data is not valid.
Where possible, and if requested, samples will be re-extracted and a revised report issued with accredited results. Please do not hesitate to contact the laboratory if further details are required of the circumstances which have led to the removal of accreditation.
Laboratory records are kept for a period of no less than 6 years.

REPORTS FROM THE SOUTH AFRICA LABORATORY

Any method number not prefixed with SA has been undertaken in our UK laboratory unless reported as subcontracted.

Measurement Uncertainty

Measurement uncertainty defines the range of values that could reasonably be attributed to the measured quantity. This range of values has not been included within the reported results. Uncertainty expressed as a percentage can be provided upon request.

Customer Provided Information

Sample ID and depth is information provided by the customer.

ABBREVIATIONS and ACRONYMS USED

#	ISO17025 (UKAS Ref No. 4225) accredited - UK.
SA	ISO17025 (SANAS Ref No.T0729) accredited - South Africa
B	Indicates analyte found in associated method blank.
DR	Dilution required.
M	MCERTS accredited.
NA	Not applicable
NAD	No Asbestos Detected.
ND	None Detected (usually refers to VOC and/SVOC TICs).
NDP	No Determination Possible
SS	Calibrated against a single substance
SV	Surrogate recovery outside performance criteria. This may be due to a matrix effect.
W	Results expressed on as received basis.
+	AQC failure, accreditation has been removed from this result, if appropriate, see 'Note' on previous page.
>>	Results above quantitative calibration range. The result should be considered the minimum value and is indicative only. The actual result could be significantly higher.
*	Analysis subcontracted to an Element Materials Technology approved laboratory.
AD	Samples are dried at 35°C ±5°C
CO	Suspected carry over
LOD/LOR	Limit of Detection (Limit of Reporting) in line with ISO 17025 and MCERTS
ME	Matrix Effect
NFD	No Fibres Detected
BS	AQC Sample
LB	Blank Sample
N	Client Sample
TB	Trip Blank Sample
OC	Outside Calibration Range

HWOL ACRONYMS AND OPERATORS USED

HS	Headspace Analysis.
EH	Extractable Hydrocarbons - i.e. everything extracted by the solvent.
CU	Clean-up - e.g. by florisil, silica gel.
1D	GC - Single coil gas chromatography.
Total	Aliphatics & Aromatics.
AL	Aliphatics only.
AR	Aromatics only.
2D	GC-GC - Double coil gas chromatography.
#1	EH_Total but with humics mathematically subtracted
#2	EU_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
MS	Mass Spectrometry.

EMT Job No: 23/15704

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/SANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
TM30	Determination of Trace Metals by ICP-OES (Inductively Coupled Plasma – Optical Emission Spectrometry): WATERS by Modified USEPA Method 200.7, Rev. 4.4, 1994; Modified EPA Method 6010B, Rev.2, Dec 1996; Modified BS EN ISO 11885:2009: SOILS by Modified USEP 6010B, Rev.2, Dec.1996; Modified EPA Method 3050B, Rev.2, Dec.1996	PM14	Preparation of waters and leachates for metals by ICP OES/ICP MS. Samples are filtered for Dissolved metals, and remain unfiltered for Total metals then acidified	Yes			

Appendix D Comparison With Generic Screening Criteria

Environmental Permit (EP) Surrender Site Investigation Report

LLANGEFNI MEAT PROCESSING FACILITY

2 Sisters Food Group
SLR Project No.: 406.064893.00001

19 October 2023

Generic Risk Assessment - Soils
Lab Data Screening

SLR

Exceeds GAC
Exceeds LOD

Client Name	2 Sisters Food Group
Site Name	Llangefni
Job Number	406.064893.00001
Date	15/09/2023
Description of Data Assessment / Zoning	
Selected Screening Value and Land Use	S4UL - Commercial / Industrial

Sample ID	BH1	BH1	BH2	BH2	BH3	BH3	BH3	BH3	BH4	BH4	BH4A	BH5	BH5
Depth	0.30-0.50	1.20-1.40	0.60-0.80	1.40-1.60	0.5	1	1.5	2	0.60	1.6	0.3	1.1	2.4
Sample Type	Clayey Sand	Clay	Clayey Sand	Clayey Sand	Clay	Clayey Sand	Clayey Sand	Clay	Clay	Clay	Clay	Clay	Clay
Sampled Date	05/09/2023	05/09/2023	06/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023
Sample Received Date	07/09/2023	07/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023
EMT Sample No	41-44	45-48	25-28	29-32	33-36	37-40	41-44	48-50	63-66	71-73	122-125	104-107	108-111
Batch Number	1	1	1	1	1	1	1	1	1	1	1	1	1
EMT Job No	23/14767	23/14767	23/15028	23/15028	23/15028	23/15028	23/15028	23/15028	23/15028	23/15028	23/15028	23/15028	23/15028
Strata / Zone	-	-	-	-	-	-	-	-	-	-	-	-	-

Test	**Units**	**LOD**	**Selected GAC**	**No. Above GAC**												
					-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	mg/kg	<0.5	640	0	17	17	1.3	26	3.3	5.7	-	-	6.4	4.7	18	7.6	8.2
Cadmium	mg/kg	<0.1	190	0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	<0.1	0.2	<0.1	<0.1
Chromium	mg/kg	<0.5	8600	0	53	39	65	73	61	77	-	-	49	19	67	48	65
Hexavalent Chromium	mg/kg	<0.3	33	0	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	-	-	<0.3	<0.3	<0.3	<0.3	<0.3
Copper	mg/kg	<1	68000	0	16	22	15	37	18	33	-	-	26	6	26	26	26
Lead	mg/kg	<5	2330	0	11	16	14	14	9	11	-	-	13	8	61	13	12
Mercury	mg/kg	<0.1	1100	0	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	-	-	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	<0.7	980	0	11	21	5.6	21	11	22	-	-	29	10	26	27	26
Selenium	mg/kg	<1	12000	0	<1	<1	<1	<1	<1	<1	-	-	<1	<1	<1	<1	<1
Zinc	mg/kg	<5	730000	0	51	17	33	42	57	48	-	-	62	9	190	47	40
					-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon	%	<0.02			<0.02	0.15	<0.02	0.17	0.17	0.22	-	-	0.48	0.17	0.81	0.2	0.23
pH	pH units	<0.01			11	8.5	11	9.1	9.4	8.5	-	-	8.6	8.8	8.7	8	8.4
					-	-	-	-	-	-	-	-	-	-	-	-	-
PAH MS					-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	mg/kg	<0.04	190	0	<0.04	<0.04	<0.04	<0.04	<0.04	1.7	-	-	<0.04	<0.04	<0.04	<0.04	<0.04
Acenaphthylene	mg/kg	<0.03	83000	0	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	-	-	<0.03	<0.03	<0.03	<0.03	<0.03
Acenaphthene	mg/kg	<0.05	84000	0	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	<0.05	<0.05	<0.05	<0.05	<0.05
Fluorene	mg/kg	<0.04	63000	0	<0.04	<0.04	<0.04	<0.04	<0.04	0.62	-	-	<0.04	<0.04	<0.04	<0.04	<0.04
Phenanthrene	mg/kg	<0.03	22000	0	<0.03	<0.03	<0.03	<0.03	<0.03	1	-	-	<0.03	0.05	0.07	<0.03	<0.03
Anthracene	mg/kg	<0.04	520000	0	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	-	-	<0.04	<0.04	<0.04	<0.04	<0.04
Fluoranthene	mg/kg	<0.03	23000	0	<0.03	<0.03	<0.03	<0.03	0.24	<0.03	-	-	<0.03	<0.03	0.06	<0.03	<0.03
Pyrene	mg/kg	<0.03	54000	0	<0.03	<0.03	<0.03	<0.03	0.33	0.23	-	-	<0.03	<0.03	0.08	<0.03	<0.03
Benzo(a)anthracene	mg/kg	<0.06	170	0	<0.06	<0.06	<0.06	<0.06	0.17	<0.06	-	-	<0.06	<0.06	<0.06	<0.06	<0.06
Chrysene	mg/kg	<0.02	350	0	<0.02	<0.02	<0.02	<0.02	0.16	0.04	-	-	<0.02	<0.02	0.14	<0.02	<0.02
Benzo(bk)fluoranthene	mg/kg	<0.07			<0.07	<0.07	<0.07	<0.07	0.31	<0.07	-	-	<0.07	<0.07	0.16	<0.07	<0.07
Benzo(a)pyrene	mg/kg	<0.04	35	0	<0.04	<0.04	<0.04	<0.04	0.2	<0.04	-	-	<0.04	<0.04	<0.04	<0.04	<0.04
Indeno(123cd)pyrene	mg/kg	<0.04	500	0	<0.04	<0.04	<0.04	<0.04	0.12	<0.04	-	-	<0.04	<0.04	0.07	<0.04	<0.04
Dibenzo(ah)anthracene	mg/kg	<0.04	3.5	0	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	-	-	<0.04	<0.04	<0.04	<0.04	<0.04
Benzo(ghi)perylene	mg/kg	<0.04	3900	0	<0.04	<0.04	<0.04	<0.04	0.12	<0.04	-	-	<0.04	<0.04	0.14	<0.04	<0.04
Benzo(b)fluoranthene	mg/kg	<0.05	44	0	<0.05	<0.05	<0.05	<0.05	0.22	<0.05	-	-	<0.05	<0.05	0.12	<0.05	<0.05
Benzo(k)fluoranthene	mg/kg	<0.02	1200	0	<0.02	<0.02	<0.02	<0.02	0.09	<0.02	-	-	<0.02	<0.02	0.05	<0.02	<0.02
PAH 16 Total	mg/kg	<0.6			<0.6	<0.6	<0.6	<0.6	1.7	3.6	-	-	<0.6	<0.6	0.7	<0.6	<0.6
					-	-	-	-	-	-	-	-	-	-	-	-	-

Exceeds GAC
Exceeds LOD

Client Name	2 Sisters Food Group
Site Name	Llangefni
Job Number	406.064893.00001
Date	15/09/2023
Description of Data Assessment / Zoning	
Selected Screening Value and Land Use	S4UL - Commercial / Industrial

Sample ID	BH6	BH6	BH7	BH7	BH8	BH8	BH9	BH10	BH10
Depth	0.4	1.75	0.50-0.80	1.20-1.40	0.80-1.00	2.50-2.80	0.40	0.50-0.70	1.30-1.50
Sample Type	Clay	Clay	Clayey Sand	Clayey Sand	Clay	Clay	Clayey Sand	Clayey Sand	Clay
Sampled Date	06/09/2023	07/09/2023	07/09/2023	07/09/2023	05/09/2023	05/09/2023	07/09/2023	06/09/2023	06/09/2023
Sample Received Date	12/09/2023	12/09/2023	12/09/2023	12/09/2023	07/09/2023	07/09/2023	12/09/2023	12/09/2023	12/09/2023
EMT Sample No	115-118	119-121	51-54	55-58	13-16	17-20	126-129	1-4	5-8
Batch Number	1	1	1	1	1	1	1	1	1
EMT Job No	23/15028	23/15028	23/15028	23/15028	23/14767	23/14767	23/15028	23/15028	23/15028
Strata / Zone	-	-	-	-	-	-	-	-	-

Test	**Units**	**LOD**	**Selected GAC**	**No. Above GAC**									
					-	-	-	-	-	-	-	-	-
Arsenic	mg/kg	<0.5	640	0	7.4	14	9.7	13	250	12	2.1	3.1	11
Cadmium	mg/kg	<0.1	190	0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chromium	mg/kg	<0.5	8600	0	73	23	75	58	33	45	64	70	72
Hexavalent Chromium	mg/kg	<0.3	33	0	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Copper	mg/kg	<1	68000	0	25	19	38	26	25	26	6	19	39
Lead	mg/kg	<5	2330	0	12	30	19	15	19	13	8	10	14
Mercury	mg/kg	<0.1	1100	0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	<0.7	980	0	19	38	42	25	31	23	5.8	17	31
Selenium	mg/kg	<1	12000	0	1	2	2	<1	<1	<1	<1	<1	<1
Zinc	mg/kg	<5	730000	0	45	22	59	54	20	30	34	67	65
					-	-	-	-	-	-	-	-	-
Total Organic Carbon	%	<0.02			0.31	0.55	0.17	0.06	0.39	0.19	0.09	0.18	0.05
pH	pH units	<0.01			8.3	8.6	8	8.8	8.6	8.6	10	8.2	8.4
					-	-	-	-	-	-	-	-	-
PAH MS					-	-	-	-	-	-	-	-	-
Naphthalene	mg/kg	<0.04	190	0	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Acenaphthylene	mg/kg	<0.03	83000	0	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Acenaphthene	mg/kg	<0.05	84000	0	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Fluorene	mg/kg	<0.04	63000	0	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Phenanthrene	mg/kg	<0.03	22000	0	<0.03	<0.03	<0.03	<0.03	<0.03	0.03	<0.03	<0.03	<0.03
Anthracene	mg/kg	<0.04	520000	0	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Fluoranthene	mg/kg	<0.03	23000	0	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Pyrene	mg/kg	<0.03	54000	0	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Benzo(a)anthracene	mg/kg	<0.06	170	0	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06
Chrysene	mg/kg	<0.02	350	0	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Benzo(bk)fluoranthene	mg/kg	<0.07			<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07
Benzo(a)pyrene	mg/kg	<0.04	35	0	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Indeno(123cd)pyrene	mg/kg	<0.04	500	0	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Dibenzo(ah)anthracene	mg/kg	<0.04	3.5	0	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Benzo(ghi)perylene	mg/kg	<0.04	3900	0	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Benzo(b)fluoranthene	mg/kg	<0.05	44	0	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	mg/kg	<0.02	1200	0	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
PAH 16 Total	mg/kg	<0.6			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
					-	-	-	-	-	-	-	-	-

Exceeds GAC
Exceeds LOD

Client Name	2 Sisters Food Group
Site Name	Llangefni
Job Number	406.064893.00001
Date	15/09/2023
Description of Data Assessment / Zoning	
Selected Screening Value and Land Use	S4UL - Commercial / Industrial

Sample ID	BH11	BH11	BH12	BH12	BH12	BH13	BH13	BH14	BH14	BH15	BH15	BH16	BH16
Depth	0.60-0.80	1.20-1.40	0.20-0.40	1.40-1.60	3.00-3.20	0.80-1.00	2.50-3.20	0.50-0.90	2.00-2.50	0.50-0.70	1.50-2.00	0.60	0.90-1.10
Sample Type	Clay	Clayey Sand	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay
Sampled Date	06/09/2023	06/09/2023	07/09/2023	07/09/2023	07/09/2023	04/09/2023	04/09/2023	05/09/2023	05/09/2023	05/09/2023	05/09/2023	07/09/2023	07/09/2023
Sample Received Date	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023	12/09/2023	12/09/2023
EMT Sample No	13-16	17-20	74-77	78-81	86-89	1-4	5-8	21-24	25-28	29-32	37-40	90-93	94-96
Batch Number	1	1	1	1	1	1	1	1	1	1	1	1	1
EMT Job No	23/15028	23/15028	23/15028	23/15028	23/15028	23/14767	23/14767	23/14767	23/14767	23/14767	23/14767	23/15028	23/15028
Strata / Zone	-	-	-	-	-	-	-	-	-	-	-	-	-

Test	**Units**	**LOD**	**Selected GAC**	**No. Above GAC**												
					-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	mg/kg	<0.5	640	0	6.2	9.8	17	13	21	10	29	16	10	8.8	10	5.3	25
Cadmium	mg/kg	<0.1	190	0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chromium	mg/kg	<0.5	8600	0	79	75	73	82	23	76	29	74	86	66	73	63	69
Hexavalent Chromium	mg/kg	<0.3	33	0	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Copper	mg/kg	<1	68000	0	31	41	15	29	12	21	16	31	22	23	23	23	44
Lead	mg/kg	<5	2330	0	10	18	21	16	33	20	35	33	35	74	29	10	29
Mercury	mg/kg	<0.1	1100	0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	0.1	<0.1	<0.1
Nickel	mg/kg	<0.7	980	0	34	36	35	28	27	20	35	32	34	20	32	16	49
Selenium	mg/kg	<1	12000	0	1	<1	1	<1	<1	2	<1	1	2	1	2	<1	2
Zinc	mg/kg	<5	730000	0	66	67	48	44	13	53	17	80	100	84	99	55	65
					-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon	%	<0.02			0.18	0.18	0.32	0.24	0.9	0.71	0.51	0.81	2	0.48	7.1	0.37	0.37
pH	pH units	<0.01			8.3	8.6	7.5	8.4	8.7	8.9	8.5	8.3	7.2	6.8	6.7	8.4	7.9
					-	-	-	-	-	-	-	-	-	-	-	-	-
PAH MS					-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	mg/kg	<0.04	190	0	<0.04	<0.04	<0.04	<0.04	0.08	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Acenaphthylene	mg/kg	<0.03	83000	0	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Acenaphthene	mg/kg	<0.05	84000	0	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Fluorene	mg/kg	<0.04	63000	0	<0.04	<0.04	<0.04	<0.04	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Phenanthrene	mg/kg	<0.03	22000	0	<0.03	<0.03	<0.03	<0.03	0.21	<0.03	<0.03	<0.03	<0.03	0.09	<0.03	<0.03	<0.03
Anthracene	mg/kg	<0.04	520000	0	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Fluoranthene	mg/kg	<0.03	23000	0	<0.03	<0.03	<0.03	<0.03	<0.03	0.04	<0.03	0.04	<0.03	0.14	<0.03	<0.03	<0.03
Pyrene	mg/kg	<0.03	54000	0	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.11	<0.03	<0.03	<0.03
Benzo(a)anthracene	mg/kg	<0.06	170	0	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	0.12	<0.06	<0.06	<0.06
Chrysene	mg/kg	<0.02	350	0	<0.02	<0.02	<0.02	<0.02	0.05	<0.02	<0.02	<0.02	<0.02	0.09	<0.02	<0.02	<0.02
Benzo(bk)fluoranthene	mg/kg	<0.07			<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	0.13	<0.07	<0.07	<0.07
Benzo(a)pyrene	mg/kg	<0.04	35	0	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Indeno(123cd)pyrene	mg/kg	<0.04	500	0	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Dibenzo(ah)anthracene	mg/kg	<0.04	3.5	0	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Benzo(ghi)perylene	mg/kg	<0.04	3900	0	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Benzo(b)fluoranthene	mg/kg	<0.05	44	0	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.09	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	mg/kg	<0.02	1200	0	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.04	<0.02	<0.02	<0.02
PAH 16 Total	mg/kg	<0.6			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	0.7	<0.6	<0.6	<0.6
					-	-	-	-	-	-	-	-	-	-	-	-	-

Exceeds GAC
Exceeds LOD

Client Name	2 Sisters Food Group
Site Name	Llangefni
Job Number	406.064893.00001
Date	15/09/2023
Description of Data Assessment / Zoning	
Selected Screening Value and Land Use	S4UL - Commercial / Industrial

Sample ID	BH1	BH1	BH2	BH2	BH3	BH3	BH3	BH3	BH4	BH4	BH4A	BH5	BH5
Depth	0.30-0.50	1.20-1.40	0.60-0.80	1.40-1.60	0.5	1	1.5	2	0.60	1.6	0.3	1.1	2.4
Sample Type	Clayey Sand	Clay	Clayey Sand	Clayey Sand	Clay	Clayey Sand	Clayey Sand	Clay	Clay	Clay	Clay	Clay	Clay
Sampled Date	05/09/2023	05/09/2023	06/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023
Sample Received Date	07/09/2023	07/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023
EMT Sample No	41-44	45-48	25-28	29-32	33-36	37-40	41-44	48-50	63-66	71-73	122-125	104-107	108-111
Batch Number	1	1	1	1	1	1	1	1	1	1	1	1	1
EMT Job No	23/14767	23/14767	23/15028	23/15028	23/15028	23/15028	23/15028	23/15028	23/15028	23/15028	23/15028	23/15028	23/15028
Strata / Zone	-	-	-	-	-	-	-	-	-	-	-	-	-

Methyl Tertiary Butyl Ether	mg/kg	<0.006	ND	0	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Benzene	mg/kg	<0.005	27	0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Toluene	mg/kg	<0.003	56000	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.009	<0.003	0.008	<0.003	<0.003	<0.003
Ethylbenzene	mg/kg	<0.003	5700	0	<0.003	<0.003	<0.003	<0.003	<0.003	0.15	0.12	0.008	<0.003	<0.003	<0.003	<0.003	<0.003
m & p Xylene	mg/kg	<0.004	5900	0	<0.004	<0.004	<0.004	<0.004	<0.004	0.17	0.084	0.011	<0.004	0.008	0.006	<0.004	<0.004
o-Xylene	mg/kg	<0.004	6600	0	<0.004	<0.004	<0.004	<0.004	<0.004	0.15	0.008	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Surrogate Recovery Toluene D8	%	<0			98	91	98	98	110	71	86	69	95	97	76	96	93
					-	-	-	-	-	-	-	-	-	-	-	-	-
TPH CWG					-	-	-	-	-	-	-	-	-	-	-	-	-
Aliphatics					-	-	-	-	-	-	-	-	-	-	-	-	-
aliphatics >C5-C6	mg/kg	<0.1	3200	0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
aliphatics >C6-C8	mg/kg	<0.1	7800	0	<0.1	<0.1	<0.1	<0.1	<0.1	1.1	2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
aliphatics >C8-C10	mg/kg	<0.1	2000	0	<0.1	<0.1	<0.1	<0.1	<0.1	26	34	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
aliphatics >C10-C12	mg/kg	<0.2	9700	0	<0.2	<0.2	<0.2	<0.2	<0.2	180	60	<0.2	<0.2	<0.2	2.3	<0.2	<0.2
aliphatics >C12-C16	mg/kg	<4	59000	0	<4	<4	<4	<4	5	990	290	<4	<4	<4	16	<4	<4
aliphatics >C16-C21	mg/kg	<7	-	0	<7	<7	<7	<7	100	2100	600	10	<7	12	220	<7	<7
aliphatics >C21-C35	mg/kg	<7	-	0	<7	<7	<7	<7	48	570	200	9	<7	10	190	<7	<7
Total aliphatics C5-35	mg/kg	<19			<19	<19	<19	<19	153	3867	1186	19	<19	22	428	<19	<19
Aromatics					-	-	-	-	-	-	-	-	-	-	-	-	-
aromatics >EC5-EC7	mg/kg	<0.1	26000	0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
aromatics >EC7-EC8	mg/kg	<0.1	56000	0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
aromatics >EC8-EC10	mg/kg	<0.1	3500	0	<0.1	<0.1	<0.1	<0.1	<0.1	1.4	0.8	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
aromatics >EC10-EC12	mg/kg	<0.2	16000	0	<0.2	<0.2	<0.2	<0.2	<0.2	110	34	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
aromatics >EC12-EC16	mg/kg	<4	36000	0	<4	<4	<4	<4	<4	520	150	<4	<4	<4	<4	<4	<4
aromatics >EC16-EC21	mg/kg	<7	28000	0	<7	<7	<7	<7	19	910	260	<7	<7	<7	57	<7	<7
aromatics >EC21-EC35	mg/kg	<7	28000	0	<7	<7	<7	15	43	280	84	<7	66	<7	250	13	<7
					-	-	-	-	-	-	-	-	-	-	-	-	-
PCB 28	mg/kg	<0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	-	-	<0.005	<0.005	<0.005	<0.005	<0.005
PCB 52	mg/kg	<0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	-	-	<0.005	<0.005	<0.005	<0.005	<0.005
PCB 101	mg/kg	<0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	-	-	<0.005	<0.005	<0.005	<0.005	<0.005
PCB 118	mg/kg	<0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	-	-	<0.005	<0.005	<0.005	<0.005	<0.005
PCB 138	mg/kg	<0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	-	-	<0.005	<0.005	<0.005	<0.005	<0.005
PCB 153	mg/kg	<0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	-	-	<0.005	<0.005	<0.005	<0.005	<0.005
PCB 180	mg/kg	<0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	-	-	<0.005	<0.005	<0.005	<0.005	<0.005
Total 7 PCBs	mg/kg	<0.035			<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	-	-	<0.035	<0.035	<0.035	<0.035	<0.035
					-	-	-	-	-	-	-	-	-	-	-	-	-

Exceeds GAC
Exceeds LOD

Client Name	2 Sisters Food Group
Site Name	Llangefni
Job Number	406.064893.00001
Date	15/09/2023
Description of Data Assessment / Zoning	
Selected Screening Value and Land Use	S4UL - Commercial / Industrial

Sample ID				BH6	BH6	BH7	BH7	BH8	BH8	BH9	BH10	BH10
Depth				0.4	1.75	0.50-0.80	1.20-1.40	0.80-1.00	2.50-2.80	0.40	0.50-0.70	1.30-1.50
Sample Type				Clay	Clay	Clayey Sand	Clayey Sand	Clay	Clay	Clayey Sand	Clayey Sand	Clay
Sampled Date				06/09/2023	07/09/2023	07/09/2023	07/09/2023	05/09/2023	05/09/2023	07/09/2023	06/09/2023	06/09/2023
Sample Received Date				12/09/2023	12/09/2023	12/09/2023	12/09/2023	07/09/2023	07/09/2023	12/09/2023	12/09/2023	12/09/2023
EMT Sample No				115-118	119-121	51-54	55-58	13-16	17-20	126-129	1-4	5-8
Batch Number				1	1	1	1	1	1	1	1	1
EMT Job No				23/15028	23/15028	23/15028	23/15028	23/14767	23/14767	23/15028	23/15028	23/15028
Strata / Zone				-	-	-	-	-	-	-	-	-
Methyl Tertiary Butyl Ether	mg/kg	<0.006	ND	0	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Benzene	mg/kg	<0.005	27	0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Toluene	mg/kg	<0.003	56000	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Ethylbenzene	mg/kg	<0.003	5700	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
m & p Xylene	mg/kg	<0.004	5900	0	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
o-Xylene	mg/kg	<0.004	6600	0	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Surrogate Recovery Toluene D8	%	<0			92	47	99	100	92	94	92	98	98
					-	-	-	-	-	-	-	-	-
TPH CWG					-	-	-	-	-	-	-	-	-
Aliphatics					-	-	-	-	-	-	-	-	-
aliphatics >C5-C6	mg/kg	<0.1	3200	0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
aliphatics >C6-C8	mg/kg	<0.1	7800	0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
aliphatics >C8-C10	mg/kg	<0.1	2000	0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
aliphatics >C10-C12	mg/kg	<0.2	9700	0	3.2	5.6	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
aliphatics >C12-C16	mg/kg	<4	59000	0	24	15	<4	<4	<4	<4	<4	<4	<4
aliphatics >C16-C21	mg/kg	<7	-	0	66	24	<7	<7	<7	<7	<7	10	<7
aliphatics >C21-C35	mg/kg	<7	-	0	55	37	<7	<7	<7	<7	<7	41	<7
Total aliphatics C5-35	mg/kg	<19			148	82	<19	<19	<19	<19	<19	51	<19
Aromatics					-	-	-	-	-	-	-	-	-
aromatics >EC5-EC7	mg/kg	<0.1	26000	0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
aromatics >EC7-EC8	mg/kg	<0.1	56000	0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
aromatics >EC8-EC10	mg/kg	<0.1	3500	0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
aromatics >EC10-EC12	mg/kg	<0.2	16000	0	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
aromatics >EC12-EC16	mg/kg	<4	36000	0	<4	19	<4	<4	<4	<4	<4	<4	<4
aromatics >EC16-EC21	mg/kg	<7	28000	0	<7	61	<7	<7	<7	<7	<7	<7	<7
aromatics >EC21-EC35	mg/kg	<7	28000	0	18	110	<7	<7	<7	<7	15	<7	<7
					-	-	-	-	-	-	-	-	-
PCB 28	mg/kg	<0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
PCB 52	mg/kg	<0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
PCB 101	mg/kg	<0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
PCB 118	mg/kg	<0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
PCB 138	mg/kg	<0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
PCB 153	mg/kg	<0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
PCB 180	mg/kg	<0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total 7 PCBs	mg/kg	<0.035			<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035
					-	-	-	-	-	-	-	-	-

Exceeds GAC
Exceeds LOD

Client Name	2 Sisters Food Group
Site Name	Llangefni
Job Number	406.064893.00001
Date	15/09/2023
Description of Data Assessment / Zoning	
Selected Screening Value and Land Use	S4UL - Commercial / Industrial

Sample ID	BH11	BH11	BH12	BH12	BH12	BH13	BH13	BH14	BH14	BH15	BH15	BH16	BH16
Depth	0.60-0.80	1.20-1.40	0.20-0.40	1.40-1.60	3.00-3.20	0.80-1.00	2.50-3.20	0.50-0.90	2.00-2.50	0.50-0.70	1.50-2.00	0.60	0.90-1.10
Sample Type	Clay	Clayey Sand	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay
Sampled Date	06/09/2023	06/09/2023	07/09/2023	07/09/2023	07/09/2023	04/09/2023	04/09/2023	05/09/2023	05/09/2023	05/09/2023	05/09/2023	07/09/2023	07/09/2023
Sample Received Date	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023	12/09/2023	12/09/2023
EMT Sample No	13-16	17-20	74-77	78-81	86-89	1-4	5-8	21-24	25-28	29-32	37-40	90-93	94-96
Batch Number	1	1	1	1	1	1	1	1	1	1	1	1	1
EMT Job No	23/15028	23/15028	23/15028	23/15028	23/15028	23/14767	23/14767	23/14767	23/14767	23/14767	23/14767	23/15028	23/15028
Strata / Zone	-	-	-	-	-	-	-	-	-	-	-	-	-

Methyl Tertiary Butyl Ether	mg/kg	<0.006	ND	0	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Benzene	mg/kg	<0.005	27	0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Toluene	mg/kg	<0.003	56000	0	<0.003	<0.003	<0.003	<0.003	0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Ethylbenzene	mg/kg	<0.003	5700	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
m & p Xylene	mg/kg	<0.004	5900	0	<0.004	<0.004	<0.004	<0.004	0.012	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
o-Xylene	mg/kg	<0.004	6600	0	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Surrogate Recovery Toluene D8	%	<0			98	99	96	99	89	95	85	94	87	86	84	92	93
					-	-	-	-	-	-	-	-	-	-	-	-	-
TPH CWG					-	-	-	-	-	-	-	-	-	-	-	-	-
Aliphatics					-	-	-	-	-	-	-	-	-	-	-	-	-
aliphatics >C5-C6	mg/kg	<0.1	3200	0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
aliphatics >C6-C8	mg/kg	<0.1	7800	0	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
aliphatics >C8-C10	mg/kg	<0.1	2000	0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
aliphatics >C10-C12	mg/kg	<0.2	9700	0	<0.2	<0.2	<0.2	<0.2	2.9	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
aliphatics >C12-C16	mg/kg	<4	59000	0	<4	<4	<4	<4	9	<4	<4	<4	<4	<4	<4	<4	<4
aliphatics >C16-C21	mg/kg	<7	-	0	<7	<7	<7	<7	12	<7	10	<7	<7	<7	<7	<7	<7
aliphatics >C21-C35	mg/kg	<7	-	0	<7	<7	<7	<7	15	<7	<7	<7	<7	<7	<7	22	<7
Total aliphatics C5-35	mg/kg	<19			<19	<19	<19	<19	39	<19	<19	<19	<19	<19	<19	22	<19
Aromatics					-	-	-	-	-	-	-	-	-	-	-	-	-
aromatics >EC5-EC7	mg/kg	<0.1	26000	0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
aromatics >EC7-EC8	mg/kg	<0.1	56000	0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
aromatics >EC8-EC10	mg/kg	<0.1	3500	0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
aromatics >EC10-EC12	mg/kg	<0.2	16000	0	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
aromatics >EC12-EC16	mg/kg	<4	36000	0	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
aromatics >EC16-EC21	mg/kg	<7	28000	0	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7
aromatics >EC21-EC35	mg/kg	<7	28000	0	<7	<7	<7	<7	<7	<7	<7	<7	36	<7	77	92	<7
					-	-	-	-	-	-	-	-	-	-	-	-	-
PCB 28	mg/kg	<0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
PCB 52	mg/kg	<0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
PCB 101	mg/kg	<0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
PCB 118	mg/kg	<0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
PCB 138	mg/kg	<0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
PCB 153	mg/kg	<0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
PCB 180	mg/kg	<0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total 7 PCBs	mg/kg	<0.035			<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035
					-	-	-	-	-	-	-	-	-	-	-	-	-

Exceeds GAC
Exceeds LOD

Client Name	2 Sisters Food Group
Site Name	Llangefni
Job Number	406.064893.00001
Date	15/09/2023
Description of Data Assessment / Zoning	
Selected Screening Value and Land Use	S4UL - Commercial / Industrial

Sample ID	BH1	BH1	BH2	BH2	BH3	BH3	BH3	BH3	BH4	BH4	BH4A	BH5	BH5
Depth	0.30-0.50	1.20-1.40	0.60-0.80	1.40-1.60	0.5	1	1.5	2	0.60	1.6	0.3	1.1	2.4
Sample Type	Clayey Sand	Clay	Clayey Sand	Clayey Sand	Clay	Clayey Sand	Clayey Sand	Clay	Clay	Clay	Clay	Clay	Clay
Sampled Date	05/09/2023	05/09/2023	06/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023
Sample Received Date	07/09/2023	07/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023
EMT Sample No	41-44	45-48	25-28	29-32	33-36	37-40	41-44	48-50	63-66	71-73	122-125	104-107	108-111
Batch Number	1	1	1	1	1	1	1	1	1	1	1	1	1
EMT Job No	23/14767	23/14767	23/15028	23/15028	23/15028	23/15028	23/15028	23/15028	23/15028	23/15028	23/15028	23/15028	23/15028
Strata / Zone	-	-	-	-	-	-	-	-	-	-	-	-	-

VOC MS					-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane	mg/kg	<0.002	-	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	-	-	<0.002	<0.002	<0.002	<0.002	<0.002
Methyl Tertiary Butyl Ether	mg/kg	<0.006	ND	0	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	-	-	<0.006	<0.006	<0.006	<0.006	<0.006
Chloromethane	mg/kg	<0.003	ND	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	-	-	<0.003	<0.003	<0.003	<0.003	<0.003
Vinyl Chloride	mg/kg	<0.002	0.059	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	-	-	<0.002	<0.002	<0.002	<0.002	<0.002
Bromomethane	mg/kg	<0.001	-	0	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	-	<0.001	<0.001	<0.001	<0.001	<0.001
Chloroethane	mg/kg	<0.006	ND	0	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	-	-	<0.006	<0.006	<0.006	<0.006	<0.006
Trichlorofluoromethane	mg/kg	<0.003	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	-	-	<0.003	<0.003	<0.003	<0.003	<0.003
1,1-Dichloroethene	mg/kg	<0.006	ND	0	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	-	-	<0.006	<0.006	<0.006	<0.006	<0.006
Dichloromethane	mg/kg	<0.007	ND	0	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	-	-	<0.007	<0.007	<0.007	<0.007	<0.007
Trans-1-2-Dichloroethene	mg/kg	<0.003	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	-	-	<0.003	<0.003	<0.003	<0.003	<0.003
1,1-Dichloroethane	mg/kg	<0.006	ND	0	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	-	-	<0.006	<0.006	<0.006	<0.006	<0.006
cis 1-2 dichloroethene	mg/kg	<0.007	ND	0	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	-	-	<0.007	<0.007	<0.007	<0.007	<0.007
2,2-Dichloropropane	mg/kg	<0.004	-	0	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	-	-	<0.004	<0.004	<0.004	<0.004	<0.004
Bromochloromethane	mg/kg	<0.004			<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	-	-	<0.004	<0.004	<0.004	<0.004	<0.004
Chloroform	mg/kg	<0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	-	-	<0.005	<0.005	<0.005	<0.005	<0.005
1,1,1-Trichloroethane	mg/kg	<0.005	660	0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	-	-	<0.005	<0.005	<0.005	<0.005	<0.005
1,1-Dichloropropene	mg/kg	<0.003	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	-	-	<0.003	<0.003	<0.003	<0.003	<0.003
Carbon Tetrachloride	mg/kg	<0.004	2.9	0	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	-	-	<0.004	<0.004	<0.004	<0.004	<0.004
1,2-Dichloroethane	mg/kg	<0.005	0.67	0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	-	-	<0.005	<0.005	<0.005	<0.005	<0.005
Benzene	mg/kg	<0.005	27	0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	-	-	<0.005	<0.005	<0.005	<0.005	<0.005
Trichloroethene	mg/kg	<0.005	1.2	0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	-	-	<0.005	<0.005	<0.005	<0.005	<0.005
1,2-Dichloropropane	mg/kg	<0.004	ND	0	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	-	-	<0.004	<0.004	<0.004	<0.004	<0.004
Dibromomethane	mg/kg	<0.004	-	0	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	-	-	<0.004	<0.004	<0.004	<0.004	<0.004
Bromodichloromethane	mg/kg	<0.004	ND	0	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	-	-	<0.004	<0.004	<0.004	<0.004	<0.004
Cis-1-3-Dichloropropene	mg/kg	<0.004	-	0	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	-	-	<0.004	<0.004	<0.004	<0.004	<0.004
Toluene	mg/kg	<0.003	56000	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	-	-	<0.003	0.008	<0.003	<0.003	<0.003
Trans-1-3-Dichloropropene	mg/kg	<0.003	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	-	-	<0.003	<0.003	<0.003	<0.003	<0.003
1,1,2-Trichloroethane	mg/kg	<0.004	-	0	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	-	-	<0.004	<0.004	<0.004	<0.004	<0.004
Tetrachloroethene	mg/kg	<0.003	19	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	-	-	<0.003	<0.003	<0.003	<0.003	<0.003
1,3-Dichloropropane	mg/kg	<0.004	-	0	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	-	-	<0.004	<0.004	<0.004	<0.004	<0.004
Dibromochloromethane	mg/kg	<0.005	-	0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	-	-	<0.005	<0.005	<0.005	<0.005	<0.005
1,2-Dibromoethane	mg/kg	<0.003	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	-	-	<0.003	<0.003	<0.003	<0.003	<0.003
Chlorobenzene	mg/kg	<0.004	56	0	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	-	-	<0.004	<0.004	<0.004	<0.004	<0.004
1,1,1,2-Tetrachloroethane	mg/kg	<0.005	110	0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	-	-	<0.005	<0.005	<0.005	<0.005	<0.005
Ethylbenzene	mg/kg	<0.003	5700	0	<0.003	<0.003	<0.003	<0.003	<0.003	0.15	-	-	<0.003	<0.003	<0.003	<0.003	<0.003
m & p Xylene	mg/kg	<0.004	5900	0	<0.004	<0.004	<0.004	<0.004	<0.004	0.17	-	-	<0.004	0.008	0.006	<0.004	<0.004
o-Xylene	mg/kg	<0.004	6600	0	<0.004	<0.004	<0.004	<0.004	<0.004	0.15	-	-	<0.004	<0.004	<0.004	<0.004	<0.004
Styrene	mg/kg	<0.003	ND	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	-	-	<0.003	<0.003	<0.003	<0.003	<0.003
Bromoform	mg/kg	<0.004	ND	0	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	-	-	<0.004	<0.004	<0.004	<0.004	<0.004
Isopropylbenzene	mg/kg	<0.003	ND	0	<0.003	<0.003	<0.003	<0.003	<0.003	0.18	-	-	<0.003	<0.003	<0.003	<0.003	<0.003
1,1,2,2-Tetrachloroethane	mg/kg	<0.003	270	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	-	-	<0.003	<0.003	<0.003	<0.003	<0.003
Bromobenzene	mg/kg	<0.002	ND	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	-	-	<0.002	<0.002	<0.002	<0.002	<0.002
1,2,3-Trichloropropane	mg/kg	<0.004	-	0	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	-	-	<0.004	<0.004	<0.004	<0.004	<0.004
Propylbenzene	mg/kg	<0.004	ND	0	<0.004	<0.004	<0.004	<0.004	<0.004	0.46	-	-	<0.004	<0.004	<0.004	<0.004	<0.004
2-Chlorotoluene	mg/kg	<0.003	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	-	-	<0.003	<0.003	<0.003	<0.003	<0.003
1,3,5-Trimethylbenzene	mg/kg	<0.003	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	1.2	-	-	<0.003	<0.003	<0.003	<0.003	<0.003
4-Chlorotoluene	mg/kg	<0.003	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	-	-	<0.003	<0.003	<0.003	<0.003	<0.003
Tert-Butylbenzene	mg/kg	<0.005	-	0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	-	-	<0.005	<0.005	<0.005	<0.005	<0.005
1,2,4-Trimethylbenzene	mg/kg	<0.006	ND	0	<0.006	<0.006	<0.006	<0.006	<0.006	5.8	-	-	<0.006	<0.006	<0.006	<0.006	<0.006
Sec-Butylbenzene	mg/kg	<0.004	-	0	<0.004	<0.004	<0.004	<0.004	<0.004	0.77	-	-	<0.004	<0.004	<0.004	<0.004	<0.004
4-Isopropyltoluene	mg/kg	<0.004	-	0	<0.004	<0.004	<0.004	<0.004	<0.004	0.59	-	-	<0.004	<0.004	<0.004	<0.004	<0.004
1,3-Dichlorobenzene	mg/kg	<0.004	30	0	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	-	-	<0.004	<0.004	<0.004	<0.004	<0.004
1,4-Dichlorobenzene	mg/kg	<0.004	4400	0	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	-	-	<0.004	<0.004	<0.004	<0.004	<0.004
n-Butylbenzene	mg/kg	<0.004	-	0	<0.004	<0.004	<0.004	<0.004	<0.004	1.2	-	-	<0.004	<0.004	<0.004	<0.004	<0.004
1,2-Dichlorobenzene	mg/kg	<0.004	2000	0	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	-	-	<0.004	<0.004	<0.004	<0.004	<0.004
1,2-Dibromo-3-Chloropropane	mg/kg	<0.004	-	0	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	-	-	<0.004	<0.004	<0.004	<0.004	<0.004
1,2,4-Trichlorobenzene	mg/kg	<0.007	220	0	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	-	-	<0.007	<0.007	<0.007	<0.007	<0.007
Hexachlorobutadiene	mg/kg	<0.004	-	0	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	-	-	<0.004	<0.004	<0.004	<0.004	<0.004
Naphthalene	mg/kg	<0.027	190	0	<0.027	<0.027	<0.027	<0.027	<0.027	1.6	-	-	<0.027	<0.027	<0.027	<0.027	<0.027
1,2,3-Trichlorobenzene	mg/kg	<0.007	102	0	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	-	-	<0.007	<0.007	<0.007	<0.007	<0.007

Exceeds GAC
Exceeds LOD

Client Name	2 Sisters Food Group
Site Name	Llangefni
Job Number	406.064893.00001
Date	15/09/2023
Description of Data Assessment / Zoning	
Selected Screening Value and Land Use	S4UL - Commercial / Industrial

Sample ID	BH6	BH6	BH7	BH7	BH8	BH8	BH9	BH10	BH10
Depth	0.4	1.75	0.50-0.80	1.20-1.40	0.80-1.00	2.50-2.80	0.40	0.50-0.70	1.30-1.50
Sample Type	Clay	Clay	Clayey Sand	Clayey Sand	Clay	Clay	Clayey Sand	Clayey Sand	Clay
Sampled Date	06/09/2023	07/09/2023	07/09/2023	07/09/2023	05/09/2023	05/09/2023	07/09/2023	06/09/2023	06/09/2023
Sample Received Date	12/09/2023	12/09/2023	12/09/2023	12/09/2023	07/09/2023	07/09/2023	12/09/2023	12/09/2023	12/09/2023
EMT Sample No	115-118	119-121	51-54	55-58	13-16	17-20	126-129	1-4	5-8
Batch Number	1	1	1	1	1	1	1	1	1
EMT Job No	23/15028	23/15028	23/15028	23/15028	23/14767	23/14767	23/15028	23/15028	23/15028
Strata / Zone	-	-	-	-	-	-	-	-	-

VOC MS					-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane	mg/kg	<0.002	-	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Methyl Tertiary Butyl Ether	mg/kg	<0.006	ND	0	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Chloromethane	mg/kg	<0.003	ND	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Vinyl Chloride	mg/kg	<0.002	0.059	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Bromomethane	mg/kg	<0.001	-	0	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chloroethane	mg/kg	<0.006	ND	0	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Trichlorofluoromethane	mg/kg	<0.003	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
1,1-Dichloroethene	mg/kg	<0.006	ND	0	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Dichloromethane	mg/kg	<0.007	ND	0	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007
Trans-1-2-Dichloroethene	mg/kg	<0.003	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
1,1-Dichloroethane	mg/kg	<0.006	ND	0	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
cis 1-2 dichloroethene	mg/kg	<0.007	ND	0	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007
2,2-Dichloropropane	mg/kg	<0.004	-	0	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Bromochloromethane	mg/kg	<0.004			<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Chloroform	mg/kg	<0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1,1-Trichloroethane	mg/kg	<0.005	660	0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1-Dichloropropene	mg/kg	<0.003	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Carbon Tetrachloride	mg/kg	<0.004	2.9	0	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
1,2-Dichloroethane	mg/kg	<0.005	0.67	0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Benzene	mg/kg	<0.005	27	0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Trichloroethene	mg/kg	<0.005	1.2	0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,2-Dichloropropane	mg/kg	<0.004	ND	0	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Dibromomethane	mg/kg	<0.004	-	0	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Bromodichloromethane	mg/kg	<0.004	ND	0	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Cis-1-3-Dichloropropene	mg/kg	<0.004	-	0	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Toluene	mg/kg	<0.003	56000	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Trans-1-3-Dichloropropene	mg/kg	<0.003	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
1,1,2-Trichloroethane	mg/kg	<0.004	-	0	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Tetrachloroethene	mg/kg	<0.003	19	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
1,3-Dichloropropane	mg/kg	<0.004	-	0	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Dibromochloromethane	mg/kg	<0.005	-	0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,2-Dibromoethane	mg/kg	<0.003	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chlorobenzene	mg/kg	<0.004	56	0	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
1,1,1,2-Tetrachloroethane	mg/kg	<0.005	110	0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Ethylbenzene	mg/kg	<0.003	5700	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
m & p Xylene	mg/kg	<0.004	5900	0	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
o-Xylene	mg/kg	<0.004	6600	0	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Styrene	mg/kg	<0.003	ND	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Bromoform	mg/kg	<0.004	ND	0	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Isopropylbenzene	mg/kg	<0.003	ND	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
1,1,2,2-Tetrachloroethane	mg/kg	<0.003	270	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Bromobenzene	mg/kg	<0.002	ND	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1,2,3-Trichloropropane	mg/kg	<0.004	-	0	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Propylbenzene	mg/kg	<0.004	ND	0	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
2-Chlorotoluene	mg/kg	<0.003	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
1,3,5-Trimethylbenzene	mg/kg	<0.003	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
4-Chlorotoluene	mg/kg	<0.003	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Tert-Butylbenzene	mg/kg	<0.005	-	0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,2,4-Trimethylbenzene	mg/kg	<0.006	ND	0	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Sec-Butylbenzene	mg/kg	<0.004	-	0	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
4-Isopropyltoluene	mg/kg	<0.004	-	0	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
1,3-Dichlorobenzene	mg/kg	<0.004	30	0	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
1,4-Dichlorobenzene	mg/kg	<0.004	4400	0	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
n-Butylbenzene	mg/kg	<0.004	-	0	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
1,2-Dichlorobenzene	mg/kg	<0.004	2000	0	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
1,2-Dibromo-3-Chloropropane	mg/kg	<0.004	-	0	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
1,2,4-Trichlorobenzene	mg/kg	<0.007	220	0	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007
Hexachlorobutadiene	mg/kg	<0.004	-	0	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Naphthalene	mg/kg	<0.027	190	0	<0.027	<0.027	<0.027	<0.027	<0.027	<0.027	<0.027	<0.027	<0.027
1,2,3-Trichlorobenzene	mg/kg	<0.007	102	0	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007

Exceeds GAC
Exceeds LOD

Client Name	2 Sisters Food Group
Site Name	Llangefni
Job Number	406.064893.00001
Date	15/09/2023
Description of Data Assessment / Zoning	
Selected Screening Value and Land Use	S4UL - Commercial / Industrial

Sample ID	BH11	BH11	BH12	BH12	BH12	BH13	BH13	BH14	BH14	BH15	BH15	BH16	BH16
Depth	0.60-0.80	1.20-1.40	0.20-0.40	1.40-1.60	3.00-3.20	0.80-1.00	2.50-3.20	0.50-0.90	2.00-2.50	0.50-0.70	1.50-2.00	0.60	0.90-1.10
Sample Type	Clay	Clayey Sand	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay
Sampled Date	06/09/2023	06/09/2023	07/09/2023	07/09/2023	07/09/2023	04/09/2023	04/09/2023	05/09/2023	05/09/2023	05/09/2023	05/09/2023	07/09/2023	07/09/2023
Sample Received Date	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023	12/09/2023	12/09/2023
EMT Sample No	13-16	17-20	74-77	78-81	86-89	1-4	5-8	21-24	25-28	29-32	37-40	90-93	94-96
Batch Number	1	1	1	1	1	1	1	1	1	1	1	1	1
EMT Job No	23/15028	23/15028	23/15028	23/15028	23/15028	23/14767	23/14767	23/14767	23/14767	23/14767	23/14767	23/15028	23/15028
Strata / Zone	-	-	-	-	-	-	-	-	-	-	-	-	-

VOC MS					-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane	mg/kg	<0.002	-	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Methyl Tertiary Butyl Ether	mg/kg	<0.006	ND	0	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Chloromethane	mg/kg	<0.003	ND	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Vinyl Chloride	mg/kg	<0.002	0.059	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Bromomethane	mg/kg	<0.001	-	0	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chloroethane	mg/kg	<0.006	ND	0	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Trichlorofluoromethane	mg/kg	<0.003	-	0	<0.003	<0.003	<0.003	<0.003	0.12	<0.003	0.28	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
1,1-Dichloroethene	mg/kg	<0.006	ND	0	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Dichloromethane	mg/kg	<0.007	ND	0	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007
Trans-1-2-Dichloroethene	mg/kg	<0.003	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
1,1-Dichloroethane	mg/kg	<0.006	ND	0	<0.006	<0.006	<0.006	0.039	0.032	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
cis 1-2 dichloroethene	mg/kg	<0.007	ND	0	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007
2,2-Dichloropropane	mg/kg	<0.004	-	0	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Bromochloromethane	mg/kg	<0.004			<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Chloroform	mg/kg	<0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1,1-Trichloroethane	mg/kg	<0.005	660	0	<0.005	<0.005	<0.005	0.015	0.18	<0.005	0.025	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1-Dichloropropene	mg/kg	<0.003	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Carbon Tetrachloride	mg/kg	<0.004	2.9	0	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
1,2-Dichloroethane	mg/kg	<0.005	0.67	0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Benzene	mg/kg	<0.005	27	0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Trichloroethene	mg/kg	<0.005	1.2	0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,2-Dichloropropane	mg/kg	<0.004	ND	0	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Dibromomethane	mg/kg	<0.004	-	0	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Bromodichloromethane	mg/kg	<0.004	ND	0	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Cis-1-3-Dichloropropene	mg/kg	<0.004	-	0	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Toluene	mg/kg	<0.003	56000	0	<0.003	<0.003	<0.003	<0.003	0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Trans-1-3-Dichloropropene	mg/kg	<0.003	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
1,1,2-Trichloroethane	mg/kg	<0.004	-	0	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Tetrachloroethene	mg/kg	<0.003	19	0	<0.003	<0.003	<0.003	<0.003	<0.003	0.007	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
1,3-Dichloropropane	mg/kg	<0.004	-	0	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Dibromochloromethane	mg/kg	<0.005	-	0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,2-Dibromoethane	mg/kg	<0.003	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chlorobenzene	mg/kg	<0.004	56	0	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
1,1,1,2-Tetrachloroethane	mg/kg	<0.005	110	0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Ethylbenzene	mg/kg	<0.003	5700	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
m & p Xylene	mg/kg	<0.004	5900	0	<0.004	<0.004	<0.004	<0.004	0.012	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
o-Xylene	mg/kg	<0.004	6600	0	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Styrene	mg/kg	<0.003	ND	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Bromoform	mg/kg	<0.004	ND	0	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Isopropylbenzene	mg/kg	<0.003	ND	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
1,1,2,2-Tetrachloroethane	mg/kg	<0.003	270	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Bromobenzene	mg/kg	<0.002	ND	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1,2,3-Trichloropropane	mg/kg	<0.004	-	0	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Propylbenzene	mg/kg	<0.004	ND	0	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
2-Chlorotoluene	mg/kg	<0.003	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
1,3,5-Trimethylbenzene	mg/kg	<0.003	-	0	<0.003	<0.003	<0.003	<0.003	0.004	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
4-Chlorotoluene	mg/kg	<0.003	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Tert-Butylbenzene	mg/kg	<0.005	-	0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,2,4-Trimethylbenzene	mg/kg	<0.006	ND	0	<0.006	<0.006	<0.006	<0.006	0.009	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Sec-Butylbenzene	mg/kg	<0.004	-	0	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
4-Isopropyltoluene	mg/kg	<0.004	-	0	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
1,3-Dichlorobenzene	mg/kg	<0.004	30	0	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
1,4-Dichlorobenzene	mg/kg	<0.004	4400	0	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
n-Butylbenzene	mg/kg	<0.004	-	0	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
1,2-Dichlorobenzene	mg/kg	<0.004	2000	0	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
1,2-Dibromo-3-Chloropropane	mg/kg	<0.004	-	0	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
1,2,4-Trichlorobenzene	mg/kg	<0.007	220	0	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007
Hexachlorobutadiene	mg/kg	<0.004	-	0	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Naphthalene	mg/kg	<0.027	190	0	<0.027	<0.027	<0.027	<0.027	<0.027	<0.027	<0.027	<0.027	<0.027	<0.027	<0.027	<0.027	<0.027
1,2,3-Trichlorobenzene	mg/kg	<0.007	102	0	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007

Compiled Water Quality Data

	Exceeds WQS
	Exceeds LOD
BOLD	Exceeds MRV

Client Name	2 Sisters Food Group
Site Name	Llangefni
Job Number	406.064893.00001
Date	28/09/2023
Media	Groundwater
WQS Type	DWS

Sample ID	BH1	BH2	BH3	BH4	BH5	BH6	BH7	BH8
Depth	0.471	0.493	1.052	1.403	1.168	1.01	0.665	0.592
Sample Type	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water
Sampled Date	19/09/23	19/09/23	20/09/23	20/09/23	20/09/23	19/09/23	19/09/23	19/09/23
Sample Received Date	23/09/23	23/09/23	23/09/23	23/09/23	23/09/23	23/09/23	23/09/23	23/09/23
EMT Sample No	17-24	33-40	113-120	105-112	97-104	57-64	49-56	41-48
Batch Number	1	1	1	1	1	1	1	1
0								

Test	Units (converted to mg/l)	LOD (mg/l)	Haz MRV	Selected WQS Value (mg/l)	WQS Type	Count Exceeding WQS							
Dissolved Arsenic	mg/l	<0.0009	-	0.01	UK DWS (2000)	0	0.0015	<0.0009	0.0011	0.0031	<0.0009	0.0018	<0.0009	0.0034
Dissolved Cadmium	mg/l	<0.00003	0.0001	0.005	UK DWS (2000)	0	<0.00003	<0.00003	0.00004	<0.00003	<0.00003	0.00004	0.00007	0.00008
Total Dissolved Chromium	mg/l	<0.0002	-	0.05	UK DWS (2000)	0	0.008	0.0085	<0.0002	0.0032	<0.0002	0.0066	0.0049	0.0039
Dissolved Copper	mg/l	<0.001	-	2	UK DWS 2000	0	0.002	<0.001	0.001	0.005	<0.001	0.002	0.003	0.004
Dissolved Lead	mg/l	<0.0004	-	0.01	UK DWS (2000)	1	<0.0004	<0.0004	<0.0004	0.0009	<0.0004	0.0006	<0.0004	0.0005
Dissolved Mercury	mg/l	<0.0005	0.00001	0.001	UK DWS (2000)	0	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Dissolved Nickel	mg/l	<0.0002	-	-	-	0	0.0031	0.0013	0.0018	0.0037	0.005	0.02	0.0032	0.014
Dissolved Selenium	mg/l	<0.0012	-	0.01	UK DWS (2000)	2	<0.0012	<0.0012	<0.0012	0.011	<0.0012	0.03	<0.0012	0.0019
Dissolved Zinc	mg/l	<0.0015	-	0.5	UK SWAFDW (1996)	0	0.0034	0.0089	0.0018	0.0056	0.0025	0.0052	0.0022	0.0047
Chloride	mg/l	<0.3	-	250	UK DWS (2000)	1	36	80	99	48	48	98	56	260
OrthoPhosphate as PO4	mg/l	<0.06	-	0.4	UK SWAFDW (1996)	0	<0.06	0.09	<0.06	<0.06	<0.06	<0.06	0.13	<0.06
COD	mg/l	<7	-	-	-	0	16	<7	29	48	16	<7	<7	<7
BOD	mg/l	<1	-	-	-	0	<1	<1	3	<1	2	<1	4	<1
Nitrate as N	mg/l	<0.05	-	50	UK DWS (2000)	0	0.83	0.97	<0.05	1.7	<0.05	3.4	11	<0.05
Ammoniacal Nitrogen as NH4	mg/l	<0.03	-	0.5	UK DWS 2000	3	0.08	<0.03	<0.03	0.29	1.18	0.04	<0.03	12.27
Electrical Conductivity @25C	uS/cm	<2	-	-	-	0	590	670	700	910	670	1700	770	1600
pH	pH units	<0.01	-	-	-	0	7.9	8	7.8	7.8	7.5	7.6	7.8	7.9
Total Organic Carbon	mg/l	<2	-	-	-	0	3	<2	6	15	<2	29	<2	<2
PCB 28	mg/l	<0.0001	0.000001	-	-	0	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
PCB 52	mg/l	<0.0001	0.000001	-	-	0	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
PCB 101	mg/l	<0.0001	0.000001	-	-	0	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
PCB 118	mg/l	<0.0001	0.000001	-	-	0	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
PCB 138	mg/l	<0.0001	0.000001	-	-	0	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
PCB 153	mg/l	<0.0001	0.000001	-	-	0	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
PCB 180	mg/l	<0.0001	0.000001	-	-	0	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Total 7 PCBs	mg/l	<0.0007	-	-	-	0	<0.0007	<0.0007	<0.0007	<0.0007	<0.0007	<0.0007	<0.0007	<0.0007

Compiled Water Quality Data

	Exceeds WQS
	Exceeds LOD
BOLD	Exceeds MRV

Client Name	2 Sisters Food Group
Site Name	Llangefni
Job Number	406.064893.00001
Date	28/09/2023
Media	Groundwater
WQS Type	DWS

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Sample ID	BH9	BH10	BH11	BH12	BH13	BH14	BH15
Depth	0.3	0.348	0.527	1.193	1.15	1.483	1.505
Sample Type	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water
Sampled Date	19/09/23	19/09/23	19/09/23	20/09/23	20/09/23	20/09/23	20/09/23
Sample Received Date	23/09/23	23/09/23	23/09/23	23/09/23	23/09/23	23/09/23	23/09/23
EMT Sample No	25-32	9-16	1-8	65-72	73-80	81-88	89-96
Batch Number	1	1	1	1	1	1	1
0							

Test	**Units (converted to mg/l)**	**LOD (mg/l)**	**Haz MRV**	**Selected WQS Value (mg/l)**	**WQS Type**	**Count Exceeding WQS**						
Dissolved Arsenic	mg/l	<0.0009	-	0.01	UK DWS (2000)	0	0.002	0.0012	0.0016	<0.0009	<0.0009	<0.0009	0.0015
Dissolved Cadmium	mg/l	<0.00003	0.0001	0.005	UK DWS (2000)	0	0.00003	<0.00003	0.00007	**0.00065**	**0.0029**	<0.00003	**0.00012**
Total Dissolved Chromium	mg/l	<0.0002	-	0.05	UK DWS (2000)	0	0.0009	<0.0002	0.0002	0.001	0.0034	0.0039	<0.0002
Dissolved Copper	mg/l	<0.001	-	2	UK DWS 2000	0	0.003	<0.001	0.001	0.004	0.015	0.002	<0.001
Dissolved Lead	mg/l	<0.0004	-	0.01	UK DWS (2000)	1	<0.0004	<0.0004	<0.0004	0.0075	0.02	<0.0004	0.0027
Dissolved Mercury	mg/l	<0.0005	0.00001	0.001	UK DWS (2000)	0	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Dissolved Nickel	mg/l	<0.0002	-	-	-	0	0.0037	0.0038	0.005	0.034	0.096	0.0004	0.22
Dissolved Selenium	mg/l	<0.0012	-	0.01	UK DWS (2000)	2	<0.0012	<0.0012	<0.0012	0.002	<0.0012	<0.0012	<0.0012
Dissolved Zinc	mg/l	<0.0015	-	0.5	UK SWAFDW (1996)	0	0.0034	0.0063	0.0076	0.0054	0.0084	<0.0015	0.0026
Chloride	mg/l	<0.3	-	250	UK DWS (2000)	1	43	24	11	15	88	19	120
OrthoPhosphate as PO4	mg/l	<0.06	-	0.4	UK SWAFDW (1996)	0	0.2	0.23	0.24	<0.06	<0.06	<0.06	<0.06
COD	mg/l	<7	-	-	-	0	14	11	8	12	<7	10	24
BOD	mg/l	<1	-	-	-	0	1	<1	<1	<1	<1	<1	3
Nitrate as N	mg/l	<0.05	-	50	UK DWS (2000)	0	0.9	0.5	0.49	0.36	<0.05	0.08	0.07
Ammoniacal Nitrogen as NH4	mg/l	<0.03	-	0.5	UK DWS 2000	3	0.13	0.26	<0.03	0.11	<0.03	0.12	2.04
Electrical Conductivity @25C	uS/cm	<2	-	-	-	0	660	560	350	590	930	400	960
pH	pH units	<0.01	-	-	-	0	7.8	7.8	8	7.8	7.5	7.6	7.5
Total Organic Carbon	mg/l	<2	-	-	-	0	<2	<2	<2	<2	<2	3	<2
PCB 28	mg/l	<0.0001	0.000001	-	-	0	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
PCB 52	mg/l	<0.0001	0.000001	-	-	0	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
PCB 101	mg/l	<0.0001	0.000001	-	-	0	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
PCB 118	mg/l	<0.0001	0.000001	-	-	0	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
PCB 138	mg/l	<0.0001	0.000001	-	-	0	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
PCB 153	mg/l	<0.0001	0.000001	-	-	0	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
PCB 180	mg/l	<0.0001	0.000001	-	-	0	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Total 7 PCBs	mg/l	<0.0007	-	-	-	0	<0.0007	<0.0007	<0.0007	<0.0007	<0.0007	<0.0007	<0.0007

Compiled Water Quality Data

	Exceeds WQS
	Exceeds LOD
BOLD	Exceeds MRV

Client Name	2 Sisters Food Group
Site Name	Llangefni
Job Number	406.064893.00001
Date	28/09/2023
Media	Groundwater
WQS Type	DWS

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Sample ID	SW-N	SW-M	SW-S
Depth			
Sample Type	Surface Water	Surface Water	Surface Water
Sampled Date	20/09/23	20/09/23	20/09/23
Sample Received Date	23/09/23	23/09/23	23/09/23
EMT Sample No	121-128	129-136	137-144
Batch Number	1	1	1
0			

Test	Units (converted to mg/l)	LOD (mg/l)	Haz MRV	Selected WQS Value (mg/l)	WQS Type	Count Exceeding WQS			
Dissolved Arsenic	mg/l	<0.0009	-	0.01	UK DWS (2000)	0	0.0013	0.0013	0.0014
Dissolved Cadmium	mg/l	<0.00003	0.0001	0.005	UK DWS (2000)	0	<0.00003	<0.00003	<0.00003
Total Dissolved Chromium	mg/l	<0.0002	-	0.05	UK DWS (2000)	0	0.0071	0.007	0.0072
Dissolved Copper	mg/l	<0.001	-	2	UK DWS 2000	0	0.005	0.005	0.005
Dissolved Lead	mg/l	<0.0004	-	0.01	UK DWS (2000)	1	0.0007	0.0005	0.0011
Dissolved Mercury	mg/l	<0.0005	0.00001	0.001	UK DWS (2000)	0	<0.0005	<0.0005	<0.0005
Dissolved Nickel	mg/l	<0.0002	-	-	-	0	0.002	0.0019	0.002
Dissolved Selenium	mg/l	<0.0012	-	0.01	UK DWS (2000)	2	<0.0012	<0.0012	<0.0012
Dissolved Zinc	mg/l	<0.0015	-	0.5	UK SWAFDW (1996)	0	0.0039	0.0039	0.0062
Chloride	mg/l	<0.3	-	250	UK DWS (2000)	1	18	18	18
OrthoPhosphate as PO4	mg/l	<0.06	-	0.4	UK SWAFDW (1996)	0	0.09	0.17	0.08
COD	mg/l	<7	-	-	-	0	28	36	27
BOD	mg/l	<1	-	-	-	0	2	1	1
Nitrate as N	mg/l	<0.05	-	50	UK DWS (2000)	0	0.45	0.43	0.43
Ammoniacal Nitrogen as NH4	mg/l	<0.03	-	0.5	UK DWS 2000	3	0.09	0.09	0.09
Electrical Conductivity @25C	uS/cm	<2	-	-	-	0	270	270	270
pH	pH units	<0.01	-	-	-	0	8	8	8
Total Organic Carbon	mg/l	<2	-	-	-	0	13	13	13
PCB 28	mg/l	<0.0001	0.000001	-	-	0	<0.0001	<0.0001	<0.0001
PCB 52	mg/l	<0.0001	0.000001	-	-	0	<0.0001	<0.0001	<0.0001
PCB 101	mg/l	<0.0001	0.000001	-	-	0	<0.0001	<0.0001	<0.0001
PCB 118	mg/l	<0.0001	0.000001	-	-	0	<0.0001	<0.0001	<0.0001
PCB 138	mg/l	<0.0001	0.000001	-	-	0	<0.0001	<0.0001	<0.0001
PCB 153	mg/l	<0.0001	0.000001	-	-	0	<0.0001	<0.0001	<0.0001
PCB 180	mg/l	<0.0001	0.000001	-	-	0	<0.0001	<0.0001	<0.0001
Total 7 PCBs	mg/l	<0.0007	-	-	-	0	<0.0007	<0.0007	<0.0007

Compiled Water Quality Data

	Exceeds WQS
	Exceeds LOD
BOLD	Exceeds MRV

Client Name	2 Sisters Food Group
Site Name	Llangefni
Job Number	406.064893.00001
Date	28/09/2023
Media	Groundwater
WQS Type	DWS

Sample ID	BH1	BH2	BH3	BH4	BH5	BH6	BH7	BH8
Depth	0.471	0.493	1.052	1.403	1.168	1.01	0.665	0.592
Sample Type	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water
Sampled Date	19/09/23	19/09/23	20/09/23	20/09/23	20/09/23	19/09/23	19/09/23	19/09/23
Sample Received Date	23/09/23	23/09/23	23/09/23	23/09/23	23/09/23	23/09/23	23/09/23	23/09/23
EMT Sample No	17-24	33-40	113-120	105-112	97-104	57-64	49-56	41-48
Batch Number	1	1	1	1	1	1	1	1
0								

Test	**Units (converted to mg/l)**	**LOD (mg/l)**	**Haz MRV**	**Selected WQS Value (mg/l)**	**WQS Type**	**Count Exceeding WQS**							
PAH MS			-	-	-	-							
Naphthalene	mg/l	<0.0001	-	-	-	0	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Acenaphthylene	mg/l	<0.000005	-	-	-	0	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005
Acenaphthene	mg/l	<0.000005	-	-	-	0	<0.000005	<0.000005	<0.000005	<0.000005	0.000014	<0.000005	<0.000005	0.000008
Fluorene	mg/l	<0.000005	-	-	-	0	<0.000005	<0.000005	<0.000005	<0.000005	0.000005	<0.000005	<0.000005	<0.000005
Phenanthrene	mg/l	<0.000005	-	-	-	0	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	0.000005
Anthracene	mg/l	<0.000005	-	-	-	0	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005
Fluoranthene	mg/l	<0.000005	-	-	-	0	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	0.000015
Pyrene	mg/l	<0.000005	-	-	-	0	<0.000005	<0.000005	0.000047	<0.000005	<0.000005	<0.000005	<0.000005	0.000021
Benzo(a)anthracene	mg/l	<0.000005	-	-	-	0	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005
Chrysene	mg/l	<0.000005	-	-	-	0	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005
Benzo(bk)fluoranthene	mg/l	<0.000008	-	0.0001	UK DWS (2000)	0	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008
Benzo(a)pyrene	mg/l	<0.000005	-	0.00001	UK DWS (2000)	0	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005
Indeno(123cd)pyrene	mg/l	<0.000005	-	0.0001	UK DWS (2000)	0	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005
Dibenzo(ah)anthracene	mg/l	<0.000005	-	-	-	0	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005
Benzo(ghi)perylene	mg/l	<0.000005	-	0.0001	UK DWS (2000)	0	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005
PAH 16 Total	mg/l	<0.000173	-	-	-	0	<0.000173	<0.000173	<0.000173	<0.000173	<0.000173	<0.000173	<0.000173	<0.000173
Benzo(b)fluoranthene	mg/l	<0.000008	-	0.0001	UK DWS (2000)	0	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008
Benzo(k)fluoranthene	mg/l	<0.000008	-	0.0001	UK DWS (2000)	0	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008
PAH Surrogate % Recovery	%	<0	-	-	-	0	86	82	80	77	79	80	81	84
Methyl Tertiary Butyl Ether	mg/l	<0.0001	-	0.015	Taste / odour threshold	0	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Benzene	mg/l	<0.0005	0.001	0.001	UK DWS (2000)	0	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Toluene	mg/l	<0.005	0.004	0.7	WHO DWS (2011)	0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Ethylbenzene	mg/l	<0.001	-	0.3	WHO DWS (2011)	0	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Total Xylenes	mg/l	<0.003	0.003	0.5	WHO DWS (2011)	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
TPH CWG						-								
Aliphatics						-								
Aliphatics >C5-C6	mg/l	<0.01	-		WHO DWS (2008) /	0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Aliphatics >C6-C8	mg/l	<0.01	-		WHO DWS (2008) /	0	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01
Aliphatics >C8-C10	mg/l	<0.01	-		WHO DWS (2008) /	0	<0.01	<0.01	0.58	<0.01	<0.01	<0.01	<0.01	<0.01
Aliphatics >C10-C12	mg/l	<0.005	-		WHO DWS (2008) /	0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Aliphatics >C12-C16	mg/l	<0.01	-			0	<0.01	<0.01	0.13	<0.01	<0.01	<0.01	<0.01	<0.01
Aliphatics >C16-C21	mg/l	<0.01	-			0	<0.01	<0.01	0.21	<0.01	<0.01	<0.01	<0.01	<0.01
Aliphatics >C21-C35	mg/l	<0.01	-			0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Total aliphatics C5-35	mg/l	<0.01	-			0	<0.01	<0.01	0.94	<0.01	<0.01	<0.01	<0.01	<0.01
Aromatics			-			-								
Aromatics >EC5-EC7	mg/l	<0.01	-		WHO DWS (2008) /	0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Aromatics >EC7-EC8	mg/l	<0.01	-		WHO DWS (2008) /	0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Aromatics >EC8-EC10	mg/l	<0.01	-		WHO DWS (2008) /	0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Aromatics >EC10-EC12	mg/l	<0.005	-		WHO DWS (2008) /	0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Aromatics >EC12-EC16	mg/l	<0.01	-		WHO DWS (2008) /	0	<0.01	<0.01	0.1	<0.01	<0.01	<0.01	<0.01	<0.01
Aromatics >EC16-EC21	mg/l	<0.01	-		WHO DWS (2008) /	0	<0.01	<0.01	0.13	<0.01	<0.01	<0.01	<0.01	<0.01
Aromatics >EC21-EC35	mg/l	<0.01	-		WHO DWS (2008) /	0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Total aromatics C5-35	mg/l	<0.01	-			0	<0.01	<0.01	0.23	<0.01	<0.01	<0.01	<0.01	<0.01
Total aliphatics and aromatics(C5-35)	mg/l	<0.01	-			0	<0.01	<0.01	1.17	<0.01	<0.01	<0.01	<0.01	<0.01

Compiled Water Quality Data

Exceeds WQS
Exceeds LOD
Exceeds MRV

BOLD

Client Name	2 Sisters Food Group
Site Name	Llangefni
Job Number	406.064893.00001
Date	28/09/2023
Media	Groundwater
WQS Type	DWS

Sample ID	BH9	BH10	BH11	BH12	BH13	BH14	BH15
Depth	0.3	0.348	0.527	1.193	1.15	1.483	1.505
Sample Type	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water
Sampled Date	19/09/23	19/09/23	19/09/23	20/09/23	20/09/23	20/09/23	20/09/23
Sample Received Date	23/09/23	23/09/23	23/09/23	23/09/23	23/09/23	23/09/23	23/09/23
EMT Sample No	25-32	9-16	1-8	65-72	73-80	81-88	89-96
Batch Number	1	1	1	1	1	1	1
0							

Test	Units (converted to mg/l)	LOD (mg/l)	Haz MRV	Selected WQS Value (mg/l)	WQS Type	Count Exceeding WQS							
PAH MS			-	-	-	-							
Naphthalene	mg/l	<0.0001	-	-	-	0	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Acenaphthylene	mg/l	<0.000005	-	-	-	0	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005
Acenaphthene	mg/l	<0.000005	-	-	-	0	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005
Fluorene	mg/l	<0.000005	-	-	-	0	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005
Phenanthrene	mg/l	<0.000005	-	-	-	0	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005
Anthracene	mg/l	<0.000005	-	-	-	0	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005
Fluoranthene	mg/l	<0.000005	-	-	-	0	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005
Pyrene	mg/l	<0.000005	-	-	-	0	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005
Benzo(a)anthracene	mg/l	<0.000005	-	-	-	0	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005
Chrysene	mg/l	<0.000005	-	-	-	0	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005
Benzo(bk)fluoranthene	mg/l	<0.000008	-	0.0001	UK DWS (2000)	0	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008
Benzo(a)pyrene	mg/l	<0.000005	-	0.00001	UK DWS (2000)	0	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005
Indeno(123cd)pyrene	mg/l	<0.000005	-	0.0001	UK DWS (2000)	0	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005
Dibenzo(ah)anthracene	mg/l	<0.000005	-	-	-	0	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005
Benzo(ghi)perylene	mg/l	<0.000005	-	0.0001	UK DWS (2000)	0	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005
PAH 16 Total	mg/l	<0.000173	-	-	-	0	<0.000173	<0.000173	<0.000173	<0.000173	<0.000173	<0.000173	<0.000173
Benzo(b)fluoranthene	mg/l	<0.000008	-	0.0001	UK DWS (2000)	0	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008
Benzo(k)fluoranthene	mg/l	<0.000008	-	0.0001	UK DWS (2000)	0	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008
PAH Surrogate % Recovery	%	<0	-	-	-	0	85	78	77	79	83	80	82
Methyl Tertiary Butyl Ether	mg/l	<0.0001	-	0.015	Taste / odour threshold	0	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Benzene	mg/l	<0.0005	0.001	0.001	UK DWS (2000)	0	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Toluene	mg/l	<0.005	0.004	0.7	WHO DWS (2011)	0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Ethylbenzene	mg/l	<0.001	-	0.3	WHO DWS (2011)	0	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Total Xylenes	mg/l	<0.003	0.003	0.5	WHO DWS (2011)	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
TPH CWG						-							
Aliphatics						-							
Aliphatics >C5-C6	mg/l	<0.01	-		WHO DWS (2008) /	0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Aliphatics >C6-C8	mg/l	<0.01	-		WHO DWS (2008) /	0	<0.01	<0.01	<0.01	0.04	<0.01	<0.01	<0.01
Aliphatics >C8-C10	mg/l	<0.01	-		WHO DWS (2008) /	0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Aliphatics >C10-C12	mg/l	<0.005	-		WHO DWS (2008) /	0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Aliphatics >C12-C16	mg/l	<0.01	-			0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Aliphatics >C16-C21	mg/l	<0.01	-			0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Aliphatics >C21-C35	mg/l	<0.01	-			0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Total aliphatics C5-35	mg/l	<0.01	-			0	<0.01	<0.01	<0.01	0.04	<0.01	<0.01	<0.01
Aromatics			-			-							
Aromatics >EC5-EC7	mg/l	<0.01	-		WHO DWS (2008) /	0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Aromatics >EC7-EC8	mg/l	<0.01	-		WHO DWS (2008) /	0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Aromatics >EC8-EC10	mg/l	<0.01	-		WHO DWS (2008) /	0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Aromatics >EC10-EC12	mg/l	<0.005	-		WHO DWS (2008) /	0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Aromatics >EC12-EC16	mg/l	<0.01	-		WHO DWS (2008) /	0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Aromatics >EC16-EC21	mg/l	<0.01	-		WHO DWS (2008) /	0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Aromatics >EC21-EC35	mg/l	<0.01	-		WHO DWS (2008) /	0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Total aromatics C5-35	mg/l	<0.01	-			0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Total aliphatics and aromatics(C5-35)	mg/l	<0.01	-			0	<0.01	<0.01	<0.01	0.04	<0.01	<0.01	<0.01

Compiled Water Quality Data

	Exceeds WQS
	Exceeds LOD
BOLD	Exceeds MRV

Client Name	2 Sisters Food Group
Site Name	Llangefni
Job Number	406.064893.00001
Date	28/09/2023
Media	Groundwater
WQS Type	DWS

Sample ID	SW-N	SW-M	SW-S
Depth			
Sample Type	Surface Water	Surface Water	Surface Water
Sampled Date	20/09/23	20/09/23	20/09/23
Sample Received Date	23/09/23	23/09/23	23/09/23
EMT Sample No	121-128	129-136	137-144
Batch Number	1	1	1
0			

Test	Units (converted to mg/l)	LOD (mg/l)	Haz MRV	Selected WQS Value (mg/l)	WQS Type	Count Exceeding WQS			
PAH MS			-	-	-	-			
Naphthalene	mg/l	<0.0001	-	-	-	0	<0.0001	<0.0001	<0.0001
Acenaphthylene	mg/l	<0.000005	-	-	-	0	<0.000005	<0.000005	<0.000005
Acenaphthene	mg/l	<0.000005	-	-	-	0	<0.000005	<0.000005	<0.000005
Fluorene	mg/l	<0.000005	-	-	-	0	<0.000005	<0.000005	<0.000005
Phenanthrene	mg/l	<0.000005	-	-	-	0	<0.000005	<0.000005	<0.000005
Anthracene	mg/l	<0.000005	-	-	-	0	<0.000005	<0.000005	<0.000005
Fluoranthene	mg/l	<0.000005	-	-	-	0	<0.000005	<0.000005	<0.000005
Pyrene	mg/l	<0.000005	-	-	-	0	<0.000005	<0.000005	<0.000005
Benzo(a)anthracene	mg/l	<0.000005	-	-	-	0	<0.000005	<0.000005	<0.000005
Chrysene	mg/l	<0.000005	-	-	-	0	<0.000005	<0.000005	<0.000005
Benzo(bk)fluoranthene	mg/l	<0.000008	-	0.0001	UK DWS (2000)	0	<0.000008	<0.000008	<0.000008
Benzo(a)pyrene	mg/l	<0.000005	-	0.00001	UK DWS (2000)	0	<0.000005	<0.000005	<0.000005
Indeno(123cd)pyrene	mg/l	<0.000005	-	0.0001	UK DWS (2000)	0	<0.000005	<0.000005	<0.000005
Dibenzo(ah)anthracene	mg/l	<0.000005	-	-	-	0	<0.000005	<0.000005	<0.000005
Benzo(ghi)perylene	mg/l	<0.000005	-	0.0001	UK DWS (2000)	0	<0.000005	<0.000005	<0.000005
PAH 16 Total	mg/l	<0.000173	-	-	-	0	<0.000173	<0.000173	<0.000173
Benzo(b)fluoranthene	mg/l	<0.000008	-	0.0001	UK DWS (2000)	0	<0.000008	<0.000008	<0.000008
Benzo(k)fluoranthene	mg/l	<0.000008	-	0.0001	UK DWS (2000)	0	<0.000008	<0.000008	<0.000008
PAH Surrogate % Recovery	%	<0	-	-	-	0	80	80	76
Methyl Tertiary Butyl Ether	mg/l	<0.0001	-	0.015	Taste / odour threshold	0	<0.0001	<0.0001	<0.0001
Benzene	mg/l	<0.0005	0.001	0.001	UK DWS (2000)	0	<0.0005	<0.0005	<0.0005
Toluene	mg/l	<0.005	0.004	0.7	WHO DWS (2011)	0	<0.005	<0.005	<0.005
Ethylbenzene	mg/l	<0.001	-	0.3	WHO DWS (2011)	0	<0.001	<0.001	<0.001
Total Xylenes	mg/l	<0.003	0.003	0.5	WHO DWS (2011)	0	<0.003	<0.003	<0.003
TPH CWG						-			
Aliphatics						-			
Aliphatics >C5-C6	mg/l	<0.01	-		WHO DWS (2008) /	0	<0.01	<0.01	<0.01
Aliphatics >C6-C8	mg/l	<0.01	-		WHO DWS (2008) /	0	<0.01	<0.01	<0.01
Aliphatics >C8-C10	mg/l	<0.01	-		WHO DWS (2008) /	0	<0.01	<0.01	<0.01
Aliphatics >C10-C12	mg/l	<0.005	-		WHO DWS (2008) /	0	<0.005	<0.005	<0.005
Aliphatics >C12-C16	mg/l	<0.01	-			0	<0.01	<0.01	<0.01
Aliphatics >C16-C21	mg/l	<0.01	-			0	<0.01	<0.01	<0.01
Aliphatics >C21-C35	mg/l	<0.01	-			0	<0.01	<0.01	<0.01
Total aliphatics C5-35	mg/l	<0.01	-			0	<0.01	<0.01	<0.01
Aromatics			-			-			
Aromatics >EC5-EC7	mg/l	<0.01	-		WHO DWS (2008) /	0	<0.01	<0.01	<0.01
Aromatics >EC7-EC8	mg/l	<0.01	-		WHO DWS (2008) /	0	<0.01	<0.01	<0.01
Aromatics >EC8-EC10	mg/l	<0.01	-		WHO DWS (2008) /	0	<0.01	<0.01	<0.01
Aromatics >EC10-EC12	mg/l	<0.005	-		WHO DWS (2008) /	0	<0.005	<0.005	<0.005
Aromatics >EC12-EC16	mg/l	<0.01	-		WHO DWS (2008) /	0	<0.01	<0.01	<0.01
Aromatics >EC16-EC21	mg/l	<0.01	-		WHO DWS (2008) /	0	<0.01	<0.01	<0.01
Aromatics >EC21-EC35	mg/l	<0.01	-		WHO DWS (2008) /	0	<0.01	<0.01	<0.01
Total aromatics C5-35	mg/l	<0.01	-			0	<0.01	<0.01	<0.01
Total aliphatics and aromatics(C5-35)	mg/l	<0.01	-			0	<0.01	<0.01	<0.01

Compiled Water Quality Data

Exceeds WQS
Exceeds LOD
Exceeds MRV

BOLD

Client Name	2 Sisters Food Group
Site Name	Llangefni
Job Number	406.064893.00001
Date	28/09/2023
Media	Groundwater
WQS Type	DWS

Sample ID	BH1	BH2	BH3	BH4	BH5	BH6	BH7	BH8
Depth	0.471	0.493	1.052	1.403	1.168	1.01	0.665	0.592
Sample Type	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water
Sampled Date	19/09/23	19/09/23	20/09/23	20/09/23	20/09/23	19/09/23	19/09/23	19/09/23
Sample Received Date	23/09/23	23/09/23	23/09/23	23/09/23	23/09/23	23/09/23	23/09/23	23/09/23
EMT Sample No	17-24	33-40	113-120	105-112	97-104	57-64	49-56	41-48
Batch Number	1	1	1	1	1	1	1	1
0								

Test	Units (converted to mg/l)	LOD (mg/l)	Haz MRV	Selected WQS Value (mg/l)	WQS Type	Count Exceeding WQS							
VOC MS			-	-	-	-							
Dichlorodifluoromethane	mg/l	<0.002	-	-	-	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Methyl Tertiary Butyl Ether	mg/l	<0.0001	-	0.015	Taste / odour threshold	0	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Chloromethane	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Vinyl Chloride	mg/l	<0.0001	-	0.0005	UK DWS (2000)	0	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Bromomethane	mg/l	<0.001	-	-	-	0	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chloroethane	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Trichlorofluoromethane	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
1,1-Dichloroethene	mg/l	<0.003	-	0.03	WHO DWS (2004)	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Dichloromethane	mg/l	<0.003	-	0.02	WHO DWS (2011)	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Trans-1-2-Dichloroethene	mg/l	<0.003	-	0.05	WHO DWS (2011)	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
1,1-Dichloroethane	mg/l	<0.003	-	-	USEPA MCL (2012)	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Cis-1-2-Dichloroethene	mg/l	<0.003	-	0.05	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
2,2-Dichloropropane	mg/l	<0.001	-	-	-	0	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromochloromethane	mg/l	<0.002	-	-	-	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Chloroform	mg/l	<0.002	0.0001	0.3	WHO DWS (2011)	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1,1,1-Trichloroethane	mg/l	<0.002	0.0001	0.2	USEPA MCL (2012)	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1,1-Dichloropropene	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Carbon Tetrachloride	mg/l	<0.002	0.0001	0.003	UK DWS (2000)	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1,2-Dichloroethane	mg/l	<0.002	0.001	0.003	UK DWS (2000)	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Benzene	mg/l	<0.0005	0.001	0.001	UK DWS (2000)	0	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Trichloroethene	mg/l	<0.003	-	0.01	UK DWS (2000)	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
1,2-Dichloropropane	mg/l	<0.002	-	0.04	WHO DWS (2011)	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Dibromomethane	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Bromodichloromethane	mg/l	<0.002	-	0.06	WHO DWS (2004)	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cis-1-3-Dichloropropene	mg/l	<0.002	-	-	-	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Toluene	mg/l	<0.005	0.004	0.7	WHO DWS (2011)	0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Trans-1-3-Dichloropropene	mg/l	<0.002	-	-	-	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1,1,2-Trichloroethane	mg/l	<0.002	0.00001	0.005	USEPA MCL (2012)	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Tetrachloroethene	mg/l	<0.003	0.0001	0.01	UK DWS (2000)	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
1,3-Dichloropropane	mg/l	<0.002	-	-	-	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Dibromochloromethane	mg/l	<0.002	-	0.1	WHO DWS (2004)	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1,2-Dibromoethane	mg/l	<0.002	-	0.0004	EU Guideline DWS (Annex	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Chlorobenzene	mg/l	<0.002	-	-	-	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1,1,1,2-Tetrachloroethane	mg/l	<0.002	-	-	-	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Ethylbenzene	mg/l	<0.001	-	0.3	WHO DWS (2011)	0	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
m/p-Xylene	mg/l	<0.002	0.003	0.5	WHO DWS (2011)	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
o-Xylene	mg/l	<0.001	0.003	0.5	WHO DWS (2011)	0	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Styrene	mg/l	<0.002	-	0.02	WHO DWS (2011)	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Bromoform	mg/l	<0.002	-	0.1	WHO DWS (2011)	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Isopropylbenzene	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
1,1,2,2-Tetrachloroethane	mg/l	<0.004	-	-	-	0	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Bromobenzene	mg/l	<0.002	-	-	-	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1,2,3-Trichloropropane	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Propylbenzene	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
2-Chlorotoluene	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
1,3,5-Trimethylbenzene	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
4-Chlorotoluene	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Tert-Butylbenzene	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
1,2,4-Trimethylbenzene	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Sec-Butylbenzene	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
4-Isopropyltoluene	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
1,3-Dichlorobenzene	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
1,4-Dichlorobenzene	mg/l	<0.003	-	0.3	WHO DWS (2011)	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
n-Butylbenzene	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
1,2-Dichlorobenzene	mg/l	<0.003	-	1	WHO DWS (2011)	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
1,2-Dibromo-3-Chloropropane	mg/l	<0.002	-	0.001	EU Guideline DWS (Annex	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1,2,4-Trichlorobenzene	mg/l	<0.003	0.00001	-	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Hexachlorobutadiene	mg/l	<0.003	0.000005	0.0006	WHO DWS (2011)	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Naphthalene	mg/l	<0.002	-	-	-	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1,2,3-Trichlorobenzene	mg/l	<0.003	0.00001	-	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003

Compiled Water Quality Data

Exceeds WQS
Exceeds LOD
Exceeds MRV

BOLD

Client Name	2 Sisters Food Group
Site Name	Llangefni
Job Number	406.064893.00001
Date	28/09/2023
Media	Groundwater
WQS Type	DWS

Sample ID	BH9	BH10	BH11	BH12	BH13	BH14	BH15
Depth	0.3	0.348	0.527	1.193	1.15	1.483	1.505
Sample Type	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water
Sampled Date	19/09/23	19/09/23	19/09/23	20/09/23	20/09/23	20/09/23	20/09/23
Sample Received Date	23/09/23	23/09/23	23/09/23	23/09/23	23/09/23	23/09/23	23/09/23
EMT Sample No	25-32	9-16	1-8	65-72	73-80	81-88	89-96
Batch Number	1	1	1	1	1	1	1
0							

Test	Units (converted to mg/l)	LOD (mg/l)	Haz MRV	Selected WQS Value (mg/l)	WQS Type	Count Exceeding WQS						
VOC MS			-	-	-	-						
Dichlorodifluoromethane	mg/l	<0.002	-	-	-	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Methyl Tertiary Butyl Ether	mg/l	<0.0001	-	0.015	Taste / odour threshold	0	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Chloromethane	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Vinyl Chloride	mg/l	<0.0001	-	0.0005	UK DWS (2000)	0	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Bromomethane	mg/l	<0.001	-	-	-	0	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chloroethane	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Trichlorofluoromethane	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003	0.036	0.097	<0.003	<0.003
1,1-Dichloroethene	mg/l	<0.003	-	0.03	WHO DWS (2004)	0	<0.003	<0.003	<0.003	0.007	<0.003	<0.003	<0.003
Dichloromethane	mg/l	<0.003	-	0.02	WHO DWS (2011)	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Trans-1-2-Dichloroethene	mg/l	<0.003	-	0.05	WHO DWS (2011)	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
1,1-Dichloroethane	mg/l	<0.003	-	-	USEPA MCL (2012)	0	<0.003	<0.003	<0.003	0.066	0.005	<0.003	<0.003
Cis-1-2-Dichloroethene	mg/l	<0.003	-	0.05	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
2,2-Dichloropropane	mg/l	<0.001	-	-	-	0	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromochloromethane	mg/l	<0.002	-	-	-	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Chloroform	mg/l	<0.002	0.0001	0.3	WHO DWS (2011)	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1,1,1-Trichloroethane	mg/l	<0.002	0.0001	0.2	USEPA MCL (2012)	0	<0.002	<0.002	<0.002	**0.073**	**0.012**	<0.002	<0.002
1,1-Dichloropropene	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Carbon Tetrachloride	mg/l	<0.002	0.0001	0.003	UK DWS (2000)	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1,2-Dichloroethane	mg/l	<0.002	0.001	0.003	UK DWS (2000)	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Benzene	mg/l	<0.0005	0.001	0.001	UK DWS (2000)	0	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Trichloroethene	mg/l	<0.003	-	0.01	UK DWS (2000)	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
1,2-Dichloropropane	mg/l	<0.002	-	0.04	WHO DWS (2011)	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Dibromomethane	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Bromodichloromethane	mg/l	<0.002	-	0.06	WHO DWS (2004)	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cis-1-3-Dichloropropene	mg/l	<0.002	-	-	-	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Toluene	mg/l	<0.005	0.004	0.7	WHO DWS (2011)	0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Trans-1-3-Dichloropropene	mg/l	<0.002	-	-	-	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1,1,2-Trichloroethane	mg/l	<0.002	0.00001	0.005	USEPA MCL (2012)	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Tetrachloroethene	mg/l	<0.003	0.0001	0.01	UK DWS (2000)	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
1,3-Dichloropropane	mg/l	<0.002	-	-	-	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Dibromochloromethane	mg/l	<0.002	-	0.1	WHO DWS (2004)	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1,2-Dibromoethane	mg/l	<0.002	-	0.0004	EU Guideline DWS (Annex	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Chlorobenzene	mg/l	<0.002	-	-	-	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1,1,1,2-Tetrachloroethane	mg/l	<0.002	-	-	-	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Ethylbenzene	mg/l	<0.001	-	0.3	WHO DWS (2011)	0	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
m/p-Xylene	mg/l	<0.002	0.003	0.5	WHO DWS (2011)	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
o-Xylene	mg/l	<0.001	0.003	0.5	WHO DWS (2011)	0	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Styrene	mg/l	<0.002	-	0.02	WHO DWS (2011)	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Bromoform	mg/l	<0.002	-	0.1	WHO DWS (2011)	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Isopropylbenzene	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
1,1,2,2-Tetrachloroethane	mg/l	<0.004	-	-	-	0	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Bromobenzene	mg/l	<0.002	-	-	-	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1,2,3-Trichloropropane	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Propylbenzene	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
2-Chlorotoluene	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
1,3,5-Trimethylbenzene	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
4-Chlorotoluene	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Tert-Butylbenzene	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
1,2,4-Trimethylbenzene	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Sec-Butylbenzene	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
4-Isopropyltoluene	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
1,3-Dichlorobenzene	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
1,4-Dichlorobenzene	mg/l	<0.003	-	0.3	WHO DWS (2011)	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
n-Butylbenzene	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
1,2-Dichlorobenzene	mg/l	<0.003	-	1	WHO DWS (2011)	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
1,2-Dibromo-3-Chloropropane	mg/l	<0.002	-	0.001	EU Guideline DWS (Annex	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1,2,4-Trichlorobenzene	mg/l	<0.003	0.00001	-	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Hexachlorobutadiene	mg/l	<0.003	0.000005	0.0006	WHO DWS (2011)	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Naphthalene	mg/l	<0.002	-	-	-	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1,2,3-Trichlorobenzene	mg/l	<0.003	0.00001	-	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003

Compiled Water Quality Data

Exceeds WQS
Exceeds LOD
Exceeds MRV

BOLD

Client Name	2 Sisters Food Group
Site Name	Llangefni
Job Number	406.064893.00001
Date	28/09/2023
Media	Groundwater
WQS Type	DWS

Sample ID	SW-N	SW-M	SW-S
Depth			
Sample Type	Surface Water	Surface Water	Surface Water
Sampled Date	20/09/23	20/09/23	20/09/23
Sample Received Date	23/09/23	23/09/23	23/09/23
EMT Sample No	121-128	129-136	137-144
Batch Number	1	1	1
0			

Test	Units (converted to mg/l)	LOD (mg/l)	Haz MRV	Selected WQS Value (mg/l)	WQS Type	Count Exceeding WQS			
VOC MS			-	-	-	-			
Dichlorodifluoromethane	mg/l	<0.002	-	-	-	0	<0.002	<0.002	<0.002
Methyl Tertiary Butyl Ether	mg/l	<0.0001	-	0.015	Taste / odour threshold	0	<0.0001	<0.0001	<0.0001
Chloromethane	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003
Vinyl Chloride	mg/l	<0.0001	-	0.0005	UK DWS (2000)	0	<0.0001	<0.0001	<0.0001
Bromomethane	mg/l	<0.001	-	-	-	0	<0.001	<0.001	<0.001
Chloroethane	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003
Trichlorofluoromethane	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003
1,1-Dichloroethene	mg/l	<0.003	-	0.03	WHO DWS (2004)	0	<0.003	<0.003	<0.003
Dichloromethane	mg/l	<0.003	-	0.02	WHO DWS (2011)	0	<0.003	<0.003	<0.003
Trans-1-2-Dichloroethene	mg/l	<0.003	-	0.05	WHO DWS (2011)	0	<0.003	<0.003	<0.003
1,1-Dichloroethane	mg/l	<0.003	-	-	USEPA MCL (2012)	0	<0.003	<0.003	<0.003
Cis-1-2-Dichloroethene	mg/l	<0.003	-	0.05	-	0	<0.003	<0.003	<0.003
2,2-Dichloropropane	mg/l	<0.001	-	-	-	0	<0.001	<0.001	<0.001
Bromochloromethane	mg/l	<0.002	-	-	-	0	<0.002	<0.002	<0.002
Chloroform	mg/l	<0.002	0.0001	0.3	WHO DWS (2011)	0	<0.002	<0.002	<0.002
1,1,1-Trichloroethane	mg/l	<0.002	0.0001	0.2	USEPA MCL (2012)	0	<0.002	<0.002	<0.002
1,1-Dichloropropene	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003
Carbon Tetrachloride	mg/l	<0.002	0.0001	0.003	UK DWS (2000)	0	<0.002	<0.002	<0.002
1,2-Dichloroethane	mg/l	<0.002	0.001	0.003	UK DWS (2000)	0	<0.002	<0.002	<0.002
Benzene	mg/l	<0.0005	0.001	0.001	UK DWS (2000)	0	<0.0005	<0.0005	<0.0005
Trichloroethene	mg/l	<0.003	-	0.01	UK DWS (2000)	0	<0.003	<0.003	<0.003
1,2-Dichloropropane	mg/l	<0.002	-	0.04	WHO DWS (2011)	0	<0.002	<0.002	<0.002
Dibromomethane	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003
Bromodichloromethane	mg/l	<0.002	-	0.06	WHO DWS (2004)	0	<0.002	<0.002	<0.002
Cis-1-3-Dichloropropene	mg/l	<0.002	-	-	-	0	<0.002	<0.002	<0.002
Toluene	mg/l	<0.005	0.004	0.7	WHO DWS (2011)	0	<0.005	<0.005	<0.005
Trans-1-3-Dichloropropene	mg/l	<0.002	-	-	-	0	<0.002	<0.002	<0.002
1,1,2-Trichloroethane	mg/l	<0.002	0.00001	0.005	USEPA MCL (2012)	0	<0.002	<0.002	<0.002
Tetrachloroethene	mg/l	<0.003	0.0001	0.01	UK DWS (2000)	0	<0.003	<0.003	<0.003
1,3-Dichloropropane	mg/l	<0.002	-	-	-	0	<0.002	<0.002	<0.002
Dibromochloromethane	mg/l	<0.002	-	0.1	WHO DWS (2004)	0	<0.002	<0.002	<0.002
1,2-Dibromoethane	mg/l	<0.002	-	0.0004	EU Guideline DWS (Annex	0	<0.002	<0.002	<0.002
Chlorobenzene	mg/l	<0.002	-	-	-	0	<0.002	<0.002	<0.002
1,1,1,2-Tetrachloroethane	mg/l	<0.002	-	-	-	0	<0.002	<0.002	<0.002
Ethylbenzene	mg/l	<0.001	-	0.3	WHO DWS (2011)	0	<0.001	<0.001	<0.001
m/p-Xylene	mg/l	<0.002	0.003	0.5	WHO DWS (2011)	0	<0.002	<0.002	<0.002
o-Xylene	mg/l	<0.001	0.003	0.5	WHO DWS (2011)	0	<0.001	<0.001	<0.001
Styrene	mg/l	<0.002	-	0.02	WHO DWS (2011)	0	<0.002	<0.002	<0.002
Bromoform	mg/l	<0.002	-	0.1	WHO DWS (2011)	0	<0.002	<0.002	<0.002
Isopropylbenzene	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003
1,1,2,2-Tetrachloroethane	mg/l	<0.004	-	-	-	0	<0.004	<0.004	<0.004
Bromobenzene	mg/l	<0.002	-	-	-	0	<0.002	<0.002	<0.002
1,2,3-Trichloropropane	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003
Propylbenzene	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003
2-Chlorotoluene	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003
1,3,5-Trimethylbenzene	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003
4-Chlorotoluene	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003
Tert-Butylbenzene	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003
1,2,4-Trimethylbenzene	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003
Sec-Butylbenzene	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003
4-Isopropyltoluene	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003
1,3-Dichlorobenzene	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003
1,4-Dichlorobenzene	mg/l	<0.003	-	0.3	WHO DWS (2011)	0	<0.003	<0.003	<0.003
n-Butylbenzene	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003
1,2-Dichlorobenzene	mg/l	<0.003	-	1	WHO DWS (2011)	0	<0.003	<0.003	<0.003
1,2-Dibromo-3-Chloropropane	mg/l	<0.002	-	0.001	EU Guideline DWS (Annex	0	<0.002	<0.002	<0.002
1,2,4-Trichlorobenzene	mg/l	<0.003	0.00001	-	-	0	<0.003	<0.003	<0.003
Hexachlorobutadiene	mg/l	<0.003	0.000005	0.0006	WHO DWS (2011)	0	<0.003	<0.003	<0.003
Naphthalene	mg/l	<0.002	-	-	-	0	<0.002	<0.002	<0.002
1,2,3-Trichlorobenzene	mg/l	<0.003	0.00001	-	-	0	<0.003	<0.003	<0.003

Compiled Water Quality Data

	Exceeds WQS
	Exceeds LOD
BOLD	Exceeds MRV

Client Name	2 Sisters Food Group
Site Name	Llangefni
Job Number	406.064893.00001
Date	28/09/2023
Media	Groundwater
WQS Type	Freshwater EQS

Sample ID	BH1	BH2	BH3	BH4	BH5	BH6	BH7	BH8
Depth	0.471	0.493	1.052	1.403	1.168	1.01	0.665	0.592
Sample Type	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water
Sampled Date	19/09/23	19/09/23	20/09/23	20/09/23	20/09/23	19/09/23	19/09/23	19/09/23
Sample Received Date	23/09/23	23/09/23	23/09/23	23/09/23	23/09/23	23/09/23	23/09/23	23/09/23
EMT Sample No	17-24	33-40	113-120	105-112	97-104	57-64	49-56	41-48
Batch Number	1	1	1	1	1	1	1	1
0								

Test	Units (converted to mg/l)	LOD (mg/l)	Haz MRV	Selected WQS Value (mg/l)	WQS Type	Count Exceeding WQS								
Dissolved Arsenic	mg/l	<0.0009	-	0.05	UK EQS (WFD 2015)	0	0.0015	<0.0009	0.0011	0.0031	<0.0009	0.0018	<0.0009	0.0034
Dissolved Cadmium	mg/l	<0.00003	0.0001	0.00008	UK EQS (WFD 2015) (<40mg/l CaCO3)	3	<0.00003	<0.00003	0.00004	<0.00003	<0.00003	0.00004	0.00007	0.00008
Total Dissolved Chromium	mg/l	<0.0002	-	0.0047	UK EQS (WFD 2015)	7	0.008	0.0085	<0.0002	0.0032	<0.0002	0.0066	0.0049	0.0039
Dissolved Copper	mg/l	<0.001	-	1	UK EQS (WFD 2015) (mBAT)	0	0.002	<0.001	0.001	0.005	<0.001	0.002	0.003	0.004
Dissolved Lead	mg/l	<0.0004	-	0.0012	EU EQS Standards (2013) - AA	3	<0.0004	<0.0004	<0.0004	0.0009	<0.0004	0.0006	<0.0004	0.0005
Dissolved Mercury	mg/l	<0.0005	0.00001	0.00005	UK EQS (WFD 2015)	0	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Dissolved Nickel	mg/l	<0.0002	-	0.004	EU EQS Standards (2013) - AA	7	0.0031	0.0013	0.0018	0.0037	0.005	0.02	0.0032	0.014
Dissolved Selenium	mg/l	<0.0012	-	-	-	0	<0.0012	<0.0012	<0.0012	0.011	<0.0012	0.03	<0.0012	0.0019
Dissolved Zinc	mg/l	<0.0015	-	0.0109	UK EQS (WFD 2015) (mBAT)	0	0.0034	0.0089	0.0018	0.0056	0.0025	0.0052	0.0022	0.0047
Chloride	mg/l	<0.3	-	250	UK Non-Statuatory EQS (DSD)	1	36	80	99	48	48	98	56	260
OrthoPhosphate as PO4	mg/l	<0.06	-	-	-	0	<0.06	0.09	<0.06	<0.06	<0.06	<0.06	0.13	<0.06
COD	mg/l	<7	-	-	-	0	16	<7	29	48	16	<7	<7	<7
BOD	mg/l	<1	-	-	-	0	<1	<1	3	<1	2	<1	4	<1
Nitrate as N	mg/l	<0.05	-	-	-	0	0.83	0.97	<0.05	1.7	<0.05	3.4	11	<0.05
Ammoniacal Nitrogen as NH4	mg/l	<0.03	-	0.77	(Total Ammonia as	3	0.08	<0.03	<0.03	0.29	1.18	0.04	<0.03	12.27
Electrical Conductivity @25C	uS/cm	<2	-	-	-	0	590	670	700	910	670	1700	770	1600
pH	pH units	<0.01	-	-	-	0	7.9	8	7.8	7.8	7.5	7.6	7.8	7.9
Total Organic Carbon	mg/l	<2	-	-	-	0	3	<2	6	15	<2	29	<2	<2
PCB 28	mg/l	<0.0001	0.000001	-	-	0	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
PCB 52	mg/l	<0.0001	0.000001	-	-	0	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
PCB 101	mg/l	<0.0001	0.000001	-	-	0	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
PCB 118	mg/l	<0.0001	0.000001	-	-	0	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
PCB 138	mg/l	<0.0001	0.000001	-	-	0	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
PCB 153	mg/l	<0.0001	0.000001	-	-	0	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
PCB 180	mg/l	<0.0001	0.000001	-	-	0	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Total 7 PCBs	mg/l	<0.0007	-	-	-	0	<0.0007	<0.0007	<0.0007	<0.0007	<0.0007	<0.0007	<0.0007	<0.0007

Compiled Water Quality Data

	Exceeds WQS
	Exceeds LOD
BOLD	Exceeds MRV

Client Name	2 Sisters Food Group
Site Name	Llangefni
Job Number	406.064893.00001
Date	28/09/2023
Media	Groundwater
WQS Type	Freshwater EQS

Sample ID	BH9	BH10	BH11	BH12	BH13	BH14	BH15
Depth	0.3	0.348	0.527	1.193	1.15	1.483	1.505
Sample Type	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water
Sampled Date	19/09/23	19/09/23	19/09/23	20/09/23	20/09/23	20/09/23	20/09/23
Sample Received Date	23/09/23	23/09/23	23/09/23	23/09/23	23/09/23	23/09/23	23/09/23
EMT Sample No	25-32	9-16	1-8	65-72	73-80	81-88	89-96
Batch Number	1	1	1	1	1	1	1
0							

Test	**Units (converted to mg/l)**	**LOD (mg/l)**	**Haz MRV**	**Selected WQS Value (mg/l)**	**WQS Type**	**Count Exceeding WQS**							
Dissolved Arsenic	mg/l	<0.0009	-	0.05	UK EQS (WFD 2015)	0	0.002	0.0012	0.0016	<0.0009	<0.0009	<0.0009	0.0015
Dissolved Cadmium	mg/l	<0.00003	0.0001	0.00008	UK EQS (WFD 2015) (<40mg/l CaCO3)	3	0.00003	<0.00003	0.00007	**0.00065**	**0.0029**	<0.00003	**0.00012**
Total Dissolved Chromium	mg/l	<0.0002	-	0.0047	UK EQS (WFD 2015)	7	0.0009	<0.0002	0.0002	0.001	0.0034	0.0039	<0.0002
Dissolved Copper	mg/l	<0.001	-	1	UK EQS (WFD 2015) (mBAT)	0	0.003	<0.001	0.001	0.004	0.015	0.002	<0.001
Dissolved Lead	mg/l	<0.0004	-	0.0012	EU EQS Standards (2013) - AA	3	<0.0004	<0.0004	<0.0004	0.0075	0.02	<0.0004	0.0027
Dissolved Mercury	mg/l	<0.0005	0.00001	0.00005	UK EQS (WFD 2015)	0	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Dissolved Nickel	mg/l	<0.0002	-	0.004	EU EQS Standards (2013) - AA	7	0.0037	0.0038	0.005	0.034	0.096	0.0004	0.22
Dissolved Selenium	mg/l	<0.0012	-	-	-	0	<0.0012	<0.0012	<0.0012	0.002	<0.0012	<0.0012	<0.0012
Dissolved Zinc	mg/l	<0.0015	-	0.0109	UK EQS (WFD 2015) (mBAT)	0	0.0034	0.0063	0.0076	0.0054	0.0084	<0.0015	0.0026
Chloride	mg/l	<0.3	-	250	UK Non-Statuatory EQS (DSD)	1	43	24	11	15	88	19	120
OrthoPhosphate as PO4	mg/l	<0.06	-	-	-	0	0.2	0.23	0.24	<0.06	<0.06	<0.06	<0.06
COD	mg/l	<7	-	-	-	0	14	11	8	12	<7	10	24
BOD	mg/l	<1	-	-	-	0	1	<1	<1	<1	<1	<1	3
Nitrate as N	mg/l	<0.05	-	-	-	0	0.9	0.5	0.49	0.36	<0.05	0.08	0.07
Ammoniacal Nitrogen as NH4	mg/l	<0.03	-	0.77	(Total Ammonia as	3	0.13	0.26	<0.03	0.11	<0.03	0.12	2.04
Electrical Conductivity @25C	uS/cm	<2	-	-	-	0	660	560	350	590	930	400	960
pH	pH units	<0.01	-	-	-	0	7.8	7.8	8	7.8	7.5	7.6	7.5
Total Organic Carbon	mg/l	<2	-	-	-	0	<2	<2	<2	<2	<2	3	<2
PCB 28	mg/l	<0.0001	0.000001	-	-	0	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
PCB 52	mg/l	<0.0001	0.000001	-	-	0	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
PCB 101	mg/l	<0.0001	0.000001	-	-	0	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
PCB 118	mg/l	<0.0001	0.000001	-	-	0	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
PCB 138	mg/l	<0.0001	0.000001	-	-	0	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
PCB 153	mg/l	<0.0001	0.000001	-	-	0	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
PCB 180	mg/l	<0.0001	0.000001	-	-	0	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Total 7 PCBs	mg/l	<0.0007	-	-	-	0	<0.0007	<0.0007	<0.0007	<0.0007	<0.0007	<0.0007	<0.0007

Compiled Water Quality Data

Exceeds WQS
Exceeds LOD
Exceeds MRV

BOLD

Client Name	2 Sisters Food Group
Site Name	Llangefni
Job Number	406.064893.00001
Date	28/09/2023
Media	Groundwater
WQS Type	Freshwater EQS

Sample ID	SW-N	SW-M	SW-S
Depth			
Sample Type	Surface Water	Surface Water	Surface Water
Sampled Date	20/09/23	20/09/23	20/09/23
Sample Received Date	23/09/23	23/09/23	23/09/23
EMT Sample No	121-128	129-136	137-144
Batch Number	1	1	1
0			

Test	Units (converted to mg/l)	LOD (mg/l)	Haz MRV	Selected WQS Value (mg/l)	WQS Type	Count Exceeding WQS			
Dissolved Arsenic	mg/l	<0.0009	-	0.05	UK EQS (WFD 2015)	0	0.0013	0.0013	0.0014
Dissolved Cadmium	mg/l	<0.00003	0.0001	0.00008	UK EQS (WFD 2015) (<40mg/l CaCO3)	3	<0.00003	<0.00003	<0.00003
Total Dissolved Chromium	mg/l	<0.0002	-	0.0047	UK EQS (WFD 2015)	7	0.0071	0.007	0.0072
Dissolved Copper	mg/l	<0.001	-	1	UK EQS (WFD 2015) (mBAT)	0	0.005	0.005	0.005
Dissolved Lead	mg/l	<0.0004	-	0.0012	EU EQS Standards (2013) - AA	3	0.0007	0.0005	0.0011
Dissolved Mercury	mg/l	<0.0005	0.00001	0.00005	UK EQS (WFD 2015)	0	<0.0005	<0.0005	<0.0005
Dissolved Nickel	mg/l	<0.0002	-	0.004	EU EQS Standards (2013) - AA	7	0.002	0.0019	0.002
Dissolved Selenium	mg/l	<0.0012	-	-	-	0	<0.0012	<0.0012	<0.0012
Dissolved Zinc	mg/l	<0.0015	-	0.0109	UK EQS (WFD 2015) (mBAT)	0	0.0039	0.0039	0.0062
Chloride	mg/l	<0.3	-	250	UK Non-Statuatory EQS (DSD)	1	18	18	18
OrthoPhosphate as PO4	mg/l	<0.06	-	-	-	0	0.09	0.17	0.08
COD	mg/l	<7	-	-	-	0	28	36	27
BOD	mg/l	<1	-	-	-	0	2	1	1
Nitrate as N	mg/l	<0.05	-	-	-	0	0.45	0.43	0.43
Ammoniacal Nitrogen as NH4	mg/l	<0.03	-	0.77	(Total Ammonia as	3	0.09	0.09	0.09
Electrical Conductivity @25C	uS/cm	<2	-	-	-	0	270	270	270
pH	pH units	<0.01	-	-	-	0	8	8	8
Total Organic Carbon	mg/l	<2	-	-	-	0	13	13	13
PCB 28	mg/l	<0.0001	0.000001	-	-	0	<0.0001	<0.0001	<0.0001
PCB 52	mg/l	<0.0001	0.000001	-	-	0	<0.0001	<0.0001	<0.0001
PCB 101	mg/l	<0.0001	0.000001	-	-	0	<0.0001	<0.0001	<0.0001
PCB 118	mg/l	<0.0001	0.000001	-	-	0	<0.0001	<0.0001	<0.0001
PCB 138	mg/l	<0.0001	0.000001	-	-	0	<0.0001	<0.0001	<0.0001
PCB 153	mg/l	<0.0001	0.000001	-	-	0	<0.0001	<0.0001	<0.0001
PCB 180	mg/l	<0.0001	0.000001	-	-	0	<0.0001	<0.0001	<0.0001
Total 7 PCBs	mg/l	<0.0007	-	-	-	0	<0.0007	<0.0007	<0.0007

Compiled Water Quality Data

	Exceeds WQS
	Exceeds LOD
BOLD	Exceeds MRV

Client Name	2 Sisters Food Group
Site Name	Llangefni
Job Number	406.064893.00001
Date	28/09/2023
Media	Groundwater
WQS Type	Freshwater EQS

Sample ID	BH1	BH2	BH3	BH4	BH5	BH6	BH7	BH8
Depth	0.471	0.493	1.052	1.403	1.168	1.01	0.665	0.592
Sample Type	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water
Sampled Date	19/09/23	19/09/23	20/09/23	20/09/23	20/09/23	19/09/23	19/09/23	19/09/23
Sample Received Date	23/09/23	23/09/23	23/09/23	23/09/23	23/09/23	23/09/23	23/09/23	23/09/23
EMT Sample No	17-24	33-40	113-120	105-112	97-104	57-64	49-56	41-48
Batch Number	1	1	1	1	1	1	1	1
0								

Test	**Units (converted to mg/l)**	**LOD (mg/l)**	**Haz MRV**	**Selected WQS Value (mg/l)**	**WQS Type**	**Count Exceeding WQS**							
PAH MS			-	-	-	-							
Naphthalene	mg/l	<0.0001	-	0.002	EU EQS Standards (2013) -	0	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Acenaphthylene	mg/l	<0.000005	-	-	-	0	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005
Acenaphthene	mg/l	<0.000005	-	-	-	0	<0.000005	<0.000005	<0.000005	<0.000005	0.000014	<0.000005	<0.000005	0.000008
Fluorene	mg/l	<0.000005	-	-	-	0	<0.000005	<0.000005	<0.000005	<0.000005	0.000005	<0.000005	<0.000005	<0.000005
Phenanthrene	mg/l	<0.000005	-	-	-	0	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	0.000005
Anthracene	mg/l	<0.000005	-	0.0001	EU EQS Standards (2013) -	0	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005
Fluoranthene	mg/l	<0.000005	-	0.0000063	EU EQS Standards (2013) -	1	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	0.000015
Pyrene	mg/l	<0.000005	-	-	-	0	<0.000005	<0.000005	0.000047	<0.000005	<0.000005	<0.000005	<0.000005	0.000021
Benzo(a)anthracene	mg/l	<0.000005	-	-	-	0	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005
Chrysene	mg/l	<0.000005	-	-	-	0	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005
Benzo(bk)fluoranthene	mg/l	<0.000008	-	0.00003	UK EQS (WFD 2015)	0	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008
Benzo(a)pyrene	mg/l	<0.000005	-	0.00017	EU EQS Standards (2013) -	0	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005
Indeno(123cd)pyrene	mg/l	<0.000005	-	0.000002	UK EQS (WFD 2015)	0	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005
Dibenzo(ah)anthracene	mg/l	<0.000005	-	-	-	0	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005
Benzo(ghi)perylene	mg/l	<0.000005	-	0.000002	UK EQS (WFD 2015)	0	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005
PAH 16 Total	mg/l	<0.000173	-	-	-	0	<0.000173	<0.000173	<0.000173	<0.000173	<0.000173	<0.000173	<0.000173	<0.000173
Benzo(b)fluoranthene	mg/l	<0.000008	-	0.00003	UK EQS (WFD 2015)	0	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008
Benzo(k)fluoranthene	mg/l	<0.000008	-	0.00003	UK EQS (WFD 2015)	0	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008
Methyl Tertiary Butyl Ether	mg/l	<0.0001	-	-	-	0	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Benzene	mg/l	<0.0005	0.001	0.01	UK EQS (WFD 2015)	0	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Toluene	mg/l	<0.005	0.004	0.074	UK EQS (WFD 2015)	0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Ethylbenzene	mg/l	<0.001	-	0.02	Proposed EQS	0	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Total Xylenes	mg/l	<0.003	0.003	0.03	UK EQS (WFD 2015)	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
TPH CWG						-								
Aliphatics						-								
Aliphatics >C5-C6	mg/l	<0.01	-	0.01	Typical LoD	0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Aliphatics >C6-C8	mg/l	<0.01	-	0.01	Typical LoD	2	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01
Aliphatics >C8-C10	mg/l	<0.01	-	0.01	Typical LoD	1	<0.01	<0.01	0.58	<0.01	<0.01	<0.01	<0.01	<0.01
Aliphatics >C10-C12	mg/l	<0.005	-	0.01	Typical LoD	0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Aliphatics >C12-C16	mg/l	<0.01	-	0.01	Typical LoD	1	<0.01	<0.01	0.13	<0.01	<0.01	<0.01	<0.01	<0.01
Aliphatics >C16-C21	mg/l	<0.01	-	0.01	Typical LoD	1	<0.01	<0.01	0.21	<0.01	<0.01	<0.01	<0.01	<0.01
Aliphatics >C21-C35	mg/l	<0.01	-	0.01	Typical LoD	0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Total aliphatics C5-35	mg/l	<0.01	-	0.01	Typical LoD	2	<0.01	<0.01	0.94	<0.01	<0.01	<0.01	<0.01	<0.01
Aromatics			-	0.01	Typical LoD	-								
Aromatics >EC5-EC7	mg/l	<0.01	-	0.01	Typical LoD	0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Aromatics >EC7-EC8	mg/l	<0.01	-	0.01	Typical LoD	0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Aromatics >EC8-EC10	mg/l	<0.01	-	0.01	Typical LoD	0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Aromatics >EC10-EC12	mg/l	<0.005	-	0.01	Typical LoD	0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Aromatics >EC12-EC16	mg/l	<0.01	-	0.01	Typical LoD	1	<0.01	<0.01	0.1	<0.01	<0.01	<0.01	<0.01	<0.01
Aromatics >EC16-EC21	mg/l	<0.01	-	0.01	Typical LoD	1	<0.01	<0.01	0.13	<0.01	<0.01	<0.01	<0.01	<0.01
Aromatics >EC21-EC35	mg/l	<0.01	-	0.01	Typical LoD	0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Total aromatics C5-35	mg/l	<0.01	-	0.01	Typical LoD	1	<0.01	<0.01	0.23	<0.01	<0.01	<0.01	<0.01	<0.01
Total aliphatics and aromatics(C5-35)	mg/l	<0.01	-	0.01	Typical LoD	2	<0.01	<0.01	1.17	<0.01	<0.01	<0.01	<0.01	<0.01

Compiled Water Quality Data

Exceeds WQS
Exceeds LOD
Exceeds MRV

BOLD

Client Name	2 Sisters Food Group
Site Name	Llangefni
Job Number	406.064893.00001
Date	28/09/2023
Media	Groundwater
WQS Type	Freshwater EQS

Sample ID	BH9	BH10	BH11	BH12	BH13	BH14	BH15
Depth	0.3	0.348	0.527	1.193	1.15	1.483	1.505
Sample Type	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water
Sampled Date	19/09/23	19/09/23	19/09/23	20/09/23	20/09/23	20/09/23	20/09/23
Sample Received Date	23/09/23	23/09/23	23/09/23	23/09/23	23/09/23	23/09/23	23/09/23
EMT Sample No	25-32	9-16	1-8	65-72	73-80	81-88	89-96
Batch Number	1	1	1	1	1	1	1
0							

Test	Units (converted to mg/l)	LOD (mg/l)	Haz MRV	Selected WQS Value (mg/l)	WQS Type	Count Exceeding WQS						
PAH MS			-	-	-	-						
Naphthalene	mg/l	<0.0001	-	0.002	EU EQS Standards (2013) -	0	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Acenaphthylene	mg/l	<0.000005	-	-	-	0	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005
Acenaphthene	mg/l	<0.000005	-	-	-	0	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005
Fluorene	mg/l	<0.000005	-	-	-	0	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005
Phenanthrene	mg/l	<0.000005	-	-	-	0	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005
Anthracene	mg/l	<0.000005	-	0.0001	EU EQS Standards (2013) -	0	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005
Fluoranthene	mg/l	<0.000005	-	0.0000063	EU EQS Standards (2013) -	1	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005
Pyrene	mg/l	<0.000005	-	-	-	0	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005
Benzo(a)anthracene	mg/l	<0.000005	-	-	-	0	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005
Chrysene	mg/l	<0.000005	-	-	-	0	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005
Benzo(bk)fluoranthene	mg/l	<0.000008	-	0.00003	UK EQS (WFD 2015)	0	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008
Benzo(a)pyrene	mg/l	<0.000005	-	0.00017	EU EQS Standards (2013) -	0	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005
Indeno(123cd)pyrene	mg/l	<0.000005	-	0.000002	UK EQS (WFD 2015)	0	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005
Dibenzo(ah)anthracene	mg/l	<0.000005	-	-	-	0	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005
Benzo(ghi)perylene	mg/l	<0.000005	-	0.000002	UK EQS (WFD 2015)	0	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005
PAH 16 Total	mg/l	<0.000173	-	-	-	0	<0.000173	<0.000173	<0.000173	<0.000173	<0.000173	<0.000173	<0.000173
Benzo(b)fluoranthene	mg/l	<0.000008	-	0.00003	UK EQS (WFD 2015)	0	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008
Benzo(k)fluoranthene	mg/l	<0.000008	-	0.00003	UK EQS (WFD 2015)	0	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008
Methyl Tertiary Butyl Ether	mg/l	<0.0001	-	-	-	0	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Benzene	mg/l	<0.0005	0.001	0.01	UK EQS (WFD 2015)	0	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Toluene	mg/l	<0.005	0.004	0.074	UK EQS (WFD 2015)	0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Ethylbenzene	mg/l	<0.001	-	0.02	Proposed EQS	0	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Total Xylenes	mg/l	<0.003	0.003	0.03	UK EQS (WFD 2015)	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
TPH CWG						-							
Aliphatics						-							
Aliphatics >C5-C6	mg/l	<0.01	-	0.01	Typical LoD	0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Aliphatics >C6-C8	mg/l	<0.01	-	0.01	Typical LoD	2	<0.01	<0.01	<0.01	0.04	<0.01	<0.01	<0.01
Aliphatics >C8-C10	mg/l	<0.01	-	0.01	Typical LoD	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Aliphatics >C10-C12	mg/l	<0.005	-	0.01	Typical LoD	0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Aliphatics >C12-C16	mg/l	<0.01	-	0.01	Typical LoD	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Aliphatics >C16-C21	mg/l	<0.01	-	0.01	Typical LoD	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Aliphatics >C21-C35	mg/l	<0.01	-	0.01	Typical LoD	0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Total aliphatics C5-35	mg/l	<0.01	-	0.01	Typical LoD	2	<0.01	<0.01	<0.01	0.04	<0.01	<0.01	<0.01
Aromatics			-	0.01	Typical LoD	-							
Aromatics >EC5-EC7	mg/l	<0.01	-	0.01	Typical LoD	0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Aromatics >EC7-EC8	mg/l	<0.01	-	0.01	Typical LoD	0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Aromatics >EC8-EC10	mg/l	<0.01	-	0.01	Typical LoD	0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Aromatics >EC10-EC12	mg/l	<0.005	-	0.01	Typical LoD	0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Aromatics >EC12-EC16	mg/l	<0.01	-	0.01	Typical LoD	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Aromatics >EC16-EC21	mg/l	<0.01	-	0.01	Typical LoD	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Aromatics >EC21-EC35	mg/l	<0.01	-	0.01	Typical LoD	0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Total aromatics C5-35	mg/l	<0.01	-	0.01	Typical LoD	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Total aliphatics and aromatics(C5-35)	mg/l	<0.01	-	0.01	Typical LoD	2	<0.01	<0.01	<0.01	0.04	<0.01	<0.01	<0.01

Compiled Water Quality Data

Exceeds WQS
Exceeds LOD
BOLD Exceeds MRV

Client Name	2 Sisters Food Group
Site Name	Llangefni
Job Number	406.064893.00001
Date	28/09/2023
Media	Groundwater
WQS Type	Freshwater EQS

Sample ID	SW-N	SW-M	SW-S
Depth			
Sample Type	Surface Water	Surface Water	Surface Water
Sampled Date	20/09/23	20/09/23	20/09/23
Sample Received Date	23/09/23	23/09/23	23/09/23
EMT Sample No	121-128	129-136	137-144
Batch Number	1	1	1
0			

Test	Units (converted to mg/l)	LOD (mg/l)	Haz MRV	Selected WQS Value (mg/l)	WQS Type	Count Exceeding WQS			
PAH MS			-	-	-	-			
Naphthalene	mg/l	<0.0001	-	0.002	EU EQS Standards (2013) -	0	<0.0001	<0.0001	<0.0001
Acenaphthylene	mg/l	<0.000005	-	-	-	0	<0.000005	<0.000005	<0.000005
Acenaphthene	mg/l	<0.000005	-	-	-	0	<0.000005	<0.000005	<0.000005
Fluorene	mg/l	<0.000005	-	-	-	0	<0.000005	<0.000005	<0.000005
Phenanthrene	mg/l	<0.000005	-	-	-	0	<0.000005	<0.000005	<0.000005
Anthracene	mg/l	<0.000005	-	0.0001	EU EQS Standards (2013) -	0	<0.000005	<0.000005	<0.000005
Fluoranthene	mg/l	<0.000005	-	0.0000063	EU EQS Standards (2013) -	1	<0.000005	<0.000005	<0.000005
Pyrene	mg/l	<0.000005	-	-	-	0	<0.000005	<0.000005	<0.000005
Benzo(a)anthracene	mg/l	<0.000005	-	-	-	0	<0.000005	<0.000005	<0.000005
Chrysene	mg/l	<0.000005	-	-	-	0	<0.000005	<0.000005	<0.000005
Benzo(bk)fluoranthene	mg/l	<0.000008	-	0.00003	UK EQS (WFD 2015)	0	<0.000008	<0.000008	<0.000008
Benzo(a)pyrene	mg/l	<0.000005	-	0.00017	EU EQS Standards (2013) -	0	<0.000005	<0.000005	<0.000005
Indeno(123cd)pyrene	mg/l	<0.000005	-	0.000002	UK EQS (WFD 2015)	0	<0.000005	<0.000005	<0.000005
Dibenzo(ah)anthracene	mg/l	<0.000005	-	-	-	0	<0.000005	<0.000005	<0.000005
Benzo(ghi)perylene	mg/l	<0.000005	-	0.000002	UK EQS (WFD 2015)	0	<0.000005	<0.000005	<0.000005
PAH 16 Total	mg/l	<0.000173	-	-	-	0	<0.000173	<0.000173	<0.000173
Benzo(b)fluoranthene	mg/l	<0.000008	-	0.00003	UK EQS (WFD 2015)	0	<0.000008	<0.000008	<0.000008
Benzo(k)fluoranthene	mg/l	<0.000008	-	0.00003	UK EQS (WFD 2015)	0	<0.000008	<0.000008	<0.000008
Methyl Tertiary Butyl Ether	mg/l	<0.0001	-	-	-	0	<0.0001	<0.0001	<0.0001
Benzene	mg/l	<0.0005	0.001	0.01	UK EQS (WFD 2015)	0	<0.0005	<0.0005	<0.0005
Toluene	mg/l	<0.005	0.004	0.074	UK EQS (WFD 2015)	0	<0.005	<0.005	<0.005
Ethylbenzene	mg/l	<0.001	-	0.02	Proposed EQS	0	<0.001	<0.001	<0.001
Total Xylenes	mg/l	<0.003	0.003	0.03	UK EQS (WFD 2015)	0	<0.003	<0.003	<0.003
TPH CWG						-			
Aliphatics						-			
Aliphatics >C5-C6	mg/l	<0.01	-	0.01	Typical LoD	0	<0.01	<0.01	<0.01
Aliphatics >C6-C8	mg/l	<0.01	-	0.01	Typical LoD	2	<0.01	<0.01	<0.01
Aliphatics >C8-C10	mg/l	<0.01	-	0.01	Typical LoD	1	<0.01	<0.01	<0.01
Aliphatics >C10-C12	mg/l	<0.005	-	0.01	Typical LoD	0	<0.005	<0.005	<0.005
Aliphatics >C12-C16	mg/l	<0.01	-	0.01	Typical LoD	1	<0.01	<0.01	<0.01
Aliphatics >C16-C21	mg/l	<0.01	-	0.01	Typical LoD	1	<0.01	<0.01	<0.01
Aliphatics >C21-C35	mg/l	<0.01	-	0.01	Typical LoD	0	<0.01	<0.01	<0.01
Total aliphatics C5-35	mg/l	<0.01	-	0.01	Typical LoD	2	<0.01	<0.01	<0.01
Aromatics			-	0.01	Typical LoD	-			
Aromatics >EC5-EC7	mg/l	<0.01	-	0.01	Typical LoD	0	<0.01	<0.01	<0.01
Aromatics >EC7-EC8	mg/l	<0.01	-	0.01	Typical LoD	0	<0.01	<0.01	<0.01
Aromatics >EC8-EC10	mg/l	<0.01	-	0.01	Typical LoD	0	<0.01	<0.01	<0.01
Aromatics >EC10-EC12	mg/l	<0.005	-	0.01	Typical LoD	0	<0.005	<0.005	<0.005
Aromatics >EC12-EC16	mg/l	<0.01	-	0.01	Typical LoD	1	<0.01	<0.01	<0.01
Aromatics >EC16-EC21	mg/l	<0.01	-	0.01	Typical LoD	1	<0.01	<0.01	<0.01
Aromatics >EC21-EC35	mg/l	<0.01	-	0.01	Typical LoD	0	<0.01	<0.01	<0.01
Total aromatics C5-35	mg/l	<0.01	-	0.01	Typical LoD	1	<0.01	<0.01	<0.01
Total aliphatics and aromatics(C5-35)	mg/l	<0.01	-	0.01	Typical LoD	2	<0.01	<0.01	<0.01

Compiled Water Quality Data

Exceeds WQS
Exceeds LOD
Exceeds MRV

BOLD

Client Name	2 Sisters Food Group
Site Name	Llangefni
Job Number	406.064893.00001
Date	28/09/2023
Media	Groundwater
WQS Type	Freshwater EQS

Sample ID	BH1	BH2	BH3	BH4	BH5	BH6	BH7	BH8
Depth	0.471	0.493	1.052	1.403	1.168	1.01	0.665	0.592
Sample Type	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water
Sampled Date	19/09/23	19/09/23	20/09/23	20/09/23	20/09/23	19/09/23	19/09/23	19/09/23
Sample Received Date	23/09/23	23/09/23	23/09/23	23/09/23	23/09/23	23/09/23	23/09/23	23/09/23
EMT Sample No	17-24	33-40	113-120	105-112	97-104	57-64	49-56	41-48
Batch Number	1	1	1	1	1	1	1	1
0								

Test	Units (converted to mg/l)	LOD (mg/l)	Haz MRV	Selected WQS Value (mg/l)	WQS Type	Count Exceeding WQS							
VOC MS			-	-	-	-							
Dichlorodifluoromethane	mg/l	<0.002	-	-	-	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Methyl Tertiary Butyl Ether	mg/l	<0.0001	-	-	-	0	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Chloromethane	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Vinyl Chloride	mg/l	<0.0001	-	-	-	0	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Bromomethane	mg/l	<0.001	-	-	-	0	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chloroethane	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Trichlorofluoromethane	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
1,1-Dichloroethene	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Dichloromethane	mg/l	<0.003	-	0.02	UK EQS (WFD 2015)	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Trans-1-2-Dichloroethene	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
1,1-Dichloroethane	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Cis-1-2-Dichloroethene	mg/l	<0.003	-	-	WHO (2004)	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
2,2-Dichloropropane	mg/l	<0.001	-	-	-	0	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromochloromethane	mg/l	<0.002	-	-	-	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Chloroform	mg/l	<0.002	0.0001	0.0025	UK EQS (WFD 2015)	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1,1,1-Trichloroethane	mg/l	<0.002	0.0001	0.1	UK EQS (WFD 2015)	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1,1-Dichloropropene	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Carbon Tetrachloride	mg/l	<0.002	0.0001	0.012	UK EQS (WFD 2015)	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1,2-Dichloroethane	mg/l	<0.002	0.001	0.01	UK EQS (WFD 2015)	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Benzene	mg/l	<0.0005	0.001	0.01	UK EQS (WFD 2015)	0	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Trichloroethene	mg/l	<0.003	-	0.01	UK EQS (WFD 2015)	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
1,2-Dichloropropane	mg/l	<0.002	-	-	-	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Dibromomethane	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Bromodichloromethane	mg/l	<0.002	-	-	-	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cis-1-3-Dichloropropene	mg/l	<0.002	-	-	-	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Toluene	mg/l	<0.005	0.004	0.074	UK EQS (WFD 2015)	0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Trans-1-3-Dichloropropene	mg/l	<0.002	-	-	-	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1,1,2-Trichloroethane	mg/l	<0.002	0.00001	0.4	UK EQS (WFD 2015)	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Tetrachloroethene	mg/l	<0.003	0.0001	0.01	UK EQS (WFD 2015)	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
1,3-Dichloropropane	mg/l	<0.002	-	-	-	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Dibromochloromethane	mg/l	<0.002	-	-	-	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1,2-Dibromoethane	mg/l	<0.002	-	-	-	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Chlorobenzene	mg/l	<0.002	-	-	-	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1,1,1,2-Tetrachloroethane	mg/l	<0.002	-	-	-	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Ethylbenzene	mg/l	<0.001	-	0.02	Proposed EQS	0	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
m/p-Xylene	mg/l	<0.002	0.003	0.03	UK EQS (WFD 2015)	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
o-Xylene	mg/l	<0.001	0.003	0.03	UK EQS (WFD 2015)	0	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Styrene	mg/l	<0.002	-	0.05	Proposed EQS	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Bromoform	mg/l	<0.002	-	-	-	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Isopropylbenzene	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
1,1,2,2-Tetrachloroethane	mg/l	<0.004	-	-	-	0	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Bromobenzene	mg/l	<0.002	-	-	-	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1,2,3-Trichloropropane	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Propylbenzene	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
2-Chlorotoluene	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
1,3,5-Trimethylbenzene	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
4-Chlorotoluene	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Tert-Butylbenzene	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
1,2,4-Trimethylbenzene	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Sec-Butylbenzene	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
4-Isopropyltoluene	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
1,3-Dichlorobenzene	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
1,4-Dichlorobenzene	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
n-Butylbenzene	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
1,2-Dichlorobenzene	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
1,2-Dibromo-3-Chloropropane	mg/l	<0.002	-	-	-	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1,2,4-Trichlorobenzene	mg/l	<0.003	0.00001	-	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Hexachlorobutadiene	mg/l	<0.003	0.000005	0.0001	UK EQS (WFD 2015)	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Naphthalene	mg/l	<0.002	-	0.002	EU EQS Standards (2013) -	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1,2,3-Trichlorobenzene	mg/l	<0.003	0.00001	-	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003

Compiled Water Quality Data

Exceeds WQS
Exceeds LOD
Exceeds MRV

BOLD

Client Name	2 Sisters Food Group
Site Name	Llangefni
Job Number	406.064893.00001
Date	28/09/2023
Media	Groundwater
WQS Type	Freshwater EQS

Sample ID	BH9	BH10	BH11	BH12	BH13	BH14	BH15
Depth	0.3	0.348	0.527	1.193	1.15	1.483	1.505
Sample Type	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water
Sampled Date	19/09/23	19/09/23	19/09/23	20/09/23	20/09/23	20/09/23	20/09/23
Sample Received Date	23/09/23	23/09/23	23/09/23	23/09/23	23/09/23	23/09/23	23/09/23
EMT Sample No	25-32	9-16	1-8	65-72	73-80	81-88	89-96
Batch Number	1	1	1	1	1	1	1
0							

Test	**Units (converted to mg/l)**	**LOD (mg/l)**	**Haz MRV**	**Selected WQS Value (mg/l)**	**WQS Type**	**Count Exceeding WQS**						
VOC MS			-	-	-	-						
Dichlorodifluoromethane	mg/l	<0.002	-	-	-	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Methyl Tertiary Butyl Ether	mg/l	<0.0001	-	-	-	0	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Chloromethane	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Vinyl Chloride	mg/l	<0.0001	-	-	-	0	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Bromomethane	mg/l	<0.001	-	-	-	0	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chloroethane	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Trichlorofluoromethane	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003	0.036	0.097	<0.003	<0.003
1,1-Dichloroethene	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003	0.007	<0.003	<0.003	<0.003
Dichloromethane	mg/l	<0.003	-	0.02	UK EQS (WFD 2015)	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Trans-1-2-Dichloroethene	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
1,1-Dichloroethane	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003	0.066	0.005	<0.003	<0.003
Cis-1-2-Dichloroethene	mg/l	<0.003	-	-	WHO (2004)	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
2,2-Dichloropropane	mg/l	<0.001	-	-	-	0	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromochloromethane	mg/l	<0.002	-	-	-	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Chloroform	mg/l	<0.002	0.0001	0.0025	UK EQS (WFD 2015)	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1,1,1-Trichloroethane	mg/l	<0.002	0.0001	0.1	UK EQS (WFD 2015)	0	<0.002	<0.002	<0.002	**0.073**	**0.012**	<0.002	<0.002
1,1-Dichloropropene	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Carbon Tetrachloride	mg/l	<0.002	0.0001	0.012	UK EQS (WFD 2015)	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1,2-Dichloroethane	mg/l	<0.002	0.001	0.01	UK EQS (WFD 2015)	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Benzene	mg/l	<0.0005	0.001	0.01	UK EQS (WFD 2015)	0	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Trichloroethene	mg/l	<0.003	-	0.01	UK EQS (WFD 2015)	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
1,2-Dichloropropane	mg/l	<0.002	-	-	-	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Dibromomethane	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Bromodichloromethane	mg/l	<0.002	-	-	-	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cis-1-3-Dichloropropene	mg/l	<0.002	-	-	-	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Toluene	mg/l	<0.005	0.004	0.074	UK EQS (WFD 2015)	0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Trans-1-3-Dichloropropene	mg/l	<0.002	-	-	-	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1,1,2-Trichloroethane	mg/l	<0.002	0.00001	0.4	UK EQS (WFD 2015)	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Tetrachloroethene	mg/l	<0.003	0.0001	0.01	UK EQS (WFD 2015)	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
1,3-Dichloropropane	mg/l	<0.002	-	-	-	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Dibromochloromethane	mg/l	<0.002	-	-	-	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1,2-Dibromoethane	mg/l	<0.002	-	-	-	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Chlorobenzene	mg/l	<0.002	-	-	-	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1,1,1,2-Tetrachloroethane	mg/l	<0.002	-	-	-	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Ethylbenzene	mg/l	<0.001	-	0.02	Proposed EQS	0	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
m/p-Xylene	mg/l	<0.002	0.003	0.03	UK EQS (WFD 2015)	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
o-Xylene	mg/l	<0.001	0.003	0.03	UK EQS (WFD 2015)	0	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Styrene	mg/l	<0.002	-	0.05	Proposed EQS	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Bromoform	mg/l	<0.002	-	-	-	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Isopropylbenzene	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
1,1,2,2-Tetrachloroethane	mg/l	<0.004	-	-	-	0	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Bromobenzene	mg/l	<0.002	-	-	-	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1,2,3-Trichloropropane	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Propylbenzene	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
2-Chlorotoluene	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
1,3,5-Trimethylbenzene	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
4-Chlorotoluene	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Tert-Butylbenzene	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
1,2,4-Trimethylbenzene	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Sec-Butylbenzene	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
4-Isopropyltoluene	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
1,3-Dichlorobenzene	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
1,4-Dichlorobenzene	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
n-Butylbenzene	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
1,2-Dichlorobenzene	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
1,2-Dibromo-3-Chloropropane	mg/l	<0.002	-	-	-	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1,2,4-Trichlorobenzene	mg/l	<0.003	0.00001	-	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Hexachlorobutadiene	mg/l	<0.003	0.000005	0.0001	UK EQS (WFD 2015)	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Naphthalene	mg/l	<0.002	-	0.002	EU EQS Standards (2013) -	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1,2,3-Trichlorobenzene	mg/l	<0.003	0.00001	-	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003

Compiled Water Quality Data

Exceeds WQS
Exceeds LOD
Exceeds MRV

BOLD

Client Name	2 Sisters Food Group
Site Name	Llangefni
Job Number	406.064893.00001
Date	28/09/2023
Media	Groundwater
WQS Type	Freshwater EQS

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Sample ID	SW-N	SW-M	SW-S
Depth			
Sample Type	Surface Water	Surface Water	Surface Water
Sampled Date	20/09/23	20/09/23	20/09/23
Sample Received Date	23/09/23	23/09/23	23/09/23
EMT Sample No	121-128	129-136	137-144
Batch Number	1	1	1
0			

Test	Units (converted to mg/l)	LOD (mg/l)	Haz MRV	Selected WQS Value (mg/l)	WQS Type	Count Exceeding WQS			
VOC MS			-	-	-	-			
Dichlorodifluoromethane	mg/l	<0.002	-	-	-	0	<0.002	<0.002	<0.002
Methyl Tertiary Butyl Ether	mg/l	<0.0001	-	-	-	0	<0.0001	<0.0001	<0.0001
Chloromethane	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003
Vinyl Chloride	mg/l	<0.0001	-	-	-	0	<0.0001	<0.0001	<0.0001
Bromomethane	mg/l	<0.001	-	-	-	0	<0.001	<0.001	<0.001
Chloroethane	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003
Trichlorofluoromethane	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003
1,1-Dichloroethene	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003
Dichloromethane	mg/l	<0.003	-	0.02	UK EQS (WFD 2015)	0	<0.003	<0.003	<0.003
Trans-1-2-Dichloroethene	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003
1,1-Dichloroethane	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003
Cis-1-2-Dichloroethene	mg/l	<0.003	-	-	WHO (2004)	0	<0.003	<0.003	<0.003
2,2-Dichloropropane	mg/l	<0.001	-	-	-	0	<0.001	<0.001	<0.001
Bromochloromethane	mg/l	<0.002	-	-	-	0	<0.002	<0.002	<0.002
Chloroform	mg/l	<0.002	0.0001	0.0025	UK EQS (WFD 2015)	0	<0.002	<0.002	<0.002
1,1,1-Trichloroethane	mg/l	<0.002	0.0001	0.1	UK EQS (WFD 2015)	0	<0.002	<0.002	<0.002
1,1-Dichloropropene	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003
Carbon Tetrachloride	mg/l	<0.002	0.0001	0.012	UK EQS (WFD 2015)	0	<0.002	<0.002	<0.002
1,2-Dichloroethane	mg/l	<0.002	0.001	0.01	UK EQS (WFD 2015)	0	<0.002	<0.002	<0.002
Benzene	mg/l	<0.0005	0.001	0.01	UK EQS (WFD 2015)	0	<0.0005	<0.0005	<0.0005
Trichloroethene	mg/l	<0.003	-	0.01	UK EQS (WFD 2015)	0	<0.003	<0.003	<0.003
1,2-Dichloropropane	mg/l	<0.002	-	-	-	0	<0.002	<0.002	<0.002
Dibromomethane	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003
Bromodichloromethane	mg/l	<0.002	-	-	-	0	<0.002	<0.002	<0.002
Cis-1-3-Dichloropropene	mg/l	<0.002	-	-	-	0	<0.002	<0.002	<0.002
Toluene	mg/l	<0.005	0.004	0.074	UK EQS (WFD 2015)	0	<0.005	<0.005	<0.005
Trans-1-3-Dichloropropene	mg/l	<0.002	-	-	-	0	<0.002	<0.002	<0.002
1,1,2-Trichloroethane	mg/l	<0.002	0.00001	0.4	UK EQS (WFD 2015)	0	<0.002	<0.002	<0.002
Tetrachloroethene	mg/l	<0.003	0.0001	0.01	UK EQS (WFD 2015)	0	<0.003	<0.003	<0.003
1,3-Dichloropropane	mg/l	<0.002	-	-	-	0	<0.002	<0.002	<0.002
Dibromochloromethane	mg/l	<0.002	-	-	-	0	<0.002	<0.002	<0.002
1,2-Dibromoethane	mg/l	<0.002	-	-	-	0	<0.002	<0.002	<0.002
Chlorobenzene	mg/l	<0.002	-	-	-	0	<0.002	<0.002	<0.002
1,1,1,2-Tetrachloroethane	mg/l	<0.002	-	-	-	0	<0.002	<0.002	<0.002
Ethylbenzene	mg/l	<0.001	-	0.02	Proposed EQS	0	<0.001	<0.001	<0.001
m/p-Xylene	mg/l	<0.002	0.003	0.03	UK EQS (WFD 2015)	0	<0.002	<0.002	<0.002
o-Xylene	mg/l	<0.001	0.003	0.03	UK EQS (WFD 2015)	0	<0.001	<0.001	<0.001
Styrene	mg/l	<0.002	-	0.05	Proposed EQS	0	<0.002	<0.002	<0.002
Bromoform	mg/l	<0.002	-	-	-	0	<0.002	<0.002	<0.002
Isopropylbenzene	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003
1,1,2,2-Tetrachloroethane	mg/l	<0.004	-	-	-	0	<0.004	<0.004	<0.004
Bromobenzene	mg/l	<0.002	-	-	-	0	<0.002	<0.002	<0.002
1,2,3-Trichloropropane	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003
Propylbenzene	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003
2-Chlorotoluene	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003
1,3,5-Trimethylbenzene	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003
4-Chlorotoluene	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003
Tert-Butylbenzene	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003
1,2,4-Trimethylbenzene	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003
Sec-Butylbenzene	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003
4-Isopropyltoluene	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003
1,3-Dichlorobenzene	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003
1,4-Dichlorobenzene	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003
n-Butylbenzene	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003
1,2-Dichlorobenzene	mg/l	<0.003	-	-	-	0	<0.003	<0.003	<0.003
1,2-Dibromo-3-Chloropropane	mg/l	<0.002	-	-	-	0	<0.002	<0.002	<0.002
1,2,4-Trichlorobenzene	mg/l	<0.003	0.00001	-	-	0	<0.003	<0.003	<0.003
Hexachlorobutadiene	mg/l	<0.003	0.000005	0.0001	UK EQS (WFD 2015)	0	<0.003	<0.003	<0.003
Naphthalene	mg/l	<0.002	-	0.002	EU EQS Standards (2013) -	0	<0.002	<0.002	<0.002
1,2,3-Trichlorobenzene	mg/l	<0.003	0.00001	-	-	0	<0.003	<0.003	<0.003

Exceeds GAC
Exceeds LOD

Client Name	2 Sisters Food Group
Site Name	Llangefni
Job Number	406.064893.00001
Date	06/10/2023
Description of Data Assessment / Zoning	Environmental Risk Assessment
Selected Screening Value and Land Use	Commercial

Sample ID	BH11	BH10	BH1	BH9	BH2	BH8	BH7
Depth	0.527	0.348	0.471	0.3	0.493	0.592	0.665
Sample Type	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water
Sampled Date	23/09/19	23/09/19	23/09/19	23/09/19	23/09/19	23/09/19	23/09/19
Sample Received Date	23/09/23	23/09/23	23/09/23	23/09/23	23/09/23	23/09/23	23/09/23
EMT Sample No	1-8	9-16	17-24	25-32	33-40	41-48	49-56
Batch Number	1	1	1	1	1	1	1
0				-	-	-	-

Test	**Units**	**LOD**	**Selected GAC**	**No. Above GAC**						
			-	0	-	-	-	-	-	-	-
PAH MS			-	0	-	-	-	-	-	-	-
Naphthalene	mg/l	<0.0001	23	0	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Acenaphthylene	mg/l	<0.000005	20000	0	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005
Acenaphthene	mg/l	<0.000005	15000	0	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	0.000008	<0.000005
Fluorene	mg/l	<0.000005	18000	0	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005
Phenanthrene	mg/l	<0.000005	-	0	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	0.000005	<0.000005
Anthracene	mg/l	<0.000005	-	0	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005
Fluoranthene	mg/l	<0.000005	-	0	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	0.000015	<0.000005
Pyrene	mg/l	<0.000005	-	0	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	0.000021	<0.000005
Benzo(a)anthracene	mg/l	<0.000005	-	0	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005
Chrysene	mg/l	<0.000005	-	0	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005
Benzo(bk)fluoranthene	mg/l	<0.000008	-	0	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008
Benzo(a)pyrene	mg/l	<0.000005	-	0	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005
Indeno(123cd)pyrene	mg/l	<0.000005	-	0	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005
Dibenzo(ah)anthracene	mg/l	<0.000005	-	0	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005
Benzo(ghi)perylene	mg/l	<0.000005	-	0	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005
PAH 16 Total	mg/l	<0.000173	-	0	<0.000173	<0.000173	<0.000173	<0.000173	<0.000173	<0.000173	<0.000173
Benzo(b)fluoranthene	mg/l	<0.000008	-	0	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008
Benzo(k)fluoranthene	mg/l	<0.000008	-	0	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008
			-	0	-	-	-	-	-	-	-
VOC MS			-	0	-	-	-	-	-	-	-
Dichlorodifluoromethane	mg/l	<0.002	-	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Methyl Tertiary Butyl Ether	mg/l	<0.0001	78000	0	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Chloromethane	mg/l	<0.003	1.4	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Vinyl Chloride	mg/l	<0.0001	0.063	0	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Bromomethane	mg/l	<0.001	-	0	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chloroethane	mg/l	<0.003	1000	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Trichlorofluoromethane	mg/l	<0.003	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
1,1-Dichloroethene	mg/l	<0.003	16	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Dichloromethane	mg/l	<0.003	370	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Trans-1-2-Dichloroethene	mg/l	<0.003	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
1,1-Dichloroethane	mg/l	<0.003	2600	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
cis 1-2 dichloroethene	mg/l	<0.003	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
2,2-Dichloropropane	mg/l	<0.001	-	0	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromochloromethane	mg/l	<0.002	-	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Chloroform	mg/l	<0.002	-	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1,1,1-Trichloroethane	mg/l	<0.002	290	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1,1-Dichloropropene	mg/l	<0.003	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Carbon Tetrachloride	mg/l	<0.002	-	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1,2-Dichloroethane	mg/l	<0.002	-	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Benzene	mg/l	<0.0005	20	0	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Trichloroethene	mg/l	<0.003	0.53	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
1,2-Dichloropropane	mg/l	<0.002	-	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Dibromomethane	mg/l	<0.003	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Bromodichloromethane	mg/l	<0.002	1.6	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cis-1-3-Dichloropropene	mg/l	<0.002	-	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Toluene	mg/l	<0.005	21000	0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Trans-1-3-Dichloropropene	mg/l	<0.002	-	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1,1,2-Trichloroethane	mg/l	<0.002	-	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Tetrachloroethene	mg/l	<0.003	4.6	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
1,3-Dichloropropane	mg/l	<0.002	-	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Dibromochloromethane	mg/l	<0.002	-	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1,2-Dibromoethane	mg/l	<0.002	-	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002

Exceeds GAC
Exceeds LOD

Client Name	2 Sisters Food Group
Site Name	Llangefni
Job Number	406.064893.00001
Date	06/10/2023
Description of Data Assessment / Zoning	Environmental Risk Assessment
Selected Screening Value and Land Use	Commercial

Sample ID	BH6	BH12	BH13	BH14	BH15	BH5	BH4	BH3
Depth	1.01	1.193	1.15	1.483	1.505	1.168	1.403	1.052
Sample Type	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water
Sampled Date	23/09/19	23/09/20	23/09/20	45189	45189	45189	45189	45189
Sample Received Date	23/09/23	23/09/23	23/09/23	23/09/2023	23/09/2023	23/09/2023	23/09/2023	23/09/2023
EMT Sample No	57-64	65-72	73-80	81-88	89-96	97-104	105-112	113-120
Batch Number	1	1	1	1	1	1	1	1
0	-	-	-	-	-	-	-	-

Test	**Units**	**LOD**	**Selected GAC**	**No. Above GAC**							
			-	0	-	-	-	-	-	-	-	-
PAH MS			-	0	-	-	-	-	-	-	-	-
Naphthalene	mg/l	<0.0001	23	0	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Acenaphthylene	mg/l	<0.000005	20000	0	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005
Acenaphthene	mg/l	<0.000005	15000	0	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	0.000014	<0.000005	<0.000005
Fluorene	mg/l	<0.000005	18000	0	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	0.000005	<0.000005	<0.000005
Phenanthrene	mg/l	<0.000005	-	0	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005
Anthracene	mg/l	<0.000005	-	0	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005
Fluoranthene	mg/l	<0.000005	-	0	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005
Pyrene	mg/l	<0.000005	-	0	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	0.000047
Benzo(a)anthracene	mg/l	<0.000005	-	0	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005
Chrysene	mg/l	<0.000005	-	0	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005
Benzo(bk)fluoranthene	mg/l	<0.000008	-	0	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008
Benzo(a)pyrene	mg/l	<0.000005	-	0	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005
Indeno(123cd)pyrene	mg/l	<0.000005	-	0	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005
Dibenzo(ah)anthracene	mg/l	<0.000005	-	0	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005
Benzo(ghi)perylene	mg/l	<0.000005	-	0	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005
PAH 16 Total	mg/l	<0.000173	-	0	<0.000173	<0.000173	<0.000173	<0.000173	<0.000173	<0.000173	<0.000173	<0.000173
Benzo(b)fluoranthene	mg/l	<0.000008	-	0	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008
Benzo(k)fluoranthene	mg/l	<0.000008	-	0	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008
			-	0	-	-	-	-	-	-	-	-
VOC MS			-	0	-	-	-	-	-	-	-	-
Dichlorodifluoromethane	mg/l	<0.002	-	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Methyl Tertiary Butyl Ether	mg/l	<0.0001	78000	0	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Chloromethane	mg/l	<0.003	1.4	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Vinyl Chloride	mg/l	<0.0001	0.063	0	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Bromomethane	mg/l	<0.001	-	0	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chloroethane	mg/l	<0.003	1000	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Trichlorofluoromethane	mg/l	<0.003	-	0	<0.003	0.036	0.097	<0.003	<0.003	<0.003	<0.003	<0.003
1,1-Dichloroethene	mg/l	<0.003	16	0	<0.003	0.007	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Dichloromethane	mg/l	<0.003	370	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Trans-1-2-Dichloroethene	mg/l	<0.003	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
1,1-Dichloroethane	mg/l	<0.003	2600	0	<0.003	0.066	0.005	<0.003	<0.003	<0.003	<0.003	<0.003
cis 1-2 dichloroethene	mg/l	<0.003	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
2,2-Dichloropropane	mg/l	<0.001	-	0	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromochloromethane	mg/l	<0.002	-	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Chloroform	mg/l	<0.002	-	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1,1,1-Trichloroethane	mg/l	<0.002	290	0	<0.002	0.073	0.012	<0.002	<0.002	<0.002	<0.002	<0.002
1,1-Dichloropropene	mg/l	<0.003	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Carbon Tetrachloride	mg/l	<0.002	-	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1,2-Dichloroethane	mg/l	<0.002	-	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Benzene	mg/l	<0.0005	20	0	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Trichloroethene	mg/l	<0.003	0.53	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
1,2-Dichloropropane	mg/l	<0.002	-	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Dibromomethane	mg/l	<0.003	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Bromodichloromethane	mg/l	<0.002	1.6	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cis-1-3-Dichloropropene	mg/l	<0.002	-	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Toluene	mg/l	<0.005	21000	0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Trans-1-3-Dichloropropene	mg/l	<0.002	-	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1,1,2-Trichloroethane	mg/l	<0.002	-	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Tetrachloroethene	mg/l	<0.003	4.6	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
1,3-Dichloropropane	mg/l	<0.002	-	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Dibromochloromethane	mg/l	<0.002	-	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1,2-Dibromoethane	mg/l	<0.002	-	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002

Exceeds GAC
Exceeds LOD

Client Name	2 Sisters Food Group
Site Name	Llangefni
Job Number	406.064893.00001
Date	06/10/2023
Description of Data Assessment / Zoning	Environmental Risk Assessment
Selected Screening Value and Land Use	Commercial

Sample ID	SW-N	SW-M	SW-S
Depth	-	-	-
Sample Type	Surface Water	Surface Water	Surface Water
Sampled Date	45189	45189	45189
Sample Received Date	23/09/2023	23/09/2023	23/09/2023
EMT Sample No	121-128	129-136	137-144
Batch Number	1	1	1
0	-	-	-

Test	**Units**	**LOD**	**Selected GAC**	**No. Above GAC**			
			-	0	-	-	-
PAH MS			-	0	-	-	-
Naphthalene	mg/l	<0.0001	23	0	<0.0001	<0.0001	<0.0001
Acenaphthylene	mg/l	<0.000005	20000	0	<0.000005	<0.000005	<0.000005
Acenaphthene	mg/l	<0.000005	15000	0	<0.000005	<0.000005	<0.000005
Fluorene	mg/l	<0.000005	18000	0	<0.000005	<0.000005	<0.000005
Phenanthrene	mg/l	<0.000005	-	0	<0.000005	<0.000005	<0.000005
Anthracene	mg/l	<0.000005	-	0	<0.000005	<0.000005	<0.000005
Fluoranthene	mg/l	<0.000005	-	0	<0.000005	<0.000005	<0.000005
Pyrene	mg/l	<0.000005	-	0	<0.000005	<0.000005	<0.000005
Benzo(a)anthracene	mg/l	<0.000005	-	0	<0.000005	<0.000005	<0.000005
Chrysene	mg/l	<0.000005	-	0	<0.000005	<0.000005	<0.000005
Benzo(bk)fluoranthene	mg/l	<0.000008	-	0	<0.000008	<0.000008	<0.000008
Benzo(a)pyrene	mg/l	<0.000005	-	0	<0.000005	<0.000005	<0.000005
Indeno(123cd)pyrene	mg/l	<0.000005	-	0	<0.000005	<0.000005	<0.000005
Dibenzo(ah)anthracene	mg/l	<0.000005	-	0	<0.000005	<0.000005	<0.000005
Benzo(ghi)perylene	mg/l	<0.000005	-	0	<0.000005	<0.000005	<0.000005
PAH 16 Total	mg/l	<0.000173	-	0	<0.000173	<0.000173	<0.000173
Benzo(b)fluoranthene	mg/l	<0.000008	-	0	<0.000008	<0.000008	<0.000008
Benzo(k)fluoranthene	mg/l	<0.000008	-	0	<0.000008	<0.000008	<0.000008
			-	0	-	-	-
VOC MS			-	0	-	-	-
Dichlorodifluoromethane	mg/l	<0.002	-	0	<0.002	<0.002	<0.002
Methyl Tertiary Butyl Ether	mg/l	<0.0001	78000	0	<0.0001	<0.0001	<0.0001
Chloromethane	mg/l	<0.003	1.4	0	<0.003	<0.003	<0.003
Vinyl Chloride	mg/l	<0.0001	0.063	0	<0.0001	<0.0001	<0.0001
Bromomethane	mg/l	<0.001	-	0	<0.001	<0.001	<0.001
Chloroethane	mg/l	<0.003	1000	0	<0.003	<0.003	<0.003
Trichlorofluoromethane	mg/l	<0.003	-	0	<0.003	<0.003	<0.003
1,1-Dichloroethene	mg/l	<0.003	16	0	<0.003	<0.003	<0.003
Dichloromethane	mg/l	<0.003	370	0	<0.003	<0.003	<0.003
Trans-1-2-Dichloroethene	mg/l	<0.003	-	0	<0.003	<0.003	<0.003
1,1-Dichloroethane	mg/l	<0.003	2600	0	<0.003	<0.003	<0.003
cis 1-2 dichloroethene	mg/l	<0.003	-	0	<0.003	<0.003	<0.003
2,2-Dichloropropane	mg/l	<0.001	-	0	<0.001	<0.001	<0.001
Bromochloromethane	mg/l	<0.002	-	0	<0.002	<0.002	<0.002
Chloroform	mg/l	<0.002	-	0	<0.002	<0.002	<0.002
1,1,1-Trichloroethane	mg/l	<0.002	290	0	<0.002	<0.002	<0.002
1,1-Dichloropropene	mg/l	<0.003	-	0	<0.003	<0.003	<0.003
Carbon Tetrachloride	mg/l	<0.002	-	0	<0.002	<0.002	<0.002
1,2-Dichloroethane	mg/l	<0.002	-	0	<0.002	<0.002	<0.002
Benzene	mg/l	<0.0005	20	0	<0.0005	<0.0005	<0.0005
Trichloroethene	mg/l	<0.003	0.53	0	<0.003	<0.003	<0.003
1,2-Dichloropropane	mg/l	<0.002	-	0	<0.002	<0.002	<0.002
Dibromomethane	mg/l	<0.003	-	0	<0.003	<0.003	<0.003
Bromodichloromethane	mg/l	<0.002	1.6	0	<0.002	<0.002	<0.002
Cis-1-3-Dichloropropene	mg/l	<0.002	-	0	<0.002	<0.002	<0.002
Toluene	mg/l	<0.005	21000	0	<0.005	<0.005	<0.005
Trans-1-3-Dichloropropene	mg/l	<0.002	-	0	<0.002	<0.002	<0.002
1,1,2-Trichloroethane	mg/l	<0.002	-	0	<0.002	<0.002	<0.002
Tetrachloroethene	mg/l	<0.003	4.6	0	<0.003	<0.003	<0.003
1,3-Dichloropropane	mg/l	<0.002	-	0	<0.002	<0.002	<0.002
Dibromochloromethane	mg/l	<0.002	-	0	<0.002	<0.002	<0.002
1,2-Dibromoethane	mg/l	<0.002	-	0	<0.002	<0.002	<0.002

Exceeds GAC
Exceeds LOD

Client Name	2 Sisters Food Group
Site Name	Llangefni
Job Number	406.064893.00001
Date	06/10/2023
Description of Data Assessment / Zoning	Environmental Risk Assessment
Selected Screening Value and Land Use	Commercial

Sample ID					BH11	BH10	BH1	BH9	BH2	BH8	BH7
Depth					0.527	0.348	0.471	0.3	0.493	0.592	0.665
Sample Type					Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water
Sampled Date					23/09/19	23/09/19	23/09/19	23/09/19	23/09/19	23/09/19	23/09/19
Sample Received Date					23/09/23	23/09/23	23/09/23	23/09/23	23/09/23	23/09/23	23/09/23
EMT Sample No					1-8	9-16	17-24	25-32	33-40	41-48	49-56
Batch Number					1	1	1	1	1	1	1
0								-	-	-	-
Chlorobenzene	mg/l	<0.002	15	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1,1,1,2-Tetrachloroethane	mg/l	<0.002	22	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Ethylbenzene	mg/l	<0.001	960	0	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
m & p Xylene	mg/l	<0.002	-	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
o-Xylene	mg/l	<0.001	-	0	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Styrene	mg/l	<0.002	810	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Bromoform	mg/l	<0.002	-	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Isopropylbenzene	mg/l	<0.003	86	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
1,1,2,2-Tetrachloroethane	mg/l	<0.004	150	0	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Bromobenzene	mg/l	<0.002	20	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1,2,3-Trichloropropane	mg/l	<0.003	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Propylbenzene	mg/l	<0.003	240	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
2-Chlorotoluene	mg/l	<0.003	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
1,3,5-Trimethylbenzene	mg/l	<0.003	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
4-Chlorotoluene	mg/l	<0.003	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Tert-Butylbenzene	mg/l	<0.003	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
1,2,4-Trimethylbenzene	mg/l	<0.003	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Sec-Butylbenzene	mg/l	<0.003	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
4-Isopropyltoluene	mg/l	<0.003	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
1,3-Dichlorobenzene	mg/l	<0.003	2.8	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
1,4-Dichlorobenzene	mg/l	<0.003	460	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
n-Butylbenzene	mg/l	<0.003	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
1,2-Dichlorobenzene	mg/l	<0.003	220	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
1,2-Dibromo-3-Chloropropane	mg/l	<0.002	-	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1,2,4-Trichlorobenzene	mg/l	<0.003	7.2	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Hexachlorobutadiene	mg/l	<0.003	0.23	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Naphthalene	mg/l	<0.002	23	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1,2,3-Trichlorobenzene	mg/l	<0.003	3.1	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
			-	0	-	-	-	-	-	-	-
Methyl Tertiary Butyl Ether	mg/l	<0.0001	78000	0	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Benzene	mg/l	<0.0005	20	0	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Toluene	mg/l	<0.005	21000	0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Ethylbenzene	mg/l	<0.001	960	0	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
m & p Xylene	mg/l	<0.002	-	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
o-Xylene	mg/l	<0.001	-	0	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Total Xylenes	mg/l	<0.003	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
			-	0	-	-	-	-	-	-	-
TPH CWG			-	0	-	-	-	-	-	-	-
Aliphatics			-	0	-	-	-	-	-	-	-
aliphatics >C5-C6	mg/l	<0.01	190	0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
aliphatics >C6-C8	mg/l	<0.01	150	0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
aliphatics >C8-C10	mg/l	<0.01	5.7	0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
aliphatics >C10-C12	mg/l	<0.005	3.6	0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
aliphatics >C12-C16	mg/l	<0.01	-	0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
aliphatics >C16-C21	mg/l	<0.01	-	0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
aliphatics >C21-C35	mg/l	<0.01	-	0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Total aliphatics C5-35	mg/l	<0.01	-	0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Aromatics			-	0	-	-	-	-	-	-	-
aromatics >EC5-EC7	mg/l	<0.01	-	0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
aromatics >EC7-EC8	mg/l	<0.01	-	0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
aromatics >EC8-EC10	mg/l	<0.01	190	0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
aromatics >EC10-EC12	mg/l	<0.005	660	0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
aromatics >EC12-EC16	mg/l	<0.01	3700	0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
aromatics >EC16-EC21	mg/l	<0.01	-	0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
aromatics >EC21-EC35	mg/l	<0.01	-	0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Total aromatics C5-35	mg/l	<0.01	-	0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Total aliphatics and aromatics(C5-35)	mg/l	<0.01	-	0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
			-	0	-	-	-	-	-	-	-

Exceeds GAC
Exceeds LOD

Client Name	2 Sisters Food Group
Site Name	Llangefni
Job Number	406.064893.00001
Date	06/10/2023
Description of Data Assessment / Zoning	Environmental Risk Assessment
Selected Screening Value and Land Use	Commercial

Sample ID					BH6	BH12	BH13	BH14	BH15	BH5	BH4	BH3
Depth					1.01	1.193	1.15	1.483	1.505	1.168	1.403	1.052
Sample Type					Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water
Sampled Date					23/09/19	23/09/20	23/09/20	45189	45189	45189	45189	45189
Sample Received Date					23/09/23	23/09/23	23/09/23	23/09/2023	23/09/2023	23/09/2023	23/09/2023	23/09/2023
EMT Sample No					57-64	65-72	73-80	81-88	89-96	97-104	105-112	113-120
Batch Number					1	1	1	1	1	1	1	1
0					-	-	-	-	-	-	-	-
Chlorobenzene	mg/l	<0.002	15	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1,1,1,2-Tetrachloroethane	mg/l	<0.002	22	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Ethylbenzene	mg/l	<0.001	960	0	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
m & p Xylene	mg/l	<0.002	-	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
o-Xylene	mg/l	<0.001	-	0	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Styrene	mg/l	<0.002	810	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Bromoform	mg/l	<0.002	-	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Isopropylbenzene	mg/l	<0.003	86	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
1,1,2,2-Tetrachloroethane	mg/l	<0.004	150	0	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Bromobenzene	mg/l	<0.002	20	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1,2,3-Trichloropropane	mg/l	<0.003	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Propylbenzene	mg/l	<0.003	240	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
2-Chlorotoluene	mg/l	<0.003	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
1,3,5-Trimethylbenzene	mg/l	<0.003	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
4-Chlorotoluene	mg/l	<0.003	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Tert-Butylbenzene	mg/l	<0.003	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
1,2,4-Trimethylbenzene	mg/l	<0.003	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Sec-Butylbenzene	mg/l	<0.003	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
4-Isopropyltoluene	mg/l	<0.003	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
1,3-Dichlorobenzene	mg/l	<0.003	2.8	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
1,4-Dichlorobenzene	mg/l	<0.003	460	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
n-Butylbenzene	mg/l	<0.003	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
1,2-Dichlorobenzene	mg/l	<0.003	220	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
1,2-Dibromo-3-Chloropropane	mg/l	<0.002	-	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1,2,4-Trichlorobenzene	mg/l	<0.003	7.2	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Hexachlorobutadiene	mg/l	<0.003	0.23	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Naphthalene	mg/l	<0.002	23	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1,2,3-Trichlorobenzene	mg/l	<0.003	3.1	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
			-	0	-	-	-	-	-	-	-	-
Methyl Tertiary Butyl Ether	mg/l	<0.0001	78000	0	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Benzene	mg/l	<0.0005	20	0	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Toluene	mg/l	<0.005	21000	0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Ethylbenzene	mg/l	<0.001	960	0	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
m & p Xylene	mg/l	<0.002	-	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
o-Xylene	mg/l	<0.001	-	0	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Total Xylenes	mg/l	<0.003	-	0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
			-	0	-	-	-	-	-	-	-	-
TPH CWG			-	0	-	-	-	-	-	-	-	-
Aliphatics			-	0	-	-	-	-	-	-	-	-
aliphatics >C5-C6	mg/l	<0.01	190	0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
aliphatics >C6-C8	mg/l	<0.01	150	0	<0.01	0.04	<0.01	<0.01	<0.01	<0.01	<0.01	0.02
aliphatics >C8-C10	mg/l	<0.01	5.7	0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.58
aliphatics >C10-C12	mg/l	<0.005	3.6	0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
aliphatics >C12-C16	mg/l	<0.01	-	0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.13
aliphatics >C16-C21	mg/l	<0.01	-	0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.21
aliphatics >C21-C35	mg/l	<0.01	-	0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Total aliphatics C5-35	mg/l	<0.01	-	0	<0.01	0.04	<0.01	<0.01	<0.01	<0.01	<0.01	0.94
Aromatics			-	0	-	-	-	-	-	-	-	-
aromatics >EC5-EC7	mg/l	<0.01	-	0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
aromatics >EC7-EC8	mg/l	<0.01	-	0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
aromatics >EC8-EC10	mg/l	<0.01	190	0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
aromatics >EC10-EC12	mg/l	<0.005	660	0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
aromatics >EC12-EC16	mg/l	<0.01	3700	0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.1
aromatics >EC16-EC21	mg/l	<0.01	-	0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.13
aromatics >EC21-EC35	mg/l	<0.01	-	0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Total aromatics C5-35	mg/l	<0.01	-	0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.23
Total aliphatics and aromatics(C5-35)	mg/l	<0.01	-	0	<0.01	0.04	<0.01	<0.01	<0.01	<0.01	<0.01	1.17
			-	0	-	-	-	-	-	-	-	-

Exceeds GAC
Exceeds LOD

Client Name	2 Sisters Food Group
Site Name	Llangefni
Job Number	406.064893.00001
Date	06/10/2023
Description of Data Assessment / Zoning	Environmental Risk Assessment
Selected Screening Value and Land Use	Commercial

Sample ID					SW-N	SW-M	SW-S
Depth					-	-	-
Sample Type					Surface Water	Surface Water	Surface Water
Sampled Date					45189	45189	45189
Sample Received Date					23/09/2023	23/09/2023	23/09/2023
EMT Sample No					121-128	129-136	137-144
Batch Number					1	1	1
0					-	-	-
Chlorobenzene	mg/l	<0.002	15	0	<0.002	<0.002	<0.002
1,1,1,2-Tetrachloroethane	mg/l	<0.002	22	0	<0.002	<0.002	<0.002
Ethylbenzene	mg/l	<0.001	960	0	<0.001	<0.001	<0.001
m & p Xylene	mg/l	<0.002	-	0	<0.002	<0.002	<0.002
o-Xylene	mg/l	<0.001	-	0	<0.001	<0.001	<0.001
Styrene	mg/l	<0.002	810	0	<0.002	<0.002	<0.002
Bromoform	mg/l	<0.002	-	0	<0.002	<0.002	<0.002
Isopropylbenzene	mg/l	<0.003	86	0	<0.003	<0.003	<0.003
1,1,2,2-Tetrachloroethane	mg/l	<0.004	150	0	<0.004	<0.004	<0.004
Bromobenzene	mg/l	<0.002	20	0	<0.002	<0.002	<0.002
1,2,3-Trichloropropane	mg/l	<0.003	-	0	<0.003	<0.003	<0.003
Propylbenzene	mg/l	<0.003	240	0	<0.003	<0.003	<0.003
2-Chlorotoluene	mg/l	<0.003	-	0	<0.003	<0.003	<0.003
1,3,5-Trimethylbenzene	mg/l	<0.003	-	0	<0.003	<0.003	<0.003
4-Chlorotoluene	mg/l	<0.003	-	0	<0.003	<0.003	<0.003
Tert-Butylbenzene	mg/l	<0.003	-	0	<0.003	<0.003	<0.003
1,2,4-Trimethylbenzene	mg/l	<0.003	-	0	<0.003	<0.003	<0.003
Sec-Butylbenzene	mg/l	<0.003	-	0	<0.003	<0.003	<0.003
4-Isopropyltoluene	mg/l	<0.003	-	0	<0.003	<0.003	<0.003
1,3-Dichlorobenzene	mg/l	<0.003	2.8	0	<0.003	<0.003	<0.003
1,4-Dichlorobenzene	mg/l	<0.003	460	0	<0.003	<0.003	<0.003
n-Butylbenzene	mg/l	<0.003	-	0	<0.003	<0.003	<0.003
1,2-Dichlorobenzene	mg/l	<0.003	220	0	<0.003	<0.003	<0.003
1,2-Dibromo-3-Chloropropane	mg/l	<0.002	-	0	<0.002	<0.002	<0.002
1,2,4-Trichlorobenzene	mg/l	<0.003	7.2	0	<0.003	<0.003	<0.003
Hexachlorobutadiene	mg/l	<0.003	0.23	0	<0.003	<0.003	<0.003
Naphthalene	mg/l	<0.002	23	0	<0.002	<0.002	<0.002
1,2,3-Trichlorobenzene	mg/l	<0.003	3.1	0	<0.003	<0.003	<0.003
			-	0	-	-	-
Methyl Tertiary Butyl Ether	mg/l	<0.0001	78000	0	<0.0001	<0.0001	<0.0001
Benzene	mg/l	<0.0005	20	0	<0.0005	<0.0005	<0.0005
Toluene	mg/l	<0.005	21000	0	<0.005	<0.005	<0.005
Ethylbenzene	mg/l	<0.001	960	0	<0.001	<0.001	<0.001
m & p Xylene	mg/l	<0.002	-	0	<0.002	<0.002	<0.002
o-Xylene	mg/l	<0.001	-	0	<0.001	<0.001	<0.001
Total Xylenes	mg/l	<0.003	-	0	<0.003	<0.003	<0.003
			-	0	-	-	-
TPH CWG			-	0	-	-	-
Aliphatics			-	0	-	-	-
aliphatics >C5-C6	mg/l	<0.01	190	0	<0.01	<0.01	<0.01
aliphatics >C6-C8	mg/l	<0.01	150	0	<0.01	<0.01	<0.01
aliphatics >C8-C10	mg/l	<0.01	5.7	0	<0.01	<0.01	<0.01
aliphatics >C10-C12	mg/l	<0.005	3.6	0	<0.005	<0.005	<0.005
aliphatics >C12-C16	mg/l	<0.01	-	0	<0.01	<0.01	<0.01
aliphatics >C16-C21	mg/l	<0.01	-	0	<0.01	<0.01	<0.01
aliphatics >C21-C35	mg/l	<0.01	-	0	<0.01	<0.01	<0.01
Total aliphatics C5-35	mg/l	<0.01	-	0	<0.01	<0.01	<0.01
Aromatics			-	0	-	-	-
aromatics >EC5-EC7	mg/l	<0.01	-	0	<0.01	<0.01	<0.01
aromatics >EC7-EC8	mg/l	<0.01	-	0	<0.01	<0.01	<0.01
aromatics >EC8-EC10	mg/l	<0.01	190	0	<0.01	<0.01	<0.01
aromatics >EC10-EC12	mg/l	<0.005	660	0	<0.005	<0.005	<0.005
aromatics >EC12-EC16	mg/l	<0.01	3700	0	<0.01	<0.01	<0.01
aromatics >EC16-EC21	mg/l	<0.01	-	0	<0.01	<0.01	<0.01
aromatics >EC21-EC35	mg/l	<0.01	-	0	<0.01	<0.01	<0.01
Total aromatics C5-35	mg/l	<0.01	-	0	<0.01	<0.01	<0.01
Total aliphatics and aromatics(C5-35)	mg/l	<0.01	-	0	<0.01	<0.01	<0.01
			-	0	-	-	-

Exceeds GAC
Exceeds LOD

Client Name	2 Sisters Food Group
Site Name	Llangefni
Job Number	406.064893.00001
Date	06/10/2023
Description of Data Assessment / Zoning	Environmental Risk Assessment
Selected Screening Value and Land Use	Commercial

Sample ID					BH11	BH10	BH1	BH9	BH2	BH8	BH7
Depth					0.527	0.348	0.471	0.3	0.493	0.592	0.665
Sample Type					Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water
Sampled Date					23/09/19	23/09/19	23/09/19	23/09/19	23/09/19	23/09/19	23/09/19
Sample Received Date					23/09/23	23/09/23	23/09/23	23/09/23	23/09/23	23/09/23	23/09/23
EMT Sample No					1-8	9-16	17-24	25-32	33-40	41-48	49-56
Batch Number					1	1	1	1	1	1	1
0								-	-	-	-
Chloride	mg/l	<0.3	-	0	11	24	36	43	80	260	56
Nitrate	mg/l	<0.05	-	0	0.49	0.5	0.83	0.9	0.97	<0.05	11
			-	0	-	-	-	-	-	-	-
Ammoniacal Nitrogen as NH4	mg/l	<0.03	-	0	<0.03	0.26	0.08	0.13	<0.03	12.27	<0.03
			-	0	-	-	-	-	-	-	-
Electrical Conductivity @25C	uS/cm	<2	-	0	350	560	590	660	670	1600	770
pH	pH units	<0.01	-	0	8	7.8	7.9	7.8	8	7.9	7.8
Total Organic Carbon	mg/l	<2	-	0	<2	<2	3	<2	<2	<2	<2
			-	0	-	-	-	-	-	-	-
Dissolved Arsenic	mg/l	<0.0009	-	0	0.0016	0.0012	0.0015	0.002	<0.0009	0.0034	<0.0009
Dissolved Cadmium	mg/l	<0.00003	-	0	0.00007	<0.00003	<0.00003	0.00003	<0.00003	0.00008	0.00007
Total Dissolved Chromium	mg/l	<0.0002	-	0	0.0002	<0.0002	0.008	0.0009	0.0085	0.0039	0.0049
Dissolved Copper	mg/l	<0.001	-	0	0.001	<0.001	0.002	0.003	<0.001	0.004	0.003
Dissolved Lead	mg/l	<0.0004	-	0	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	0.0005	<0.0004
Dissolved Mercury	mg/l	<0.0005	-	0	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Dissolved Nickel	mg/l	<0.0002	-	0	0.005	0.0038	0.0031	0.0037	0.0013	0.014	0.0032
Dissolved Selenium	mg/l	<0.0012	-	0	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	0.0019	<0.0012
Dissolved Zinc	mg/l	<0.0015	-	0	0.0076	0.0063	0.0034	0.0034	0.0089	0.0047	0.0022
			-	0	-	-	-	-	-	-	-
PCB 28	mg/l	<0.0001	-	0	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
PCB 52	mg/l	<0.0001	-	0	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
PCB 101	mg/l	<0.0001	-	0	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
PCB 118	mg/l	<0.0001	-	0	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
PCB 138	mg/l	<0.0001	-	0	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
PCB 153	mg/l	<0.0001	-	0	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
PCB 180	mg/l	<0.0001	-	0	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Total 7 PCBs	mg/l	<0.0007	-	0	<0.0007	<0.0007	<0.0007	<0.0007	<0.0007	<0.0007	<0.0007
			-	0	-	-	-	-	-	-	-
OrthoPhosphate as PO4	mg/l	<0.06	-	0	0.24	0.23	<0.06	0.2	0.09	<0.06	0.13
			-	0	-	-	-	-	-	-	-
COD*	mg/l	<7	-	0	8	11	16	14	<7	<7	<7
			-	0	-	-	-	-	-	-	-
BOD	mg/l	<1	-	0	<1	<1	<1	1	<1	<1	4

Exceeds GAC
Exceeds LOD

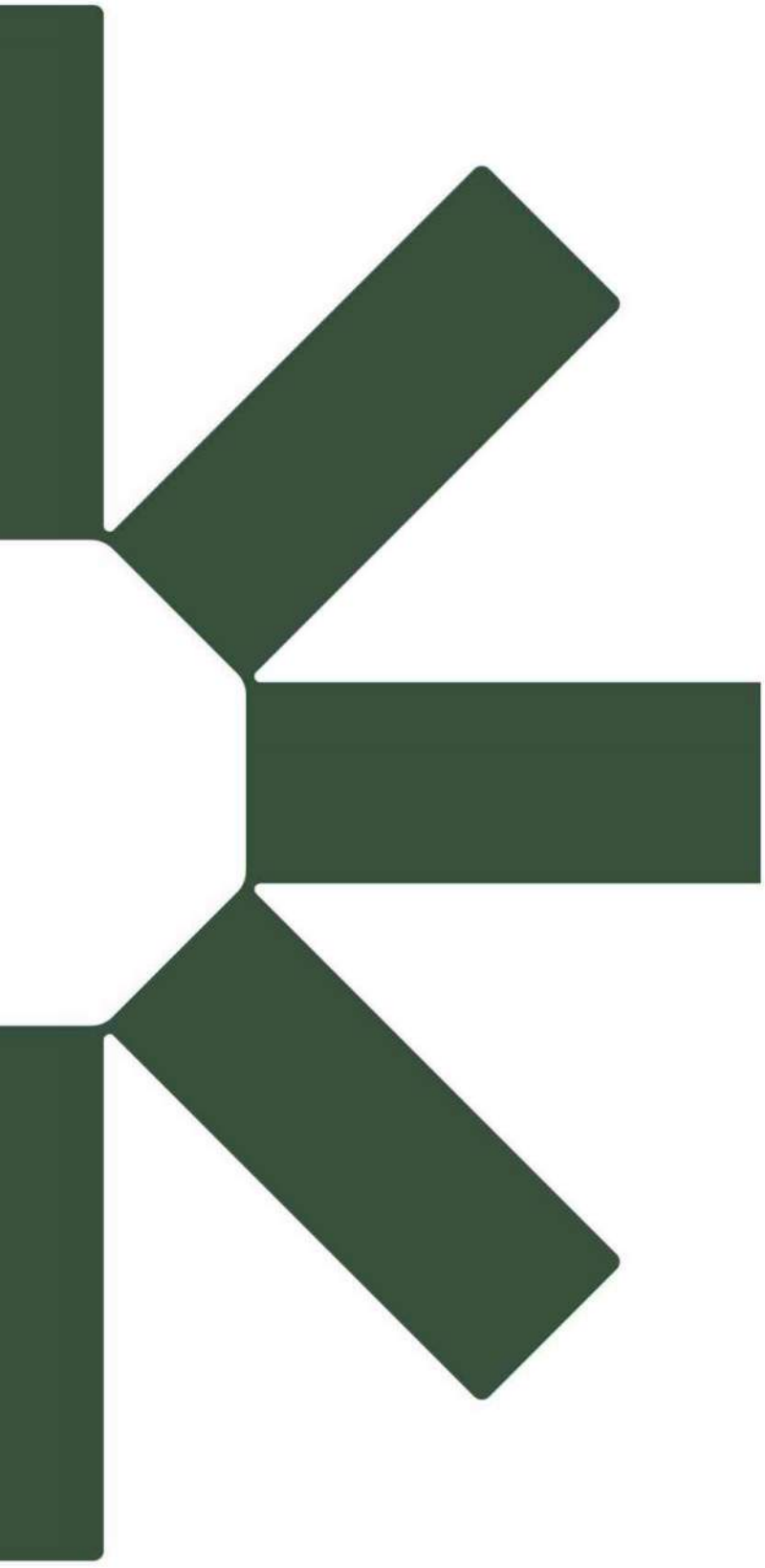
Client Name	2 Sisters Food Group
Site Name	Llangefni
Job Number	406.064893.00001
Date	06/10/2023
Description of Data Assessment / Zoning	Environmental Risk Assessment
Selected Screening Value and Land Use	Commercial

Sample ID					BH6	BH12	BH13	BH14	BH15	BH5	BH4	BH3
Depth					1.01	1.193	1.15	1.483	1.505	1.168	1.403	1.052
Sample Type					Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water
Sampled Date					23/09/19	23/09/20	23/09/20	45189	45189	45189	45189	45189
Sample Received Date					23/09/23	23/09/23	23/09/23	23/09/2023	23/09/2023	23/09/2023	23/09/2023	23/09/2023
EMT Sample No					57-64	65-72	73-80	81-88	89-96	97-104	105-112	113-120
Batch Number					1	1	1	1	1	1	1	1
0					-	-	-	-	-	-	-	-
Chloride	mg/l	<0.3	-	0	98	15	88	19	120	48	48	99
Nitrate	mg/l	<0.05	-	0	3.4	0.36	<0.05	0.08	0.07	<0.05	1.7	<0.05
			-	0	-	-	-	-	-	-	-	-
Ammoniacal Nitrogen as NH4	mg/l	<0.03	-	0	0.04	0.11	<0.03	0.12	2.04	1.18	0.29	<0.03
			-	0	-	-	-	-	-	-	-	-
Electrical Conductivity @25C	uS/cm	<2	-	0	1700	590	930	400	960	670	910	700
pH	pH units	<0.01	-	0	7.6	7.8	7.5	7.6	7.5	7.5	7.8	7.8
Total Organic Carbon	mg/l	<2	-	0	29	<2	<2	3	<2	<2	15	6
			-	0	-	-	-	-	-	-	-	-
Dissolved Arsenic	mg/l	<0.0009	-	0	0.0018	<0.0009	<0.0009	<0.0009	0.0015	<0.0009	0.0031	0.0011
Dissolved Cadmium	mg/l	<0.00003	-	0	0.00004	0.00065	0.0029	<0.00003	0.00012	<0.00003	<0.00003	0.00004
Total Dissolved Chromium	mg/l	<0.0002	-	0	0.0066	0.001	0.0034	0.0039	<0.0002	<0.0002	0.0032	<0.0002
Dissolved Copper	mg/l	<0.001	-	0	0.002	0.004	0.015	0.002	<0.001	<0.001	0.005	0.001
Dissolved Lead	mg/l	<0.0004	-	0	0.0006	0.0075	0.02	<0.0004	0.0027	<0.0004	0.0009	<0.0004
Dissolved Mercury	mg/l	<0.0005	-	0	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Dissolved Nickel	mg/l	<0.0002	-	0	0.02	0.034	0.096	0.0004	0.22	0.005	0.0037	0.0018
Dissolved Selenium	mg/l	<0.0012	-	0	0.03	0.002	<0.0012	<0.0012	<0.0012	<0.0012	0.011	<0.0012
Dissolved Zinc	mg/l	<0.0015	-	0	0.0052	0.0054	0.0084	<0.0015	0.0026	0.0025	0.0056	0.0018
			-	0	-	-	-	-	-	-	-	-
PCB 28	mg/l	<0.0001	-	0	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
PCB 52	mg/l	<0.0001	-	0	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
PCB 101	mg/l	<0.0001	-	0	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
PCB 118	mg/l	<0.0001	-	0	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
PCB 138	mg/l	<0.0001	-	0	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
PCB 153	mg/l	<0.0001	-	0	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
PCB 180	mg/l	<0.0001	-	0	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Total 7 PCBs	mg/l	<0.0007	-	0	<0.0007	<0.0007	<0.0007	<0.0007	<0.0007	<0.0007	<0.0007	<0.0007
			-	0	-	-	-	-	-	-	-	-
OrthoPhosphate as PO4	mg/l	<0.06	-	0	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06
			-	0	-	-	-	-	-	-	-	-
COD*	mg/l	<7	-	0	<7	12	<7	10	24	16	48	29
			-	0	-	-	-	-	-	-	-	-
BOD	mg/l	<1	-	0	<1	<1	<1	<1	3	2	<1	3

Exceeds GAC
Exceeds LOD

Client Name	2 Sisters Food Group
Site Name	Llangefni
Job Number	406.064893.00001
Date	06/10/2023
Description of Data Assessment / Zoning	Environmental Risk Assessment
Selected Screening Value and Land Use	Commercial

Sample ID					SW-N	SW-M	SW-S
Depth					-	-	-
Sample Type					Surface Water	Surface Water	Surface Water
Sampled Date					45189	45189	45189
Sample Received Date					23/09/2023	23/09/2023	23/09/2023
EMT Sample No					121-128	129-136	137-144
Batch Number					1	1	1
0					-	-	-
Chloride	mg/l	<0.3	-	0	18	18	18
Nitrate	mg/l	<0.05	-	0	0.45	0.43	0.43
			-	0	-	-	-
Ammoniacal Nitrogen as NH4	mg/l	<0.03	-	0	0.09	0.09	0.09
			-	0	-	-	-
Electrical Conductivity @25C	uS/cm	<2	-	0	270	270	270
pH	pH units	<0.01	-	0	8	8	8
Total Organic Carbon	mg/l	<2	-	0	13	13	13
			-	0	-	-	-
Dissolved Arsenic	mg/l	<0.0009	-	0	0.0013	0.0013	0.0014
Dissolved Cadmium	mg/l	<0.00003	-	0	<0.00003	<0.00003	<0.00003
Total Dissolved Chromium	mg/l	<0.0002	-	0	0.0071	0.007	0.0072
Dissolved Copper	mg/l	<0.001	-	0	0.005	0.005	0.005
Dissolved Lead	mg/l	<0.0004	-	0	0.0007	0.0005	0.0011
Dissolved Mercury	mg/l	<0.0005	-	0	<0.0005	<0.0005	<0.0005
Dissolved Nickel	mg/l	<0.0002	-	0	0.002	0.0019	0.002
Dissolved Selenium	mg/l	<0.0012	-	0	<0.0012	<0.0012	<0.0012
Dissolved Zinc	mg/l	<0.0015	-	0	0.0039	0.0039	0.0062
			-	0	-	-	-
PCB 28	mg/l	<0.0001	-	0	<0.0001	<0.0001	<0.0001
PCB 52	mg/l	<0.0001	-	0	<0.0001	<0.0001	<0.0001
PCB 101	mg/l	<0.0001	-	0	<0.0001	<0.0001	<0.0001
PCB 118	mg/l	<0.0001	-	0	<0.0001	<0.0001	<0.0001
PCB 138	mg/l	<0.0001	-	0	<0.0001	<0.0001	<0.0001
PCB 153	mg/l	<0.0001	-	0	<0.0001	<0.0001	<0.0001
PCB 180	mg/l	<0.0001	-	0	<0.0001	<0.0001	<0.0001
Total 7 PCBs	mg/l	<0.0007	-	0	<0.0007	<0.0007	<0.0007
			-	0	-	-	-
OrthoPhosphate as PO4	mg/l	<0.06	-	0	0.09	0.17	0.08
			-	0	-	-	-
COD*	mg/l	<7	-	0	28	36	27
			-	0	-	-	-
BOD	mg/l	<1	-	0	2	1	1



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