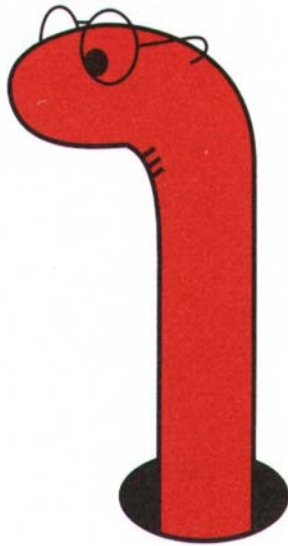


Electronic Report



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Our Ref: Roundthorn Road / M24 1FT / 2018
Date: 11 June 2026

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RAMSDEN FARM, ROUNDTORN ROAD, MIDDLETON, MANCHESTER, M24 1FT
INTRUSIVE REPORT – PLOTS 5-7 (Updated 11/6/26)

INTRODUCTION

A residential development is proposed. Following a Preliminary Risk Assessment (PRA 19/9/18) instructions were to carry out boreholes, tests and gas testing to investigate potential contamination and ground gas issues. This is an updated version of our report dated 8/4/26 following completion of gas monitoring.

SITE LOCATION

The overall Ramsden Farm plot is triangular, about 150 x 125m, located to the north of Roundthorn Road in Middleton and at OS Grid Reference 387707, 405374. The site is an irregular shaped plot, about 75 by 45m in total. The site is at the southeast of the overall plot and is situated to the southeast of the recently developed Phase 1 (four detached houses – Plots 1-4). Construction has started on plot 5, at the northeast, with footings laid and block and beam floor built. To the northwest and southeast of the house there is sand at ground level, with the remainder of the plot being grass surfaced, rising up to the southeast to nearby houses. The area dips to the northeast.

The following reports have been used in compiling this report:

- Preliminary Risk Assessment (PRA) 19th September 2019.
- Exploratory Intrusive Report 12th June 2019.
- Soil Contamination Report 11th September 2019.
- Coal Mining Risk Assessment (CMRA) 11th November 2024.

PROPOSED DEVELOPMENT

It is proposed to build three detached houses running northeast to southwest. Referred to as Plot 5 (northeast), Plot 6 (middle) and Plot 7 (southwest), these will have gardens to their southeast and driveways to their northwest. The southwest of the site will be reserved for new planting.

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PRELIMINARY RISK ASSESSMENT

Worms Eye carried out a PRA dated 19/9/18, the salient points, updated to be relevant to the current site, were:

Geology of Site

The geological map indicates that the underlying solid rocks are undefined strata, likely to be mudstone, of the Pennine Lower Coal Measures, dipping to the south.

Surface drift is shown as glacial sand and gravel of unknown thickness.

Contamination

The site is a vacant plot with fields to the north, east, northwest and housing to the southeast, southwest and west. There have previously been several farm buildings to the north, these were demolished, following a fire circa 2005, and have now built over by plots 1-4.

Farms are potential sources of contaminants from use and storage of vehicles and materials exceeding residential thresholds. Demolition rubble from the farm may be present on-site and this is another possible source of raised levels of contaminants. These are not expected at high levels, but low levels may be present, exceeding stringent residential thresholds.

The fire at the farm could also introduce contaminants to the ground. The fire can generate contaminants (especially hydrocarbons – PAHs) or release building materials (especially asbestos). The fire water can transport contaminants around the site.

Plots 5-7 are a previously undeveloped field where only very low levels of contaminants are anticipated. No pollutant linkages are expected to arise and a very low risk is anticipated. There are no specific point sources for contaminants on site and the investigation will need to target proposed gardens and houses.

PRA Re-Cap Continued

Controlled Waters

There is an underlying Secondary A aquifer beneath glacial sand and gravel.

Wince Brook is over 92m north.

The gardens will allow rainwater to pass through the surface soils, potentially leaching out contaminants that may migrate towards the aquifer and Wince Brook. However, bearing in mind this is a previously undeveloped plot, very low levels of contaminants are expected, the distance to Wince Brook, and absence of ground water receptors, no risk is anticipated to controlled waters.

Landfill Gas/Ground Gas

The site is within 250m of an historical landfill and six additional filled features. These are potential landfill and ground gas sources which could present a risk to the development. Bearing in mind their size, distance, and river between the site and the landfill, it is considered that there may be a low risk to the development and a gas testing programme is required.

A landfill, 108 metres northeast, is northeast of Wince Brook which flows through a valley. The valley will act as a venting trench to migrating gases and the landfill is therefore not a risk.

There are two shallow, unworked, coal seams. Bearing in mind these are not worked, it is considered there is no mine risk to the development.

Radon

The site is in a lower probability radon area as less than 1% of homes in the area are above the radon action level. Radon protection measures are not required.

Industry Profile

The site is a previously developed plot on a farm.

Industry	Possible Contaminants
Farm	Metals e.g.: copper, zinc, chromium, nickel, lead, cadmium, arsenic, Inorganic compounds: cyanide, sulphates Phenols Mineral oils/fuel oils/diesel/petrol (TPHs) Asbestos Pesticides General hydrocarbons (PAHs)

PRA Re-Cap Continued

Summary of Coal Seams

Seam	Thickness (m)	Worked	Plot	Depth Below Rock (m)	Rock Cover/ Thickness	Sufficient Cover
Higher Bent	0.8	No	5	2	2	No
			6	6	7	No
			7	10	12	Yes
Probably Lower Bent	0.8	No	5	6 – 11	>7	No
			6	10 – 15	>12	Yes
			7	14 – 19	>17	Yes
Olive	Inferior	No	All	26 – 39	>20	Yes

Mine Shaft

The nearest mine shaft is about 20m southwest of the proposed planting area, 103m from the nearest proposed house. Bearing in mind:

- Rock at 16.5m deep at the closest borehole to the shaft (from WE BHs).
- 8m departure for mapping error (CA interactive map).
- 2.5m diameter shaft.
- 45° angle of response, in drift deposits if the shaft were to collapse.

This indicates a Zone of Influence of 26m radius around the plotted location, and possible area of damage of 18m radius around the actual location. This will not affect the proposed houses.

Pollutant Linkages

The potential pollutant linkages revealed by the PRA as requiring further investigation were:

Source	Receptors	Pathway	Potential/Likely Pollutant Linkage
Asbestos	End-users	Inhalation	Yes
	Off-site	Migration off-site	Yes
Inorganic contaminants	Householders	Direct contact, ingestion, from home grown vegetables, ingestion and inhalation of dust	Yes
	Groundwater	Leaching towards	Unlikely
	River/stream	Leaching towards	Unlikely
Sulphate	Building fabric	Concrete directly in contact with soil	Possibly
Hydrocarbons	Householders	Direct contact, ingestion, from home grown vegetables, ingestion and inhalation of dust	Yes
	Service pipes	Seeping into drinking water pipes	Yes
	Groundwater	Migrating towards	Possibly
	River/stream	Migrating/leaching towards	Possibly
Hydrocarbon vapours	Householders	Inhalation of vapours indoors and outdoors	No
Landfill gas	End-users (inside)	Seeping into buildings, explosion, asphyxiation	Yes
Radon	End-users (inside)	Seeping into buildings	No

End of PRA Re-Cap

PREVIOUS INVESTIGATIONS (Plots 1 – 4)

Trial Holes

THA (north corner) had made ground (topsoil, bricks, steel and concrete) to 1.8m, and THB (northwest/middle) made ground (sand, topsoil, brick and plastic bags) to 0.25m, both overlying sand.

THs I and J, along the access track, had made ground (topsoil, sand, brick, gravel, and ash) to 0.9m.

The remaining trial holes had a thin band of topsoil (up to 0.35m) overlying sand, to about 2m.

Rotary Boreholes/Shallow Mining

The following approximates to a section looking northwest through the rotary boreholes.

Strata	RC5 (m)	RC4 (m)	RC3 (m)	RC2 (m)	RC1 (m)
Drift	0.0 - 16.5	0.0 – 18.0	0.0 – 15.5	0.0 – 16.5	0.0 – 14.0
Mudstone	16.5 – 32.0	18.0 – 30.3	15.5 – 23.1	16.5 – 22.0	14.0 – 21.3
Coal (intact)	32.0 – 32.8	30.3 – 31.0	23.1 – 23.7	22.0 – 22.8	21.3 – 22.1
Mudstone	32.8 – 37.4	31.0 – 35.2	23.7 – 29.5	22.8 – 30.2	22.1 – 31.4
Coal (intact)	37.4 – 38.1	35.2 – 36.0	29.5 – 30.3	30.2 – 31.0	31.4 – 32.0
Mudstone	38.1 – 40.0	36.0 – 39.0	30.3 – 33.0	31.0 – 33.0	32.0 – 50.0
Loss of Flush	No	No	No	No	No

Two shallow, intact, coal seams (0.6 – 0.8 metres thick) dip southwest across the site. Neither coal seam was worked, there were no voids or broken strata and there was no loss of flush.

Shallow Mining

The findings indicate there are no risks from shallow mine workings and no further action is required.

Mine Shaft

Regarding the nearby mine shaft, the following is considered:

- Factor of safety, Coal Authority indicate an 8 metres departure for mapping errors.
- Typical 2.5 metre diameter shaft (Coal Authority data).
- Rock at 16 metres deep.
- 45° angle of repose, in drift deposits, if the shaft were to collapse.
- Nearest house 103m away.

This indicates a possible zone of influence of 25.5 metres radius from the plotted Coal Authority position. This confirms that the proposed houses are clear of the zone of influence but the ZOI may impinge onto the planting area at the southwest by about 6m and is about 75m from plot 7.

The nearby mine shaft does not pose a risk to the proposed houses. As the southwest is to be a planting area, not a private or communal garden, and usage is likely to be very low, if at all, it is considered there is a negligible risk to the development and no further action is required.

Plots 1-4 Intrusive Report Re-Cap Continued

Contamination

Contamination levels are generally low, suggesting a very low risk to householders over most of the site. THA had raised levels of lead and dibenzo(ah)anthracene, which suggests a risk to householders in that area, requiring remedial works in the northwest garden and below paths and patios to plot 4. Tests from TH K1 – K4 show no spread indicating a localised risk around THA.

The sum of DDT, DDE and DDD results have been compared with international levels. This shows levels in THA exceed the Latvia and Sweden thresholds, but are below the Canadian threshold, and in K4 exceeds all three thresholds, by 80 - >5000 times.

Allowing a factor of safety for different countries, soil types and methodology, suggests THA and K4 exceed all three thresholds and a risk to householders from pesticides in THA and K4, northwest of Plot 4, moving southwest towards Plot 3. Remedial works are required to the northwest of plot 4, centred on THA and K4, and moving southwest to Plot 3.

Water Soluble Sulphate levels are low and suggest sulphate resistant concrete may not be required.

Barrier pipes are required on the southwest leg of plots 1-4, but the remainder may be suitable for PE water pipes.

Levels of volatile hydrocarbons are below thresholds and there is no risk from hydrocarbon vapours.

Controlled Waters

It is considered that risks to groundwater are very low and that no significant pathway will arise.

Landfill/Ground Gas/Mine Gas

A landfill, 108 metres northeast, is northeast of Wince Brook which flows through a valley. The valley will act as a venting trench to migrating gases and the landfill is therefore not a risk.

Gas test to plots 1-4 show worst case methane 8.5% and carbon dioxide 11.3% in Pr 1 (plot 4) with levels in Pr 2, 3 and 4 (plots 1, 2 and 3) showing worst case levels 0.1% methane, 2.7% carbon dioxide and 15.0% oxygen. There was no detectable outflow in any monitor.

Trial holes on plots 1-4 show limited made ground, with THA indicating possible localised pockets on the northeast side. This is consistent with raised gases seen on plot 4 and normal levels on plots 1, 2 and 3. Although this suggests a localised risk to plot 4, the spacing, and location, of wells is such that it is not possible to conclude there is no spread to plot 3. However, the results from Pr 2, 3 and 4, which show near normal levels, suggest no spread of gases to plots 1 and 2.

Plots 1-4 Intrusive Report Re-Cap Continued

Bearing in mind gas outflow, and GSV levels, it is considered the findings show a low risk to plot 4, and a very low risk, and a very low risk to plots 1, 2 and 3. Levels of methane and carbon dioxide on plot 4 are significantly elevated and suggest it is appropriate to raise the classification to a gas situation 2 and adjacent plot 3 as a precaution, with plots 1 and 2 classed as a gas situation 1.

End of Previous Report Re-Cap

GROUND INVESTIGATIONS

A series of four boreholes and two trial holes were carried out. Details are given on the enclosed location plan, borehole logs and trial hole logs.

Trial holes

THs A and B were excavated to shallow depth to collect samples for testing.

THA, at the southeast between plots 6 and 7 found topsoil to 0.1m overlying sand to its base at 1.2m.

THB, at the southeast corner of plot 5, had sand and topsoil to 0.31m overlying sand to 1.0m deep.

Boreholes

WS1 and WS4 both encountered sand from ground level to their base at 4.0m deep. WS2 and WS3 found sandy topsoil at ground level to about 0.3m overlying sand to their base at 4.0m deep.

The following approximates to a section looking northwest.

Findings	WS3 (m)	WS2 (m)	WS4 (m)	WS1 (m)
Sandy topsoil	0.0 – 0.3	0.0 – 0.26	-	-
Sand	0.3 – 4.0+	0.26 – 4.0+	0.0 – 4.0+	0.0 – 4.0+
Water	3.6	3.6	2.8	2.7

CONTAMINATION TESTING

Ten samples (six shallow and four deeper) were tested for a range of contaminants indicated by the PRA. The results have been compared with residential C4Ls, soil guideline values provided by CLEA, values based on the LQM/CIEH S4ULS or values from other sources if no UK threshold is available. This information has been brought together on the enclosed Comparison Table.

Asbestos – No asbestos fibres were seen.

Inorganics (metals etc.) – Very low levels, below residential thresholds.

Sulphate – Water Soluble Sulphate levels were below the BRE action level for buried concrete.

Hydrocarbons – Phenols, TPHs and PAHs all show low levels, below their respective residential thresholds.

Drinking Water Pipes

Comparing test results against trigger levels for drinking water pipes shows levels of contaminants are below the thresholds for PE water pipes.

DISPOSAL OF EXCAVATED SOIL

Results have been compared with hazardous waste thresholds and a Hazwaste Report is enclosed. This suggests excavated soil would not be classed as hazardous waste.

WAC tests show excavated soils would be suitable for disposal at inert waste landfill.

LEACHATE TESTING/WATER

Soil samples with the highest levels of contaminants were tested to determine the leachate potential. The results have been compared with the UK drinking water quality levels (DWQ) and Environmental Quality Standards (EQS) and the information has been brought together on the enclosed comparison table. This shows leachate levels to be below appropriate DWQ and EQS thresholds.

GAS TESTING

The boreholes were converted to gas monitors as follow:

	WS1 (m)	WS2 (m)	WS3 (m)	WS4 (m)
Plain pipe	0.0 – 1.0	0.0 – 1.0	0.0 – 1.0	0.0 – 1.0
Base of slotted pipe	2.9	3.9	3.9	3.0
Response zone	1.0 – 2.9	1.0 – 3.9	1.0 – 3.9	1.0 – 3.0

To date eleven gas tests have been carried out on three occasions. Worst-case values are:

Gas	Site Value	Limit of detection
Methane %	0.0	0.1
Oxygen %	19.2	0.1
Carbon dioxide %	1.3	0.1
Flow rate l/hr	0.0	0.1

Assessing Risks - CIRIA

Using CIRIA Report **C665 (2007)** this classifies the site as Characteristic Situation 1 (negligible gas) through to 6 (very high gas). Gas screening values (GSV) calculated from the worst-case values are:

	Site Value	Characteristic Situation 1		Characteristic Situation 2	
		Threshold	Pass/Fail	Threshold	Pass/Fail
Outflow (l/hr)	<0.1	-	-	70	P
Methane - Total (%)	<0.1	1	P	-	-
Methane GSV (l/hr)	<0.001	0.07	P	0.7	P
CO ₂ -Total (%)	1.3	5	P	-	-
CO ₂ GSV (l/hr)	<0.001	0.07	P	0.7	P

Gas screening value = gas concentration (%) multiplied by outflow (l/hr)

These conditions classify the site Situation 1.

Assessing Risks - NHBC

For low-rise housing with ventilated underfloor void, the NHBC method is used to classify the site. These range from Green (negligible gas), through Amber 1 and Amber 2, to Red (high gas). Gas screening values (GSV) calculated from the worst-case values are:

	Site Value	Green		Amber 1	
		Threshold	Pass/Fail	Threshold	Pass/Fail
Outflow (l/hr)	<0.1	-	-	-	-
Methane - Total (%)	<0.1	1	P	5	P
Methane GSV (l/hr)	<0.001	0.16	P	0.63	P
CO ₂ -Total (%)	1.3	5	P	10	P
CO ₂ GSV (l/hr)	<0.001	0.78	P	1.56	P

Gas screening value = gas concentration (%) multiplied by outflow (l/hr)

These conditions classify the site as Green using the NHBC gradings.

DISCUSSION

Contamination

Contamination tests show low levels of contaminants, below appropriate residential thresholds. These show no risk to householders and no remedial works, or further actions are required.

Water Soluble Sulphate levels are low and sulphate resistant concrete is not required.

Volatile hydrocarbons are below the thresholds and there is no risk from hydrocarbon vapours.

The findings show the site is suitable for PE water pipes, subject to approval.

Excavated Soils

Test results suggest excavated soil would not be classed as hazardous waste and WAC tests show they would be suitable for disposal at inert waste landfill.

Controlled Waters

Regarding risks to controlled waters:

- The site is underlain by a Secondary A aquifer.
- The nearest water course is Wince Brook over 92m north.
- Low levels of soil contaminants and leachate levels are below appropriate thresholds.
- There are no nearby source protection zones or water abstraction points.

Bearing in mind all of the above factors, it is considered that there are no risks to controlled waters and that no significant pathway will arise.

Landfill Gas/Ground Gas

Gas monitoring has been carried out over a period of 3 months with a variety of atmospheric and weather conditions. The results show no methane, very low carbon dioxide, near normal oxygen and no detectable gas outflow. These results correspond to a gas situation 1/green situation indicating no risk and requiring no special precautions.

Shallow Mining

The findings from Phase 1 confirm two shallow seams are present but neither seam is worked. These findings indicate are no risks from shallow mining and no further action is required.

Mine Shaft

The findings suggest, if the nearest mine shaft collapsed, the ZOI may impinge onto the planting area at the southwest by about 6m, 75m from plot 7. The shaft does not pose a risk to the houses and, as the southwest is a planting area, not a private or communal garden, usage is likely to be very low, if at all, and it is considered there is a negligible risk to the development. No further action is required.

CONCEPTUAL MODEL

Source	Receptors	Pathway	Complete Pollutant Linkage
Asbestos (none seen)	End-users	Inhalation	No
	Off-site	Migration off-site	No
Inorganic contaminants (low)	Householders	Direct contact, ingestion, from home grown vegetables, ingestion and inhalation of dust	No
	Groundwater	Leaching towards	No
	River/stream	Leaching towards	No
Sulphate (low)	Building fabric	Concrete directly in contact with soil	No
Hydrocarbons (low)	Householders	Direct contact, ingestion, from home grown vegetables, ingestion and inhalation of dust	No
	Service pipes	Seeping into drinking water pipes	No
	Groundwater	Migrating towards	No
	River/stream	Migrating/leaching towards	No
Hydrocarbon vapours (low)	Householders	Inhalation of vapours indoors and outdoors	No
Landfill gas (very low levels)	End-users (inside)	Seeping into buildings, explosion, asphyxiation	No
Radon	End-users (inside)	Seeping into buildings	No

BREAKING PATHWAYS

Construction Workers

Site workers should be made aware of the hazards of working with contaminated soils, and appropriate procedures and PPE adopted to ensure the health and safety of the site operative. All site personnel should be briefed on the discovery strategy in the watching brief and what actions they must take in the event that further evidence of contamination is identified or suspected.

Normal precautions for an urban renewal type project are required. These would include the use of gloves and the provision of washing facilities to avoid ingestion of contaminants.

Watching Brief

A watching brief for unexpected contaminants should be maintained. If unexpected contaminants (e.g. asbestos, oily material, unusual smells) are seen, especially during excavations, work should cease and the consultant be notified and the site inspected.

We suggest taking regular photographs (daily or more frequent) of excavations to include in the validation report.

Excavated Soils

Test results suggest excavated soil would not be classed as hazardous waste and WAC tests indicate they would be suitable for disposal at inert waste landfill. The results should be passed to the receiving site for confirmation of its status.

Testing required on imported material

The following tests are required on imported material, tested by the developer or by the supplier:

- Virgin quarried material – 1 or 2 tests depending on stone type. Testing to include arsenic, cadmium, chromium (total), chromium VI, copper, mercury, nickel, lead, selenium, zinc.
- Crushed hardcore, stone, brick – minimum of 1 test per 1000m³. Testing to include arsenic, cadmium, chromium (total), chromium VI, copper, mercury, nickel, lead, selenium, zinc, PAH (16 USEPA speciation), asbestos, TPHs.
- Greenfield/manufactured soils – minimum of 3 tests or 1 test per 250m³ (whichever is greater). Testing to include arsenic, cadmium, chromium (total) chromium VI, copper, mercury, nickel, lead, selenium, zinc, PAH (16 USEPA speciation), asbestos, TPHs.
- Brownfield/screened soils – minimum of 6 tests or 1 per 100m³ (whichever is greater). Testing to include arsenic, cadmium, chromium (total) chromium VI, copper, mercury, nickel, lead, selenium, zinc, PAH (16 USEPA speciation), asbestos, TPHs and any additional analysis dependant on the history of the donor site.

Soil Screen Values

Tests carried out on the imported material, either by the supplier or the consultant, to be screened against residential values, based on 1% SOM. If these are exceeded, site specific value may be derived, subject to them being appropriate.

Validation

A validation report will be required on completion, this will require but not necessarily be limited to:

- Tickets from waste removal contractor and receiving landfill.
- Contamination test results for tests on imported soils.
- Photographs to confirm thickness of imported soil types.
- Document (receipt, delivery notes) to show soil types and sources.

This report is usually a collaboration between the contractor, who will collect the above documentation and Worms Eye, who can assist in preparing the Validation Report

OPINION**Contaminated Soils**

Contamination tests show levels below thresholds appropriate for the development. It is considered these suggest no risk to end-users and no further action is required.

Sulphate resistant concrete is not required.

There are no risks from hydrocarbon vapours.

The findings show the site is suitable for PE water pipes, subject to approval.

Excavated Soils

Excavated soil would not be classed as hazardous waste and should be suitable for disposal at inert waste landfill. The results should be passed to the receiving site for confirmation of its status.

Controlled Waters

The findings show no risk to controlled waters and no further action is required.

Gas Testing

Gas monitoring over a period of 3 month shows no gas risk. No further actions is needed and no special precautions are required.

Shallow Mining

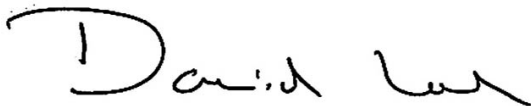
The findings show no risks from shallow mining and no further action is required.

Mine Shaft

The nearby mine shaft does not pose a risk to the development and no further action is required.

Yours faithfully

on behalf of Worms Eye Ltd

A handwritten signature in black ink, appearing to read 'David Lord', with a stylized flourish at the end.

David Lord

BSc (Hons)

FGS, MIEEnvSc, AIEEMA

RAMSDEN FARM, ROUNDTORN ROAD, MIDDLETON, MANCHESTER, M24 1FT

PLOTS 5 - 7

List of Appendices – Intrusive Report

List of Acronyms

Existing site plan - showing borehole and trial hole locations

Proposed site plan – showing borehole and trial hole locations

Window Samper Borehole Logs

Trial Hole Logs

Contamination Test Results – Soil and Leachate

Contamination Comparison Table – Soil

Contamination Test Comparison – Leachate

Hazwaste Report

United Utilities Risk Assessment

Gas Test Results

Gas Monitor Calibration Certificate

PREVIOUS INVESTIGATION – PLOTS 1 TO 4 :

- **Borehole and Trial Hole Location Plan**
- **Trial Hole Logs**
- **Probe Logs 1 - 4**
- **Rotary Borehole Logs**
- **Contamination Test Results – Soil**
- **Contamination Comparison – Soil**
- **Gas Test Results**
- **Details of Gas Wells**

CONTAMINATION TEST UNITS

Conversion factor	Name	Symbol	Numerical Value	Alternative description	Commonly used for:
	per cent	%	1 in 100 (10 ²)		total sulphur, hazardous waste
% x10	parts per thousand	‰	1 in 1000 (10 ³)	g/l (grams per litre)	water soluble sulphate test
‰ x 1,000	parts per million	Ppm	1 in 1,000,000 (10 ⁶)	mg/kg (milligrams per kilogram)	most soil tests
				mg/l (milligrams per litre)	water tests
ppm x 1,000	parts per billion	Ppb	1 in 1,000,000,000 (10 ⁹)	µg/kg (micrograms per kilogram)	PAH soil tests
				µg/l (micrograms per litre)	water/leachate tests
ppb x 1,000	parts per trillion	Ppt	1 in 1,000,000,000,000 (10 ¹²)	ng/kg (nanograms per kilogram)	PAH soil tests
				ng/l (nanograms per litre)	water/leachate tests

ABBREVIATIONS

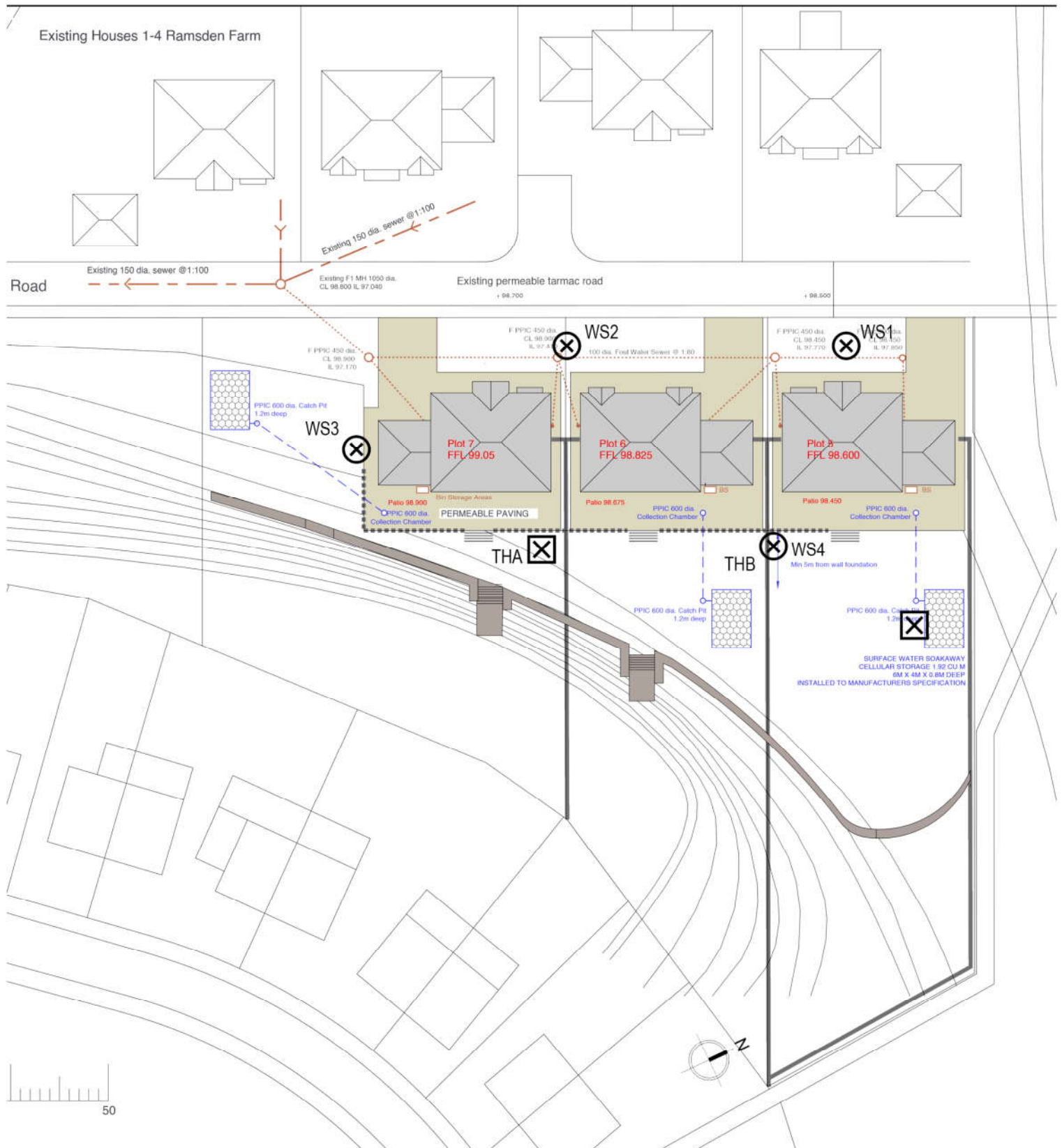
<u>Chemical</u>	BAP	Benzo(a)pyrene
	BTEX	Benzene, toluene, ethylbenzene, xylene
	DAHA	Dibenzo(ah)anthracene
	MTBE	Methyl tertiaryt-butyl ether (additive to petrol)
	EPH	Extractable petroleum hydrocarbons (formerly diesel range organics – DRO)
	NFD	No fibres detected (asbestos test)
	PAH	Polycyclic aromatic hydrocarbons
	PCB	Polychlorinated biphenyls
	PCE	Perchloroethylene or tetrachloroethylene
	PID	Photo ionisation detector (screen for VOC)
	PRO/GRO	Petrol range organics/gasoline range organics
	SVOC	Semi-volatile organic compounds
	TCE	Trichloroethylene
	TPH	Total petroleum hydrocarbons
	VOC	Volatile organic compounds
<u>Other</u>	AGS	Association of Geotechnical Specialists
	BGS	British Geological Survey
	BRE	Building Research Establishment
	CBR	California Bearing Ratio
	CIEH	Chartered Institute of Environmental Health
	CIRIA	Construction Industry Research and Information Association
	CLEA	Contaminated Land Exposure Assessment (Environment Agency/DEFRA)
	CLR 8	Contaminated Land Research Report 8 (Environment Agency/DEFRA)
	DWQ	Drinking water quality
	EA	Environment Agency
	EQS	Environmental quality standards (for rivers etc.)
	ICRCL	Inter-departmental Commission for the Reclamation of Contaminated Land
	LQM	Land Quality Management Ltd (Land and Environmental Consultancy).
	NHBC	National House Builders Council
	SGV	Soil Guideline Values
	SPT	Standard penetration test

1. This report should be considered in relation to the objectives agreed between Worms Eye and the Client, outlined in the introduction.
2. For the work, reliance has been placed on publicly available data, obtained from the sources identified in the report. The information is not exhaustive and further information may be available from other sources. When using the information it has been assumed it is correct, and no attempt has been made to verify the information.
3. This report has been produced in accordance with current UK policy and guidelines, for land and groundwater contamination, enforced by the Local Authority and the Environment Agency.
4. During the site walkover, reasonable effort was made to obtain an overview of the site. However, no attempt was made to enter areas that are unsafe, a risk to health and safety, locked, barricaded, overgrown, or areas not made accessible.
5. Access, the presence of services and activities on the site, limited locations where sampling could be carried out and the techniques that could be used.
6. Assessments are based on available information at the time of writing and are ultimately for the decision of the regulatory authorities.
7. The conclusions and recommendations provide an overview and guidance only and should not be specifically relied upon without considering the context of the report in full.
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9. New information, revised practices, or changes in legislation, may necessitate the re-interpretation of the report, in whole or in part.

Plots 5 - 7
RAMSDEN FARM, ROUNDTORN ROAD, MIDDLETON, MANCHESTER, M24 1FT
Existing Plan - Showing Borehole and Trial Hole Locations
Not to Scale



Plots 5 - 7
RAMSDEN FARM, ROUNDTORN ROAD, MIDDLETON, MANCHESTER, M24 1FT
Proposed Plan - Showing Borehole and Trial Hole Locations
Not to Scale



Worms Eye Limited PO Box 1157 COLNE, BB9 4HS					Site Ramsden Farm, Roundthorn Road, Middleton, Manchester			Number WS1		
Excavation Method Drive-in Windowless Sampler		Dimensions		Ground Level (mOD)		Client			Job Number M24 1FT	
		Location		Dates 27/02/2026		Project Contractor Worms Eye Ltd.			Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	Instr	
					(0.28) 0.28 (0.39) 0.67 (0.33) 1.00	Loose, brown sand (excavated by hand). Loose, orange/brown, sand (excavated by hand). Loose, light brown SAND (excavated by hand). Brown SAND.				
					(3.00)					
					4.00	Complete at 4.00m				
Remarks Wet from approximately 2.7m deep.							Scale (approx) 1:50	Logged By EW		
							Figure No. M24 1FT.WS1			

Worms Eye Limited PO Box 1157 COLNE, BB9 4HS					Site Ramsden Farm, Roundthorn Road, Middleton, Manchester			Number WS2		
Excavation Method Drive-in Windowless Sampler		Dimensions		Ground Level (mOD)		Client			Job Number M24 1FT	
		Location		Dates 27/02/2026		Project Contractor Worms Eye Ltd.			Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	Instr	
					(0.26) 0.26 (0.74) 1.00 (3.00) 4.00	Dark brown, sandy topsoil with fine roots (excavated by hand). Loose, orange/brown, sand (excavated by hand). Brown SAND. Complete at 4.00m				
Remarks Wet from approximately 3.6m deep.							Scale (approx) 1:50	Logged By EW		
							Figure No. M24 1FT.WS2			

Worms Eye Limited PO Box 1157 COLNE, BB9 4HS					Site Ramsden Farm, Roundthorn Road, Middleton, Manchester			Number WS3			
Excavation Method Drive-in Windowless Sampler		Dimensions		Ground Level (mOD)		Client			Job Number M24 1FT		
		Location		Dates 27/02/2026		Project Contractor Worms Eye Ltd.			Sheet 1/1		
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	Instr		
					(0.30) 0.30	Dark brown, sandy topsoil (excavated by hand).					
					(0.70) 1.00	Orange brown, sand (excavated by hand).					
					(3.00) 4.00	Brown SAND.					
						Complete at 4.00m					
Remarks Wet from approximately 3.6m deep.							Scale (approx) 1:50	Logged By EW			
							Figure No. M24 1FT.WS3				

Worms Eye Limited PO Box 1157 COLNE, BB9 4HS					Site Ramsden Farm, Roundthorn Road, Middleton, Manchester			Number WS4			
Excavation Method Drive-in Windowless Sampler		Dimensions		Ground Level (mOD)		Client			Job Number M24 1FT		
		Location		Dates 27/02/2026		Project Contractor Worms Eye Ltd.			Sheet 1/1		
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	Instr		
					(1.00)	Loose, orange/brown, sand with rare coal fragments (excavated by hand).					
					1.00	Brown SAND.					
					(3.00)						
					4.00	Complete at 4.00m					
Remarks Wet from approximately 2.8m deep.							Scale (approx) 1:50	Logged By EW			
							Figure No. M24 1FT.WS4				

[illegible]

Worms Eye Limited						PO Box 1157 COLNE, BB9 4HS			Site Ramsden Farm, Roundthorn Road, Middleton, Manchester			Trial Pit Number THB	
Excavation Method Trial Pit			Dimensions			Ground Level (mOD)		Client				Job Number M24 1FT	
			Location Southeast corner			Dates 25/02/2026		Project Contractor Worms Eye Ltd.				Sheet 1/1	
Depth (m)	Sample / Tests		Water Depth (m)	Field Records		Level (mOD)	Depth (m) (Thickness)	Description				Legend	Water
							0.05	Orange/brown sand.					
							(0.26)	Dark brown, sandy topsoil with fine roots.					
							0.31	Loose, orange/brown sand.					
							(0.69)						
							1.00	Complete at 1.00m					
Plan							Remarks						
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.	.	.	.	.	.	.	.						
Scale (approx)							Logged By		Figure No.				
1:25							EW		M24 1FT.TH.B				

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Analytical Report Number : 26-010433

Replaces Analytical Report Number: 26-010433, issue no. 1
Single Stage WAC added to samples 845336 , 845338 & 845343 Arsenic, copper, lead, zinc, TPH CWG, PAH (16 USEPA) added to samples 845340 .
Result corrected by laboratory
Total SVOCs corrected on sample 845341 by laboratory.

Project / Site name:	Roundthorn Road Middleton	Samples received on:	02/03/2026
Your job number:	M24 1FT	Samples instructed on/ Analysis started on:	02/03/2026
Your order number:		Analysis completed by:	26/03/2026
Report Issue Number:	2	Report issued on:	26/03/2026
Samples Analysed:	10 soil samples - 5 leachate samples		



Signed:

Charlotte Hall
Customer Service Advisor
For & on behalf of i2 Analytical Ltd.

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

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

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

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

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

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

Analytical Report Number: 26-010433
Project / Site name: Roundthorn Road Middleton

Lab Sample Number	845336	845337	845338	845339	845340
Sample Reference	THA	THB	WS1	WS1	WS2
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	0.25	0.25	0.20	0.90	0.20
Date Sampled	26/02/2026	26/02/2026	26/02/2026	26/02/2026	26/02/2026
Time Taken	1230	1230	1230	1230	1230
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	8.8	13	9.4	14	12
Total mass of sample received	kg	0.1	NONE	1.8	2	2	0.2	1.7

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	-	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	PDO	PDO	PDO	-	PDO
Analysis completed	N/A	N/A	N/A	03/10/2026	03/10/2026	03/10/2026	-	03/10/2026

General Inorganics

pH (L005B)	pH Units	N/A	MCERTS	7	-	7.7	-	-
pH (L099)	pH Units	N/A	MCERTS	7.6	7.2	7.2	8.6	7
Electrical Conductivity	µS/cm	10	MCERTS	-	-	-	38	-
Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	< 1.0
Thiocyanate as SCN	mg/kg	5	NONE	< 5.0	< 5.0	< 5.0	-	< 5.0
Total Sulphate as SO ₄	%	0.005	MCERTS	0.006	0.029	0.015	-	0.032
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	3.1	13	17	-	11
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	1.56	6.29	8.54	-	5.65
Sulphide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	< 1.0
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	0.2	1.3	0.8	-	1.9
Loss on Ignition @ 450°C	%	0.2	MCERTS	0.4	-	1.4	-	-
Acid Neutralisation Capacity	+/- mmol/kg	-9999	NONE	0	-	0.85	-	-
Redox Potential	mV	-800	NONE	-	-	-	268.3	-

Phenols by HPLC

Catechol	mg/kg	0.1	MCERTS	-	-	-	< 0.10	-
Resorcinol	mg/kg	0.1	MCERTS	-	-	-	< 0.10	-
Cresols (o-, m-, p-)	mg/kg	0.3	MCERTS	-	-	-	< 0.30	-
Total Naphthols (sum of 1- and 2- Naphthol)	mg/kg	0.2	MCERTS	-	-	-	< 0.20	-
2-Isopropylphenol	mg/kg	0.1	MCERTS	-	-	-	< 0.10	-
Phenol	mg/kg	0.1	MCERTS	-	-	-	0.2	-
Trimethylphenol (2,3,5-)	mg/kg	0.1	MCERTS	-	-	-	< 0.10	-
Total Xylenols and Ethylphenols	mg/kg	0.4	MCERTS	-	-	-	< 0.40	-

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	< 1.0
Total Phenols (HPLC)	mg/kg	1.4	NONE	-	-	-	< 1.4	-

Analytical Report Number: 26-010433
Project / Site name: Roundthorn Road Middleton

Lab Sample Number	845336	845337	845338	845339	845340
Sample Reference	THA	THB	WS1	WS1	WS2
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	0.25	0.25	0.20	0.90	0.20
Date Sampled	26/02/2026	26/02/2026	26/02/2026	26/02/2026	26/02/2026
Time Taken	1230	1230	1230	1230	1230
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	0.07	< 0.05	< 0.05	0.18
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	0.15	0.1	< 0.05	0.41
Pyrene	mg/kg	0.05	MCERTS	< 0.05	0.16	0.1	< 0.05	0.4
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	0.09	0.07	< 0.05	0.21
Chrysene	mg/kg	0.05	MCERTS	< 0.05	0.11	0.06	< 0.05	0.28
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	0.15	< 0.05	< 0.05	0.23
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	< 0.05	< 0.05	< 0.05	0.13
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	0.11	< 0.05	< 0.05	0.19
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	0.06	< 0.05	< 0.05	0.09
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	0.06	< 0.05	< 0.05	0.11
Coronene	mg/kg	0.05	NONE	< 0.05	-	< 0.05	-	-

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	< 0.80	0.97	< 0.80	< 0.80	2.24
Total WAC-17 PAHs	mg/kg	0.85	NONE	< 0.85	-	< 0.85	-	-

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	2.6	7.5	4	-	6.7
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	-	< 0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	U/S ^{u/s} g	U/S ^{u/s} g	-	U/S ^{u/s} g
Chromium (hexavalent) by IC	mg/kg	1.8	NONE	-	< 1.80	< 1.80	-	< 1.80
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	3.5	7.4	5.8	-	7.4
Copper (aqua regia extractable)	mg/kg	1	MCERTS	5.7	15	7.9	-	16
Lead (aqua regia extractable)	mg/kg	1	MCERTS	2.9	26	7.7	-	28
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	-	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	4.3	7.8	5.8	-	7.4
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	13	34	40	-	38

Analytical Report Number: 26-010433
Project / Site name: Roundthorn Road Middleton

Lab Sample Number	845336	845337	845338	845339	845340
Sample Reference	THA	THB	WS1	WS1	WS2
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	0.25	0.25	0.20	0.90	0.20
Date Sampled	26/02/2026	26/02/2026	26/02/2026	26/02/2026	26/02/2026
Time Taken	1230	1230	1230	1230	1230
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Petroleum Hydrocarbons

TPHCWG - Aliphatic >EC5 - EC6 _{HS_ID_AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	-	< 0.010
TPHCWG - Aliphatic >EC5 - EC10 _{HS_ID_AL}	mg/kg	1	NONE	-	-	-	< 1.0	-
TPHCWG - Aliphatic >EC6 - EC8 _{HS_ID_AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	-	< 0.010
TPHCWG - Aliphatic >EC8 - EC10 _{HS_ID_AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	-	< 0.010
TPHCWG - Aliphatic >EC10 - EC12 _{EH_CU_ID_AL}	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aliphatic >EC10 - EC16 _{EH_CU_ID_AL}	mg/kg	3	NONE	-	-	-	< 3.0	-
TPHCWG - Aliphatic >EC12 - EC16 _{EH_CU_ID_AL}	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPHCWG - Aliphatic >EC16 - EC21 _{EH_CU_ID_AL}	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	-	< 8.0
TPHCWG - Aliphatic >EC16 - EC40 _{EH_CU_ID_AL}	mg/kg	10	NONE	-	-	-	< 10	-
TPHCWG - Aliphatic >EC21 - EC35 _{EH_CU_ID_AL}	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	-	< 8.0
TPHCWG - Aliphatic >EC5 - EC35 _{EH_CU+HS_ID_AL}	mg/kg	10	NONE	< 10	< 10	< 10	-	< 10

TPHCWG - Aromatic >EC5 - EC7 _{HS_ID_AR}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	-	< 0.010
TPHCWG - Aromatic >EC5 - EC10 _{HS_ID_AR}	mg/kg	1	NONE	-	-	-	< 1.0	-
TPHCWG - Aromatic >EC7 - EC8 _{HS_ID_AR}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	-	< 0.010
TPHCWG - Aromatic >EC8 - EC10 _{HS_ID_AR}	mg/kg	0.02	MCERTS	< 0.020	< 0.020	< 0.020	-	< 0.020
TPHCWG - Aromatic >EC10 - EC12 _{EH_CU_ID_AR}	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aromatic >EC10 - EC16 _{EH_CU_ID_AR}	mg/kg	3	NONE	-	-	-	< 3.0	-
TPHCWG - Aromatic >EC12 - EC16 _{EH_CU_ID_AR}	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPHCWG - Aromatic >EC16 - EC21 _{EH_CU_ID_AR}	mg/kg	10	MCERTS	< 10	< 10	< 10	-	< 10
TPHCWG - Aromatic >EC16 - EC40 _{EH_CU_ID_AR}	mg/kg	10	NONE	-	-	-	< 10	-
TPHCWG - Aromatic >EC21 - EC35 _{EH_CU_ID_AR}	mg/kg	10	MCERTS	< 10	< 10	< 10	-	< 10
TPHCWG - Aromatic >EC5 - EC35 _{EH_CU+HS_ID_AR}	mg/kg	10	NONE	< 10	< 10	< 10	-	< 10

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

Chloromethane	µg/kg	5	MCERTS	-	-	-	< 5.0	-
Chloroethane	µg/kg	5	MCERTS	-	-	-	< 5.0	-
Bromomethane	µg/kg	5	MCERTS	-	-	-	< 5.0	-
Vinyl Chloride	µg/kg	5	NONE	-	-	-	< 5.0	-
Trichlorofluoromethane	µg/kg	5	MCERTS	-	-	-	< 5.0	-
1,1-Dichloroethene	µg/kg	5	MCERTS	-	-	-	< 5.0	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	5	MCERTS	-	-	-	< 5.0	-
Trans 1,2-dichloroethylene	µg/kg	5	MCERTS	-	-	-	< 5.0	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1-Dichloroethane	µg/kg	5	MCERTS	-	-	-	< 5.0	-
2,2-Dichloropropane	µg/kg	5	NONE	-	-	-	< 5.0	-
Chloroform	µg/kg	5	MCERTS	-	-	-	< 5.0	-
1,1,1-Trichloroethane	µg/kg	5	MCERTS	-	-	-	< 5.0	-
1,2-Dichloroethane	µg/kg	7	MCERTS	-	-	-	< 7.0	-
1,1-Dichloropropene	µg/kg	5	MCERTS	-	-	-	< 5.0	-
Cis-1,2-dichloroethene	µg/kg	5	MCERTS	-	-	-	< 5.0	-
Benzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbontetrachloride	µg/kg	5	MCERTS	-	-	-	< 5.0	-
1,2-Dichloropropane	µg/kg	6	MCERTS	-	-	-	< 6.0	-
Trichloroethene	µg/kg	10	MCERTS	-	-	-	< 10	-
Dibromomethane	µg/kg	5	MCERTS	-	-	-	< 5.0	-
Bromodichloromethane	µg/kg	5	MCERTS	-	-	-	< 5.0	-
Cis-1,3-dichloropropene	µg/kg	5	MCERTS	-	-	-	< 5.0	-

Analytical Report Number: 26-010433
Project / Site name: Roundthorn Road Middleton

Lab Sample Number				845336	845337	845338	845339	845340
Sample Reference				THA	THB	WS1	WS1	WS2
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				N/A	N/A	N/A	N/A	N/A
Depth (m)				0.25	0.25	0.20	0.90	0.20
Date Sampled				26/02/2026	26/02/2026	26/02/2026	26/02/2026	26/02/2026
Time Taken				1230	1230	1230	1230	1230
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					
Trans-1,3-dichloropropene	µg/kg	10	MCERTS	-	-	-	< 10	-
Toluene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2-Trichloroethane	µg/kg	6	MCERTS	-	-	-	< 6.0	-
1,3-Dichloropropane	µg/kg	5	MCERTS	-	-	-	< 5.0	-
Dibromochloromethane	µg/kg	5	MCERTS	-	-	-	< 5.0	-
Tetrachloroethene	µg/kg	5	MCERTS	-	-	-	< 5.0	-
1,2-Dibromoethane	µg/kg	5	MCERTS	-	-	-	< 5.0	-
Chlorobenzene	µg/kg	5	MCERTS	-	-	-	< 5.0	-
1,1,1,2-Tetrachloroethane	µg/kg	5	MCERTS	-	-	-	< 5.0	-
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
p & m-Xylene	µg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
Styrene	µg/kg	5	MCERTS	-	-	-	< 5.0	-
Bromoform	µg/kg	5	MCERTS	-	-	-	< 5.0	-
o-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Isopropylbenzene	µg/kg	5	MCERTS	-	-	-	< 5.0	-
1,1,2,2-Tetrachloroethane	µg/kg	5	NONE	-	-	-	< 5.0	-
Bromobenzene	µg/kg	5	MCERTS	-	-	-	< 5.0	-
n-Propylbenzene	µg/kg	5	MCERTS	-	-	-	< 5.0	-
2-Chlorotoluene	µg/kg	5	MCERTS	-	-	-	< 5.0	-
4-Chlorotoluene	µg/kg	5	MCERTS	-	-	-	< 5.0	-
1,3,5-Trimethylbenzene	µg/kg	5	MCERTS	-	-	-	< 5.0	-
tert-Butylbenzene	µg/kg	5	MCERTS	-	-	-	< 5.0	-
1,2,4-Trimethylbenzene	µg/kg	5	MCERTS	-	-	-	< 5.0	-
sec-Butylbenzene	µg/kg	5	MCERTS	-	-	-	< 5.0	-
1,3-Dichlorobenzene	µg/kg	5	MCERTS	-	-	-	< 5.0	-
p-Isopropyltoluene	µg/kg	5	MCERTS	-	-	-	< 5.0	-
1,4-Dichlorobenzene	µg/kg	5	MCERTS	-	-	-	< 5.0	-
1,2-Dichlorobenzene	µg/kg	5	MCERTS	-	-	-	< 5.0	-
Butylbenzene	µg/kg	5	MCERTS	-	-	-	< 5.0	-
1,2-Dibromo-3-chloropropane	µg/kg	8	MCERTS	-	-	-	< 8.0	-
1,2,4-Trichlorobenzene	µg/kg	5	MCERTS	-	-	-	< 5.0	-
Hexachlorobutadiene	µg/kg	5	MCERTS	-	-	-	< 5.0	-
1,2,3-Trichlorobenzene	µg/kg	5	MCERTS	-	-	-	< 5.0	-
Sum of the above VOCs	mg/kg	0.25	NONE	-	-	-	< 0.25	-

Analytical Report Number: 26-010433
Project / Site name: Roundthorn Road Middleton

Lab Sample Number	845336	845337	845338	845339	845340
Sample Reference	THA	THB	WS1	WS1	WS2
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	0.25	0.25	0.20	0.90	0.20
Date Sampled	26/02/2026	26/02/2026	26/02/2026	26/02/2026	26/02/2026
Time Taken	1230	1230	1230	1230	1230
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Chloromethane	mg/kg	0.005	MCERTS	-	-	-	< 0.0050	-
Chloroethane	mg/kg	0.005	MCERTS	-	-	-	< 0.0050	-
Bromomethane	mg/kg	0.005	MCERTS	-	-	-	< 0.0050	-
Vinyl Chloride	mg/kg	0.005	NONE	-	-	-	< 0.0050	-
Trichlorofluoromethane	mg/kg	0.005	MCERTS	-	-	-	< 0.0050	-
1,1-Dichloroethene	mg/kg	0.005	MCERTS	-	-	-	< 0.0050	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	mg/kg	0.005	MCERTS	-	-	-	< 0.0050	-
Trans 1,2-dichloroethylene	mg/kg	0.005	MCERTS	-	-	-	< 0.0050	-
1,1-Dichloroethane	mg/kg	0.005	MCERTS	-	-	-	< 0.0050	-
2,2-Dichloropropane	mg/kg	0.005	NONE	-	-	-	< 0.0050	-
Chloroform	mg/kg	0.005	MCERTS	-	-	-	< 0.0050	-
1,1,1-Trichloroethane	mg/kg	0.005	MCERTS	-	-	-	< 0.0050	-
1,2-Dichloroethane	mg/kg	0.007	MCERTS	-	-	-	< 0.0070	-
1,1-Dichloropropene	mg/kg	0.005	MCERTS	-	-	-	< 0.0050	-
Cis-1,2-dichloroethene	mg/kg	0.005	MCERTS	-	-	-	< 0.0050	-
Carbontetrachloride	mg/kg	0.005	MCERTS	-	-	-	< 0.0050	-
1,2-Dichloropropane	mg/kg	0.006	MCERTS	-	-	-	< 0.0060	-
Trichloroethene	mg/kg	0.01	MCERTS	-	-	-	< 0.010	-
Cis-1,3-dichloropropene	mg/kg	0.005	MCERTS	-	-	-	< 0.0050	-
Trans-1,3-dichloropropene	mg/kg	0.01	MCERTS	-	-	-	< 0.010	-
1,1,2-Trichloroethane	mg/kg	0.006	MCERTS	-	-	-	< 0.0060	-
1,3-Dichloropropane	mg/kg	0.005	MCERTS	-	-	-	< 0.0050	-
Dibromochloromethane	mg/kg	0.005	MCERTS	-	-	-	< 0.0050	-
Tetrachloroethene	mg/kg	0.005	MCERTS	-	-	-	< 0.0050	-
1,2-Dibromoethane	mg/kg	0.005	MCERTS	-	-	-	< 0.0050	-
Chlorobenzene	mg/kg	0.005	MCERTS	-	-	-	< 0.0050	-
1,1,1,2-Tetrachloroethane	mg/kg	0.005	MCERTS	-	-	-	< 0.0050	-
Styrene	mg/kg	0.005	MCERTS	-	-	-	< 0.0050	-
Bromoform	mg/kg	0.005	MCERTS	-	-	-	< 0.0050	-
Isopropylbenzene	mg/kg	0.005	MCERTS	-	-	-	< 0.0050	-
1,1,2,2-Tetrachloroethane	mg/kg	0.005	NONE	-	-	-	< 0.0050	-
Bromobenzene	mg/kg	0.005	MCERTS	-	-	-	< 0.0050	-
n-Propylbenzene	mg/kg	0.005	MCERTS	-	-	-	< 0.0050	-
2-Chlorotoluene	mg/kg	0.005	MCERTS	-	-	-	< 0.0050	-
tert-Butylbenzene	mg/kg	0.005	MCERTS	-	-	-	< 0.0050	-
1,2,4-Trimethylbenzene	mg/kg	0.005	MCERTS	-	-	-	< 0.0050	-
sec-Butylbenzene	mg/kg	0.005	MCERTS	-	-	-	< 0.0050	-
1,3-Dichlorobenzene	mg/kg	0.005	MCERTS	-	-	-	< 0.0050	-
p-Isopropyltoluene	mg/kg	0.005	MCERTS	-	-	-	< 0.0050	-
1,4-Dichlorobenzene	mg/kg	0.005	MCERTS	-	-	-	< 0.0050	-
1,2-Dichlorobenzene	mg/kg	0.005	MCERTS	-	-	-	< 0.0050	-
Butylbenzene	mg/kg	0.005	MCERTS	-	-	-	< 0.0050	-
1,2-Dibromo-3-chloropropane	mg/kg	0.008	MCERTS	-	-	-	< 0.0080	-
1,2,4-Trichlorobenzene	mg/kg	0.005	MCERTS	-	-	-	< 0.0050	-
Hexachlorobutadiene	mg/kg	0.005	MCERTS	-	-	-	< 0.0050	-
1,2,3-Trichlorobenzene	mg/kg	0.005	MCERTS	-	-	-	< 0.0050	-

1,3,5-Trichlorobenzene	µg/kg	5	NONE	-	-	-	< 5.0	-
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Analytical Report Number: 26-010433
Project / Site name: Roundthorn Road Middleton

Lab Sample Number				845336	845337	845338	845339	845340
Sample Reference				THA	THB	WS1	WS1	WS2
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				N/A	N/A	N/A	N/A	N/A
Depth (m)				0.25	0.25	0.20	0.90	0.20
Date Sampled				26/02/2026	26/02/2026	26/02/2026	26/02/2026	26/02/2026
Time Taken				1230	1230	1230	1230	1230
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					
Total BTEX	µg/kg	10	MCERTS	< 10	-	< 10	-	-
Total BTEX	µg/kg	10	NONE	-	-	-	< 10	-

Chlorinated Solvents

Total Chlorinated Solvents	µg/kg	70	NONE	-	-	-	< 70	-
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VOCs TICs

VOCs TICs Compound Name	N/A	N/A	NONE	-	-	-	ND	-
VOC % Match	%	N/A	NONE	-	-	-	ND	-

SVOCs

Aniline	mg/kg	0.1	NONE	-	-	-	< 0.1	-
Phenol	mg/kg	0.2	ISO 17025	-	-	-	< 0.2	-
2-Chlorophenol	mg/kg	0.1	MCERTS	-	-	-	< 0.1	-
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	-	-	-	< 0.2	-
1,3-Dichlorobenzene	mg/kg	0.2	NONE	-	-	-	< 0.2	-
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	-	-	-	< 0.1	-
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	-	< 0.2	-
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	-	-	-	< 0.1	-
2-Methylphenol	mg/kg	0.3	MCERTS	-	-	-	< 0.3	-
Hexachloroethane	mg/kg	0.05	ISO 17025	-	-	-	< 0.05	-
Nitrobenzene	mg/kg	0.3	MCERTS	-	-	-	< 0.3	-
4-Methylphenol	mg/kg	0.2	NONE	-	-	-	< 0.2	-
Isophorone	mg/kg	0.2	MCERTS	-	-	-	< 0.2	-
2-Nitrophenol	mg/kg	0.3	NONE	-	-	-	< 0.3	-
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	-	-	-	< 0.3	-
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	-	-	-	< 0.3	-
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	-	-	-	< 0.3	-
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	-	-	-	< 0.3	-
4-Chloroaniline	mg/kg	0.1	NONE	-	-	-	< 0.1	-
Hexachlorobutadiene	mg/kg	0.1	MCERTS	-	-	-	< 0.1	-
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	-	-	-	< 0.1	-
2,4,6-Trichlorophenol	mg/kg	0.1	NONE	-	-	-	< 0.1	-
2,4,5-Trichlorophenol	mg/kg	0.2	NONE	-	-	-	< 0.2	-
2-Methylnaphthalene	mg/kg	0.1	NONE	-	-	-	< 0.1	-
2-Chloronaphthalene	mg/kg	0.1	MCERTS	-	-	-	< 0.1	-
Dimethylphthalate	mg/kg	0.1	MCERTS	-	-	-	< 0.1	-
2,6-Dinitrotoluene	mg/kg	0.1	NONE	-	-	-	< 0.1	-
2,4-Dinitrotoluene	mg/kg	0.2	NONE	-	-	-	< 0.2	-
Dibenzofuran	mg/kg	0.2	MCERTS	-	-	-	< 0.2	-
4-Chlorophenyl phenyl ether	mg/kg	0.3	MCERTS	-	-	-	< 0.3	-
Diethyl phthalate	mg/kg	0.2	MCERTS	-	-	-	< 0.2	-
4-Nitroaniline	mg/kg	0.2	NONE	-	-	-	< 0.2	-
Azobenzene	mg/kg	0.3	NONE	-	-	-	< 0.3	-
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	-	-	-	< 0.2	-
Carbazole	mg/kg	0.3	MCERTS	-	-	-	< 0.3	-
Dibutyl phthalate	mg/kg	0.2	NONE	-	-	-	< 0.2	-
Anthraquinone	mg/kg	0.3	NONE	-	-	-	< 0.3	-
Butyl benzyl phthalate	mg/kg	0.3	NONE	-	-	-	< 0.3	-
SVOC Total	mg/kg	0.3	NONE	-	-	-	< 0.3	-

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Project / Site name: Roundthorn Road Middleton

Lab Sample Number	845336	845337	845338	845339	845340
Sample Reference	THA	THB	WS1	WS1	WS2
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	0.25	0.25	0.20	0.90	0.20
Date Sampled	26/02/2026	26/02/2026	26/02/2026	26/02/2026	26/02/2026
Time Taken	1230	1230	1230	1230	1230
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

SVOCs TICs

SVOCs TICs Compound Name	N/A	N/A	NONE	-	-	-	ND	-
SVOC % Match	%	N/A	NONE	-	-	-	ND	-

PCBs by GC-MS

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

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

Alpha-BHC (Benzene Hexachloride)	µg/kg	10	NONE	< 10	< 10	< 10	-	-
Alachlor	µg/kg	10	NONE	< 10	< 10	< 10	-	-
Bifenthrin	µg/kg	10	NONE	< 10	< 10	< 10	-	-
Cyhalothrin (Lambda)	µg/kg	10	NONE	< 10	< 10	< 10	-	-
Gamma-BHC (Lindane, gamma HCH)	µg/kg	10	NONE	< 10	< 10	< 10	-	-
Omethoate	µg/kg	10	NONE	< 10	< 10	< 10	-	-
1,2,3-Trichlorobenzene	µg/kg	10	NONE	< 10	< 10	< 10	-	-
1,3,5-Trichlorobenzene	µg/kg	10	NONE	< 10	< 10	< 10	-	-
2,6-Dichlorobenzonitrile	µg/kg	10	NONE	< 10	< 10	< 10	-	-
Dimethylvinphos	µg/kg	10	NONE	< 10	< 10	< 10	-	-
Demeton-O	µg/kg	10	NONE	< 10	< 10	< 10	-	-
Demeton-S	µg/kg	10	NONE	< 10	< 10	< 10	-	-
Endrin Aldehyde	µg/kg	10	NONE	< 10	< 10	< 10	-	-
Endrin Ketone	µg/kg	10	NONE	< 10	< 10	< 10	-	-

Analytical Report Number: 26-010433
Project / Site name: Roundthorn Road Middleton

Lab Sample Number				845336	845337	845338	845339	845340
Sample Reference				THA	THB	WS1	WS1	WS2
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				N/A	N/A	N/A	N/A	N/A
Depth (m)				0.25	0.25	0.20	0.90	0.20
Date Sampled				26/02/2026	26/02/2026	26/02/2026	26/02/2026	26/02/2026
Time Taken				1230	1230	1230	1230	1230
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					
Hexachlorobutadiene	µg/kg	10	NONE	< 10	< 10	< 10	-	-
Phosphamidon (Sum)	µg/kg	10	NONE	< 10	< 10	< 10	-	-
1,2,4,5-Tetrachlorobenzene	µg/kg	10	NONE	< 10	< 10	< 10	-	-
Cis-Permethrin	µg/kg	10	NONE	< 10	< 10	< 10	-	-
Endosulfan sulfate	µg/kg	10	NONE	< 10	< 10	< 10	-	-
Etrimfos	µg/kg	10	NONE	< 10	< 10	< 10	-	-
Fenvalerate (Sum)	µg/kg	10	NONE	< 10	< 10	< 10	-	-
Hexachlorobenzene	µg/kg	10	NONE	< 10	< 10	< 10	-	-
Mevinphos, E+Z	µg/kg	10	NONE	< 10	< 10	< 10	-	-
Pentachlorobenzene	µg/kg	10	NONE	< 10	< 10	< 10	-	-
Pirimiphos-ethyl	µg/kg	10	NONE	< 10	< 10	< 10	-	-
Propetamphos	µg/kg	10	NONE	< 10	< 10	< 10	-	-
Tecnazene	µg/kg	10	NONE	< 10	< 10	< 10	-	-
Triadimefon	µg/kg	10	NONE	< 10	< 10	< 10	-	-
Trans-Permethrin	µg/kg	10	NONE	< 10	< 10	< 10	-	-
Aldrin	µg/kg	10	NONE	< 10	< 10	< 10	-	-
Azinphos-methyl	µg/kg	10	NONE	< 10	< 10	< 10	-	-
Beta-BHC	µg/kg	10	NONE	< 10	< 10	< 10	-	-
Cis-Chlordane	µg/kg	10	NONE	< 10	< 10	< 10	-	-
Chlorfenvinphos	µg/kg	10	NONE	< 10	< 10	< 10	-	-
Chlorpyrifos	µg/kg	10	NONE	< 10	< 10	< 10	-	-
Chlorothalonil	µg/kg	10	NONE	< 10	< 10	< 10	-	-
Carbophenothion	µg/kg	10	NONE	< 10	< 10	< 10	-	-
Cyfluthrin (Sum)	µg/kg	10	NONE	< 10	< 10	< 10	-	-
Delta-BHC	µg/kg	10	NONE	< 10	< 10	< 10	-	-
Dieldrin	µg/kg	10	NONE	< 10	< 10	< 10	-	-
Deltamethrin	µg/kg	10	NONE	< 10	< 10	< 10	-	-
Heptachlor Exo-epoxide	µg/kg	10	NONE	< 10	< 10	< 10	-	-
Endrin	µg/kg	10	NONE	< 10	< 10	< 10	-	-
Endosulfan I (alpha isomer)	µg/kg	10	NONE	< 10	< 10	< 10	-	-
Endosulfan II (beta isomer)	µg/kg	10	NONE	< 10	< 10	< 10	-	-
Fenthion	µg/kg	10	NONE	< 10	< 10	< 10	-	-
Isodrin	µg/kg	10	NONE	< 10	< 10	< 10	-	-
Methacrifos	µg/kg	10	NONE	< 10	< 10	< 10	-	-
O,p'-DDD	µg/kg	10	NONE	< 10	< 10	< 10	-	-
O,p'-DDE	µg/kg	10	NONE	< 10	< 10	< 10	-	-
O,p'-DDT	µg/kg	10	NONE	< 10	< 10	< 10	-	-
Parathion	µg/kg	10	NONE	< 10	< 10	< 10	-	-
Parathion-methyl	µg/kg	10	NONE	< 10	< 10	< 10	-	-
Pendimethalin	µg/kg	10	NONE	< 10	< 10	< 10	-	-
Phorate	µg/kg	10	NONE	< 10	< 10	< 10	-	-
Phosalone	µg/kg	10	NONE	< 10	< 10	< 10	-	-
P,p'-DDD	µg/kg	10	NONE	< 10	< 10	< 10	-	-
P,p'-DDE	µg/kg	10	NONE	< 10	< 10	< 10	-	-
P,p'-DDT	µg/kg	10	NONE	< 10	< 10	< 10	-	-
P,p'-Methoxychlor	µg/kg	10	NONE	< 10	< 10	< 10	-	-
Propyzamide	µg/kg	10	NONE	< 10	< 10	< 10	-	-
Triazophos	µg/kg	10	NONE	< 10	< 10	< 10	-	-
Trans-Chlordane	µg/kg	10	NONE	< 10	< 10	< 10	-	-

Analytical Report Number: 26-010433
Project / Site name: Roundthorn Road Middleton

Lab Sample Number				845336	845337	845338	845339	845340
Sample Reference				THA	THB	WS1	WS1	WS2
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				N/A	N/A	N/A	N/A	N/A
Depth (m)				0.25	0.25	0.20	0.90	0.20
Date Sampled				26/02/2026	26/02/2026	26/02/2026	26/02/2026	26/02/2026
Time Taken				1230	1230	1230	1230	1230
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					
Cypermethrin (Sum)	µg/kg	10	NONE	< 10	< 10	< 10	-	-
Dichlorvos	µg/kg	10	NONE	< 10	< 10	< 10	-	-
Dimethoate	µg/kg	10	NONE	< 10	< 10	< 10	-	-
Diazinon	µg/kg	10	NONE	< 10	< 10	< 10	-	-
Ethion	µg/kg	10	NONE	< 10	< 10	< 10	-	-
Fenitrothion	µg/kg	10	NONE	< 10	< 10	< 10	-	-
Malathion	µg/kg	10	NONE	< 10	< 10	< 10	-	-
Pirimiphos-methyl	µg/kg	10	NONE	< 10	< 10	< 10	-	-
Trifluralin	µg/kg	10	NONE	< 10	< 10	< 10	-	-
Azinphos-ethyl	µg/kg	10	NONE	< 10	< 10	< 10	-	-

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

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Project / Site name: Roundthorn Road Middleton

Lab Sample Number	845341	845342	845343	845344	845345
Sample Reference	WS2	WS3	WS3	WS4	WS4
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	0.90	0.20	0.90	0.20	0.90
Date Sampled	26/02/2026	26/02/2026	26/02/2026	26/02/2026	26/02/2026
Time Taken	1230	1230	1230	1230	1230
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	10	8.9	5.3	7.4	7.1
Total mass of sample received	kg	0.1	NONE	0.4	1.5	1.5	2	1.4

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	-	Not-detected	Not-detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	-	PDO	PDO	PDO	PDO
Analysis completed	N/A	N/A	N/A	-	03/10/2026	03/10/2026	03/10/2026	03/10/2026

General Inorganics

pH (L005B)	pH Units	N/A	MCERTS	-	-	7.1	-	-
pH (L099)	pH Units	N/A	MCERTS	8	7.4	8.3	8.1	8
Electrical Conductivity	µS/cm	10	MCERTS	17	-	-	-	-
Total Cyanide	mg/kg	1	MCERTS	-	< 1.0	< 1.0	< 1.0	< 1.0
Thiocyanate as SCN	mg/kg	5	NONE	-	< 5.0	< 5.0	< 5.0	< 5.0
Total Sulphate as SO ₄	%	0.005	MCERTS	-	0.013	< 0.005	< 0.005	0.006
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	-	9.1	< 2.5	< 2.5	7.7
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	-	4.56	< 1.25	< 1.25	3.85
Sulphide	mg/kg	1	MCERTS	-	< 1.0	< 1.0	< 1.0	< 1.0
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	-	0.6	< 0.1	0.2	0.2
Loss on Ignition @ 450°C	%	0.2	MCERTS	-	-	< 0.2	-	-
Acid Neutralisation Capacity	+/- mmol/kg	-9999	NONE	-	-	0.47	-	-
Redox Potential	mV	-800	NONE	290.8	-	-	-	-

Phenols by HPLC

Catechol	mg/kg	0.1	MCERTS	< 0.10	-	-	-	-
Resorcinol	mg/kg	0.1	MCERTS	< 0.10	-	-	-	-
Cresols (o-, m-, p-)	mg/kg	0.3	MCERTS	< 0.30	-	-	-	-
Total Naphthols (sum of 1- and 2- Naphthol)	mg/kg	0.2	MCERTS	< 0.20	-	-	-	-
2-Isopropylphenol	mg/kg	0.1	MCERTS	< 0.10	-	-	-	-
Phenol	mg/kg	0.1	MCERTS	< 0.10	-	-	-	-
Trimethylphenol (2,3,5-)	mg/kg	0.1	MCERTS	< 0.10	-	-	-	-
Total Xylenols and Ethylphenols	mg/kg	0.4	MCERTS	< 0.40	-	-	-	-

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	-	< 1.0	< 1.0	< 1.0	< 1.0
Total Phenols (HPLC)	mg/kg	1.4	NONE	< 1.4	-	-	-	-

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Project / Site name: Roundthorn Road Middleton

Lab Sample Number	845341	845342	845343	845344	845345
Sample Reference	WS2	WS3	WS3	WS4	WS4
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	0.90	0.20	0.90	0.20	0.90
Date Sampled	26/02/2026	26/02/2026	26/02/2026	26/02/2026	26/02/2026
Time Taken	1230	1230	1230	1230	1230
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	0.15	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	0.2	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	1.3	< 0.05	< 0.05	< 0.05	< 0.05
Anthracene	mg/kg	0.05	MCERTS	0.41	< 0.05	< 0.05	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	1.9	< 0.05	< 0.05	< 0.05	< 0.05
Pyrene	mg/kg	0.05	MCERTS	1.4	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.69	< 0.05	< 0.05	< 0.05	< 0.05
Chrysene	mg/kg	0.05	MCERTS	0.6	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	0.63	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	0.31	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.54	< 0.05	< 0.05	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.24	< 0.05	< 0.05	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.17	< 0.05	< 0.05	< 0.05	< 0.05
Coronene	mg/kg	0.05	NONE	-	-	< 0.05	-	-

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	8.42	< 0.80	< 0.80	< 0.80	< 0.80
Total WAC-17 PAHs	mg/kg	0.85	NONE	-	-	< 0.85	-	-

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	-	5.2	3.6	3.1	3.1
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	-	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	-	U/S ^{U/S g}	< 1.8	U/S ^{U/S g}	< 1.8
Chromium (hexavalent) by IC	mg/kg	1.8	NONE	-	< 1.80	-	< 1.80	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	-	6.1	3.9	3.7	3.9
Copper (aqua regia extractable)	mg/kg	1	MCERTS	-	11	7.7	5.8	6.4
Lead (aqua regia extractable)	mg/kg	1	MCERTS	-	12	3.1	3.2	3.3
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	-	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	-	7.1	4.6	3.9	4.4
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	-	< 1.0	< 1.0	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	-	26	19	15	17

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Lab Sample Number	845341	845342	845343	845344	845345
Sample Reference	WS2	WS3	WS3	WS4	WS4
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	0.90	0.20	0.90	0.20	0.90
Date Sampled	26/02/2026	26/02/2026	26/02/2026	26/02/2026	26/02/2026
Time Taken	1230	1230	1230	1230	1230
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Petroleum Hydrocarbons

TPHCWG - Aliphatic >EC5 - EC6 _{HS_ID_AL}	mg/kg	0.01	MCERTS	-	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC5 - EC10 _{HS_ID_AL}	mg/kg	1	NONE	< 1.0	-	-	-	-
TPHCWG - Aliphatic >EC6 - EC8 _{HS_ID_AL}	mg/kg	0.01	MCERTS	-	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC8 - EC10 _{HS_ID_AL}	mg/kg	0.01	MCERTS	-	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC10 - EC12 _{EH_CU_ID_AL}	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aliphatic >EC10 - EC16 _{EH_CU_ID_AL}	mg/kg	3	NONE	< 3.0	-	-	-	-
TPHCWG - Aliphatic >EC12 - EC16 _{EH_CU_ID_AL}	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPHCWG - Aliphatic >EC16 - EC21 _{EH_CU_ID_AL}	mg/kg	8	MCERTS	-	< 8.0	< 8.0	< 8.0	< 8.0
TPHCWG - Aliphatic >EC16 - EC40 _{EH_CU_ID_AL}	mg/kg	10	NONE	< 10	-	-	-	-
TPHCWG - Aliphatic >EC21 - EC35 _{EH_CU_ID_AL}	mg/kg	8	MCERTS	-	< 8.0	< 8.0	< 8.0	< 8.0
TPHCWG - Aliphatic >EC5 - EC35 _{EH_CU+HS_ID_AL}	mg/kg	10	NONE	-	< 10	< 10	< 10	< 10

TPHCWG - Aromatic >EC5 - EC7 _{HS_ID_AR}	mg/kg	0.01	MCERTS	-	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC5 - EC10 _{HS_ID_AR}	mg/kg	1	NONE	< 1.0	-	-	-	-
TPHCWG - Aromatic >EC7 - EC8 _{HS_ID_AR}	mg/kg	0.01	MCERTS	-	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC8 - EC10 _{HS_ID_AR}	mg/kg	0.02	MCERTS	-	< 0.020	< 0.020	< 0.020	< 0.020
TPHCWG - Aromatic >EC10 - EC12 _{EH_CU_ID_AR}	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aromatic >EC10 - EC16 _{EH_CU_ID_AR}	mg/kg	3	NONE	< 3.0	-	-	-	-
TPHCWG - Aromatic >EC12 - EC16 _{EH_CU_ID_AR}	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPHCWG - Aromatic >EC16 - EC21 _{EH_CU_ID_AR}	mg/kg	10	MCERTS	-	< 10	< 10	< 10	< 10
TPHCWG - Aromatic >EC16 - EC40 _{EH_CU_ID_AR}	mg/kg	10	NONE	< 10	-	-	-	-
TPHCWG - Aromatic >EC21 - EC35 _{EH_CU_ID_AR}	mg/kg	10	MCERTS	-	< 10	< 10	< 10	< 10
TPHCWG - Aromatic >EC5 - EC35 _{EH_CU+HS_ID_AR}	mg/kg	10	NONE	-	< 10	< 10	< 10	< 10

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

Chloromethane	µg/kg	5	MCERTS	< 5.0	-	-	-	-
Chloroethane	µg/kg	5	MCERTS	< 5.0	-	-	-	-
Bromomethane	µg/kg	5	MCERTS	< 5.0	-	-	-	-
Vinyl Chloride	µg/kg	5	NONE	< 5.0	-	-	-	-
Trichlorofluoromethane	µg/kg	5	MCERTS	< 5.0	-	-	-	-
1,1-Dichloroethene	µg/kg	5	MCERTS	< 5.0	-	-	-	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	5	MCERTS	< 5.0	-	-	-	-
Trans 1,2-dichloroethylene	µg/kg	5	MCERTS	< 5.0	-	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1-Dichloroethane	µg/kg	5	MCERTS	< 5.0	-	-	-	-
2,2-Dichloropropane	µg/kg	5	NONE	< 5.0	-	-	-	-
Chloroform	µg/kg	5	MCERTS	< 5.0	-	-	-	-
1,1,1-Trichloroethane	µg/kg	5	MCERTS	< 5.0	-	-	-	-
1,2-Dichloroethane	µg/kg	7	MCERTS	< 7.0	-	-	-	-
1,1-Dichloropropene	µg/kg	5	MCERTS	< 5.0	-	-	-	-
Cis-1,2-dichloroethene	µg/kg	5	MCERTS	< 5.0	-	-	-	-
Benzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbontetrachloride	µg/kg	5	MCERTS	< 5.0	-	-	-	-
1,2-Dichloropropane	µg/kg	6	MCERTS	< 6.0	-	-	-	-
Trichloroethene	µg/kg	10	MCERTS	< 10	-	-	-	-
Dibromomethane	µg/kg	5	MCERTS	< 5.0	-	-	-	-
Bromodichloromethane	µg/kg	5	MCERTS	< 5.0	-	-	-	-
Cis-1,3-dichloropropene	µg/kg	5	MCERTS	< 5.0	-	-	-	-

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Project / Site name: Roundthorn Road Middleton

Lab Sample Number				845341	845342	845343	845344	845345
Sample Reference				WS2	WS3	WS3	WS4	WS4
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				N/A	N/A	N/A	N/A	N/A
Depth (m)				0.90	0.20	0.90	0.20	0.90
Date Sampled				26/02/2026	26/02/2026	26/02/2026	26/02/2026	26/02/2026
Time Taken				1230	1230	1230	1230	1230
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					
Trans-1,3-dichloropropene	µg/kg	10	MCERTS	< 10	-	-	-	-
Toluene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2-Trichloroethane	µg/kg	6	MCERTS	< 6.0	-	-	-	-
1,3-Dichloropropane	µg/kg	5	MCERTS	< 5.0	-	-	-	-
Dibromochloromethane	µg/kg	5	MCERTS	< 5.0	-	-	-	-
Tetrachloroethene	µg/kg	5	MCERTS	< 5.0	-	-	-	-
1,2-Dibromoethane	µg/kg	5	MCERTS	< 5.0	-	-	-	-
Chlorobenzene	µg/kg	5	MCERTS	< 5.0	-	-	-	-
1,1,1,2-Tetrachloroethane	µg/kg	5	MCERTS	< 5.0	-	-	-	-
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
p & m-Xylene	µg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
Styrene	µg/kg	5	MCERTS	< 5.0	-	-	-	-
Bromoform	µg/kg	5	MCERTS	< 5.0	-	-	-	-
o-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Isopropylbenzene	µg/kg	5	MCERTS	< 5.0	-	-	-	-
1,1,2,2-Tetrachloroethane	µg/kg	5	NONE	< 5.0	-	-	-	-
Bromobenzene	µg/kg	5	MCERTS	< 5.0	-	-	-	-
n-Propylbenzene	µg/kg	5	MCERTS	< 5.0	-	-	-	-
2-Chlorotoluene	µg/kg	5	MCERTS	< 5.0	-	-	-	-
4-Chlorotoluene	µg/kg	5	MCERTS	< 5.0	-	-	-	-
1,3,5-Trimethylbenzene	µg/kg	5	MCERTS	< 5.0	-	-	-	-
tert-Butylbenzene	µg/kg	5	MCERTS	< 5.0	-	-	-	-
1,2,4-Trimethylbenzene	µg/kg	5	MCERTS	< 5.0	-	-	-	-
sec-Butylbenzene	µg/kg	5	MCERTS	< 5.0	-	-	-	-
1,3-Dichlorobenzene	µg/kg	5	MCERTS	< 5.0	-	-	-	-
p-Isopropyltoluene	µg/kg	5	MCERTS	< 5.0	-	-	-	-
1,4-Dichlorobenzene	µg/kg	5	MCERTS	< 5.0	-	-	-	-
1,2-Dichlorobenzene	µg/kg	5	MCERTS	< 5.0	-	-	-	-
Butylbenzene	µg/kg	5	MCERTS	< 5.0	-	-	-	-
1,2-Dibromo-3-chloropropane	µg/kg	8	MCERTS	< 8.0	-	-	-	-
1,2,4-Trichlorobenzene	µg/kg	5	MCERTS	< 5.0	-	-	-	-
Hexachlorobutadiene	µg/kg	5	MCERTS	< 5.0	-	-	-	-
1,2,3-Trichlorobenzene	µg/kg	5	MCERTS	< 5.0	-	-	-	-
Sum of the above VOCs	mg/kg	0.25	NONE	< 0.25	-	-	-	-

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Project / Site name: Roundthorn Road Middleton

Lab Sample Number	845341	845342	845343	845344	845345
Sample Reference	WS2	WS3	WS3	WS4	WS4
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	0.90	0.20	0.90	0.20	0.90
Date Sampled	26/02/2026	26/02/2026	26/02/2026	26/02/2026	26/02/2026
Time Taken	1230	1230	1230	1230	1230
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Chloromethane	mg/kg	0.005	MCERTS	< 0.0050	-	-	-	-
Chloroethane	mg/kg	0.005	MCERTS	< 0.0050	-	-	-	-
Bromomethane	mg/kg	0.005	MCERTS	< 0.0050	-	-	-	-
Vinyl Chloride	mg/kg	0.005	NONE	< 0.0050	-	-	-	-
Trichlorofluoromethane	mg/kg	0.005	MCERTS	< 0.0050	-	-	-	-
1,1-Dichloroethene	mg/kg	0.005	MCERTS	< 0.0050	-	-	-	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	mg/kg	0.005	MCERTS	< 0.0050	-	-	-	-
Trans 1,2-dichloroethylene	mg/kg	0.005	MCERTS	< 0.0050	-	-	-	-
1,1-Dichloroethane	mg/kg	0.005	MCERTS	< 0.0050	-	-	-	-
2,2-Dichloropropane	mg/kg	0.005	NONE	< 0.0050	-	-	-	-
Chloroform	mg/kg	0.005	MCERTS	< 0.0050	-	-	-	-
1,1,1-Trichloroethane	mg/kg	0.005	MCERTS	< 0.0050	-	-	-	-
1,2-Dichloroethane	mg/kg	0.007	MCERTS	< 0.0070	-	-	-	-
1,1-Dichloropropene	mg/kg	0.005	MCERTS	< 0.0050	-	-	-	-
Cis-1,2-dichloroethene	mg/kg	0.005	MCERTS	< 0.0050	-	-	-	-
Carbontetrachloride	mg/kg	0.005	MCERTS	< 0.0050	-	-	-	-
1,2-Dichloropropane	mg/kg	0.006	MCERTS	< 0.0060	-	-	-	-
Trichloroethene	mg/kg	0.01	MCERTS	< 0.010	-	-	-	-
Cis-1,3-dichloropropene	mg/kg	0.005	MCERTS	< 0.0050	-	-	-	-
Trans-1,3-dichloropropene	mg/kg	0.01	MCERTS	< 0.010	-	-	-	-
1,1,2-Trichloroethane	mg/kg	0.006	MCERTS	< 0.0060	-	-	-	-
1,3-Dichloropropane	mg/kg	0.005	MCERTS	< 0.0050	-	-	-	-
Dibromochloromethane	mg/kg	0.005	MCERTS	< 0.0050	-	-	-	-
Tetrachloroethene	mg/kg	0.005	MCERTS	< 0.0050	-	-	-	-
1,2-Dibromoethane	mg/kg	0.005	MCERTS	< 0.0050	-	-	-	-
Chlorobenzene	mg/kg	0.005	MCERTS	< 0.0050	-	-	-	-
1,1,1,2-Tetrachloroethane	mg/kg	0.005	MCERTS	< 0.0050	-	-	-	-
Styrene	mg/kg	0.005	MCERTS	< 0.0050	-	-	-	-
Bromoform	mg/kg	0.005	MCERTS	< 0.0050	-	-	-	-
Isopropylbenzene	mg/kg	0.005	MCERTS	< 0.0050	-	-	-	-
1,1,2,2-Tetrachloroethane	mg/kg	0.005	NONE	< 0.0050	-	-	-	-
Bromobenzene	mg/kg	0.005	MCERTS	< 0.0050	-	-	-	-
n-Propylbenzene	mg/kg	0.005	MCERTS	< 0.0050	-	-	-	-
2-Chlorotoluene	mg/kg	0.005	MCERTS	< 0.0050	-	-	-	-
tert-Butylbenzene	mg/kg	0.005	MCERTS	< 0.0050	-	-	-	-
1,2,4-Trimethylbenzene	mg/kg	0.005	MCERTS	< 0.0050	-	-	-	-
sec-Butylbenzene	mg/kg	0.005	MCERTS	< 0.0050	-	-	-	-
1,3-Dichlorobenzene	mg/kg	0.005	MCERTS	< 0.0050	-	-	-	-
p-Isopropyltoluene	mg/kg	0.005	MCERTS	< 0.0050	-	-	-	-
1,4-Dichlorobenzene	mg/kg	0.005	MCERTS	< 0.0050	-	-	-	-
1,2-Dichlorobenzene	mg/kg	0.005	MCERTS	< 0.0050	-	-	-	-
Butylbenzene	mg/kg	0.005	MCERTS	< 0.0050	-	-	-	-
1,2-Dibromo-3-chloropropane	mg/kg	0.008	MCERTS	< 0.0080	-	-	-	-
1,2,4-Trichlorobenzene	mg/kg	0.005	MCERTS	< 0.0050	-	-	-	-
Hexachlorobutadiene	mg/kg	0.005	MCERTS	< 0.0050	-	-	-	-
1,2,3-Trichlorobenzene	mg/kg	0.005	MCERTS	< 0.0050	-	-	-	-
1,3,5-Trichlorobenzene	µg/kg	5	NONE	< 5.0	-	-	-	-

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Project / Site name: Roundthorn Road Middleton

Lab Sample Number	845341	845342	845343	845344	845345
Sample Reference	WS2	WS3	WS3	WS4	WS4
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	0.90	0.20	0.90	0.20	0.90
Date Sampled	26/02/2026	26/02/2026	26/02/2026	26/02/2026	26/02/2026
Time Taken	1230	1230	1230	1230	1230
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		
Total BTEX	µg/kg	10	MCERTS	-	-
Total BTEX	µg/kg	10	NONE	< 10	-

Chlorinated Solvents

Total Chlorinated Solvents	µg/kg	70	NONE	< 70	-	-	-	-
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VOCs TICs

VOCs TICs Compound Name	N/A	N/A	NONE	ND	-	-	-	-
VOC % Match	%	N/A	NONE	ND	-	-	-	-

SVOCs

Aniline	mg/kg	0.1	NONE	< 0.1	-	-	-	-
Phenol	mg/kg	0.2	ISO 17025	< 0.2	-	-	-	-
2-Chlorophenol	mg/kg	0.1	MCERTS	< 0.1	-	-	-	-
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	< 0.2	-	-	-	-
1,3-Dichlorobenzene	mg/kg	0.2	NONE	< 0.2	-	-	-	-
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	< 0.1	-	-	-	-
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	-	-	-	-
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	< 0.1	-	-	-	-
2-Methylphenol	mg/kg	0.3	MCERTS	< 0.3	-	-	-	-
Hexachloroethane	mg/kg	0.05	ISO 17025	< 0.05	-	-	-	-
Nitrobenzene	mg/kg	0.3	MCERTS	< 0.3	-	-	-	-
4-Methylphenol	mg/kg	0.2	NONE	< 0.2	-	-	-	-
Isophorone	mg/kg	0.2	MCERTS	< 0.2	-	-	-	-
2-Nitrophenol	mg/kg	0.3	NONE	< 0.3	-	-	-	-
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	< 0.3	-	-	-	-
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	< 0.3	-	-	-	-
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	< 0.3	-	-	-	-
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	< 0.3	-	-	-	-
4-Chloroaniline	mg/kg	0.1	NONE	< 0.1	-	-	-	-
Hexachlorobutadiene	mg/kg	0.1	MCERTS	< 0.1	-	-	-	-
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	< 0.1	-	-	-	-
2,4,6-Trichlorophenol	mg/kg	0.1	NONE	< 0.1	-	-	-	-
2,4,5-Trichlorophenol	mg/kg	0.2	NONE	< 0.2	-	-	-	-
2-Methylnaphthalene	mg/kg	0.1	NONE	< 0.1	-	-	-	-
2-Chloronaphthalene	mg/kg	0.1	MCERTS	< 0.1	-	-	-	-
Dimethylphthalate	mg/kg	0.1	MCERTS	< 0.1	-	-	-	-
2,6-Dinitrotoluene	mg/kg	0.1	NONE	< 0.1	-	-	-	-
2,4-Dinitrotoluene	mg/kg	0.2	NONE	< 0.2	-	-	-	-
Dibenzofuran	mg/kg	0.2	MCERTS	< 0.2	-	-	-	-
4-Chlorophenyl phenyl ether	mg/kg	0.3	MCERTS	< 0.3	-	-	-	-
Diethyl phthalate	mg/kg	0.2	MCERTS	< 0.2	-	-	-	-
4-Nitroaniline	mg/kg	0.2	NONE	< 0.2	-	-	-	-
Azobenzene	mg/kg	0.3	NONE	< 0.3	-	-	-	-
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	< 0.2	-	-	-	-
Carbazole	mg/kg	0.3	MCERTS	< 0.3	-	-	-	-
Dibutyl phthalate	mg/kg	0.2	NONE	< 0.2	-	-	-	-
Anthraquinone	mg/kg	0.3	NONE	< 0.3	-	-	-	-
Butyl benzyl phthalate	mg/kg	0.3	NONE	< 0.3	-	-	-	-
SVOC Total	mg/kg	0.3	NONE	8.42	-	-	-	-

Analytical Report Number: 26-010433
Project / Site name: Roundthorn Road Middleton

Lab Sample Number	845341	845342	845343	845344	845345
Sample Reference	WS2	WS3	WS3	WS4	WS4
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	0.90	0.20	0.90	0.20	0.90
Date Sampled	26/02/2026	26/02/2026	26/02/2026	26/02/2026	26/02/2026
Time Taken	1230	1230	1230	1230	1230
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

SVOCs TICs

SVOCs TICs Compound Name	N/A	N/A	NONE	ND	-	-	-	-
SVOC % Match	%	N/A	NONE	ND	-	-	-	-

PCBs by GC-MS

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

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

Alpha-BHC (Benzene Hexachloride)	µg/kg	10	NONE	-	-	-	-	-
Alachlor	µg/kg	10	NONE	-	-	-	-	-
Bifenthrin	µg/kg	10	NONE	-	-	-	-	-
Cyhalothrin (Lambda)	µg/kg	10	NONE	-	-	-	-	-
Gamma-BHC (Lindane, gamma HCH)	µg/kg	10	NONE	-	-	-	-	-
Omethoate	µg/kg	10	NONE	-	-	-	-	-
1,2,3-Trichlorobenzene	µg/kg	10	NONE	-	-	-	-	-
1,3,5-Trichlorobenzene	µg/kg	10	NONE	-	-	-	-	-
2,6-Dichlorobenzonitrile	µg/kg	10	NONE	-	-	-	-	-
Dimethylvinphos	µg/kg	10	NONE	-	-	-	-	-
Demeton-O	µg/kg	10	NONE	-	-	-	-	-
Demeton-S	µg/kg	10	NONE	-	-	-	-	-
Endrin Aldehyde	µg/kg	10	NONE	-	-	-	-	-
Endrin Ketone	µg/kg	10	NONE	-	-	-	-	-

Analytical Report Number: 26-010433
Project / Site name: Roundthorn Road Middleton

Lab Sample Number				845341	845342	845343	845344	845345
Sample Reference				WS2	WS3	WS3	WS4	WS4
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				N/A	N/A	N/A	N/A	N/A
Depth (m)				0.90	0.20	0.90	0.20	0.90
Date Sampled				26/02/2026	26/02/2026	26/02/2026	26/02/2026	26/02/2026
Time Taken				1230	1230	1230	1230	1230
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					
Hexachlorobutadiene	µg/kg	10	NONE	-	-	-	-	-
Phosphamidon (Sum)	µg/kg	10	NONE	-	-	-	-	-
1,2,4,5-Tetrachlorobenzene	µg/kg	10	NONE	-	-	-	-	-
Cis-Permethrin	µg/kg	10	NONE	-	-	-	-	-
Endosulfan sulfate	µg/kg	10	NONE	-	-	-	-	-
Etrinfos	µg/kg	10	NONE	-	-	-	-	-
Fenvalerate (Sum)	µg/kg	10	NONE	-	-	-	-	-
Hexachlorobenzene	µg/kg	10	NONE	-	-	-	-	-
Mevinphos, E+Z	µg/kg	10	NONE	-	-	-	-	-
Pentachlorobenzene	µg/kg	10	NONE	-	-	-	-	-
Pirimiphos-ethyl	µg/kg	10	NONE	-	-	-	-	-
Propetamphos	µg/kg	10	NONE	-	-	-	-	-
Tecnazene	µg/kg	10	NONE	-	-	-	-	-
Triadimefon	µg/kg	10	NONE	-	-	-	-	-
Trans-Permethrin	µg/kg	10	NONE	-	-	-	-	-
Aldrin	µg/kg	10	NONE	-	-	-	-	-
Azinphos-methyl	µg/kg	10	NONE	-	-	-	-	-
Beta-BHC	µg/kg	10	NONE	-	-	-	-	-
Cis-Chlordane	µg/kg	10	NONE	-	-	-	-	-
Chlorfenvinphos	µg/kg	10	NONE	-	-	-	-	-
Chlorpyrifos	µg/kg	10	NONE	-	-	-	-	-
Chlorothalonil	µg/kg	10	NONE	-	-	-	-	-
Carbophenothion	µg/kg	10	NONE	-	-	-	-	-
Cyfluthrin (Sum)	µg/kg	10	NONE	-	-	-	-	-
Delta-BHC	µg/kg	10	NONE	-	-	-	-	-
Dieldrin	µg/kg	10	NONE	-	-	-	-	-
Deltamethrin	µg/kg	10	NONE	-	-	-	-	-
Heptachlor Exo-epoxide	µg/kg	10	NONE	-	-	-	-	-
Endrin	µg/kg	10	NONE	-	-	-	-	-
Endosulfan I (alpha isomer)	µg/kg	10	NONE	-	-	-	-	-
Endosulfan II (beta isomer)	µg/kg	10	NONE	-	-	-	-	-
Fenthion	µg/kg	10	NONE	-	-	-	-	-
Isodrin	µg/kg	10	NONE	-	-	-	-	-
Methacryfos	µg/kg	10	NONE	-	-	-	-	-
O,p'-DDD	µg/kg	10	NONE	-	-	-	-	-
O,p'-DDE	µg/kg	10	NONE	-	-	-	-	-
O,p'-DDT	µg/kg	10	NONE	-	-	-	-	-
Parathion	µg/kg	10	NONE	-	-	-	-	-
Parathion-methyl	µg/kg	10	NONE	-	-	-	-	-
Pendimethalin	µg/kg	10	NONE	-	-	-	-	-
Phorate	µg/kg	10	NONE	-	-	-	-	-
Phosalone	µg/kg	10	NONE	-	-	-	-	-
P,p'-DDD	µg/kg	10	NONE	-	-	-	-	-
P,p'-DDE	µg/kg	10	NONE	-	-	-	-	-
P,p'-DDT	µg/kg	10	NONE	-	-	-	-	-
P,p'-Methoxychlor	µg/kg	10	NONE	-	-	-	-	-
Propyzamide	µg/kg	10	NONE	-	-	-	-	-
Triazophos	µg/kg	10	NONE	-	-	-	-	-
Trans-Chlordane	µg/kg	10	NONE	-	-	-	-	-

Analytical Report Number: 26-010433
Project / Site name: Roundthorn Road Middleton

Lab Sample Number				845341	845342	845343	845344	845345
Sample Reference				WS2	WS3	WS3	WS4	WS4
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				N/A	N/A	N/A	N/A	N/A
Depth (m)				0.90	0.20	0.90	0.20	0.90
Date Sampled				26/02/2026	26/02/2026	26/02/2026	26/02/2026	26/02/2026
Time Taken				1230	1230	1230	1230	1230
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					
Cypermethrin (Sum)	µg/kg	10	NONE	-	-	-	-	-
Dichlorvos	µg/kg	10	NONE	-	-	-	-	-
Dimethoate	µg/kg	10	NONE	-	-	-	-	-
Diazinon	µg/kg	10	NONE	-	-	-	-	-
Ethion	µg/kg	10	NONE	-	-	-	-	-
Fenitrothion	µg/kg	10	NONE	-	-	-	-	-
Malathion	µg/kg	10	NONE	-	-	-	-	-
Pirimiphos-methyl	µg/kg	10	NONE	-	-	-	-	-
Trifluralin	µg/kg	10	NONE	-	-	-	-	-
Azinphos-ethyl	µg/kg	10	NONE	-	-	-	-	-

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

Analytical Report Number: 26-010433
Project / Site name: Roundthorn Road Middleton

Lab Sample Number	845336	845337	845338	845340	845343
Sample Reference	THA	THB	WS1	WS2	WS3
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	0.25	0.25	0.20	0.20	0.90
Date Sampled	26/02/2026	26/02/2026	26/02/2026	26/02/2026	26/02/2026
Time Taken	1230	1230	1230	1230	1230
Analytical Parameter (Leachate Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Speciated PAHs

Naphthalene	µg/l	0.01	NONE	-	0.17	-	-	-
Acenaphthylene	µg/l	0.01	NONE	-	0.02	-	-	-
Acenaphthene	µg/l	0.01	NONE	-	0.08	-	-	-
Fluorene	µg/l	0.01	NONE	-	0.1	-	-	-
Phenanthrene	µg/l	0.01	NONE	-	0.17	-	-	-
Anthracene	µg/l	0.01	NONE	-	< 0.01	-	-	-
Fluoranthene	µg/l	0.01	NONE	-	< 0.01	-	-	-
Pyrene	µg/l	0.01	NONE	-	< 0.01	-	-	-
Benzo(a)anthracene	µg/l	0.01	NONE	-	< 0.01	-	-	-
Chrysene	µg/l	0.01	NONE	-	< 0.01	-	-	-
Benzo(b)fluoranthene	µg/l	0.01	NONE	-	< 0.01	-	-	-
Benzo(k)fluoranthene	µg/l	0.01	NONE	-	< 0.01	-	-	-
Benzo(a)pyrene	µg/l	0.01	NONE	-	< 0.01	-	-	-
Indeno(1,2,3-cd)pyrene	µg/l	0.01	NONE	-	< 0.01	-	-	-
Dibenz(a,h)anthracene	µg/l	0.01	NONE	-	< 0.01	-	-	-
Benzo(ghi)perylene	µg/l	0.01	NONE	-	< 0.01	-	-	-

Total PAH

Total EPA-16 PAHs	µg/l	0.16	NONE	-	0.54	-	-	-
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Heavy Metals / Metalloids

Arsenic (dissolved)	µg/l	1	ISO 17025	-	< 1.0	-	< 1.0	-
Copper (dissolved)	µg/l	0.7	ISO 17025	-	16	-	6.2	-
Lead (dissolved)	µg/l	1	ISO 17025	-	4.2	-	3.3	-
Zinc (dissolved)	µg/l	0.4	ISO 17025	-	10	-	5.5	-

Petroleum Hydrocarbons

TPH - Aliphatic >EC5 - EC6 _{HS,1D,AL}	µg/l	1	NONE	-	< 1.0	-	< 1.0	-
TPH - Aliphatic >EC6 - EC8 _{HS,1D,AL}	µg/l	1	NONE	-	< 1.0	-	< 1.0	-
TPH - Aliphatic >EC8 - EC10 _{HS,1D,AL}	µg/l	1	NONE	-	< 1.0	-	< 1.0	-
TPH - Aliphatic >EC10 - EC12 _{EH,1D,AL,MS}	µg/l	10	NONE	-	< 10	-	< 10	-
TPH - Aliphatic >EC12 - EC16 _{EH,1D,AL,MS}	µg/l	10	NONE	-	< 10	-	< 10	-
TPH - Aliphatic >EC16 - EC21 _{EH,1D,AL,MS}	µg/l	10	NONE	-	< 10	-	< 10	-
TPH - Aliphatic >EC21 - EC35 _{EH,1D,AL,MS}	µg/l	10	NONE	-	< 10	-	< 10	-
TPH - Aliphatic >EC5 - EC35 _{HS+EH,1D,AL,MS}	µg/l	10	NONE	-	< 10	-	< 10	-

TPH - Aromatic >EC5 - EC7 _{HS,1D,AR}	µg/l	1	NONE	-	< 1.0	-	< 1.0	-
TPH - Aromatic >EC7 - EC8 _{HS,1D,AR}	µg/l	1	NONE	-	< 1.0	-	1.5	-
TPH - Aromatic >EC8 - EC10 _{EH,1D,AR,MS}	µg/l	1	NONE	-	< 1.0	-	17	-
TPH - Aromatic >EC10 - EC12 _{EH,1D,AR,MS}	µg/l	10	NONE	-	< 10	-	< 10	-
TPH - Aromatic >EC12 - EC16 _{EH,1D,AR,MS}	µg/l	10	NONE	-	< 10	-	< 10	-
TPH - Aromatic >EC16 - EC21 _{EH,1D,AR,MS}	µg/l	10	NONE	-	< 10	-	< 10	-
TPH - Aromatic >EC21 - EC35 _{EH,1D,AR,MS}	µg/l	10	NONE	-	< 10	-	< 10	-
TPH - Aromatic >EC6 - EC35 _{HS+EH,1D,AR,MS}	µg/l	10	NONE	-	< 10	-	19	-

Analytical Report Number: 26-010433
Project / Site name: Roundthorn Road Middleton

Lab Sample Number	845336	845337	845338	845340	845343
Sample Reference	THA	THB	WS1	WS2	WS3
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	0.25	0.25	0.20	0.20	0.90
Date Sampled	26/02/2026	26/02/2026	26/02/2026	26/02/2026	26/02/2026
Time Taken	1230	1230	1230	1230	1230
Analytical Parameter (Leachate Analysis)	Units	Test Limit of detection	Test Accreditation Status		

VOCs

MTBE (Methyl Tertiary Butyl Ether)	µg/l	3	NONE	-	< 3.0	-	< 3.0	-
Benzene	µg/l	1	NONE	-	< 1.0	-	< 1.0	-
Toluene	µg/l	1	NONE	-	< 1.0	-	1.2	-
Ethylbenzene	µg/l	1	NONE	-	< 1.0	-	2.1	-
p & m-xylene	µg/l	1	NONE	-	< 1.0	-	12	-
o-xylene	µg/l	1	NONE	-	< 1.0	-	1.5	-

10:1 WAC Leachate

Arsenic	mg/l	0.001	ISO 17025	< 0.00100	-	< 0.00100	-	< 0.00100
Barium	mg/l	0.00005	ISO 17025	0.0029	-	0.0028	-	0.0027
Cadmium	mg/l	0.0001	ISO 17025	< 0.000100	-	< 0.000100	-	< 0.000100
Chromium	mg/l	0.0004	ISO 17025	0.00051	-	0.00041	-	0.00068
Copper	mg/l	0.0007	ISO 17025	< 0.00070	-	< 0.00070	-	< 0.00070
Mercury	mg/l	0.0005	ISO 17025	< 0.000500	-	< 0.000500	-	< 0.000500
Molybdenum	mg/l	0.0004	ISO 17025	< 0.000400	-	0.000843	-	< 0.000400
Nickel	mg/l	0.0003	ISO 17025	< 0.00030	-	0.00049	-	< 0.00030
Lead	mg/l	0.001	ISO 17025	0.0032	-	< 0.0010	-	< 0.0010
Antimony	mg/l	0.0017	ISO 17025	< 0.0017	-	< 0.0017	-	0.0042
Selenium	mg/l	0.004	ISO 17025	< 0.0040	-	< 0.0040	-	< 0.0040
Zinc	mg/l	0.0004	ISO 17025	0.0039	-	0.0055	-	0.0027
Chloride	mg/l	0.15	ISO 17025	0.87	-	0.87	-	0.83
Fluoride	mg/l	0.05	ISO 17025	0.06	-	0.37	-	0.052
Sulphate	mg/l	0.045	ISO 17025	1	-	1.8	-	0.78
Total dissolved solids	mg/l	6	ISO 17025	9.2	-	17	-	9.1
Total monohydric phenols	mg/l	0.01	ISO 17025	< 0.010	-	< 0.010	-	< 0.010
Dissolved organic carbon	mg/l	0.1	NONE	5.7	-	6.91	-	5.04

10:1 WAC Leachate

Arsenic	mg/kg	0.01	NONE	< 0.0100	-	< 0.0100	-	< 0.0100
Barium	mg/kg	0.0005	NONE	0.029	-	0.028	-	0.027
Cadmium	mg/kg	0.001	NONE	< 0.00100	-	< 0.00100	-	< 0.00100
Chromium	mg/kg	0.004	NONE	0.0051	-	0.0041	-	0.0068
Copper	mg/kg	0.007	NONE	< 0.0070	-	< 0.0070	-	< 0.0070
Mercury	mg/kg	0.005	NONE	< 0.00500	-	< 0.00500	-	< 0.00500
Molybdenum	mg/kg	0.004	NONE	< 0.00400	-	0.00843	-	< 0.00400
Nickel	mg/kg	0.003	NONE	< 0.0030	-	0.0049	-	< 0.0030
Lead	mg/kg	0.01	NONE	0.032	-	< 0.010	-	< 0.010
Antimony	mg/kg	0.017	NONE	< 0.017	-	< 0.017	-	0.042
Selenium	mg/kg	0.04	NONE	< 0.040	-	< 0.040	-	< 0.040
Zinc	mg/kg	0.004	NONE	0.039	-	0.055	-	0.027
Chloride	mg/kg	1.5	NONE	8.7	-	8.7	-	8.3
Fluoride	mg/kg	0.5	NONE	0.6	-	3.7	-	0.52
Sulphate	mg/kg	0.45	NONE	10	-	18	-	7.8
Total dissolved solids	mg/kg	60	NONE	92	-	170	-	91
Total monohydric phenols	mg/kg	0.1	NONE	< 0.10	-	< 0.10	-	< 0.10
Dissolved organic carbon	mg/kg	1	NONE	57	-	69.1	-	50.4

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



4041



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Waste Acceptance Criteria Analytical Results							
Report No:	26-010433						
					Client: Worms Eye Limited		
Location	Roundthorn Road Middleton						
Lab Reference (Sample Number)	845336				Landfill Waste Acceptance Criteria		
Sampling Date	26/02/2026				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID	THA						
Depth (m)	0.25						
Solid Waste Analysis							
TOC (%)**	0.2				3%	5%	6%
Loss on Ignition (%) **	0.4				--	--	10%
BTEX (µg/kg) **	< 10				6000	--	--
Sum of PCBs (mg/kg) **	< 0.007				1	--	--
Mineral Oil (mg/kg) EH, 10, CU, AL	< 10				500	--	--
Total PAH (WAC-17) (mg/kg)	< 0.85				100	--	--
pH (units)**	7				--	>6	--
Acid Neutralisation Capacity (mmol / kg)	0				--	To be evaluated	To be evaluated
Eluate Analysis (BS EN 12457 - 2 preparation utilising end over end leaching procedure)	10:1			10:1	Limit values for compliance leaching test		
	mg/l			mg/kg	using BS EN 12457-2 at L/S 10 l/kg (mg/kg)		
Arsenic *	< 0.00100			< 0.0100	0.5	2	25
Barium *	0.0029			0.029	20	100	300
Cadmium *	< 0.000100			< 0.00100	0.04	1	5
Chromium *	0.00051			0.0051	0.5	10	70
Copper *	< 0.00070			< 0.0070	2	50	100
Mercury *	< 0.000500			< 0.00500	0.01	0.2	2
Molybdenum *	< 0.000400			< 0.00400	0.5	10	30
Nickel *	< 0.00030			< 0.0030	0.4	10	40
Lead *	0.0032			0.032	0.5	10	50
Antimony *	< 0.0017			< 0.017	0.06	0.7	5
Selenium *	< 0.0040			< 0.040	0.1	0.5	7
Zinc *	0.0039			0.039	4	50	200
Chloride *	0.87			8.7	800	15000	25000
Fluoride*	0.06			0.6	10	150	500
Sulphate *	1			10	1000	20000	50000
TDS*	9.2			92	4000	60000	100000
Phenol Index (Monohydric Phenols) *	< 0.010			< 0.10	1	-	-
DOC	5.7			57	500	800	1000
Leach Test Information							
Stone Content (%)	< 0.1						
Sample Mass (kg)	1.8						
Dry Matter (%)	91						
Moisture (%)	8.8						
Results are expressed on a dry weight basis, after correction for moisture content where applicable.							
Stated limits are for guidance only and i2 cannot be held responsible for any discrepancies with current legislation							
* = UKAS accredited (liquid eluate analysis only)							
** = MCERTS accredited							
Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes as defined by the Waste (England and Wales) Regulations 2011 (as amended) and EA Guidance WM3. This analysis is only applicable for landfill acceptance criteria (The Environmental Permitting (England and Wales) Regulations) and does not give any indication as to whether a waste may be hazardous or non-hazardous.							



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Waste Acceptance Criteria Analytical Results							
Report No:	26-010433						
					Client: Worms Eye Limited		
Location	Roundthorn Road Middleton						
Lab Reference (Sample Number)	845338				Landfill Waste Acceptance Criteria		
Sampling Date	26/02/2026				Limits		
Sample ID	WS1				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill
Depth (m)	0.20						
Solid Waste Analysis							
TOC (%)**	0.8				3%	5%	6%
Loss on Ignition (%) **	1.4				--	--	10%
BTEX (µg/kg) **	< 10				6000	--	--
Sum of PCBs (mg/kg) **	< 0.007				1	--	--
Mineral Oil (mg/kg) EH, 10, CU, AL	< 10				500	--	--
Total PAH (WAC-17) (mg/kg)	< 0.85				100	--	--
pH (units)**	7.7				--	>6	--
Acid Neutralisation Capacity (mmol / kg)	0.85				--	To be evaluated	To be evaluated
Eluate Analysis (BS EN 12457 - 2 preparation utilising end over end leaching procedure)	10:1			10:1	Limit values for compliance leaching test		
	mg/l			mg/kg	using BS EN 12457-2 at L/S 10 l/kg (mg/kg)		
Arsenic *	< 0.00100			< 0.0100	0.5	2	25
Barium *	0.0028			0.028	20	100	300
Cadmium *	< 0.000100			< 0.00100	0.04	1	5
Chromium *	0.00041			0.0041	0.5	10	70
Copper *	< 0.00070			< 0.0070	2	50	100
Mercury *	< 0.000500			< 0.00500	0.01	0.2	2
Molybdenum *	0.000843			0.00843	0.5	10	30
Nickel *	0.00049			0.0049	0.4	10	40
Lead *	< 0.0010			< 0.010	0.5	10	50
Antimony *	< 0.0017			< 0.017	0.06	0.7	5
Selenium *	< 0.0040			< 0.040	0.1	0.5	7
Zinc *	0.0055			0.055	4	50	200
Chloride *	0.87			8.7	800	15000	25000
Fluoride*	0.37			3.7	10	150	500
Sulphate *	1.8			18	1000	20000	50000
TDS*	17			170	4000	60000	100000
Phenol Index (Monohydric Phenols) *	< 0.010			< 0.10	1	-	-
DOC	6.91			69.1	500	800	1000
Leach Test Information							
Stone Content (%)	< 0.1						
Sample Mass (kg)	2						
Dry Matter (%)	91						
Moisture (%)	9.4						
Results are expressed on a dry weight basis, after correction for moisture content where applicable.							
Stated limits are for guidance only and i2 cannot be held responsible for any discrepancies with current legislation							
* = UKAS accredited (liquid eluate analysis only)							
** = MCERTS accredited							
Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes as defined by the Waste (England and Wales) Regulations 2011 (as amended) and EA Guidance WM3. This analysis is only applicable for landfill acceptance criteria (The Environmental Permitting (England and Wales) Regulations) and does not give any indication as to whether a waste may be hazardous or non-hazardous.							



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Waste Acceptance Criteria Analytical Results							
Report No:	26-010433						
				Client: Worms Eye Limited			
Location	Roundthorn Road Middleton						
Lab Reference (Sample Number)	845343			Landfill Waste Acceptance Criteria			
Sampling Date	26/02/2026			Limits			
Sample ID	WS3			Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill	
Depth (m)	0.90						
Solid Waste Analysis							
TOC (%)**	< 0.1			3%	5%	6%	
Loss on Ignition (%) **	< 0.2			--	--	10%	
BTEX (µg/kg) **	< 10			6000	--	--	
Sum of PCBs (mg/kg) **	< 0.007			1	--	--	
Mineral Oil (mg/kg) EN 10 CU AL	< 10			500	--	--	
Total PAH (WAC-17) (mg/kg)	< 0.85			100	--	--	
pH (units)**	7.1			--	>6	--	
Acid Neutralisation Capacity (mmol / kg)	0.47			--	To be evaluated	To be evaluated	
Eluate Analysis	10:1			10:1	Limit values for compliance leaching test		
(BS EN 12457 - 2 preparation utilising end over end leaching procedure)	mg/l			mg/kg	using BS EN 12457-2 at L/S 10 l/kg (mg/kg)		
Arsenic *	< 0.00100			< 0.0100	0.5	2	25
Barium *	0.0027			0.027	20	100	300
Cadmium *	< 0.000100			< 0.00100	0.04	1	5
Chromium *	0.00068			0.0068	0.5	10	70
Copper *	< 0.00070			< 0.0070	2	50	100
Mercury *	< 0.000500			< 0.00500	0.01	0.2	2
Molybdenum *	< 0.000400			< 0.00400	0.5	10	30
Nickel *	< 0.00030			< 0.0030	0.4	10	40
Lead *	< 0.0010			< 0.010	0.5	10	50
Antimony *	0.0042			0.042	0.06	0.7	5
Selenium *	< 0.0040			< 0.040	0.1	0.5	7
Zinc *	0.0027			0.027	4	50	200
Chloride *	0.83			8.3	800	15000	25000
Fluoride*	0.052			0.52	10	150	500
Sulphate *	0.78			7.8	1000	20000	50000
TDS*	9.1			91	4000	60000	100000
Phenol Index (Monohydric Phenols) *	< 0.010			< 0.10	1	-	-
DOC	5.04			50.4	500	800	1000
Leach Test Information							
Stone Content (%)	< 0.1						
Sample Mass (kg)	1.5						
Dry Matter (%)	95						
Moisture (%)	5.3						
Results are expressed on a dry weight basis, after correction for moisture content where applicable.							
Stated limits are for guidance only and i2 cannot be held responsible for any discrepancies with current legislation							
** = MCERTS accredited							
Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes as defined by the Waste (England and Wales) Regulations 2011 (as amended) and EA Guidance WM3. This analysis is only applicable for landfill acceptance criteria (The Environmental Permitting (England and Wales) Regulations) and does not give any indication as to whether a waste may be hazardous or non-hazardous.							

Analytical Report Number : 26-010433

Project / Site name: Roundthorn Road Middleton

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

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

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
845336	THA	None Supplied	0.25	Brown sand
845337	THB	None Supplied	0.25	Brown sand with gravel
845338	WS1	None Supplied	0.2	Brown sand
845339	WS1	None Supplied	0.9	Brown sand
845340	WS2	None Supplied	0.2	Brown loam and sand with gravel and vegetation
845341	WS2	None Supplied	0.9	Brown sand
845342	WS3	None Supplied	0.2	Brown sand
845343	WS3	None Supplied	0.9	Brown sand
845344	WS4	None Supplied	0.2	Brown sand
845345	WS4	None Supplied	0.9	Brown sand

Analytical Report Number : 26-010433
Project / Site name: Roundthorn Road Middleton

Water matrix abbreviations:
Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)
Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Asbestos identification in Soil	Asbestos Identification with the use of polarised light microscopy in conjunction with dispersion staining techniques	In-house method based on HSG 248, 2021	A001B	D	ISO 17025
pH at 20°C in soil	Determination of pH in soil by addition of water followed by electrometric measurement	In-house method	L005B	W	MCERTS
Total organic carbon (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method)	In-house method	L009B	D	MCERTS
Sulphide in soil	Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode	In-house method	L010-PL	D	MCERTS
Moisture Content (Wet Weight)	Moisture content (% wet weight), determined gravimetrically (up to 30°C)	In-house-procedure based on BS EN 12880:2000	L019B	W	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight	In-house method based on British Standard Methods and MCERTS requirements.	L019B	D	NONE
PCB's By GC-MS in soil	Determination of PCB by extraction with hexane followed by GC-MS	In-house method based on USEPA 8082	L027B	D	MCERTS
Total dissolved solids 10:1 WAC	Determination of total dissolved solids in water by electrometric measurement	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L031B	W	ISO 17025
Fluoride 10:1 WAC	Determination of fluoride in leachate by 1:1ratio with a buffer solution followed by Ion Selective Electrode	In-house method based on Use of Total Ionic Strength Adjustment Buffer for Electrode Determination	L033B	W	ISO 17025
Dissolved organic carbon 10:1 WAC	Determination of dissolved organic carbon in leachate by TOC/DOC NDIR Analyser	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L037B	W	NONE
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil	L038B	D	MCERTS
Total sulphate (as SO4 in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES	In-house method	L038B	D	MCERTS
Sulphate, water soluble, in soil (16hr extraction)	Sulphate, water soluble, in soil (16hr extraction)	In-house method	L038B	D	MCERTS
Metals in leachate by ICP-OES	Determination of metals in leachate by acidification followed by ICP-OES	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil	L039B	W	ISO 17025
One stage WAC 10:1 leachate preparation	One stage batch test at a liquid to solid ratio of 10 L/kg	BS EN 12457-2:2002	L043B	W	ISO 17025
Acid neutralisation capacity of soil	Determination of acid neutralisation capacity by addition of acid or alkali followed by electronic probe	In-house method based on Guidance on Sampling and Testing of Wastes to Meet Landfill Waste Acceptance	L046B	W	NONE

Analytical Report Number : 26-010433

Project / Site name: Roundthorn Road Middleton

Water matrix abbreviations:

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

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Loss on ignition of soil @ 450°C	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace	In-house method	L047-PL	D	MCERTS
Pesticides by GC-MS/MS	Determination of Pesticides in soil by GC MS/MS	In-house method	L055B	W	NONE
Speciated PAHs and/or Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds (including PAH) in soil by extraction in dichloromethane and hexane followed by GC-MS	In-house method based on USEPA 8270	L064B	D	MCERTS
BTEX and/or Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS	In-house method based on USEPA 8260	L073B	W	MCERTS
Total petroleum hydrocarbons with carbon banding by GC-FID in soil	Determination of total petroleum hydrocarbons in soil by GC-FID with carbon banding aliphatic and aromatic	In-house method	L076B	D	MCERTS
Total petroleum hydrocarbons with carbon banding by GC-FID/GC-MS HS in soil (Summed Bands)	Determination of total petroleum hydrocarbons in soil by GC-FID/GC-MS HS with carbon banding aliphatic and aromatic (Summed Bands).	Calculation	L076B/L088-PL	D/W	NONE
Total petroleum hydrocarbons by GC-FID in soil	Determination of total petroleum hydrocarbons in soil by GC-FID	In-house method	L076B	D	NONE
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in NaOH and addition of 1,5 diphenylcarbazide followed by colorimetry	In-house method	L080-PL	W	MCERTS
Monohydric phenols 10:1 WAC	Determination of phenols in leachate by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	ISO 17025
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	MCERTS
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	MCERTS
Chloride 10:1 WAC	Determination of Chloride colorimetrically by discrete analyser	In-house based on MEWAM Method ISBN 0117516260	L082B	W	ISO 17025
Thiocyanate in soil	Determination of thiocyanate in soil by extraction in water followed by acidification followed by addition of ferric nitrate followed by discrete analyser (spectrophotometer)	In-house method	L082B	D	NONE
Total petroleum hydrocarbons with carbon banding by HS-GC/MS in soil	Determination of total petroleum hydrocarbons in soil by HS-GC/MS with carbon banding aliphatic and aromatic	In-house method	L088-PL	W	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement	In-house method	L099-PL	D	MCERTS
Soil Descriptions	Textural classification	In-house method	L019B	W	NONE

Analytical Report Number : 26-010433
Project / Site name: Roundthorn Road Middleton

Water matrix abbreviations:
Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)
Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Metals by ICP-OES in leachate	Determination of metals in leachate by acidification followed by ICP-OES	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil	L039B	W	ISO 17025
Hexavalent chromium in soil by Ion Chromatography	Determination of hexavalent chromium in alkaline soil extract by use of ion chromatography with spectrophotometric detection	In-house method	L130B	W	NONE
Total petroleum hydrocarbons with carbon banding by GC-MS in leachate	Determination of total petroleum hydrocarbons in leachate by GC-MS with carbon banding aliphatic and aromatic	In-house method	L070B	W	NONE
Total petroleum hydrocarbons with carbon banding by GC-MS/GC-MS HS in leachate (Summed Bands)	Determination of total petroleum hydrocarbons in leachate by GC-MS/GC-MS HS with carbon banding aliphatic and aromatic (Summed Bands).	Calculation	L070B/L088-PL	W	NONE
BTEX and/or Volatile organic compounds in leachate	Determination of volatile organic compounds in leachate by headspace GC-MS	In-house method based on USEPA 8260	L073B	W	NONE
Total petroleum hydrocarbons with carbon banding by HS-GC/MS in leachate	Determination of total petroleum hydrocarbons in leachate by HS-GC/MS with carbon banding aliphatic and aromatic	In-house method	L088-PL	W	NONE
Speciated PAHs and/or Semi-volatile organic compounds in leachate	SVOCs and PAHs in leachate	In-house method	L102B		NONE
NRA Leachate 10:1		In-house method based on interim NRA guidance (1994)	L020B	W	NONE
Phenols, speciated, in soil, by HPLC	Determination of speciated phenols by HPLC	In-house method based on Blue Book Method	L030-PL	D	MCERTS
Electrical conductivity of soil	Determination of electrical conductivity in soil by electrometric measurement	In-house method	L031B	W	MCERTS
Tentatively identified compounds (SVOC) in soil	Determination of semi-volatile organic compounds total ion count in soil by extraction with dichloromethane and hexane followed by GC-MS followed by a full library scan	In-house method based on USEPA 8270	L064B	D	NONE
Volatile organic compounds in soil extended	Determination of volatile organic compounds in soil by headspace GC-MS	In-house method based on USEPA 8260	L073B	W	NONE
Tentatively identified compounds (VOC) in soil	Determination of volatile organic compounds total ion count in soil by headspace GC-MS followed by a full library scan	In-house method based on USEPA 8260	L073B	W	NONE

Analytical Report Number : 26-010433
Project / Site name: Roundthorn Road Middleton

Water matrix abbreviations:

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

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Redox Potential of soil	Determination of redox potential in soil by electrometric measurement versus Ag/AgCl electrode	In-house method. The lab test is an indicator of Redox potential. For accuracy, this test should be completed on site due to its short stability.	L084-PL	W	NONE

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

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

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

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

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

Information in Support of Analytical Results

List of HWOL Acronyms and Operators

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

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

The result for sum should be interpreted with caution

*U/S g- Unsuitable for analysis due to high colour intensity.

Analytical Report Number : 26-010433

Project / Site name: Roundthorn Road Middleton

This deviation report indicates the sample and test deviations that apply to the samples submitted for analysis. Please note that the associated result(s) may be unreliable and should be interpreted with care.

Key: a - No sampling date b - Incorrect container/Insufficient material provided c - Holding time d - Headspace e - Temperature

Sample ID	Other ID	Sample Type	Lab Sample Number	Sample Deviation	Test Name	Test Ref	Test Deviation
THA	N/A	L	845336	b	One stage WAC 10:1 leachate preparation	L043B	b
THA	N/A	L	845336	b	WAC Leachate 10:1	L043B	b
WS1	N/A	L	845338	b	One stage WAC 10:1 leachate preparation	L043B	b
WS1	N/A	L	845338	b	WAC Leachate 10:1	L043B	b
WS3	N/A	L	845343	b	One stage WAC 10:1 leachate preparation	L043B	b
WS3	N/A	L	845343	b	WAC Leachate 10:1	L043B	b

PLOTS 5-7, RAMSDEN FARM, ROUNDTORN ROAD, MIDDLETON, M24 1FT

Comparison of Contamination Test Results with Various Thresholds

RESIDENTIAL WITH HOMEGROWN VEGETABLES

Hydrocarbons at 1% SOM

Contaminant	Max Value	Threshold	Pass/ Fail	SSAC	Pass/ Fail	Failed Samples
HEAVY METALS						
- Arsenic	7.5	37*	✓			
- Cadmium	<0.2	11*	✓			
- Chromium III	7.4	910*	✓			
- Chromium VI	<1.8	6*	✓			
- Copper	16	2400*	✓			
- Lead	28	200▲	✓			
- Inorganic Mercury	<0.3	40*	✓			
- Methyl Mercury	<0.3	11*	✓			
- Nickel	7.8	180*	✓			
- Selenium	<1.0	350#	✓			
- Zinc	40	3700*	✓			
OTHER INORGANICS						
- Asbestos	None detected		✓			
- Cyanide (total)	<1.0	20 (D)	✓			
- pH range	7 – 8.6	-	-			
- Sulphate (g/l)	0.00854	0.5 (B)	✓			
- Sulphide	<1.0	250 (E)	✓			
- Thiocyanate	<5.0	-	✓			
-TOC range (%)	<0.1 – 1.9	-	-			

All units mg/kg (parts per million/ppm) unless shown otherwise

Metals & inorganic values derived using 6% SOM (soil organic mater)

Sources

- Soil Guideline Values ▲ - C4SL

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(D) – Dutch (B) - BRE – Building Research Establishment (E) - EA Disposal Threshold 2002

® - CLEA 1.06 Software

SSAC – Site Specific Assessment Criteria (derived with CLEA 1.06 software)

PLOTS 5-7, RAMSDEN FARM, ROUNDTORN ROAD, MIDDLETON, M24 1FT

Comparison of Contamination Test Results with Various Thresholds

RESIDENTIAL WITH HOMEGROWN VEGETABLES

Hydrocarbons at 1% SOM

Contaminant	Max Value	Threshold	Pass/Fail	SSAC	Pass/Fail	Failed Samples
PAHs						
- Acenaphthene	0.15	210*	✓			
- Acenaphthylene	<0.05	170*	✓			
- Anthracene	0.41	2400*	✓			
- Benz(a)anthracene	0.69	7.2*	✓			
- Benzo(a)pyrene (BAP)*	0.54	2.2*	✓			
- Benzo(b)fluoranthene	0.63	2.6*	✓			
- Benzo(ghi)perylene	0.17	320*	✓			
- Benzo(k)fluoranthene	0.31	77*	✓			
- Chrysene	0.6	15*	✓			
- Dibenzo(ah)anthracene (DBA)	<0.05	0.24*	✓			
- Fluoranthene	1.9	280*	✓			
- Fluorene	0.2	170*	✓			
- Indene (123-cd) pyrene	0.24	27*	✓			
- Naphthalene	<0.05	2.3*	✓			
- Phenanthrene	1.3	95*	✓			
- Pyrene	1.4	620*	✓			
OTHER COMPOUNDS						
Phenols	<1.4	280*	✓			
MTBE	<0.005	-	✓			
Pesticides - OCP/OPP	<0.01	2 (D)	✓			

All units mg/kg (parts per million/ppm) unless shown otherwise

Hydrocarbon values derived using 1% SOM

BAP is a marker for genotoxic PAHs

Sources

- Soil Guideline Values ▲ - C4SL

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(D) – Dutch (B) - BRE – Building Research Establishment (E) - EA Disposal Threshold 2002

® - CLEA 1.06 Software

SSAC – Site Specific Assessment Criteria (derived with CLEA 1.06 software)

PLOTS 5-7, RAMSDEN FARM, ROUNDTORN ROAD, MIDDLETON, M24 1FT

Comparison of Contamination Test Results with Various Thresholds

RESIDENTIAL WITH HOMEGROWN VEGETABLES

Hydrocarbons at 1% SOM

Contaminant	Max Value	Threshold	Pass/Fail	SSAC	Pass/Fail	Failed Samples
BTEX COMPOUNDS						
- Benzene	<0.005	0.087*	✓			
- Toluene	<0.005	130*	✓			
- Ethyl-benzene	<0.005	47*	✓			
- Xylene - O	<0.005	60*	✓			
- M/P	<0.008	56*	✓			
TPHs						
Aliphatics						
C ₅ – C ₆	<0.010	42*	✓			
C ₆ – C ₈	<0.010	100*	✓			
C ₈ – C ₁₀	<0.010	27*	✓			
C ₁₀ – C ₁₂	<1.0	130 (48 vap)*	✓			
C ₁₂ – C ₁₆	<2.0	1100 (24 sol)*	✓			
C ₁₆ – C ₃₅	<16	65000 (8.48 sol)*	✓			
Aromatics						
C ₅ – C ₇	<0.010	70*	✓			
C ₇ – C ₈	<0.010	130*	✓			
C ₈ – C ₁₀	<0.020	34*	✓			
C ₁₀ – C ₁₂	<1.0	74*	✓			
C ₁₂ – C ₁₆	<2.0	140*	✓			
C ₁₆ – C ₂₁	<10	260*	✓			
C ₂₁ – C ₃₅	<10	1100*	✓			

All units mg/kg (parts per million/ppm) unless shown otherwise

Hydrocarbon values derived using 1% SOM

Vap – vapour saturation limit Soil – solubility saturation limit

Sources

- Soil Guideline Values ▲ - C4SL

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(D) – Dutch (B) - BRE – Building Research Establishment (E) - EA Disposal Threshold 2002

(H) – Hazardous Waste

® - CLEA 1.06 Software

SSAC – Site Specific Assessment Criteria (derived with CLEA 1.06 software)

RAMSDEN FARM, ROUNDTORN ROAD, MIDDLETON, MANCHESTER, M24 1FT

Leachate Comparison of Contamination Test Results with Thresholds

All units µg/l (parts per billion/ppb) ¹ except pH and PID

Contaminant	Max	DWQ	Pass/ Fail	Comment
<u>INORGANIC</u>			√/x	
<u>Metals</u>				
Arsenic	<1.0	10	✓	
Copper	16	2000	✓	"
Lead	4.2	10	✓	"
Zinc	10	3000	✓	
<u>Other</u>				
Sulphate	1800	250,000	✓	

Contaminant	Max Value	DWQ	Pass/ Fail	Source	Comment
<u>Hydrocarbons</u>					
MTBE	<3.0	20	✓	USEPA	
<u>BTEX</u>					
- Benzene	<1.0	1	✓	WHO	
- Toluene	1.2	700	✓	WHO	
- Ethyl-benzene	2.1	300	✓	WHO	
- Xylene	13.5	500	✓	WHO	
<u>TPHs (see also BTEX)</u>					
<u>Aliphatics</u>					
C ₅ – C ₈	<2.0	15000	✓	WHO	
C ₈ – C ₁₆	<21	300	✓	WHO	
Total Aliphatics	<10	300	✓	WHO (conservative figure)	
<u>Aromatics</u>					
C ₁₀ – C ₁₆	<20	100	✓	WHO	
C ₁₆ – C ₃₅	<20	90	✓	WHO	
Total Aromatics	19	90	✓	WHO (conservative figure)	

DWQ = Drinking Water Quality (UK)

EQS = Environmental Quality Standard (Rivers)

D = Dutch

EAL = Environment Agency Leachate

WHO = World Health Organisation

RAMSDEN FARM, ROUNDTORN ROAD, MIDDLETON, MANCHESTER, M24 1FT

Leachate Comparison of Contamination Test Results with Thresholds

All units ug/l (parts per billion/ppb) unless shown otherwise

Contaminant	Max Value	Combine (if required)	DWQ	Pass/Fail	EQS	Pass/Fail	Comment
<u>PAHs</u>							
- Benzo(a)pyrene (BAP)	<0.01	-	0.01	✓	-	-	
- Naphthalene	0.17	-	-	-	1.0	✓	
- Benzo(b/k)fluoranthene	<0.02	<0.04	0.1	✓	-	-	
- Ideno(123cd)pyrene	<0.01				-	-	
- Benzo(ghi)perylene	<0.01				-	-	

DWQ = Drinking Water Quality (UK)

EQS = Environmental Quality Standard (Rivers)

D = Dutch

EAL = Environment Agency Leachate

WHO = World Health Organisation

Waste Classification Report

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

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



XJQLV-72PZB-M082R

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

Report is invalid if pages are removed.

Job name

Plots 5-7, Ramsden Farm, Roundthorn Road, Middleton, M24 1FT

Description/Comments

Project

Plots 5-7, Ramsden Farm, Roundthorn Road, Middleton, M24 1FT

Site

Plots 5-7, Ramsden Farm, Roundthorn Road, Middleton, M24 1FT

Classified by

Name: **Emma Whitaker**
Date: **12 Mar 2026 14:57 GMT**
Telephone: **01282 414649**
Company: **Worms Eye Ltd**
1st Floor Block C, The Wharf
Manchester Road
Burnley
BB11 1JG

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

HazWasteOnline™ Certification:

Course

Hazardous Waste Classification

Date

Purpose of classification

2 - Material Characterisation

Address of the waste

Plots 5-7, Ramsden Farm, Roundthorn Road, Middleton

Post Code M24 1FT

SIC for the process giving rise to the waste

Description of industry/producer giving rise to the waste

Redevelopment of site.

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

Excavated soil.

Description of the waste

Excavated soil.

Job summary

#	Sample name	Depth [m]	Classification Result	Hazard properties	Page
1	THA - 0.25m	0.25	Non Hazardous		3
2	THB - 0.25m	0.25	Non Hazardous		5
3	WS1 - 0.20m	0.20	Non Hazardous		7
4	WS1 - 0.90m	0.90	Non Hazardous		9
5	WS2 - 0.20m	0.20	Non Hazardous		11
6	WS2 - 0.90m	0.90	Non Hazardous		13
7	WS3 - 0.20m	0.2	Non Hazardous		15
8	WS3 - 0.90m	0.90	Non Hazardous		17
9	WS4 - 0.20m	0.20	Non Hazardous		19
10	WS4 - 0.90m	0.90	Non Hazardous		21

Related documents

#	Name	Description
1	Worms Eye v3	waste stream template used to create this Job

Report

Created by: Emma Whitaker

Created date: 12 Mar 2026 14:57 GMT

Appendices	Page
Appendix A: Classifier defined and non GB MCL determinands	23
Appendix B: Rationale for selection of metal species	24
Appendix C: Version	25

Classification of sample: THA - 0.25m

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

Sample details

Sample name:	LoW Code:
THA - 0.25m	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.25 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
8.8%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 8.8% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }				2.6 mg/kg	1.32	3.433 mg/kg	0.000343 %			
	033-003-00-0	215-481-4	1327-53-3								
2	cadmium { cadmium sulfide }			1	<0.2 mg/kg	1.285	<0.257 mg/kg	<0.00002 %			<LOD
	048-010-00-4	215-147-8	1306-23-6								
3	chromium in Cr(III) compounds { chromium(III) oxide (worst case) }				3.5 mg/kg	1.462	5.115 mg/kg	0.000512 %			
		215-160-9	1308-38-9								
4	chromium in Cr(VI) compounds { chromium(VI) oxide }				<1.8 mg/kg	1.923	<3.462 mg/kg	<0.000346 %			<LOD
	024-001-00-0	215-607-8	1333-82-0								
5	copper { dicopper oxide; copper (I) oxide }				5.7 mg/kg	1.126	6.418 mg/kg	0.000642 %			
	029-002-00-X	215-270-7	1317-39-1								
6	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %			<LOD
	006-007-00-5										
7	lead { lead chromate }			1	2.9 mg/kg	1.56	4.523 mg/kg	0.00029 %			
	082-004-00-2	231-846-0	7758-97-6								
8	mercury { mercury dichloride }				<0.3 mg/kg	1.353	<0.406 mg/kg	<0.0000406 %			<LOD
	080-010-00-X	231-299-8	7487-94-7								
9	nickel { nickel dihydroxide }				4.3 mg/kg	1.579	6.792 mg/kg	0.000679 %			
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]								
10	pH				7.6 pH		7.6 pH	7.6 pH			
11	phenol				<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
	604-001-00-2	203-632-7	108-95-2								
12	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %			<LOD
	034-002-00-8										
13	zinc { zinc oxide }				13 mg/kg	1.245	16.181 mg/kg	0.00162 %			
	030-013-00-7	215-222-5	1314-13-2								
14	benzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-020-00-8	200-753-7	71-43-2								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
15	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
16	ethylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
17	xylene				<0.013 mg/kg		<0.013 mg/kg	<0.0000013 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
18	TPH (C6 to C40) petroleum group				<20 mg/kg		<20 mg/kg	<0.002 %		<LOD
			TPH							
19	acenaphthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9							
20	acenaphthylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-917-1	208-96-8							
21	anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		204-371-1	120-12-7							
22	benzo[a]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
23	benzo[a]pyrene; benzo[def]chrysene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
24	benzo[b]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
25	benzo[k]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
26	benzo[ghi]perylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2							
27	chrysene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
28	dibenz[a,h]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
29	fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-912-4	206-44-0							
30	fluorene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-695-5	86-73-7							
31	indeno[123-cd]pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-893-2	193-39-5							
32	naphthalene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
33	phenanthrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-581-5	85-01-8							
34	pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		204-927-3	129-00-0							
35	asbestos				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5							
Total:								0.00408 %		

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

Classification of sample: THB - 0.25m

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

Sample details

Sample name:	LoW Code:
THB - 0.25m	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.25 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
13%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 13% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }				7.5 mg/kg	1.32	9.902 mg/kg	0.00099 %			
	033-003-00-0	215-481-4	1327-53-3								
2	cadmium { cadmium sulfide }			1	<0.2 mg/kg	1.285	<0.257 mg/kg	<0.00002 %			<LOD
	048-010-00-4	215-147-8	1306-23-6								
3	chromium in Cr(III) compounds { chromium(III) oxide (worst case) }				7.4 mg/kg	1.462	10.816 mg/kg	0.00108 %			
		215-160-9	1308-38-9								
4	chromium in Cr(VI) compounds { chromium(VI) oxide }				<1.8 mg/kg	1.923	<3.462 mg/kg	<0.000346 %			<LOD
	024-001-00-0	215-607-8	1333-82-0								
5	copper { dicopper oxide; copper (I) oxide }				15 mg/kg	1.126	16.888 mg/kg	0.00169 %			
	029-002-00-X	215-270-7	1317-39-1								
6	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %			<LOD
		006-007-00-5									
7	lead { lead chromate }			1	26 mg/kg	1.56	40.555 mg/kg	0.0026 %			
	082-004-00-2	231-846-0	7758-97-6								
8	mercury { mercury dichloride }				<0.3 mg/kg	1.353	<0.406 mg/kg	<0.0000406 %			<LOD
	080-010-00-X	231-299-8	7487-94-7								
9	nickel { nickel dihydroxide }				7.8 mg/kg	1.579	12.32 mg/kg	0.00123 %			
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]								
10	pH				7.2 pH		7.2 pH	7.2 pH			
11	phenol				<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
	604-001-00-2	203-632-7	108-95-2								
12	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %			<LOD
		034-002-00-8									
13	zinc { zinc oxide }				34 mg/kg	1.245	42.32 mg/kg	0.00423 %			
	030-013-00-7	215-222-5	1314-13-2								
14	benzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-020-00-8	200-753-7	71-43-2								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
15	toluene									
	601-021-00-3	203-625-9	108-88-3		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
16	ethylbenzene									
	601-023-00-4	202-849-4	100-41-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
17	xylene									
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.013 mg/kg		<0.013 mg/kg	<0.0000013 %		<LOD
18	TPH (C6 to C40) petroleum group									
			TPH		<20 mg/kg		<20 mg/kg	<0.002 %		<LOD
19	acenaphthene									
		201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
20	acenaphthylene									
		205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
21	anthracene									
		204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
22	benzo[a]anthracene									
	601-033-00-9	200-280-6	56-55-3		0.09 mg/kg		0.09 mg/kg	0.000009 %		
23	benzo[a]pyrene; benzo[def]chrysene									
	601-032-00-3	200-028-5	50-32-8		0.11 mg/kg		0.11 mg/kg	0.000011 %		
24	benzo[b]fluoranthene									
	601-034-00-4	205-911-9	205-99-2		0.15 mg/kg		0.15 mg/kg	0.000015 %		
25	benzo[k]fluoranthene									
	601-036-00-5	205-916-6	207-08-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
26	benzo[ghi]perylene									
		205-883-8	191-24-2		0.06 mg/kg		0.06 mg/kg	0.000006 %		
27	chrysene									
	601-048-00-0	205-923-4	218-01-9		0.11 mg/kg		0.11 mg/kg	0.000011 %		
28	dibenz[a,h]anthracene									
	601-041-00-2	200-181-8	53-70-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
29	fluoranthene									
		205-912-4	206-44-0		0.15 mg/kg		0.15 mg/kg	0.000015 %		
30	fluorene									
		201-695-5	86-73-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
31	indeno[123-cd]pyrene									
		205-893-2	193-39-5		0.06 mg/kg		0.06 mg/kg	0.000006 %		
32	naphthalene									
	601-052-00-2	202-049-5	91-20-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
33	phenanthrene									
		201-581-5	85-01-8		0.07 mg/kg		0.07 mg/kg	0.000007 %		
34	pyrene									
		204-927-3	129-00-0		0.16 mg/kg		0.16 mg/kg	0.000016 %		
35	asbestos									
	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
Total:								0.0119 %		

Key

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

Classification of sample: WS1 - 0.20m

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

Sample details

Sample name:	LoW Code:
WS1 - 0.20m	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.20 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
9.4%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 9.4% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }				4 mg/kg	1.32	5.281 mg/kg	0.000528 %			
	033-003-00-0	215-481-4	1327-53-3								
2	cadmium { cadmium sulfide }			1	<0.2 mg/kg	1.285	<0.257 mg/kg	<0.00002 %			<LOD
	048-010-00-4	215-147-8	1306-23-6								
3	chromium in Cr(III) compounds { chromium(III) oxide (worst case) }				5.8 mg/kg	1.462	8.477 mg/kg	0.000848 %			
		215-160-9	1308-38-9								
4	chromium in Cr(VI) compounds { chromium(VI) oxide }				<1.8 mg/kg	1.923	<3.462 mg/kg	<0.000346 %			<LOD
	024-001-00-0	215-607-8	1333-82-0								
5	copper { dicopper oxide; copper (I) oxide }				7.9 mg/kg	1.126	8.895 mg/kg	0.000889 %			
	029-002-00-X	215-270-7	1317-39-1								
6	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %			<LOD
	006-007-00-5										
7	lead { lead chromate }			1	7.7 mg/kg	1.56	12.011 mg/kg	0.00077 %			
	082-004-00-2	231-846-0	7758-97-6								
8	mercury { mercury dichloride }				<0.3 mg/kg	1.353	<0.406 mg/kg	<0.0000406 %			<LOD
	080-010-00-X	231-299-8	7487-94-7								
9	nickel { nickel dihydroxide }				5.8 mg/kg	1.579	9.161 mg/kg	0.000916 %			
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]								
10	pH				7.2 pH		7.2 pH	7.2 pH			
11	phenol				<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
	604-001-00-2	203-632-7	108-95-2								
12	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %			<LOD
	034-002-00-8										
13	zinc { zinc oxide }				40 mg/kg	1.245	49.789 mg/kg	0.00498 %			
	030-013-00-7	215-222-5	1314-13-2								
14	benzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-020-00-8	200-753-7	71-43-2								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
15	toluene									
	601-021-00-3	203-625-9	108-88-3		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
16	ethylbenzene									
	601-023-00-4	202-849-4	100-41-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
17	xylene									
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.013 mg/kg		<0.013 mg/kg	<0.0000013 %		<LOD
18	TPH (C6 to C40) petroleum group									
			TPH		<20 mg/kg		<20 mg/kg	<0.002 %		<LOD
19	acenaphthene									
		201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
20	acenaphthylene									
		205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
21	anthracene									
		204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
22	benzo[a]anthracene									
	601-033-00-9	200-280-6	56-55-3		0.07 mg/kg		0.07 mg/kg	0.000007 %		
23	benzo[a]pyrene; benzo[def]chrysene									
	601-032-00-3	200-028-5	50-32-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
24	benzo[b]fluoranthene									
	601-034-00-4	205-911-9	205-99-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
25	benzo[k]fluoranthene									
	601-036-00-5	205-916-6	207-08-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
26	benzo[ghi]perylene									
		205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
27	chrysene									
	601-048-00-0	205-923-4	218-01-9		0.06 mg/kg		0.06 mg/kg	0.000006 %		
28	dibenz[a,h]anthracene									
	601-041-00-2	200-181-8	53-70-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
29	fluoranthene									
		205-912-4	206-44-0		0.1 mg/kg		0.1 mg/kg	0.00001 %		
30	fluorene									
		201-695-5	86-73-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
31	indeno[123-cd]pyrene									
		205-893-2	193-39-5		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
32	naphthalene									
	601-052-00-2	202-049-5	91-20-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
33	phenanthrene									
		201-581-5	85-01-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
34	pyrene									
		204-927-3	129-00-0		0.1 mg/kg		0.1 mg/kg	0.00001 %		
35	asbestos									
	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
Total:								0.00896 %		

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

Classification of sample: WS1 - 0.90m

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

Sample details

Sample name:	LoW Code:
WS1 - 0.90m	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.90 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
14%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 14% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	pH				8.6 pH		8.6 pH	8.6 pH		
2	phenol				<1.4 mg/kg		<1.4 mg/kg	<0.00014 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
3	benzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
4	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
5	ethylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
6	xylene				<0.013 mg/kg		<0.013 mg/kg	<0.0000013 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
7	TPH (C6 to C40) petroleum group				<28 mg/kg		<28 mg/kg	<0.0028 %		<LOD
			TPH							
8	acenaphthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9							
9	acenaphthylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-917-1	208-96-8							
10	anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		204-371-1	120-12-7							
11	benzo[a]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
12	benzo[a]pyrene; benzo[def]chrysene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
13	benzo[b]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
14	benzo[k]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
15	benzo[ghi]perylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
16	chrysene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
17	dibenz[a,h]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
18	fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-912-4	206-44-0							
19	fluorene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-695-5	86-73-7							
20	indeno[123-cd]pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-893-2	193-39-5							
21	naphthalene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
22	phenanthrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-581-5	85-01-8							
23	pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		204-927-3	129-00-0							
Total:								0%		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
•	Determinand defined or amended by HazWasteOnline (see Appendix A)
<LOD	Below limit of detection

Classification of sample: WS2 - 0.20m

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

Sample details

Sample name:	LoW Code:
WS2 - 0.20m	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.20 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
12%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 12% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }				6.7 mg/kg	1.32	8.846 mg/kg	0.000885 %			
	033-003-00-0	215-481-4	1327-53-3								
2	cadmium { cadmium sulfide }			1	<0.2 mg/kg	1.285	<0.257 mg/kg	<0.00002 %			<LOD
	048-010-00-4	215-147-8	1306-23-6								
3	chromium in Cr(III) compounds { chromium(III) oxide (worst case) }				7.4 mg/kg	1.462	10.816 mg/kg	0.00108 %			
		215-160-9	1308-38-9								
4	chromium in Cr(VI) compounds { chromium(VI) oxide }				<1.8 mg/kg	1.923	<3.462 mg/kg	<0.000346 %			<LOD
	024-001-00-0	215-607-8	1333-82-0								
5	copper { dicopper oxide; copper (I) oxide }				16 mg/kg	1.126	18.014 mg/kg	0.0018 %			
	029-002-00-X	215-270-7	1317-39-1								
6	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %			<LOD
	006-007-00-5										
7	lead { lead chromate }			1	28 mg/kg	1.56	43.675 mg/kg	0.0028 %			
	082-004-00-2	231-846-0	7758-97-6								
8	mercury { mercury dichloride }				<0.3 mg/kg	1.353	<0.406 mg/kg	<0.0000406 %			<LOD
	080-010-00-X	231-299-8	7487-94-7								
9	nickel { nickel dihydroxide }				7.4 mg/kg	1.579	11.688 mg/kg	0.00117 %			
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]								
10	pH				7 pH		7 pH	7pH			
11	phenol				<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
	604-001-00-2	203-632-7	108-95-2								
12	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %			<LOD
	034-002-00-8										
13	zinc { zinc oxide }				38 mg/kg	1.245	47.299 mg/kg	0.00473 %			
	030-013-00-7	215-222-5	1314-13-2								
14	benzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-020-00-8	200-753-7	71-43-2								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
15	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
16	ethylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
17	xylene				<0.013 mg/kg		<0.013 mg/kg	<0.0000013 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
18	TPH (C6 to C40) petroleum group				<20 mg/kg		<20 mg/kg	<0.002 %		<LOD
			TPH							
19	acenaphthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9							
20	acenaphthylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-917-1	208-96-8							
21	anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		204-371-1	120-12-7							
22	benzo[a]anthracene				0.21 mg/kg		0.21 mg/kg	0.000021 %		
	601-033-00-9	200-280-6	56-55-3							
23	benzo[a]pyrene; benzo[def]chrysene				0.19 mg/kg		0.19 mg/kg	0.000019 %		
	601-032-00-3	200-028-5	50-32-8							
24	benzo[b]fluoranthene				0.23 mg/kg		0.23 mg/kg	0.000023 %		
	601-034-00-4	205-911-9	205-99-2							
25	benzo[k]fluoranthene				0.13 mg/kg		0.13 mg/kg	0.000013 %		
	601-036-00-5	205-916-6	207-08-9							
26	benzo[ghi]perylene				0.11 mg/kg		0.11 mg/kg	0.000011 %		
		205-883-8	191-24-2							
27	chrysene				0.28 mg/kg		0.28 mg/kg	0.000028 %		
	601-048-00-0	205-923-4	218-01-9							
28	dibenz[a,h]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
29	fluoranthene				0.41 mg/kg		0.41 mg/kg	0.000041 %		
		205-912-4	206-44-0							
30	fluorene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-695-5	86-73-7							
31	indeno[123-cd]pyrene				0.09 mg/kg		0.09 mg/kg	0.000009 %		
		205-893-2	193-39-5							
32	naphthalene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
33	phenanthrene				0.18 mg/kg		0.18 mg/kg	0.000018 %		
		201-581-5	85-01-8							
34	pyrene				0.4 mg/kg		0.4 mg/kg	0.00004 %		
		204-927-3	129-00-0							
35	asbestos				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5							
Total:								0.0127 %		

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

Classification of sample: WS2 - 0.90m

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

Sample details

Sample name:	LoW Code:
WS2 - 0.90m	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.90 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
10%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 10% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	pH				8 pH		8 pH	8pH		
2	phenol				<1.4 mg/kg		<1.4 mg/kg	<0.00014 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
3	benzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
4	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
5	ethylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
6	xylene				<0.013 mg/kg		<0.013 mg/kg	<0.0000013 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
7	TPH (C6 to C40) petroleum group				<28 mg/kg		<28 mg/kg	<0.0028 %		<LOD
			TPH							
8	acenaphthene				0.15 mg/kg		0.15 mg/kg	0.000015 %		
		201-469-6	83-32-9							
9	acenaphthylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-917-1	208-96-8							
10	anthracene				0.41 mg/kg		0.41 mg/kg	0.000041 %		
		204-371-1	120-12-7							
11	benzo[a]anthracene				0.69 mg/kg		0.69 mg/kg	0.000069 %		
	601-033-00-9	200-280-6	56-55-3							
12	benzo[a]pyrene; benzo[def]chrysene				0.54 mg/kg		0.54 mg/kg	0.000054 %		
	601-032-00-3	200-028-5	50-32-8							
13	benzo[b]fluoranthene				0.63 mg/kg		0.63 mg/kg	0.000063 %		
	601-034-00-4	205-911-9	205-99-2							
14	benzo[k]fluoranthene				0.31 mg/kg		0.31 mg/kg	0.000031 %		
	601-036-00-5	205-916-6	207-08-9							
15	benzo[ghi]perylene				0.17 mg/kg		0.17 mg/kg	0.000017 %		
		205-883-8	191-24-2							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
16	chrysene				0.6 mg/kg		0.6 mg/kg	0.00006 %		
	601-048-00-0	205-923-4	218-01-9							
17	dibenz[a,h]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
18	fluoranthene				1.9 mg/kg		1.9 mg/kg	0.00019 %		
		205-912-4	206-44-0							
19	fluorene				0.2 mg/kg		0.2 mg/kg	0.00002 %		
		201-695-5	86-73-7							
20	indeno[123-cd]pyrene				0.24 mg/kg		0.24 mg/kg	0.000024 %		
		205-893-2	193-39-5							
21	naphthalene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
22	phenanthrene				1.3 mg/kg		1.3 mg/kg	0.00013 %		
		201-581-5	85-01-8							
23	pyrene				1.4 mg/kg		1.4 mg/kg	0.00014 %		
		204-927-3	129-00-0							
Total:								0.00085 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
•	Determinand defined or amended by HazWasteOnline (see Appendix A)
<LOD	Below limit of detection

Classification of sample: WS3 - 0.20m

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

Sample details

Sample name:	LoW Code:
WS3 - 0.20m	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.2 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
8.9%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 8.9% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }				5.2 mg/kg	1.32	6.866 mg/kg	0.000687 %			
	033-003-00-0	215-481-4	1327-53-3								
2	cadmium { cadmium sulfide }			1	<0.2 mg/kg	1.285	<0.257 mg/kg	<0.00002 %			<LOD
	048-010-00-4	215-147-8	1306-23-6								
3	chromium in Cr(III) compounds { chromium(III) oxide (worst case) }				6.1 mg/kg	1.462	8.915 mg/kg	0.000892 %			
		215-160-9	1308-38-9								
4	chromium in Cr(VI) compounds { chromium(VI) oxide }				<1.8 mg/kg	1.923	<3.462 mg/kg	<0.000346 %			<LOD
	024-001-00-0	215-607-8	1333-82-0								
5	copper { dicopper oxide; copper (I) oxide }				11 mg/kg	1.126	12.385 mg/kg	0.00124 %			
	029-002-00-X	215-270-7	1317-39-1								
6	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %			<LOD
		006-007-00-5									
7	lead { lead chromate }			1	12 mg/kg	1.56	18.718 mg/kg	0.0012 %			
	082-004-00-2	231-846-0	7758-97-6								
8	mercury { mercury dichloride }				<0.3 mg/kg	1.353	<0.406 mg/kg	<0.0000406 %			<LOD
	080-010-00-X	231-299-8	7487-94-7								
9	nickel { nickel dihydroxide }				7.1 mg/kg	1.579	11.214 mg/kg	0.00112 %			
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]								
10	pH				7.4 pH		7.4 pH	7.4 pH			
			PH								
11	phenol				<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
	604-001-00-2	203-632-7	108-95-2								
12	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %			<LOD
		034-002-00-8									
13	zinc { zinc oxide }				26 mg/kg	1.245	32.363 mg/kg	0.00324 %			
	030-013-00-7	215-222-5	1314-13-2								
14	benzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-020-00-8	200-753-7	71-43-2								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
15	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
16	ethylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
17	xylene				<0.013 mg/kg		<0.013 mg/kg	<0.0000013 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
18	TPH (C6 to C40) petroleum group				<20 mg/kg		<20 mg/kg	<0.002 %		<LOD
			TPH							
19	acenaphthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9							
20	acenaphthylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-917-1	208-96-8							
21	anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		204-371-1	120-12-7							
22	benzo[a]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
23	benzo[a]pyrene; benzo[def]chrysene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
24	benzo[b]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
25	benzo[k]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
26	benzo[ghi]perylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2							
27	chrysene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
28	dibenz[a,h]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
29	fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-912-4	206-44-0							
30	fluorene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-695-5	86-73-7							
31	indeno[123-cd]pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-893-2	193-39-5							
32	naphthalene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
33	phenanthrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-581-5	85-01-8							
34	pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		204-927-3	129-00-0							
35	asbestos				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5							
Total:								0.00837 %		

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

Classification of sample: WS3 - 0.90m

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

Sample details

Sample name:	LoW Code:
WS3 - 0.90m	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.90 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
5.3%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 5.3% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }				3.6 mg/kg	1.32	4.753 mg/kg	0.000475 %			
	033-003-00-0	215-481-4	1327-53-3								
2	cadmium { cadmium sulfide }			1	<0.2 mg/kg	1.285	<0.257 mg/kg	<0.00002 %			<LOD
	048-010-00-4	215-147-8	1306-23-6								
3	chromium in Cr(III) compounds { chromium(III) oxide (worst case) }				3.9 mg/kg	1.462	5.7 mg/kg	0.00057 %			
		215-160-9	1308-38-9								
4	chromium in Cr(VI) compounds { chromium(VI) oxide }				<1.8 mg/kg	1.923	<3.462 mg/kg	<0.000346 %			<LOD
	024-001-00-0	215-607-8	1333-82-0								
5	copper { dicopper oxide; copper (I) oxide }				7.7 mg/kg	1.126	8.669 mg/kg	0.000867 %			
	029-002-00-X	215-270-7	1317-39-1								
6	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %			<LOD
	006-007-00-5										
7	lead { lead chromate }			1	3.1 mg/kg	1.56	4.835 mg/kg	0.00031 %			
	082-004-00-2	231-846-0	7758-97-6								
8	mercury { mercury dichloride }				<0.3 mg/kg	1.353	<0.406 mg/kg	<0.0000406 %			<LOD
	080-010-00-X	231-299-8	7487-94-7								
9	nickel { nickel dihydroxide }				4.6 mg/kg	1.579	7.266 mg/kg	0.000727 %			
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]								
10	pH				8.3 pH		8.3 pH	8.3 pH			
11	phenol				<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
	604-001-00-2	203-632-7	108-95-2								
12	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %			<LOD
	034-002-00-8										
13	zinc { zinc oxide }				19 mg/kg	1.245	23.65 mg/kg	0.00236 %			
	030-013-00-7	215-222-5	1314-13-2								
14	benzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-020-00-8	200-753-7	71-43-2								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
15	toluene									
	601-021-00-3	203-625-9	108-88-3		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
16	ethylbenzene									
	601-023-00-4	202-849-4	100-41-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
17	xylene									
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.013 mg/kg		<0.013 mg/kg	<0.0000013 %		<LOD
18	TPH (C6 to C40) petroleum group									
			TPH		<20 mg/kg		<20 mg/kg	<0.002 %		<LOD
19	acenaphthene									
		201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
20	acenaphthylene									
		205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
21	anthracene									
		204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
22	benzo[a]anthracene									
	601-033-00-9	200-280-6	56-55-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
23	benzo[a]pyrene; benzo[def]chrysene									
	601-032-00-3	200-028-5	50-32-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
24	benzo[b]fluoranthene									
	601-034-00-4	205-911-9	205-99-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
25	benzo[k]fluoranthene									
	601-036-00-5	205-916-6	207-08-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
26	benzo[ghi]perylene									
		205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
27	chrysene									
	601-048-00-0	205-923-4	218-01-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
28	dibenz[a,h]anthracene									
	601-041-00-2	200-181-8	53-70-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
29	fluoranthene									
		205-912-4	206-44-0		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
30	fluorene									
		201-695-5	86-73-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
31	indeno[123-cd]pyrene									
		205-893-2	193-39-5		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
32	naphthalene									
	601-052-00-2	202-049-5	91-20-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
33	phenanthrene									
		201-581-5	85-01-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
34	pyrene									
		204-927-3	129-00-0		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
35	asbestos									
	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
Total:								0.00531 %		

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

Classification of sample: WS4 - 0.20m

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

Sample details

Sample name:	LoW Code:
WS4 - 0.20m	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.20 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
7.4%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 7.4% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }				3.1 mg/kg	1.32	4.093 mg/kg	0.000409 %			
	033-003-00-0	215-481-4	1327-53-3								
2	cadmium { cadmium sulfide }			1	<0.2 mg/kg	1.285	<0.257 mg/kg	<0.00002 %			<LOD
	048-010-00-4	215-147-8	1306-23-6								
3	chromium in Cr(III) compounds { chromium(III) oxide (worst case) }				3.7 mg/kg	1.462	5.408 mg/kg	0.000541 %			
		215-160-9	1308-38-9								
4	chromium in Cr(VI) compounds { chromium(VI) oxide }				<1.8 mg/kg	1.923	<3.462 mg/kg	<0.000346 %			<LOD
	024-001-00-0	215-607-8	1333-82-0								
5	copper { dicopper oxide; copper (I) oxide }				5.8 mg/kg	1.126	6.53 mg/kg	0.000653 %			
	029-002-00-X	215-270-7	1317-39-1								
6	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %			<LOD
		006-007-00-5									
7	lead { lead chromate }			1	3.2 mg/kg	1.56	4.991 mg/kg	0.00032 %			
	082-004-00-2	231-846-0	7758-97-6								
8	mercury { mercury dichloride }				<0.3 mg/kg	1.353	<0.406 mg/kg	<0.0000406 %			<LOD
	080-010-00-X	231-299-8	7487-94-7								
9	nickel { nickel dihydroxide }				3.9 mg/kg	1.579	6.16 mg/kg	0.000616 %			
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]								
10	pH				8.1 pH		8.1 pH	8.1 pH			
			PH								
11	phenol				<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
	604-001-00-2	203-632-7	108-95-2								
12	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %			<LOD
		034-002-00-8									
13	zinc { zinc oxide }				15 mg/kg	1.245	18.671 mg/kg	0.00187 %			
	030-013-00-7	215-222-5	1314-13-2								
14	benzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-020-00-8	200-753-7	71-43-2								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
15	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
16	ethylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
17	xylene				<0.013 mg/kg		<0.013 mg/kg	<0.0000013 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
18	TPH (C6 to C40) petroleum group				<20 mg/kg		<20 mg/kg	<0.002 %		<LOD
			TPH							
19	acenaphthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9							
20	acenaphthylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-917-1	208-96-8							
21	anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		204-371-1	120-12-7							
22	benzo[a]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
23	benzo[a]pyrene; benzo[def]chrysene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
24	benzo[b]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
25	benzo[k]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
26	benzo[ghi]perylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2							
27	chrysene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
28	dibenz[a,h]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
29	fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-912-4	206-44-0							
30	fluorene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-695-5	86-73-7							
31	indeno[123-cd]pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-893-2	193-39-5							
32	naphthalene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
33	phenanthrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-581-5	85-01-8							
34	pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		204-927-3	129-00-0							
35	asbestos				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5							
Total:								0.00441 %		

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

Classification of sample: WS4 - 0.90m

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

Sample details

Sample name:	LoW Code:
WS4 - 0.90m	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.90 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
7.1%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 7.1% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }				3.1 mg/kg	1.32	4.093 mg/kg	0.000409 %			
	033-003-00-0	215-481-4	1327-53-3								
2	cadmium { cadmium sulfide }			1	<0.2 mg/kg	1.285	<0.257 mg/kg	<0.00002 %			<LOD
	048-010-00-4	215-147-8	1306-23-6								
3	chromium in Cr(III) compounds { chromium(III) oxide (worst case) }				3.9 mg/kg	1.462	5.7 mg/kg	0.00057 %			
		215-160-9	1308-38-9								
4	chromium in Cr(VI) compounds { chromium(VI) oxide }				<1.8 mg/kg	1.923	<3.462 mg/kg	<0.000346 %			<LOD
	024-001-00-0	215-607-8	1333-82-0								
5	copper { dicopper oxide; copper (I) oxide }				6.4 mg/kg	1.126	7.206 mg/kg	0.000721 %			
	029-002-00-X	215-270-7	1317-39-1								
6	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %			<LOD
		006-007-00-5									
7	lead { lead chromate }			1	3.3 mg/kg	1.56	5.147 mg/kg	0.00033 %			
	082-004-00-2	231-846-0	7758-97-6								
8	mercury { mercury dichloride }				<0.3 mg/kg	1.353	<0.406 mg/kg	<0.0000406 %			<LOD
	080-010-00-X	231-299-8	7487-94-7								
9	nickel { nickel dihydroxide }				4.4 mg/kg	1.579	6.95 mg/kg	0.000695 %			
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]								
10	pH				8 pH		8 pH	8pH			
11	phenol				<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
	604-001-00-2	203-632-7	108-95-2								
12	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %			<LOD
		034-002-00-8									
13	zinc { zinc oxide }				17 mg/kg	1.245	21.16 mg/kg	0.00212 %			
	030-013-00-7	215-222-5	1314-13-2								
14	benzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-020-00-8	200-753-7	71-43-2								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
15	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
16	ethylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
17	xylene				<0.013 mg/kg		<0.013 mg/kg	<0.0000013 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
18	TPH (C6 to C40) petroleum group				<20 mg/kg		<20 mg/kg	<0.002 %		<LOD
			TPH							
19	acenaphthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9							
20	acenaphthylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-917-1	208-96-8							
21	anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		204-371-1	120-12-7							
22	benzo[a]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
23	benzo[a]pyrene; benzo[def]chrysene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
24	benzo[b]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
25	benzo[k]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
26	benzo[ghi]perylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2							
27	chrysene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
28	dibenz[a,h]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
29	fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-912-4	206-44-0							
30	fluorene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-695-5	86-73-7							
31	indeno[123-cd]pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-893-2	193-39-5							
32	naphthalene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
33	phenanthrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-581-5	85-01-8							
34	pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		204-927-3	129-00-0							
35	asbestos				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5							
Total:								0.00484 %		

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

Appendix A: Classifier defined and non GB MCL determinands

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

Description/Comments: Data from C&L Inventory Database

Data source: <https://echa.europa.eu/information-on-chemicals/cl-inventory-database/-/discli/details/33806>

Data source date: 17 Jul 2015

Hazard Statements: Acute Tox. 4; H332 , Acute Tox. 4; H302 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315 , Resp. Sens. 1; H334 , Skin Sens. 1; H317 , Repr. 1B; H360FD , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

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

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

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

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

Reason for additional Hazards Statement(s):

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

• **pH** (CAS Number: PH)

Description/Comments: Appendix C4

Data source: WM3 1st Edition 2015

Data source date: 25 May 2015

Hazard Statements: None.

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

GB MCL index number: 601-023-00-4

Description/Comments:

Additional Hazard Statement(s): Carc. 2; H351

Reason for additional Hazards Statement(s):

20 Nov 2021 - Carc. 2; H351 hazard statement sourced from:: IARC Group 2B (77) 2000

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

Description/Comments: Unknown Oil

Hazard statements taken from WM3 1st Edition 2015

Data source: WM3 1st Edition 2015

Data source date: 25 May 2015

Hazard Statements: Flam. Liq. 3; H226 , Asp. Tox. 1; H304 , STOT RE 2; H373 , Muta. 1B; H340 , Carc. 1B; H350 , Repr. 2; H361d , Aquatic Chronic 2; H411

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

Description/Comments: Data from C&L Inventory Database

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

Data source date: 17 Jul 2015

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

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

Description/Comments: Data from C&L Inventory Database

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

Data source date: 17 Jul 2015

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

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

Description/Comments: Data from C&L Inventory Database

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

Data source date: 17 Jul 2015

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

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

Description/Comments: Data from C&L Inventory Database; SDS Sigma Aldrich 28/02/2015

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

Data source date: 23 Jul 2015

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

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

Description/Comments: Data from C&L Inventory Database
Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 21 Aug 2015
Hazard Statements: Acute Tox. 4; H302 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

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

Description/Comments: Data from C&L Inventory Database
Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 06 Aug 2015
Hazard Statements: Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

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

Description/Comments: Data from C&L Inventory Database
Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 06 Aug 2015
Hazard Statements: Carc. 2; H351

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

Description/Comments: Data from C&L Inventory Database
Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 06 Aug 2015
Hazard Statements: Acute Tox. 4; H302 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Carc. 2; H351 , Skin Sens. 1; H317 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410 , Skin Irrit. 2; H315

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

Description/Comments: Data from C&L Inventory Database; SDS Sigma Aldrich 2014
Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 21 Aug 2015
Hazard Statements: Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

Appendix B: Rationale for selection of metal species

arsenic {arsenic trioxide}

Worst case species based on hazard statements

cadmium {cadmium sulfide}

Worst case species based on hazard statements

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

Worst case species based on hazard statements

chromium in Cr(VI) compounds {chromium(VI) oxide}

Worst case species based on hazard statements

copper {dicopper oxide; copper (I) oxide}

Most likely common species

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

Worst case species

lead {lead chromate}

Worst case species based on hazard statements

mercury {mercury dichloride}

Worst case species based on hazard statements

nickel {nickel dihydroxide}

Worst case species based on hazard statements

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

Worst case species based on hazard statements

zinc {zinc oxide}

Suspected

Appendix C: Version

HazWasteOnline Classification Engine: **WM3 1st Edition v1.2.GB - Oct 2021**
HazWasteOnline Classification Engine Version: 2026.56.7002.12617 (25 Feb 2026)
HazWasteOnline Database: 2026.56.7002.12617 (25 Feb 2026)

This classification utilises the following guidance and legislation:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

GB MCL List - version 1.1 of 09 June 2021

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

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

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

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

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

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

Supplementary guidance for the selection of water pipes in land potentially affected by contamination



Introduction

In January 2011, UK Water Industry Research (UKWIR) published "Guidance for the Selection of Water Supply Pipes to be used in Brownfield Sites" (Ref 10/WM/03/21; the 'UKWIR Guidance'). Its aim is to ensure that the correct materials are selected for water pipes and components to be used below ground in brownfield sites to protect the quality of drinking water whilst taking into account the service life of the water distribution system. It supersedes the Water Regulations Advisory Scheme (WRAS) Information and Guidance Note 9-04-03 "Laying Pipes in Contaminated Land" which has been withdrawn.

The UKWIR Guidance is for use by developers, self-lay organisations, water companies and consultants when planning, designing and constructing water mains and/or services in brownfield sites. It defines brownfield sites as "land or premises that have previously been used or developed. They may also be vacant or derelict. However, they are not necessarily contaminated." The UKWIR Guidance states that it does not apply to greenfield sites; however, we consider this supplementary guidance and the relevant sections of the UKWIR guidance as being equally suitable for application to those greenfield sites considered to be potentially affected by contamination. Where greenfield sites are not affected by contamination a preliminary risk assessment (see below) will suffice.

The UKWIR Guidance also states that there should be no departure from its provisions "*except where formally approved by the Water Company, such departure being technically justifiable or representing advances in knowledge or product development*".

We have adopted the UKWIR Guidance in principle and produced this company specific supplementary guidance (the 'UUW Guidance') which includes the Risk Assessment for Water Pipes (the 'RA').

This guidance does not cover operative safety, health exposure modelling or accidental pipe damage.

Risk Assessment for Water Pipes in Land Potentially Affected by Contamination

Any application for new water supplies to a development (construction of new properties, or renovation or conversion of existing buildings) in land potentially affected by contamination shall include a completed RA.

As a minimum a desk study (preliminary risk assessment) shall be provided with the RA in accordance with the framework in Environment Agency publication "Model Procedures for the Management of Land Contamination" (ref: CLR11) that sets out whether the land through which the pipes are to be laid may be affected by contamination. The application of the source, pathway, receptor concept will be an integral part of any pipeline risk assessment. For each potential source (the contamination) and each potential receptor (the water pipe), consideration shall be given to whether a potential pathway between source and receptor exists, or may exist in the future, linking the two. There are normally only three pathways by which contamination may come into contact with water pipes. These are direct contact with the soil or backfill, an excessive vapour phase or a contaminated groundwater regime. If none of these conditions exist on site (adopting the source, pathway, receptor concept) then it is likely that extended and/or targeted soil testing will not be required and a simple risk assessment will suffice. For those sites where land may be affected by contamination appropriate testing shall be undertaken on the materials within which the pipes are to be laid, whether that be existing ground materials, remediated materials or imported capping materials. The testing requirements are as described in the following section.

The signatories of the Water Supply Application Form and the RA must ensure that all assessments of land condition have been carried out in accordance with applicable current standards and guidelines by or under the direction of a suitably qualified competent person.

We require the competent person to be a) a chartered member of an appropriate professional body (such as the Institution of Civil Engineers, the Geological Society of London or the Royal Institution of Chartered Surveyors) with relevant experience of investigating contaminated sites or b) a Specialist in Land Condition (SiLC) with appropriate geo-environmental experience.

Testing Requirements

The soil, rock and if appropriate groundwater tests that are required on all sites where the potential for organic contamination has been identified in the desk study and where water pipes are proposed to be laid must be accredited by United Kingdom Accreditation Service (UKAS) as a minimum and where commercially available the Environment Agency's Monitoring Certification Service (MCERTS). These accredited tests should be undertaken for:

Banded hydrocarbons EC5-EC10, EC10-EC16, EC16-EC40 (Total aliphatic and aromatic hydrocarbons for each banding may be summed). Aliphatic/aromatic fractionation and subsequent banding may be required should a more detailed site specific risk assessment be undertaken. The bandings have been amended to take into account readily available laboratory tests. The equivalent carbon number (EC) is used to assess petroleum hydrocarbon mixtures rather than the actual number of carbon atoms in the molecule in line with guidance issued by the Environment Agency (2005).

Volatile organic compounds (VOCs) (method by head space or purge & trap GCMS) with tentative identification of compounds greater than 20µg/kg. The method used should be capable of detecting a wide range of compounds listed in US EPA Method 8260C or similar. The method should include analysis of naphthalene.

BTEX (Benzene, toluene, ethyl benzene and xylenes) plus MTBE (Methyl-tertiary butyl ether) (by head space GCMS)

Semi-Volatile Organic Compounds (SVOCs) (method by GCMS) with tentative identification of compounds greater than 20µg/kg. The method used should be capable of detecting the compounds listed in US EPA Method 8270D or similar. The total concentration of SVOCs excludes polycyclic aromatic hydrocarbons, ethers, nitrobenzene, ketones, aldehydes, phenols, cresols and chlorinated phenols. Phenols, cresols and chlorinated phenols which are detected by the SVOC analysis are given their own assessment criteria.

We do not consider Table G1 and Table 3.1 of the UKWIR Guidance to be a definitive guide for assessing total concentrations. Table 1 in the RA below replaces Table 3.1 of the UKWIR Guidance.

Where previous site uses include the use, storage, treatment, disposal or manufacture of any of the following, appropriate testing for these substances will be required:

Ethers, nitrobenzene, ketones, aldehydes and amines. Note that the presence of amines on any site at the proposed pipe depth +/- 1.0m precludes the use of polyethylene. The methods of analysis and method of calculation of total concentrations of these compounds will need to be agreed with UUW.

To comply with the testing requirements, the suites of tests that are required on all brownfield sites where wrapped steel, wrapped ductile iron or copper pipes are to be laid as minimum must include:

pH, Conductivity and redox potential

Sufficiency of Testing

Water pipes are normally laid at between 0.75 and 1.35m from finished ground level to crown of pipe. Samples taken and tested must represent both a) the soil in which the water pipes are to be laid and b) the soil down to at least 500mm below the underside of the proposed pipe. Where the proposed depth of the pipes is unknown at the time of application, soil samples representative of the ground condition between surface level and 1.5m below finished ground level shall be taken as a minimum. Where appropriate (see UKWIR Guidance) groundwater sampling and groundwater monitoring will also be

necessary. Photo-ionisation detection (PID) monitoring along the proposed route of the pipeline may be employed, though this does not provide a definitive guide to the suitability of water pipe materials.

Where required a sufficient number of test results should be obtained from the material in which the pipes are to be laid. CLAIRE/CIEH 2008 "Guidance on comparing soil contamination data with a critical concentration" may be used, where appropriate, to justify the number of soil samples tested; however, this statistical model should not be used on heterogeneous materials or used to average test results from different types of materials.

Further guidance on representative sampling is contained within BS10175:2011 Code of Practice for the Investigation of Potentially Contaminated Sites, the Department of the Environment's Contaminated Land Research Report "Sampling strategies for contaminated land" prepared by The Centre for Research into the Built Environment, Nottingham Trent University (Ref: CLR 4; 1994) and the Environment Agency's "Secondary Model Procedure for the Development of Appropriate Soil Sampling Strategies for Land Contamination" (ref: R&D Technical Report P5-066/TR; 2000).

Where remediation has been carried out on the site, the test results obtained from validation samples will be used in the assessment. Where a horizontal capping system has been or will be employed using materials spread across a site, sufficient samples will need to be taken to characterise the capping material used and the results presented to UUW. However, the sufficiency of sampling on the horizontal capping system, in which the pipeline will be placed, may be assessed on the basis of the source, quantity and type of materials used.

Detection Limits

Only positive concentrations, ie those above the limit of detection should be used in summation of VOC and SVOC (or other test groups of compounds ie phenols, cresols and chlorinated phenols). Laboratory methods shall provide a minimum limit of detection of 10µg/kg for each individual VOC or SVOC (or other test groups of compounds) quantitatively detected in accordance with the methods described above. For tentatively identified compounds (TICs), only those compounds with a concentration of 20µg/kg or greater shall be used in the summation of VOC and SVOC (or other test groups of compounds).

Protective Measures

Where polyethylene, ductile iron, steel or copper pipes are to be laid on a brownfield site or other land potentially affected by contamination (whether or not it has been remediated) and where the concentrations exceed the generic guideline values set out in Table 1 of the RA, the developer shall provide either:

- a) a robust risk assessment to show how any contaminants will not significantly impact on proposed water supplies or buried assets over the lifetime of the assets; or
- b) more suitable pipe materials; or
- c) an engineering solution to protect the pipe work backed up by an adequate assessment of the risk.

Liquid free phase product (e.g. oil or free solvent layers) shall not remain in the ground or groundwater in the vicinity of water pipes, whether barrier pipe or any other pipe materials are used.

When designing pipe routes on land potentially affected by contamination, new preferential contamination pathways along the route of new water pipes shall not be created. Particular measures may be required to prevent the possible migration of contamination through pipe bedding and into controlled waters.

References

BS10175:2011 "Investigation of Potentially Contaminated Sites Code of Practice"

CLAIRE/CIEH "Guidance on comparing soil contamination data with a critical concentration" 2008

Department of the Environment Contaminated Land Research Report "Sampling strategies for contaminated land" prepared by The Centre for Research into the Built Environment, Nottingham Trent University (Ref: CLR 4) 1994

Environment Agency "Secondary Model Procedure for the Development of Appropriate Soil Sampling Strategies for Land Contamination" (ref: R&D Technical Report P5-066/TR) 2000

Environment Agency "Model Procedures for the Management of Land Contamination" (ref: CLR11), 2004

Environment Agency P5-080/TR3 "The UK Approach for Evaluating Human Health Risks from Petroleum Hydrocarbons in Soils", 2005

UK Water Industry Research (UKWIR) "Guidance for the Selection of Water Supply Pipes to be used in Brownfield Sites" (Ref 10/WM/03/21)" January 2011

Water Regulations Advisory Scheme (WRAS) Information and Guidance Note 9-04-03 "Laying Pipes in Contaminated Land" 2002



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Risk Assessment for Water Pipes (RA)



The risk assessment for water pipes will help you choose appropriate materials for your development. We are happy to deal with a risk assessment for water pipes in advance of any formal application for a new water supply.

If you need any help completing the form please call us on 0845 026 4296.

When completing this form electronically, the larger text boxes will expand in height if required.

Section 1: Development Details

Development Name (<i>if it has one</i>)	Ramsden Farm
Development Address	Plots 5 to 7, Ramsden Farm, Roundthorn Road, Middleton, M24 1FT
OS Grid Reference (<i>mid point</i>)	387707, 405374
Developers Name	Kevin Kelly
UW reference number (<i>for UU use only</i>)	

Please provide details below of the current and historical use of the site and adjacent sites.

If your supporting information has details of the current and historical site use, please reference below the relevant sections of your report.

The site is a vacant plot with fields to the north, east, northwest and housing to the southeast, southwest and west. There have previously been several farm buildings to the north, these were demolished, following a fire circa 2005, and have now built over by plots 1-4.

Plots 5-7 are a previously undeveloped field where only very low levels of contaminants are anticipated. No pollutant linkages are expected to arise and a very low risk is anticipated. There are no specific point sources for contaminants on site and the investigation will need to target proposed gardens and houses.

Section 2: Preliminary Risk Assessment

Has your desk study and site walkover identified any land potentially affected by contamination?	☒ Yes ☐ No
--	---

If the site is potentially affected by contamination but you have not completed any intrusive site investigation please provide details below of the rationale behind the intended pipe selection.

If your supporting information has details of the rationale behind the intended pipe selection, please reference below the relevant sections of your report.

N/A

Section 3: Intrusive Site Investigation	
Have you completed any intrusive site investigation?	☒ Yes ☐ No
Date(s) when the site investigation(s) undertaken	March - April 2026
At what level has groundwater been encountered?	>2.5 metres below ground level or ☐ Not encountered
Table 1 (Pipeline Selection Risk Assessment Summary (PSRAS)) below classifies testing required where the preliminary risk assessment has identified land potentially affected by contamination. Please provide details below of any test groups which have not been tested and the rationale for not testing. <i>If your supporting information has details of the rationale behind not testing any particular test groups, please reference below the relevant sections of your report.</i>	
N/A	
If the intrusive site investigation has identified concentrations above the PE threshold (see PSRAS) and your intended pipe selection is PE please provide details below of the rationale behind the intended pipe selection. <i>If your supporting information has details of the rationale behind the intended pipe selection, please reference below the relevant sections of your report.</i>	
N/A	

Section 4: Site Remediation	
Please provide details below of any site remediation (which may include a change in site levels) already completed. <i>If your supporting information has details of the site remediation already completed, please reference below the relevant sections of your report.</i>	
No remedial works have been carried out	
Has the PSRAS (Table 1) been completed using appropriate data after remediation?	☐ Yes ☐ No ☒ N/A
Please provide details below of any proposed site remediation and an analysis of whether this will affect your intended pipe selection. <i>If your supporting information has details of any proposed site remediation and whether this will affect your intended pipe selection, please reference below the relevant sections of your report.</i>	
No remedial works are required	

Section 5: Final Use of Site

Please provide details below of any chemicals (including fuel) to be stored on site and any other future contamination risks which may affect your intended pipe selection.

If your supporting information has details of potential contamination risks which may affect your intended pipe selection, please reference below the relevant sections of your report.

There are no proposals to store chemicals on site

What water pipe materials are intended to be used on site?

☒ PE ☐ PE Barrier Pipe Type A ☐ PE Barrier Pipe Type B
Other (please specify):

Section 6: Additional Information

Please use the section below to provide any additional details to support your intended pipe selection.

If your supporting information has additional information to support your intended pipe selection, please reference below the relevant sections of your report.

N/A

Section 7: Risk Assessor

Name and relevant qualifications of person directing the risk assessment for water pipes

Graham Cannon, BSc MICE FGS, CEnv, CEng

Name and address of risk assessor's company

Worms Eye Limited, PO BOx 1157, Colne, BB9 4HS

Date risk assessment performed

8/4/26

Section 8: Declaration

I confirm I have completed this form and provided supporting information in accordance with 'UKWIR Guidance for the Selection of Water Supply Pipes to be used in Brownfield Sites' and UUW's Supplementary Guidance. I also confirm that if any further site investigation is needed and carried out, I will be required to submit an additional Risk Assessment for Water Pipes with the relevant supporting information. I understand that failure to supply any of the required information may delay my application being processed.

Name

Graham Cannon

Company

Worms Eye Ltd

Phone Number

01282 414649

Date

8/4/26

Please e-mail the completed form and supporting information to water.connections@uuplc.co.uk. Alternatively you can fax a paper version to 01925 678926 or post to us at United Utilities Water, Metering and Connections, Ullswater House, Lingley Mere, Warrington, WA5 3LP.



About us

United Utilities is the North West's water company. We keep the taps flowing and toilets flushing for seven million customers every day. From Crewe to Carlisle, we work hard behind the scenes to help your life flow smoothly.

United Utilities Water PLC, Haweswater House, Lingley Mere Business Park, Lingley Green Avenue, Warrington WA5 3LP.
Registered in England and Wales. Registered Number 2366678.

Table 1 - Pipe Selection Risk Assessment Summary (PSRAS)

- 1) Testing must be undertaken on the materials within which the pipes are to be laid, whether that be existing ground materials, remediated materials or imported capping materials. Please use the appropriate testing data to complete Table 1 below.
- 2) If more than one pipe selection is being made, for example, for pipes in different areas of a large site, a completed PSRAS is required for each selection.

What materials have been tested to populate Table 1 below?

☒ Existing ground materials ☐ Remediated materials ☐ Imported capping materials

All concentrations in mg/kg								
Test Group	Testing Required?	PE threshold	Metal Pipes/ Barrier Pipe	Laboratory Detection Limit	Testing UKAS accredited Y/N	Maximum concentration at proposed pipeline depth See Note [2]	Maximum site concentration See Note [3]	Locations and depths where concentrations exceed proposed pipeline threshold
Total VOCs	Where Preliminary Risk Assessment (PRA) has identified land potentially affected by contamination	0.5	Pass	0.25		<0.25	<0.25	
Total BTEX & MTBE		0.1	Pass	0.033		<0.033	<0.033	
Total SVOCs (excluding PAHs and those substances marked with an *)		2	Pass	0.3		<0.3	<0.3	
EC5-EC10 aliphatic and aromatic hydrocarbons		2	Pass	<0.07		<2	<2	
EC10-EC16 aliphatic and aromatic hydrocarbons		10	Pass	6		<6	<6	
EC16-EC40 aliphatic and aromatic hydrocarbons		500	Pass	20		<20	<36	
Phenols* (from SVOC analysis)		2	Pass	1		<1.4	<1.4	
Cresols and chlorinated phenols* (from SVOC analysis)		2	Pass	0.3		<0.3	<0.3	
Ethers*	Only where identified	0.5	Pass					
Nitrobenzene*		0.5	Pass					
Ketones*		0.5	Pass					
Aldehydes*		0.5	Pass					
Amines		Fail	Pass					
Corrosive	Conductivity, Redox and pH	Pass	See Note [1]					

Note [1] Threshold: For wrapped steel, corrosive if pH<7 and conductivity > 400µS/cm. For wrapped ductile iron corrosive if pH<5, Eh not neutral and conductivity > 400µS/cm. For copper, corrosive if pH<5 or >8 and Eh positive.

Note [2] Water pipes are normally laid at 0.75-1.35m below finished ground level.

Note [3] Also state if liquid free product is present in soil or groundwater.

GROUND GAS TESTING RESULTS

RAMSDEN FARM, ROUNDTORN ROAD, MIDDLETON, MANCHESTER, M24 1FT

Date	Barometric Pressure (mb)	Temp. °C	Weather	BH	Methane CH ₄ (%)	Oxygen O ₂ (%)	Carbon Dioxide CO ₂ (%)	Steady State CO ₂ (%)	Outflow from BH (l/hr)	Depth to water (m)	Comments
					0	20.9	0	0	0		Fresh air
					1.0 *		5.0 *		70 ❖		Threshold values
04.03.26	1008 (+1/24hr)	14	Sunny	1	0.0	19.2	1.3	1.3	0.0	2.55	
				2	0.0	19.5	1.1	1.1	0.0	3.20	
				3	0.0	20.1	0.7	0.7	0.0	3.70	
				4	-	-	-	-	-	-	Lock damaged
16.03.26	997 (+7/24hr)	9	Overcast	1	0.0	19.5	1.0	1.0	0.0	2.6	
				2	0.0	19.8	0.7	0.7	0.0	3.2	
				3	0.0	20.4	0.4	0.4	0.0	3.7	
				4	0.0	19.9	0.4	0.4	0.0	3.0	
30.03.26	1008 (+2/24hr)	8	Overcast	1	0.0	19.7	0.6	0.6	0.0	2.6	
				2	0.0	20.1	0.4	0.4	0.0	3.2	
				3	0.0	20.4	0.3	0.3	0.0	3.7	
				4	0.0	19.9	0.3	0.3	0.0	3.0	

Testing machines: GFM 426

Outflow - 0 taken as < 0.1litres/hour flow of gas from borehole

* NHBC green limit, CIRIA situation 1 limit

❖ CIRIA situation 2 limit

GROUND GAS TESTING RESULTS

RAMSDEN FARM, ROUNDTORN ROAD, MIDDLETON, MANCHESTER, M24 1FT

Date	Barometric Pressure (mb)	Temp. °C	Weather	BH	Methane CH ₄ (%)	Oxygen O ₂ (%)	Carbon Dioxide CO ₂ (%)	Steady State CO ₂ (%)	Outflow from BH (l/hr)	Depth to water (m)	Comments
					0	20.9	0	0	0		Fresh air
					1.0 *		5.0 *		70 ❖		Threshold values
15/4/26	995 (-6/24hr)	12	Clea	1	0.0	19.9	0.6	0.6	0.0	2.65	
				2	0.0	20.3	0.2	0.2	0.0	3.1	
				3	0.0	20.4	0.1	0.1	0.0	3.70	
				4	0.0	20.1	0.1	0.1	0.0	3.05	
13/5/26	984 (-14/24hr)	9	Overcast	1	0.0	20.0	0.5	0.5	0.0	2.65	
				2	0.0	20.3	0.2	0.2	0.0	3.1	
				3	0.0	20.4	0.1	0.1	0.0	3.7	
				4	0.0	20.1	0.1	0.1	0.0	3.05	
11/6/26	997 (-1/24hr)	9	Rain	1	0.0	20.1	0.4	0.4	0.0	2.65	
				2	0.0	20.2	0.1	0.1	0.0	3.1	
				3	0.0	20.4	0.2	0.2	0.0	3.7	
				4	0.0	20.1	0.2	0.2	0.0	2.9	

Testing machines: GFM 426

Outflow - 0 taken as < 0.1litres/hour flow of gas from borehole

* NHBC green limit, CIRIA situation 1 limit

❖ CIRIA situation 2 limit

TEST DATE AND CONDITIONS			
Date	18/07/2025		
Atmospheric Pressure	995	mB	
Ambient Temperature	21.3	°C	
EnviroNics Serial No.	5089		

**GFM426 Final Inspection & Calibration
Check Certificate**

GAS DATA LTD

Unit D
Earlplace Business Park
Fletchamstead Highway
Coventry
CV4 9XL



Tel 02476303311 Fax 02476307711

Customer	Ribble Enviro Ltd
Certificate Number	126457
Order Number	344290

Serial Number	13727
Software Version	G426-00.0029/0011

Recalibration DUE Date
18/07/26

Instrument Checks					
Keyboard	✓		Display Contrast	✓	
Pump Flow In	400	Accept > 200 cc/min	Pump Flow @ -200mB	300	Accept > 200 cc/min
Clock Set / Running	✓		Labels Fitted	✓	

Gas Checks						
Sensor	CH ₄		CO ₂		O ₂	
	Instrument Gas	True Gas Value %	Instrument Gas	True Gas Value %	Instrument Gas	True Gas Value %
	Readings %		Readings %		Readings %	
	59.9	60	40.3	40	20.9	20.9
	Accept ±3.0		Accept ±3.0		Accept ±0.5	
	4.9	5	5.1	5	6.0	6
	Accept ±0.3		Accept ±0.3		Accept ±0.3	
Zero Reading 100% N ₂	0.0	0	0.0	0	0.0	0
	Accept ±0.0		Accept ±0.0		Accept ±0.1	

Optional Gas Checks						
Applied Gas & Range		Concentration Tested @ (ppm)	Instrument Readings (ppm)			
Toxic Gas	Range (ppm)		Zero Reading		Instrument Gas Reading	
H ₂ S	5000	1500	0	Accept ±0.0	1500	Accept ±5.0%
CO	2000	1000	0	Accept ±0.0	1000	Accept ±5.0%

Cross Gas Effects									
Applied Gas (ppm)		Instrument Readings (ppm)							
Toxic Gas	Concentration	Toxic 1:	H2S	Toxic 2:	CO	Toxic 3:			
H2S	1500	1500		0					
CO	1000	100		1000					

Pressure Checks						
Atmospheric Pressure [AP] (mB)				Static Pressure [SP] (mB)		
Current Atmospheric	Instrument Atmospheric			Applied Pressure (mB)	Instrument Pressure (mB)	
Pressure (mB)	Pressure Reading (mB)					
All Ports	Open Ports	995	Accept ± 2.0	0.0mB	0.0	Accept ± 0.0
AP Port (Internal)	+800 mB	800	Accept ± 5.0	+400mB	400.0	Accept ± 2.0
AP Port (Internal)	+1200mB	1200	Accept ± 5.0	-400mB	-399.0	Accept ± 2.0

Differential Pressure [DP] (mB)			
Applied Pressure (mB)		Instrument DP Reading(mB)	
All Ports	Open Ports	0.00	Accept ± 0.02
DP Port	+ 25 mB	25.00	Accept ± 0.5
DP Port	- 25mB	-25.07	Accept ± 0.5

Temperature Checks		
Calibration Temperature	Instrument Temperature Reading °C	
Applied Temperature °C		
-10	-10.0	Accept ± 2.0
0	0.0	Accept ± 1.0
30	30.0	Accept ± 1.0
60	60.0	Accept ± 1.0
100	100.0	Accept ± 1.0

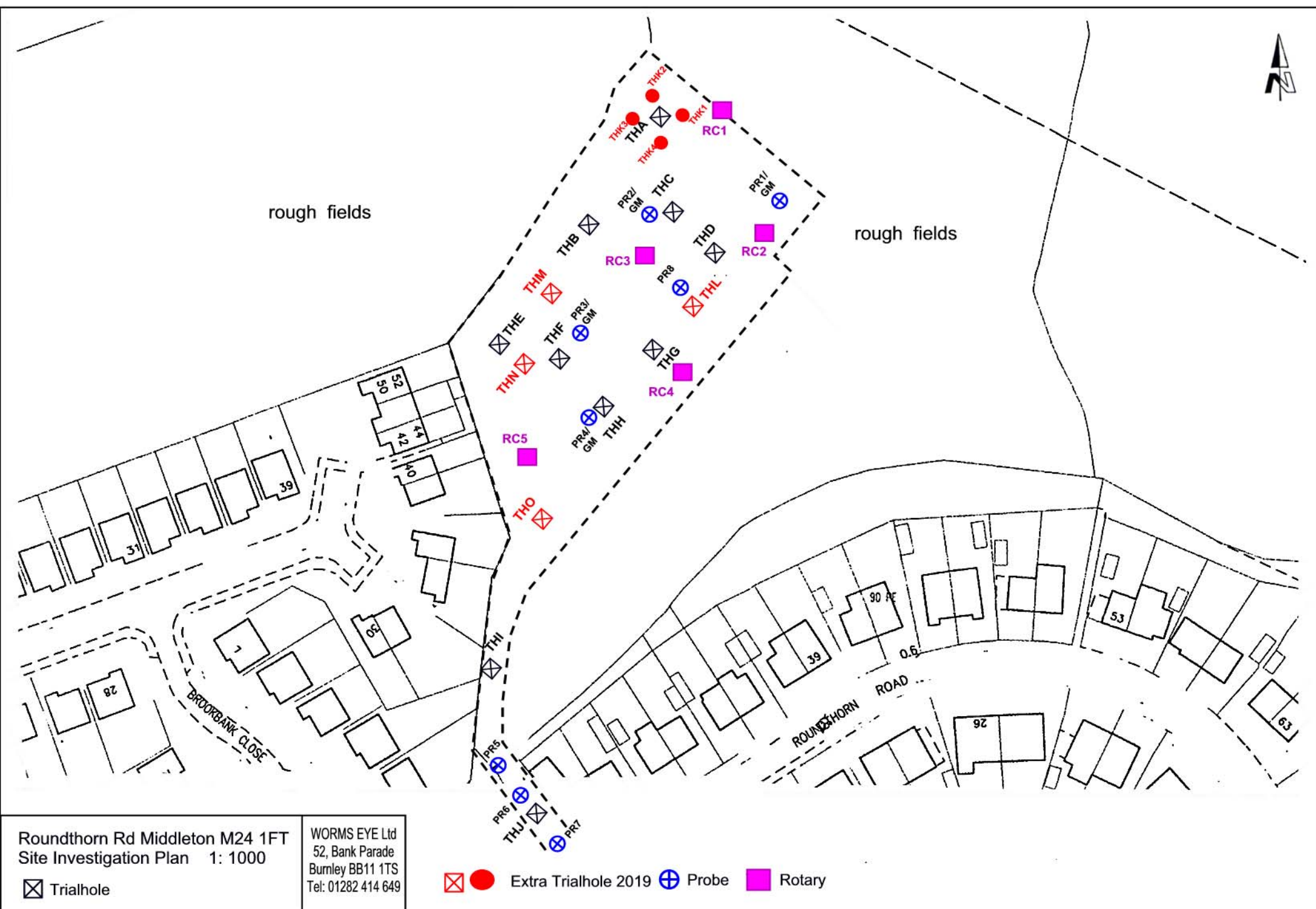
Technician:
Jack Rutland

Date Tested:
18/07/2025

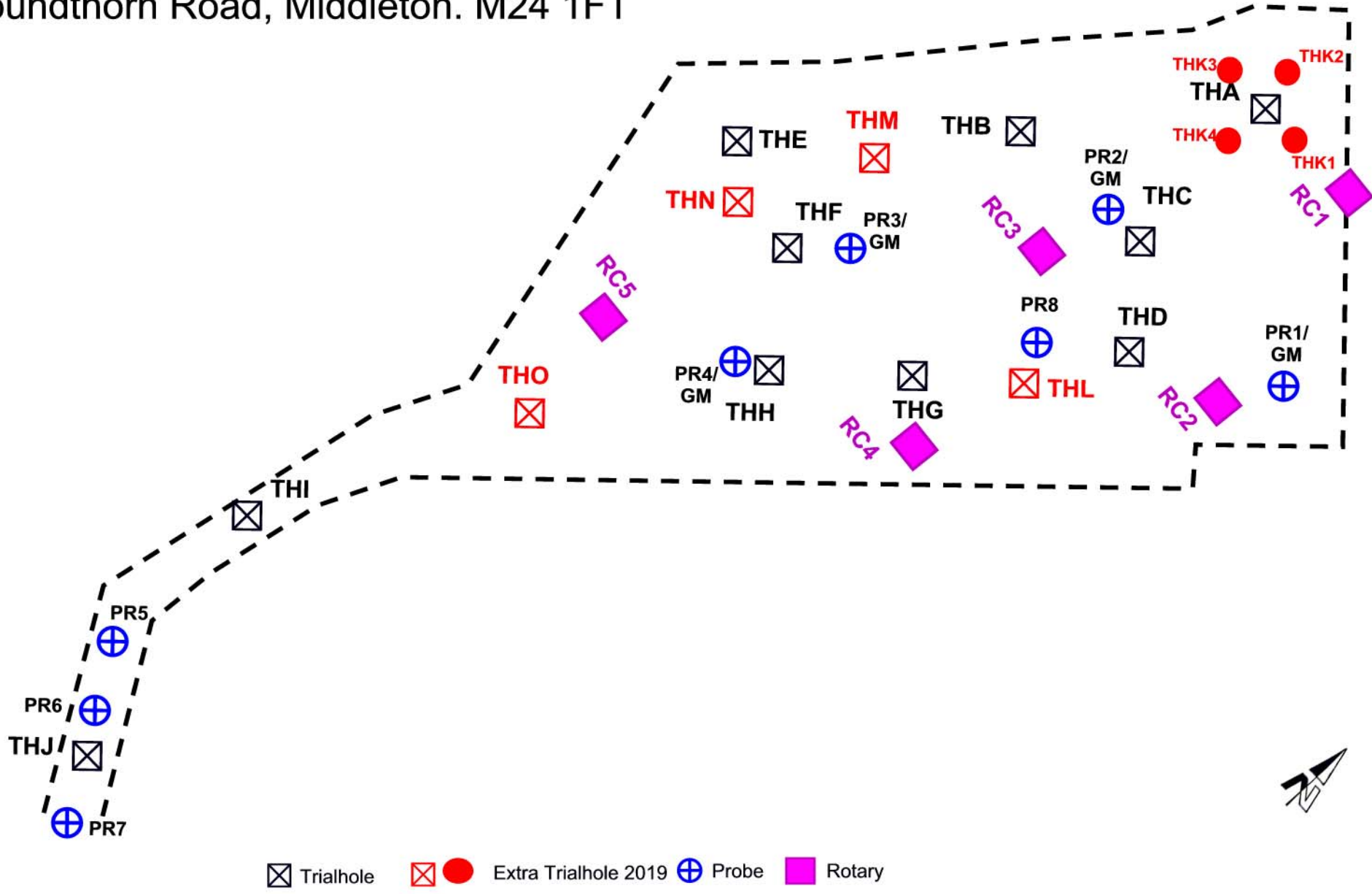
The instrument identified by the serial number stated above has been tested by Gas Data personnel for calibration accuracy on the date and under the ambient conditions stated. Gas Data Ltd internal BS EN ISO9001:2015, BS EN ISO14001:2015, BS EN ISO45001:2018 compliant workshop procedures were followed to apply known calibration test gases, gas flow rates, pressures and temperatures of the values stated. The results displayed on the instrument at each stage are recorded above.

Gas Data Ltd is certified to BS EN ISO9001:2015, BS EN ISO14001:2015, BS EN ISO45001:2018.

2019-2020 INVESTIGATION



Roundthorn Road, Middleton. M24 1FT



Ramsden Farm, Roundthorn Road
Middleton, Manchester, M24 1FT

THA

Scale 1: 10 16.05.19

360⁰ JCB light excavator

black topsoil and peat? with bricks
cloth, metal and flags
MADE GROUND

1800

light brown sand

2500

dry, no smell

All dimensions in millimetres

WORMS EYE

52 Bank Parade
Burnley, BB11 1TS

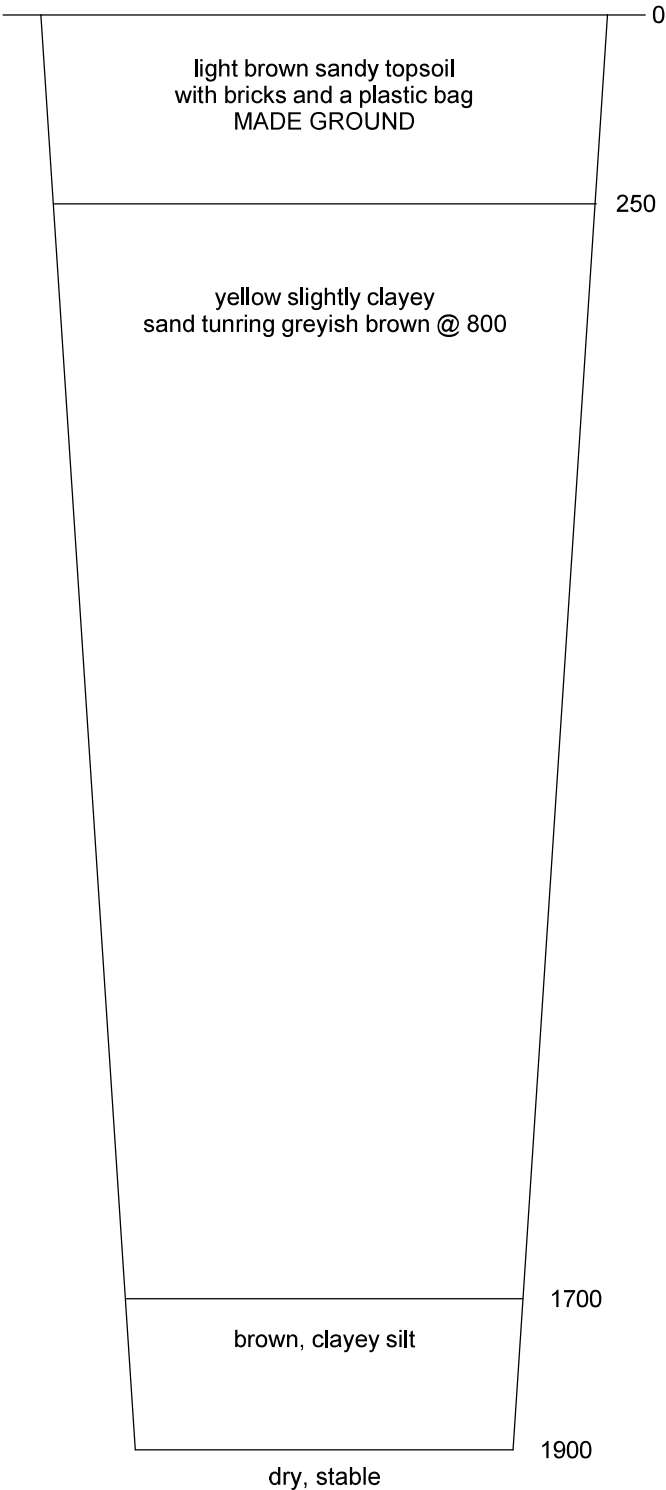
01282 414 649

Ramsden Farm, Roundthorn Road
Middleton, Manchester, M24 1FT

THB

Scale 1: 10 16.05.19

360⁰ JCB light excavator



WORMS EYE

52 Bank Parade
Burnley, BB11 1TS

01282 414 649

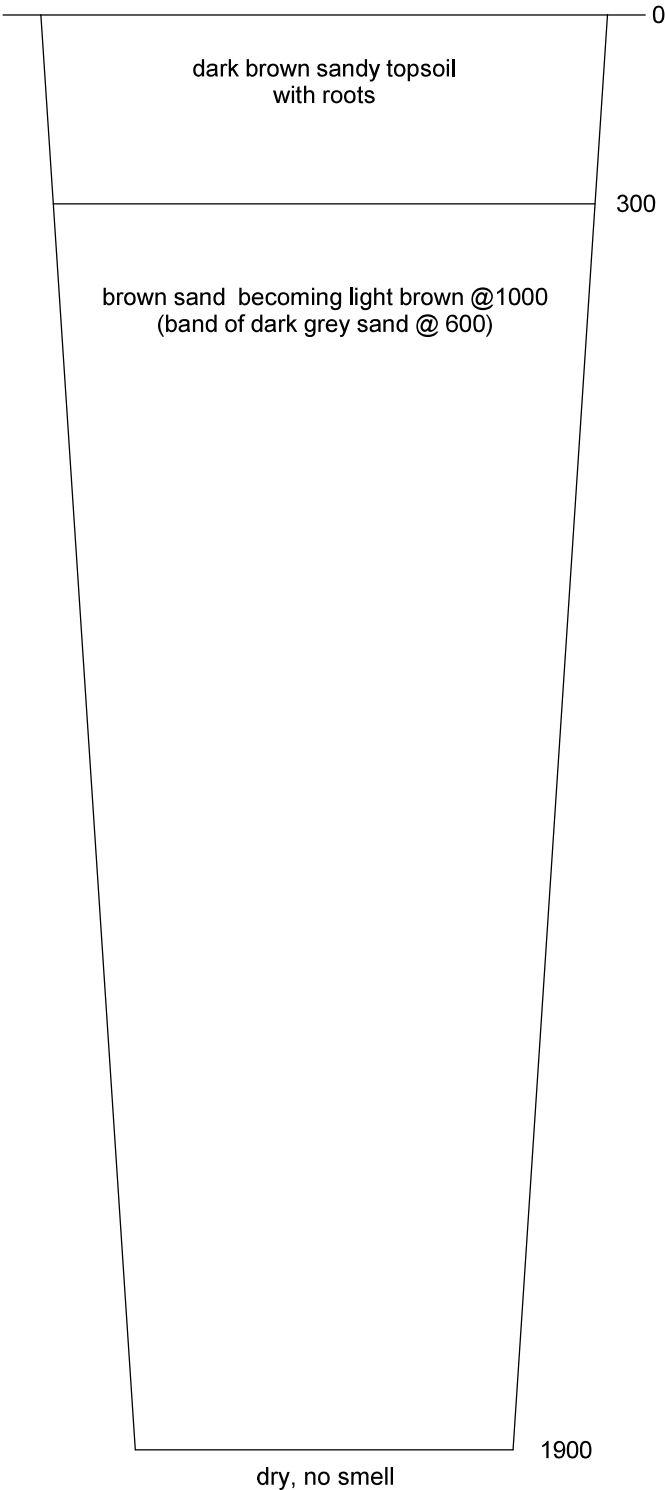
All dimensions in millimetres

Ramsden Farm, Roundthorn Road
Middleton, Manchester, M24 1FT

THC

Scale 1: 10 16.05.19

360⁰ JCB light excavator



WORMS EYE

52 Bank Parade
Burnley, BB11 1TS

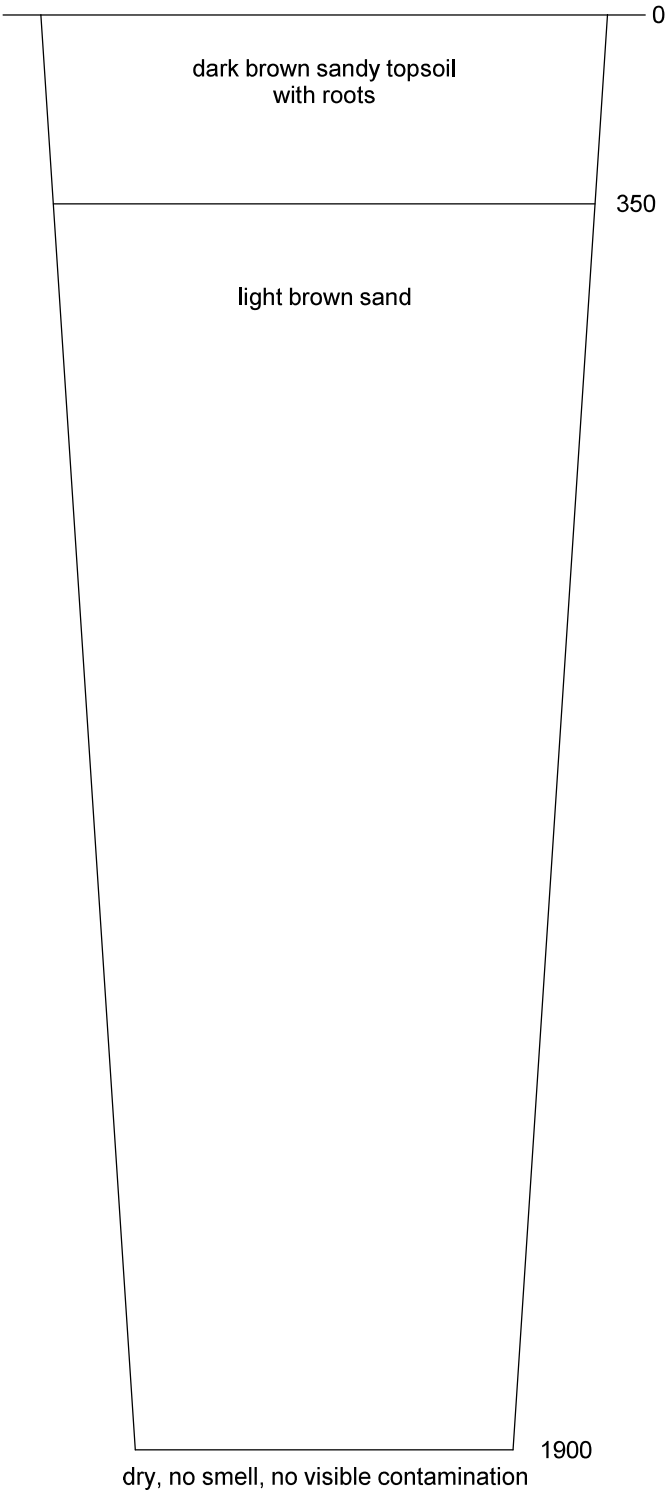
01282 414 649

Ramsden Farm, Roundthorn Road
Middleton, Manchester, M24 1FT

THD

Scale 1: 10 16.05.19

360⁰ JCB light excavator

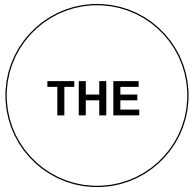


WORMS EYE

52 Bank Parade
Burnley, BB11 1TS

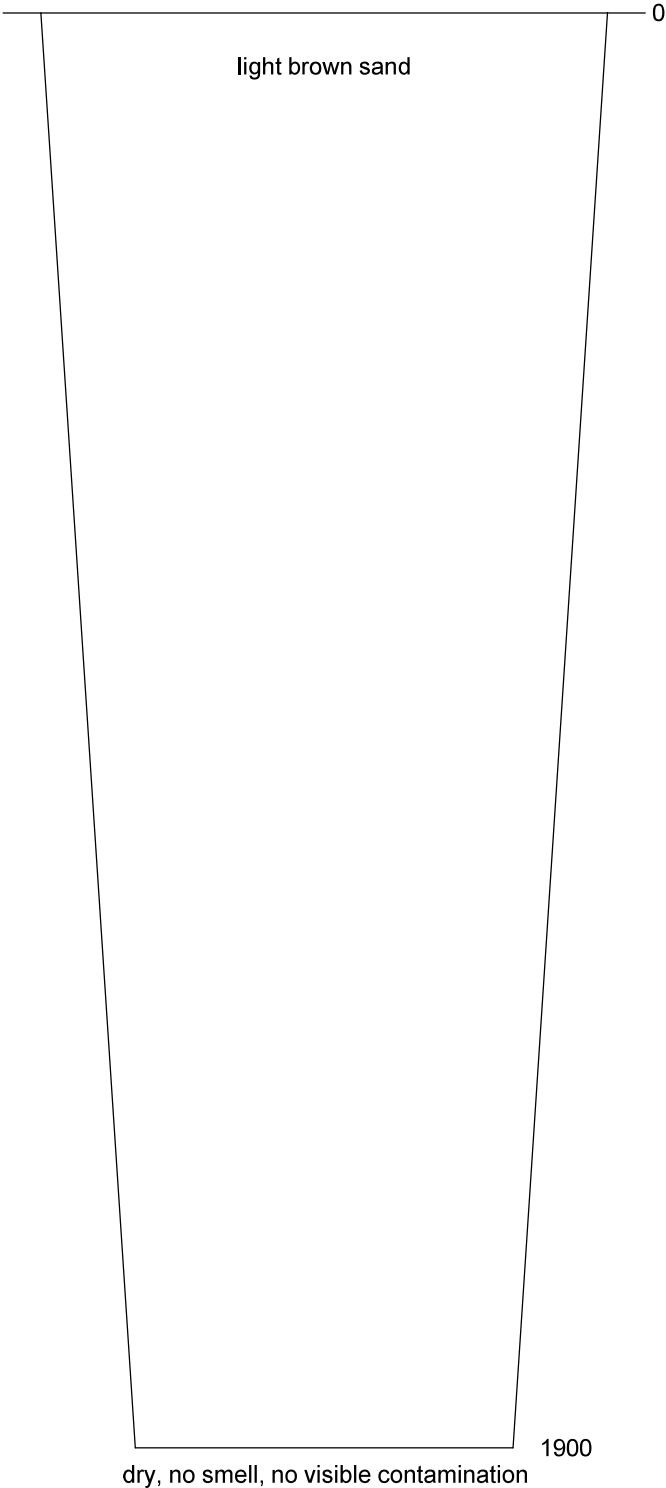
01282 414 649

Ramsden Farm, Roundthorn Road
Middleton, Manchester, M24 1FT



Scale 1: 10 16.05.19

360⁰ JCB light excavator



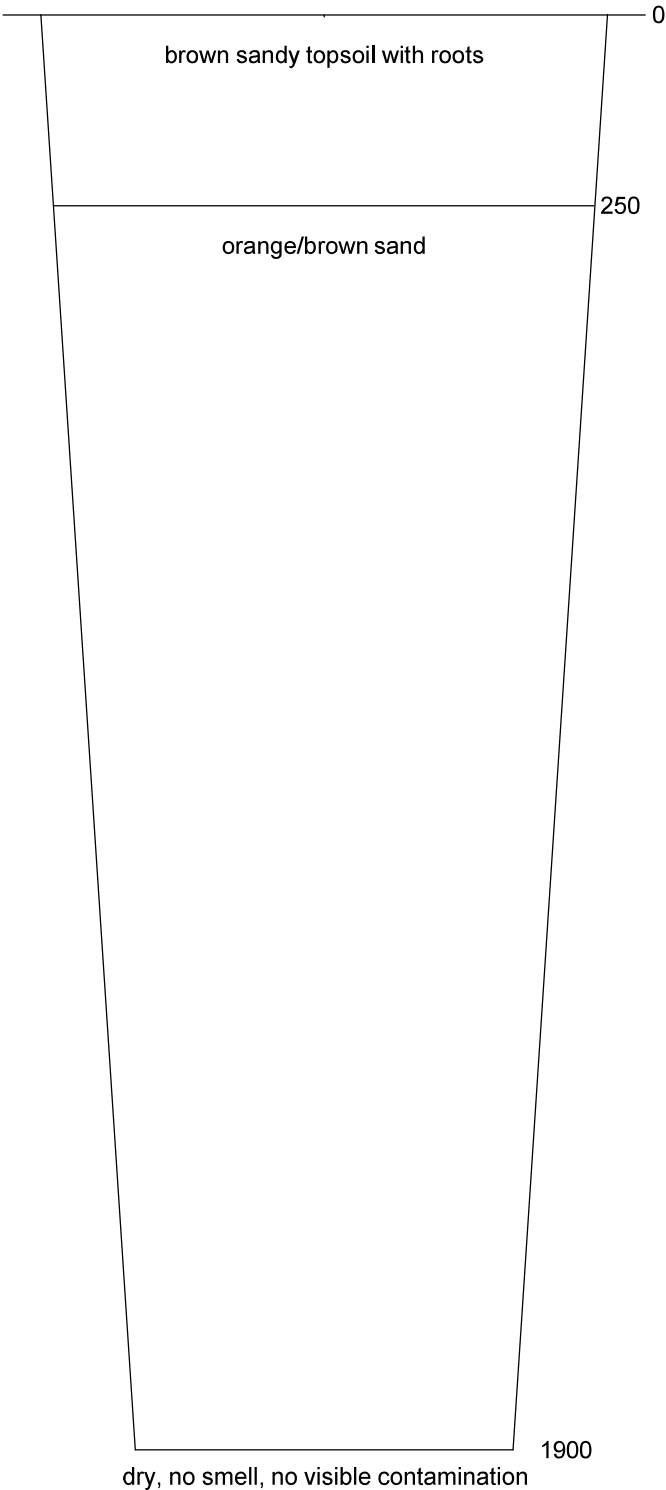
WORMS EYE
52 Bank Parade
Burnley, BB11 1TS
01282 414 649

Ramsden Farm, Roundthorn Road
Middleton, Manchester, M24 1FT

THF

Scale 1: 10 16.05.19

360⁰ JCB light excavator



WORMS EYE

52 Bank Parade
Burnley, BB11 1TS

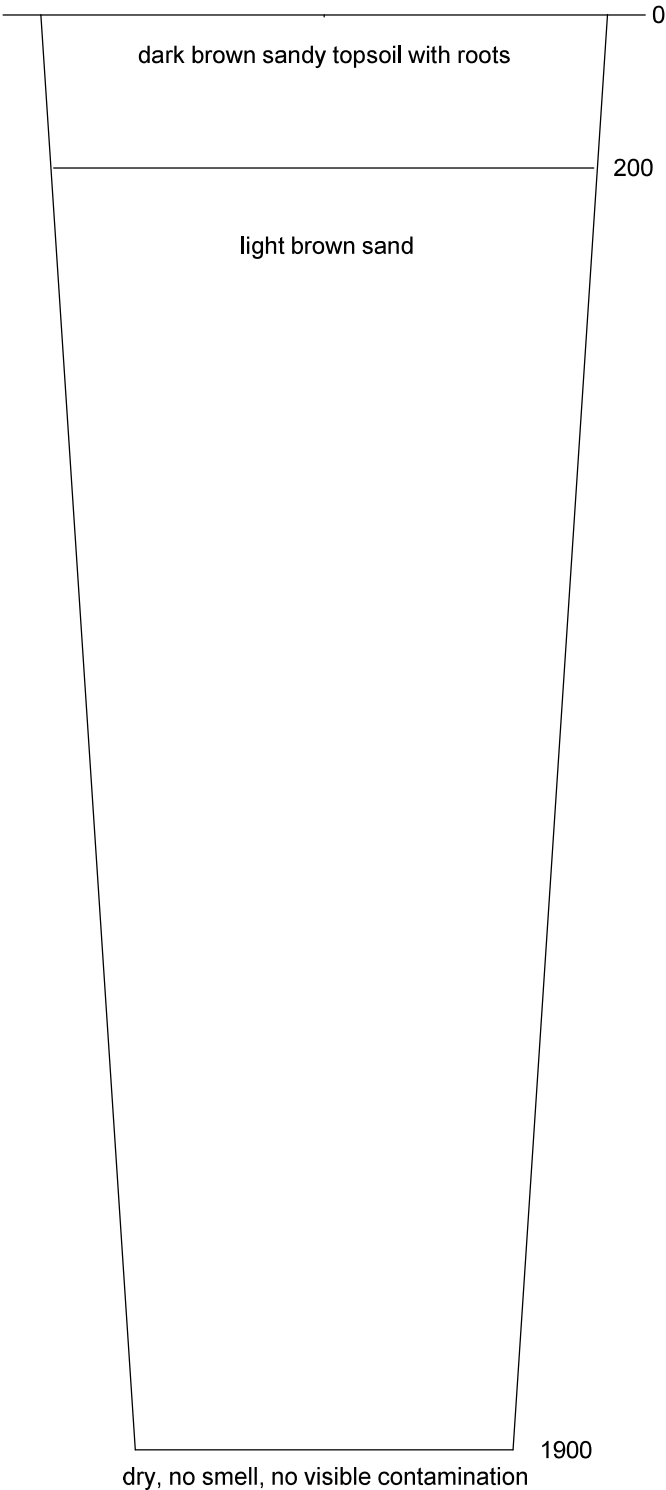
01282 414 649

Ramsden Farm, Roundthorn Road
Middleton, Manchester, M24 1FT

THG

Scale 1: 10 16.05.19

360⁰ JCB light excavator

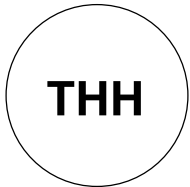


WORMS EYE

52 Bank Parade
Burnley, BB11 1TS

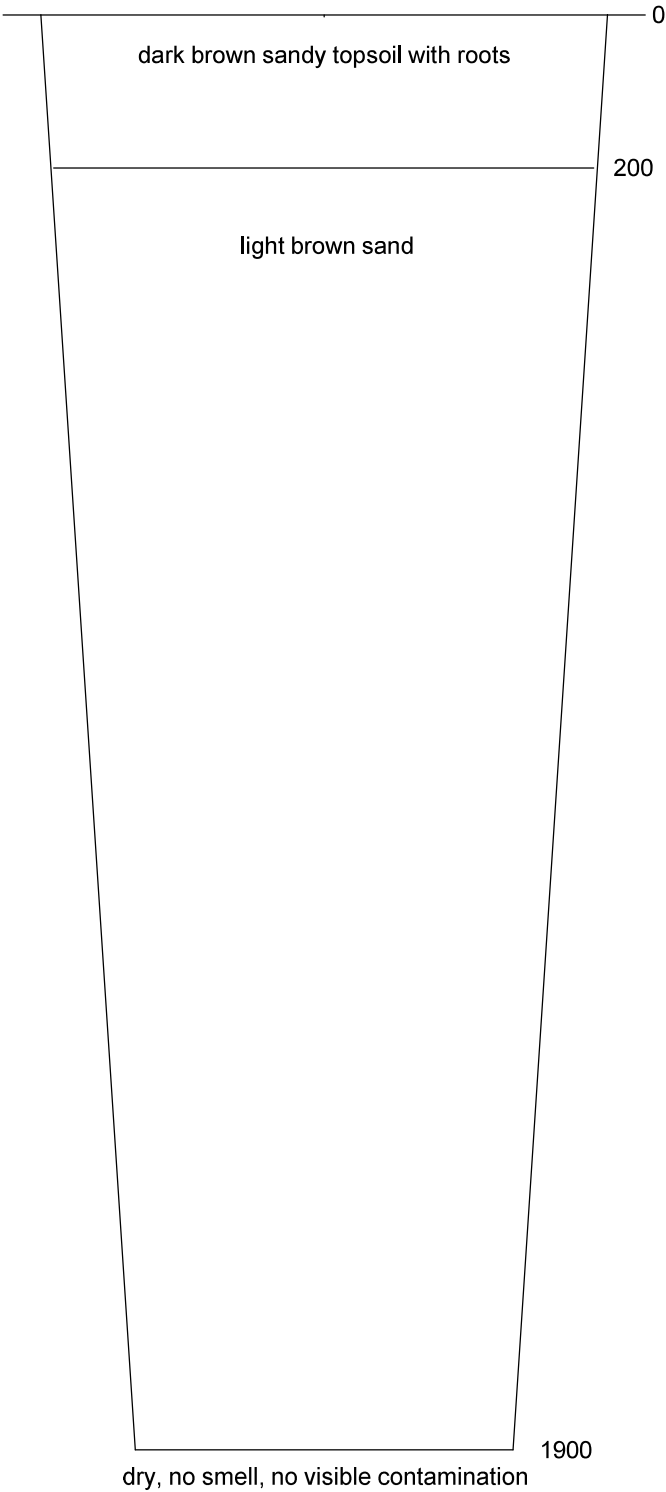
01282 414 649

Ramsden Farm, Roundthorn Road
Middleton, Manchester, M24 1FT



Scale 1: 10 16.05.19

360⁰ JCB light excavator



WORMS EYE

52 Bank Parade
Burnley, BB11 1TS

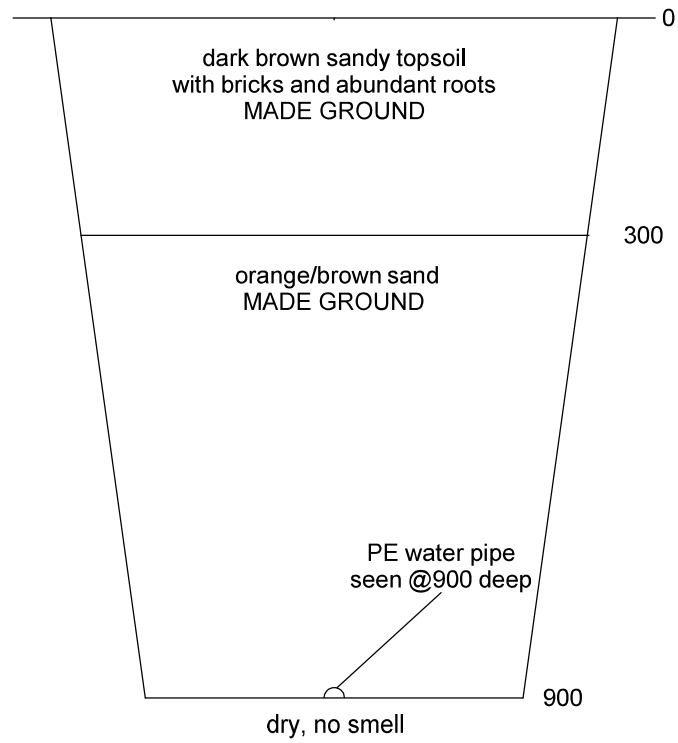
01282 414 649

Ramsden Farm, Roundthorn Road
Middleton, Manchester, M24 1FT

Scale 1: 10 16.05.19

THI

360⁰ JCB light excavator



WORMS EYE

52 Bank Parade
Burnley, BB11 1TS

All dimensions in millimetres

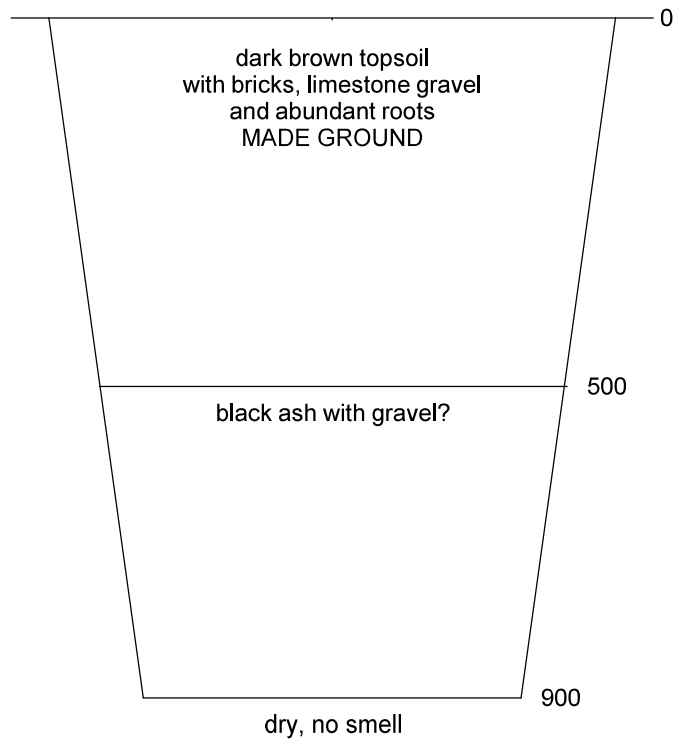
01282 414 649

Ramsden Farm, Roundthorn Road
Middleton, Manchester, M24 1FT

Scale 1: 10 16.05.19

THJ

360⁰ JCB light excavator



WORMS EYE

52 Bank Parade
Burnley, BB11 1TS

All dimensions in millimetres

01282 414 649

Roundthorn Road, Middleton, Manchester. M24 1FT

Trial Holes – September 2019

Trial Hole K

Depth (m)	Findings
K1 – 0.3	Orangish brown SAND
K2 – 0.3	Orangish brown SAND
K3 – 0.3	Light brown SAND
K4 – 0.3	Brown TOPSOIL with brick fragments (MADE GROUND)

Trial Hole L

Depth (m)	Findings
0.0 – 0.8	Light brown SAND

Trial Hole M

Depth (m)	Findings
0.0 – 0.3	Light brown SAND

Trial Hole N

Depth (m)	Findings
0.0 – 0.3	Light brown SAND

Trial Hole O

Depth (m)	Findings
0.0 – 0.7	Light brown SAND

**WORMS EYE LTD
DYNAMIC PROBE LOG**

Site: Roundthorn Road, Middleton M24 1FT

Probe: PR1

Location: Southeast corner

Date: 7th November 2019

Method: 63.5KG Weight with 750mm drop.

JSH

Depth (m)	Blows/ 100mm	Blows/ 300mm (N value)	Diagram	Strength
0			0 5 10 15 20 25 30 35 40	
	1		*	
	2	5	**	
	2		**	
	1		*	
0.5	1	3	*	
	1		*	
	1	5	*	
	1		*	
	3		***	
1	4		****	
	2	9	**	
	3		***	very low/low
	1		*	
1.5	0	1		
	0			
	1	3	*	
	1		*	
	1		*	
2	0	2	*	
	1		*	
	1	2		
	0			
	0	2	**	
2.5	2		*	
	1	5	**	
	2		**	
	3		***	
	4	11	****	
3	4		****	
	2		**	
	2	6	**	low
	2		**	
	3		***	
3.5	3	9	***	
	3		***	
	3		***	
3.9	3	9	***	
	3		***	
	3		***	

Continued

Dynamic Probe Log Continued

Probe: PR1

Site: Roundthorn Road, Middleton M24 1FT

Depth (m)	Blows/ 100mm	Blows/ 300mm (N value)	Diagram	Strength
			0 5 10 15 20 25 30 35 40	
3.9	-----			
4	3		***	
	2	9	**	
	4		****	low
	3		***	
	2	8	**	
4.5	3		***	
	3		***	
	4	10	****	
	3		***	
	3		***	
5	4	10	****	
	3		***	
	3		***	
	4	11	****	
	4		****	
5.5	4		****	
	4	12	****	
	4		****	
	5	14	*****	
6	5		*****	medium/high
	5	15	*****	
	5		*****	
	6	16	*****	
	5		*****	
	4		****	
	4	14	****	
	6		*****	
7	6		*****	
	7	20	*****	
	7		*****	
	7		*****	
	6	20	*****	
7.5	7		*****	
	7	22	*****	
	8		*****	
	7		*****	
8	8	22	*****	
8.1	7		*****	

Continued

Dynamic Probe Log Continued

Probe: PR1

Site: Roundthorn Road, Middleton M24 1FT

Depth (m)	Blows/ 100mm	Blows/ 300mm (N value)	Diagram	Strength
			0 5 10 15 20 25 30 35 40	
8.1	----- 4		****	
	7	18	*****	
	7		*****	
8.5	4		****	
	4	13	****	medium
	5		*****	
	5		*****	
9	5	15	*****	
	6		*****	
	6	19	*****	
	7		*****	
	7		*****	
9.5	8	24	*****	
	9		*****	
	9		*****	
	10	29	*****	
10	10		*****	
	11		*****	
	9	29	*****	
	9		*****	
	9		*****	
10.5	8	25	*****	high
	8		*****	
	9		*****	
	10	29	*****	
	10		*****	
11	11	35	*****	
	12		*****	
	12		*****	
	12	35	*****	
11.5	11		*****	
	10		*****	
	10	31	*****	
	11		*****	
	12		*****	
12	12	36	*****	
	12		*****	
Continued				

Dynamic Probe Log Continued

Probe: PR1

Site: Roundthorn Road, Middleton M24 1FT

Depth (m)	Blows/ 100mm	Blows/ 300mm (N value)	Diagram	Strength
			0 5 10 15 20 25 30 35 40	
12	-----		*****	high
	12	37	*****	
	12		*****	
	13	40	*****	
12.5	13		*****	
	14	46	*****	

	13		*****	
	15		*****	
	15	51	*****	
13	16		*****	
	16		*****	

	17	58	*****	
	18		*****	
	19		*****	
13.5	19		*****	
	20	64	*****	

	21		*****	
	21		*****	
	22	69	*****	
14	22		*****	
	23		*****	

	24	79	*****	
	25		*****	
	27		*****	
14.5	27		*****	
	29	96	*****	

	31		*****	
	36		*****	
	40		*****	

WORMS EYE LTD
DYNAMIC PROBE LOG

Site: Roundthorn Road, Middleton M24 1FT

Probe: PR2

Location: Towards northeast of site

Date: 7th November 2019

Method: 63.5KG Weight with 750mm drop.

JSH

Depth (m)	Blows/ 100mm	Blows/ 300mm (N value)	Diagram	Strength
0	1	2	0 5 10 15 20 25 30 35 40	
0.5	1	1	*	
	1		*	
	0			
	0			
	1			very low/low
	0		*	
	1	6	*	
1	1		****	
	4		*****	
	6	14	*****	
	5		****	
	3		***	
	3		***	
1.5	3	9	***	
	3		***	
	3		**	
	2	9	****	
	4		***	
2	3	11	****	
	4		****	
	4		*****	
	5	14	*****	
	6		***	
2.5	3		***	
	3		****	
	4	12	*****	
	5		***	
	3		****	
3	4	11	****	
	4		****	
	4		****	
	4	12	****	
	4		****	
3.5	4	12	****	
	4		****	
	4		***	
3.9	3	11	****	
	4		****	

Dynamic Probe Log Continued

Probe: PR2

Site: Roundthorn Road, Middleton M24 1FT

Depth (m)	Blows/ 100mm	Blows/ 300mm (N value)	Diagram	Strength
			0 5 10 15 20 25 30 35 40	
3.9	-----			
4	5		*****	
	5	16	*****	
	6		*****	
	5		*****	
4.5	6	18	*****	
	7		*****	
	7		*****	
	6	20	*****	
	7		*****	
5	7		*****	
	6	17	*****	
	4		****	
	4		****	
	3	11	***	
5.5	4		****	
	4		****	
	5	14	*****	
	5		*****	
	6		*****	
6	6	19	*****	
	7		*****	
	6		*****	
6.5	7	19	*****	
	6		*****	
	7		*****	
	8	22	*****	
7	7		*****	
	8		*****	
	10	28	*****	
7.5	10		*****	
	8		*****	
	9	25	*****	
	8		*****	
	8		*****	
8	8	23	*****	
8.1	7		*****	

medium

Continued

Dynamic Probe Log Continued

Probe: PR2

Site: Roundthorn Road, Middleton M24 1FT

Depth (m)	Blows/ 100mm	Blows/ 300mm (N value)	Diagram	Strength
			0 5 10 15 20 25 30 35 40	
8.1	----- 9		*****	
	4	22	*****	
	9		*****	
8.5	4		****	
	4	12	****	
	4		****	
	5		*****	
	5	15	*****	
9	5		*****	
	6	17	*****	
	6		*****	
	5		*****	
9.5	6	20	*****	
	9		*****	
	9		*****	
	10	28	*****	
	9		*****	
10	9		*****	
	10	29	*****	
	10		*****	
	9		*****	
	9	26	*****	
10.5	8		*****	
	8	25	*****	
	8		*****	
	9		*****	
	8	29	*****	
11	10		*****	
	11		*****	
	11	35	*****	
	12		*****	
11.5	12		*****	
	12	39	*****	
	13		*****	
	14		*****	
	14	41	*****	
12	13		*****	
Continued				

Dynamic Probe Log Continued

Probe: PR2

Site: Roundthorn Road, Middleton M24 1FT

Depth (m)	Blows/ 100mm	Blows/ 300mm (N value)	Diagram	Strength
			0 5 10 15 20 25 30 35 40	
12	-----		*****	
	18		*****	
	18	55	*****	
	19		*****	
	19		*****	
12.5	20	61	*****	

	22		*****	
	23		*****	
	24	72	*****	
	25		*****	
13	28		*****	

	32	99	*****	
	39		*****	
	45		*****	
		45		

very high

WORMS EYE LTD
DYNAMIC PROBE LOG

Site: Roundthorn Road, Middleton M24 1FT

Probe: PR3

Location: Towards centre of site

Date: 7th November 2019

Method: 63.5KG Weight with 750mm drop.

JSH

Depth (m)	Blows/ 100mm	Blows/ 300mm (N value)	Diagram	Strength
0	4	16	0 5 10 15 20 25 30 35 40 ***** ***** ***** *****	medium
0.5	4	13	***** *****	
	4	14	***** ***** *****	
1	5	15	***** *** *****	
	3	17	***** ***** *****	low/very low
1.5	7		*****	
	6		*****	
	6		*****	
	5		*****	medium
	2	5	** * **	
2	1	3	* * *	
	1		* *	
	1	5	* ** **	medium
2.5	2		***	
	3	10	*** ****	
	4	14	**** ***** *****	
3	4	13	***** ***** *****	medium
	4		*****	
3.5	5	16	***** ***** *****	
	6		*****	
	5	17	***** ***** *****	Continued
3.9	6		*****	

Dynamic Probe Log Continued

Probe: PR3

Site: Roundthorn Road, Middleton M24 1FT

Depth (m)	Blows/ 100mm	Blows/ 300mm (N value)	Diagram	Strength
			0 5 10 15 20 25 30 35 40	
3.9	-----			
4	6		*****	
	5	18	*****	
	7		*****	
	6		*****	
4.5	7	20	*****	
	7		*****	
	6		*****	
	6	19	*****	
	6		*****	
5	7		*****	
	8		*****	
	8	21	*****	
	5		*****	
	5		*****	
5.5	4	13	****	
	4		****	
	3		***	
	4	11	****	medium/high
	4		****	
	6		*****	
6	6	20	*****	
	8		*****	
	7		*****	
	7	21	*****	
	7		*****	
6.5	8		*****	
	7	24	*****	
	9		*****	
	8		*****	
	9	26	*****	
7	9		*****	
	9	24	*****	
	6		*****	
	6		*****	
7.5	4	14	****	
	4		****	
	4		****	
	4	13	****	
	4		****	
	5		*****	
8	6		*****	
	3	13	***	
8.1	4		****	
Continued				

Dynamic Probe Log Continued

Probe: PR3

Site: Roundthorn Road, Middleton M24 1FT

Depth (m)	Blows/ 100mm	Blows/ 300mm (N value)	Diagram	Strength
			0 5 10 15 20 25 30 35 40	
8.1	----- 5		*****	
	5	17	*****	
	7		*****	
8.5	8		*****	
	7	23	*****	
	8		*****	
	8		*****	
9	7	23	*****	
	8		*****	
	8		*****	
	9		*****	
9.5	9	29	*****	high
	11		*****	
	10		*****	
	9	27	*****	
	8		*****	
10	10		*****	
	11	30	*****	
	9		*****	
	8		*****	
	9	26	*****	
10.5	9		*****	
	12		*****	
	12	36	*****	
	12		*****	
	11		*****	
11	13	39	*****	
	15		*****	
	15		*****	
	18	51	*****	
	18		*****	
11.5	20		*****	very high
	22	65	*****	
	23		*****	
	24		*****	
	24	74	*****	
12	26		*****	
Continued				

Dynamic Probe Log Continued

Probe: PR3

Site: Roundthorn Road, Middleton M24 1FT

<u>Depth</u> <u>(m)</u>	<u>Blows/</u> <u>100mm</u>	<u>Blows/</u> <u>300mm</u> <u>(N value)</u>	<u>Diagram</u>	<u>Strength</u>
			0 5 10 15 20 25 30 35 40	
12	-----		*****	
	27		*****	
	29	85	*****	
	29		*****	very high
	30		*****	
12.5	31	97	*****	
	36		*****	

**WORMS EYE LTD
DYNAMIC PROBE LOG**

Site: Roundthorn Road, Middleton M24 1FT

Probe: PR4

Location: Towards northwest of site

Date: 7th November 2019

Method: 63.5KG Weight with 750mm drop.

JSH

Depth (m)	Blows/ 100mm	Blows/ 300mm (N value)	Diagram	Strength
0	2 3 3 4	8	0 5 10 15 20 25 30 35 40 ** *** *** ****	
0.5	1	6	*	
	1		*	
	1	3	*	low/very low
	1		*	
1	1		*	
	4	9	****	
	4		****	
	4		****	
1.5	6	10	*****	
	0			
	6		*****	
	6	19	*****	
	7		*****	
	6		*****	
2	2	13	**	

	5		*****	
	5	15	*****	
	5		*****	
2.5	6		*****	medium
		18	*****	
	6		*****	
	6		*****	
	6	18	*****	
3	6		*****	

	5	17	*****	
	6		*****	
	6		*****	
3.5	6	18	*****	

	6		*****	
	6	16	*****	
3.9	4		****	

Continued

Dynamic Probe Log Continued

Probe: PR4

Site: Roundthorn Road, Middleton M24 1FT

Depth (m)	Blows/ 100mm	Blows/ 300mm (N value)	Diagram	Strength
			0 5 10 15 20 25 30 35 40	
3.9	-----			
4	5		*****	
	6	17	*****	
	6		*****	
	6		*****	
	7	20	*****	
4.5	7		*****	
	7		*****	
	7	23	*****	
	8		*****	
	8		*****	
	8		*****	
5	9	20	*****	

	3		***	
	3	12	****	
	4		*****	
5.5	5		*****	
	5		*****	
	6	17	*****	
	6		*****	
	6		*****	
	7	22	*****	
6	7		*****	
	7		*****	
	7	21	*****	
	7		*****	
	8		*****	
6.5	8	23	*****	

	7		*****	
	8		*****	
	9	25	*****	
	8		*****	
7	8		*****	
		24	*****	
	8		*****	
	8		*****	
	9	26	*****	
7.5	8		*****	

	9	27	*****	
	9		*****	
	9		*****	
	8		*****	
8	9	24	*****	
8.1	7		*****	

medium

Continued

Dynamic Probe Log Continued

Probe: PR4

Site: Roundthorn Road, Middleton M24 1FT

Depth (m)	Blows/ 100mm	Blows/ 300mm (N value)	Diagram	Strength
			0 5 10 15 20 25 30 35 40	
8.1	----- 4		*****	
	3	10	***	
	3		***	
8.5	4		*****	
	5	14	*****	
	5		*****	
	6		*****	
	6	19	*****	
9	7		*****	
	8		*****	
	9	26	*****	
	9		*****	
	9		*****	
9.5	9	28	*****	
	10		*****	
	10		*****	
	11	32	*****	
	11		*****	
10	10		*****	
	11	30	*****	
	9		*****	
	8		*****	
	9	26	*****	
10.5	9		*****	
	10		*****	
	10	31	*****	
	11		*****	
	12		*****	
11	12	37	*****	
	13		*****	
	13		*****	
	14	41	*****	
	14		*****	
11.5	14		*****	
	15	45	*****	
	16		*****	
	16		*****	
	16	49	*****	
12	17		*****	
Continued				

Dynamic Probe Log Continued

Probe: PR4

Site: Roundthorn Road, Middleton M24 1FT

Depth (m)	Blows/ 100mm	Blows/ 300mm (N value)	Diagram	Strength
			0 5 10 15 20 25 30 35 40	
12	-----		*****	
	19		*****	
	20	61	*****	
	22		*****	
	23		*****	
12.5	24	72	*****	
	25		*****	
	28		*****	
	28	85	*****	
	29		*****	
13	30		*****	
	32	102	*****	
	40		*****	
				very high

Cannon House, 52 Bank Parade
Burnley, Lancashire, BB11 1TS

Site
Ramsden Farm, Roundthorn Road, Middleton, Manchester

**Borehole
Number**
RC1

Machine :	Casing Diameter	Ground Level (mOD)	Client	Job Number M241FT
Flush :				
Core Dia:				
Method :	Location West of site	Dates 07/11/2019- 08/11/2019	Engineer M&J	Sheet 1/3

[illegible]

Remarks	Scale (approx)	Logged By
	1:100	MJ/JSH
	Figure No. M241FT.RC1	

WORMS EYE GEOTECHNICAL

Cannon House, 52 Bank Parade
Burnley, Lancashire, BB11 1TS

Site

Ramsden Farm, Roundthorn Road, Middleton, Manchester

Borehole Number RC1
--

Machine :

Flush :

Core Dia:

Method :

Casing Diameter

Ground Level (mOD)

Client

Job Number
M241FT

Location

West of site

Dates

07/11/2019-
08/11/2019

Engineer

M&J

Sheet
2/3

2/3

Depth
(m)

TCR

SCR

RQD

FI

Field Records

Level
(mOD)

Depth
(m)
(Thickness)

Description

Legend

Water

(4.50)

21.30

(0.80)

22.10

(9.30)

31.40

(0.60)
32.00

32.00

(11.00)

Remarks

Scale (approx)

1:100

Logged
By

MJ/JSH

Figure No.

M241FT.RC1

WORMS EYE GEOTECHNICAL						Cannon House, 52 Bank Parade Burnley, Lancashire, BB11 1TS		Site Ramsden Farm, Roundthorn Road, Middleton, Manchester		Borehole Number RC1	
Machine :			Casing Diameter			Ground Level (mOD)		Client		Job Number M241FT	
Flush :								Engineer		Sheet	
Core Dia:			Location West of site			Dates 07/11/2019- 08/11/2019		M&J		3/3	
Method :											
Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend	Water
							(11.00)				
							43.00	Black MUDSTONE			
							(1.90)				
							44.90	Grey MUDSTONE			
							(5.10)				
							50.00	Complete at 50.00m			
Remarks									Scale (approx) 1:100	Logged By MJ/JSH	
									Figure No. M241FT.RC1		

Cannon House, 52 Bank Parade
Burnley, Lancashire, BB11 1TS

Site
Ramsden Farm, Roundthorn Road, Middleton, Manchester

**Borehole
Number**
RC2

Machine :	Casing Diameter	Ground Level (mOD)	Client	Job Number M241FT
Flush :				
Core Dia:				
Method :	Location Northwest corner	Dates 07/11/2019- 08/11/2019	Engineer M&J	Sheet 1/2

[illegible]

Remarks	Scale (approx)	Logged By
	1:100	MJ/JSH
	Figure No. M241FT.RC2	

WORMS EYE GEOTECHNICAL						Cannon House, 52 Bank Parade Burnley, Lancashire, BB11 1TS		Site Ramsden Farm, Roundthorn Road, Middleton, Manchester		Borehole Number RC2	
Machine :			Casing Diameter			Ground Level (mOD)		Client		Job Number M241FT	
Flush :								Engineer		Sheet	
Core Dia:			Location Northwest corner			Dates 07/11/2019- 08/11/2019		M&J		2/2	
Method :											
Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend	Water
							(5.50)				
							22.00 (0.80)	COAL intact and firm			
							22.80	Grey MUDSTONE			
							(7.40)				
							30.20 (0.80)	COAL intact and firm			
							31.00	Grey MUDSTONE			
							(2.00)				
							33.00	Complete at 33.00m			
Remarks									Scale (approx) 1:100	Logged By MJ/JSH	
									Figure No. M241FT.RC2		

WORMS EYE GEOTECHNICAL

Cannon House, 52 Bank Parade
Burnley, Lancashire, BB11 1TS

Site

Ramsden Farm, Roundthorn Road, Middleton, Manchester

Borehole
Number
RC3

Machine :

Flush :

Core Dia:

Method :

Casing Diameter

Ground Level (mOD)

Client

Job Number
M241FT

Location

Towards centre of site

Dates

07/11/2019-
08/11/2019

Engineer

M&J

Sheet

 $\frac{1}{2}$ [illegible]

Remarks

Scale (approx)

1:100

Logged
By

MJ/JSH

Figure No.

M241FT.RC3

WORMS EYE GEOTECHNICAL						Cannon House, 52 Bank Parade Burnley, Lancashire, BB11 1TS		Site Ramsden Farm, Roundthorn Road, Middleton, Manchester		Borehole Number RC3	
Machine :			Casing Diameter			Ground Level (mOD)		Client		Job Number M241FT	
Flush :										Sheet 2/2	
Core Dia:			Location Towards centre of site			Dates 07/11/2019- 08/11/2019		Engineer M&J			
Method :											
Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend	Water
							(3.90)				
							23.10 (0.60) 23.70	COAL intact and firm			
								Grey MUDSTONE			
							(5.80)				
							29.50 (0.80) 30.30	COAL intact and firm			
								Grey MUDSTONE			
							(2.70)				
							33.00	Complete at 33.00m			
Remarks									Scale (approx) 1:100	Logged By MJ/JSH	
									Figure No. M241FT.RC3		

Cannon House, 52 Bank Parade
Burnley, Lancashire, BB11 1TS

Site
Ramsden Farm, Roundthorn Road, Middleton, Manchester

**Borehole
Number**
RC4

Machine :	Casing Diameter	Ground Level (mOD)	Client	Job Number M241FT
Flush :				
Core Dia:				
Method :	Location Centre, south	Dates 07/11/2019- 08/11/2019	Engineer M&J	Sheet 1/2

[illegible]

Remarks	Scale (approx)	Logged By
	1:100	MJ/JSH
Figure No.		M241FT.RC4

WORMS EYE GEOTECHNICAL						Cannon House, 52 Bank Parade Burnley, Lancashire, BB11 1TS		Site Ramsden Farm, Roundthorn Road, Middleton, Manchester		Borehole Number RC4	
Machine :			Casing Diameter			Ground Level (mOD)		Client		Job Number M241FT	
Flush :										Sheet 2/2	
Core Dia:			Location Centre, south			Dates 07/11/2019- 08/11/2019		Engineer M&J			
Method :											
Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend	Water
							(7.20)				
							25.20 (1.00) 26.20	Black MUDSTONE			
								Grey MUDSTONE			
							(4.10)				
							30.30 (0.70) 31.00	COAL intact and firm			
								Grey MUDSTONE			
							(4.20)				
							35.20 (0.80) 36.00	COAL intact and firm			
								Grey MUDSTONE			
							(3.00)				
					Complete at 39.00 metres		39.00				
Remarks									Scale (approx) 1:100	Logged By MJ/JSH	
									Figure No. M241FT.RC4		

Cannon House, 52 Bank Parade
Burnley, Lancashire, BB11 1TS

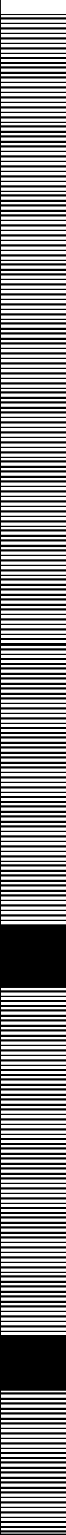
Site
Ramsden Farm, Roundthorn Road, Middleton, Manchester

**Borehole
Number**
RC5

Machine :	Casing Diameter	Ground Level (mOD)	Client	Job Number M241FT
Flush :				
Core Dia:				
Method :	Location Towards centre. west	Dates 07/11/2019- 08/11/2019	Engineer M&J	Sheet 1/2

[illegible]

Remarks	Scale (approx)	Logged By
	1:100	MJ/JSH
Figure No. M241FT.RC5		

WORMS EYE GEOTECHNICAL			Cannon House, 52 Bank Parade Burnley, Lancashire, BB11 1TS					Site Ramsden Farm, Roundthorn Road, Middleton, Manchester		Borehole Number RC5		
Machine : Flush : Core Dia : Method :			Casing Diameter			Ground Level (mOD)		Client			Job Number M241FT	
			Location Towards centre. west			Dates 07/11/2019- 08/11/2019		Engineer M&J			Sheet 2/2	
Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description			Legend	Water
												
							(10.50)					
							27.00	Black MUDSTONE				
							(1.30)					
							28.30	Grey MUDSTONE				
							(3.70)					
32.00	COAL intact and firm											
(0.80)												
32.80	Grey MUDSTONE											
(4.60)												

Concept Life Sciences

Certificate of Analysis

Hadfield House
Hadfield Street
Cornbrook
Manchester
M16 9FE
Tel : 0161 874 2400
Fax : 0161 874 2468

Report Number: 823621-1

Date of Report: 07-Jun-2019

Customer: Worms Eye Ltd
Cannon House
52
Bank Parade
Burnley
Lancashire
BB11 1TS

Customer Contact: Mr Stuart Hartley

Customer Job Reference:

Customer Site Reference: Roundthorn Road, Middleton

Date Job Received at Concept: 22-May-2019

Date Analysis Started: 23-May-2019

Date Analysis Completed: 07-Jun-2019

The results reported relate to samples received in the laboratory and may not be representative of a whole batch.

Customers are responsible for information provided where, if incorrect, it could affect the validity of the results.

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

This report should not be reproduced except in full without the written approval of the laboratory

Tests covered by this certificate were conducted in accordance with Concept Life Sciences SOPs

All results have been reviewed in accordance with QMSection 15 of the Concept Life Sciences, Analytical Services Quality Manual



1549

Report checked
and authorised by :
Jack Nagy
Customer Service Advisor

Issued by :
Jack Nagy
Customer Service Advisor



Concept Reference: 823621									
Project Site: Roundthorn Road, Middleton									
Customer Reference:									
Soil		Analysed as Soil							
Wormseye TPH (CWG)									
Concept Reference					823621 001	823621 002	823621 003	823621 004	823621 005
Customer Sample Reference					THA	THB	THD	THE	THG
Depth					0.30	0.10	0.25	0.30	0.15
Date Sampled					21-MAY-2019	21-MAY-2019	21-MAY-2019	21-MAY-2019	21-MAY-2019
Determinand	Method	Test Sample	LOD	Units					
Benzene	T54	AR	0.001	mg/kg	<0.002 ^(110,13)	<0.001 ⁽¹³⁾	<0.001 ⁽¹³⁾	<0.001 ⁽¹³⁾	<0.002 ^(13,110)
Toluene	T54	AR	0.001	mg/kg	<0.002 ⁽¹¹⁰⁾	<0.001	<0.001	<0.001	<0.002 ⁽¹¹⁰⁾
EthylBenzene	T54	AR	0.001	mg/kg	<0.002 ⁽¹¹⁰⁾	<0.001	<0.001	<0.001	<0.002 ⁽¹¹⁰⁾
M/P Xylene	T54	AR	0.001	mg/kg	<0.002 ⁽¹¹⁰⁾	<0.001	<0.001	<0.001	<0.002 ⁽¹¹⁰⁾
O Xylene	T54	AR	0.001	mg/kg	<0.002 ⁽¹¹⁰⁾	<0.001	<0.001	<0.001	<0.002 ⁽¹¹⁰⁾
Methyl tert-Butyl Ether	T54	AR	0.001	mg/kg	<0.002 ⁽¹¹⁰⁾	<0.001	<0.001	<0.001	<0.002 ⁽¹¹⁰⁾
TPH (C5-C6 aliphatic)	T54	AR	0.010	mg/kg	<0.020 ⁽¹¹⁰⁾	<0.010	<0.010	<0.010	<0.020 ⁽¹¹⁰⁾
TPH (C6-C8 aliphatic)	T54	AR	0.010	mg/kg	<0.020 ⁽¹¹⁰⁾	<0.010	<0.010	<0.010	<0.020 ⁽¹¹⁰⁾
TPH (C8-C10 aliphatic)	T54	AR	0.010	mg/kg	<0.020 ⁽¹¹⁰⁾	<0.010	<0.010	<0.010	<0.020 ⁽¹¹⁰⁾
TPH (C10-C12 aliphatic)	T909	AR	1	mg/kg	<10 ^(13,100)	<1 ⁽¹³⁾	<1 ⁽¹³⁾	<1 ⁽¹³⁾	<1 ⁽¹³⁾
TPH (C12-C16 aliphatic)	T909	AR	1	mg/kg	<10 ^(13,100)	<1 ⁽¹³⁾	<1 ⁽¹³⁾	<1 ⁽¹³⁾	<1 ⁽¹³⁾
TPH (C16-C21 aliphatic)	T909	AR	1	mg/kg	<10 ^(13,100)	<1 ⁽¹³⁾	<1 ⁽¹³⁾	<1 ⁽¹³⁾	<1 ⁽¹³⁾
TPH (C21-C35 aliphatic)	T909	AR	2	mg/kg	<10 ^(100,13)	2 ⁽¹³⁾	3 ⁽¹³⁾	<2 ⁽¹³⁾	5 ⁽¹³⁾
TPH (Aliphatic) total	T85	AR			<10 ^(100,13)	2 ⁽¹³⁾	3 ⁽¹³⁾	N.D. ⁽¹³⁾	5 ⁽¹³⁾
TPH (C6-C7 aromatic)	T54	AR	0.010	mg/kg	<0.020 ⁽¹¹⁰⁾	<0.010	<0.010	<0.010	<0.020 ⁽¹¹⁰⁾
TPH (C7-C8 aromatic)	T54	AR	0.010	mg/kg	<0.020 ⁽¹¹⁰⁾	<0.010	<0.010	<0.010	<0.020 ⁽¹¹⁰⁾
TPH (C8-C10 aromatic)	T54	AR	0.010	mg/kg	<0.020 ⁽¹¹⁰⁾	<0.010	<0.010	<0.010	<0.020 ⁽¹¹⁰⁾
TPH (C10-C12 aromatic)	T909	AR	2	mg/kg	<10 ^(100,13)	<2 ⁽¹³⁾	<2 ⁽¹³⁾	<2 ⁽¹³⁾	<2 ⁽¹³⁾
TPH (C12-C16 aromatic)	T909	AR	1	mg/kg	<10 ^(13,100)	<1 ⁽¹³⁾	<1 ⁽¹³⁾	<1 ⁽¹³⁾	2 ⁽¹³⁾
TPH (C16-C21 aromatic)	T909	AR	1	mg/kg	37 ⁽¹³⁾	2 ⁽¹³⁾	2 ⁽¹³⁾	1 ⁽¹³⁾	4 ⁽¹³⁾
TPH (C21-C35 aromatic)	T909	AR	1	mg/kg	69 ⁽¹³⁾	7 ⁽¹³⁾	8 ⁽¹³⁾	1 ⁽¹³⁾	9 ⁽¹³⁾
TPH (Aromatic) total	T85	AR			110 ⁽¹³⁾	9 ⁽¹³⁾	10 ⁽¹³⁾	2 ⁽¹³⁾	15 ⁽¹³⁾
TPH (Aliphatic+Aromatic) (sum)	T85	AR			110 ⁽¹³⁾	11 ⁽¹³⁾	13 ⁽¹³⁾	2 ⁽¹³⁾	20 ⁽¹³⁾

Concept Reference: 823621 Project Site: Roundthorn Road, Middleton Customer Reference: Soil Analysed as Soil Wormseye TPH (CWG)					
Concept Reference					823621 006
Customer Sample Reference					THH
Depth					0.50
Date Sampled					21-MAY-2019
Determinand	Method	Test Sample	LOD	Units	
Benzene	T54	AR	0.001	mg/kg	<0.001 ⁽¹³⁾
Toluene	T54	AR	0.001	mg/kg	<0.001
EthylBenzene	T54	AR	0.001	mg/kg	<0.001
M/P Xylene	T54	AR	0.001	mg/kg	<0.001
O Xylene	T54	AR	0.001	mg/kg	<0.001
Methyl tert-Butyl Ether	T54	AR	0.001	mg/kg	<0.001
TPH (C5-C6 aliphatic)	T54	AR	0.010	mg/kg	<0.010
TPH (C6-C8 aliphatic)	T54	AR	0.010	mg/kg	<0.010
TPH (C8-C10 aliphatic)	T54	AR	0.010	mg/kg	<0.010
TPH (C10-C12 aliphatic)	T909	AR	1	mg/kg	<1 ⁽¹³⁾
TPH (C12-C16 aliphatic)	T909	AR	1	mg/kg	<1 ⁽¹³⁾
TPH (C16-C21 aliphatic)	T909	AR	1	mg/kg	<1 ⁽¹³⁾
TPH (C21-C35 aliphatic)	T909	AR	2	mg/kg	<2 ⁽¹³⁾
TPH (Aliphatic) total	T85	AR			N.D. ⁽¹³⁾
TPH (C6-C7 aromatic)	T54	AR	0.010	mg/kg	<0.010
TPH (C7-C8 aromatic)	T54	AR	0.010	mg/kg	<0.010
TPH (C8-C10 aromatic)	T54	AR	0.010	mg/kg	<0.010
TPH (C10-C12 aromatic)	T909	AR	2	mg/kg	<2 ⁽¹³⁾
TPH (C12-C16 aromatic)	T909	AR	1	mg/kg	<1 ⁽¹³⁾
TPH (C16-C21 aromatic)	T909	AR	1	mg/kg	1 ⁽¹³⁾
TPH (C21-C35 aromatic)	T909	AR	1	mg/kg	<1 ⁽¹³⁾
TPH (Aromatic) total	T85	AR			1 ⁽¹³⁾
TPH (Aliphatic+Aromatic) (sum)	T85	AR			1 ⁽¹³⁾

Concept Reference: 823621							
Project Site: Roundthorn Road, Middleton							
Customer Reference:							
Soil		Analysed as Soil					
TPH C5-C10 (ali/aro + sum)							
Concept Reference					823621 008	823621 009	823621 010
Customer Sample Reference					THG	THI	THJ
Depth					0.60	0.90	0.90
Date Sampled					21-MAY-2019	21-MAY-2019	21-MAY-2019
Determinand	Method	Test Sample	LOD	Units			
TPH (C5-C6 aliphatic)	T54	AR	0.010	mg/kg	<0.010	<0.010	<0.020 ⁽¹¹⁰⁾
TPH (C6-C8 aliphatic)	T54	AR	0.010	mg/kg	<0.010	<0.010	<0.020 ⁽¹¹⁰⁾
TPH (C8-C10 aliphatic)	T54	AR	0.010	mg/kg	<0.010	<0.010	<0.020 ⁽¹¹⁰⁾
TPH (C6-C7 aromatic)	T54	AR	0.010	mg/kg	<0.010	<0.010	<0.020 ⁽¹¹⁰⁾
TPH (C7-C8 aromatic)	T54	AR	0.010	mg/kg	<0.010	<0.010	<0.020 ⁽¹¹⁰⁾
TPH (C8-C10 aromatic)	T54	AR	0.010	mg/kg	<0.010	<0.010	<0.020 ⁽¹¹⁰⁾
Total Petroleum Hydrocarbons (C5 - C10 aliphatic/aromatic)	T85	AR	0.010	mg/kg	<0.010	<0.010	<0.020 ⁽¹¹⁰⁾

Concept Reference: 823621							
Project Site: Roundthorn Road, Middleton							
Customer Reference:							
Soil		Analysed as Soil					
TPH C10-C16 (ali/aro + sum)							
Concept Reference				823621 008	823621 009	823621 010	
Customer Sample Reference				THG	THI	THJ	
Depth				0.60	0.90	0.90	
Date Sampled				21-MAY-2019	21-MAY-2019	21-MAY-2019	
Determinand			Method	Test Sample	LOD	Units	
TPH (C10-C12 aliphatic)			T909	AR	1	mg/kg	<1 ⁽¹³⁾
TPH (C12-C16 aliphatic)			T909	AR	1	mg/kg	<1 ⁽¹³⁾
TPH (C10-C12 aromatic)			T909	AR	2	mg/kg	<2 ⁽¹³⁾
TPH (C12-C16 aromatic)			T909	AR	1	mg/kg	<1 ⁽¹³⁾
Total Petroleum Hydrocarbons (C10-C16 aliphatic/aromatic)			T85	AR	1	mg/kg	<1 ⁽¹³⁾

Concept Reference: 823621							
Project Site: Roundthorn Road, Middleton							
Customer Reference:							
Soil		Analysed as Soil					
TPH C16-C40 (ali/aro + sum)							
Concept Reference					823621 008	823621 009	823621 010
Customer Sample Reference					THG	THI	THJ
Depth					0.60	0.90	0.90
Date Sampled					21-MAY-2019	21-MAY-2019	21-MAY-2019
Determinand	Method	Test Sample	LOD	Units			
TPH (C16-C21 aliphatic)	T909	AR	1	mg/kg	<1 ⁽¹³⁾	<1 ⁽¹³⁾	4 ⁽¹³⁾
TPH (C21-C35 aliphatic)	T909	AR	2	mg/kg	<2 ⁽¹³⁾	<2 ⁽¹³⁾	7 ⁽¹³⁾
TPH (C35-C40 aliphatic)	T909	AR	1	mg/kg	<1 ⁽¹³⁾	<1 ⁽¹³⁾	2 ⁽¹³⁾
TPH (C16-C21 aromatic)	T909	AR	1	mg/kg	<1 ⁽¹³⁾	<1 ⁽¹³⁾	20 ⁽¹³⁾
TPH (C21-C35 aromatic)	T909	AR	1	mg/kg	<1 ⁽¹³⁾	1 ⁽¹³⁾	46 ⁽¹³⁾
TPH (C35-C40 aromatic)	T909	AR	1	mg/kg	<1 ⁽¹³⁾	<1 ⁽¹³⁾	<1 ⁽¹³⁾
Total Petroleum Hydrocarbons (C16-C40 aliphatic/aromatic)	T85	AR	1	mg/kg	<1 ⁽¹³⁾	1 ⁽¹³⁾	79 ⁽¹³⁾

Concept Reference: 823621							
Project Site: Roundthorn Road, Middleton							
Customer Reference:							
Soil		Analysed as Soil					
UU Pipe Selection Risk Assess Sum (UKWIR)							
Concept Reference					823621 008	823621 009	823621 010
Customer Sample Reference					THG	THI	THJ
Depth					0.60	0.90	0.90
Date Sampled					21-MAY-2019	21-MAY-2019	21-MAY-2019
Determinand	Method	Test Sample	LOD	Units			
Cresols and Chlorinated Phenols (Total)	T85	AR	0.10	mg/kg	<0.10	<0.10	0.43
SVOC screen	T16	AR	0.1	mg/kg	<0.1	<0.1	<0.1
Tertiary amyl methyl ether	T54	AR	0.005	mg/kg	<0.005	<0.005	<0.010 ⁽¹¹⁰⁾
Total SVOC (exc PAH & Specific Phenols)	T85	AR	0.1	mg/kg	<0.2 ⁽¹⁶²⁾	<0.2 ⁽¹⁶²⁾	0.6
VOC Screen (Extra Peaks)	T54	AR	0.10	mg/kg	<0.10	<0.10	<0.20 ⁽¹¹⁰⁾

Concept Reference: 823621 Project Site: Roundthorn Road, Middleton Customer Reference:									
Soil Analysed as Soil Organochlorine insecticides									
Concept Reference					823621 001	823621 003	823621 004	823621 007	
Customer Sample Reference					THA	THD	THE	THH	
Depth					0.30	0.25	0.30	0.10	
Date Sampled					21-MAY-2019	21-MAY-2019	21-MAY-2019	21-MAY-2019	
Determinand	Method	Test Sample	LOD	Units					
Hexachlorocyclohexane (sum of alpha, beta and gamma)	T16	AR	0.01	mg/kg	<0.10 ⁽⁹⁾	<0.01	<0.01	<0.01	
Hexachlorobenzene	T1	AR	0.01	mg/kg	<0.10 ⁽⁹⁾	<0.01	<0.01	<0.01	
Heptachlor	T16	AR	0.01	mg/kg	<0.10 ⁽⁹⁾	<0.01	<0.01	<0.01	
Aldrin	T16	AR	0.01	mg/kg	<0.10 ⁽⁹⁾	<0.01	<0.01	<0.01	
Heptachlor epoxide	T16	AR	0.01	mg/kg	<0.10 ⁽⁹⁾	<0.01	<0.01	<0.01	
Chlordane	T16	AR	0.01	mg/kg	<0.10 ⁽⁹⁾	<0.01	<0.01	<0.01	
Endosulphan	T16	AR	0.01	mg/kg	<0.10 ⁽⁹⁾	<0.01	<0.01	<0.01	
DDE	T16	AR	0.01	mg/kg	0.12	<0.01	<0.01	<0.01	
Dieldrin	T16	AR	0.01	mg/kg	<0.10 ⁽⁹⁾	<0.01	<0.01	<0.01	
Endrin	T16	AR	0.01	mg/kg	<0.10 ⁽⁹⁾	<0.01	<0.01	<0.01	
DDD	T16	AR	0.01	mg/kg	<0.10 ⁽⁹⁾	<0.01	<0.01	<0.01	
DDT	T16	AR	0.01	mg/kg	0.32	<0.01	<0.01	<0.01	

Concept Reference: 823621									
Project Site: Roundthorn Road, Middleton									
Customer Reference:									
Soil					Analysed as Soil				
Organophosphorous insecticides									
Concept Reference					823621 001	823621 003	823621 004	823621 007	
Customer Sample Reference					THA	THD	THE	THH	
Depth					0.30	0.25	0.30	0.10	
Date Sampled					21-MAY-2019	21-MAY-2019	21-MAY-2019	21-MAY-2019	
Determinand	Method	Test Sample	LOD	Units					
Dichlorvos	T16	AR	0.01	mg/kg	<0.10 ⁽⁹⁾	<0.01	<0.01	<0.01	
Mevinphos	T16	AR	0.01	mg/kg	<0.10 ⁽⁹⁾	<0.01	<0.01	<0.01	
Dimethoate	T16	AR	0.01	mg/kg	<0.10 ⁽⁹⁾	<0.01	<0.01	<0.01	
Diazinon	T16	AR	0.01	mg/kg	<0.10 ⁽⁹⁾	<0.01	<0.01	<0.01	
Pirimiphos methyl	T16	AR	0.01	mg/kg	<0.10 ⁽⁹⁾	<0.01	<0.01	<0.01	
Malathion	T16	AR	0.01	mg/kg	<0.10 ⁽⁹⁾	<0.01	<0.01	<0.01	
Fenitrothion	T16	AR	0.01	mg/kg	<0.10 ⁽⁹⁾	<0.01	<0.01	<0.01	
Parathion	T16	AR	0.01	mg/kg	<0.10 ⁽⁹⁾	<0.01	<0.01	<0.01	
Azinphos methyl	T16	AR	0.01	mg/ka	<0.10 ⁽⁹⁾	<0.01	<0.01	<0.01	

Customer Reference:

Soil	Analysed as Soil
United Utilities Total VOC Suite	

Concept Reference					832621.008	832621.009	832621.010
Customer Sample Reference					THG	THI	THJ
Depth					0.60	0.90	0.90
Date Sampled					21-MAY-2019	21-MAY-2019	21-MAY-2019
Determinand	Method	Test Sample	LOD	Units			
1,1,1,2-Tetrachloroethane	T54	AR	0.005	mg/kg	<0.005	<0.005	<0.010 ⁽¹¹⁰⁾
1,1,1-Trichloroethane	T54	AR	0.005	mg/kg	<0.005	<0.005	<0.010 ⁽¹¹⁰⁾
1,1,2,2-Tetrachloroethane	T54	AR	0.005	mg/kg	<0.005	<0.005	<0.010 ⁽¹¹⁰⁾
1,1,2-Trichloroethane	T54	AR	0.005	mg/kg	<0.005	<0.005	<0.010 ⁽¹¹⁰⁾
1,1,2-Trichloroethylene	T54	AR	0.005	mg/kg	<0.005	<0.005	<0.010 ⁽¹¹⁰⁾
1,1-Dichloroethane	T54	AR	0.005	mg/kg	<0.005	<0.005	<0.010 ⁽¹¹⁰⁾
1,1-Dichloroethylene	T54	AR	0.005	mg/kg	<0.005	<0.005	<0.010 ⁽¹¹⁰⁾
1,1-Dichloropropene	T54	AR	0.005	mg/kg	<0.005	<0.005	<0.010 ⁽¹¹⁰⁾
1,2,3-Trichloropropane	T54	AR	0.005	mg/kg	<0.005	<0.005	<0.010 ⁽¹¹⁰⁾
1,2,4-Trimethylbenzene	T54	AR	0.005	mg/kg	<0.005	<0.005	<0.010 ⁽¹¹⁰⁾
1,2-dibromoethane	T54	AR	0.005	mg/kg	<0.005	<0.005	<0.010 ⁽¹¹⁰⁾
1,2-Dichlorobenzene	T54	AR	0.005	mg/kg	<0.005	<0.005	<0.010 ⁽¹¹⁰⁾
1,2-Dichloroethane	T54	AR	0.005	mg/kg	<0.005	<0.005	<0.010 ⁽¹¹⁰⁾
1,2-Dichloropropane	T54	AR	0.005	mg/kg	<0.005	<0.005	<0.010 ⁽¹¹⁰⁾
1,3,5-Trimethylbenzene	T54	AR	0.005	mg/kg	<0.005	<0.005	<0.010 ⁽¹¹⁰⁾
1,3-Dichlorobenzene	T54	AR	0.005	mg/kg	<0.005	<0.005	<0.010 ⁽¹¹⁰⁾
1,3-Dichloropropane	T54	AR	0.005	mg/kg	<0.005	<0.005	<0.010 ⁽¹¹⁰⁾
1,4-Dichlorobenzene	T54	AR	0.005	mg/kg	<0.005	<0.005	<0.010 ⁽¹¹⁰⁾
2,2-Dichloropropane	T54	AR	0.005	mg/kg	<0.005	<0.005	<0.010 ⁽¹¹⁰⁾
2-Chlorotoluene	T54	AR	0.005	mg/kg	<0.005	<0.005	<0.010 ⁽¹¹⁰⁾
4-Chlorotoluene	T54	AR	0.005	mg/kg	<0.005	<0.005	<0.010 ⁽¹¹⁰⁾
Bromobenzene	T54	AR	0.005	mg/kg	<0.005	<0.005	<0.010 ⁽¹¹⁰⁾
Bromochloromethane	T54	AR	0.005	mg/kg	<0.005	<0.005	<0.010 ⁽¹¹⁰⁾
Bromodichloromethane	T54	AR	0.005	mg/kg	<0.005	<0.005	<0.010 ⁽¹¹⁰⁾
Bromoform	T54	AR	0.005	mg/kg	<0.005	<0.005	<0.010 ⁽¹¹⁰⁾
Bromomethane	T54	AR	0.005	mg/kg	<0.005	<0.005	<0.010 ⁽¹¹⁰⁾
Carbon tetrachloride	T54	AR	0.005	mg/kg	<0.005	<0.005	<0.010 ⁽¹¹⁰⁾
Chlorobenzene	T54	AR	0.005	mg/kg	<0.005	<0.005	<0.010 ⁽¹¹⁰⁾
Chlorodibromomethane	T54	AR	0.005	mg/kg	<0.005	<0.005	<0.010 ⁽¹¹⁰⁾
Chloroethane	T54	AR	0.005	mg/kg	<0.005	<0.005	<0.010 ⁽¹¹⁰⁾
Chloroform	T54	AR	0.005	mg/kg	<0.005	<0.005	<0.010 ⁽¹¹⁰⁾
Chloromethane	T54	AR	0.005	mg/kg	<0.005	<0.005	<0.010 ⁽¹¹⁰⁾
Cis-1,2-Dichloroethylene	T54	AR	0.005	mg/kg	<0.005	<0.005	<0.010 ⁽¹¹⁰⁾
Cis-1,3-Dichloropropene	T54	AR	0.005	mg/kg	<0.005	<0.005	<0.010 ⁽¹¹⁰⁾
Dibromomethane	T54	AR	0.005	mg/kg	<0.005	<0.005	<0.010 ⁽¹¹⁰⁾
Dichlorodifluoromethane	T54	AR	0.005	mg/kg	<0.005	<0.005	<0.010 ⁽¹¹⁰⁾
Isopropyl benzene	T54	AR	0.005	mg/kg	<0.005	<0.005	<0.010 ⁽¹¹⁰⁾
Methylene Chloride	T54	AR	0.050	mg/kg	<0.050	<0.050	<0.10 ⁽¹¹⁰⁾
n-Propylbenzene	T54	AR	0.005	mg/kg	<0.005	<0.005	<0.010 ⁽¹¹⁰⁾
Naphthalene	T54	AR	0.050	mg/kg	<0.050	<0.050	<0.10 ⁽¹¹⁰⁾
p-Isopropyltoluene	T54	AR	0.005	mg/kg	<0.005	<0.005	<0.010 ⁽¹¹⁰⁾
S-Butylbenzene	T54	AR	0.005	mg/kg	<0.005	<0.005	<0.010 ⁽¹¹⁰⁾
Styrene	T54	AR	0.005	mg/kg	<0.005	<0.005	<0.010 ⁽¹¹⁰⁾
T-Butylbenzene	T54	AR	0.005	mg/kg	<0.005	<0.005	<0.010 ⁽¹¹⁰⁾
Tetrachloroethene	T54	AR	0.005	mg/kg	<0.005	<0.005	<0.010 ⁽¹¹⁰⁾
Trans-1,2-Dichloroethene	T54	AR	0.005	mg/kg	<0.005	<0.005	<0.010 ⁽¹¹⁰⁾
Trans-1,3-Dichloropropene	T54	AR	0.005	mg/kg	<0.005	<0.005	<0.010 ⁽¹¹⁰⁾
Trichlorofluoromethane	T54	AR	0.005	mg/kg	<0.005	<0.005	<0.010 ⁽¹¹⁰⁾
Vinyl chloride	T54	AR	0.005	mg/kg	<0.005	<0.005	<0.010 ⁽¹¹⁰⁾
VOC(Total)	T85	AR	0.005	mg/kg	<0.005	<0.005	<0.005

Soil	Analysed as Soil
Semi-Volatile Organic Compounds (USEPA 625)	

823621-1

Concept Reference: 823621 Project Site: Roundthorn Road, Middleton Customer Reference: Soil Analysed as Soil Semi-Volatile Organic Compounds (USEPA 625)							
Concept Reference		823621 008	823621 009	823621 010			
Customer Sample Reference		THG	THI	THJ			
Depth		0.60	0.90	0.90			
Date Sampled		21-MAY-2019	21-MAY-2019	21-MAY-2019			
Determinand	Method	Test Sample	LOD	Units			
Benzo(ghi)Perylene	T16	AR	0.1	mg/kg	<0.1	<0.1	0.4

Concept Reference: 823621									
Project Site: Roundthorn Road, Middleton									
Customer Reference:									
Soil					Analysed as Soil				
Miscellaneous									
Concept Reference				823621 001	823621 002	823621 003	823621 004	823621 005	
Customer Sample Reference				THA	THB	THD	THE	THG	
Depth				0.30	0.10	0.25	0.30	0.15	
Date Sampled				21-MAY-2019	21-MAY-2019	21-MAY-2019	21-MAY-2019	21-MAY-2019	
Determinand	Method	Test Sample	LOD	Units					
Asbestos	T27	AR			N.D.	N.D.	N.D.	N.D.	N.D.

Concept Reference: 823621 Project Site: Roundthorn Road, Middleton Customer Reference: Soil Analysed as Soil Miscellaneous					
Concept Reference		823621 006			
Customer Sample Reference		THH			
Depth		0.50			
Date Sampled		21-MAY-2019			
Determinand	Method	Test Sample	LOD	Units	
Asbestos	T27	AR			N.D.

Index to symbols used in 823621-1

Value	Description
A40	Assisted dried < 40C
AR	As Received
N.D.	Not Detected
162	LOD determined by matrix spike recovery
13	Results have been blank corrected.
9	LOD raised due to dilution of sample
110	LOD raised due to low internal standard recovery.
413	The associated QC has failed performance criteria for this compound and the result is indicative only. Result is non accredited.
100	LOD determined by sample aliquot used for analysis
S	Analysis was subcontracted
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Method Index

Value	Description
T1	GC/MS (HR)
T85	Calc
T909	GCxGC
T149	GC/MS (SIR)
T21	OX/IR

T242	2:1 Extraction/ICP/OES (TRL 447 T1)
T287	Calc TOC/0.58
T2	Grav
T4	Colorimetry
T6	ICP/OES
T7	Probe
T102	ICP/OES (HCl extract)
T16	GC/MS
T27	PLM
T54	GC/MS (Headspace)

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	Concept References
Cresols and Chlorinated Phenols (Total)	T85	AR	0.10	mg/kg	N	008-010
SVOC screen	T16	AR	0.1	mg/kg	N	008-010
Tertiary amyl methyl ether	T54	AR	0.005	mg/kg	U	008-010
Total SVOC (exc PAH & Specific Phenols)	T85	AR	0.1	mg/kg	U	008-010
VOC Screen (Extra Peaks)	T54	AR	0.10	mg/kg	N	008-010
Phenol	T16	AR	0.1	mg/kg	U	008-010
Bis (2-chloroethyl) ether	T16	AR	0.1	mg/kg	U	008-010
2-Chlorophenol	T16	AR	0.1	mg/kg	U	008-010
1,3-Dichlorobenzene	T16	AR	0.1	mg/kg	U	008-010
1,4-Dichlorobenzene	T16	AR	0.1	mg/kg	U	008-010
1,2-Dichlorobenzene	T16	AR	0.1	mg/kg	U	008-010
Bis (2-chloroisopropyl) ether	T16	AR	0.1	mg/kg	U	008-010
2-methyl phenol	T16	AR	0.1	mg/kg	U	008-010
3/4-Methylphenol	T16	AR	0.1	mg/kg	U	008-010
Hexachloroethane	T16	AR	0.1	mg/kg	U	008-010
Nitrobenzene	T16	AR	0.1	mg/kg	U	008-010
Isophorone	T16	AR	0.1	mg/kg	U	008-010
2,4-Dimethylphenol	T16	AR	0.1	mg/kg	U	008-010
Bis (2-chloroethoxy) methane	T16	AR	0.1	mg/kg	U	008-010
2,4-Dichlorophenol	T16	AR	0.1	mg/kg	U	008-010
1,2,4-Trichlorobenzene	T16	AR	0.1	mg/kg	U	008-010
Naphthalene	T16	AR	0.1	mg/kg	U	008-010
4-Chloroaniline	T16	AR	0.1	mg/kg	U	008-010
Hexachlorobutadiene	T16	AR	0.1	mg/kg	U	008-010
4-Chloro-3-methylphenol	T16	AR	0.1	mg/kg	U	008-010
2-Methylnaphthalene	T16	AR	0.1	mg/kg	U	008-010
Hexachlorocyclopentadiene	T16	AR	0.1	mg/kg	N	008-010
2,4,6-Trichlorophenol	T16	AR	0.1	mg/kg	U	008-010
2,4,5-Trichlorophenol	T16	AR	0.1	mg/kg	U	008-010
2-Chloronaphthalene	T16	AR	0.1	mg/kg	U	008-010
2-Nitroaniline	T16	AR	0.1	mg/kg	U	008-010
Dimethyl phthalate	T16	AR	0.1	mg/kg	U	008-010
2,6-Dinitrotoluene	T16	AR	0.1	mg/kg	U	008-010
Acenaphthylene	T16	AR	0.1	mg/kg	U	008-010
Acenaphthene	T16	AR	0.1	mg/kg	U	008-010
3-Nitroaniline	T16	AR	0.1	mg/kg	U	008-010
Dibenzofuran	T16	AR	0.1	mg/kg	U	008-010
2,4-Dinitrophenol	T16	AR	0.1	mg/kg	N	008-010
2,4-Dinitrotoluene	T16	AR	0.1	mg/kg	U	008-010
2-Nitrophenol	T16	AR	0.1	mg/kg	U	008-010
Diethyl phthalate	T16	AR	0.1	mg/kg	U	008-010
Fluorene	T16	AR	0.1	mg/kg	U	008-010
4-Chlorophenyl phenylether	T16	AR	0.1	mg/kg	U	008-010
4-Nitroaniline	T16	AR	0.1	mg/kg	U	008-010
Azobenzene	T16	AR	0.1	mg/kg	U	008-010
4-Bromophenyl phenylether	T16	AR	0.1	mg/kg	U	008-010
Hexachlorobenzene	T16	AR	0.1	mg/kg	U	008-010
Pentachlorophenol	T16	AR	0.1	mg/kg	N	008-010
Phenanthrene	T16	AR	0.1	mg/kg	U	008-010
Anthracene	T16	AR	0.1	mg/kg	U	008-010
Carbazole	T16	AR	0.1	mg/kg	U	008-010
Di-n-butylphthalate	T16	AR	0.1	mg/kg	U	008-010
Fluoranthene	T16	AR	0.1	mg/kg	U	008-010
Pyrene	T16	AR	0.1	mg/kg	U	008-010
Butyl benzylphthalate	T16	AR	0.1	mg/kg	U	008-010
Benzo(a)Anthracene	T16	AR	0.1	mg/kg	U	008-010

Determinand	Method	Test Sample	LOD	Units	Symbol	Concept References
4-Nitrophenol	T16	AR	0.1	mg/kg	N	008-010
Chrysene	T16	AR	0.1	mg/kg	U	008-010
Bis (2-ethylhexyl)phthalate	T16	AR	0.1	mg/kg	U	008-010
Di-n-octylphthalate	T16	AR	0.1	mg/kg	U	008-010
Benzo(b,k)Fluoranthene	T16	AR	0.1	mg/kg	U	008-010
Benzo(a)Pyrene	T16	AR	0.1	mg/kg	U	008-010
Indeno(123-cd)Pyrene	T16	AR	0.1	mg/kg	U	008-010
Dibenzo(ah)Anthracene	T16	AR	0.1	mg/kg	U	008-010
Benzo(ghi)Perylene	T16	AR	0.1	mg/kg	U	008-010
Total Petroleum Hydrocarbons (C10-C16 aliphatic/aromatic)	T85	AR	1	mg/kg	N	008-010
TPH (C35-C40 aliphatic)	T909	AR	1	mg/kg	N	008-010
TPH (C35-C40 aromatic)	T909	AR	1	mg/kg	N	008-010
Total Petroleum Hydrocarbons (C16-C40 aliphatic/aromatic)	T85	AR	1	mg/kg	N	008-010
1,1,1,2-Tetrachloroethane	T54	AR	0.005	mg/kg	U	008-010
1,1,1-Trichloroethane	T54	AR	0.005	mg/kg	U	008-010
1,1,2,2-Tetrachloroethane	T54	AR	0.005	mg/kg	U	008-010
1,1,2-Trichloroethane	T54	AR	0.005	mg/kg	U	008-010
1,1,2-Trichloroethylene	T54	AR	0.005	mg/kg	U	008-010
1,1-Dichloroethane	T54	AR	0.005	mg/kg	U	008-010
1,1-Dichloroethylene	T54	AR	0.005	mg/kg	U	008-010
1,1-Dichloropropene	T54	AR	0.005	mg/kg	U	008-010
1,2,3-Trichloropropane	T54	AR	0.005	mg/kg	U	008-010
1,2,4-Trimethylbenzene	T54	AR	0.005	mg/kg	U	008-010
1,2-dibromoethane	T54	AR	0.005	mg/kg	U	008-010
1,2-Dichlorobenzene	T54	AR	0.005	mg/kg	U	008-010
1,2-Dichloroethane	T54	AR	0.005	mg/kg	U	008-010
1,2-Dichloropropane	T54	AR	0.005	mg/kg	U	008-010
1,3,5-Trimethylbenzene	T54	AR	0.005	mg/kg	U	008-010
1,3-Dichlorobenzene	T54	AR	0.005	mg/kg	U	008-010
1,3-Dichloropropane	T54	AR	0.005	mg/kg	U	008-010
1,4-Dichlorobenzene	T54	AR	0.005	mg/kg	U	008-010
2,2-Dichloropropane	T54	AR	0.005	mg/kg	U	008-010
2-Chlorotoluene	T54	AR	0.005	mg/kg	U	008-010
4-Chlorotoluene	T54	AR	0.005	mg/kg	U	008-010
Bromobenzene	T54	AR	0.005	mg/kg	U	008-010
Bromochloromethane	T54	AR	0.005	mg/kg	U	008-010
Bromodichloromethane	T54	AR	0.005	mg/kg	U	008-010
Bromoform	T54	AR	0.005	mg/kg	U	008-010
Bromomethane	T54	AR	0.005	mg/kg	U	008-010
Carbon tetrachloride	T54	AR	0.005	mg/kg	U	008-010
Chlorobenzene	T54	AR	0.005	mg/kg	U	008-010
Chlorodibromomethane	T54	AR	0.005	mg/kg	U	008-010
Chloroethane	T54	AR	0.005	mg/kg	U	008-010
Chloroform	T54	AR	0.005	mg/kg	U	008-010
Chloromethane	T54	AR	0.005	mg/kg	U	008-010
Cis-1,2-Dichloroethylene	T54	AR	0.005	mg/kg	U	008-010
Cis-1,3-Dichloropropene	T54	AR	0.005	mg/kg	U	008-010
Dibromomethane	T54	AR	0.005	mg/kg	U	008-010
Dichlorodifluoromethane	T54	AR	0.005	mg/kg	U	008-010
Isopropyl benzene	T54	AR	0.005	mg/kg	U	008-010
Methylene Chloride	T54	AR	0.050	mg/kg	N	008-010
n-Propylbenzene	T54	AR	0.005	mg/kg	U	008-010
Naphthalene	T54	AR	0.050	mg/kg	U	008-010
p-Isopropyltoluene	T54	AR	0.005	mg/kg	U	008-010
S-Butylbenzene	T54	AR	0.005	mg/kg	U	008-010
Styrene	T54	AR	0.005	mg/kg	U	008-010
T-Butylbenzene	T54	AR	0.005	mg/kg	U	008-010
Tetrachloroethene	T54	AR	0.005	mg/kg	U	008-010
Trans-1,2-Dichloroethene	T54	AR	0.005	mg/kg	U	008-010
Trans-1,3-Dichloropropene	T54	AR	0.005	mg/kg	U	008-010
Trichlorofluoromethane	T54	AR	0.005	mg/kg	U	008-010
Vinyl chloride	T54	AR	0.005	mg/kg	U	008-010
VOC(Total)	T85	AR	0.005	mg/kg	U	008-010
Total BTEX & MTBE	T85	AR	0.001	mg/kg	U	008-010
Total Petroleum Hydrocarbons (C5 - C10 aliphatic/aromatic)	T85	AR	0.010	mg/kg	N	008-010
Benzene	T54	AR	0.001	mg/kg	U	001-006,008-010
Toluene	T54	AR	0.001	mg/kg	U	001-006,008-010
EthylBenzene	T54	AR	0.001	mg/kg	U	001-006,008-010
M/P Xylene	T54	AR	0.001	mg/kg	U	001-006,008-010
O Xylene	T54	AR	0.001	mg/kg	U	001-006,008-010

Determinand	Method	Test Sample	LOD	Units	Symbol	Concept References
Methyl tert-Butyl Ether	T54	AR	0.001	mg/kg	U	001-006,008-010
TPH (C5-C6 aliphatic)	T54	AR	0.010	mg/kg	N	001-006,008-010
TPH (C6-C8 aliphatic)	T54	AR	0.010	mg/kg	N	001-006,008-010
TPH (C8-C10 aliphatic)	T54	AR	0.010	mg/kg	N	001-006,008-010
TPH (C10-C12 aliphatic)	T909	AR	1	mg/kg	U	001-006,008-010
TPH (C12-C16 aliphatic)	T909	AR	1	mg/kg	U	001-006,008-010
TPH (C16-C21 aliphatic)	T909	AR	1	mg/kg	U	001-006,008-010
TPH (C21-C35 aliphatic)	T909	AR	2	mg/kg	U	001-006,008-010
TPH (Aliphatic) total	T85	AR			N	001-006
TPH (C6-C7 aromatic)	T54	AR	0.010	mg/kg	N	001-006,008-010
TPH (C7-C8 aromatic)	T54	AR	0.010	mg/kg	N	001-006,008-010
TPH (C8-C10 aromatic)	T54	AR	0.010	mg/kg	N	001-006,008-010
TPH (C10-C12 aromatic)	T909	AR	2	mg/kg	U	001-006,008-010
TPH (C12-C16 aromatic)	T909	AR	1	mg/kg	U	001-006,008-010
TPH (C16-C21 aromatic)	T909	AR	1	mg/kg	U	001-006,008-010
TPH (C21-C35 aromatic)	T909	AR	1	mg/kg	U	001-006,008-010
TPH (Aromatic) total	T85	AR			N	001-006
TPH (Aliphatic+Aromatic) (sum)	T85	AR			N	001-006
Dichlorvos	T16	AR	0.01	mg/kg	U	001,003-004,007
Mevinphos	T16	AR	0.01	mg/kg	U	001,003-004,007
Dimethoate	T16	AR	0.01	mg/kg	U	001,003-004,007
Diazinon	T16	AR	0.01	mg/kg	U	001,003-004,007
Pirimiphos methyl	T16	AR	0.01	mg/kg	U	001,003-004,007
Malathion	T16	AR	0.01	mg/kg	U	001,003-004,007
Fenitrothion	T16	AR	0.01	mg/kg	U	001,003-004,007
Parathion	T16	AR	0.01	mg/kg	U	001,003-004,007
Azinphos methyl	T16	AR	0.01	mg/kg	U	001,003-004,007
Asbestos	T27	AR			SU	001-006
Hexachlorocyclohexane (sum of alpha, beta and gamma)	T16	AR	0.01	mg/kg	U	001,003-004,007
Hexachlorobenzene	T1	AR	0.01	mg/kg	U	001,003-004,007
Heptachlor	T16	AR	0.01	mg/kg	U	001,003-004,007
Aldrin	T16	AR	0.01	mg/kg	U	001,003-004,007
Heptachlor epoxide	T16	AR	0.01	mg/kg	U	001,003-004,007
Chlordane	T16	AR	0.01	mg/kg	U	001,003-004,007
Endosulphan	T16	AR	0.01	mg/kg	U	001,003-004,007
DDE	T16	AR	0.01	mg/kg	U	001,003-004,007
Dieldrin	T16	AR	0.01	mg/kg	U	001,003-004,007
Endrin	T16	AR	0.01	mg/kg	U	001,003-004,007
DDD	T16	AR	0.01	mg/kg	U	001,003-004,007
DDT	T16	AR	0.01	mg/kg	U	001,003-004,007
Arsenic	T6	A40	1	mg/kg	U	001-006
Cadmium	T6	A40	1	mg/kg	U	001-006
Chromium	T6	A40	1	mg/kg	U	001-006
Chromium VI	T6	A40	1	mg/kg	N	001-006
Copper	T6	A40	1	mg/kg	U	001-006
Cyanide(Total)	T4	AR	1	mg/kg	U	001-006
Cyanide(free)	T4	AR	1	mg/kg	U	001-006
Lead	T6	A40	1	mg/kg	U	001-006
Mercury	T6	A40	1	mg/kg	U	001-006
Nickel	T6	A40	1	mg/kg	U	001-006
pH	T7	A40			U	001-006
Phenols(Mono)	T4	AR	1	mg/kg	U	001-006
Selenium	T6	A40	3	mg/kg	U	001-006
Soil Organic Matter	T287	A40	0.1	%	N	001-006
SO4(Total)	T102	A40	0.01	%	U	001-006
(Water Soluble) SO4 expressed as SO4	T242	A40	0.05	g/l	U	001-006
Sulphide	T4	A40	10	mg/kg	N	001-006
Sulphur(Free)	T2	AR	500	mg/kg	N	001-006
Thiocyanate	T4	A40	10	mg/kg	N	001-006
Total Organic Carbon	T21	A40	0.1	%	N	001-006
Zinc	T6	A40	1	mg/kg	U	001-006
Acenaphthylene	T149	AR	0.01	mg/kg	U	001-006
Acenaphthene	T149	AR	0.01	mg/kg	U	001-006
Anthracene	T149	AR	0.01	mg/kg	U	001-006
Benzo(a)Anthracene	T149	AR	0.01	mg/kg	U	001-006
Benzo(a)Pyrene	T149	AR	0.01	mg/kg	U	001-006
Benzo(b/k)Fluoranthene	T149	AR	0.01	mg/kg	U	001-006
Benzo(b)fluoranthene	T149	AR	0.01	mg/kg	U	001-006
Benzo(ghi)Perylene	T149	AR	0.01	mg/kg	U	001-006
Benzo(k)fluoranthene	T149	AR	0.01	mg/kg	U	001-006

Determinand	Method	Test Sample	LOD	Units	Symbol	Concept References
Chrysene	T149	AR	0.01	mg/kg	U	001-006
Dibenzo(ah)Anthracene	T149	AR	0.01	mg/kg	U	001-006
Fluoranthene	T149	AR	0.01	mg/kg	U	001-006
Fluorene	T149	AR	0.01	mg/kg	U	001-006
Indeno(123-cd)Pyrene	T149	AR	0.01	mg/kg	U	001-006
Naphthalene	T149	AR	0.01	mg/kg	U	001-006
Phenanthrene	T149	AR	0.01	mg/kg	U	001-006
Pyrene	T149	AR	0.01	mg/kg	U	001-006
PAH(total)	T149	AR	0.01	mg/kg	U	001-006



Concept Life Sciences

Certificate of Analysis

Hadfield House
Hadfield Street
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Manchester
M16 9FE
Tel : 0161 874 2400
Fax : 0161 874 2468

Report Number: 844101-1

Date of Report: 17-Sep-2019

Customer: Worms Eye Ltd
Cannon House
52
Bank Parade
Burnley
Lancashire
BB11 1TS

Customer Contact: Mr Stuart Hartley

Customer Job Reference: 50719-1

Customer Site Reference: ROUNDTORN ROAD - MIDDLETON

Date Job Received at Concept: 06-Sep-2019

Date Analysis Started: 10-Sep-2019

Date Analysis Completed: 17-Sep-2019

The results reported relate to samples received in the laboratory and may not be representative of a whole batch.

Customers are responsible for information provided where, if incorrect, it could affect the validity of the results.

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

This report should not be reproduced except in full without the written approval of the laboratory

Tests covered by this certificate were conducted in accordance with Concept Life Sciences SOPs

All results have been reviewed in accordance with QMSection 15 of the Concept Life Sciences, Analytical Services Quality Manual



1549

Report checked
and authorised by :
Aneta Dybek-Echtermeyer
Customer Service Advisor

Issued by :
Aneta Dybek-Echtermeyer
Customer Service Advisor 

Concept Reference: 844101 Project Site: ROUNDTORN ROAD - MIDDLETON Customer Reference: 50719-1 Soil Analysed as Soil Wormseye TPH (CWG)						
Concept Reference				844101 003	844101 004	
Customer Sample Reference				THM	THN	
Depth				0.3	0.3	
Date Sampled				06-SEP-2019	06-SEP-2019	
Determinand	Method	Test Sample	LOD	Units		
Benzene	T54	AR	0.001	mg/kg	<0.001 ⁽¹³⁾	<0.001 ⁽¹³⁾
Toluene	T54	AR	0.001	mg/kg	<0.001	<0.001
EthylBenzene	T54	AR	0.001	mg/kg	<0.001	<0.001
M/P Xylene	T54	AR	0.001	mg/kg	<0.001	<0.001
O Xylene	T54	AR	0.001	mg/kg	<0.001	<0.001
Methyl tert-Butyl Ether	T54	AR	0.001	mg/kg	<0.001	<0.001
TPH (C5-C6 aliphatic)	T54	AR	0.010	mg/kg	<0.010	<0.010
TPH (C6-C8 aliphatic)	T54	AR	0.010	mg/kg	<0.010	<0.010
TPH (C8-C10 aliphatic)	T54	AR	0.010	mg/kg	<0.010	<0.010
TPH (C10-C12 aliphatic)	T909	AR	1	mg/kg	<1 ⁽¹³⁾	<1 ⁽¹³⁾
TPH (C12-C16 aliphatic)	T909	AR	1	mg/kg	<1 ⁽¹³⁾	<1 ⁽¹³⁾
TPH (C16-C21 aliphatic)	T909	AR	1	mg/kg	<1 ⁽¹³⁾	<1 ⁽¹³⁾
TPH (C21-C35 aliphatic)	T909	AR	2	mg/kg	<2 ⁽¹³⁾	<2 ⁽¹³⁾
TPH (Aliphatic) total	T85	AR			N.D. ⁽¹³⁾	N.D. ⁽¹³⁾
TPH (C6-C7 aromatic)	T54	AR	0.010	mg/kg	<0.010	<0.010
TPH (C7-C8 aromatic)	T54	AR	0.010	mg/kg	<0.010	<0.010
TPH (C8-C10 aromatic)	T54	AR	0.010	mg/kg	<0.010	<0.010
TPH (C10-C12 aromatic)	T909	AR	2	mg/kg	<2 ⁽¹³⁾	<2 ⁽¹³⁾
TPH (C12-C16 aromatic)	T909	AR	1	mg/kg	<1 ⁽¹³⁾	<1 ⁽¹³⁾
TPH (C16-C21 aromatic)	T909	AR	1	mg/kg	<1 ⁽¹³⁾	<1 ⁽¹³⁾
TPH (C21-C35 aromatic)	T909	AR	1	mg/kg	<1 ⁽¹³⁾	<1 ⁽¹³⁾
TPH (Aromatic) total	T85	AR			N.D. ⁽¹³⁾	N.D. ⁽¹³⁾
TPH (Aliphatic+Aromatic) (sum)	T85	AR			N.D. ⁽¹³⁾	N.D. ⁽¹³⁾

Concept Reference: 844101 Project Site: ROUNDTORN ROAD - MIDDLETON Customer Reference: 50719-1 Soil Analysed as Soil TPH C5-C10 (ali/aro + sum)						
Concept Reference				844101 001	844101 002	
Customer Sample Reference				THL	THO	
Depth				0.8	0.7	
Date Sampled				06-SEP-2019	06-SEP-2019	
Determinand	Method	Test Sample	LOD	Units		
TPH (C5-C6 aliphatic)	T54	AR	0.010	mg/kg	<0.010	<0.010
TPH (C6-C8 aliphatic)	T54	AR	0.010	mg/kg	<0.010	<0.010
TPH (C8-C10 aliphatic)	T54	AR	0.010	mg/kg	<0.010	<0.010
TPH (C6-C7 aromatic)	T54	AR	0.010	mg/kg	<0.010	<0.010
TPH (C7-C8 aromatic)	T54	AR	0.010	mg/kg	<0.010	<0.010
TPH (C8-C10 aromatic)	T54	AR	0.010	mg/kg	<0.010	<0.010
Total Petroleum Hydrocarbons (C5 - C10 aliphatic/aromatic)	T85	AR	0.010	mg/kg	<0.010	<0.010

Concept Reference: 844101 Project Site: ROUNDTORN ROAD - MIDDLETON Customer Reference: 50719-1 Soil Analysed as Soil TPH C10-C16 (ali/aro + sum)						
Concept Reference				844101 001	844101 002	
Customer Sample Reference				THL	THO	
Depth				0.8	0.7	
Date Sampled				06-SEP-2019	06-SEP-2019	
Determinand	Method	Test Sample	LOD	Units		
TPH (C10-C12 aliphatic)	T909	AR	1	mg/kg	<1 ⁽¹³⁾	<1 ⁽¹³⁾
TPH (C12-C16 aliphatic)	T909	AR	1	mg/kg	<1 ⁽¹³⁾	<1 ⁽¹³⁾
TPH (C10-C12 aromatic)	T909	AR	2	mg/kg	<2 ⁽¹³⁾	<2 ⁽¹³⁾
TPH (C12-C16 aromatic)	T909	AR	1	mg/kg	<1 ⁽¹³⁾	<1 ⁽¹³⁾
Total Petroleum Hydrocarbons (C10-C16 aliphatic/aromatic)	T85	AR	1	mg/kg	<1 ⁽¹³⁾	<1 ⁽¹³⁾

Concept Reference: 844101 Project Site: ROUNDTORN ROAD - MIDDLETON Customer Reference: 50719-1 Soil Analysed as Soil TPH C16-C40 (ali/aro + sum)						
Concept Reference				844101 001	844101 002	
Customer Sample Reference				THL	THO	
Depth				0.8	0.7	
Date Sampled				06-SEP-2019	06-SEP-2019	
Determinand	Method	Test Sample	LOD	Units		
TPH (C16-C21 aliphatic)	T909	AR	1	mg/kg	<1 ⁽¹³⁾	<1 ⁽¹³⁾
TPH (C21-C35 aliphatic)	T909	AR	2	mg/kg	<2 ⁽¹³⁾	<2 ⁽¹³⁾
TPH (C35-C40 aliphatic)	T909	AR	1	mg/kg	<1 ⁽¹³⁾	<1 ⁽¹³⁾
TPH (C16-C21 aromatic)	T909	AR	1	mg/kg	<1 ⁽¹³⁾	<1 ⁽¹³⁾
TPH (C21-C35 aromatic)	T909	AR	1	mg/kg	<1 ⁽¹³⁾	<1 ⁽¹³⁾
TPH (C35-C40 aromatic)	T909	AR	1	mg/kg	<1 ⁽¹³⁾	<1 ⁽¹³⁾
Total Petroleum Hydrocarbons (C16-C40 aliphatic/aromatic)	T85	AR	1	mg/kg	<1 ⁽¹³⁾	<1 ⁽¹³⁾

Concept Reference: 844101	
Project Site: ROUNDTORN ROAD - MIDDLETON	
Customer Reference: 50719-1	
Soil	Analysed as Soil
Semi-Volatile Organic Compounds (USEPA 625)	

Soil	Analysed as Soil
Semi-Volatile Organic Compounds (USEPA 625)	

Concept Reference	844101 001	844101 002
Customer Sample Reference	THL	THO
Depth	0.8	0.7
Date Sampled	06-SEP-2019	06-SEP-2019

Determinand	Method	Test Sample	LOD	Units		
Phenol	T16	AR	0.1	mg/kg	<0.1 ⁽⁶⁸⁾	<0.1 ⁽⁶⁸⁾
Bis (2-chloroethyl) ether	T16	AR	0.1	mg/kg	<0.1 ⁽⁶⁸⁾	<0.1 ⁽⁶⁸⁾
2-Chlorophenol	T16	AR	0.1	mg/kg	<0.1 ⁽⁶⁸⁾	<0.1 ⁽⁶⁸⁾
1,3-Dichlorobenzene	T16	AR	0.1	mg/kg	<0.1 ⁽⁶⁸⁾	<0.1 ⁽⁶⁸⁾
1,4-Dichlorobenzene	T16	AR	0.1	mg/kg	<0.1 ⁽⁶⁸⁾	<0.1 ⁽⁶⁸⁾
1,2-Dichlorobenzene	T16	AR	0.1	mg/kg	<0.1 ⁽⁶⁸⁾	<0.1 ⁽⁶⁸⁾
Bis (2-chloroisopropyl) ether	T16	AR	0.1	mg/kg	<0.1 ⁽⁶⁸⁾	<0.1 ⁽⁶⁸⁾
2-methyl phenol	T16	AR	0.1	mg/kg	<0.1 ⁽⁶⁸⁾	<0.1 ⁽⁶⁸⁾
3/4-Methylphenol	T16	AR	0.1	mg/kg	<0.1 ⁽⁶⁸⁾	<0.1 ⁽⁶⁸⁾
Hexachloroethane	T16	AR	0.1	mg/kg	<0.1 ⁽⁶⁸⁾	<0.1 ⁽⁶⁸⁾
Nitrobenzene	T16	AR	0.1	mg/kg	<0.1 ⁽⁶⁸⁾	<0.1 ⁽⁶⁸⁾
Isophorone	T16	AR	0.1	mg/kg	<0.1 ⁽⁶⁸⁾	<0.1 ⁽⁶⁸⁾
2,4-Dimethylphenol	T16	AR	0.1	mg/kg	<0.1 ⁽⁶⁸⁾	<0.1 ⁽⁶⁸⁾
Bis (2-chloroethoxy) methane	T16	AR	0.1	mg/kg	<0.1 ⁽⁶⁸⁾	<0.1 ⁽⁶⁸⁾
2,4-Dichlorophenol	T16	AR	0.1	mg/kg	<0.1 ⁽⁶⁸⁾	<0.1 ⁽⁶⁸⁾
1,2,4-Trichlorobenzene	T16	AR	0.1	mg/kg	<0.1 ⁽⁶⁸⁾	<0.1 ⁽⁶⁸⁾
Naphthalene	T16	AR	0.1	mg/kg	<0.1 ⁽⁶⁸⁾	<0.1 ⁽⁶⁸⁾
4-Chloroaniline	T16	AR	0.1	mg/kg	<0.1 ^(68,413)	<0.1 ^(68,413)
Hexachlorobutadiene	T16	AR	0.1	mg/kg	<0.1 ^(68,413)	<0.1 ^(68,413)
4-Chloro-3-methylphenol	T16	AR	0.1	mg/kg	<0.1 ^(68,413)	<0.1 ^(413,68)
2-Methylnaphthalene	T16	AR	0.1	mg/kg	<0.1 ⁽⁶⁸⁾	<0.1 ⁽⁶⁸⁾
Hexachlorocyclopentadiene	T16	AR	0.1	mg/kg	<0.1 ^(68,413)	<0.1 ^(68,413)
2,4,6-Trichlorophenol	T16	AR	0.1	mg/kg	<0.1 ⁽⁶⁸⁾	<0.1 ⁽⁶⁸⁾
2,4,5-Trichlorophenol	T16	AR	0.1	mg/kg	<0.1 ⁽⁶⁸⁾	<0.1 ⁽⁶⁸⁾
2-Chloronaphthalene	T16	AR	0.1	mg/kg	<0.1 ^(68,413)	<0.1 ^(68,413)
2-Nitroaniline	T16	AR	0.1	mg/kg	<0.1 ⁽⁶⁸⁾	<0.1 ⁽⁶⁸⁾
Dimethyl phthalate	T16	AR	0.1	mg/kg	<0.1 ⁽⁶⁸⁾	<0.1 ⁽⁶⁸⁾
2,6-Dinitrotoluene	T16	AR	0.1	mg/kg	<0.1 ^(413,68)	<0.1 ^(413,68)
Acenaphthylene	T16	AR	0.1	mg/kg	<0.1 ⁽⁶⁸⁾	<0.1 ⁽⁶⁸⁾
Acenaphthene	T16	AR	0.1	mg/kg	<0.1 ⁽⁶⁸⁾	<0.1 ⁽⁶⁸⁾
3-Nitroaniline	T16	AR	0.1	mg/kg	<0.1 ⁽⁶⁸⁾	<0.1 ⁽⁶⁸⁾
Dibenzofuran	T16	AR	0.1	mg/kg	<0.1 ⁽⁶⁸⁾	<0.1 ⁽⁶⁸⁾
2,4-Dinitrophenol	T16	AR	0.1	mg/kg	<0.1 ⁽⁶⁸⁾	<0.1 ⁽⁶⁸⁾
2,4-Dinitrotoluene	T16	AR	0.1	mg/kg	<0.1 ^(68,413)	<0.1 ^(68,413)
2-Nitrophenol	T16	AR	0.1	mg/kg	<0.1 ⁽⁶⁸⁾	<0.1 ⁽⁶⁸⁾
Diethyl phthalate	T16	AR	0.1	mg/kg	<0.1 ⁽⁶⁸⁾	<0.1 ⁽⁶⁸⁾
Fluorene	T16	AR	0.1	mg/kg	<0.1 ⁽⁶⁸⁾	<0.1 ⁽⁶⁸⁾
4-Chlorophenyl phenylether	T16	AR	0.1	mg/kg	<0.1 ⁽⁶⁸⁾	<0.1 ⁽⁶⁸⁾
4-Nitroaniline	T16	AR	0.1	mg/kg	<0.1 ⁽⁶⁸⁾	<0.1 ⁽⁶⁸⁾
Azobenzene	T16	AR	0.1	mg/kg	<0.1 ⁽⁶⁸⁾	<0.1 ⁽⁶⁸⁾
4-Bromophenyl phenylether	T16	AR	0.1	mg/kg	<0.1 ⁽⁶⁸⁾	<0.1 ⁽⁶⁸⁾
Hexachlorobenzene	T16	AR	0.1	mg/kg	<0.1 ⁽⁶⁸⁾	<0.1 ⁽⁶⁸⁾
Pentachlorophenol	T16	AR	0.1	mg/kg	<0.1 ^(68,413)	<0.1 ^(68,413)
Phenanthrene	T16	AR	0.1	mg/kg	<0.1 ⁽⁶⁸⁾	<0.1 ⁽⁶⁸⁾
Anthracene	T16	AR	0.1	mg/kg	<0.1 ⁽⁶⁸⁾	<0.1 ⁽⁶⁸⁾
Carbazole	T16	AR	0.1	mg/kg	<0.1 ⁽⁶⁸⁾	<0.1 ⁽⁶⁸⁾
Di-n-butylphthalate	T16	AR	0.1	mg/kg	<0.1 ⁽⁶⁸⁾	<0.1 ⁽⁶⁸⁾
Fluoranthene	T16	AR	0.1	mg/kg	<0.1 ⁽⁶⁸⁾	<0.1 ⁽⁶⁸⁾
Pyrene	T16	AR	0.1	mg/kg	<0.1 ⁽⁶⁸⁾	<0.1 ⁽⁶⁸⁾
Butyl benzylphthalate	T16	AR	0.1	mg/kg	<0.1 ⁽⁶⁸⁾	<0.1 ⁽⁶⁸⁾
Benzo(a)Anthracene	T16	AR	0.1	mg/kg	<0.1 ⁽⁶⁸⁾	<0.1 ⁽⁶⁸⁾
4-Nitrophenol	T16	AR	0.1	mg/kg	<0.1 ⁽⁶⁸⁾	<0.1 ⁽⁶⁸⁾
Chrysene	T16	AR	0.1	mg/kg	<0.1 ⁽⁶⁸⁾	<0.1 ⁽⁶⁸⁾
Bis (2-ethylhexyl)phthalate	T16	AR	0.1	mg/kg	<0.1 ⁽⁶⁸⁾	<0.1 ⁽⁶⁸⁾
Di-n-octylphthalate	T16	AR	0.1	mg/kg	<0.1 ⁽⁶⁸⁾	<0.1 ⁽⁶⁸⁾
Benzo(b/k)Fluoranthene	T16	AR	0.1	mg/kg	<0.1 ⁽⁶⁸⁾	<0.1 ⁽⁶⁸⁾
Benzo(a)Pyrene	T16	AR	0.1	mg/kg	<0.1 ⁽⁶⁸⁾	<0.1 ⁽⁶⁸⁾
Indeno(123-cd)Pyrene	T16	AR	0.1	mg/kg	<0.1 ⁽⁶⁸⁾	<0.1 ⁽⁶⁸⁾
Dibenzo(ah)Anthracene	T16	AR	0.1	mg/kg	<0.1 ⁽⁶⁸⁾	<0.1 ⁽⁶⁸⁾

Concept Reference: 844101 Project Site: ROUNDTORN ROAD - MIDDLETON Customer Reference: 50719-1 Soil Analysed as Soil Semi-Volatile Organic Compounds (USEPA 625)						
Concept Reference		844101 001		844101 002		
Customer Sample Reference		THL		THO		
Depth		0.8		0.7		
Date Sampled		06-SEP-2019		06-SEP-2019		
Determinand	Method	Test Sample	LOD	Units		
Benzo(ghi)Perylene	T16	AR	0.1	mg/kg	<0.1 ⁽⁶⁸⁾	<0.1 ⁽⁶⁸⁾



Concept Reference: 844101 Project Site: ROUNDTORN ROAD - MIDDLETON Customer Reference: 50719-1	
Soil United Utilities Total VOC Suite	Analysed as Soil

Concept Reference	844101 001	844101 002
Customer Sample Reference	THL	THO
Depth	0.8	0.7
Date Sampled	06-SEP-2019	06-SEP-2019

Determinand	Method	Test Sample	LOD	Units		
1,1,1,2-Tetrachloroethane	T54	AR	0.005	mg/kg	<0.005	<0.005
1,1,1-Trichloroethane	T54	AR	0.005	mg/kg	<0.005	<0.005
1,1,2,2-Tetrachloroethane	T54	AR	0.005	mg/kg	<0.005	<0.005
1,1,2-Trichloroethane	T54	AR	0.005	mg/kg	<0.005	<0.005
1,1,2-Trichloroethylene	T54	AR	0.005	mg/kg	<0.005	<0.005
1,1-Dichloroethane	T54	AR	0.005	mg/kg	<0.005	<0.005
1,1-Dichloroethylene	T54	AR	0.005	mg/kg	<0.005	<0.005
1,1-Dichloropropene	T54	AR	0.005	mg/kg	<0.005	<0.005
1,2,3-Trichloropropane	T54	AR	0.005	mg/kg	<0.005	<0.005
1,2,4-Trimethylbenzene	T54	AR	0.005	mg/kg	<0.005	<0.005
1,2-dibromoethane	T54	AR	0.005	mg/kg	<0.005	<0.005
1,2-Dichlorobenzene	T54	AR	0.005	mg/kg	<0.005	<0.005
1,2-Dichloroethane	T54	AR	0.005	mg/kg	<0.005	<0.005
1,2-Dichloropropane	T54	AR	0.005	mg/kg	<0.005	<0.005
1,3,5-Trimethylbenzene	T54	AR	0.005	mg/kg	<0.005	<0.005
1,3-Dichlorobenzene	T54	AR	0.005	mg/kg	<0.005	<0.005
1,3-Dichloropropane	T54	AR	0.005	mg/kg	<0.005	<0.005
1,4-Dichlorobenzene	T54	AR	0.005	mg/kg	<0.005	<0.005
2,2-Dichloropropane	T54	AR	0.005	mg/kg	<0.005	<0.005
2-Chlorotoluene	T54	AR	0.005	mg/kg	<0.005	<0.005
4-Chlorotoluene	T54	AR	0.005	mg/kg	<0.005	<0.005
Bromobenzene	T54	AR	0.005	mg/kg	<0.005	<0.005
Bromochloromethane	T54	AR	0.005	mg/kg	<0.005	<0.005
Bromodichloromethane	T54	AR	0.005	mg/kg	<0.005	<0.005
Bromoform	T54	AR	0.005	mg/kg	<0.005	<0.005
Bromomethane	T54	AR	0.005	mg/kg	<0.005	<0.005
Carbon tetrachloride	T54	AR	0.005	mg/kg	<0.005	<0.005
Chlorobenzene	T54	AR	0.005	mg/kg	<0.005	<0.005
Chlorodibromomethane	T54	AR	0.005	mg/kg	<0.005	<0.005
Chloroethane	T54	AR	0.005	mg/kg	<0.005	<0.005
Chloroform	T54	AR	0.005	mg/kg	<0.005	<0.005
Chloromethane	T54	AR	0.005	mg/kg	<0.005	<0.005
Cis-1,2-Dichloroethylene	T54	AR	0.005	mg/kg	<0.005	<0.005
Cis-1,3-Dichloropropene	T54	AR	0.005	mg/kg	<0.005	<0.005
Dibromomethane	T54	AR	0.005	mg/kg	<0.005	<0.005
Dichlorodifluoromethane	T54	AR	0.005	mg/kg	<0.005	<0.005
Isopropyl benzene	T54	AR	0.005	mg/kg	<0.005	<0.005
Methylene Chloride	T54	AR	0.050	mg/kg	<0.050	<0.050
n-Propylbenzene	T54	AR	0.005	mg/kg	<0.005	<0.005
Naphthalene	T54	AR	0.050	mg/kg	<0.050	<0.050
p-Isopropyltoluene	T54	AR	0.005	mg/kg	<0.005	<0.005
S-Butylbenzene	T54	AR	0.005	mg/kg	<0.005	<0.005
Styrene	T54	AR	0.005	mg/kg	<0.005	<0.005
T-Butylbenzene	T54	AR	0.005	mg/kg	<0.005	<0.005
Tetrachloroethene	T54	AR	0.005	mg/kg	<0.005	<0.005
Trans-1,2-Dichloroethene	T54	AR	0.005	mg/kg	<0.005	<0.005
Trans-1,3-Dichloropropene	T54	AR	0.005	mg/kg	<0.005	<0.005
Trichlorofluoromethane	T54	AR	0.005	mg/kg	<0.005	<0.005
Vinyl chloride	T54	AR	0.005	mg/kg	<0.005	<0.005
VOC(Total)	T85	AR	0.005	mg/kg	<0.005	<0.005

Index to symbols used in 844101-1

Value	Description
AR	As Received
A40	Assisted dried < 40C
N.D.	Not Detected

68	Outside scope of UKAS accreditation
413	The associated QC has failed performance criteria for this compound and the result is indicative only. Result is non accredited.
13	Results have been blank corrected.
S	Analysis was subcontracted
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Notes

Asbestos testing was subcontracted.

Method Index

Value	Description
T149	GC/MS (SIR)
T4	Colorimetry
T54	GC/MS (Headspace)
T6	ICP/OES
T21	OX/IR
T287	Calc TOC/0.58
T27	PLM
T102	ICP/OES (HCl extract)
T2	Grav
T7	Probe
T242	2:1 Extraction/ICP/OES (TRL 447 T1)
T16	GC/MS
T85	Calc
T909	GCxGC

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	Concept References
TPH (Aliphatic) total	T85	AR			N	003-004
TPH (Aromatic) total	T85	AR			N	003-004
TPH (Aliphatic+Aromatic) (sum)	T85	AR			N	003-004
Cresols and Chlorinated Phenols (Total)	T85	AR	0.10	mg/kg	N	001-002
SVOC screen	T16	AR	0.1	mg/kg	N	001-002
Tertiary amyl methyl ether	T54	AR	0.005	mg/kg	U	001-002
Total SVOC (exc PAH & Specific Phenols)	T85	AR	0.1	mg/kg	U	001-002
VOC Screen (Extra Peaks)	T54	AR	0.10	mg/kg	N	001-002
Phenol	T16	AR	0.1	mg/kg	U	001-002
Bis (2-chloroethyl) ether	T16	AR	0.1	mg/kg	U	001-002
2-Chlorophenol	T16	AR	0.1	mg/kg	U	001-002
1,3-Dichlorobenzene	T16	AR	0.1	mg/kg	U	001-002
1,4-Dichlorobenzene	T16	AR	0.1	mg/kg	U	001-002
1,2-Dichlorobenzene	T16	AR	0.1	mg/kg	U	001-002
Bis (2-chloroisopropyl) ether	T16	AR	0.1	mg/kg	U	001-002
2-methyl phenol	T16	AR	0.1	mg/kg	U	001-002
3/4-Methylphenol	T16	AR	0.1	mg/kg	U	001-002
Hexachloroethane	T16	AR	0.1	mg/kg	U	001-002
Nitrobenzene	T16	AR	0.1	mg/kg	U	001-002
Isophorone	T16	AR	0.1	mg/kg	U	001-002
2,4-Dimethylphenol	T16	AR	0.1	mg/kg	U	001-002
Bis (2-chloroethoxy) methane	T16	AR	0.1	mg/kg	U	001-002
2,4-Dichlorophenol	T16	AR	0.1	mg/kg	U	001-002
1,2,4-Trichlorobenzene	T16	AR	0.1	mg/kg	U	001-002
Naphthalene	T16	AR	0.1	mg/kg	U	001-002
4-Chloroaniline	T16	AR	0.1	mg/kg	U	001-002
Hexachlorobutadiene	T16	AR	0.1	mg/kg	U	001-002
4-Chloro-3-methylphenol	T16	AR	0.1	mg/kg	U	001-002
2-Methylnaphthalene	T16	AR	0.1	mg/kg	U	001-002
Hexachlorocyclopentadiene	T16	AR	0.1	mg/kg	N	001-002
2,4,6-Trichlorophenol	T16	AR	0.1	mg/kg	U	001-002
2,4,5-Trichlorophenol	T16	AR	0.1	mg/kg	U	001-002
2-Chloronaphthalene	T16	AR	0.1	mg/kg	U	001-002
2-Nitroaniline	T16	AR	0.1	mg/kg	U	001-002
Dimethyl phthalate	T16	AR	0.1	mg/kg	U	001-002
2,6-Dinitrotoluene	T16	AR	0.1	mg/kg	U	001-002

Determinand	Method	Test Sample	LOD	Units	Symbol	Concept References
Acenaphthylene	T16	AR	0.1	mg/kg	U	001-002
Acenaphthene	T16	AR	0.1	mg/kg	U	001-002
3-Nitroaniline	T16	AR	0.1	mg/kg	U	001-002
Dibenzofuran	T16	AR	0.1	mg/kg	U	001-002
2,4-Dinitrophenol	T16	AR	0.1	mg/kg	N	001-002
2,4-Dinitrotoluene	T16	AR	0.1	mg/kg	U	001-002
2-Nitrophenol	T16	AR	0.1	mg/kg	U	001-002
Diethyl phthalate	T16	AR	0.1	mg/kg	U	001-002
Fluorene	T16	AR	0.1	mg/kg	U	001-002
4-Chlorophenyl phenylether	T16	AR	0.1	mg/kg	U	001-002
4-Nitroaniline	T16	AR	0.1	mg/kg	U	001-002
Azobenzene	T16	AR	0.1	mg/kg	U	001-002
4-Bromophenyl phenylether	T16	AR	0.1	mg/kg	U	001-002
Hexachlorobenzene	T16	AR	0.1	mg/kg	U	001-002
Pentachlorophenol	T16	AR	0.1	mg/kg	N	001-002
Phenanthrene	T16	AR	0.1	mg/kg	U	001-002
Anthracene	T16	AR	0.1	mg/kg	U	001-002
Carbazole	T16	AR	0.1	mg/kg	U	001-002
Di-n-butylphthalate	T16	AR	0.1	mg/kg	U	001-002
Fluoranthene	T16	AR	0.1	mg/kg	U	001-002
Pyrene	T16	AR	0.1	mg/kg	U	001-002
Butyl benzylphthalate	T16	AR	0.1	mg/kg	U	001-002
Benzo(a)Anthracene	T16	AR	0.1	mg/kg	U	001-002
4-Nitrophenol	T16	AR	0.1	mg/kg	N	001-002
Chrysene	T16	AR	0.1	mg/kg	U	001-002
Bis (2-ethylhexyl)phthalate	T16	AR	0.1	mg/kg	U	001-002
Di-n-octylphthalate	T16	AR	0.1	mg/kg	U	001-002
Benzo(b/k)Fluoranthene	T16	AR	0.1	mg/kg	U	001-002
Benzo(a)Pyrene	T16	AR	0.1	mg/kg	U	001-002
Indeno(123-cd)Pyrene	T16	AR	0.1	mg/kg	U	001-002
Dibenzo(ah)Anthracene	T16	AR	0.1	mg/kg	U	001-002
Benzo(ghi)Perylene	T16	AR	0.1	mg/kg	U	001-002
TPH (C10-C12 aliphatic)	T909	AR	1	mg/kg	U	001-004
TPH (C12-C16 aliphatic)	T909	AR	1	mg/kg	U	001-004
TPH (C10-C12 aromatic)	T909	AR	2	mg/kg	U	001-004
TPH (C12-C16 aromatic)	T909	AR	1	mg/kg	U	001-004
Total Petroleum Hydrocarbons (C10-C16 aliphatic/aromatic)	T85	AR	1	mg/kg	N	001-002
TPH (C16-C21 aliphatic)	T909	AR	1	mg/kg	U	001-004
TPH (C21-C35 aliphatic)	T909	AR	2	mg/kg	U	001-004
TPH (C35-C40 aliphatic)	T909	AR	1	mg/kg	N	001-002
TPH (C16-C21 aromatic)	T909	AR	1	mg/kg	U	001-004
TPH (C21-C35 aromatic)	T909	AR	1	mg/kg	U	001-004
TPH (C35-C40 aromatic)	T909	AR	1	mg/kg	N	001-002
Total Petroleum Hydrocarbons (C16-C40 aliphatic/aromatic)	T85	AR	1	mg/kg	N	001-002
1,1,1,2-Tetrachloroethane	T54	AR	0.005	mg/kg	U	001-002
1,1,1,2-Trichloroethane	T54	AR	0.005	mg/kg	U	001-002
1,1,2,2-Tetrachloroethane	T54	AR	0.005	mg/kg	U	001-002
1,1,2-Trichloroethane	T54	AR	0.005	mg/kg	U	001-002
1,1,2-Trichloroethylene	T54	AR	0.005	mg/kg	U	001-002
1,1-Dichloroethane	T54	AR	0.005	mg/kg	U	001-002
1,1-Dichloroethylene	T54	AR	0.005	mg/kg	U	001-002
1,1-Dichloropropene	T54	AR	0.005	mg/kg	U	001-002
1,2,3-Trichloropropane	T54	AR	0.005	mg/kg	U	001-002
1,2,4-Trimethylbenzene	T54	AR	0.005	mg/kg	U	001-002
1,2-dibromoethane	T54	AR	0.005	mg/kg	U	001-002
1,2-Dichlorobenzene	T54	AR	0.005	mg/kg	U	001-002
1,2-Dichloroethane	T54	AR	0.005	mg/kg	U	001-002
1,2-Dichloropropane	T54	AR	0.005	mg/kg	U	001-002
1,3,5-Trimethylbenzene	T54	AR	0.005	mg/kg	U	001-002
1,3-Dichlorobenzene	T54	AR	0.005	mg/kg	U	001-002
1,3-Dichloropropane	T54	AR	0.005	mg/kg	U	001-002
1,4-Dichlorobenzene	T54	AR	0.005	mg/kg	U	001-002
2,2-Dichloropropane	T54	AR	0.005	mg/kg	U	001-002
2-Chlorotoluene	T54	AR	0.005	mg/kg	U	001-002
4-Chlorotoluene	T54	AR	0.005	mg/kg	U	001-002
Bromobenzene	T54	AR	0.005	mg/kg	U	001-002
Bromochloromethane	T54	AR	0.005	mg/kg	U	001-002
Bromodichloromethane	T54	AR	0.005	mg/kg	U	001-002
Bromoform	T54	AR	0.005	mg/kg	U	001-002
Bromomethane	T54	AR	0.005	mg/kg	U	001-002

Determinand	Method	Test Sample	LOD	Units	Symbol	Concept References
Carbon tetrachloride	T54	AR	0.005	mg/kg	U	001-002
Chlorobenzene	T54	AR	0.005	mg/kg	U	001-002
Chlorodibromomethane	T54	AR	0.005	mg/kg	U	001-002
Chloroethane	T54	AR	0.005	mg/kg	U	001-002
Chloroform	T54	AR	0.005	mg/kg	U	001-002
Chloromethane	T54	AR	0.005	mg/kg	U	001-002
Cis-1,2-Dichloroethylene	T54	AR	0.005	mg/kg	U	001-002
Cis-1,3-Dichloropropene	T54	AR	0.005	mg/kg	U	001-002
Dibromomethane	T54	AR	0.005	mg/kg	U	001-002
Dichlorodifluoromethane	T54	AR	0.005	mg/kg	U	001-002
Isopropyl benzene	T54	AR	0.005	mg/kg	U	001-002
Methylene Chloride	T54	AR	0.050	mg/kg	N	001-002
n-Propylbenzene	T54	AR	0.005	mg/kg	U	001-002
Naphthalene	T54	AR	0.050	mg/kg	U	001-002
p-Isopropyltoluene	T54	AR	0.005	mg/kg	U	001-002
S-Butylbenzene	T54	AR	0.005	mg/kg	U	001-002
Styrene	T54	AR	0.005	mg/kg	U	001-002
T-Butylbenzene	T54	AR	0.005	mg/kg	U	001-002
Tetrachloroethene	T54	AR	0.005	mg/kg	U	001-002
Trans-1,2-Dichloroethene	T54	AR	0.005	mg/kg	U	001-002
Trans-1,3-Dichloropropene	T54	AR	0.005	mg/kg	U	001-002
Trichlorofluoromethane	T54	AR	0.005	mg/kg	U	001-002
Vinyl chloride	T54	AR	0.005	mg/kg	U	001-002
VOC(Total)	T85	AR	0.005	mg/kg	U	001-002
Benzene	T54	AR	0.001	mg/kg	U	001-004
EthylBenzene	T54	AR	0.001	mg/kg	U	001-004
M/P Xylene	T54	AR	0.001	mg/kg	U	001-004
Methyl tert-Butyl Ether	T54	AR	0.001	mg/kg	U	001-004
O Xylene	T54	AR	0.001	mg/kg	U	001-004
Toluene	T54	AR	0.001	mg/kg	U	001-004
Total BTEX & MTBE	T85	AR	0.001	mg/kg	U	001-002
TPH (C5-C6 aliphatic)	T54	AR	0.010	mg/kg	N	001-004
TPH (C6-C8 aliphatic)	T54	AR	0.010	mg/kg	N	001-004
TPH (C8-C10 aliphatic)	T54	AR	0.010	mg/kg	N	001-004
TPH (C6-C7 aromatic)	T54	AR	0.010	mg/kg	N	001-004
TPH (C7-C8 aromatic)	T54	AR	0.010	mg/kg	N	001-004
TPH (C8-C10 aromatic)	T54	AR	0.010	mg/kg	N	001-004
Total Petroleum Hydrocarbons (C5 - C10 aliphatic/aromatic)	T85	AR	0.010	mg/kg	N	001-002
Arsenic	T6	A40	1	mg/kg	U	003-004
Cadmium	T6	A40	1	mg/kg	U	003-004
Chromium	T6	A40	1	mg/kg	U	003-004
Chromium VI	T6	A40	1	mg/kg	N	003-004
Copper	T6	A40	1	mg/kg	U	003-004
Cyanide(Total)	T4	AR	1	mg/kg	U	003-004
Cyanide(free)	T4	AR	1	mg/kg	U	003-004
Lead	T6	A40	1	mg/kg	U	003-004
Mercury	T6	A40	1	mg/kg	U	003-004
Nickel	T6	A40	1	mg/kg	U	003-004
pH	T7	A40			U	003-004
Phenols(Mono)	T4	AR	1	mg/kg	U	003-004
Selenium	T6	A40	3	mg/kg	U	003-004
Soil Organic Matter	T287	A40	0.1	%	N	003-004
SO4(Total)	T102	A40	0.01	%	U	003-004
(Water Soluble) SO4 expressed as SO4	T242	A40	0.05	g/l	U	003-004
Sulphide	T4	A40	10	mg/kg	N	003-004
Sulphur(Free)	T2	AR	500	mg/kg	N	003-004
Thiocyanate	T4	A40	10	mg/kg	N	003-004
Total Organic Carbon	T21	A40	0.1	%	N	003-004
Zinc	T6	A40	1	mg/kg	U	003-004
Acenaphthylene	T149	AR	0.01	mg/kg	U	003-004
Acenaphthene	T149	AR	0.01	mg/kg	U	003-004
Anthracene	T149	AR	0.01	mg/kg	U	003-004
Benzo(a)Anthracene	T149	AR	0.01	mg/kg	U	003-004
Benzo(a)Pyrene	T149	AR	0.01	mg/kg	U	003-004
Benzo(b,k)Fluoranthene	T149	AR	0.01	mg/kg	U	003-004
Benzo(b)fluoranthene	T149	AR	0.01	mg/kg	U	003-004
Benzo(ghi)Perylene	T149	AR	0.01	mg/kg	U	003-004
Benzo(k)fluoranthene	T149	AR	0.01	mg/kg	U	003-004
Chrysene	T149	AR	0.01	mg/kg	U	003-004
Dibenzo(ah)Anthracene	T149	AR	0.01	mg/kg	U	003-004

Determinand	Method	Test Sample	LOD	Units	Symbol	Concept References
Fluoranthene	T149	AR	0.01	mg/kg	U	003-004
Fluorene	T149	AR	0.01	mg/kg	U	003-004
Indeno(123-cd)Pyrene	T149	AR	0.01	mg/kg	U	003-004
Naphthalene	T149	AR	0.01	mg/kg	U	003-004
Phenanthrene	T149	AR	0.01	mg/kg	U	003-004
Pyrene	T149	AR	0.01	mg/kg	U	003-004
PAH(total)	T149	AR	0.01	mg/kg	U	003-004
Asbestos	T27	AR			SU	003-004



Concept Life Sciences

Certificate of Analysis

Hadfield House
Hadfield Street
Cornbrook
Manchester
M16 9FE
Tel : 0161 874 2400
Fax : 0161 874 2468

Report Number: 844103-1

Date of Report: 16-Sep-2019

Customer: Worms Eye Ltd
Cannon House
52
Bank Parade
Burnley
Lancashire
BB11 1TS

Customer Contact: Mr Stuart Hartley

Customer Job Reference: 50719-1

Customer Site Reference: ROUNDTORN ROAD - MIDDLETON

Date Job Received at Concept: 06-Sep-2019

Date Analysis Started: 09-Sep-2019

Date Analysis Completed: 16-Sep-2019

The results reported relate to samples received in the laboratory and may not be representative of a whole batch.

Customers are responsible for information provided where, if incorrect, it could affect the validity of the results.

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

This report should not be reproduced except in full without the written approval of the laboratory

Tests covered by this certificate were conducted in accordance with Concept Life Sciences SOPs

All results have been reviewed in accordance with QMSection 15 of the Concept Life Sciences, Analytical Services Quality Manual



1549

Report checked
and authorised by :
Aneta Dybek-Echtermeyer
Customer Service Advisor

Issued by :
Aneta Dybek-Echtermeyer
Customer Service Advisor



Concept Reference: 844103								
Project Site: ROUNDTHORN ROAD - MIDDLETON								
Customer Reference: 50719-1								
Soil			Analysed as Soil					
Suite of As, Pb, Cu and Zn								
Concept Reference					844103 001	844103 002	844103 003	844103 004
Customer Sample Reference					THK 1	THK 2	THK 3	THK 4
Depth					0.3	0.3	0.3	0.3
Date Sampled					06-SEP-2019	06-SEP-2019	06-SEP-2019	06-SEP-2019
Determinand	Method	Test Sample	LOD	Units				
Arsenic	T6	A40	1	mg/kg	6	6	8	19
Lead	T6	A40	1	mg/kg	22	18	17	130
Copper	T6	A40	1	mg/kg	12	11	17	54
Zinc	T6	A40	1	ma/ka	38	29	37	130

Concept Reference: 844103								
Project Site: ROUNDTORN ROAD - MIDDLETON								
Customer Reference: 50719-1								
Soil		Analysed as Soil						
PAH US EPA 16 (B and K split)								
Concept Reference					844103 001	844103 002	844103 003	844103 004
Customer Sample Reference					THK 1	THK 2	THK 3	THK 4
Depth					0.3	0.3	0.3	0.3
Date Sampled					06-SEP-2019	06-SEP-2019	06-SEP-2019	06-SEP-2019
Determinand	Method	Test Sample	LOD	Units				
Naphthalene	T149	AR	0.01	mg/kg	<0.01	<0.01	<0.01	0.12
Acenaphthylene	T149	AR	0.01	mg/kg	<0.01	<0.01	<0.01	0.03
Acenaphthene	T149	AR	0.01	mg/kg	<0.01	<0.01	<0.01	0.16
Fluorene	T149	AR	0.01	mg/kg	<0.01	<0.01	<0.01	0.10
Phenanthrene	T149	AR	0.01	mg/kg	0.01	0.01	0.03	1.3
Anthracene	T149	AR	0.01	mg/kg	<0.01	<0.01	0.01	0.40
Fluoranthene	T149	AR	0.01	mg/kg	0.02	0.02	0.09	2.0
Pyrene	T149	AR	0.01	mg/kg	0.02	0.02	0.09	1.8
Benzo(a)Anthracene	T149	AR	0.01	mg/kg	0.02	0.02	0.05	1.0
Chrysene	T149	AR	0.01	mg/kg	0.01	0.01	0.04	1.0
Benzo(b)fluoranthene	T149	AR	0.01	mg/kg	0.01	0.02	0.05	1.5
Benzo(k)fluoranthene	T149	AR	0.01	mg/kg	0.01	0.01	0.02	0.49
Benzo(a)Pyrene	T149	AR	0.01	mg/kg	0.01	0.01	0.04	1.1
Indeno(123-cd)Pyrene	T149	AR	0.01	mg/kg	0.01	0.01	0.02	0.65
Dibenzo(ah)Anthracene	T149	AR	0.01	mg/kg	<0.01	<0.01	<0.01	0.16
Benzo(ghi)Perylene	T149	AR	0.01	mg/kg	0.01	0.01	0.02	0.87
PAH(total)	T149	AR	0.01	mg/kg	0.13	0.14	0.46	13

Concept Reference:	844103
Project Site:	ROUNDTORN ROAD - MIDDLETON
Customer Reference:	50719-1
Soil	Analysed as Soil
Organochlorine insecticides	

Concept Reference					844103 001	844103 002	844103 003	844103 004
Customer Sample Reference					THK 1	THK 2	THK 3	THK 4
Depth					0.3	0.3	0.3	0.3
Date Sampled					06-SEP-2019	06-SEP-2019	06-SEP-2019	06-SEP-2019
Determinand	Method	Test Sample	LOD	Units				
Hexachlorocyclohexane (sum of alpha, beta and gamma)	T16	AR	0.01	mg/kg	<0.01	<0.01	<0.01	<0.01
Hexachlorobenzene	T1	AR	0.01	mg/kg	<0.01	<0.01	<0.01	<0.01
Heptachlor	T16	AR	0.01	mg/kg	<0.01	<0.01	<0.01	<0.01
Aldrin	T16	AR	0.01	mg/kg	<0.01	<0.01	<0.01	<0.01
Heptachlor epoxide	T16	AR	0.01	mg/kg	<0.01	<0.01	<0.01	<0.01
Chlordane	T16	AR	0.01	mg/kg	<0.01	<0.01	<0.01	<0.01
Endosulphan	T16	AR	0.01	mg/kg	<0.01	<0.01	<0.01	<0.01
DDE	T16	AR	0.01	mg/kg	<0.01	<0.01	<0.01	44
Dieldrin	T16	AR	0.01	mg/kg	<0.01	<0.01	<0.01	<0.01
Endrin	T16	AR	0.01	mg/kg	<0.01	<0.01	<0.01	<0.01
DDD	T16	AR	0.01	mg/kg	<0.01	<0.01	<0.01	15
DDT	T16	AR	0.01	mg/ka	<0.01	<0.01	<0.01	<0.01

Concept Reference: 844103 Project Site: ROUNDTORN ROAD - MIDDLETON Customer Reference: 50719-1	
Soil Miscellaneous	Analysed as Soil

Concept Reference					844103 001	844103 002	844103 003	844103 004
Customer Sample Reference					THK 1	THK 2	THK 3	THK 4
Depth					0.3	0.3	0.3	0.3
Date Sampled					06-SEP-2019	06-SEP-2019	06-SEP-2019	06-SEP-2019
Determinand	Method	Test Sample	LOD	Units				
Asbestos	T27	AR			N.D.	N.D.	N.D.	N.D.

Index to symbols used in 844103-1

Value	Description
A40	Assisted dried < 40C
AR	As Received
N.D.	Not Detected
S	Analysis was subcontracted
U	Analysis is UKAS accredited

Notes

Asbestos testing was subcontracted.

Method Index

Value	Description
T6	ICP/OES
T16	GC/MS
T149	GC/MS (SIR)
T27	PLM
T1	GC/MS (HR)

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	Concept References
Hexachlorocyclohexane (sum of alpha, beta and gamma)	T16	AR	0.01	mg/kg	U	001-004

Determinand	Method	Test Sample	LOD	Units	Symbol	Concept References
Hexachlorobenzene	T1	AR	0.01	mg/kg	U	001-004
Heptachlor	T16	AR	0.01	mg/kg	U	001-004
Aldrin	T16	AR	0.01	mg/kg	U	001-004
Heptachlor epoxide	T16	AR	0.01	mg/kg	U	001-004
Chlordane	T16	AR	0.01	mg/kg	U	001-004
Endosulphan	T16	AR	0.01	mg/kg	U	001-004
DDE	T16	AR	0.01	mg/kg	U	001-004
Dieldrin	T16	AR	0.01	mg/kg	U	001-004
Endrin	T16	AR	0.01	mg/kg	U	001-004
DDD	T16	AR	0.01	mg/kg	U	001-004
DDT	T16	AR	0.01	mg/kg	U	001-004
Arsenic	T6	A40	1	mg/kg	U	001-004
Lead	T6	A40	1	mg/kg	U	001-004
Copper	T6	A40	1	mg/kg	U	001-004
Zinc	T6	A40	1	mg/kg	U	001-004
Asbestos	T27	AR			SU	001-004
Naphthalene	T149	AR	0.01	mg/kg	U	001-004
Acenaphthylene	T149	AR	0.01	mg/kg	U	001-004
Acenaphthene	T149	AR	0.01	mg/kg	U	001-004
Fluorene	T149	AR	0.01	mg/kg	U	001-004
Phenanthrene	T149	AR	0.01	mg/kg	U	001-004
Anthracene	T149	AR	0.01	mg/kg	U	001-004
Fluoranthene	T149	AR	0.01	mg/kg	U	001-004
Pyrene	T149	AR	0.01	mg/kg	U	001-004
Benzo(a)Anthracene	T149	AR	0.01	mg/kg	U	001-004
Chrysene	T149	AR	0.01	mg/kg	U	001-004
Benzo(b)fluoranthene	T149	AR	0.01	mg/kg	U	001-004
Benzo(k)fluoranthene	T149	AR	0.01	mg/kg	U	001-004
Benzo(a)Pyrene	T149	AR	0.01	mg/kg	U	001-004
Indeno(123-cd)Pyrene	T149	AR	0.01	mg/kg	U	001-004
Dibenzo(ah)Anthracene	T149	AR	0.01	mg/kg	U	001-004
Benzo(ghi)Perylene	T149	AR	0.01	mg/kg	U	001-004
PAH(total)	T149	AR	0.01	mg/kg	U	001-004



RAMSDEN FARM, ROUNDTORN ROAD, MIDDLETON, MANCHESTER, M24 1FT

Comparison of Contamination Test Results with Various Thresholds

RESIDENTIAL WITH HOMEGROWN VEGETABLES

Hydrocarbons at 1% SOM

Contaminant	Max Value	Threshold	Pass/ Fail	SSAC	Pass/ Fail	Failed Samples
HEAVY METALS						
- Arsenic	19	37*	√			
- Cadmium	<1	11*	√			
- Chromium III	22	910*	√			
- Chromium VI	<1	6*	√			
- Copper	68	2400*	√			
- Lead	260	200▲	X			THA – 0.3m
- Inorganic Mercury	<1	40*	√			
- Methyl Mercury	<1	11*	√			
- Nickel	24	180*	√			
- Selenium	<3	350#	√			
- Zinc	250	3700*	√			
OTHER INORGANICS						
- Asbestos	ND		√			
- Cyanide (total)	<1	20 (D)	√			
- pH range	5.6 – 7.7		√			
- Sulphate (g/l)	<0.05	0.5 (B)	√			
- Sulphide	<10	250 (E)	√			
- Thiocyanate	<10		√			
-TOC range (%)	0.2 – 8.6		√			
-SOM Range	0.4 – 15		√			

All units mg/kg (parts per million/ppm) unless shown otherwise

Metals & inorganic values derived using 6% SOM (soil organic mater)

Sources

- Soil Guideline Values ▲ - C4SL

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(D) – Dutch (B) - BRE – Building Research Establishment (E) - EA Disposal Threshold 2002

® - CLEA 1.06 Software

SSAC – Site Specific Assessment Criteria (derived with CLEA 1.06 software)

RAMSDEN FARM, ROUNDTORN ROAD, MIDDLETON, MANCHESTER, M24 1FT

Comparison of Contamination Test Results with Various Thresholds

RESIDENTIAL WITH HOMEGROWN VEGETABLES

Hydrocarbons at 1% SOM

Contaminant	Max Value	Threshold	Pass/Fail	SSAC	Pass/Fail	Failed Samples
PAHs						
- Acenaphthene	0.16	210*	√			
- Acenaphthylene	0.22	170*	√			
- Anthracene	0.40	2400*	√			
- Benz(a)anthracene	1.2	7.2*	√			
- Benzo(a)pyrene (BAP)*	1.5	2.2*	√			
- Benzo(b)fluoranthene	1.5	2.6*	√			
- Benzo(ghi)perylene	1.2	320*	√			
- Benzo(k)fluoranthene	1.1	77*	√			
- Chrysene	1.3	15*	√			
- Dibenzo(ah)anthracene (DBA)	0.31	0.24*	X			THA – 0.3m
- Fluoranthene	2.2	280*	√			
- Fluorene	0.12	170*	√			
- Indene (123-cd) pyrene	0.99	27*	√			
- Naphthalene	0.20	2.3*	√			
- Phenanthrene	1.3	95*	√			
- Pyrene	2.0	620*	√			
OTHER COMPOUNDS						
Phenols	<1	280*	√			
PID (VOC screen) ppm	0.0		√			
MTBE	<0.002		√			

All units mg/kg (parts per million/ppm) unless shown otherwise

Hydrocarbon values derived using 1% SOM

BAP is a marker for genotoxic PAHs

Sources

- Soil Guideline Values ▲ - C4SL

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RAMSDEN FARM, ROUNDTORN ROAD, MIDDLETON, MANCHESTER, M24 1FT

Comparison of Contamination Test Results with Various Thresholds

RESIDENTIAL WITH HOMEGROWN VEGETABLES

Hydrocarbons at 1% SOM

Contaminant	Max Value	Threshold	Pass/Fail	SSAC	Pass/Fail	Failed Samples
BTEX COMPOUNDS						
- Benzene	<0.002	0.087*	√			
- Toluene	<0.002	130*	√			
- Ethyl-benzene	<0.002	47*	√			
- Xylene - O	<0.002	60*	√			
- M/P	<0.002	56*	√			
TPHs						
<u>Aliphatics</u>						
C ₅ – C ₆	<0.02	42*	√			
C ₆ – C ₈	<0.02	100*	√			
C ₈ – C ₁₀	<0.02	27*	√			
C ₁₀ – C ₁₂	<1	130 (48 vap)*	√			
C ₁₂ – C ₁₆	<1	1100 (24 sol)*	√			
C ₁₆ – C ₃₅	5	65000 (8.48 sol)*	√			
<u>Aromatics</u>						
C ₅ – C ₇	<0.02	70*	√			
C ₇ – C ₈	<0.02	130*	√			
C ₈ – C ₁₀	<0.02	34*	√			
C ₁₀ – C ₁₂	<2	74*	√			
C ₁₂ – C ₁₆	2	140*	√			
C ₁₆ – C ₂₁	37	260*	√			
C ₂₁ – C ₃₅	69	1100*	√			
TPH Sum	110	1,000 (H)	√			

All units mg/kg (parts per million/ppm) unless shown otherwise

Hydrocarbon values derived using 1% SOM

Vap – vapour saturation limit Soil – solubility saturation limit

Sources

- Soil Guideline Values ▲ - C4SL

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(D) – Dutch (B) - BRE – Building Research Establishment (E) - EA Disposal Threshold 2002

(H) – Hazardous Waste

® - CLEA 1.06 Software

SSAC – Site Specific Assessment Criteria (derived with CLEA 1.06 software)

RAMSDEN FARM, ROUNDTORN ROAD, MIDDLETON, MANCHESTER, M24 1FT

Comparison of Pesticides With International Thresholds

All units mg/kg (parts per million/ppm) unless shown otherwise

LATVIAN THRESHOLDS FOR SOILS

Contaminant	THA (0.3m)		Target Level	Pass/ Fail
	Max (mg/kg)	Combined (mg/kg)		
DDT	0.32	0.45	0.01	X
DDE	0.12			
DDD	<0.1			
Contaminant	TH K4 (0.3m)		Target Level	Pass/ Fail
	Max (mg/kg)	Combined (mg/kg)		
DDT	15	59	0.01	X
DDE	44			
DDD	<0.01			

SWEDISH THRESHOLDS FOR SOILS

Contaminant	THA (0.3m)		Sensitive Land Use	Pass/ Fail
	Max (mg/kg)	Combined (mg/kg)		
DDT	0.32	0.45	0.1	X
DDE	0.12			
DDD	<0.1			
Contaminant	TH K4 (0.3m)		Sensitive Land Use	Pass/ Fail
	Max (mg/kg)	Combined (mg/kg)		
DDT	15	59	0.1	X
DDE	44			
DDD	<0.01			

CANADIAN SOIL GUIDELINE VALUES

Contaminant	THA (0.3m)		Residential	Pass/ Fail
	Max (mg/kg)	Combined (mg/kg)		
DDT	0.32	0.45	0.7	√
DDE	0.12			
DDD	<0.1			
Contaminant	TH K4 (0.3m)		Target Level	Pass/ Fail
	Max (mg/kg)	Combined (mg/kg)		
DDT	15	59	0.7	X
DDE	44			
DDD	<0.01			

GROUND GAS TESTING RESULTS

RAMSDEN FARM, ROUNDTORN ROAD, MIDDLETON, MANCHESTER, M24 1FT

Date	Barometric Pressure (mb)	Temp. °C	Weather	BH	Methane CH ₄ (%)	Oxygen O ₂ (%)	Carbon Dioxide CO ₂ (%)	Steady State CO ₂ (%)	Outflow from BH (l/hr)	Depth to water (m)	Comments
					0	20.9	0	0	0		Fresh air
					1.0 *		5.0 *		70 ❖		Threshold values
20.11.19	1001	4	Cloudy	Pr1	8.5	0.3	11.3	11.3	0.0	1.56	
				Pr2	0.0	20.9	0.5	0.5	0.0	Dry	
				Pr3	0.0	18.6	1.7	1.7	0.0	0.65	Water level falling
				Pr4	0.0	15.0	0.0	0.0	0.0	1.4	Surround excavated
04.12.19	1009	-1	Sunny/frost	Pr1	6.3	0.0	10.4	10.3	0.0	1.58	
				Pr2	0.0	20.9	1.3	0.4	0.0	Dry	
				Pr3	0.0	19.0	2.7	2.6	0.0	0.2	
				Pr4	0.0	19.7	0.6	0.5	0.0	1.5	
7.2.20	1007	3	Sunny	Pr1	3.4	2.4	10.0	10.0	0.0		
				Pr2	0.0	16.0	1.1	1.1	0.0		
				Pr3	0.0	16.0	0.0	0.0	0.0		
				Pr4	0.0	18.8	0.0	0.0	0.0		
20.2.20	-	7	Sunny	Pr1	-	-	-	-	-	-	Buried
				Pr2	-	-	-	-	-	-	Buried
				Pr3	-	-	-	-	-	-	Flooded
				Pr4	-	-	-	-	-	-	Flooded
18.6.20	1000	14	Rain	Pr1	-	-	-	-	-	-	Buried
				Pr2	-	-	-	-	-	-	Buried
				Pr3	0.0	17.3	0.3	0.3	0.0	0.7	
				Pr4	0.1	16.4	0.2	0.2	0.0	1.5	

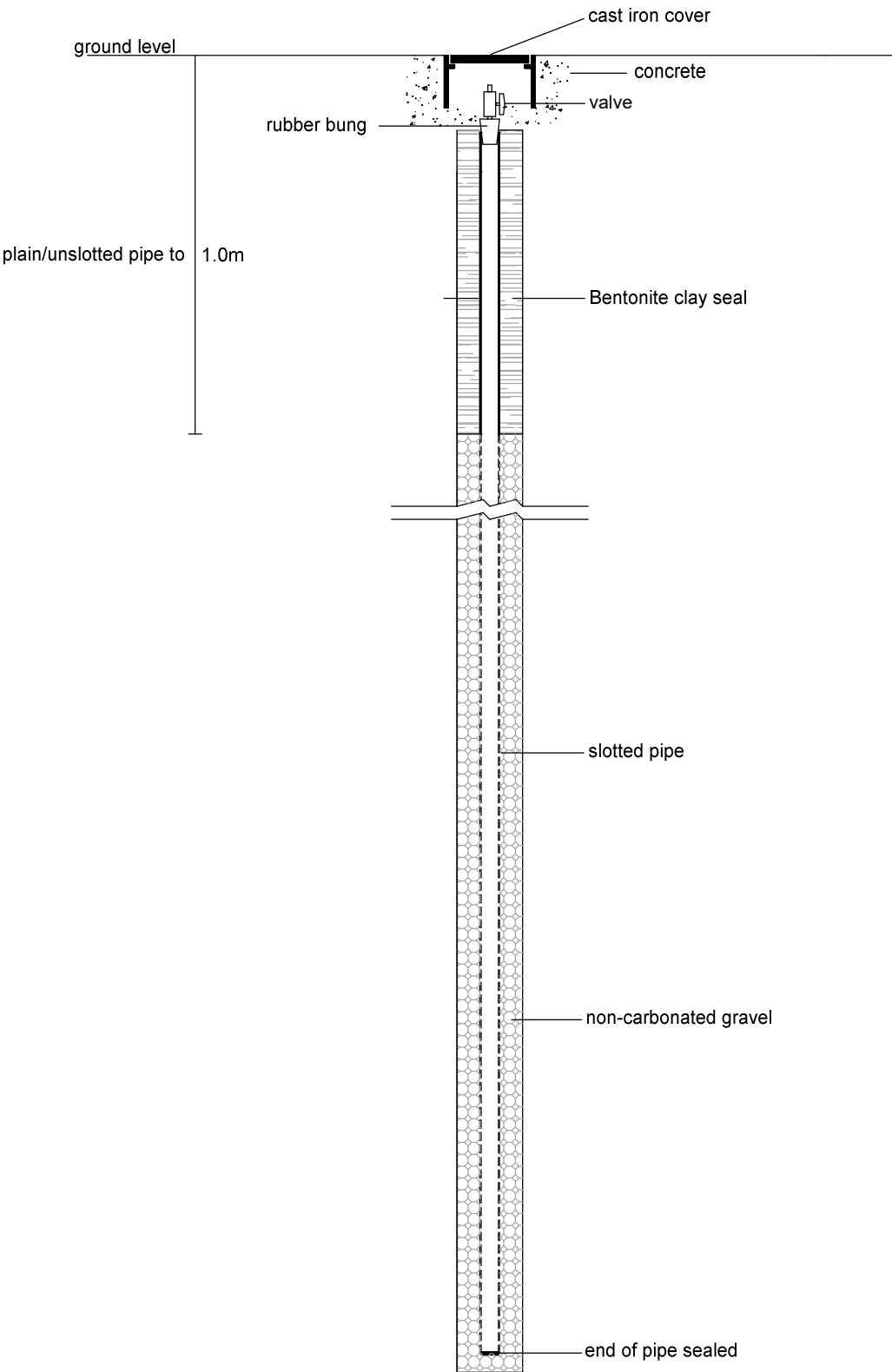
Testing machines: GA2000

Outflow - 0 taken as < 0.1litres/hour flow of gas from borehole

* NHBC green limit, CIRIA situation 1 limit

❖ CIRIA situation 2 limit

Gas Monitoring Well Flush Top Not to Scale	Site: Ramsden Farm, Roundthorn Road, Middleton, Manchester, M24 1FT								WORMS EYE LTD
Borehole	PR1	PR2	PR3	PR4					
Slotted pipe depth	2.7	1.9	2.1	2.6	m				
Borehole diameter	50	50	50	50	mm				
Pipe diameter	38	38	38	38	mm				
Plain pipe length at top	1.0	1.0	1.0	1.0	m				
Base of probe	14.5	13.3	12.6	13.2	m				
Response zone	1-2.7	1-1.9	1-2.1	1-2.6					



GROUND GAS TESTING RESULTS

RAMSDEN FARM, ROUNDTORN ROAD, MIDDLETON, MANCHESTER, M24 1FT

Date	Barometric Pressure (mb)	Temp. °C	Weather	BH	Methane CH ₄ (%)	Oxygen O ₂ (%)	Carbon Dioxide CO ₂ (%)	Steady State CO ₂ (%)	Outflow from BH (l/hr)	Depth to water (m)	Comments
					0	20.9	0	0	0		Fresh air
					1.0 *		5.0 *		70 ❖		Threshold values
20.11.19	1001	4	Cloudy	Pr1	8.5	0.3	11.3	11.3	0.0	1.56	
				Pr2	0.0	20.9	0.5	0.5	0.0	Dry	
				Pr3	0.0	18.6	1.7	1.7	0.0	0.65	Water level falling
				Pr4	0.0	15.0	0.0	0.0	0.0	1.4	Surround excavated
04.12.19	1009	-1	Sunny/frost	Pr1	6.3	0.0	10.4	10.3	0.0	1.58	
				Pr2	0.0	20.9	1.3	0.4	0.0	Dry	
				Pr3	0.0	19.0	2.7	2.6	0.0	0.2	
				Pr4	0.0	19.7	0.6	0.5	0.0	1.5	
7.2.20	1007	3	Sunny	Pr1	3.4	2.4	10.0	10.0	0.0		
				Pr2	0.0	16.0	1.1	1.1	0.0		
				Pr3	0.0	16.0	0.0	0.0	0.0		
				Pr4	0.0	18.8	0.0	0.0	0.0		
20.2.20	-	7	Sunny	Pr1	-	-	-	-	-	-	Buried
				Pr2	-	-	-	-	-	-	Buried
				Pr3	-	-	-	-	-	-	Flooded
				Pr4	-	-	-	-	-	-	Flooded
18.6.20	1000	14	Rain	Pr1	-	-	-	-	-	-	Buried
				Pr2	-	-	-	-	-	-	Buried
				Pr3	0.0	17.3	0.3	0.3	0.0	0.7	
				Pr4	0.1	16.4	0.2	0.2	0.0	1.5	

Testing machines: GA2000

Outflow - 0 taken as < 0.1litres/hour flow of gas from borehole

* NHBC green limit, CIRIA situation 1 limit

❖ CIRIA situation 2 limit

CERTIFICATION OF CALIBRATION

Date Of Calibration: 02-Jan-2020



No. 66916



Certificate Number: GA12824_2/24743

Issued by: QED Environmental Systems Inc.

Customer:

Description:

Model: GA2000

Serial Number: GA12824

Accredited Results:

Methane (CH₄)

Certified Gas (%)	Instrument Reading (%)	Uncertainty (%)
5.0	5.2	0.41
15.0	15.4	0.65
50.0	49.7	1.05

Carbon Dioxide (CO₂)

Certified Gas (%)	Instrument Reading (%)	Uncertainty (%)
5.0	4.9	0.43
15.0	14.8	0.71
50.0	50.3	1.20

Oxygen (O₂)

Certified Gas (%)	Instrument Reading (%)	Uncertainty (%)
21.3	21.3	0.25

Gas cylinders are traceable and details can be provided if requested.

CH₄, CO₂ readings recorded at: 31.2 °C/88.2 °F

Barometric Pressure: 1008 mbar/29.78 "Hg

O₂ readings recorded at: 22.3 °C/72.2 °F

Method of Test : The analyzer is calibrated in a temperature controlled chamber using a series of reference gases, in compliance with procedure ISP17.

Instrument has passed calibration as the measurement result is within the specification limit. The specification limit takes into account the measurement uncertainty.

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95%. The uncertainty evaluation has been carried out in accordance with NIST requirements.

The calibration results published in this certificate were obtained using equipment capable of producing results that are traceable through NIST to the International System of Units (SI). Certification only applies to results shown. This certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory.

CERTIFICATION OF CALIBRATION



No. 66916



Date Of Calibration: 02-Jan-2020

Certificate Number: GA12824_2/24743

Issued by: QED Environmental Systems Inc.

Non Accredited results:

Barometer (mbar)	
Reference	Instrument Reading
1008 mbar / 29.78 "Hg	1008 mbar / 29.78 "Hg

Internal Flow	
Applied	Measured
5	5.0
10	9.9

As received gas check readings:

Methane (CH ₄)	
Certified Gas (%)	Instrument Reading (%)
5.0	5.4
14.9	15.4
59.7	60.9

Carbon Dioxide (CO ₂)	
Certified Gas (%)	Instrument Reading (%)
5.0	5.3
15.1	15.6
40.3	40.3

Oxygen (O ₂)	
Certified Gas (%)	Instrument Reading (%)
21.2	21.0

As received Gas readings recorded at: 31.2 °C/88.2 °F

As received Barometric Pressure recorded at: 22.3 °C/72.2 °F

As received gas check readings are only recorded if the instrument is received in a working condition.
Where the instrument is received damaged no reading can be taken.

Date of Issue : 01 May 2026

Approved By Signatory

Kyle Racine
Laboratory Inspection

The calibration results published in this certificate were obtained using equipment capable of producing results that are traceable through NIST to the International System of Units (SI). Certification only applies to results shown. This certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory.

Calibration Instance: 114

IGC Instance: 114

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www.qedenv.com (800) 624-2026 info@qedenv.com

QED Environmental Systems Inc. 2355 Bishop Circle West, Dexter, MI 48130

CERTIFICATION OF CALIBRATION

Date Of Calibration: 30-Aug-2019



Certificate Number: GA12824_2/23874

Issued by: QED Environmental Systems Inc.

Customer:

Description:

Model: GA2000

Serial Number: GA12824

Accredited Results:

Methane (CH ₄)		
Certified Gas (%)	Instrument Reading (%)	Uncertainty (%)
5.0	5.0	0.41
15.0	15.1	0.65
50.0	49.4	1.05

Carbon Dioxide (CO ₂)		
Certified Gas (%)	Instrument Reading (%)	Uncertainty (%)
5.0	4.9	0.43
15.0	14.8	0.71
50.0	50.3	1.20

Oxygen (O ₂)		
Certified Gas (%)	Instrument Reading (%)	Uncertainty (%)
21.1	21.1	0.25

Gas cylinders are traceable and details can be provided if requested.

CH₄, CO₂ readings recorded at: 33.3 °C/91.9 °F

Barometric Pressure: 1009 mbar/29.81 "Hg

O₂ readings recorded at: 24.8 °C/76.6 °F

Method of Test : The analyzer is calibrated in a temperature controlled chamber using a series of reference gases, in compliance with procedure ISP17.

Instrument has passed calibration as the measurement result is within the specification limit. The specification limit takes into account the measurement uncertainty.

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95%. The uncertainty evaluation has been carried out in accordance with NIST requirements.

The calibration results published in this certificate were obtained using equipment capable of producing results that are traceable through NIST to the International System of Units (SI). Certification only applies to results shown. This certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory.

CERTIFICATION OF CALIBRATION



No. 66916



Date Of Calibration: 30-Aug-2019

Certificate Number: GA12824_2/23874

Issued by: QED Environmental Systems Inc.

Non Accredited results:

Barometer (mbar)	
Reference	Instrument Reading
1009 mbar / 29.81 "Hg	1009 mbar / 29.81 "Hg

Internal Flow	
Applied	Measured
5.0	5.0
10.0	9.97

As received gas check readings:

Methane (CH ₄)	
Certified Gas (%)	Instrument Reading (%)
5.0	5.4
14.9	15.4
59.7	60.9

Carbon Dioxide (CO ₂)	
Certified Gas (%)	Instrument Reading (%)
5.0	5.3
15.1	15.6
40.3	40.3

Oxygen (O ₂)	
Certified Gas (%)	Instrument Reading (%)
21.2	21.0

As received Gas readings recorded at: 33.3 °C/91.9 °F

As received Barometric Pressure recorded at: 24.8 °C/76.6 °F

As received gas check readings are only recorded if the instrument is received in a working condition.
Where the instrument is received damaged no reading can be taken.

Date of Issue : 01 May 2026

Approved By Signatory

Kyle Racine

Laboratory Inspection

The calibration results published in this certificate were obtained using equipment capable of producing results that are traceable through NIST to the International System of Units (SI). Certification only applies to results shown. This certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory.

Calibration Instance: 114

IGC Instance: 114

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QED Environmental Systems Inc. 2355 Bishop Circle West, Dexter, MI 48130

CERTIFICATION OF CALIBRATION

Date Of Calibration: 21-Feb-2019



No. 66916



Certificate Number: GA12824_1/22582

Issued by: QED Environmental Systems Inc.

Customer:

Description:

Model: GA2000

Serial Number: GA12824

Accredited Results:

Methane (CH ₄)		
Certified Gas (%)	Instrument Reading (%)	Uncertainty (%)
5.0	5.0	0.41
15.0	15.0	0.65
49.9	49.6	1.05

Carbon Dioxide (CO ₂)		
Certified Gas (%)	Instrument Reading (%)	Uncertainty (%)
5.0	4.9	0.43
15.0	14.9	0.71
50.1	50.4	1.20

Oxygen (O ₂)		
Certified Gas (%)	Instrument Reading (%)	Uncertainty (%)
21.0	21.0	0.25

Gas cylinders are traceable and details can be provided if requested.

CH₄, CO₂ readings recorded at: 34.9 °C/94.8 °F

Barometric Pressure: 1014 mbar/29.94 "Hg

O₂ readings recorded at: 26.4 °C/79.6 °F

Method of Test : The analyzer is calibrated in a temperature controlled chamber using a series of reference gases, in compliance with procedure ISP17.

Instrument has passed calibration as the measurement result is within the specification limit. The specification limit takes into account the measurement uncertainty.

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95%. The uncertainty evaluation has been carried out in accordance with NIST requirements.

The calibration results published in this certificate were obtained using equipment capable of producing results that are traceable through NIST to the International System of Units (SI). Certification only applies to results shown. This certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory.

CERTIFICATION OF CALIBRATION



No. 66916



Date Of Calibration: 21-Feb-2019

Certificate Number: GA12824_1/22582

Issued by: QED Environmental Systems Inc.

Non Accredited results:

Barometer (mbar)	
Reference	Instrument Reading
1014 mbar / 29.94 "Hg	1014 mbar / 29.94 "Hg

Internal Flow	
Applied	Measured
5.00	5.07
10.00	10.11

As received gas check readings:

Methane (CH ₄)	
Certified Gas (%)	Instrument Reading (%)
5.0	5.4
14.9	15.4
59.7	60.9

Carbon Dioxide (CO ₂)	
Certified Gas (%)	Instrument Reading (%)
5.0	5.3
15.1	15.6
40.3	40.3

Oxygen (O ₂)	
Certified Gas (%)	Instrument Reading (%)
21.2	21.0

As received Gas readings recorded at: 34.9 °C/94.8 °F

As received Barometric Pressure recorded at: 26.4 °C/79.6 °F

As received gas check readings are only recorded if the instrument is received in a working condition.
Where the instrument is received damaged no reading can be taken.

Date of Issue : 01 May 2026

Approved By Signatory

Kyle Racine

Laboratory Inspection

The calibration results published in this certificate were obtained using equipment capable of producing results that are traceable through NIST to the International System of Units (SI). Certification only applies to results shown. This certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory.

Calibration Instance: 114

IGC Instance: 114

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QED Environmental Systems Inc. 2355 Bishop Circle West, Dexter, MI 48130