



Kimberly-Clark Limited

Coleshill Mill, Flint

Updated H5 Site Condition Report; Factual Site Investigation Report

325144-R01 (02)

FEBRUARY 2021





RSK GENERAL NOTES

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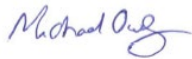
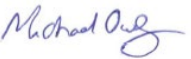
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Office: Spring Lodge, 172 Chester Road, Helsby WA6 0AR, Contact: Mike Owens

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Author	<u>Rebecca Chanter</u>	Technical reviewer	<u>Mike Owens</u>
Signature		Signature	
Date:	<u>5 February 2021</u>	Date:	<u>5 February 2021</u>
Project manager	<u>Mike Owens</u>		
Signature			
Date:	<u>5 February 2021</u>		

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Where field investigations have been carried out, these have been restricted to a level of detail required to achieve the stated objectives of the work.

This work has been undertaken in accordance with the quality management system of RSK Environment Ltd.

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1 INTRODUCTION

RSK Environment Limited (RSK) was commissioned by Kimberly Clark Limited to prepare an updated site condition report (SCR) for the permitted site at Coleshill Mill (EPR permit reference EPR/BJ9703IM). The report is referenced Coleshill Mill: Updated H5 Site Condition Report, ref. 325036-R1 (05), January 2021 and should be read in conjunction with this report.

The assessment carried out by RSK identified some gaps within the baseline data for the site, and collection of supplementary soil and groundwater data was recommended. This document presents a factual account of the supplementary investigation undertaken and its findings.

The investigation was completed in accordance with our proposal ref. 325144 TL01(01), dated 13 July 2017 and subsequent groundwater monitoring was undertaken in accordance with our proposal ref. 325336 TL01(00). At the request of NRW a further round of groundwater monitoring was carried out in January 2021, the results of which are included in this report.

1.1 Objectives

The overall objective of the project is to provide sufficient information regarding the soil and groundwater quality at the site to enable the additional requirements placed on the site by the Industrial Emissions Directive to be met. This report has been prepared with the specific objective of meeting condition 3 of the IED review document issued by Natural Resources Wales (NRW) on 5 April 2016, the details of which are referenced below.

Improvement Condition 3 (IC3)

IC3 within the IED review document relates to preparation of a report detailing the current soil and groundwater quality at the installation. It is reproduced below:

- *the Operator shall submit a report on the baseline conditions of soil and groundwater at the installation. The report shall contain the information necessary to determine the state of soil and groundwater contamination so as to make a quantified comparison with the state upon definitive cessation of activities provided for in Article 22(3) of the IED. The report shall contain information, supplementary to that already provided in the application Site Condition Report, needed to meet the information requirements of Article 22(2) of the IED.*

1.2 Scope

The scope of works for the investigation included the following:

- preparation and mobilisation for site works: Health and Safety and contractor coordination including site walkover
- final design and approval of exploratory hole location plan (inspection of service plans etc.)

- service clearance survey to avoid buried utilities
- intrusive investigation to include:
 - concrete coring in areas of hardstanding
 - hand digging of inspection pits or vacuum excavation to clear services
 - window sampling (boreholes drilled to a maximum depth of 5.90m below ground level)
 - soil sampling
 - well development to prepare for groundwater monitoring
 - groundwater monitoring and sampling – 2 rounds
 - surveying to Ordnance Datum (OD) of all monitoring installations
 - laboratory analysis of selected soil and groundwater samples for 'key' determinants based on the updated SCR
 - production of a factual and interpretive baseline environmental report suitable for provision to NRW alongside the updated Site Condition Report (SCR). This will include recommendations for frequency of groundwater monitoring.

1.3 Limitations

The comments given in this report and the opinions expressed are based on the ground conditions encountered during the site work and on the results of tests carried out in the field and in the laboratory. However, there may be conditions pertaining to the site that have not been disclosed by the investigation and therefore could not be considered.

Restrictions to sampling on site included the presence of current site operations under the existing permit, site infrastructure, foundations and buried services, as well as difficult ground conditions encountered at some locations. Groundwater levels and flows may vary from those reported due to seasonal, or other, effects.

This report is subject to the RSK service constraints given in Appendix A.

2 THE SITE

2.1 Site location and general description

The site is located on the western perimeter of the town of Flint, in Flintshire, North Wales. It is centred at approximate National Grid reference 323500, 373500. The location of the site is shown on Figure 1. The wider Kimberly Clark site, which includes Flint Mill and Coleshill Mill covers an area of approximately 34 hectares (ha.). The permitted area applying to the Coleshill Mill, Effluent Treatment Plant and two man-made lakes occupies an area of 10 ha. The layout of the installation is shown on Figure 2. The installation boundary is as attached to the Permit document itself and the boundary plan is noted to be not particularly clear.

The site is operated by Kimberly Clark Ltd. under EPR permit reference EPR/BJ9703IM and is regulated by NRW. The main activity at the Coleshill Mill is the manufacture of tissue paper products largely for the professional sector, which the plant produces at a quantity of approximately 36,000 tonnes per annum.

Specific activities operated under the permit include the paper mill, pulp manufacture from recycled paper (newsprint, office waste and corrugates), boiler house, water and effluent treatment plants and associated activities.

There are three main areas within the permitted site, the main paper mill and Coleshill Lake, the effluent treatment plant and Flint Lake. The permitted area also extends along the length of the effluent outfall pipe (underground) leading to the Dee estuary and includes two artificial lakes which are used as a source of emergency fire water.

The site slopes gradually from south west to north east between elevations of approximately 30m above ordnance datum (AOD) and 10m AOD respectively. A platform was created into the slope to permit the construction of Coleshill Mill (at 20m AOD) which has created a large engineered embankment to the west of this building.

Approximately half of the overall Kimberly Clark site is covered in hardstanding (tarmac or concrete) with the remainder comprising soft cover, woodland, rough vegetation or water bodies. The majority of the permitted area is covered in hardstanding of concrete or tarmac.

For this report, the site has also been grouped into Zone A and Zone B, (presented in Figure 3), to assist data presentation. Zone C was not investigated further despite a moderate/low risk being identified from a double skinned diesel tank in the area. This was on the basis that it was not feasible to add an exploratory position in this area as the pumphouse building was located beneath the tank. A recommendation was made to review containment to reduce the risks of releases to as low as possible.

Table 1: Site areas

Zone	Description
A	Chemical and waste storage and use in external areas
B	Chemical storage and hazardous waste material storage
A and B	Process water/effluent drainage system

3 SITE INVESTIGATION METHODOLOGY

RSK carried out an intrusive investigation on site between 6 and 8 August 2018. Groundwater monitoring and sampling was completed 17 August 2018. Details of the works undertaken are provided in the following sections.

3.1 Investigation strategy and methodology

The investigation strategy was designed to meet the objectives stated in section 1.1. The methodologies and investigation techniques were selected considering the target depths, requirements for groundwater monitoring installations, health and safety constraints (see section 3.1.1), surface cover and the anticipated ground conditions.

Diamond concrete coring was undertaken where exploratory hole locations were overlain by hardstanding.

Drive-in window sampling achieved moderate depths (up to c. 5.90 m) to investigate the made ground thickness and composition (if present) and shallow natural soils. The drive-in window sampling allowed for the installation of groundwater monitoring wells.

Vacuum excavation was used for all locations to a depth of 1.2m to limit any potential contact with underground pipework and services. Where required, concrete coring was undertaken to progress the borehole locations through areas of hardstanding.

All methods allowed for the collection of disturbed soil samples for subsequent laboratory analysis.

3.1.1 Health, safety and environment considerations

The project was undertaken in accordance with the Construction (Design and Management) Regulations 2015 with RSK acting as Principal Designer and Principal Contractor. The project was not notifiable to the Health and Safety Executive. A Construction Phase Health, Safety Environment and Quality (SHEQ) plan was developed by RSK before the investigation commenced.

Risk assessments and method statements were prepared in accordance with RSK's Safety, Health, Environment and Quality Management System (SHEQMS) accredited to ISO9001: 2008 (Quality Management System standard), ISO14001:2004 (Environmental Management System standard) and OHSAS18001:2007 (Occupational Health and Safety Management System standard). Method statements supplied by sub-contractors were reviewed and approved in advance of the investigation.

The following specific measures were taken before, during and following the works to manage the SHEQ risks associated with the works and to reduce the risk of incidents occurring:

- a pre-start meeting with held with the client on 13 July 2018 to discuss the details of the investigation, undertake a site walkover and obtain available pre-construction information

- plans for all major utility suppliers were obtained and reviewed when designing the investigation. These were supplemented by a detailed drawing provided by the client showing the locations of known under and over ground services and pipework
- ground penetrating radar (GPR) clearance was undertaken at all exploratory holes to locate any buried services. Clearance certificates were produced by the surveyor to identify the area surveyed and any findings, with any pipework clearly marked on the ground. If an exploratory hole position could not be relocated a safe distance from an underground service, it was abandoned
- as an added precaution against services, each location was scanned with a Cable Avoidance Tool (CAT) by the RSK supervising engineer before breaking the ground surface and service inspection pits were vacuum excavated to at least 1.2 m bgl before mechanical methods commenced
- waste was collected in dedicated skips for off-site disposal following completion of the investigation
- all monitoring wells were constructed with metal covers flush to the ground, to prevent trip hazards
- selected made ground samples were screened for asbestos to determine any additional requirements for managing potential risks from asbestos.

3.1.2 Investigation locations and constraints/limitations

The investigation included locations targeted to specific points of interest (POI) identified in the H5 report and non-targeted locations to provide an indication of groundwater quality up, mid and downgradient of the site.

There were many constraints to the investigation including the presence of current site operations under the existing permit, site infrastructure, foundations and buried services. Where possible, affected locations were relocated to attempt further investigation.

The investigation and soil logging were carried out in general accordance with BS5930: 2015 - Code of Practice for Ground Investigations (BSI, 2015) and comprised the following:

- ten window sampler probeholes
- installation of all ten window sampler probeholes (WS101, WS102, WS103, WS104, WS105, WS106, WS106A, WS107, WS108, WS109, WS110).

The rationale for the exploratory hole locations and specific constraints encountered during the planning and execution of the works is provided in Table 2 and 3 subdivided for the area of the site in which they were drilled.

Table 2: Site investigation strategy Zone A

Location	Rationale	Response zone depth (m bgl)	Comments / constraints
BH101	Former location of diesel day tank. Area for external chemical and waste storage. Site drainage. Up-gradient groundwater monitoring position, soil sampling. Detection of on/off site contaminant migration (if present).	0.5 – 1.5	Terminated at 1.60m depth on siltstone bedrock
BH103	External chemical and waste storage area. Site drainage. Groundwater monitoring position, soil sampling.	1.0 – 2.0	Terminated at 2.0m due to blowing sand
BH104	Drainage system. Effluent pipeline to ETP. Chemical and waste storage areas (internal). Down-gradient groundwater monitoring position, soil sampling.	2.0 – 3.0	Terminated at 4.0m
BH105	Drainage system. Chemical and waste storage areas (internal). Down-gradient groundwater monitoring position, soil sampling.	1.5 – 3.0	Terminated at 3.0m
BH106	Drainage system. Effluent pipeline to ETP. Chemical and waste storage areas. Up-gradient groundwater monitoring position, soil sampling. Detection of on/off site contaminant migration (if present).	N/A	Terminated at 1.05 due to the presence of a pipe in a portion of the inspection pit
BH106A	Drainage system. Effluent pipeline to ETP. Chemical and waste storage areas. Up-gradient groundwater monitoring position, soil sampling. Detection of on/off site contaminant migration (if present).	2.0 – 4.0	Drilled to replace BH106 which was abandoned due to a pipe. Terminated at 4.0m

It is important to note that at BH106 a possible buried service pipe, a suspected surface drain, was encountered in the inspection pit. A borehole was not drilled to the full proposed depth at this location and an adjacent position was selected (BH106A) to progress a borehole to the full depth. A shallow monitoring well was however installed in BH106 to a depth of 1.0m in response to the presence of suspected contamination and to allow water sampling (see Sections 4.1.3 and 4.2.2).

Table 3: Site investigation strategy Zone B

Location	Rationale	Response zone depth (m bgl)	Comments / constraints
BH107	External chemical and waste storage. Effluent pipeline. Groundwater monitoring position, soil sampling.	0.5 – 2.0	Terminated at 2.0m
BH108	Drainage system. Effluent pipeline. Chemical and waste storage areas. Down-gradient groundwater monitoring position.	3.9 – 5.9	Terminated at 5.9m depth on weathered sandstone (damp)
BH109	No specific source, validity position only. Up-gradient groundwater monitoring position, soil sampling. Detection of on/off site contamination migration (if present).	0.4 – 2.4	Terminated at 2.4m due to a refusal
BH110	Effluent storage. Groundwater monitoring position, soil sampling. Detection of on/off site contaminant migration (if present).	3.0 – 4.5	Terminated at 4.5m due to a refusal.

The investigation points and ground levels were recorded using a Leica SMARTNET Global Positioning System (GPS) accurate to +/- 1-2 cm plan and +/- 3 cm height.

The as-built exploratory hole locations are shown on Figures 4A and 4B, the exploratory hole logs are provided in Appendix B.

3.2 Soil sampling, in-situ testing and laboratory analysis

A total of 29 soil samples were collected and are recorded together with their depths and associated PID screening results on the exploratory hole logs provided in Appendix B. The samples were taken at a range of depths and included made ground and superficial deposits.

Selected samples were placed in foil-covered glass jars for headspace screening of volatile contaminants using a photo-ionisation detector (PID) fitted with a 10.2eV bulb. The PID was calibrated daily with isobutylene and fresh air with a carbon filter.

Selected samples (including at least one from each exploratory hole and including both made ground and superficial deposits) were scheduled for a range of laboratory tests based on the key contaminants of concern and those typically associated with the permitted activities in the relevant area of the site, as well as for consistency with existing baseline data.

The samples for geo-environmental analysis were collected in a variety of containers appropriate to the anticipated testing suite. The samples were stored in accordance with RSK's quality procedures to preserve and maintain its integrity, and to minimise the chance of cross contamination. They were transported to the UKAS-accredited testing laboratory by courier in chilled cool boxes under chain of custody documentation.

No geotechnical testing was undertaken.

3.3 Groundwater monitoring and sampling

3.3.1 Well development

The monitoring installations were developed at the end of the site works to remove any remaining fines and drilling water. Dedicated disposable bailers were used to remove at least three well volumes of water from the wells with water recycled back into the site's effluent treatment system.

3.3.2 Borehole monitoring

Return visits were undertaken on 17 August 2018 and 11 / 12 January 2021 to permit groundwater sampling, record depths to groundwater, any non-aqueous phase liquid (NAPL) and the base of installations. Readings were taken using a calibrated electronic interface probe, cleaned between locations to avoid cross contamination.

3.3.3 Sampling and analysis

Groundwater samples were collected from the ten installed wells for subsequent laboratory testing. The groundwater samples were retrieved using the United States Environment Protection Agency (USEPA) approved low-flow purging and sampling methodology. The low-flow method relies on moving groundwater through the well screen at c. the same rate as it flows through the geological formation. This results in a significant reduction in the volume of water extracted before sampling and significantly reduces the amount of disturbance of the water in the monitoring well during purging and sampling. Groundwater drawdown levels and water quality indicator parameters (pH, temperature, electrical conductivity, oxidation reduction potential (ORP) and dissolved oxygen) are monitored during low-flow purging and sampling, with stabilisation indicating that purging is complete, and sampling can begin. As the flow rate used for purging, in most cases, is the same or only slightly higher than the flow rate used for sampling, and because purging and sampling are conducted as one continuous operation in the field, the process is referred to as low-flow purging and sampling.

The in-situ water quality measurements undertaken during the low-flow sampling process are provided in Appendix C.

A total of 10 groundwater samples were collected per visit, in sampling bottles appropriate to the proposed testing suite and all were scheduled for chemical analysis. The bottles were filled and placed in a cool box to minimise volatilisation. The samples were then transported to the testing laboratory by courier under chain of custody documentation.

The samples were scheduled for a range of laboratory tests based on the key contaminants of concern associated with the targeted AOC (where relevant) and typically associated with the permitted activities.

4 SUMMARY OF FINDINGS

The factual results of the intrusive investigation, return monitoring and subsequent laboratory analysis are summarised below.

4.1 Ground conditions

The descriptions of the strata encountered, notes regarding visual or olfactory evidence of contamination, list of environmental samples taken, field observations of soil and groundwater, in-situ testing and details of monitoring well installations are included on the exploratory hole logs presented in Appendix B.

The exploratory holes revealed that the site is underlain by a variable thickness of made ground overlying superficial deposits of sands, gravels and clay, interpreted as Till. Bedrock was encountered within BH107 at a depth of 1.65 m and BH109 at a depth of 1.20 m comprising sandstone and siltstone, Bedrock was also intersected at the base of BH101 and BH108, where the boreholes were terminated on siltstone and weathered sandstone respectively.

4.1.1 Made ground

Six of the exploratory holes recorded a layer of hardstanding overlying the made ground deposits. BH110 was the only location to record grass overlying the made ground deposits with no hardstanding present. BH107, BH108 and BH109 recorded made ground deposits at the surface with no hardstanding or grass. It is noted that where hardstanding was present, the locations also included sub-base. The exceptions to this were BH107 and BH109, where the sub-base was encountered without the hardstanding.

The made ground layer beneath the hardstanding and sub-base where present typically consisted of slightly sandy slightly gravelly clay. The exceptions to this were BH108, where a sandy, gravelly clay was encountered at the surface and BH110 where grass onto slightly clayey slightly gravelly sand overlying sandy gravel was recorded. The various made ground types encountered during the investigation are summarised in Table 4.

Table 4: Summary of made ground encountered

Stratum		Thickness range (m bgl)	Exploratory holes
Surfacing	Hardstanding – concrete/tarmac	0.08 - 0.20	BH101, BH103, BH104, BH105, BH106, BH106A,
	Sub-base – sandy sub-angular to angular to angular gravel	0.10 – 0.32	BH101, BH103, BH104, BH105, BH106, BH106A, BH107, BH109
	Grass over slightly clayey slightly gravelly sand	0.25	BH110
Made ground	Slightly sandy slightly gravelly clay	0.35 – 0.65	BH103, BH105, BH106, BH106A,
	Sandy angular to sub-angular fine to medium gravel	0.35	BH110

4.1.2 Superficial deposits

Natural soils were encountered beneath the made ground at all locations except BH106, which terminated within the made ground. Natural strata was encountered from depths between 0.1 m and 2.5 m bgl and proven to a maximum depth of 5.9 m bgl, the base however was proven in a number of locations with bedrock encountered between 1.20 m and 5.9 m bgl. The natural soils were generally consistent across the site and comprised reddish brown to dark brown Till sands, gravels, silts and clays.

4.1.3 Observations of soil contamination

During the investigation there were limited olfactory and visual observations of contamination and field measurements using a photo-ionising detector (PID) recorded readings typically <1 parts per million (ppm), with maximum of 62 ppm measured in BH106 where hydrocarbon odours were also noted. Observations of note are summarised in Table 5.

Table 5: Summary of observations of contamination in soil

Exploratory hole ref.	Zone	Observation	Stratum/depth (m bgl)
BH106	Zone A	Hydrocarbon odour	Made ground 0.40 – 1.05
		PID reading – 28.0ppm	Made ground 0.40
		PID reading – 62.0ppm	Made ground 0.80
BH106A	Zone A	Hydrocarbon odour	Made ground 0.40 – 1.05
		PID reading – 12.0ppm	Till (clay) 1.20
		PID reading – 9.0ppm	Till (sand) 2.30

4.2 Groundwater

Details of the groundwater strikes during the investigation are shown on the exploratory hole logs presented in Appendix B. The groundwater monitoring results are detailed in Appendix C. A summary is presented below.

4.2.1 Strikes during site works

Groundwater was encountered during the drilling works at half the locations as shown in Table 6.

Table 6: Groundwater observations during intrusive works

Exploratory hole location	Zone	Groundwater strikes (m bgl)	Observations
BH103	Zone A	0.80	Water sitting at 0.80 m
BH104	Zone A	0.80	Groundwater encountered at 0.80 m

Exploratory hole location	Zone	Groundwater strikes (m bgl)	Observations
BH106A	Zone A	0.80	Water encountered at 0.80 m, slight sheen and hydrocarbon odour
BH107	Zone B	1.70	Water strike at 1.70 m, rising to 0.25 m
BH110	Zone B	1.90	Water resting at 1.90 m

4.2.2 Return monitoring levels

The groundwater levels recorded below ground level during the return monitoring rounds and the calculated elevations above Ordnance Datum (AOD) are summarised in Tables 7 and 8.

During the 2018 water monitoring round possible free product (floating oil) was detected at BH106 that possible free product (floating oil). The presence of measurable oil can be determined using an instrument known as an interface probe. When used at this borehole, this did not detect a measurable layer of oil but the instrument was greasy to the touch when withdrawn from the water. No further hydrocarbon observations were made in any other borehole during either this or subsequent monitoring rounds.

Table 7: Groundwater monitoring results (17 August 2018)

Monitoring well	Zone	Response zone	Top of monitoring pipe (m AOD)	Depth to water (m bgl)	Groundwater elevation (m AOD)
BH101	Zone A	Till	13.634	0.6	13.034
BH103	Zone A	Till	13.392	0.38	13.012
BH104	Zone A	Till	13.404	0.75	12.654
BH105	Zone A	Till	13.375	0.77	12.605
BH106	Zone A	Made ground	13.182	0.32	12.862
BH106A	Zone A	Till	13.182	0.1	12.862
BH107	Zone B	Till	13.149	2.9	13.049
BH108	Zone B	Till	15.337	0.95	12.437
BH109	Zone B	Siltstone	13.395	1.93	12.995
BH110	Zone B	Till	13.28	0.6	11.35

Table 8: Groundwater monitoring results (11 and 12 January 2021)

Monitoring well	Zone	Response zone	Top of monitoring pipe (m AOD)	Depth to water (m bgl)	Groundwater elevation (m AOD)
BH101	Zone A	Till	13.634	0.51	13.124
BH103	Zone A	Till	13.392	-0.02	13.412
BH104	Zone A	Till	13.404	0.56	12.844

Monitoring well	Zone	Response zone	Top of monitoring pipe (m AOD)	Depth to water (m bgl)	Groundwater elevation (m AOD)
BH105	Zone A	Till	13.375	0.81	12.565
BH106	Zone A	Made ground	13.182	0.13	13.052
BH106A	Zone A	Till	13.149	0.06	13.122
BH107	Zone B	Till	15.337	0.00	13.149
BH108	Zone B	Till	13.395	0.89	14.447
BH109	Zone B	Siltstone	13.28	0.40	12.995
BH110	Zone B	Till	13.634	1.60	11.68

Groundwater was recorded within the Till between 0.34 m and 1.80 m bgl in Zones A and B in 2018 and between near-ground level (at BH107) and . The groundwater in the made ground (BH106) was recorded at 0.35 m bgl in 2018 and 0.13m bgl in 2021. The groundwater within the siltstone was recorded at 1.93 m bgl in 2018 and 0.40m bgl in 2021.

None of the well installations were recorded as being dry during the monitoring round on the 17th August or the monitoring round on the 11th and 12th January 2021.

Based on the available monitoring data the level of groundwater across the site can be compared and the groundwater flow direction inferred. The overall groundwater flow direction at the Coleshill site varies between the two zones but is generally to the north and east in line with the natural topography of the site and surrounding area, nearby drainage, Swinchiard Brook (the stream flowing through Flint, 30m east of the site) and also towards the River Dee. Site plans showing the groundwater contours and interpreted flow direction during each monitoring round are presented as Figure 5 and Figure 6. As can be seen in the contour plots, in Zone A the groundwater flow direction is to the north east and in Zone B the flow direction is to the east (slightly south east in 2018). As the plots show, taking the groundwater flow direction into account, the boreholes are suitably positioned with respect to areas of potential concern with upgradient and downgradient boreholes in each area (BH101, BH103 upgradient and BH104, BH105 downgradient for Zone A, BH107 upgradient and BH109, BH108, mid-gradient and BH110 downgradient for Zone B).

BH108 recorded a groundwater depth of 2.9m bgl in the first monitoring round and a depth of 0.89 during the second monitoring round. The cause of this difference in elevation is not known but the resulting groundwater elevation in the 2021 data (14.45mAOD) is significantly different to the other boreholes and as such this data has been left out of Figure 6.

During drilling of BH107 a strike and rapid groundwater rise was record on encountering the bedrock. This is possibly evidence of a confined groundwater body in the bedrock beneath the stiff clay.

4.2.3 Observations of groundwater contamination

During the monitoring round in August 2018 odours were not detected in the majority of the samples, with the exception of BH106 where a hydrocarbon odour was detected. Minor brown sediment was noted in the sample for BH106A, the remainder of the samples were recorded as not having sediment present. Samples from BH101 and BH104 were recorded as being orange/ brown and opaque and slightly brownish respectively. Samples from BH106A and BH108 were both recorded as being light brown.

In January 2021 odours were not detected in groundwater recovered from any of the boreholes. Groundwater in BH105 and BH106A was noted to have some sediment present, with no sediment recorded in the remaining samples. The majority of the samples of water collected were reported to be transparent and colourless with the exception of BH105 which was slightly opaque and a light orange brown and BH106A which was slightly opaque and a very light brown

4.3 Summary of chemical results - soil

The soil laboratory testing certificates are presented in Appendix D.

4.3.1 Zone A summary

In order to present a concise summary of the findings we have presented only those analytes which were reported at concentrations in soil samples above the laboratory limit of detection (LODs). This information presented in Table 9 below. The analytes for which no concentrations above LOD were reported in samples of soil collected in Zone A were: arsenic, selenium, asbestos and phenols.

Table 9: Soil analytes with concentrations present above LODs in Zone A

Analyte	Unit	Max	Min (ex. LOD)	Number of samples tested
Metals and Inorganics				
Cadmium	mg/kg	0.9	0.5	16
Copper	mg/kg	70	10	16
Chromium	mg/kg	86	6	16
Lead	mg/kg	57	2	16
Mercury	mg/kg	0.41	0.19	16
Nickel	mg/kg	168	5	16
Zinc	mg/kg	389	8	16
Petroleum Hydrocarbons				
Ali >C6-C8	mg/kg	0.10	0.10	7
Ali >C8-C10	mg/kg	17	17	7
Ali >C10-C12	mg/kg	38	2	7
Ali >C12-C16	mg/kg	192	21	7

Analyte	Unit	Max	Min (ex. LOD)	Number of samples tested
Ali >C16-C21	mg/kg	264	27	7
Ali >C21-C35	mg/kg	74	2	7
Total Aliphatics	mg/kg	585	2	7
Aro >C8-C10	mg/kg	12	12	7
Aro >C10-C12	mg/kg	51	2	7
Aro >C12-C16	mg/kg	229	24	7
Aro >C16-C21	mg/kg	213	25	7
Aro >C21-C35	mg/kg	63	3	7
Total Aromatics	mg/kg	569	3	7
TPH (Ali & Aro) (>C5 -C35)	mg/kg	1150	5	7
TPH total (>C6-C40)	mg/kg	35	11	2
BTEX – Ethyl Benzene	mg/kg	0.02	0.02	7
Polycyclic aromatic hydrocarbons (PAHs)				
Acenaphthene	mg/kg	0.03	0.03	5
Fluorene	mg/kg	0.11	0.11	5
Phenanthrene	mg/kg	0.23	0.23	5
Total PAH-16	mg/kg	0.37	0.37	5
Volatile Organic Compounds (VOC)				
Ethylbenzene	µg/kg	2	2	7
m and p Xylene	µg/kg	1	1	7
Isopropylbenzene	µg/kg	3	3	7
n-Propylbenzene	µg/kg	4	4	7
1,3,5-Trimethylbenzene	µg/kg	2	2	7
1,2,4-Trimethylbenzene	µg/kg	15	15	7
Sec-Butylbenzene	µg/kg	3	1	7
4-Isopropyltoluene	µg/kg	3	3	7
n-Butylbenzene	µg/kg	3	3	7
Semi-Volatile Organic Compounds (SVOC)				
Acenaphthene	µg/kg	1600	1600	5
Fluorene	µg/kg	3100	3100	5
Phenanthrene	µg/kg	5480	5480	5
Pyrene	µg/kg	1340	1340	5

Analyte	Unit	Max	Min (ex. LOD)	Number of samples tested
Naphthalene	µg/kg	2320	2320	5
Dibenzofuran	µg/kg	1110	1110	7
% Stones >10mm	% w/w	27.4	1.8	17
pH	pH	8.56	7.55	15
Sulphide	mg/kg	9	6	7
Sulphate (acid soluble)	mg/kg	440	220	7
Total Organic Carbon	% w/w	2.16	0.20	9

4.3.2 Zone B summary

Analytes in soil with concentrations present above Limits of Detection (LODs) in Zone B, are presented in Table 10 below to provide an overall summary of the concentrations recorded. The analytes for which no concentrations above LOD were reported in samples of soil collected in Zone B were: asbestos, SVOCs (including phenols and PAHs)

Table 10: Soil analytes with concentrations present above LODs in Zone B

Analyte	Unit	Max	Min (ex. LOD)	Number of samples tested
Metals and Inorganics				
Arsenic	mg/kg	52	2	8
Cadmium	mg/kg	1.4	1.0	8
Copper	mg/kg	116	8	8
Chromium	mg/kg	21	5	8
Lead	mg/kg	372	2	8
Mercury	mg/kg	0.31	0.25	8
Nickel	mg/kg	40	4	8
Selenium	mg/kg	2	2	8
Zinc	mg/kg	230	6	8
Petroleum Hydrocarbons				
Ali >C12-C16	mg/kg	3	3	1
Ali >C16-C21	mg/kg	7	7	1
Ali >C21-C35	mg/kg	52	52	1
Total Aliphatics	mg/kg	63	63	1
Aro >C8-C10	mg/kg	6	6	1
Aro >C12-C16	mg/kg	2	2	1

Analyte	Unit	Max	Min (ex. LOD)	Number of samples tested
Aro >C16-C21	mg/kg	4	4	1
Aro >C21-C35	mg/kg	30	30	1
Total Aromatics	mg/kg	43	43	1
TPH (Ali & Aro) (>C5 -C35)	mg/kg	105	105	1
TPH total (>C6-C40)	mg/kg	12	12	3
% Stones >10mm	% w/w	36.4	0.9	12
pH	pH	11.28	7.93	6
Sulphide	mg/kg	10	7	2
Sulphate (acid soluble)	mg/kg	2300	360	3
Total Organic Carbon	% w/w	0.74	0.74	1

4.4 Summary of chemical results - groundwater

We present below the results of analysis of samples collected during both the 2018 and 2021 monitoring visits. The groundwater laboratory testing certificates are presented in Appendix E.

4.4.1 Zone A summary

The maximum concentration of analytes in groundwater with concentrations **reported above LODs** in Zone A are presented in Table 11 below.

In the samples collected in 2018, no concentrations of cadmium lead, mercury, hexavalent chromium or sulphide were recorded above detection limits in any sample. No PAH compounds were reported in samples collected from Zone A.

In the samples collected in 2021 no concentrations of SVOCs or VOCs, cadmium hexavalent chromium and mercury were recorded above detection limits in any sample collected.

4.4.2 Zone B summary

The maximum concentration of analytes in groundwater with concentrations reported **above LODs** in Zone B are presented in Table 12 below.

In the samples collected in 2018, no concentrations of cadmium lead, mercury, hexavalent chromium or sulphide were recorded above detection limits in any sample. No PAH compounds were reported in samples collected from Zone B.

In the samples collected in 2021 no concentrations of VOCs, hexavalent chromium cadmium or mercury were recorded above detection limits in any sample.

Table 11: Analytes with concentrations present above LODs in Zone A

Analyte	Units	Max 2018	Max 2021	Number of samples tested
Metals and inorganics				
Ammoniacal nitrogen (w)	mg/l	0.29	0.37	6
Chloride (w)	mg/l	122	79	6
Sulphate (w)	mg/l	153	545	6
Sulphide (w)	mg/l	N/A	0.3	6
Arsenic (dissolved)	µg/l	20	16	6
Boron (dissolved)	µg/l	96	87	6
Copper (dissolved)	µg/l	10	16	6
Chromium (dissolved)	µg/l	31	9	6
Lead (dissolved)	µg/l	N/A	1	6
Nickel (dissolved)	µg/l	2	6	6
Selenium (dissolved)	µg/l	17	10	6
Zinc (dissolved)	µg/l	2	110	6
Petroleum Hydrocarbons				
Ali >C10-C12	µg/l	11	N/A	6
Ali >C12-C16	µg/l	93	N/A	6
Ali >C16-C21	µg/l	111	N/A	6
Ali >C21-C35	µg/l	11	N/A	6
Total Aliphatics	µg/l	224	N/A	6
Aro >C8-C10	µg/l	12	7	6
Aro >C10-C12	µg/l	155	15	6
Aro >C12-C16	µg/l	111	82	6
Aro >C16-C21	µg/l	109	51	6
Aro >C21-C35	µg/l	40	30	6
Total Aromatics	µg/l	327	185	6
TPH (Ali & Aro) (>C5 -C35)	µg/l	551	185	6
Volatile Organic Compounds (VOC)				
4-Isopropyltoluene	µg/l	2	N/A	6
Semi-Volatile Organic Compounds (SVOC)				
n-Dibutylphthalate	µg/l	1	N/A	6
Dimethyl phthalate	µg/l	2	N/A	6
Other analytes				
pH (w)	pH	8.3	8.34	6
Electrical conductivity @ 20degC (w)	µs/cm	876	1494	6
Dissolved oxygen content (w)	mg/l	N/A	5.2	6
Hardness Total	mg/l Ca CO ₃	411	296	6

Table 12: Analytes with concentrations present above LODs in Zone B

Analyte	Units	Max 2018	Max 2021	Number of samples tested
Metals and inorganics				
Ammoniacal nitrogen (w)	mg/l	10.8	8.47	4
Chloride (w)	mg/l	61	69	4
Sulphate (w)	mg/l	139	87	4
Sulphide (w)	mg/l	N/A	0.3	4
Arsenic (dissolved)	µg/l	1	1	4
Boron (dissolved)	µg/l	61	99	4
Copper (dissolved)	µg/l	77	34	4
Chromium (dissolved)	µg/l	13	21	4
Lead (dissolved)	µg/l	14	11	4
Nickel (dissolved)	µg/l	50	158	4
Selenium (dissolved)	µg/l	2	N/A	4
Zinc (dissolved)	µg/l	5	7	4
Petroleum hydrocarbons				
Ali >C5-C6	µg/l	N/A	3	4
Ali >C6-C8 (w)	µg/l	2	5	4
Ali >C10-C12 (w)	µg/l	54	47	4
Ali >C12-C16 (w)	µg/l	11	N/A	4
Total Aliphatics	µg/l	68	55	4
Aro >C5-C7	µg/l	N/A	2	4
Aro >C7-C8 (w)	µg/l	9	5	4
Aro >C8-C10 (w)	µg/l	25	19	4
Aro >C10-C12 (w)	µg/l	169	117	4
Aro >C12-C16 (w)	µg/l	43	44	4
Aro >C16-C21 (w)	µg/l	33	18	4
Aro >C21-C35	µg/l	N/A	12	4
Total Aromatics	µg/l	279	217	4
TPH (Ali & Aro) (>C5 -C35)	µg/l	347	272	4
BTEX – Benzene (w)	µg/l	2	2	4
BTEX - Toluene (w)	µg/l	9	5	4

Analyte	Units	Max 2018	Max 2021	Number of samples tested
Volatile Organic Compounds (VOC)				
Toluene	µg/l	6	4	4
Semi-Volatile Organic Compounds (SVOC)				
2-Methylphenol	µg/l	2	N/A	4

Analyte	Units	Max 2018	Max 2021	Number of samples tested
4-Methylphenol	µg/l	2	N/A	4
Phenol	µg/l	22	N/A	4
Other analytes				
pH (w)	pH	11.7	13.42	4
Electrical conductivity @ 20degC (w)	µs/cm	6530	10130	4
Hardness (Alkalinity)Total	mg/l Ca CO ₃	1390	2120	4
Dissolved oxygen content (w)	mg/l	N/T	83	4

4.5 Discussion

Concentrations above the LOD were typically identified groundwater samples collected at the following locations in August 2018 and in January 2021:

- BH101
- BH106/BH106A
- BH110.

Concentrations of metals above the LOD were encountered in samples collected from all boreholes during the January 2021 monitoring visit and concentrations of TPH and toluene encountered above the LOD found in BH110 and BH106.

BH101 is adjacent (within 20m) to the former diesel day tank providing a possible explanation of elevated hydrocarbon concentration in groundwater at this position. The soils in BH106 were noted to have a hydrocarbon odour and this is suspected to be linked to the presence of a service trench at this location. The soil at this position is predominantly cohesive which would be expected to restrict the vertical migration to greater depth and indeed chemical test results for the soil show decreasing concentrations with greater depth. Low concentrations were reported in soil at the nearby BH106A indicating localised and shallow contamination only at BH106.

BH110 was positioned directly beneath the location of a former clarifier. Ammoniacal nitrogen, copper, lead, SVOC and TPH were identified above LOD at this position in 2018 with ammoniacal nitrogen, boron, copper, chromium, lead, nickel, zinc, toluene and TPH reported in the sample collected in 2021.

Comparison of the results of analysis of groundwater samples collected in 2018 and 2021 presented in tables 10 and 11 above shows that the concentrations of contaminants are very similar in both rounds and lower with respect to hydrocarbon contaminants in both Zones A and B.

5 SUMMARY

RSK has undertaken an investigation at the Coleshill Mill site to update the baseline data for soil and groundwater. It should be read in conjunction with the SCR document (RSK report ref. 325036-R1 (05)).

The intrusive investigation on the site was carried out between 6 and 8 August 2018 and comprised ten, drive-in window sampler boreholes advanced up to a maximum of 5.90 m below ground level (bgl). The exploratory hole locations were designed to target specific points of interest (POI) identified in the SCR, in addition to providing an indication of groundwater quality up, mid and downgradient of the site. All ten boreholes were installed with a groundwater monitoring well to facilitate future groundwater monitoring and sampling. Two groundwater monitoring and sampling rounds have been undertaken, one on 17 August 2018 shortly after borehole installation and one on the 11 and 12 January 2021.

The investigation recorded a variable thickness of made ground overlying superficial deposits of sands, gravels and clay (identified as Glacial Till). Bedrock was encountered within BH107 and BH109 and was found at the base of BH101 and BH108. These boreholes terminated on siltstone and weathered sandstone respectively. Groundwater was struck within half of the boreholes during the investigation and return monitoring recorded a groundwater table beneath the site resting within the Till at between 0.34 m and 1.80 m bgl in August 2018 and between ground level and 1.60m bgl in January 2021.

Based on the available monitoring data, overall groundwater flow direction is interpreted to be to the east / south east, toward nearby drainage, streams and the Dee Estuary beyond and in line with the site's topography. The groundwater contour plots provided in Figures 5 and 6 indicate that the exploratory locations are positioned in such a way to provide groundwater data both up and down gradient of key sources (APC) and at the downgradient boundaries.

There were limited olfactory and visual observations of contamination within the soil samples taken and PID readings were typically <1 ppm, with the highest PID reading 62.0ppm in BH106 associated with a hydrocarbon odour at shallow depth. Possible free product was noted during the water monitoring at BH106 in 2018 which was terminated at 1.0m bgl due to a suspected buried service, but it is important to note that the adjoining borehole BH106A did not encounter such contamination in 2018. The contaminants identified at BH106 are suspected to be localised and associated with a buried service trench. Possible free product was not noted at any of the borehole locations during the January 2021 monitoring round.

The laboratory results reported generally low concentrations of contaminants in both soil and groundwater but with some analytes above the laboratory limit of detection (LOD) including metals, inorganic and organic compounds (VOC, and petroleum hydrocarbons).

REFERENCES

British Standards Institution (2015), 'BS 5930:2015. Code of practice for ground investigations'.

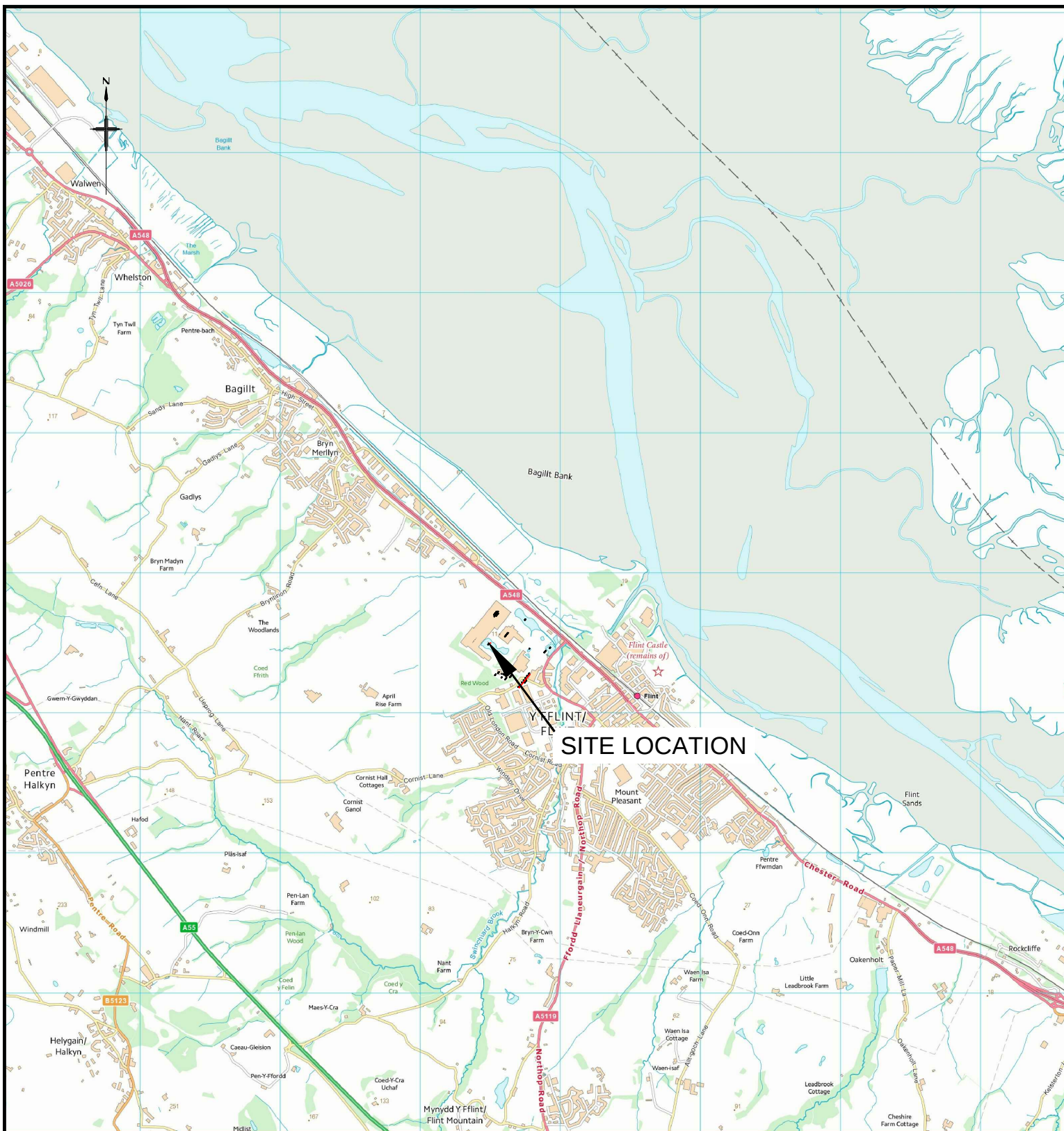
British Standards Institution (2013), 'BS 10175:2013. Investigation of potentially contaminated sites: Code of practice'.

Environment Agency (2004), Model Procedures for the Management of Contaminated Land. Contaminated Land Report Number 11 (CLR11), September (Bristol: Environment Agency).

Natural Resources Wales. Kimberly Clark, Flint, Permit reference EPRBJ9703/IM, 31 March 2016;

Natural Resources Wales IED Kimberly Clark, Flint Permitting Decisions Document.

FIGURES



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Spring Lodge
172 Chester Road
Helsby
Cheshire
WA6 0AR

Tel: +44 1928 726006
Fax: +44 1928 725633

Web: www.rsk.co.uk

Client

KIMBERLEY CLARK LIMITED

Project Title

COLESHILL MILL

Drawing Title

SITE LOCATION PLAN

Drawn

Date

HD

25.09.18

Checked

Date

RC

25.09.18

Approved

Date

RC

25.09.18

Project No.

325144

Drawing File

325144-R01(00)D001A

Scale
NTS

Orig Size

A4

Dimensions

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Drawing No.

FIGURE 1

Rev.

A



Legend:

Site Boundary

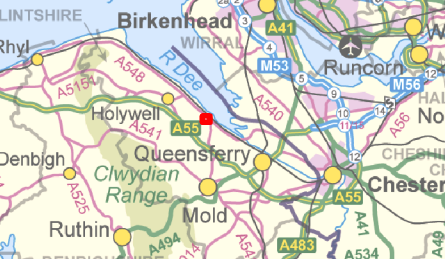
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Rev	Date	Description	Drn	Chk	App
Kimberly Clarke, Flint					
TITLE: Figure 2: Site Layout Plan showing Coleshill Mill					
0 50 100 Metres SCALE: 1:3,000 @ A3			 REV 00		



- Legend:
- Site Boundary
 - Indicative Permit Boundary
 - Effluent
 - Effluent Route Outside Site Boundary
 - Layout Plan Areas

Coordinate System: British National Grid
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Datum: OSGB 1936
Units: Meter

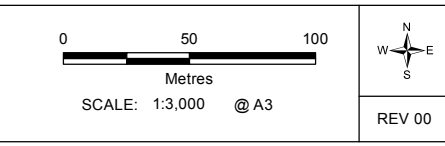


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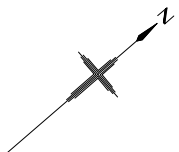


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Site Layout Plan Including
Permit Boundary



LEGEND:

- Proposed borehole location
- Effluent route



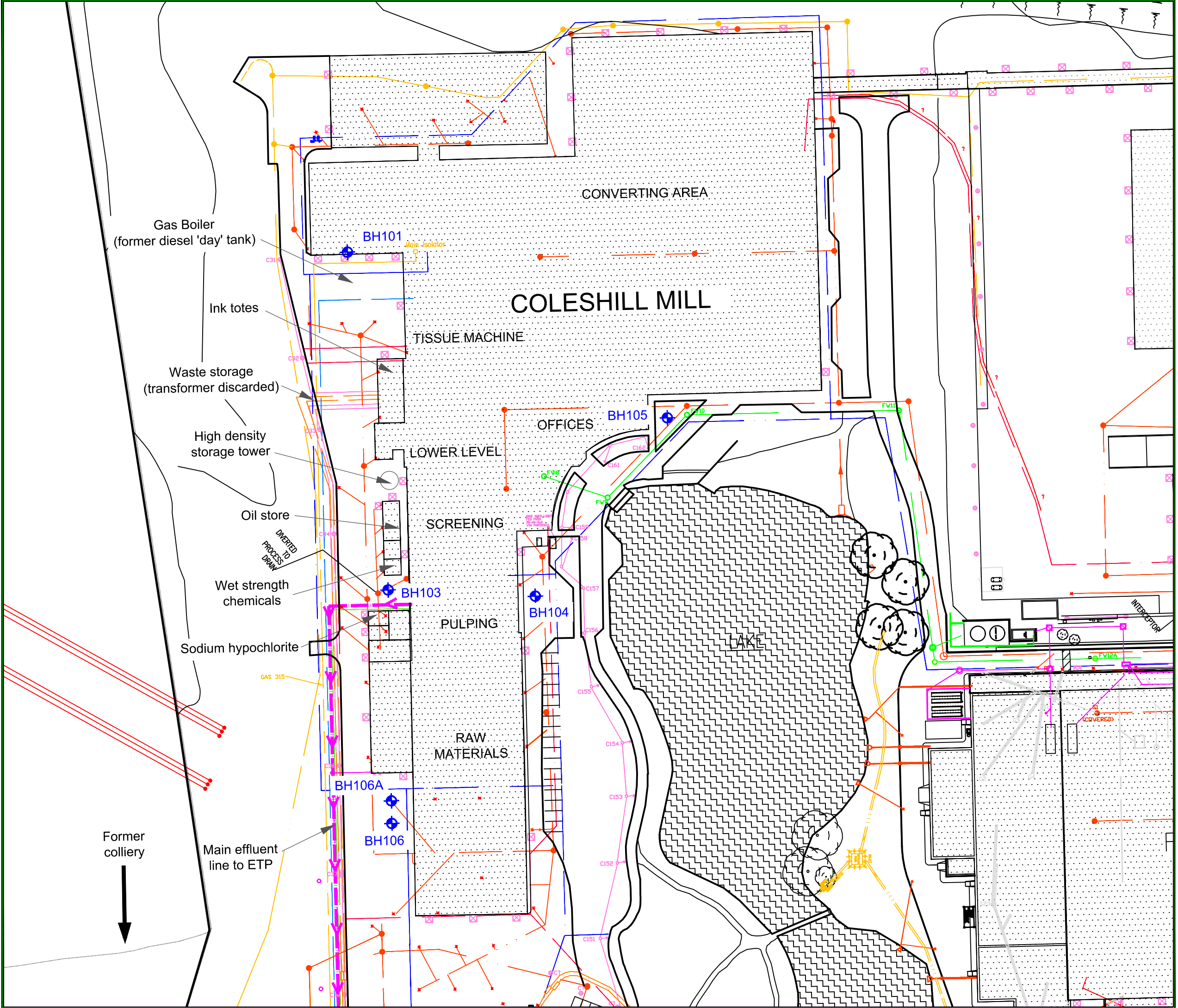
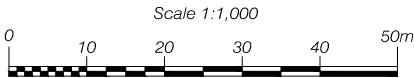
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Spring Lodge
172 Chester Road
Hebby
Cheshire
WA6 0AR

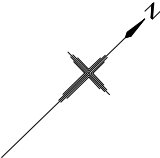
Tel: +44 1928 726006
Fax: +44 1928 725633
Web: www.rsk.co.uk

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PROJECT						COLESHILL MILL, FLINT					
TITLE						EXPLORATORY HOLE LOCATIONS - ZONE A					
JOB No.:						DRAWING FILE:					
325144						325144-R01(00)D004a					
BY:		DATE:		CONTRACT NO.		FIGURE 4a				REV:	
HD		09.10.18								A	



LEGEND:

- Borehole location
- Effluent route



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REV	DATE	DESCRIPTION	BY	CHD.	APR.
Dimensions		Projection	Scale	Orig Size	
m			AS SHOWN	A3	



Spring Lodge
172 Chester Road
Hebby
Cheshire
WA6 0AR

Tel: +44 1928 726006
Fax: +44 1928 725633
Web: www.rsk.co.uk

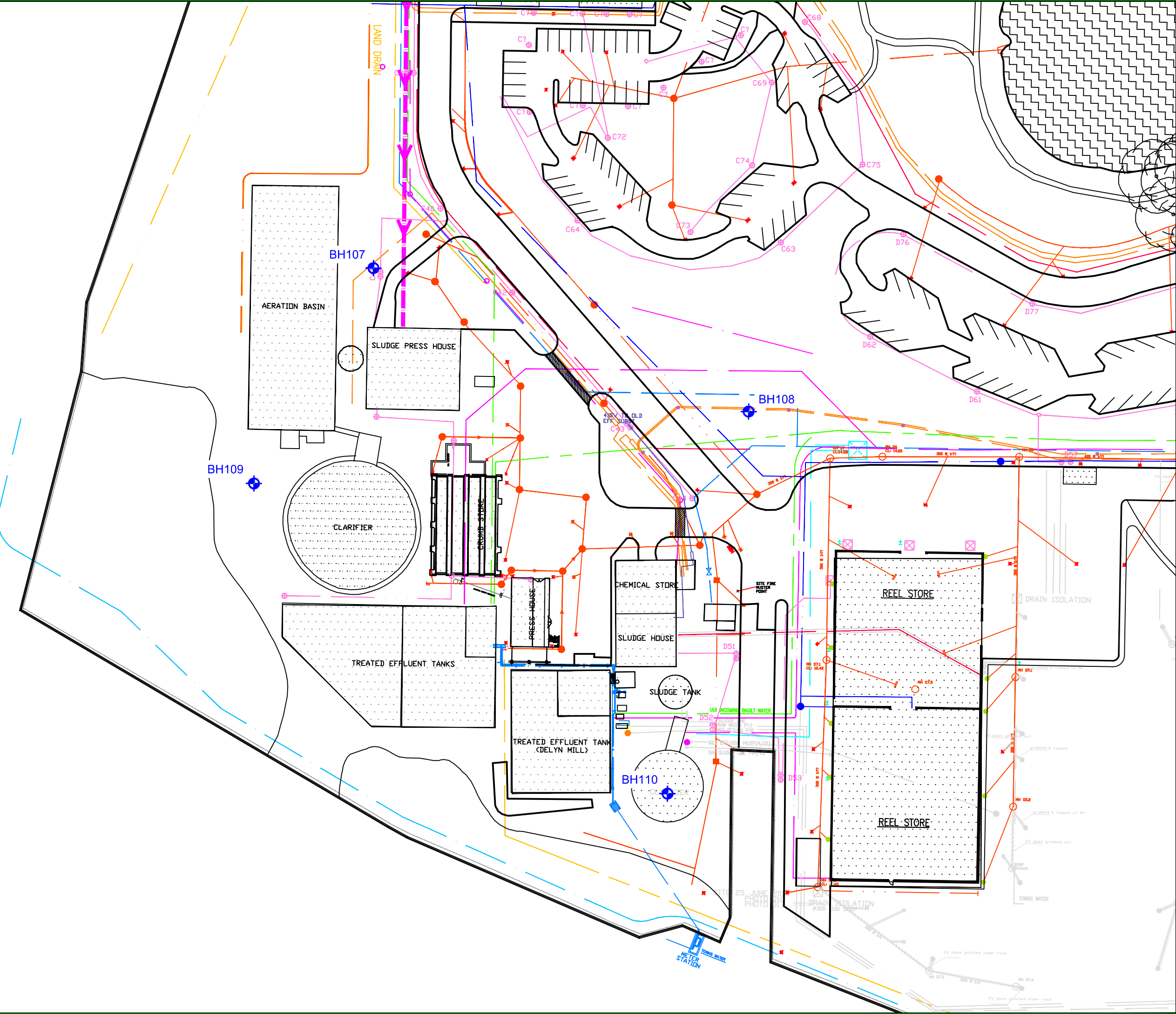
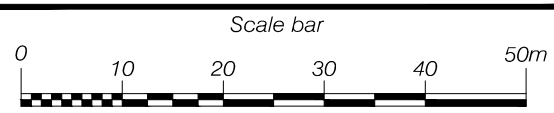
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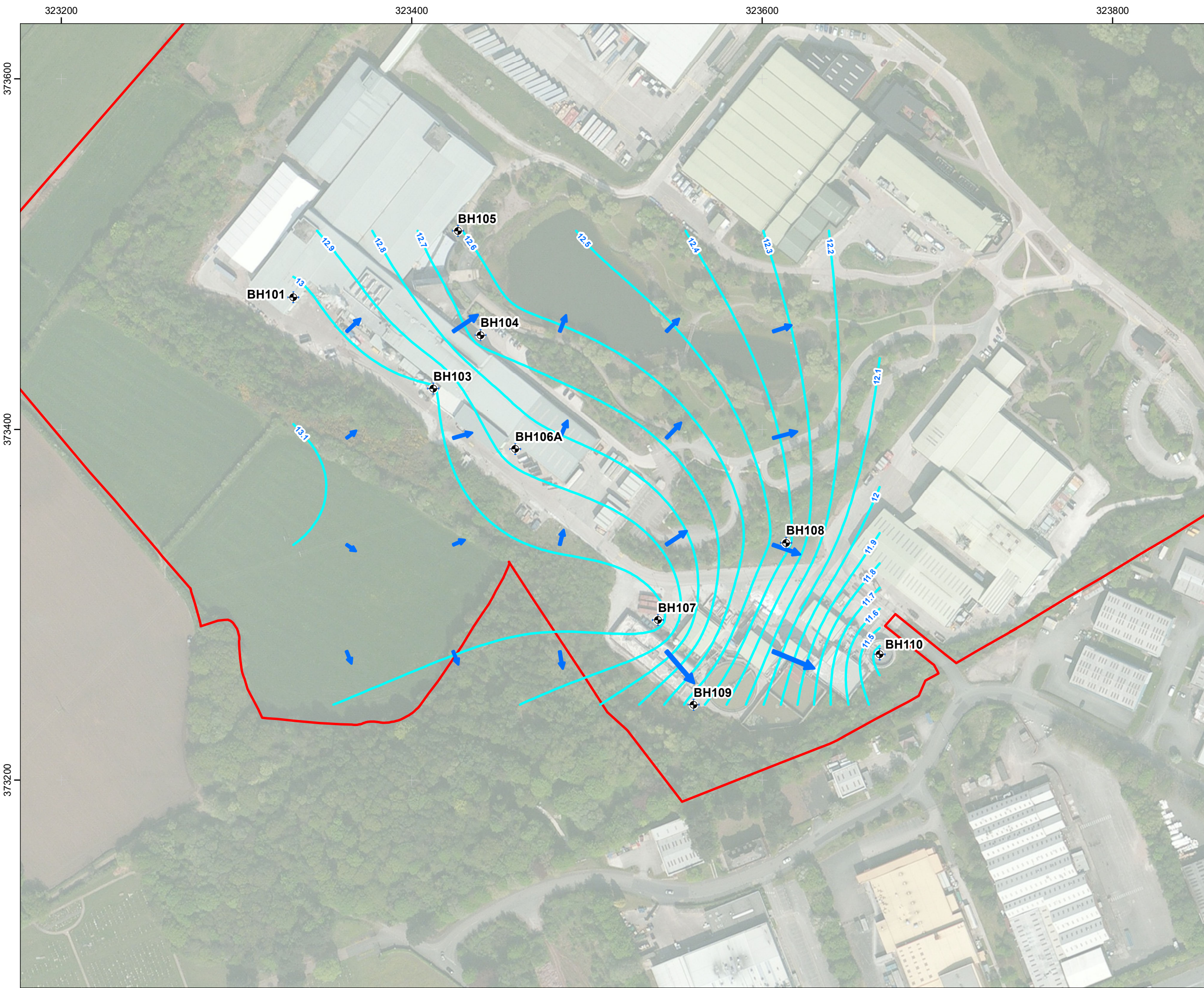
PROJECT
COLESHILL MILL, FLINT

TITLE
**EXPLORATORY HOLE LOCATIONS -
ZONE B**

JOB No.: **325144** DRAWING FILE: **325144-R01(00)D004b**

BY:	DATE:	CONTRACT NO.	REV:
HD	09.10.18		A





- Legend:**
- Site Boundary
 - Borehole Locations
 - Inferred Groundwater Flow Direction
 - Inferred Groundwater Elevation mAOD

Coordinate System: British National Grid
Projection: Transverse Mercator
Datum: OSGB 1936
Units: Meter

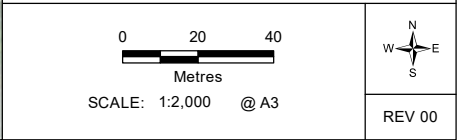


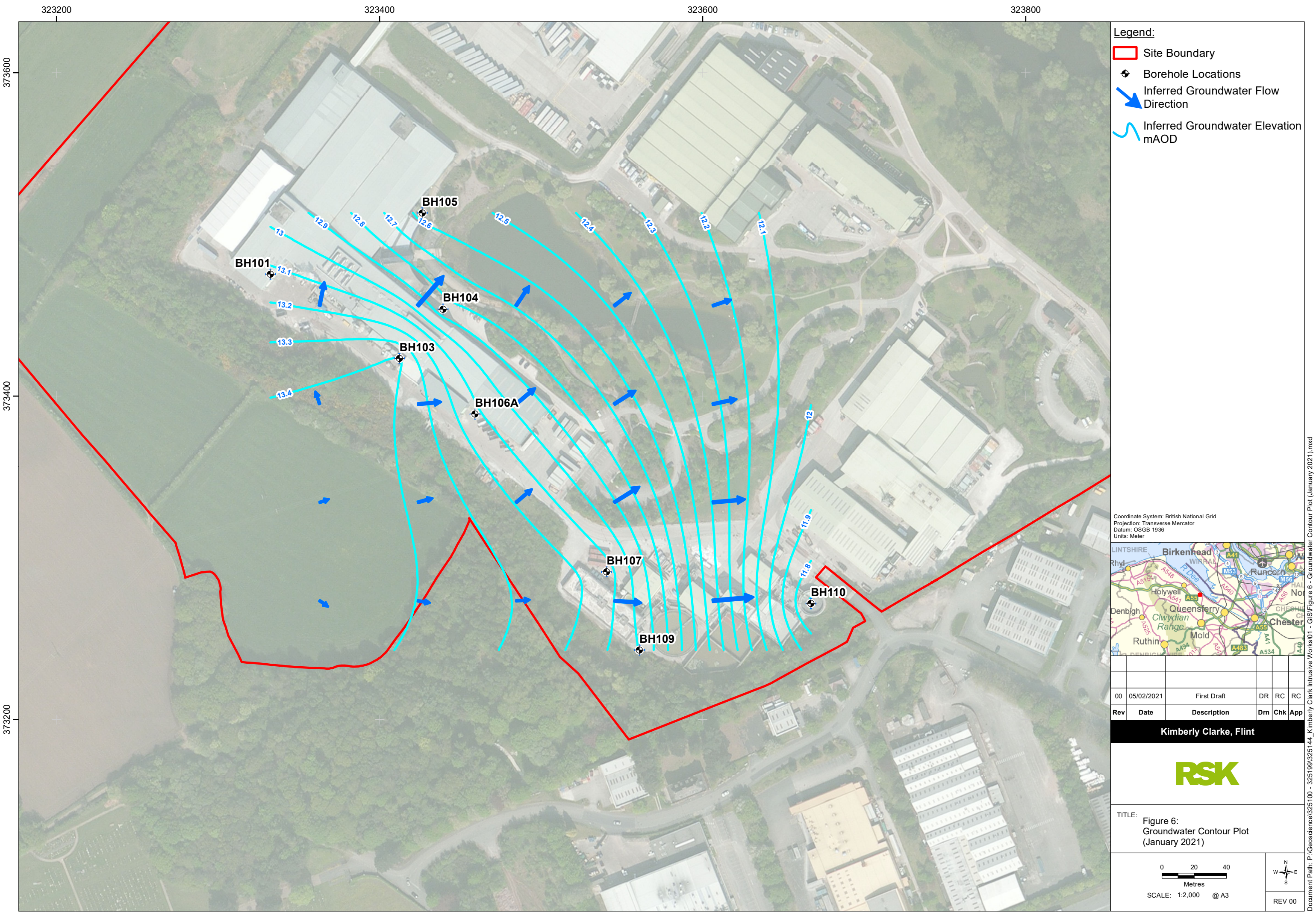
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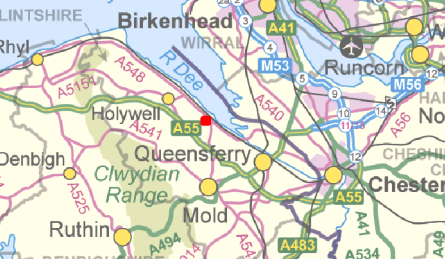
TITLE: Figure 5:
Groundwater Contour Plot
(August 2018)





- Legend:
- Site Boundary
 - Borehole Locations
 - Inferred Groundwater Flow Direction
 - Inferred Groundwater Elevation mAOD

Coordinate System: British National Grid
Projection: Transverse Mercator
Datum: OSGB 1936
Units: Meter



Rev	Date	Description	Drm	Chk	App
00	05/02/2021	First Draft	DR	RC	RC

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TITLE: Figure 6:
Groundwater Contour Plot
(January 2021)

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SCALE: 1:2,000 @ A3

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APPENDIX A

SERVICE CONSTRAINTS

1. This report and the site investigation carried out in connection with the report (together the "Services") were compiled and carried out by RSK Environment Limited (RSK) for Kimberly Clark Limited (the "Client") in accordance with the terms of a contract between RSK and the Client, dated 13 July 2017. The Services were performed by RSK with the reasonable skill and care ordinarily exercised by an environmental consultant at the time the Services were performed. Further, and in particular, the Services were performed by RSK taking into account the limits of the scope of works required by the client, the time scale involved and the resources, including financial and manpower resources, agreed between RSK and the Client.
2. Other than that, expressly contained in paragraph 1 above, RSK provides no other representation or warranty whether express or implied, in relation to the Services.
3. Unless otherwise agreed in writing, the Services were performed by RSK exclusively for the purposes of the Client. RSK is not aware of any interest of or reliance by any party other than the Client in or on the Services. Unless expressly provided in writing, RSK does not authorise, consent or condone any party other than the client relying upon the Services. Should this report or any part of this report, or otherwise details of the Services or any part of the Services be made known to any such party, and such party relies thereon that party does so wholly at its own and sole risk and RSK disclaims any liability to such parties. **Any such party would be well advised to seek independent advice from a competent environmental consultant and/or lawyer.**
4. It is RSK's understanding that this report is to be used for the purpose described in the introduction to the report. That purpose was a significant factor in determining the scope and level of the Services. Should the purpose for which the report is used, or the proposed use of the site change, this report may no longer be valid and any further use of or reliance upon the report in those circumstances by the client without RSK's review and advice shall be at the client's sole and own risk. Should RSK be requested to review the report after the date of this report, RSK shall be entitled to additional payment at the then existing rates or such other terms as agreed between RSK and the client.
5. The passage of time may result in changes in site conditions, regulatory or other legal provisions, technology or economic conditions which could render the report inaccurate or unreliable. The information and conclusions contained in this report should not be relied upon in the future without the written advice of RSK. In the absence of such written advice of RSK, reliance on the report in the future shall be at the Client's own and sole risk. Should RSK be requested to review the report in the future, RSK shall be entitled to additional payment at the then existing rate or such other terms as may be agreed between RSK and the client.
6. The observations and conclusions described in this report are based solely upon the Services which were provided pursuant to the agreement between the Client and RSK. RSK has not performed any observations, investigations, studies or testing not specifically set out or required by the contract between the client and RSK. RSK is not liable for the existence of any condition, the discovery of which would require performance of services not otherwise contained in the Services. For the avoidance of doubt, unless otherwise expressly referred to in the introduction to this report, RSK did not seek to evaluate the presence on or off the site of asbestos, invasive plants, electromagnetic fields, lead paint, heavy metals, radon gas or other radioactive or hazardous materials, unless specifically identified in the Services.
7. The Services are based upon RSK's observations of existing physical conditions at the Site gained from a visual inspection of the site together with RSK's interpretation of information, including documentation, obtained from third parties and from the Client on the history and usage of the site, unless specifically identified in the Services or accreditation system (such as UKAS ISO 17020:2012 clause 7.1.6):

- a. The Services were based on information and/or analysis provided by independent testing and information services or laboratories upon which RSK was reasonably entitled to rely.
- b. The Services were limited by the accuracy of the information, including documentation, reviewed by RSK and the observations possible at the time of the visual inspection.
- c. The Services did not attempt to independently verify the accuracy or completeness of information, documentation or materials received from the client or third parties, including laboratories and information services, during the performance of the Services.

RSK is not liable for any inaccurate information or conclusions, the discovery of which inaccuracies required the doing of any act including the gathering of any information which was not reasonably available to RSK and including the doing of any independent investigation of the information provided to RSK save as otherwise provided in the terms of the contract between the Client and RSK.

8. The intrusive environmental site investigation aspects of the Services are a limited sampling of the site at pre-determined locations based on the known historic / operational configuration of the site. The conclusions given in this report are based on information gathered at the specific test locations and can only be extrapolated to an undefined limited area around those locations. The extent of the limited area depends on the properties of the materials adjacent and local conditions, together with the position of any current structures and underground utilities and facilities, and natural and other activities on site. In addition, chemical analysis was carried out for a limited number of parameters (as stipulated in the scope between the client and RSK, based on an understanding of the available operational and historical information) and it should not be inferred that other chemical species are not present.
9. Any site drawing(s) provided in this report is (are) not meant to be an accurate base plan but is (are) used to present the general relative locations of features on, and surrounding, the site. Features (intrusive and sample locations etc) annotated on site plans are not drawn to scale but are centred over the approximate location. Such features should not be used for setting out and should be considered indicative only.
10. The comments given in this report and the opinions expressed are based on the ground conditions encountered during the site work and on the results of tests made in the field and in the laboratory. However, there may be conditions pertaining to the site that have not been disclosed by the investigation and therefore could not be taken into account. In particular, it should be noted that there may be areas of made ground not detected due to the limited nature of the investigation or the thickness and quality of made ground across the site may be variable. In addition, groundwater levels and ground gas concentrations and flows, may vary from those reported due to seasonal, or other, effects and the limitations stated in the data should be recognised.
11. Asbestos is often observed to be present in soils in discrete areas. Whilst asbestos-containing materials may have been locally encountered during the fieldworks or supporting laboratory analysis, the history of brownfield and demolition sites indicates that asbestos fibres may be present more widely in soils and aggregates, which could be encountered during more extensive ground works.
12. Unless stated otherwise, only preliminary geotechnical recommendations are presented in this report and these should be verified in a Geotechnical Design Report, once proposed construction and structural design proposals are confirmed.



APPENDIX B

EXPLORATORY HOLE LOGS



WINDOW SAMPLE LOG

Contract: Coleshill Mill			Client: Kimberly Clark Ltd		Window Sample: BH101
Contract Ref: 325144	Start: 07.08.18 End: 08.08.18	Ground Level: 13.75	National Grid Co-ordinate: E:323332.4 N:373475.4		Sheet: 1 of 1

Progress		Samples / Tests			Water	Backfill & Instrumentation	Description of Strata	Depth (Thickness)	Material Graphic Legend
Window Run	Depth	No	Type	Results					
1.20 - 1.60 (115mm dia)	0.40-0.50 0.40	1	ES PID	0.0ppm			MADE GROUND: Reinforced concrete slab.	0.20	
							MADE GROUND: Sandy angular to subangular fine to coarse GRAVEL.	0.40	
	0.80 0.80	2	ES PID	0.0ppm			Firm to stiff reddish brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse of mixed lithologies.	(0.40) 0.80	
	1.20 1.20	3	ES PID	0.0ppm			Firm reddish brown slightly sandy SILT.	(0.80)	
							... 1.20m, becoming stiff. ... 1.50m, becoming very stiff.	1.60	
							Window sample hole terminated at 1.60m depth on siltstone bedrock.		

Drilling Progress and Water Observations						General Remarks	
Date	Time	Borehole Depth (m)	Casing Depth (m)	Borehole Diameter (mm)	Water Depth (m)		
						1. Cored to 0.20m, vacuum excavated to 1.20m, window sample to 1.60m. 2. Standpipe installed to 1.50m: 0.50m plain, 1.00m slotted.	
						All dimensions in metres	Scale: 1:25
Method Used: Tracked window sampling			Plant Used: Dando Terrier			Drilled By: Dynamic Sampling	Logged By: ACox
						Checked By:	



WINDOW SAMPLE LOG

Contract: Coleshill Mill			Client: Kimberly Clark Ltd		Window Sample: BH103
Contract Ref: 325144	Start: 08.08.18 End: 08.08.18	Ground Level: 13.55	National Grid Co-ordinate: E:323412.2 N:373423.4		Sheet: 1 of 1

Progress	Samples / Tests				Water	Backfill & Instrumentation	Description of Strata	Depth (Thickness)	Material Graphic Legend
Window Run	Depth	No	Type	Results					
1.20 - 2.00 (100mm dia) 70% rec							MADE GROUND: Reinforced CONCRETE.	0.18	
	0.40-0.50 0.40	1	ES PID	0.1ppm			MADE GROUND: Grey slightly sandy angular fine to coarse GRAVEL of limestone.	0.38	
	0.80-0.90 0.80	2	ES PID	0.3ppm			MADE GROUND: Firm to stiff brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse of mixed lithologies. Black staining. Minor organic odour.	(0.62) 1.00	
	1.50-1.70 1.50	3	ES PID	0.1ppm			Red slightly clayey fine to medium SAND.	(1.00) 2.00	
	Window sample hole terminated at 2.00m depth.								

Drilling Progress and Water Observations						General Remarks			
Date	Time	Borehole Depth (m)	Casing Depth (m)	Borehole Diameter (mm)	Water Depth (m)	1. Cored to 0.80m, vacuum excavated to 1.20m, window sample to 2.00m. 2. Water sitting 0.80m. 3. Blowing sand at 2.00m, rising in casing to 1.60m. 4. Standpipe installed to 2.00m: 1.00m plain, 1.00m slotted.			
			-		0.80				
All dimensions in metres						Scale:	1:25		
Method Used: Tracked window sampling			Plant Used: Dando Terrier			Drilled By: Dynamic Sampling	Logged By: ACox	Checked By:	



WINDOW SAMPLE LOG

Contract: Coleshill Mill			Client: Kimberly Clark Ltd		Window Sample: BH104
Contract Ref: 325144	Start: 08.08.18 End: 08.08.18	Ground Level: 13.60	National Grid Co-ordinate: E:323439.3 N:373453.9		Sheet: 1 of 1

Progress	Samples / Tests				Water Backfill & Instrumentation	Description of Strata	Depth (Thickness)	Material Graphic Legend
Window Run	Depth	No	Type	Results				
1.20 - 2.00 (100mm dia) 100% rec	0.60-0.70 0.60	1	ES PID	0.1ppm		MADE GROUND: Reinforced CONCRETE.	0.18	
						MADE GROUND: Grey angular to subangular GRAVEL of limestone.	(0.32) 0.50	
						Brown slightly clayey slightly gravelly fine to coarse SAND. Gravel is subrounded of mudstone.	(1.00)	
	1.20-1.30 1.20	2	ES PID	0.1ppm		... 1.30m, becoming clayey.	1.50	
						Stiff brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to medium of mixed lithologies.	(0.65) 2.15	
	2.20-2.40 2.20	3	ES PID	0.1ppm		Brown medium to coarse SAND.	(1.05) 3.20	
						Multicoloured sandy subrounded fine to coarse GRAVEL of mixed lithologies, including mudstone, sandstone and quartz. Sand is fine to coarse.	(0.80) 4.00	
						Window sample hole terminated at 4.00m depth.		

Drilling Progress and Water Observations						General Remarks		
Date	Time	Borehole Depth (m)	Casing Depth (m)	Borehole Diameter (mm)	Water Depth (m)	1. Cored to 0.80m, vacuum excavated to 1.20m. 2. Groundwater encountered at 0.80m. 3. Standpipe installed to 3.00m: 2.00m plain, 1.00m slotted.		
			-		0.80			
All dimensions in metres						Scale:	1:25	
Method Used: Tracked window sampling			Plant Used: Dando Terrier			Drilled By: Dynamic Sampling	Logged By: ACox	Checked By:



WINDOW SAMPLE LOG

Contract: Coleshill Mill		Client: Kimberly Clark Ltd		Window Sample: BH105	
Contract Ref: 325144		Start: 07.08.18 End: 07.08.18	Ground Level: 13.54	National Grid Co-ordinate: E:323426.4 N:373513.4	Sheet: 1 of 1

Progress		Samples / Tests			Water	Backfill & Instrumentation	Description of Strata	Depth (Thickness)	Material Graphic Legend
Window Run	Depth	No	Type	Results					
1.20 - 2.00 (100mm dia) 95% rec 2.00 - 3.00 (90mm dia) 20% rec							MADE GROUND: TARMAC.	0.08	
							MADE GROUND: Grey sandy angular to subangular fine to coarse GRAVEL of limestone.	0.20	
	0.30-0.35	1	ES PID	0.0ppm			MADE GROUND: Soft to firm brown slightly sandy slightly gravelly CLAY with rootlets. Sand is fine to coarse. Gravel is angular to subangular fine to coarse of pottery fragments and concrete.	(0.35)	
	0.30							0.55	
	0.55-0.65	2	ES PID	0.0ppm			Stiff reddish brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine of mixed lithologies.	(0.95)	
	0.55								
	1.20-1.30	3	ES PID	0.0ppm				1.50	
	1.20								
	1.80-2.00	4	ES PID	0.0ppm			Brown fine to coarse SAND. (Wet).	(0.50)	
	1.80							2.00	
							Poor recovery. Multicoloured sandy rounded to subrounded fine to coarse GRAVEL of mixed lithologies, including granite, mudstone and sandstone, with low cobble content. Sand is fine to coarse.	(1.00)	
								3.00	
							Window sample hole terminated at 3.00m depth.		

Drilling Progress and Water Observations						General Remarks			
Date	Time	Borehole Depth (m)	Casing Depth (m)	Borehole Diameter (mm)	Water Depth (m)	1. Cored to 0.08m, vacuum excavated to 1.20m, window sample to 3.00m. 2. Standpipe installed to 3.00m: 1.50m plain, 1.50m slotted.			
Method Used: Tracked window sampling						All dimensions in metres		Scale: 1:25	
Plant Used: Dando Terrier			Drilled By: Dynamic Sampling		Logged By: ACox		Checked By:		



WINDOW SAMPLE LOG

Contract: Coleshill Mill		Client: Kimberly Clark Ltd		Window Sample: BH106	
Contract Ref: 325144		Start: 07.08.18 End: 08.08.18	Ground Level: 13.27	National Grid Co-ordinate: E:323459.1 N:373388.2	Sheet: 1 of 1

Progress	Samples / Tests				Water	Backfill & Instru-mentation	Description of Strata	Depth (Thick-ness)	Material Graphic Legend
Window Run	Depth	No	Type	Results					
							MADE GROUND: Reinforced CONCRETE.	0.18	
	0.40-0.60 0.40	1	ES PID	28.0ppm			MADE GROUND: Grey sandy angular to subangular fine to coarse GRAVEL. Plastic membrane at base.	0.40	
	0.80-0.90 0.80	2	ES PID	62.0ppm			MADE GROUND: Stiff dark brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse of mixed lithologies (reworked natural). Hydrocarbon odour. . . . 0.70m, strong hydrocarbon odour.	(0.65) 1.05	
							Window sample hole terminated at 1.05m depth due to buried pipe in a portion of the inspection pit.		

Drilling Progress and Water Observations						General Remarks			
Date	Time	Borehole Depth (m)	Casing Depth (m)	Borehole Diameter (mm)	Water Depth (m)	1. Concrete cored to 0.18m, vacuum excavation to 1.05m. 2. Standpipe installed to 1.05m: 0.30m plain, 0.75m slotted. 3. Groundwater encountered at 0.70m - possible hydrocarbon sheen.			
			-		0.70				
Method Used: Tracked window sampling						All dimensions in metres		Scale: 1:25	
Plant Used: Unknown			Drilled By: Dynamic Sampling		Logged By: ACox		Checked By:		



WINDOW SAMPLE LOG

Contract: Coleshill Mill			Client: Kimberly Clark Ltd		Window Sample: BH106A
Contract Ref: 325144	Start: 07.08.18 End: 08.08.18	Ground Level: 13.28	National Grid Co-ordinate: E:323459.1 N:373388.9		Sheet: 1 of 1

Progress	Samples / Tests				Water Backfill & Instrumentation	Description of Strata	Depth (Thickness)	Material Graphic Legend
Window Run	Depth	No	Type	Results				
	1.20-1.30 1.20	1	ES PID	12.0ppm		MADE GROUND: Reinforced CONCRETE.	0.18	
						MADE GROUND: Grey sandy angular to subangular fine to coarse GRAVEL. Plastic membrane at base.	0.40	
						MADE GROUND: Stiff dark brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse of mixed lithologies (reworked natural).	(0.65) 1.05	
						Stiff dark brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse of mixed lithologies.	(1.25) 2.30	
						Brown slightly gravelly fine to coarse SAND.	2.50	
	2.30-2.50 2.30	2	ES PID	9.0ppm		Multicoloured slightly sandy subrounded to rounded fine to coarse GRAVEL.	(1.20) 3.70	
						Red fine SAND.	(0.30) 4.00	
						Window sample hole terminated at 4.00m depth due to blowing sands.		

Drilling Progress and Water Observations						General Remarks	
Date	Time	Borehole Depth (m)	Casing Depth (m)	Borehole Diameter (mm)	Water Depth (m)		
			-		0.80	1. Cored to 0.18m, vacuum excavated to 1.20m, window sample to 4.00m. 2. Water encountered at 0.80m, slight sheen and hydrocarbon odour. 3. 300mm diameter pipe at 0.90m. 4. Standpipe installed to 4.00m: 2.00m plain, 2.00m slotted.	
						All dimensions in metres	Scale: 1:25
Method Used: Tracked window sampling			Plant Used: Dando Terrier		Drilled By: Dynamic Sampling	Logged By: ACox	Checked By:



WINDOW SAMPLE LOG

Contract: Coleshill Mill			Client: Kimberly Clark Ltd		Window Sample: BH107
Contract Ref: 325144	Start: 06.08.18 End: 06.08.18	Ground Level: 13.25	National Grid Co-ordinate: E:323540.5 N:373291.3		Sheet: 1 of 1

Progress		Samples / Tests			Water	Backfill & Instrumentation	Description of Strata	Depth (Thickness)	Material Graphic Legend
Window Run	Depth	No	Type	Results					
	0.20-0.40 0.20	1	ES PID	0.0ppm			MADE GROUND: Grey angular GRAVEL of limestone. Firm to stiff dark brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is subrounded fine to coarse of mixed lithologies, including mudstone.	0.20	
	0.70-0.90 0.70	2	ES PID	0.0ppm			... 1.30m, becoming stiff.	(1.45)	
	1.80-2.00 1.80	3	ES PID	0.0ppm			Weak purplish red weathered SANDSTONE.	1.65 (0.35)	
							Window sample hole terminated at 2.00m depth.	2.00	

Drilling Progress and Water Observations						General Remarks			
Date	Time	Borehole Depth (m)	Casing Depth (m)	Borehole Diameter (mm)	Water Depth (m)	1. Vacuum excavated to 1.20m, window sample to 2.00m. 2. Water strike at 1.70m, rising to 0.25m. 3. Standpipe installed to 2.00m: 0.50m plain, 1.50m slotted.			
			-		1.70				
Method Used: Tracked window sampling						All dimensions in metres		Scale: 1:25	
Plant Used: Dando Terrier			Drilled By: Dynamic Sampling		Logged By: ACoX		Checked By:		



WINDOW SAMPLE LOG

Contract: Coleshill Mill			Client: Kimberly Clark Ltd		Window Sample: BH108
Contract Ref: 325144		Start: 07.08.18 End: 07.08.18	Ground Level: 15.49	National Grid Co-ordinate: E:323613.6 N:373335.4	Sheet: 1 of 2

Progress	Samples / Tests				Water Backfill & Instrumentation	Description of Strata	Depth (Thickness)	Material Graphic Legend
Window Run	Depth	No	Type	Results				
	0.80-1.20	1	ES			MADE GROUND: Firm sandy gravelly CLAY (reworked natural) with minor glass and brick fragments.	(2.50)	
	2.70-2.80	2	ES			Stiff brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is subangular to rounded fine to medium of mixed lithologies, including mudstone and sandstone.	(1.70)	
						Description on next sheet		

Drilling Progress and Water Observations						General Remarks			
Date	Time	Borehole Depth (m)	Casing Depth (m)	Borehole Diameter (mm)	Water Depth (m)	1. Vacuum excavated to 1.20m, window sample to 5.90m. 2. Standpipe installed to 5.90m: 3.90m plain, 2.00m slotted.			
Method Used: Tracked window sampling		Plant Used: Dando Terrier		Drilled By: Dynamic Sampling	Logged By: ACox	Checked By:	AGS		



WINDOW SAMPLE LOG

Contract: Coleshill Mill		Client: Kimberly Clark Ltd		Window Sample: BH108	
Contract Ref: 325144		Start: 07.08.18 End: 07.08.18	Ground Level: 15.49	National Grid Co-ordinate: E:323613.6 N:373335.4	Sheet: 2 of 2

Progress	Samples / Tests				Water	Backfill & Instru- mentation	Description of Strata	Depth (Thick- ness)	Material Graphic Legend
Window Run	Depth	No	Type	Results					
							Firm to stiff brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is subangular to rounded fine to coarse of mixed lithologies. <i>(stratum copied from 4.20m from previous sheet)</i>	(1.30)	
							Dense red slightly gravelly fine to coarse SAND. Gravel is subrounded to rounded fine of quartz. (Damp).	5.50 (0.40)	
							Window sample hole terminated at 5.90m depth on weathered sandstone (damp).	5.90	

Drilling Progress and Water Observations						General Remarks			
Date	Time	Borehole Depth (m)	Casing Depth (m)	Borehole Diameter (mm)	Water Depth (m)				



WINDOW SAMPLE LOG

Contract: Coleshill Mill		Client: Kimberly Clark Ltd		Window Sample: BH109	
Contract Ref: 325144		Start: 06.08.18	Ground Level: 13.49	National Grid Co-ordinate: E:323560.9 N:373243.1	Sheet: 1 of 1
End: 06.08.18					

Progress		Samples / Tests			Water Backfill & Instrumentation	Description of Strata	Depth (Thickness)	Material Graphic Legend
Window Run	Depth	No	Type	Results				
						MADE GROUND: Dark grey angular to subangular GRAVEL. Stiff to very stiff red slightly gravelly CLAY (possible weathered mudstone/material?). Gravel is subangular to subrounded fine to coarse of mixed lithologies.	0.10	
	0.30 0.30	1	ES PID	0.0ppm			(1.10)	
	0.70 0.70	2	ES PID	0.0ppm				
	1.10 1.10	3	ES PID	0.0ppm		Purplish red weathered SILTSTONE.	1.20	
							(1.20)	
							2.40	
						Window sample hole terminated at 2.40m depth due to refusal.		

Drilling Progress and Water Observations						General Remarks	
Date	Time	Borehole Depth (m)	Casing Depth (m)	Borehole Diameter (mm)	Water Depth (m)		
						1. Vacuum excavated to 1.20m, window sample to 2.40m. 2. Standpipe installed to 2.40m: 2.00m plain, 0.40m slotted.	
Method Used: Tracked window sampling			Plant Used: Dando Terrier		Drilled By: Dynamic Sampling	Logged By: ACox	Checked By:

WINDOW SAMPLE LOG

Contract: Coleshill Mill			Client: Kimberly Clark Ltd		Window Sample: BH110
Contract Ref: 325144	Start: 06.08.18 End: 06.08.18	Ground Level: 13.38	National Grid Co-ordinate: E:323667.1 N:373271.8		Sheet: 1 of 1

Progress	Samples / Tests				Water Backfill & Instrumentation	Description of Strata	Depth (Thickness)	Material Graphic Legend
Window Run	Depth	No	Type	Results				
						MADE GROUND: Grass onto brown slightly clayey slightly gravelly fine to coarse SAND.	0.25	
	0.40 0.40	1	ES PID	0.0ppm		MADE GROUND: Brown and grey sandy angular to subangular fine to medium GRAVEL of concrete, including rebar. Sand is fine to coarse.	(0.35) 0.60	
	0.80 0.80	2	ES PID	0.0ppm		Brown slightly clayey slightly gravelly fine to coarse SAND.	(0.40) 1.00	
1.20 - 2.00 (100mm dia) 70% rec	1.20-3.00 1.20	3	ES PID	0.0ppm		Brown slightly clayey sandy angular to subangular fine to coarse GRAVEL of mixed lithologies. Sand is fine to coarse.	(1.80)	
2.00 - 3.00 (90mm dia) 100% rec	2.80 2.80	4	ES PID	0.0ppm		Firm brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse of mixed lithologies.	2.80 3.00	
3.00 - 4.00 (90mm dia) 100% rec						Brown slightly clayey slightly sandy angular to subangular fine to coarse GRAVEL of mudstone and limestone. (Wet).	(1.50)	
4.00 - 4.50 (80mm dia) 20% rec						Window sample hole terminated at 4.50m depth due to refusal.	4.50	

Drilling Progress and Water Observations						General Remarks	
Date	Time	Borehole Depth (m)	Casing Depth (m)	Borehole Diameter (mm)	Water Depth (m)		
			-		1.90	1. Vacuum excavated to 1.20m, window sample to 4.50m. 2. Water resting at 1.90m. 3. Standpipe installed to 4.50m: 3.00m plain, 1.50m slotted.	
Method Used: Tracked window sampling						All dimensions in metres	Scale: 1:28
Plant Used: Dando Terrier			Drilled By: Dynamic Sampling		Logged By: ACox	Checked By:	



APPENDIX C

GROUNDWATER MONITORING AND SAMPLING RECORDS

IN-SITU WATER MONITORING RESULTS

<u>Weather</u>	<u>Ground Conditions</u>	<u>Wind Conditions</u>	<u>Air Temperature (°C)</u>	<u>Equipment Used & Remarks</u>
Round GW1 Overcast, cloudy.	-	-	15	

Exploratory Position ID	Pipe Ref	Pipe Diameter	Monitoring Round / Test Number	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring	Water Depth (mbgl)	pH	Redox (mV)	Conductivity (uS/cm)	Temperature (°C)	Dissolved Oxygen (mg/l)	Remarks
BH101	1	50	GW1 / 1	1.50	1.43	0.50 to 1.50	17/08/2018 15:36	0.60	11.36	23	1227	16.5	4.2	General Remarks: Not stabilised, but starting filling due to time pressures on site. slightly opaque, orange/brown, no sediment. No odour.
BH101	1	50	GW1 / 1		1.43		17/08/2018 15:39	0.61	11.30	4	1078	16.5	3.2	
BH101	1	50	GW1 / 1		1.43		17/08/2018 15:42	0.61	10.91	0	908	16.6	2.9	
BH101	1	50	GW1 / 1		1.43		17/08/2018 15:45	0.62	10.20	3	866	16.6	2.7	
BH101	1	50	GW1 / 1		1.43		17/08/2018 15:48	0.62	9.32	7	880	16.7	2.5	
BH103	1	50	GW1 / 1	2.00	1.93	1.00 to 2.00	17/08/2018 11:03	0.38	7.03	129	756	15.3	4.3	General Remarks: Clear, transparent, no sediment. No odour.
BH103	1	50	GW1 / 1		1.93		17/08/2018 11:06	0.37	7.09	106	756	15.2	3.8	
BH103	1	50	GW1 / 1		1.93		17/08/2018 11:09	0.37	7.10	90	757	15.2	3.8	
BH103	1	50	GW1 / 1		1.93		17/08/2018 11:12	0.37	7.11	75	758	15.2	3.7	
BH103	1	50	GW1 / 1		1.93		17/08/2018 11:15	0.37	7.11	59	757	15.2	3.7	
BH103	1	50	GW1 / 1		1.93		17/08/2018 11:18	0.37	7.12	46	755	15.2	3.6	
BH103	1	50	GW1 / 1		1.93		17/08/2018 11:21	0.37	7.12	37	757	15.2	3.4	
BH104	1	50	GW1 / 1	3.00	3.00	2.00 to 3.00	17/08/2018 09:25	0.75	6.22	163	899	14.5	4.4	General Remarks: Slightly brownish.

Key: NDA denotes 'no data available'.

 RSK Environment Ltd Spring Lodge 172 Chester Road Helsby, Cheshire WA6 0AR	Compiled By	Date	Checked By	Date	Contract Ref:
		27/09/18		27/09/18	325144
	Contract: Coleshill Mill				Page: 1 of 4 

IN-SITU WATER MONITORING RESULTS

<u>Weather</u>	<u>Ground Conditions</u>	<u>Wind Conditions</u>	<u>Air Temperature (°C)</u>	<u>Equipment Used & Remarks</u>

Exploratory Position ID	Pipe Ref	Pipe Diameter	Monitoring Round / Test Number	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring	Water Depth (mbgl)	pH	Redox (mV)	Conductivity (uS/cm)	Temperature (°C)	Dissolved Oxygen (mg/l)	Remarks
BH104	1	50	GW1 / 1		3.00		17/08/2018 09:28	0.75	6.93	165	895	14.3	4.6	
BH104	1	50	GW1 / 1		3.00		17/08/2018 09:31	0.75	6.95	160	894	14.3	4.8	
BH104	1	50	GW1 / 1		3.00		17/08/2018 09:34	0.75	6.96	159	893	14.3	4.8	
BH104	1	50	GW1 / 1		3.00		17/08/2018 09:37	0.75	6.96	158	894	14.3	4.8	
BH105	1	50	GW1 / 1	3.00	2.60	1.50 to 3.00	17/08/2018 09:37	0.77	7.03	156	856	17.2	3.5	General Remarks: Clear, transparent, no sediment. No odour.
BH105	1	50	GW1 / 1		2.60		17/08/2018 09:40	0.77	6.98	156	869	17.2	3.4	
BH105	1	50	GW1 / 1		2.60		17/08/2018 09:43	0.77	6.98	156	878	17.3	3.2	
BH105	1	50	GW1 / 1		2.60		17/08/2018 09:46	0.77	6.98	156	878	17.2	2.2	
BH105	1	50	GW1 / 1		2.60		17/08/2018 09:49	0.77	6.98	155	878	17.2	1.2	
BH105	1	50	GW1 / 1		2.60		17/08/2018 09:52	0.77	7.00	155	878	17.2	0.8	
BH105	1	50	GW1 / 1		2.60		17/08/2018 09:55	0.77	7.00	155	879	17.2	0.7	
BH106	1	50	GW1 / 1	1.05	0.75	0.30 to 1.05	17/08/2018 09:00	---	---	---	---	---	---	General Remarks: Water greasy with hydrocarbon odour.
BH106A	1	50	GW1 / 1	4.00	3.80	2.00 to 4.00	17/08/2018 10:18	0.32	7.18	150	741	15.0	5.5	General Remarks: Minor brown sediment.
BH106A	1	50	GW1 / 1		3.80		17/08/2018 10:21	0.32	7.17	157	779	15.0	5.4	

Key: NDA denotes 'no data available'.

 RSK Environment Ltd Spring Lodge 172 Chester Road Helsby, Cheshire WA6 0AR	Compiled By	Date	Checked By	Date	Contract Ref:
		27/09/18		27/09/18	325144
	Contract: Coleshill Mill				Page: 2 of 4 

IN-SITU WATER MONITORING RESULTS

Weather	Ground Conditions	Wind Conditions	Air Temperature (°C)	Equipment Used & Remarks

Exploratory Position ID	Pipe Ref	Pipe Diameter	Monitoring Round / Test Number	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring	Water Depth (mbgl)	pH	Redox (mV)	Conductivity (uS/cm)	Temperature (°C)	Dissolved Oxygen (mg/l)	Remarks
BH106A	1	50	GW1 / 1		3.80		17/08/2018 10:24	0.32	7.17	146	780	14.9	5.4	
BH106A	1	50	GW1 / 1		3.80		17/08/2018 10:27	0.32	7.17	144	780	14.8	5.3	
BH106A	1	50	GW1 / 1		3.80		17/08/2018 10:30	0.32	7.18	143	781	14.8	5.4	
BH107	1	50	GW1 / 1	2.00	1.70	0.50 to 2.00	17/08/2018 13:30	0.10	7.22	-22	855	17.7	3.5	
BH107	1	50	GW1 / 1		1.70		17/08/2018 13:33	0.10	7.24	-3	856	17.1	3.8	
BH107	1	50	GW1 / 1		1.70		17/08/2018 13:36	0.10	7.32	-6	855	17.1	3.8	
BH107	1	50	GW1 / 1		1.70		17/08/2018 13:39	0.10	7.19	-7	855	17.1	3.8	
BH107	1	50	GW1 / 1		1.70		17/08/2018 13:42	0.10	7.19	-7	855	17.1	3.9	
BH108	1	50	GW1 / 1	5.90	5.68	3.90 to 5.90	17/08/2018 14:07	2.90	7.38	21	910	16.9	4.5	General Remarks: Slightly opaque, very light brown, no sediment. No odour.
BH108	1	50	GW1 / 1		5.68		17/08/2018 14:10	2.97	7.29	17	907	16.7	3.3	
BH108	1	50	GW1 / 1		5.68		17/08/2018 14:13	3.04	7.29	14	906	16.7	3.1	
BH108	1	50	GW1 / 1		5.68		17/08/2018 14:16	3.17	7.29	13	906	16.8	3.1	
BH108	1	50	GW1 / 1		5.68		17/08/2018 14:19	3.20	7.29	12	906	16.9	3.0	
BH109	1	50	GW1 / 1	2.40	2.39	2.00 to 2.40	17/08/2018 14:27	0.95	7.26	14	860	16.2	4.0	

Key: NDA denotes 'no data available'.

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IN-SITU WATER MONITORING RESULTS

Weather Ground Conditions Wind Conditions Air Temperature (°C) Equipment Used & Remarks

Exploratory Position ID	Pipe Ref	Pipe Diameter	Monitoring Round / Test Number	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring	Water Depth (mbgl)	pH	Redox (mV)	Conductivity (uS/cm)	Temperature (°C)	Dissolved Oxygen (mg/l)	Remarks
BH109	1	50	GW1 / 1		2.39		17/08/2018 14:30	1.00	7.20	18	857	16.4	3.3	
BH109	1	50	GW1 / 1		2.39		17/08/2018 14:33	1.02	7.19	21	859	16.5	3.3	
BH109	1	50	GW1 / 1		2.39		17/08/2018 14:36	1.08	7.20	21	854	16.6	3.3	
BH109	1	50	GW1 / 1		2.39		17/08/2018 14:39	---	7.20	22	851	16.6	3.3	
BH110	1	50	GW1 / 1	4.50	3.86	3.00 to 4.50	17/08/2018 13:04	1.93	12.49	-26	10255	12.8	7.1	General Remarks: Clear, transparent, no sediment. No odour.
BH110	1	50	GW1 / 1		3.86		17/08/2018 13:07	1.98	12.60	-42	10619	12.8	3.7	
BH110	1	50	GW1 / 1		3.86		17/08/2018 13:10	1.98	12.60	-28	10566	13.0	3.4	
BH110	1	50	GW1 / 1		3.86		17/08/2018 13:13	1.98	12.60	-12	10547	13.0	3.2	
BH110	1	50	GW1 / 1		3.86		17/08/2018 13:16	1.98	12.60	2	10514	13.0	3.1	
BH110	1	50	GW1 / 1		3.86		17/08/2018 13:19	1.98	12.60	12	10454	13.0	3.0	

Key: NDA denotes 'no data available'.

 RSK Environment Ltd Spring Lodge 172 Chester Road Helsby, Cheshire WA6 0AR	Compiled By	Date	Checked By	Date	Contract Ref:
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Contract: Coleshill Mill					Page: 4 of 4 

IN-SITU WATER MONITORING RESULTS

<u>Weather</u>	<u>Ground Conditions</u>	<u>Wind Conditions</u>	<u>Air Temperature (°C)</u>	<u>Equipment Used & Remarks</u>
Round GW2 Sunny with clouds	-	-	-	

Exploratory Position ID	Pipe Ref	Pipe Diameter	Monitoring Round / Test Number	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring	Water Depth (mbgl)	Remarks
BH101	1	50	GW2 / 1	1.50	1.46	0.50 to 1.50	11/01/2021 15:21	0.56	General Remarks: Transparent, colourless, no sediment. No odour.
BH101	1	50	GW2 / 1		1.46		11/01/2021 15:24	0.56	
BH101	1	50	GW2 / 1		1.46		11/01/2021 15:27	0.57	
BH101	1	50	GW2 / 1		1.46		11/01/2021 15:30	0.57	
BH101	1	50	GW2 / 1		1.46		11/01/2021 15:33	0.57	
BH103	1	50	GW2 / 1	2.00	1.96	1.00 to 2.00	11/01/2021 13:22	0.14	General Remarks: Transparent, colourless, no sediment. No odour.
BH103	1	50	GW2 / 1		1.96		11/01/2021 13:25	0.18	
BH103	1	50	GW2 / 1		1.96		11/01/2021 13:28	0.23	
BH103	1	50	GW2 / 1		1.96		11/01/2021 13:31	0.27	
BH103	1	50	GW2 / 1		1.96		11/01/2021 13:34	0.30	
BH103	1	50	GW2 / 1		1.96		11/01/2021 13:37	0.32	
BH104	1	50	GW2 / 1	3.00	2.85	2.00 to 3.00	11/01/2021 11:30	0.57	General Remarks: Transparent, colourless, no sediment. No odour.
BH104	1	50	GW2 / 1		2.85		11/01/2021 11:33	0.57	
BH104	1	50	GW2 / 1		2.85		11/01/2021 11:36	0.57	
BH104	1	50	GW2 / 1		2.85		11/01/2021 11:39	0.57	
BH104	1	50	GW2 / 1		2.85		11/01/2021 11:42	0.57	

Key: NDA denotes 'no data available'.

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IN-SITU WATER MONITORING RESULTS

<u>Weather</u>	<u>Ground Conditions</u>	<u>Wind Conditions</u>	<u>Air Temperature (°C)</u>	<u>Equipment Used & Remarks</u>

Exploratory Position ID	Pipe Ref	Pipe Diameter	Monitoring Round / Test Number	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring	Water Depth (mbgl)	Remarks
BH105	1	50	GW2 / 1	3.00	2.61	1.50 to 3.00	11/01/2021 09:53	0.82	General Remarks: slightly opaque, light orange brown, some sediment. No odour.
BH105	1	50	GW2 / 1		2.61		11/01/2021 09:56	0.82	
BH105	1	50	GW2 / 1		2.61		11/01/2021 09:59	0.82	
BH105	1	50	GW2 / 1		2.61		11/01/2021 10:02	0.82	
BH105	1	50	GW2 / 1		2.61		11/01/2021 10:05	0.82	
BH106	1	50	GW2 / 1	1.05	0.88	0.30 to 1.05	12/01/2021 10:00	0.14	General Remarks: Transparent, colourless, no sediment. No odour.
BH106	1	50	GW2 / 1		0.88		12/01/2021 10:03	0.15	
BH106	1	50	GW2 / 1		0.88		12/01/2021 10:06	0.16	
BH106	1	50	GW2 / 1		0.88		12/01/2021 10:09	0.16	
BH106	1	50	GW2 / 1		0.88		12/01/2021 10:12	0.17	
BH106	1	50	GW2 / 1		0.88		12/01/2021 10:15	0.17	
BH106A	1	50	GW2 / 1	4.00	2.88	2.00 to 4.00	12/01/2021 09:09	0.05	General Remarks: Slightly opaque, some sediment, very light brown. No odour.
BH106A	1	50	GW2 / 1		2.88		12/01/2021 09:12	0.06	
BH106A	1	50	GW2 / 1		2.88		12/01/2021 09:15	0.06	
BH106A	1	50	GW2 / 1		2.88		12/01/2021 09:18	0.06	

Key: NDA denotes 'no data available'.

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	Contract: Coleshill Mill				Page: 2 of 4 

IN-SITU WATER MONITORING RESULTS

<u>Weather</u>	<u>Ground Conditions</u>	<u>Wind Conditions</u>	<u>Air Temperature (°C)</u>	<u>Equipment Used & Remarks</u>

Exploratory Position ID	Pipe Ref	Pipe Diameter	Monitoring Round / Test Number	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring	Water Depth (mbgl)	Remarks
BH106A	1	50	GW2 / 1		2.88		12/01/2021 09:21	0.06	
BH107	1	50	GW2 / 1	2.00	1.98	0.50 to 2.00	12/01/2021 11:22	---	General Remarks: Transparent, colourless, no sediment. No odour.
BH107	1	50	GW2 / 1		1.98		12/01/2021 11:25	---	
BH107	1	50	GW2 / 1		1.98		12/01/2021 11:28	---	
BH107	1	50	GW2 / 1		1.98		12/01/2021 11:31	---	
BH107	1	50	GW2 / 1		1.98		12/01/2021 11:34	---	
BH108	1	50	GW2 / 1	5.90	5.67	3.90 to 5.90	12/01/2021 15:29	0.95	General Remarks: Transparent, colourless, no sediment. No odour.
BH108	1	50	GW2 / 1		5.67		12/01/2021 15:32	0.98	
BH108	1	50	GW2 / 1		5.67		12/01/2021 15:35	0.99	
BH108	1	50	GW2 / 1		5.67		12/01/2021 15:38	1.01	
BH108	1	50	GW2 / 1		5.67		12/01/2021 15:41	1.03	
BH109	1	50	GW2 / 1	2.40	2.24	2.00 to 2.40	12/01/2021 12:49	0.49	General Remarks: Transparent, colourless, no sediment. No odour.
BH109	1	50	GW2 / 1		2.24		12/01/2021 12:52	0.47	
BH109	1	50	GW2 / 1		2.24		12/01/2021 12:55	0.50	
BH109	1	50	GW2 / 1		2.24		12/01/2021 12:58	0.52	

Key: NDA denotes 'no data available'.

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IN-SITU WATER MONITORING RESULTS

<u>Weather</u>	<u>Ground Conditions</u>	<u>Wind Conditions</u>	<u>Air Temperature (°C)</u>	<u>Equipment Used & Remarks</u>

Exploratory Position ID	Pipe Ref	Pipe Diameter	Monitoring Round / Test Number	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring	Water Depth (mbgl)	Remarks
BH109	1	50	GW2 / 1		2.24		12/01/2021 13:01	0.54	
BH110	1	50	GW2 / 1	4.50	3.86	3.00 to 4.50	12/01/2021 14:07	1.60	General Remarks: Transparent, colourless, no sediment. No odour.
BH110	1	50	GW2 / 1		3.86		12/01/2021 14:10	1.63	
BH110	1	50	GW2 / 1		3.86		12/01/2021 14:13	1.66	
BH110	1	50	GW2 / 1		3.86		12/01/2021 14:16	1.66	
BH110	1	50	GW2 / 1		3.86		12/01/2021 14:19	1.67	

Key: NDA denotes 'no data available'.

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APPENDIX D

LABORATORY CERTIFICATES FOR SOIL ANALYSIS

FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 18/06521
Issue Number: 1
Date: 29 August, 2018

Client: RSK Environment Helsby
Spring Lodge
172 Chester Road
Helsby
Cheshire
UK
WA6 0AR

Project Manager: Alex Cox
Project Name: Not specified
Project Ref: 325144
Order No: N/A
Date Samples Received: 08/08/18
Date Instructions Received: 15/08/18
Date Analysis Completed: 29/08/18

Prepared by:



Melanie Marshall
Laboratory Coordinator

Approved by:



Iain Haslock
Analytical Consultant

Envirolab Job Number: 18/06521

Client Project Name: Not specified

Client Project Ref: 325144

Lab Sample ID	18/06521/1	18/06521/2	18/06521/3	18/06521/4	18/06521/5	18/06521/6	18/06521/7	18/06521/8	Units	Method ref
Client Sample No										
Client Sample ID	BH101	BH101	BH101	BH103	BH103	BH103	BH104	BH104		
Depth to Top	0.40	0.80	1.20	0.40	0.80	1.50	0.60	1.20		
Depth To Bottom	0.50			0.50	0.90	1.70	0.70	1.30		
Date Sampled	07-Aug-18	07-Aug-18	07-Aug-18	08-Aug-18	08-Aug-18	08-Aug-18	06-Aug-18	07-Aug-18		
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES		
Sample Matrix Code	5A	5A	5A	5A	5A	1	4AE	5A		
% Stones >10mm _A	5.2	2.1	<0.1	1.8	2.9	<0.1	27.4	12.8	% w/w	A-T-044
pH _D ^{M#}	8.24	8.44	8.42	8.31	8.19	7.90	-	8.33	pH	A-T-031s
Sulphate (acid soluble) _D ^{M#}	-	-	-	410	-	<200	-	-	mg/kg	A-T-028s
Sulphide _A	-	-	-	<5	-	6	-	-	mg/kg	A-T-S2-s
Total Organic Carbon _D ^{M#}	-	-	-	-	0.33	0.24	0.92	-	% w/w	A-T-032s
Arsenic _D ^{M#}	<1	<1	<1	<1	<1	<1	<1	-	mg/kg	A-T-024s
Cadmium _D ^{M#}	<0.5	0.9	0.8	<0.5	0.6	0.7	0.5	-	mg/kg	A-T-024s
Copper _D ^{M#}	44	59	70	30	59	57	37	-	mg/kg	A-T-024s
Chromium _D ^{M#}	32	40	86	24	50	21	27	-	mg/kg	A-T-024s
Lead _D ^{M#}	19	57	28	11	13	14	15	-	mg/kg	A-T-024s
Mercury _D	<0.17	<0.17	0.22	<0.17	0.34	0.41	<0.17	-	mg/kg	A-T-024s
Nickel _D ^{M#}	88	113	168	66	155	66	68	-	mg/kg	A-T-024s
Selenium _D [#]	<1	<1	<1	<1	<1	<1	<1	-	mg/kg	A-T-024s
Zinc _D ^{M#}	71	389	312	41	51	83	45	-	mg/kg	A-T-024s
TPH total (>C6-C40) _A ^{M#}	-	-	-	-	-	-	11	-	mg/kg	A-T-007s

Envirolab Job Number: 18/06521

Client Project Name: Not specified

Client Project Ref: 325144

Lab Sample ID	18/06521/1	18/06521/2	18/06521/3	18/06521/4	18/06521/5	18/06521/6	18/06521/7	18/06521/8	Units	Method ref
Client Sample No										
Client Sample ID	BH101	BH101	BH101	BH103	BH103	BH103	BH104	BH104		
Depth to Top	0.40	0.80	1.20	0.40	0.80	1.50	0.60	1.20		
Depth To Bottom	0.50			0.50	0.90	1.70	0.70	1.30		
Date Sampled	07-Aug-18	07-Aug-18	07-Aug-18	08-Aug-18	08-Aug-18	08-Aug-18	06-Aug-18	07-Aug-18		
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES		
Sample Matrix Code	5A	5A	5A	5A	5A	1	4AE	5A		
Asbestos in Soil (inc. matrix)										
Asbestos in soil [#]	-	-	-	NAD	-	-	-	-		A-T-045
Asbestos ACM - Suitable for Water Absorption Test?	-	-	-	N/A	-	-	-	-		

Envirolab Job Number: 18/06521

Client Project Name: Not specified

Client Project Ref: 325144

Lab Sample ID	18/06521/1	18/06521/2	18/06521/3	18/06521/4	18/06521/5	18/06521/6	18/06521/7	18/06521/8	Units	Method ref
Client Sample No										
Client Sample ID	BH101	BH101	BH101	BH103	BH103	BH103	BH104	BH104		
Depth to Top	0.40	0.80	1.20	0.40	0.80	1.50	0.60	1.20		
Depth To Bottom	0.50			0.50	0.90	1.70	0.70	1.30		
Date Sampled	07-Aug-18	07-Aug-18	07-Aug-18	08-Aug-18	08-Aug-18	08-Aug-18	06-Aug-18	07-Aug-18		
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES		
Sample Matrix Code	5A	5A	5A	5A	5A	1	4AE	5A		
PAH-16MS										
Acenaphthene _A ^{M#}	-	<0.01	-	-	<0.01	<0.01	-	<0.01	mg/kg	A-T-019s
Acenaphthylene _A ^{M#}	-	<0.01	-	-	<0.01	<0.01	-	<0.01	mg/kg	A-T-019s
Anthracene _A ^{M#}	-	<0.02	-	-	<0.02	<0.02	-	<0.02	mg/kg	A-T-019s
Benzo(a)anthracene _A ^{M#}	-	<0.04	-	-	<0.04	<0.04	-	<0.04	mg/kg	A-T-019s
Benzo(a)pyrene _A ^{M#}	-	<0.04	-	-	<0.04	<0.04	-	<0.04	mg/kg	A-T-019s
Benzo(b)fluoranthene _A ^{M#}	-	<0.05	-	-	<0.05	<0.05	-	<0.05	mg/kg	A-T-019s
Benzo(ghi)perylene _A ^{M#}	-	<0.05	-	-	<0.05	<0.05	-	<0.05	mg/kg	A-T-019s
Benzo(k)fluoranthene _A ^{M#}	-	<0.07	-	-	<0.07	<0.07	-	<0.07	mg/kg	A-T-019s
Chrysene _A ^{M#}	-	<0.06	-	-	<0.06	<0.06	-	<0.06	mg/kg	A-T-019s
Dibenzo(ah)anthracene _A ^{M#}	-	<0.04	-	-	<0.04	<0.04	-	<0.04	mg/kg	A-T-019s
Fluoranthene _A ^{M#}	-	<0.08	-	-	<0.08	<0.08	-	<0.08	mg/kg	A-T-019s
Fluorene _A ^{M#}	-	<0.01	-	-	<0.01	<0.01	-	<0.01	mg/kg	A-T-019s
Indeno(123-cd)pyrene _A ^{M#}	-	<0.03	-	-	<0.03	<0.03	-	<0.03	mg/kg	A-T-019s
Naphthalene _A ^{M#}	-	<0.03	-	-	<0.03	<0.03	-	<0.03	mg/kg	A-T-019s
Phenanthrene _A ^{M#}	-	<0.03	-	-	<0.03	<0.03	-	<0.03	mg/kg	A-T-019s
Pyrene _A ^{M#}	-	<0.07	-	-	<0.07	<0.07	-	<0.07	mg/kg	A-T-019s
Total PAH-16MS _A ^{M#}	-	<0.08	-	-	<0.08	<0.08	-	<0.08	mg/kg	A-T-019s

Envirolab Job Number: 18/06521

Client Project Name: Not specified

Client Project Ref: 325144

Lab Sample ID	18/06521/1	18/06521/2	18/06521/3	18/06521/4	18/06521/5	18/06521/6	18/06521/7	18/06521/8	Units	Method ref
Client Sample No										
Client Sample ID	BH101	BH101	BH101	BH103	BH103	BH103	BH104	BH104		
Depth to Top	0.40	0.80	1.20	0.40	0.80	1.50	0.60	1.20		
Depth To Bottom	0.50			0.50	0.90	1.70	0.70	1.30		
Date Sampled	07-Aug-18	07-Aug-18	07-Aug-18	08-Aug-18	08-Aug-18	08-Aug-18	06-Aug-18	07-Aug-18		
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES		
Sample Matrix Code	5A	5A	5A	5A	5A	1	4AE	5A		
SVOC+TICs										
SVOC TICs (Tentatively Identified Compounds) _A	-	-	-	None detected	None detected	-	-	-		A-T-052s
Hexachlorobenzene _A	-	-	-	<100	<100	-	-	-	µg/kg	A-T-052s
Diethyl phthalate _A	-	-	-	<100	<100	-	-	-	µg/kg	A-T-052s
Dimethyl phthalate _A	-	-	-	<100	<100	-	-	-	µg/kg	A-T-052s
Dibenzofuran _A	-	-	-	<100	<100	-	-	-	µg/kg	A-T-052s
Carbazole _A	-	-	-	<100	<100	-	-	-	µg/kg	A-T-052s
Butylbenzyl phthalate _A	-	-	-	<100	<100	-	-	-	µg/kg	A-T-052s
Bis(2-ethylhexyl)phthalate _A	-	-	-	<500	<500	-	-	-	µg/kg	A-T-052s
Bis(2-chloroethoxy)methane _A	-	-	-	<100	<100	-	-	-	µg/kg	A-T-052s
Bis(2-chloroethyl)ether _A	-	-	-	<100	<100	-	-	-	µg/kg	A-T-052s
4-Nitrophenol _A	-	-	-	<100	<100	-	-	-	µg/kg	A-T-052s
4-Methylphenol _A	-	-	-	<100	<100	-	-	-	µg/kg	A-T-052s
4-Chloro-3-methylphenol _A	-	-	-	<100	<100	-	-	-	µg/kg	A-T-052s
2-Nitrophenol _A	-	-	-	<100	<100	-	-	-	µg/kg	A-T-052s
2-Methylphenol _A	-	-	-	<100	<100	-	-	-	µg/kg	A-T-052s
2-Chlorophenol _A	-	-	-	<100	<100	-	-	-	µg/kg	A-T-052s
2,6-Dinitrotoluene _A	-	-	-	<100	<100	-	-	-	µg/kg	A-T-052s
2,4-Dinitrotoluene _A	-	-	-	<100	<100	-	-	-	µg/kg	A-T-052s
2,4-Dimethylphenol _A	-	-	-	<100	<100	-	-	-	µg/kg	A-T-052s
2,4-Dichlorophenol _A	-	-	-	<100	<100	-	-	-	µg/kg	A-T-052s
2,4,6-Trichlorophenol _A	-	-	-	<100	<100	-	-	-	µg/kg	A-T-052s
2,4,5-Trichlorophenol _A	-	-	-	<100	<100	-	-	-	µg/kg	A-T-052s
2-Chloronaphthalene _A	-	-	-	<100	<100	-	-	-	µg/kg	A-T-052s
2-Methylnaphthalene _A	-	-	-	<100	<100	-	-	-	µg/kg	A-T-052s
Acenaphthylene _A	-	-	-	<100	-	-	-	-	µg/kg	A-T-052s
Acenaphthene _A	-	-	-	<100	-	-	-	-	µg/kg	A-T-052s
Anthracene _A	-	-	-	<100	-	-	-	-	µg/kg	A-T-052s
Benzo(a)anthracene _A	-	-	-	<100	-	-	-	-	µg/kg	A-T-052s
Benzo(b)fluoranthene _A	-	-	-	<100	-	-	-	-	µg/kg	A-T-052s
Benzo(k)fluoranthene _A	-	-	-	<100	-	-	-	-	µg/kg	A-T-052s
Benzo(a)pyrene _A	-	-	-	<100	-	-	-	-	µg/kg	A-T-052s
Benzo(ghi)perylene _A	-	-	-	<100	-	-	-	-	µg/kg	A-T-052s

Envirolab Job Number: 18/06521

Client Project Name: Not specified

Client Project Ref: 325144

Lab Sample ID	18/06521/1	18/06521/2	18/06521/3	18/06521/4	18/06521/5	18/06521/6	18/06521/7	18/06521/8	Units	Method ref
Client Sample No										
Client Sample ID	BH101	BH101	BH101	BH103	BH103	BH103	BH104	BH104		
Depth to Top	0.40	0.80	1.20	0.40	0.80	1.50	0.60	1.20		
Depth To Bottom	0.50			0.50	0.90	1.70	0.70	1.30		
Date Sampled	07-Aug-18	07-Aug-18	07-Aug-18	08-Aug-18	08-Aug-18	08-Aug-18	06-Aug-18	07-Aug-18		
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES		
Sample Matrix Code	5A	5A	5A	5A	5A	1	4AE	5A		
Chrysene _A	-	-	-	<100	-	-	-	-	µg/kg	A-T-052s
Fluoranthene _A	-	-	-	<100	-	-	-	-	µg/kg	A-T-052s
Fluorene _A	-	-	-	<100	-	-	-	-	µg/kg	A-T-052s
Indeno(1,2,3-cd)pyrene _A	-	-	-	<100	-	-	-	-	µg/kg	A-T-052s
Phenanthrene _A	-	-	-	<100	-	-	-	-	µg/kg	A-T-052s
Pyrene _A	-	-	-	<100	-	-	-	-	µg/kg	A-T-052s
Naphthalene _A	-	-	-	<100	-	-	-	-	µg/kg	A-T-052s
Dibenzo(ah)anthracene _A	-	-	-	<100	-	-	-	-	µg/kg	A-T-052s
Bis(2-chloroisopropyl)ether _A	-	-	-	<100	<100	-	-	-	µg/kg	A-T-052s
Phenol _A	-	-	-	<100	<100	-	-	-	µg/kg	A-T-052s
Pentachlorophenol _A	-	-	-	<100	<100	-	-	-	µg/kg	A-T-052s
n-Nitroso-n-dipropylamine _A	-	-	-	<100	<100	-	-	-	µg/kg	A-T-052s
n-Dioctylphthalate _A	-	-	-	<500	<500	-	-	-	µg/kg	A-T-052s
n-Dibutylphthalate _A	-	-	-	<100	<100	-	-	-	µg/kg	A-T-052s
Nitrobenzene _A	-	-	-	<100	<100	-	-	-	µg/kg	A-T-052s
Isophorone _A	-	-	-	<100	<100	-	-	-	µg/kg	A-T-052s
Hexachloroethane _A	-	-	-	<100	<100	-	-	-	µg/kg	A-T-052s
Hexachlorocyclopentadiene _A	-	-	-	<100	<100	-	-	-	µg/kg	A-T-052s
Perylene _A	-	-	-	<100	<100	-	-	-	µg/kg	A-T-052s

Envirolab Job Number: 18/06521

Client Project Name: Not specified

Client Project Ref: 325144

Lab Sample ID	18/06521/1	18/06521/2	18/06521/3	18/06521/4	18/06521/5	18/06521/6	18/06521/7	18/06521/8	Units	Method ref
Client Sample No										
Client Sample ID	BH101	BH101	BH101	BH103	BH103	BH103	BH104	BH104		
Depth to Top	0.40	0.80	1.20	0.40	0.80	1.50	0.60	1.20		
Depth To Bottom	0.50			0.50	0.90	1.70	0.70	1.30		
Date Sampled	07-Aug-18	07-Aug-18	07-Aug-18	08-Aug-18	08-Aug-18	08-Aug-18	06-Aug-18	07-Aug-18		
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES		
Sample Matrix Code	5A	5A	5A	5A	5A	1	4AE	5A		
VOC+TICs										
Dichlorodifluoromethane _A	-	-	-	<1	<1	-	-	-	µg/kg	A-T-006s
Chloromethane _A	-	-	-	<10	<10	-	-	-	µg/kg	A-T-006s
Vinyl Chloride _A [#]	-	-	-	<1	<1	-	-	-	µg/kg	A-T-006s
Bromomethane _A [#]	-	-	-	<1	<1	-	-	-	µg/kg	A-T-006s
Chloroethane _A [#]	-	-	-	<1	<1	-	-	-	µg/kg	A-T-006s
Trichlorofluoromethane _A [#]	-	-	-	<1	<1	-	-	-	µg/kg	A-T-006s
1,1-Dichloroethene _A [#]	-	-	-	<1	<1	-	-	-	µg/kg	A-T-006s
Carbon Disulphide _A [#]	-	-	-	<1	<1	-	-	-	µg/kg	A-T-006s
Dichloromethane _A	-	-	-	<10	<10	-	-	-	µg/kg	A-T-006s
trans 1,2-Dichloroethene _A [#]	-	-	-	<1	<1	-	-	-	µg/kg	A-T-006s
1,1-Dichloroethane _A [#]	-	-	-	<1	<1	-	-	-	µg/kg	A-T-006s
cis 1,2-Dichloroethene _A [#]	-	-	-	<1	<1	-	-	-	µg/kg	A-T-006s
2,2-Dichloropropane _A [#]	-	-	-	<1	<1	-	-	-	µg/kg	A-T-006s
Bromochloromethane _A [#]	-	-	-	<5	<5	-	-	-	µg/kg	A-T-006s
Chloroform _A [#]	-	-	-	<1	<1	-	-	-	µg/kg	A-T-006s
1,1,1-Trichloroethane _A [#]	-	-	-	<1	<1	-	-	-	µg/kg	A-T-006s
1,1-Dichloropropene _A [#]	-	-	-	<1	<1	-	-	-	µg/kg	A-T-006s
Carbon Tetrachloride _A [#]	-	-	-	<1	<1	-	-	-	µg/kg	A-T-006s
1,2-Dichloroethane _A [#]	-	-	-	<2	<2	-	-	-	µg/kg	A-T-006s
Benzene _A [#]	-	-	-	<1	<1	-	-	-	µg/kg	A-T-006s
Trichloroethene _A [#]	-	-	-	<1	<1	-	-	-	µg/kg	A-T-006s
1,2-Dichloropropane _A [#]	-	-	-	<1	<1	-	-	-	µg/kg	A-T-006s
Dibromomethane _A [#]	-	-	-	<1	<1	-	-	-	µg/kg	A-T-006s
Bromodichloromethane _A [#]	-	-	-	<10	<10	-	-	-	µg/kg	A-T-006s
cis 1,3-Dichloropropene _A [#]	-	-	-	<1	<1	-	-	-	µg/kg	A-T-006s
Toluene _A [#]	-	-	-	<1	<1	-	-	-	µg/kg	A-T-006s
trans 1,3-Dichloropropene _A [#]	-	-	-	<1	<1	-	-	-	µg/kg	A-T-006s
1,1,2-Trichloroethane _A [#]	-	-	-	<1	<1	-	-	-	µg/kg	A-T-006s
1,3-Dichloropropane _A [#]	-	-	-	<1	<1	-	-	-	µg/kg	A-T-006s
Tetrachloroethene _A [#]	-	-	-	<1	<1	-	-	-	µg/kg	A-T-006s
Dibromochloromethane _A [#]	-	-	-	<3	<3	-	-	-	µg/kg	A-T-006s
1,2-Dibromoethane _A [#]	-	-	-	<1	<1	-	-	-	µg/kg	A-T-006s

Envirolab Job Number: 18/06521

Client Project Name: Not specified

Client Project Ref: 325144

Lab Sample ID	18/06521/1	18/06521/2	18/06521/3	18/06521/4	18/06521/5	18/06521/6	18/06521/7	18/06521/8	Units	Method ref
Client Sample No										
Client Sample ID	BH101	BH101	BH101	BH103	BH103	BH103	BH104	BH104		
Depth to Top	0.40	0.80	1.20	0.40	0.80	1.50	0.60	1.20		
Depth To Bottom	0.50			0.50	0.90	1.70	0.70	1.30		
Date Sampled	07-Aug-18	07-Aug-18	07-Aug-18	08-Aug-18	08-Aug-18	08-Aug-18	06-Aug-18	07-Aug-18		
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES		
Sample Matrix Code	5A	5A	5A	5A	5A	1	4AE	5A		
Chlorobenzene _A [#]	-	-	-	<1	<1	-	-	-	µg/kg	A-T-006s
1,1,1,2-Tetrachloroethane _A	-	-	-	<1	<1	-	-	-	µg/kg	A-T-006s
Ethylbenzene _A [#]	-	-	-	<1	<1	-	-	-	µg/kg	A-T-006s
m & p Xylene _A [#]	-	-	-	<1	<1	-	-	-	µg/kg	A-T-006s
o-Xylene _A [#]	-	-	-	<1	<1	-	-	-	µg/kg	A-T-006s
Styrene _A [#]	-	-	-	<1	<1	-	-	-	µg/kg	A-T-006s
Bromoform _A [#]	-	-	-	<1	<1	-	-	-	µg/kg	A-T-006s
Isopropylbenzene _A [#]	-	-	-	<1	<1	-	-	-	µg/kg	A-T-006s
1,1,2,2-Tetrachloroethane _A	-	-	-	<1	<1	-	-	-	µg/kg	A-T-006s
1,2,3-Trichloropropane _A [#]	-	-	-	<1	<1	-	-	-	µg/kg	A-T-006s
Bromobenzene _A [#]	-	-	-	<1	<1	-	-	-	µg/kg	A-T-006s
n-Propylbenzene _A [#]	-	-	-	<1	<1	-	-	-	µg/kg	A-T-006s
2-Chlorotoluene _A [#]	-	-	-	<1	<1	-	-	-	µg/kg	A-T-006s
1,3,5-Trimethylbenzene _A [#]	-	-	-	<1	<1	-	-	-	µg/kg	A-T-006s
4-Chlorotoluene _A [#]	-	-	-	<1	<1	-	-	-	µg/kg	A-T-006s
tert-Butylbenzene _A [#]	-	-	-	<2	<2	-	-	-	µg/kg	A-T-006s
1,2,4-Trimethylbenzene _A [#]	-	-	-	<1	<1	-	-	-	µg/kg	A-T-006s
sec-Butylbenzene _A [#]	-	-	-	<1	<1	-	-	-	µg/kg	A-T-006s
4-Isopropyltoluene _A [#]	-	-	-	<1	<1	-	-	-	µg/kg	A-T-006s
1,3-Dichlorobenzene _A	-	-	-	<1	<1	-	-	-	µg/kg	A-T-006s
1,4-Dichlorobenzene _A [#]	-	-	-	<1	<1	-	-	-	µg/kg	A-T-006s
n-Butylbenzene _A [#]	-	-	-	<1	<1	-	-	-	µg/kg	A-T-006s
1,2-Dichlorobenzene _A [#]	-	-	-	<1	<1	-	-	-	µg/kg	A-T-006s
1,2-Dibromo-3-chloropropane _A	-	-	-	3	<2	-	-	-	µg/kg	A-T-006s
1,2,4-Trichlorobenzene _A	-	-	-	<3	<3	-	-	-	µg/kg	A-T-006s
Hexachlorobutadiene _A [#]	-	-	-	<1	<1	-	-	-	µg/kg	A-T-006s
1,2,3-Trichlorobenzene _A	-	-	-	<3	<3	-	-	-	µg/kg	A-T-006s
VOC TICs _A	-	-	-	None detected	None detected	-	-	-		A-T-006s

Envirolab Job Number: 18/06521

Client Project Name: Not specified

Client Project Ref: 325144

Lab Sample ID	18/06521/1	18/06521/2	18/06521/3	18/06521/4	18/06521/5	18/06521/6	18/06521/7	18/06521/8	Units	Method ref
Client Sample No										
Client Sample ID	BH101	BH101	BH101	BH103	BH103	BH103	BH104	BH104		
Depth to Top	0.40	0.80	1.20	0.40	0.80	1.50	0.60	1.20		
Depth To Bottom	0.50			0.50	0.90	1.70	0.70	1.30		
Date Sampled	07-Aug-18	07-Aug-18	07-Aug-18	08-Aug-18	08-Aug-18	08-Aug-18	06-Aug-18	07-Aug-18		
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES		
Sample Matrix Code	5A	5A	5A	5A	5A	1	4AE	5A		
TPH CWG										
Ali >C5-C6 _A [#]	<0.01	-	-	-	-	<0.01	-	-	mg/kg	A-T-022s
Ali >C6-C8 _A [#]	<0.01	-	-	-	-	<0.01	-	-	mg/kg	A-T-022s
Ali >C8-C10 _A ^{M#}	<1	-	-	-	-	<1	-	-	mg/kg	A-T-055s
Ali >C10-C12 _A ^{M#}	<1	-	-	-	-	<1	-	-	mg/kg	A-T-055s
Ali >C12-C16 _A ^{M#}	<1	-	-	-	-	<1	-	-	mg/kg	A-T-055s
Ali >C16-C21 _A ^{M#}	<1	-	-	-	-	<1	-	-	mg/kg	A-T-055s
Ali >C21-C35 _A	2	-	-	-	-	<1	-	-	mg/kg	A-T-055s
Total Aliphatics >C5-C35 _A	2	-	-	-	-	<1	-	-	mg/kg	A-T-055s
Aro >C5-C7 _A [#]	<0.01	-	-	-	-	<0.01	-	-	mg/kg	A-T-022s
Aro >C7-C8 _A [#]	<0.01	-	-	-	-	<0.01	-	-	mg/kg	A-T-022s
Aro >C8-C10 _A ^{M#}	<1	-	-	-	-	<1	-	-	mg/kg	A-T-055s
Aro >C10-C12 _A ^{M#}	<1	-	-	-	-	<1	-	-	mg/kg	A-T-055s
Aro >C12-C16 _A	<1	-	-	-	-	<1	-	-	mg/kg	A-T-055s
Aro >C16-C21 _A ^{M#}	<1	-	-	-	-	<1	-	-	mg/kg	A-T-055s
Aro >C21-C35 _A ^{M#}	<1	-	-	-	-	<1	-	-	mg/kg	A-T-055s
Total Aromatics >C5-C35 _A	<1	-	-	-	-	<1	-	-	mg/kg	A-T-055s
TPH (Ali & Aro >C5-C35) _A	2	-	-	-	-	<1	-	-	mg/kg	A-T-055s
BTEX - Benzene _A [#]	<0.01	-	-	-	-	<0.01	-	-	mg/kg	A-T-022s
BTEX - Toluene _A [#]	<0.01	-	-	-	-	<0.01	-	-	mg/kg	A-T-022s
BTEX - Ethyl Benzene _A [#]	<0.01	-	-	-	-	<0.01	-	-	mg/kg	A-T-022s
BTEX - m & p Xylene _A [#]	<0.01	-	-	-	-	<0.01	-	-	mg/kg	A-T-022s
BTEX - o Xylene _A [#]	<0.01	-	-	-	-	<0.01	-	-	mg/kg	A-T-022s
MTBE _A [#]	<0.01	-	-	-	-	<0.01	-	-	mg/kg	A-T-022s

Envirolab Job Number: 18/06521

Client Project Name: Not specified

Client Project Ref: 325144

Lab Sample ID	18/06521/9	18/06521/10	18/06521/11	18/06521/12	18/06521/13	18/06521/14	18/06521/15	18/06521/16	Units	Method ref
Client Sample No										
Client Sample ID	BH104	BH105	BH105	BH105	BH105	BH106	BH106	BH106a		
Depth to Top	2.20	0.30	0.55	1.20	1.80	0.40	0.80	1.20		
Depth To Bottom	2.40	0.35	0.65	1.30	2.00	0.60	0.90	1.30		
Date Sampled	07-Aug-18	07-Aug-18	07-Aug-18	07-Aug-18	07-Aug-18	07-Aug-18	07-Aug-18	08-Aug-18		
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES		
Sample Matrix Code	1	6AE	5A	5A	4A	5AE	5A	5A		
% Stones >10mm _A	<0.1	13.1	<0.1	<0.1	13.6	3.9	3.2	<0.1	% w/w	A-T-044
pH _D ^{M#}	-	7.55	8.07	8.16	8.20	8.11	8.33	8.49	pH	A-T-031s
Sulphate (acid soluble) _D ^{M#}	-	340	-	-	-	230	220	440	mg/kg	A-T-028s
Sulphide _A	-	8	-	-	-	9	6	7	mg/kg	A-T-S2-s
Total Organic Carbon _D ^{M#}	-	2.16	-	0.29	-	0.34	0.38	0.20	% w/w	A-T-032s
Arsenic _D ^{M#}	<1	<1	<1	<1	<1	<1	<1	<1	mg/kg	A-T-024s
Cadmium _D ^{M#}	0.6	0.6	0.7	<0.5	<0.5	<0.5	<0.5	<0.5	mg/kg	A-T-024s
Copper _D ^{M#}	61	46	61	10	<1	11	<1	11	mg/kg	A-T-024s
Chromium _D ^{M#}	34	38	59	10	8	10	8	10	mg/kg	A-T-024s
Lead _D ^{M#}	5	5	22	16	2	16	2	15	mg/kg	A-T-024s
Mercury _D	<0.17	<0.17	0.19	<0.17	<0.17	<0.17	<0.17	<0.17	mg/kg	A-T-024s
Nickel _D ^{M#}	151	109	151	8	6	8	7	10	mg/kg	A-T-024s
Selenium _D [#]	<1	<1	<1	<1	<1	<1	<1	<1	mg/kg	A-T-024s
Zinc _D ^{M#}	46	48	97	40	9	43	10	39	mg/kg	A-T-024s
TPH total (>C6-C40) _A ^{M#}	-	-	35	-	-	-	-	-	mg/kg	A-T-007s

Envirolab Job Number: 18/06521

Client Project Name: Not specified

Client Project Ref: 325144

Lab Sample ID	18/06521/9	18/06521/10	18/06521/11	18/06521/12	18/06521/13	18/06521/14	18/06521/15	18/06521/16	Units	Method ref
Client Sample No										
Client Sample ID	BH104	BH105	BH105	BH105	BH105	BH106	BH106	BH106a		
Depth to Top	2.20	0.30	0.55	1.20	1.80	0.40	0.80	1.20		
Depth To Bottom	2.40	0.35	0.65	1.30	2.00	0.60	0.90	1.30		
Date Sampled	07-Aug-18	07-Aug-18	07-Aug-18	07-Aug-18	07-Aug-18	07-Aug-18	07-Aug-18	08-Aug-18		
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES		
Sample Matrix Code	1	6AE	5A	5A	4A	5AE	5A	5A		
Asbestos in Soil (inc. matrix)										
Asbestos in soil [#]	-	NAD	-	-	-	NAD	NAD	NAD		A-T-045
Asbestos ACM - Suitable for Water Absorption Test?	-	N/A	-	-	-	N/A	N/A	N/A		

Envirolab Job Number: 18/06521

Client Project Name: Not specified

Client Project Ref: 325144

Lab Sample ID	18/06521/9	18/06521/10	18/06521/11	18/06521/12	18/06521/13	18/06521/14	18/06521/15	18/06521/16	Units	Method ref
Client Sample No										
Client Sample ID	BH104	BH105	BH105	BH105	BH105	BH106	BH106	BH106a		
Depth to Top	2.20	0.30	0.55	1.20	1.80	0.40	0.80	1.20		
Depth To Bottom	2.40	0.35	0.65	1.30	2.00	0.60	0.90	1.30		
Date Sampled	07-Aug-18	07-Aug-18	07-Aug-18	07-Aug-18	07-Aug-18	07-Aug-18	07-Aug-18	08-Aug-18		
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES		
Sample Matrix Code	1	6AE	5A	5A	4A	5AE	5A	5A		
PAH-16MS										
Acenaphthene _A ^{M#}	-	-	-	-	-	-	0.03	-	mg/kg	A-T-019s
Acenaphthylene _A ^{M#}	-	-	-	-	-	-	<0.01	-	mg/kg	A-T-019s
Anthracene _A ^{M#}	-	-	-	-	-	-	<0.02	-	mg/kg	A-T-019s
Benzo(a)anthracene _A ^{M#}	-	-	-	-	-	-	<0.04	-	mg/kg	A-T-019s
Benzo(a)pyrene _A ^{M#}	-	-	-	-	-	-	<0.04	-	mg/kg	A-T-019s
Benzo(b)fluoranthene _A ^{M#}	-	-	-	-	-	-	<0.05	-	mg/kg	A-T-019s
Benzo(ghi)perylene _A ^{M#}	-	-	-	-	-	-	<0.05	-	mg/kg	A-T-019s
Benzo(k)fluoranthene _A ^{M#}	-	-	-	-	-	-	<0.07	-	mg/kg	A-T-019s
Chrysene _A ^{M#}	-	-	-	-	-	-	<0.06	-	mg/kg	A-T-019s
Dibenzo(ah)anthracene _A ^{M#}	-	-	-	-	-	-	<0.04	-	mg/kg	A-T-019s
Fluoranthene _A ^{M#}	-	-	-	-	-	-	<0.08	-	mg/kg	A-T-019s
Fluorene _A ^{M#}	-	-	-	-	-	-	0.11	-	mg/kg	A-T-019s
Indeno(123-cd)pyrene _A ^{M#}	-	-	-	-	-	-	<0.03	-	mg/kg	A-T-019s
Naphthalene _A ^{M#}	-	-	-	-	-	-	<0.03	-	mg/kg	A-T-019s
Phenanthrene _A ^{M#}	-	-	-	-	-	-	0.23	-	mg/kg	A-T-019s
Pyrene _A ^{M#}	-	-	-	-	-	-	<0.07	-	mg/kg	A-T-019s
Total PAH-16MS _A ^{M#}	-	-	-	-	-	-	0.37	-	mg/kg	A-T-019s

Envirolab Job Number: 18/06521

Client Project Name: Not specified

Client Project Ref: 325144

Lab Sample ID	18/06521/9	18/06521/10	18/06521/11	18/06521/12	18/06521/13	18/06521/14	18/06521/15	18/06521/16	Units	Method ref
Client Sample No										
Client Sample ID	BH104	BH105	BH105	BH105	BH105	BH106	BH106	BH106a		
Depth to Top	2.20	0.30	0.55	1.20	1.80	0.40	0.80	1.20		
Depth To Bottom	2.40	0.35	0.65	1.30	2.00	0.60	0.90	1.30		
Date Sampled	07-Aug-18	07-Aug-18	07-Aug-18	07-Aug-18	07-Aug-18	07-Aug-18	07-Aug-18	08-Aug-18		
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES		
Sample Matrix Code	1	6AE	5A	5A	4A	5AE	5A	5A		
SVOC+TICs										
SVOC TICs (Tentatively Identified Compounds) _A	-	None detected	-	-	-	Appended	None detected	None detected		A-T-052s
Hexachlorobenzene _A	-	<100	-	-	-	<1000	<100	<100	µg/kg	A-T-052s
Diethyl phthalate _A	-	<100	-	-	-	<1000	<100	<100	µg/kg	A-T-052s
Dimethyl phthalate _A	-	<100	-	-	-	<1000	<100	<100	µg/kg	A-T-052s
Dibenzofuran _A	-	<100	-	-	-	1110	<100	<100	µg/kg	A-T-052s
Carbazole _A	-	<100	-	-	-	<1000	<100	<100	µg/kg	A-T-052s
Butylbenzyl phthalate _A	-	<100	-	-	-	<1000	<100	<100	µg/kg	A-T-052s
Bis(2-ethylhexyl)phthalate _A	-	<500	-	-	-	<5000	<500	<500	µg/kg	A-T-052s
Bis(2-chloroethoxy)methane _A	-	<100	-	-	-	<1000	<100	<100	µg/kg	A-T-052s
Bis(2-chloroethyl)ether _A	-	<100	-	-	-	<1000	<100	<100	µg/kg	A-T-052s
4-Nitrophenol _A	-	<100	-	-	-	<1000	<100	<100	µg/kg	A-T-052s
4-Methylphenol _A	-	<100	-	-	-	<1000	<100	<100	µg/kg	A-T-052s
4-Chloro-3-methylphenol _A	-	<100	-	-	-	<1000	<100	<100	µg/kg	A-T-052s
2-Nitrophenol _A	-	<100	-	-	-	<1000	<100	<100	µg/kg	A-T-052s
2-Methylphenol _A	-	<100	-	-	-	<1000	<100	<100	µg/kg	A-T-052s
2-Chlorophenol _A	-	<100	-	-	-	<1000	<100	<100	µg/kg	A-T-052s
2,6-Dinitrotoluene _A	-	<100	-	-	-	<1000	<100	<100	µg/kg	A-T-052s
2,4-Dinitrotoluene _A	-	<100	-	-	-	<1000	<100	<100	µg/kg	A-T-052s
2,4-Dimethylphenol _A	-	<100	-	-	-	<1000	<100	<100	µg/kg	A-T-052s
2,4-Dichlorophenol _A	-	<100	-	-	-	<1000	<100	<100	µg/kg	A-T-052s
2,4,6-Trichlorophenol _A	-	<100	-	-	-	<1000	<100	<100	µg/kg	A-T-052s
2,4,5-Trichlorophenol _A	-	<100	-	-	-	<1000	<100	<100	µg/kg	A-T-052s
2-Chloronaphthalene _A	-	<100	-	-	-	<1000	<100	<100	µg/kg	A-T-052s
2-Methylnaphthalene _A	-	<100	-	-	-	10800	<100	<100	µg/kg	A-T-052s
Acenaphthylene _A	-	<100	-	-	-	<1000	-	<100	µg/kg	A-T-052s
Acenaphthene _A	-	<100	-	-	-	1600	-	<100	µg/kg	A-T-052s
Anthracene _A	-	<100	-	-	-	<1000	-	<100	µg/kg	A-T-052s
Benzo(a)anthracene _A	-	<100	-	-	-	<1000	-	<100	µg/kg	A-T-052s
Benzo(b)fluoranthene _A	-	<100	-	-	-	<1000	-	<100	µg/kg	A-T-052s
Benzo(k)fluoranthene _A	-	<100	-	-	-	<1000	-	<100	µg/kg	A-T-052s
Benzo(a)pyrene _A	-	<100	-	-	-	<1000	-	<100	µg/kg	A-T-052s
Benzo(ghi)perylene _A	-	<100	-	-	-	<1000	-	<100	µg/kg	A-T-052s

Envirolab Job Number: 18/06521

Client Project Name: Not specified

Client Project Ref: 325144

Lab Sample ID	18/06521/9	18/06521/10	18/06521/11	18/06521/12	18/06521/13	18/06521/14	18/06521/15	18/06521/16	Units	Method ref
Client Sample No										
Client Sample ID	BH104	BH105	BH105	BH105	BH105	BH106	BH106	BH106a		
Depth to Top	2.20	0.30	0.55	1.20	1.80	0.40	0.80	1.20		
Depth To Bottom	2.40	0.35	0.65	1.30	2.00	0.60	0.90	1.30		
Date Sampled	07-Aug-18	07-Aug-18	07-Aug-18	07-Aug-18	07-Aug-18	07-Aug-18	07-Aug-18	08-Aug-18		
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES		
Sample Matrix Code	1	6AE	5A	5A	4A	5AE	5A	5A		
Chrysene _A	-	<100	-	-	-	<1000	-	<100	µg/kg	A-T-052s
Fluoranthene _A	-	<100	-	-	-	<1000	-	<100	µg/kg	A-T-052s
Fluorene _A	-	<100	-	-	-	3100	-	<100	µg/kg	A-T-052s
Indeno(1,2,3-cd)pyrene _A	-	<100	-	-	-	<1000	-	<100	µg/kg	A-T-052s
Phenanthrene _A	-	<100	-	-	-	5480	-	<100	µg/kg	A-T-052s
Pyrene _A	-	<100	-	-	-	1340	-	<100	µg/kg	A-T-052s
Naphthalene _A	-	<100	-	-	-	2320	-	<100	µg/kg	A-T-052s
Dibenzo(ah)anthracene _A	-	<100	-	-	-	<1000	-	<100	µg/kg	A-T-052s
Bis(2-chloroisopropyl)ether _A	-	<100	-	-	-	<1000	<100	<100	µg/kg	A-T-052s
Phenol _A	-	<100	-	-	-	<1000	<100	<100	µg/kg	A-T-052s
Pentachlorophenol _A	-	<100	-	-	-	<1000	<100	<100	µg/kg	A-T-052s
n-Nitroso-n-dipropylamine _A	-	<100	-	-	-	<1000	<100	<100	µg/kg	A-T-052s
n-Dioctylphthalate _A	-	<500	-	-	-	<5000	<500	<500	µg/kg	A-T-052s
n-Dibutylphthalate _A	-	<100	-	-	-	<1000	<100	<100	µg/kg	A-T-052s
Nitrobenzene _A	-	<100	-	-	-	<1000	<100	<100	µg/kg	A-T-052s
Isophorone _A	-	<100	-	-	-	<1000	<100	<100	µg/kg	A-T-052s
Hexachloroethane _A	-	<100	-	-	-	<1000	<100	<100	µg/kg	A-T-052s
Hexachlorocyclopentadiene _A	-	<100	-	-	-	<1000	<100	<100	µg/kg	A-T-052s
Perylene _A	-	<100	-	-	-	<1000	<100	<100	µg/kg	A-T-052s

Envirolab Job Number: 18/06521

Client Project Name: Not specified

Client Project Ref: 325144

Lab Sample ID	18/06521/9	18/06521/10	18/06521/11	18/06521/12	18/06521/13	18/06521/14	18/06521/15	18/06521/16	Units	Method ref
Client Sample No										
Client Sample ID	BH104	BH105	BH105	BH105	BH105	BH106	BH106	BH106a		
Depth to Top	2.20	0.30	0.55	1.20	1.80	0.40	0.80	1.20		
Depth To Bottom	2.40	0.35	0.65	1.30	2.00	0.60	0.90	1.30		
Date Sampled	07-Aug-18	07-Aug-18	07-Aug-18	07-Aug-18	07-Aug-18	07-Aug-18	07-Aug-18	08-Aug-18		
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES		
Sample Matrix Code	1	6AE	5A	5A	4A	5AE	5A	5A		
VOC+TICs										
Dichlorodifluoromethane _A	-	<1	-	-	-	<1	<1	<1	µg/kg	A-T-006s
Chloromethane _A	-	<10	-	-	-	<10	<10	<10	µg/kg	A-T-006s
Vinyl Chloride _A [#]	-	<1	-	-	-	<1	<1	<1	µg/kg	A-T-006s
Bromomethane _A [#]	-	<1	-	-	-	<1	<1	<1	µg/kg	A-T-006s
Chloroethane _A [#]	-	<1	-	-	-	<1	<1	<1	µg/kg	A-T-006s
Trichlorofluoromethane _A [#]	-	<1	-	-	-	<1	<1	<1	µg/kg	A-T-006s
1,1-Dichloroethene _A [#]	-	<1	-	-	-	<1	<1	<1	µg/kg	A-T-006s
Carbon Disulphide _A [#]	-	<1	-	-	-	<1	<1	<1	µg/kg	A-T-006s
Dichloromethane _A	-	<10	-	-	-	<5	<10	<10	µg/kg	A-T-006s
trans 1,2-Dichloroethene _A [#]	-	<1	-	-	-	<1	<1	<1	µg/kg	A-T-006s
1,1-Dichloroethane _A [#]	-	<1	-	-	-	<1	<1	<1	µg/kg	A-T-006s
cis 1,2-Dichloroethene _A [#]	-	<1	-	-	-	<1	<1	<1	µg/kg	A-T-006s
2,2-Dichloropropane _A [#]	-	<1	-	-	-	<1	<1	<1	µg/kg	A-T-006s
Bromochloromethane _A [#]	-	<5	-	-	-	<5	<5	<5	µg/kg	A-T-006s
Chloroform _A [#]	-	<1	-	-	-	<1	<1	<1	µg/kg	A-T-006s
1,1,1-Trichloroethane _A [#]	-	<1	-	-	-	<1	<1	<1	µg/kg	A-T-006s
1,1-Dichloropropene _A [#]	-	<1	-	-	-	<1	<1	<1	µg/kg	A-T-006s
Carbon Tetrachloride _A [#]	-	<1	-	-	-	<1	<1	<1	µg/kg	A-T-006s
1,2-Dichloroethane _A [#]	-	<2	-	-	-	<2	<2	<2	µg/kg	A-T-006s
Benzene _A [#]	-	<1	-	-	-	<1	<1	<1	µg/kg	A-T-006s
Trichloroethene _A [#]	-	<1	-	-	-	<1	<1	<1	µg/kg	A-T-006s
1,2-Dichloropropane _A [#]	-	<1	-	-	-	<1	<1	<1	µg/kg	A-T-006s
Dibromomethane _A [#]	-	<1	-	-	-	<1	<1	<1	µg/kg	A-T-006s
Bromodichloromethane _A [#]	-	<10	-	-	-	<10	<10	<10	µg/kg	A-T-006s
cis 1,3-Dichloropropene _A [#]	-	<1	-	-	-	<1	<1	<1	µg/kg	A-T-006s
Toluene _A [#]	-	<1	-	-	-	<1	<1	<1	µg/kg	A-T-006s
trans 1,3-Dichloropropene _A [#]	-	<1	-	-	-	<1	<1	<1	µg/kg	A-T-006s
1,1,2-Trichloroethane _A [#]	-	<1	-	-	-	<1	<1	<1	µg/kg	A-T-006s
1,3-Dichloropropane _A [#]	-	<1	-	-	-	<1	<1	<1	µg/kg	A-T-006s
Tetrachloroethene _A [#]	-	<1	-	-	-	<1	<1	<1	µg/kg	A-T-006s
Dibromochloromethane _A [#]	-	<3	-	-	-	<3	<3	<3	µg/kg	A-T-006s
1,2-Dibromoethane _A [#]	-	<1	-	-	-	<1	<1	<1	µg/kg	A-T-006s

Envirolab Job Number: 18/06521

Client Project Name: Not specified

Client Project Ref: 325144

Lab Sample ID	18/06521/9	18/06521/10	18/06521/11	18/06521/12	18/06521/13	18/06521/14	18/06521/15	18/06521/16	Units	Method ref
Client Sample No										
Client Sample ID	BH104	BH105	BH105	BH105	BH105	BH106	BH106	BH106a		
Depth to Top	2.20	0.30	0.55	1.20	1.80	0.40	0.80	1.20		
Depth To Bottom	2.40	0.35	0.65	1.30	2.00	0.60	0.90	1.30		
Date Sampled	07-Aug-18	07-Aug-18	07-Aug-18	07-Aug-18	07-Aug-18	07-Aug-18	07-Aug-18	08-Aug-18		
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES		
Sample Matrix Code	1	6AE	5A	5A	4A	5AE	5A	5A		
Chlorobenzene _A [#]	-	<1	-	-	-	<1	<1	<1	µg/kg	A-T-006s
1,1,1,2-Tetrachloroethane _A	-	<1	-	-	-	<1	<1	<1	µg/kg	A-T-006s
Ethylbenzene _A [#]	-	<1	-	-	-	2	<1	<1	µg/kg	A-T-006s
m & p Xylene _A [#]	-	<1	-	-	-	1	<1	<1	µg/kg	A-T-006s
o-Xylene _A [#]	-	<1	-	-	-	<1	<1	<1	µg/kg	A-T-006s
Styrene _A [#]	-	<1	-	-	-	<1	<1	<1	µg/kg	A-T-006s
Bromoform _A [#]	-	<1	-	-	-	<1	<1	<1	µg/kg	A-T-006s
Isopropylbenzene _A [#]	-	<1	-	-	-	3	<1	<1	µg/kg	A-T-006s
1,1,2,2-Tetrachloroethane _A	-	<1	-	-	-	<1	<1	<1	µg/kg	A-T-006s
1,2,3-Trichloropropane _A [#]	-	<1	-	-	-	<1	<1	<1	µg/kg	A-T-006s
Bromobenzene _A [#]	-	<1	-	-	-	<1	<1	<1	µg/kg	A-T-006s
n-Propylbenzene _A [#]	-	<1	-	-	-	4	<1	<1	µg/kg	A-T-006s
2-Chlorotoluene _A [#]	-	<1	-	-	-	<1	<1	<1	µg/kg	A-T-006s
1,3,5-Trimethylbenzene _A [#]	-	<1	-	-	-	2	<1	<1	µg/kg	A-T-006s
4-Chlorotoluene _A [#]	-	<1	-	-	-	<1	<1	<1	µg/kg	A-T-006s
tert-Butylbenzene _A [#]	-	<2	-	-	-	<2	<2	<2	µg/kg	A-T-006s
1,2,4-Trimethylbenzene _A [#]	-	<1	-	-	-	15	<1	<1	µg/kg	A-T-006s
sec-Butylbenzene _A [#]	-	<1	-	-	-	3	1	<1	µg/kg	A-T-006s
4-Isopropyltoluene _A [#]	-	<1	-	-	-	3	<1	<1	µg/kg	A-T-006s
1,3-Dichlorobenzene _A	-	<1	-	-	-	<1	<1	<1	µg/kg	A-T-006s
1,4-Dichlorobenzene _A [#]	-	<1	-	-	-	<1	<1	<1	µg/kg	A-T-006s
n-Butylbenzene _A [#]	-	<1	-	-	-	3	<1	<1	µg/kg	A-T-006s
1,2-Dichlorobenzene _A [#]	-	<1	-	-	-	<1	<1	<1	µg/kg	A-T-006s
1,2-Dibromo-3-chloropropane _A	-	<2	-	-	-	<2	<2	<2	µg/kg	A-T-006s
1,2,4-Trichlorobenzene _A	-	<3	-	-	-	<3	<3	<3	µg/kg	A-T-006s
Hexachlorobutadiene _A [#]	-	<1	-	-	-	<1	<1	<1	µg/kg	A-T-006s
1,2,3-Trichlorobenzene _A	-	<3	-	-	-	<3	<3	<3	µg/kg	A-T-006s
VOC TICs _A	-	None detected	-	-	-	Appended	Appended	None detected		A-T-006s

Envirolab Job Number: 18/06521

Client Project Name: Not specified

Client Project Ref: 325144

Lab Sample ID	18/06521/9	18/06521/10	18/06521/11	18/06521/12	18/06521/13	18/06521/14	18/06521/15	18/06521/16	Units	Method ref
Client Sample No										
Client Sample ID	BH104	BH105	BH105	BH105	BH105	BH106	BH106	BH106a		
Depth to Top	2.20	0.30	0.55	1.20	1.80	0.40	0.80	1.20		
Depth To Bottom	2.40	0.35	0.65	1.30	2.00	0.60	0.90	1.30		
Date Sampled	07-Aug-18	07-Aug-18	07-Aug-18	07-Aug-18	07-Aug-18	07-Aug-18	07-Aug-18	08-Aug-18		
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES		
Sample Matrix Code	1	6AE	5A	5A	4A	5AE	5A	5A		
TPH CWG										
Ali >C5-C6 _A [#]	-	<0.01	-	-	-	<0.01	<0.01	<0.01	mg/kg	A-T-022s
Ali >C6-C8 _A [#]	-	<0.01	-	-	-	0.10	<0.01	<0.01	mg/kg	A-T-022s
Ali >C8-C10 _A ^{M#}	-	<1	-	-	-	17	<1	<1	mg/kg	A-T-055s
Ali >C10-C12 _A ^{M#}	-	<1	-	-	-	38	2	<1	mg/kg	A-T-055s
Ali >C12-C16 _A ^{M#}	-	<1	-	-	-	192	21	<1	mg/kg	A-T-055s
Ali >C16-C21 _A ^{M#}	-	<1	-	-	-	264	27	<1	mg/kg	A-T-055s
Ali >C21-C35 _A	-	2	-	-	-	74	5	<1	mg/kg	A-T-055s
Total Aliphatics >C5-C35 _A	-	2	-	-	-	585	55	<1	mg/kg	A-T-055s
Aro >C5-C7 _A [#]	-	<0.01	-	-	-	<0.01	<0.01	<0.01	mg/kg	A-T-022s
Aro >C7-C8 _A [#]	-	<0.01	-	-	-	<0.01	<0.01	<0.01	mg/kg	A-T-022s
Aro >C8-C10 _A ^{M#}	-	<1	-	-	-	12	<1	<1	mg/kg	A-T-055s
Aro >C10-C12 _A ^{M#}	-	<1	-	-	-	51	2	<1	mg/kg	A-T-055s
Aro >C12-C16 _A	-	<1	-	-	-	229	24	<1	mg/kg	A-T-055s
Aro >C16-C21 _A ^{M#}	-	<1	-	-	-	213	25	<1	mg/kg	A-T-055s
Aro >C21-C35 _A ^{M#}	-	3	-	-	-	63	9	<1	mg/kg	A-T-055s
Total Aromatics >C5-C35 _A	-	3	-	-	-	569	58	<1	mg/kg	A-T-055s
TPH (Ali & Aro >C5-C35) _A	-	5	-	-	-	1150	114	<1	mg/kg	A-T-055s
BTEX - Benzene _A [#]	-	<0.01	-	-	-	<0.01	<0.01	<0.01	mg/kg	A-T-022s
BTEX - Toluene _A [#]	-	<0.01	-	-	-	<0.01	<0.01	<0.01	mg/kg	A-T-022s
BTEX - Ethyl Benzene _A [#]	-	<0.01	-	-	-	0.02	<0.01	<0.01	mg/kg	A-T-022s
BTEX - m & p Xylene _A [#]	-	<0.01	-	-	-	<0.01	<0.01	<0.01	mg/kg	A-T-022s
BTEX - o Xylene _A [#]	-	<0.01	-	-	-	<0.01	<0.01	<0.01	mg/kg	A-T-022s
MTBE _A [#]	-	<0.01	-	-	-	<0.01	<0.01	<0.01	mg/kg	A-T-022s

Envirolab Job Number: 18/06521

Client Project Name: Not specified

Client Project Ref: 325144

Lab Sample ID	18/06521/17	18/06521/18	18/06521/19	18/06521/20	18/06521/21	18/06521/22	18/06521/23	18/06521/25	Units	Method ref
Client Sample No										
Client Sample ID	BH106a	BH107	BH107	BH107	BH108	BH108	BH109	BH109		
Depth to Top	2.30	0.20	0.70	1.80	0.80	2.70	0.30	1.10		
Depth To Bottom	2.50	0.40	0.90	2.00	1.20	2.80				
Date Sampled	08-Aug-18	06-Aug-18	06-Aug-18	07-Aug-18	07-Aug-18	07-Aug-18	06-Aug-18	06-Aug-18		
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES		
Sample Matrix Code	1A	5A	5A	4A	5A	5A	5A	5A		
% Stones >10mm _A	20.3	1.3	0.9	36.4	14.9	6.6	2.2	2.3	% w/w	A-T-044
pH _D ^{M#}	8.56	-	-	-	8.21	8.27	7.93	8.57	pH	A-T-031s
Sulphate (acid soluble) _D ^{M#}	<200	-	-	-	-	440	-	-	mg/kg	A-T-028s
Sulphide _A	7	-	-	-	-	10	-	-	mg/kg	A-T-S2-s
Total Organic Carbon _D ^{M#}	0.70	-	-	-	-	-	-	-	% w/w	A-T-032s
Arsenic _D ^{M#}	<1	<1	-	<1	<1	<1	2	<1	mg/kg	A-T-024s
Cadmium _D ^{M#}	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	mg/kg	A-T-024s
Copper _D ^{M#}	<1	8	-	<1	9	<1	16	<1	mg/kg	A-T-024s
Chromium _D ^{M#}	6	9	-	5	8	8	18	9	mg/kg	A-T-024s
Lead _D ^{M#}	2	13	-	<1	14	2	22	2	mg/kg	A-T-024s
Mercury _D	<0.17	<0.17	-	<0.17	<0.17	<0.17	<0.17	<0.17	mg/kg	A-T-024s
Nickel _D ^{M#}	5	7	-	4	6	7	9	7	mg/kg	A-T-024s
Selenium _D [#]	<1	2	-	<1	<1	<1	<1	<1	mg/kg	A-T-024s
Zinc _D ^{M#}	8	35	-	6	42	10	57	11	mg/kg	A-T-024s
TPH total (>C6-C40) _A ^{M#}	-	<10	-	-	-	12	-	-	mg/kg	A-T-007s

Envirolab Job Number: 18/06521

Client Project Name: Not specified

Client Project Ref: 325144

Lab Sample ID	18/06521/17	18/06521/18	18/06521/19	18/06521/20	18/06521/21	18/06521/22	18/06521/23	18/06521/25	Units	Method ref
Client Sample No										
Client Sample ID	BH106a	BH107	BH107	BH107	BH108	BH108	BH109	BH109		
Depth to Top	2.30	0.20	0.70	1.80	0.80	2.70	0.30	1.10		
Depth To Bottom	2.50	0.40	0.90	2.00	1.20	2.80				
Date Sampled	08-Aug-18	06-Aug-18	06-Aug-18	07-Aug-18	07-Aug-18	07-Aug-18	06-Aug-18	06-Aug-18		
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES		
Sample Matrix Code	1A	5A	5A	4A	5A	5A	5A	5A		
Asbestos in Soil (inc. matrix)										
Asbestos in soil [#]	NAD	-	-	-	NAD	NAD	-	-		A-T-045
Asbestos ACM - Suitable for Water Absorption Test?	N/A	-	-	-	N/A	N/A	-	-		

Envirolab Job Number: 18/06521

Client Project Name: Not specified

Client Project Ref: 325144

Lab Sample ID	18/06521/17	18/06521/18	18/06521/19	18/06521/20	18/06521/21	18/06521/22	18/06521/23	18/06521/25	Units	Method ref
Client Sample No										
Client Sample ID	BH106a	BH107	BH107	BH107	BH108	BH108	BH109	BH109		
Depth to Top	2.30	0.20	0.70	1.80	0.80	2.70	0.30	1.10		
Depth To Bottom	2.50	0.40	0.90	2.00	1.20	2.80				
Date Sampled	08-Aug-18	06-Aug-18	06-Aug-18	07-Aug-18	07-Aug-18	07-Aug-18	06-Aug-18	06-Aug-18		
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES		
Sample Matrix Code	1A	5A	5A	4A	5A	5A	5A	5A		
PAH-16MS										
Acenaphthene _A ^{M#}	-	-	<0.01	-	-	<0.01	-	-	mg/kg	A-T-019s
Acenaphthylene _A ^{M#}	-	-	<0.01	-	-	<0.01	-	-	mg/kg	A-T-019s
Anthracene _A ^{M#}	-	-	<0.02	-	-	<0.02	-	-	mg/kg	A-T-019s
Benzo(a)anthracene _A ^{M#}	-	-	<0.04	-	-	<0.04	-	-	mg/kg	A-T-019s
Benzo(a)pyrene _A ^{M#}	-	-	<0.04	-	-	<0.04	-	-	mg/kg	A-T-019s
Benzo(b)fluoranthene _A ^{M#}	-	-	<0.05	-	-	<0.05	-	-	mg/kg	A-T-019s
Benzo(ghi)perylene _A ^{M#}	-	-	<0.05	-	-	<0.05	-	-	mg/kg	A-T-019s
Benzo(k)fluoranthene _A ^{M#}	-	-	<0.07	-	-	<0.07	-	-	mg/kg	A-T-019s
Chrysene _A ^{M#}	-	-	<0.06	-	-	<0.06	-	-	mg/kg	A-T-019s
Dibenzo(ah)anthracene _A ^{M#}	-	-	<0.04	-	-	<0.04	-	-	mg/kg	A-T-019s
Fluoranthene _A ^{M#}	-	-	<0.08	-	-	<0.08	-	-	mg/kg	A-T-019s
Fluorene _A ^{M#}	-	-	<0.01	-	-	<0.01	-	-	mg/kg	A-T-019s
Indeno(123-cd)pyrene _A ^{M#}	-	-	<0.03	-	-	<0.03	-	-	mg/kg	A-T-019s
Naphthalene _A ^{M#}	-	-	<0.03	-	-	<0.03	-	-	mg/kg	A-T-019s
Phenanthrene _A ^{M#}	-	-	<0.03	-	-	<0.03	-	-	mg/kg	A-T-019s
Pyrene _A ^{M#}	-	-	<0.07	-	-	<0.07	-	-	mg/kg	A-T-019s
Total PAH-16MS _A ^{M#}	-	-	<0.08	-	-	<0.08	-	-	mg/kg	A-T-019s

Envirolab Job Number: 18/06521

Client Project Name: Not specified

Client Project Ref: 325144

Lab Sample ID	18/06521/17	18/06521/18	18/06521/19	18/06521/20	18/06521/21	18/06521/22	18/06521/23	18/06521/25	Units	Method ref
Client Sample No										
Client Sample ID	BH106a	BH107	BH107	BH107	BH108	BH108	BH109	BH109		
Depth to Top	2.30	0.20	0.70	1.80	0.80	2.70	0.30	1.10		
Depth To Bottom	2.50	0.40	0.90	2.00	1.20	2.80				
Date Sampled	08-Aug-18	06-Aug-18	06-Aug-18	07-Aug-18	07-Aug-18	07-Aug-18	06-Aug-18	06-Aug-18		
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES		
Sample Matrix Code	1A	5A	5A	4A	5A	5A	5A	5A		
SVOC+TICs										
SVOC TICs (Tentatively Identified Compounds) _A	None detected	-	-	-	-	-	-	-		A-T-052s
Hexachlorobenzene _A	<100	-	-	-	-	-	-	-	µg/kg	A-T-052s
Diethyl phthalate _A	<100	-	-	-	-	-	-	-	µg/kg	A-T-052s
Dimethyl phthalate _A	<100	-	-	-	-	-	-	-	µg/kg	A-T-052s
Dibenzofuran _A	<100	-	-	-	-	-	-	-	µg/kg	A-T-052s
Carbazole _A	<100	-	-	-	-	-	-	-	µg/kg	A-T-052s
Butylbenzyl phthalate _A	<100	-	-	-	-	-	-	-	µg/kg	A-T-052s
Bis(2-ethylhexyl)phthalate _A	<500	-	-	-	-	-	-	-	µg/kg	A-T-052s
Bis(2-chloroethoxy)methane _A	<100	-	-	-	-	-	-	-	µg/kg	A-T-052s
Bis(2-chloroethyl)ether _A	<100	-	-	-	-	-	-	-	µg/kg	A-T-052s
4-Nitrophenol _A	<100	-	-	-	-	-	-	-	µg/kg	A-T-052s
4-Methylphenol _A	<100	-	-	-	-	-	-	-	µg/kg	A-T-052s
4-Chloro-3-methylphenol _A	<100	-	-	-	-	-	-	-	µg/kg	A-T-052s
2-Nitrophenol _A	<100	-	-	-	-	-	-	-	µg/kg	A-T-052s
2-Methylphenol _A	<100	-	-	-	-	-	-	-	µg/kg	A-T-052s
2-Chlorophenol _A	<100	-	-	-	-	-	-	-	µg/kg	A-T-052s
2,6-Dinitrotoluene _A	<100	-	-	-	-	-	-	-	µg/kg	A-T-052s
2,4-Dinitrotoluene _A	<100	-	-	-	-	-	-	-	µg/kg	A-T-052s
2,4-Dimethylphenol _A	<100	-	-	-	-	-	-	-	µg/kg	A-T-052s
2,4-Dichlorophenol _A	<100	-	-	-	-	-	-	-	µg/kg	A-T-052s
2,4,6-Trichlorophenol _A	<100	-	-	-	-	-	-	-	µg/kg	A-T-052s
2,4,5-Trichlorophenol _A	<100	-	-	-	-	-	-	-	µg/kg	A-T-052s
2-Chloronaphthalene _A	<100	-	-	-	-	-	-	-	µg/kg	A-T-052s
2-Methylnaphthalene _A	<100	-	-	-	-	-	-	-	µg/kg	A-T-052s
Acenaphthylene _A	<100	-	-	-	-	-	-	-	µg/kg	A-T-052s
Acenaphthene _A	<100	-	-	-	-	-	-	-	µg/kg	A-T-052s
Anthracene _A	<100	-	-	-	-	-	-	-	µg/kg	A-T-052s
Benzo(a)anthracene _A	<100	-	-	-	-	-	-	-	µg/kg	A-T-052s
Benzo(b)fluoranthene _A	<100	-	-	-	-	-	-	-	µg/kg	A-T-052s
Benzo(k)fluoranthene _A	<100	-	-	-	-	-	-	-	µg/kg	A-T-052s
Benzo(a)pyrene _A	<100	-	-	-	-	-	-	-	µg/kg	A-T-052s
Benzo(ghi)perylene _A	<100	-	-	-	-	-	-	-	µg/kg	A-T-052s

Envirolab Job Number: 18/06521

Client Project Name: Not specified

Client Project Ref: 325144

Lab Sample ID	18/06521/17	18/06521/18	18/06521/19	18/06521/20	18/06521/21	18/06521/22	18/06521/23	18/06521/25	Units	Method ref
Client Sample No										
Client Sample ID	BH106a	BH107	BH107	BH107	BH108	BH108	BH109	BH109		
Depth to Top	2.30	0.20	0.70	1.80	0.80	2.70	0.30	1.10		
Depth To Bottom	2.50	0.40	0.90	2.00	1.20	2.80				
Date Sampled	08-Aug-18	06-Aug-18	06-Aug-18	07-Aug-18	07-Aug-18	07-Aug-18	06-Aug-18	06-Aug-18		
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES		
Sample Matrix Code	1A	5A	5A	4A	5A	5A	5A	5A		
Chrysene _A	<100	-	-	-	-	-	-	-	µg/kg	A-T-052s
Fluoranthene _A	<100	-	-	-	-	-	-	-	µg/kg	A-T-052s
Fluorene _A	<100	-	-	-	-	-	-	-	µg/kg	A-T-052s
Indeno(1,2,3-cd)pyrene _A	<100	-	-	-	-	-	-	-	µg/kg	A-T-052s
Phenanthrene _A	<100	-	-	-	-	-	-	-	µg/kg	A-T-052s
Pyrene _A	<100	-	-	-	-	-	-	-	µg/kg	A-T-052s
Naphthalene _A	<100	-	-	-	-	-	-	-	µg/kg	A-T-052s
Dibenzo(ah)anthracene _A	<100	-	-	-	-	-	-	-	µg/kg	A-T-052s
Bis(2-chloroisopropyl)ether _A	<100	-	-	-	-	-	-	-	µg/kg	A-T-052s
Phenol _A	<100	-	-	-	-	-	-	-	µg/kg	A-T-052s
Pentachlorophenol _A	<100	-	-	-	-	-	-	-	µg/kg	A-T-052s
n-Nitroso-n-dipropylamine _A	<100	-	-	-	-	-	-	-	µg/kg	A-T-052s
n-Dioctylphthalate _A	<500	-	-	-	-	-	-	-	µg/kg	A-T-052s
n-Dibutylphthalate _A	<100	-	-	-	-	-	-	-	µg/kg	A-T-052s
Nitrobenzene _A	<100	-	-	-	-	-	-	-	µg/kg	A-T-052s
Isophorone _A	<100	-	-	-	-	-	-	-	µg/kg	A-T-052s
Hexachloroethane _A	<100	-	-	-	-	-	-	-	µg/kg	A-T-052s
Hexachlorocyclopentadiene _A	<100	-	-	-	-	-	-	-	µg/kg	A-T-052s
Perylene _A	<100	-	-	-	-	-	-	-	µg/kg	A-T-052s

Envirolab Job Number: 18/06521

Client Project Name: Not specified

Client Project Ref: 325144

Lab Sample ID	18/06521/17	18/06521/18	18/06521/19	18/06521/20	18/06521/21	18/06521/22	18/06521/23	18/06521/25	Units	Method ref
Client Sample No										
Client Sample ID	BH106a	BH107	BH107	BH107	BH108	BH108	BH109	BH109		
Depth to Top	2.30	0.20	0.70	1.80	0.80	2.70	0.30	1.10		
Depth To Bottom	2.50	0.40	0.90	2.00	1.20	2.80				
Date Sampled	08-Aug-18	06-Aug-18	06-Aug-18	07-Aug-18	07-Aug-18	07-Aug-18	06-Aug-18	06-Aug-18		
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES		
Sample Matrix Code	1A	5A	5A	4A	5A	5A	5A	5A		
VOC+TICs										
Dichlorodifluoromethane _A	<1	-	-	-	-	-	-	-	µg/kg	A-T-006s
Chloromethane _A	<10	-	-	-	-	-	-	-	µg/kg	A-T-006s
Vinyl Chloride _A [#]	<1	-	-	-	-	-	-	-	µg/kg	A-T-006s
Bromomethane _A [#]	<1	-	-	-	-	-	-	-	µg/kg	A-T-006s
Chloroethane _A [#]	<1	-	-	-	-	-	-	-	µg/kg	A-T-006s
Trichlorofluoromethane _A [#]	<1	-	-	-	-	-	-	-	µg/kg	A-T-006s
1,1-Dichloroethene _A [#]	<1	-	-	-	-	-	-	-	µg/kg	A-T-006s
Carbon Disulphide _A [#]	<1	-	-	-	-	-	-	-	µg/kg	A-T-006s
Dichloromethane _A	<10	-	-	-	-	-	-	-	µg/kg	A-T-006s
trans 1,2-Dichloroethene _A [#]	<1	-	-	-	-	-	-	-	µg/kg	A-T-006s
1,1-Dichloroethane _A [#]	<1	-	-	-	-	-	-	-	µg/kg	A-T-006s
cis 1,2-Dichloroethene _A [#]	<1	-	-	-	-	-	-	-	µg/kg	A-T-006s
2,2-Dichloropropane _A [#]	<1	-	-	-	-	-	-	-	µg/kg	A-T-006s
Bromochloromethane _A [#]	<5	-	-	-	-	-	-	-	µg/kg	A-T-006s
Chloroform _A [#]	<1	-	-	-	-	-	-	-	µg/kg	A-T-006s
1,1,1-Trichloroethane _A [#]	<1	-	-	-	-	-	-	-	µg/kg	A-T-006s
1,1-Dichloropropene _A [#]	<1	-	-	-	-	-	-	-	µg/kg	A-T-006s
Carbon Tetrachloride _A [#]	<1	-	-	-	-	-	-	-	µg/kg	A-T-006s
1,2-Dichloroethane _A [#]	<2	-	-	-	-	-	-	-	µg/kg	A-T-006s
Benzene _A [#]	<1	-	-	-	-	-	-	-	µg/kg	A-T-006s
Trichloroethene _A [#]	<1	-	-	-	-	-	-	-	µg/kg	A-T-006s
1,2-Dichloropropane _A [#]	<1	-	-	-	-	-	-	-	µg/kg	A-T-006s
Dibromomethane _A [#]	<1	-	-	-	-	-	-	-	µg/kg	A-T-006s
Bromodichloromethane _A [#]	<10	-	-	-	-	-	-	-	µg/kg	A-T-006s
cis 1,3-Dichloropropene _A [#]	<1	-	-	-	-	-	-	-	µg/kg	A-T-006s
Toluene _A [#]	<1	-	-	-	-	-	-	-	µg/kg	A-T-006s
trans 1,3-Dichloropropene _A [#]	<1	-	-	-	-	-	-	-	µg/kg	A-T-006s
1,1,2-Trichloroethane _A [#]	<1	-	-	-	-	-	-	-	µg/kg	A-T-006s
1,3-Dichloropropane _A [#]	<1	-	-	-	-	-	-	-	µg/kg	A-T-006s
Tetrachloroethene _A [#]	<1	-	-	-	-	-	-	-	µg/kg	A-T-006s
Dibromochloromethane _A [#]	<3	-	-	-	-	-	-	-	µg/kg	A-T-006s
1,2-Dibromoethane _A [#]	<1	-	-	-	-	-	-	-	µg/kg	A-T-006s

Envirolab Job Number: 18/06521

Client Project Name: Not specified

Client Project Ref: 325144

Lab Sample ID	18/06521/17	18/06521/18	18/06521/19	18/06521/20	18/06521/21	18/06521/22	18/06521/23	18/06521/25	Units	Method ref
Client Sample No										
Client Sample ID	BH106a	BH107	BH107	BH107	BH108	BH108	BH109	BH109		
Depth to Top	2.30	0.20	0.70	1.80	0.80	2.70	0.30	1.10		
Depth To Bottom	2.50	0.40	0.90	2.00	1.20	2.80				
Date Sampled	08-Aug-18	06-Aug-18	06-Aug-18	07-Aug-18	07-Aug-18	07-Aug-18	06-Aug-18	06-Aug-18		
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES		
Sample Matrix Code	1A	5A	5A	4A	5A	5A	5A	5A		
Chlorobenzene _A [#]	<1	-	-	-	-	-	-	-	µg/kg	A-T-006s
1,1,1,2-Tetrachloroethane _A	<1	-	-	-	-	-	-	-	µg/kg	A-T-006s
Ethylbenzene _A [#]	<1	-	-	-	-	-	-	-	µg/kg	A-T-006s
m & p Xylene _A [#]	<1	-	-	-	-	-	-	-	µg/kg	A-T-006s
o-Xylene _A [#]	<1	-	-	-	-	-	-	-	µg/kg	A-T-006s
Styrene _A [#]	<1	-	-	-	-	-	-	-	µg/kg	A-T-006s
Bromoform _A [#]	<1	-	-	-	-	-	-	-	µg/kg	A-T-006s
Isopropylbenzene _A [#]	<1	-	-	-	-	-	-	-	µg/kg	A-T-006s
1,1,2,2-Tetrachloroethane _A	<1	-	-	-	-	-	-	-	µg/kg	A-T-006s
1,2,3-Trichloropropane _A [#]	<1	-	-	-	-	-	-	-	µg/kg	A-T-006s
Bromobenzene _A [#]	<1	-	-	-	-	-	-	-	µg/kg	A-T-006s
n-Propylbenzene _A [#]	<1	-	-	-	-	-	-	-	µg/kg	A-T-006s
2-Chlorotoluene _A [#]	<1	-	-	-	-	-	-	-	µg/kg	A-T-006s
1,3,5-Trimethylbenzene _A [#]	<1	-	-	-	-	-	-	-	µg/kg	A-T-006s
4-Chlorotoluene _A [#]	<1	-	-	-	-	-	-	-	µg/kg	A-T-006s
tert-Butylbenzene _A [#]	<2	-	-	-	-	-	-	-	µg/kg	A-T-006s
1,2,4-Trimethylbenzene _A [#]	<1	-	-	-	-	-	-	-	µg/kg	A-T-006s
sec-Butylbenzene _A [#]	<1	-	-	-	-	-	-	-	µg/kg	A-T-006s
4-Isopropyltoluene _A [#]	<1	-	-	-	-	-	-	-	µg/kg	A-T-006s
1,3-Dichlorobenzene _A	<1	-	-	-	-	-	-	-	µg/kg	A-T-006s
1,4-Dichlorobenzene _A [#]	<1	-	-	-	-	-	-	-	µg/kg	A-T-006s
n-Butylbenzene _A [#]	<1	-	-	-	-	-	-	-	µg/kg	A-T-006s
1,2-Dichlorobenzene _A [#]	<1	-	-	-	-	-	-	-	µg/kg	A-T-006s
1,2-Dibromo-3-chloropropane _A	<2	-	-	-	-	-	-	-	µg/kg	A-T-006s
1,2,4-Trichlorobenzene _A	<3	-	-	-	-	-	-	-	µg/kg	A-T-006s
Hexachlorobutadiene _A [#]	<1	-	-	-	-	-	-	-	µg/kg	A-T-006s
1,2,3-Trichlorobenzene _A	<3	-	-	-	-	-	-	-	µg/kg	A-T-006s
VOC TICs _A	Appended	-	-	-	-	-	-	-		A-T-006s

Envirolab Job Number: 18/06521

Client Project Name: Not specified

Client Project Ref: 325144

Lab Sample ID	18/06521/17	18/06521/18	18/06521/19	18/06521/20	18/06521/21	18/06521/22	18/06521/23	18/06521/25	Units	Method ref
Client Sample No										
Client Sample ID	BH106a	BH107	BH107	BH107	BH108	BH108	BH109	BH109		
Depth to Top	2.30	0.20	0.70	1.80	0.80	2.70	0.30	1.10		
Depth To Bottom	2.50	0.40	0.90	2.00	1.20	2.80				
Date Sampled	08-Aug-18	06-Aug-18	06-Aug-18	07-Aug-18	07-Aug-18	07-Aug-18	06-Aug-18	06-Aug-18		
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES		
Sample Matrix Code	1A	5A	5A	4A	5A	5A	5A	5A		
TPH CWG										
Ali >C5-C6 _A [#]	<0.01	-	-	-	-	-	-	-	mg/kg	A-T-022s
Ali >C6-C8 _A [#]	<0.01	-	-	-	-	-	-	-	mg/kg	A-T-022s
Ali >C8-C10 _A ^{M#}	<1	-	-	-	-	-	-	-	mg/kg	A-T-055s
Ali >C10-C12 _A ^{M#}	<1	-	-	-	-	-	-	-	mg/kg	A-T-055s
Ali >C12-C16 _A ^{M#}	<1	-	-	-	-	-	-	-	mg/kg	A-T-055s
Ali >C16-C21 _A ^{M#}	<1	-	-	-	-	-	-	-	mg/kg	A-T-055s
Ali >C21-C35 _A	<1	-	-	-	-	-	-	-	mg/kg	A-T-055s
Total Aliphatics >C5-C35 _A	<1	-	-	-	-	-	-	-	mg/kg	A-T-055s
Aro >C5-C7 _A [#]	<0.01	-	-	-	-	-	-	-	mg/kg	A-T-022s
Aro >C7-C8 _A [#]	<0.01	-	-	-	-	-	-	-	mg/kg	A-T-022s
Aro >C8-C10 _A ^{M#}	<1	-	-	-	-	-	-	-	mg/kg	A-T-055s
Aro >C10-C12 _A ^{M#}	<1	-	-	-	-	-	-	-	mg/kg	A-T-055s
Aro >C12-C16 _A	<1	-	-	-	-	-	-	-	mg/kg	A-T-055s
Aro >C16-C21 _A ^{M#}	<1	-	-	-	-	-	-	-	mg/kg	A-T-055s
Aro >C21-C35 _A ^{M#}	<1	-	-	-	-	-	-	-	mg/kg	A-T-055s
Total Aromatics >C5-C35 _A	<1	-	-	-	-	-	-	-	mg/kg	A-T-055s
TPH (Ali & Aro >C5-C35) _A	<1	-	-	-	-	-	-	-	mg/kg	A-T-055s
BTEX - Benzene _A [#]	<0.01	-	-	-	-	-	-	-	mg/kg	A-T-022s
BTEX - Toluene _A [#]	<0.01	-	-	-	-	-	-	-	mg/kg	A-T-022s
BTEX - Ethyl Benzene _A [#]	<0.01	-	-	-	-	-	-	-	mg/kg	A-T-022s
BTEX - m & p Xylene _A [#]	<0.01	-	-	-	-	-	-	-	mg/kg	A-T-022s
BTEX - o Xylene _A [#]	<0.01	-	-	-	-	-	-	-	mg/kg	A-T-022s
MTBE _A [#]	<0.01	-	-	-	-	-	-	-	mg/kg	A-T-022s

Envirolab Job Number: 18/06521

Client Project Name: Not specified

Client Project Ref: 325144

Lab Sample ID	18/06521/26	18/06521/27	18/06521/28	18/06521/29	18/06521/30				Units	Method ref
Client Sample No										
Client Sample ID	BH110	BH110	BH110	BH110	BH108					
Depth to Top	0.40	0.80	1.20	2.80	4.80					
Depth To Bottom				3.00	5.00					
Date Sampled	06-Aug-18	06-Aug-18	06-Aug-18	07-Aug-18	07-Aug-18					
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES					
Sample Matrix Code	4AE	4AE	4AE	5A	5A					
% Stones >10mm _A	14.0	26.2	30.5	35.2	5.5				% w/w	A-T-044
pH _D ^{M#}	10.73	11.28	-	-	-				pH	A-T-031s
Sulphate (acid soluble) _D ^{M#}	-	2300	-	-	360				mg/kg	A-T-028s
Sulphide _A	-	-	7	-	-				mg/kg	A-T-S2-s
Total Organic Carbon _D ^{M#}	0.74	-	-	-	-				% w/w	A-T-032s
Arsenic _D ^{M#}	9	-	-	-	52				mg/kg	A-T-024s
Cadmium _D ^{M#}	1.4	-	-	-	1.0				mg/kg	A-T-024s
Copper _D ^{M#}	35	-	-	-	116				mg/kg	A-T-024s
Chromium _D ^{M#}	21	-	-	-	21				mg/kg	A-T-024s
Lead _D ^{M#}	176	-	-	-	372				mg/kg	A-T-024s
Mercury _D	0.31	-	-	-	0.25				mg/kg	A-T-024s
Nickel _D ^{M#}	40	-	-	-	31				mg/kg	A-T-024s
Selenium _D [#]	<1	-	-	-	<1				mg/kg	A-T-024s
Zinc _D ^{M#}	230	-	-	-	141				mg/kg	A-T-024s
TPH total (>C6-C40) _A ^{M#}	-	-	-	-	12				mg/kg	A-T-007s

Envirolab Job Number: 18/06521

Client Project Name: Not specified

Client Project Ref: 325144

Lab Sample ID	18/06521/26	18/06521/27	18/06521/28	18/06521/29	18/06521/30				Units	Method ref
Client Sample No										
Client Sample ID	BH110	BH110	BH110	BH110	BH108					
Depth to Top	0.40	0.80	1.20	2.80	4.80					
Depth To Bottom				3.00	5.00					
Date Sampled	06-Aug-18	06-Aug-18	06-Aug-18	07-Aug-18	07-Aug-18					
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES					
Sample Matrix Code	4AE	4AE	4AE	5A	5A					
Asbestos in Soil (inc. matrix)										
Asbestos in soil [#]	NAD	-	-	-	-					A-T-045
Asbestos ACM - Suitable for Water Absorption Test?	N/A	-	-	-	-					

Envirolab Job Number: 18/06521

Client Project Name: Not specified

Client Project Ref: 325144

Lab Sample ID	18/06521/26	18/06521/27	18/06521/28	18/06521/29	18/06521/30				Units	Method ref
Client Sample No										
Client Sample ID	BH110	BH110	BH110	BH110	BH108					
Depth to Top	0.40	0.80	1.20	2.80	4.80					
Depth To Bottom				3.00	5.00					
Date Sampled	06-Aug-18	06-Aug-18	06-Aug-18	07-Aug-18	07-Aug-18					
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES					
Sample Matrix Code	4AE	4AE	4AE	5A	5A					
PAH-16MS										
Acenaphthene _A ^{M#}	-	-	-	<0.01	-				mg/kg	A-T-019s
Acenaphthylene _A ^{M#}	-	-	-	<0.01	-				mg/kg	A-T-019s
Anthracene _A ^{M#}	-	-	-	<0.02	-				mg/kg	A-T-019s
Benzo(a)anthracene _A ^{M#}	-	-	-	<0.04	-				mg/kg	A-T-019s
Benzo(a)pyrene _A ^{M#}	-	-	-	<0.04	-				mg/kg	A-T-019s
Benzo(b)fluoranthene _A ^{M#}	-	-	-	<0.05	-				mg/kg	A-T-019s
Benzo(ghi)perylene _A ^{M#}	-	-	-	<0.05	-				mg/kg	A-T-019s
Benzo(k)fluoranthene _A ^{M#}	-	-	-	<0.07	-				mg/kg	A-T-019s
Chrysene _A ^{M#}	-	-	-	<0.06	-				mg/kg	A-T-019s
Dibenzo(ah)anthracene _A ^{M#}	-	-	-	<0.04	-				mg/kg	A-T-019s
Fluoranthene _A ^{M#}	-	-	-	<0.08	-				mg/kg	A-T-019s
Fluorene _A ^{M#}	-	-	-	<0.01	-				mg/kg	A-T-019s
Indeno(123-cd)pyrene _A ^{M#}	-	-	-	<0.03	-				mg/kg	A-T-019s
Naphthalene _A ^{M#}	-	-	-	<0.03	-				mg/kg	A-T-019s
Phenanthrene _A ^{M#}	-	-	-	<0.03	-				mg/kg	A-T-019s
Pyrene _A ^{M#}	-	-	-	<0.07	-				mg/kg	A-T-019s
Total PAH-16MS _A ^{M#}	-	-	-	<0.08	-				mg/kg	A-T-019s

Envirolab Job Number: 18/06521

Client Project Name: Not specified

Client Project Ref: 325144

Lab Sample ID	18/06521/26	18/06521/27	18/06521/28	18/06521/29	18/06521/30				Units	Method ref
Client Sample No										
Client Sample ID	BH110	BH110	BH110	BH110	BH108					
Depth to Top	0.40	0.80	1.20	2.80	4.80					
Depth To Bottom				3.00	5.00					
Date Sampled	06-Aug-18	06-Aug-18	06-Aug-18	07-Aug-18	07-Aug-18					
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES					
Sample Matrix Code	4AE	4AE	4AE	5A	5A					
SVOC+TICs										
SVOC TICs (Tentatively Identified Compounds) _A	-	None detected	None detected	-	None detected					A-T-052s
Hexachlorobenzene _A	-	<100	<100	-	<100				µg/kg	A-T-052s
Diethyl phthalate _A	-	<100	<100	-	<100				µg/kg	A-T-052s
Dimethyl phthalate _A	-	<100	<100	-	<100				µg/kg	A-T-052s
Dibenzofuran _A	-	<100	<100	-	<100				µg/kg	A-T-052s
Carbazole _A	-	<100	<100	-	<100				µg/kg	A-T-052s
Butylbenzyl phthalate _A	-	<100	<100	-	<100				µg/kg	A-T-052s
Bis(2-ethylhexyl)phthalate _A	-	<500	<500	-	<500				µg/kg	A-T-052s
Bis(2-chloroethoxy)methane _A	-	<100	<100	-	<100				µg/kg	A-T-052s
Bis(2-chloroethyl)ether _A	-	<100	<100	-	<100				µg/kg	A-T-052s
4-Nitrophenol _A	-	<100	<100	-	<100				µg/kg	A-T-052s
4-Methylphenol _A	-	<100	<100	-	<100				µg/kg	A-T-052s
4-Chloro-3-methylphenol _A	-	<100	<100	-	<100				µg/kg	A-T-052s
2-Nitrophenol _A	-	<100	<100	-	<100				µg/kg	A-T-052s
2-Methylphenol _A	-	<100	<100	-	<100				µg/kg	A-T-052s
2-Chlorophenol _A	-	<100	<100	-	<100				µg/kg	A-T-052s
2,6-Dinitrotoluene _A	-	<100	<100	-	<100				µg/kg	A-T-052s
2,4-Dinitrotoluene _A	-	<100	<100	-	<100				µg/kg	A-T-052s
2,4-Dimethylphenol _A	-	<100	<100	-	<100				µg/kg	A-T-052s
2,4-Dichlorophenol _A	-	<100	<100	-	<100				µg/kg	A-T-052s
2,4,6-Trichlorophenol _A	-	<100	<100	-	<100				µg/kg	A-T-052s
2,4,5-Trichlorophenol _A	-	<100	<100	-	<100				µg/kg	A-T-052s
2-Chloronaphthalene _A	-	<100	<100	-	<100				µg/kg	A-T-052s
2-Methylnaphthalene _A	-	<100	<100	-	<100				µg/kg	A-T-052s
Acenaphthylene _A	-	<100	<100	-	<100				µg/kg	A-T-052s
Acenaphthene _A	-	<100	<100	-	<100				µg/kg	A-T-052s
Anthracene _A	-	<100	<100	-	<100				µg/kg	A-T-052s
Benzo(a)anthracene _A	-	<100	<100	-	<100				µg/kg	A-T-052s
Benzo(b)fluoranthene _A	-	<100	<100	-	<100				µg/kg	A-T-052s
Benzo(k)fluoranthene _A	-	<100	<100	-	<100				µg/kg	A-T-052s
Benzo(a)pyrene _A	-	<100	<100	-	<100				µg/kg	A-T-052s
Benzo(ghi)perylene _A	-	<100	<100	-	<100				µg/kg	A-T-052s

Envirolab Job Number: 18/06521

Client Project Name: Not specified

Client Project Ref: 325144

Lab Sample ID	18/06521/26	18/06521/27	18/06521/28	18/06521/29	18/06521/30				Units	Method ref
Client Sample No										
Client Sample ID	BH110	BH110	BH110	BH110	BH108					
Depth to Top	0.40	0.80	1.20	2.80	4.80					
Depth To Bottom				3.00	5.00					
Date Sampled	06-Aug-18	06-Aug-18	06-Aug-18	07-Aug-18	07-Aug-18					
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES					
Sample Matrix Code	4AE	4AE	4AE	5A	5A					
Chrysene _A	-	<100	<100	-	<100				µg/kg	A-T-052s
Fluoranthene _A	-	<100	<100	-	<100				µg/kg	A-T-052s
Fluorene _A	-	<100	<100	-	<100				µg/kg	A-T-052s
Indeno(1,2,3-cd)pyrene _A	-	<100	<100	-	<100				µg/kg	A-T-052s
Phenanthrene _A	-	<100	<100	-	<100				µg/kg	A-T-052s
Pyrene _A	-	<100	<100	-	<100				µg/kg	A-T-052s
Naphthalene _A	-	<100	<100	-	<100				µg/kg	A-T-052s
Dibenzo(ah)anthracene _A	-	<100	<100	-	<100				µg/kg	A-T-052s
Bis(2-chloroisopropyl)ether _A	-	<100	<100	-	<100				µg/kg	A-T-052s
Phenol _A	-	<100	<100	-	<100				µg/kg	A-T-052s
Pentachlorophenol _A	-	<100	<100	-	<100				µg/kg	A-T-052s
n-Nitroso-n-dipropylamine _A	-	<100	<100	-	<100				µg/kg	A-T-052s
n-Dioctylphthalate _A	-	<500	<500	-	<500				µg/kg	A-T-052s
n-Dibutylphthalate _A	-	<100	<100	-	<100				µg/kg	A-T-052s
Nitrobenzene _A	-	<100	<100	-	<100				µg/kg	A-T-052s
Isophorone _A	-	<100	<100	-	<100				µg/kg	A-T-052s
Hexachloroethane _A	-	<100	<100	-	<100				µg/kg	A-T-052s
Hexachlorocyclopentadiene _A	-	<100	<100	-	<100				µg/kg	A-T-052s
Perylene _A	-	<100	<100	-	<100				µg/kg	A-T-052s

Envirolab Job Number: 18/06521

Client Project Name: Not specified

Client Project Ref: 325144

Lab Sample ID	18/06521/26	18/06521/27	18/06521/28	18/06521/29	18/06521/30				Units	Method ref
Client Sample No										
Client Sample ID	BH110	BH110	BH110	BH110	BH108					
Depth to Top	0.40	0.80	1.20	2.80	4.80					
Depth To Bottom				3.00	5.00					
Date Sampled	06-Aug-18	06-Aug-18	06-Aug-18	07-Aug-18	07-Aug-18					
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES					
Sample Matrix Code	4AE	4AE	4AE	5A	5A					
VOC+TICs										
Dichlorodifluoromethane _A	-	<1	<1	-	<1				µg/kg	A-T-006s
Chloromethane _A	-	<10	<10	-	<10				µg/kg	A-T-006s
Vinyl Chloride _A [#]	-	<1	<1	-	<1				µg/kg	A-T-006s
Bromomethane _A [#]	-	<1	<1	-	<1				µg/kg	A-T-006s
Chloroethane _A [#]	-	<1	<1	-	<1				µg/kg	A-T-006s
Trichlorofluoromethane _A [#]	-	<1	<1	-	<1				µg/kg	A-T-006s
1,1-Dichloroethene _A [#]	-	<1	<1	-	<1				µg/kg	A-T-006s
Carbon Disulphide _A [#]	-	<1	<1	-	<1				µg/kg	A-T-006s
Dichloromethane _A	-	<10	<10	-	<10				µg/kg	A-T-006s
trans 1,2-Dichloroethene _A [#]	-	<1	<1	-	<1				µg/kg	A-T-006s
1,1-Dichloroethane _A [#]	-	<1	<1	-	<1				µg/kg	A-T-006s
cis 1,2-Dichloroethene _A [#]	-	<1	<1	-	<1				µg/kg	A-T-006s
2,2-Dichloropropane _A [#]	-	<1	<1	-	<1				µg/kg	A-T-006s
Bromochloromethane _A [#]	-	<5	<5	-	<5				µg/kg	A-T-006s
Chloroform _A [#]	-	<1	<1	-	<1				µg/kg	A-T-006s
1,1,1-Trichloroethane _A [#]	-	<1	<1	-	<1				µg/kg	A-T-006s
1,1-Dichloropropene _A [#]	-	<1	<1	-	<1				µg/kg	A-T-006s
Carbon Tetrachloride _A [#]	-	<1	<1	-	<1				µg/kg	A-T-006s
1,2-Dichloroethane _A [#]	-	<2	<2	-	<2				µg/kg	A-T-006s
Benzene _A [#]	-	<1	<1	-	<1				µg/kg	A-T-006s
Trichloroethene _A [#]	-	<1	<1	-	<1				µg/kg	A-T-006s
1,2-Dichloropropane _A [#]	-	<1	<1	-	<1				µg/kg	A-T-006s
Dibromomethane _A [#]	-	<1	<1	-	<1				µg/kg	A-T-006s
Bromodichloromethane _A [#]	-	<10	<10	-	<10				µg/kg	A-T-006s
cis 1,3-Dichloropropene _A [#]	-	<1	<1	-	<1				µg/kg	A-T-006s
Toluene _A [#]	-	<1	<1	-	<1				µg/kg	A-T-006s
trans 1,3-Dichloropropene _A [#]	-	<1	<1	-	<1				µg/kg	A-T-006s
1,1,2-Trichloroethane _A [#]	-	<1	<1	-	<1				µg/kg	A-T-006s
1,3-Dichloropropane _A [#]	-	<1	<1	-	<1				µg/kg	A-T-006s
Tetrachloroethene _A [#]	-	<1	<1	-	<1				µg/kg	A-T-006s
Dibromochloromethane _A [#]	-	<3	<3	-	<3				µg/kg	A-T-006s
1,2-Dibromoethane _A [#]	-	<1	<1	-	<1				µg/kg	A-T-006s

Envirolab Job Number: 18/06521

Client Project Name: Not specified

Client Project Ref: 325144

Lab Sample ID	18/06521/26	18/06521/27	18/06521/28	18/06521/29	18/06521/30				Units	Method ref
Client Sample No										
Client Sample ID	BH110	BH110	BH110	BH110	BH108					
Depth to Top	0.40	0.80	1.20	2.80	4.80					
Depth To Bottom				3.00	5.00					
Date Sampled	06-Aug-18	06-Aug-18	06-Aug-18	07-Aug-18	07-Aug-18					
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES					
Sample Matrix Code	4AE	4AE	4AE	5A	5A					
Chlorobenzene _A [#]	-	<1	<1	-	<1				µg/kg	A-T-006s
1,1,1,2-Tetrachloroethane _A	-	<1	<1	-	<1				µg/kg	A-T-006s
Ethylbenzene _A [#]	-	<1	<1	-	<1				µg/kg	A-T-006s
m & p Xylene _A [#]	-	<1	<1	-	<1				µg/kg	A-T-006s
o-Xylene _A [#]	-	<1	<1	-	<1				µg/kg	A-T-006s
Styrene _A [#]	-	<1	<1	-	<1				µg/kg	A-T-006s
Bromoform _A [#]	-	<1	<1	-	<1				µg/kg	A-T-006s
Isopropylbenzene _A [#]	-	<1	<1	-	<1				µg/kg	A-T-006s
1,1,2,2-Tetrachloroethane _A	-	<1	<1	-	<1				µg/kg	A-T-006s
1,2,3-Trichloropropane _A [#]	-	<1	<1	-	<1				µg/kg	A-T-006s
Bromobenzene _A [#]	-	<1	<1	-	<1				µg/kg	A-T-006s
n-Propylbenzene _A [#]	-	<1	<1	-	<1				µg/kg	A-T-006s
2-Chlorotoluene _A [#]	-	<1	<1	-	<1				µg/kg	A-T-006s
1,3,5-Trimethylbenzene _A [#]	-	<1	<1	-	<1				µg/kg	A-T-006s
4-Chlorotoluene _A [#]	-	<1	<1	-	<1				µg/kg	A-T-006s
tert-Butylbenzene _A [#]	-	<2	<2	-	<2				µg/kg	A-T-006s
1,2,4-Trimethylbenzene _A [#]	-	<1	<1	-	<1				µg/kg	A-T-006s
sec-Butylbenzene _A [#]	-	<1	<1	-	<1				µg/kg	A-T-006s
4-Isopropyltoluene _A [#]	-	<1	<1	-	<1				µg/kg	A-T-006s
1,3-Dichlorobenzene _A	-	<1	<1	-	<1				µg/kg	A-T-006s
1,4-Dichlorobenzene _A [#]	-	<1	<1	-	<1				µg/kg	A-T-006s
n-Butylbenzene _A [#]	-	<1	<1	-	<1				µg/kg	A-T-006s
1,2-Dichlorobenzene _A [#]	-	<1	<1	-	<1				µg/kg	A-T-006s
1,2-Dibromo-3-chloropropane _A	-	<2	<2	-	<2				µg/kg	A-T-006s
1,2,4-Trichlorobenzene _A	-	<3	<3	-	<3				µg/kg	A-T-006s
Hexachlorobutadiene _A [#]	-	<1	<1	-	<1				µg/kg	A-T-006s
1,2,3-Trichlorobenzene _A	-	<3	<3	-	<3				µg/kg	A-T-006s
VOC TICs _A	-	Appended	None detected	-	None detected					A-T-006s

Envirolab Job Number: 18/06521

Client Project Name: Not specified

Client Project Ref: 325144

Lab Sample ID	18/06521/26	18/06521/27	18/06521/28	18/06521/29	18/06521/30				Units	Method ref
Client Sample No										
Client Sample ID	BH110	BH110	BH110	BH110	BH108					
Depth to Top	0.40	0.80	1.20	2.80	4.80					
Depth To Bottom				3.00	5.00					
Date Sampled	06-Aug-18	06-Aug-18	06-Aug-18	07-Aug-18	07-Aug-18					
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES					
Sample Matrix Code	4AE	4AE	4AE	5A	5A					
TPH CWG										
Ali >C5-C6 _A [#]	-	<0.01	-	-	-				mg/kg	A-T-022s
Ali >C6-C8 _A [#]	-	<0.01	-	-	-				mg/kg	A-T-022s
Ali >C8-C10 _A ^{M#}	-	<1	-	-	-				mg/kg	A-T-055s
Ali >C10-C12 _A ^{M#}	-	<1	-	-	-				mg/kg	A-T-055s
Ali >C12-C16 _A ^{M#}	-	3	-	-	-				mg/kg	A-T-055s
Ali >C16-C21 _A ^{M#}	-	7	-	-	-				mg/kg	A-T-055s
Ali >C21-C35 _A	-	52	-	-	-				mg/kg	A-T-055s
Total Aliphatics >C5-C35 _A	-	63	-	-	-				mg/kg	A-T-055s
Aro >C5-C7 _A [#]	-	<0.01	-	-	-				mg/kg	A-T-022s
Aro >C7-C8 _A [#]	-	<0.01	-	-	-				mg/kg	A-T-022s
Aro >C8-C10 _A ^{M#}	-	6	-	-	-				mg/kg	A-T-055s
Aro >C10-C12 _A ^{M#}	-	<1	-	-	-				mg/kg	A-T-055s
Aro >C12-C16 _A	-	2	-	-	-				mg/kg	A-T-055s
Aro >C16-C21 _A ^{M#}	-	4	-	-	-				mg/kg	A-T-055s
Aro >C21-C35 _A ^{M#}	-	30	-	-	-				mg/kg	A-T-055s
Total Aromatics >C5-C35 _A	-	43	-	-	-				mg/kg	A-T-055s
TPH (Ali & Aro >C5-C35) _A	-	105	-	-	-				mg/kg	A-T-055s
BTEX - Benzene _A [#]	-	<0.01	-	-	-				mg/kg	A-T-022s
BTEX - Toluene _A [#]	-	<0.01	-	-	-				mg/kg	A-T-022s
BTEX - Ethyl Benzene _A [#]	-	<0.01	-	-	-				mg/kg	A-T-022s
BTEX - m & p Xylene _A [#]	-	<0.01	-	-	-				mg/kg	A-T-022s
BTEX - o Xylene _A [#]	-	<0.01	-	-	-				mg/kg	A-T-022s
MTBE _A [#]	-	<0.01	-	-	-				mg/kg	A-T-022s

REPORT NOTES

General:

This report shall not be reproduced, except in full, without written approval from Envirolab.

All samples contained within this report, and any received with the same delivery, will be disposed of one month after the date of this report.

Analytical results reflect the quality of the sample at the time of analysis only.

Opinions and interpretations expressed are outside the scope of our accreditation.

If results are in italic font they are associated with an AQC failure and there is insufficient sample to repeat the analysis. These are not accredited and are unreliable.

A deviating samples report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.

Soil chemical analysis:

All results are reported as dry weight (<40°C).

For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as '% stones >10mm'.

For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any "A" subscripts

All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any "D" subscripts.

TPH analysis of water by method A-T-007:

Free and visible oils are excluded from the sample used for analysis so that the reported result represents the dissolved phase only.

Electrical Conductivity of water by Method A-T-037:

Results greater than 12900µS/cm @ 25°C / 11550µS/cm @ 20°C fall outside the calibration range and as such are unaccredited.

Asbestos:

Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.

Stones etc. are not removed from the sample prior to analysis.

Quantification of asbestos is a 3 stage process including visual identification, hand picking and weighing and fibre counting by sedimentation/phase contrast optical microscopy if required. If asbestos is identified as being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres) quantification by sedimentation is performed. Where ACMs are found a percentage asbestos is assigned to each with reference to 'HSG264, Asbestos: The survey guide' and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used.

Predominant Matrix Codes:

1 = SAND, 2 = LOAM, 3 = CLAY, 4 = LOAM/SAND, 5 = SAND/CLAY, 6 = CLAY/LOAM, 7 = OTHER, 8 = Asbestos bulk ID sample.

Samples with Matrix Code 7 & 8 are not predominantly a SAND/LOAM/CLAY mix and are not covered by our BSEN 17025 or MCERTS accreditations, with the exception of bulk asbestos which are BSEN 17025 accredited.

Secondary Matrix Codes:

A = contains stones, B = contains construction rubble, C = contains visible hydrocarbons, D = contains glass/metal,

E = contains roots/twigs.

Key:

IS indicates Insufficient Sample for analysis.

US indicates Unsuitable Sample for analysis.

NDP indicates No Determination Possible.

NAD indicates No Asbestos Detected.

N/A indicates Not Applicable.

Superscript # indicates method accredited to ISO 17025.

Superscript "M" indicates method accredited to MCERTS.

Subscript "A" indicates analysis performed on the sample as received.

Subscript "D" indicates analysis performed on the dried sample, crushed to pass a 2mm sieve

Please contact us if you need any further information.

VOC Tentatively Identified Compounds*(Note: TIC Results are reported on an as received basis and are not moisture corrected).***Appendix to Envirolab Report:**

Lab Client Sample ID	18/06521/14		
Client Sample ID	BH106		
Depth to top	0.40m		
Depth to bottom	0.60m		
Top 10	Compound	CAS number	Estimated Concentration µg/kg
1	Hexadecane	544-76-3	232.24
2			
3			
4			
5			
6			
7			
8			
9			
10			

Lab Client Sample ID	18/06521/15		
Client Sample ID	BH106		
Depth to top	0.80m		
Depth to bottom	0.90m		
Top 10	Compound	CAS number	Estimated Concentration µg/kg
1	2,6,10-Trimethyl Dodecane	3891-98-3	878.79
2			
3			
4			
5			
6			
7			
8			
9			
10			

Lab Client Sample ID	18/06521/17		
Client Sample ID	BH106a		
Depth to top	2.30m		
Depth to bottom	2.50m		
Top 10	Compound	CAS number	Estimated Concentration µg/kg
1	2,6,10-Trimethyl Pentadecane	3892-00-0	94.3
2			
3			
4			
5			
6			
7			
8			
9			
10			

Lab Client Sample ID	18/06521/27		
Client Sample ID	BH110		
Depth to top	0.80m		
Depth to bottom			
Top 10	Compound	CAS number	Estimated Concentration µg/kg
1	2,6,11,15-Tetramethyl Hexadecane	504-44-9	51.57
2			
3			
4			
5			
6			
7			
8			
9			
10			

SVOC Tentatively Identified Compounds

(Note: TIC Results are reported on an as received basis and are not moisture corrected).

**Appendix to Envirolab Report:**

Lab Client Sample ID	18/06521/14		
Client Sample ID	BH106		
Depth to top	0.40 m		
Depth to bottom	0.60 m		
Top 10	Compound	CAS number	Estimated Concentration µg/kg
1	Tricosane	638-67-5	1972
2	Octacosane	630-02-4	1472



APPENDIX E

LABORATORY CERTIFICATES FOR GROUNDWATER ANALYSIS

FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 18/06654
Issue Number: 1
Date: 31 August, 2018

Client: RSK Environment Helsby
Spring Lodge
172 Chester Road
Helsby
Cheshire
UK
WA6 0AR

Project Manager: Alex Cox
Project Name: Coleshill Mill, Flint
Project Ref: 325144
Order No: N/A
Date Samples Received: 20/08/18
Date Instructions Received: 21/08/18
Date Analysis Completed: 30/08/18

Prepared by:



Melanie Marshall
Laboratory Coordinator

Approved by:



Richard Wong
Client Manager

Envirolab Job Number: 18/06654

Client Project Name: Coleshill Mill, Flint

Client Project Ref: 325144

Lab Sample ID	18/06654/1	18/06654/2	18/06654/3	18/06654/4	18/06654/5	18/06654/6	18/06654/7	18/06654/8	Units	Method ref
Client Sample No										
Client Sample ID	BH105	BH104	BH103	BH106A	BH106	BH110	BH107	BH109		
Depth to Top	2.00	2.50	1.20			3.75	1.70	2.00		
Depth To Bottom										
Date Sampled	17-Aug-18	17-Aug-18	17-Aug-18	17-Aug-18	17-Aug-18	17-Aug-18	17-Aug-18	17-Aug-18		
Sample Type	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW		
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
pH (w) _A [#]	7.90	7.84	8.30	8.02	8.22	11.70	8.13	8.04	pH	A-T-031w
Electrical conductivity @ 20degC (w) _A [#]	811	846	690	730	876	6530	797	800	µs/cm	A-T-037w
Hardness Total _A [#]	411	408	343	341	257	1390	394	350	mg/l Ca CO ₃	A-T-049w
Ammoniacal nitrogen (w) _A [#]	0.04	0.05	0.29	0.03	0.10	10.8	0.04	<0.02	mg/l	A-T-033w
Chloride (w) _A [#]	60	76	36	67	122	32	61	59	mg/l	A-T-026w
Sulphate (w) _A [#]	88	82	42	52	81	<1	53	111	mg/l	A-T-026w
Sulphide (w) _A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/l	A-T-S2-w
Arsenic (dissolved) _A [#]	<1	<1	20	<1	2	1	1	<1	µg/l	A-T-025w
Boron (dissolved) _A [#]	96	70	46	93	78	<10	50	61	µg/l	A-T-025w
Cadmium (dissolved) _A [#]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	µg/l	A-T-025w
Copper (dissolved) _A [#]	6	6	6	7	6	77	6	7	µg/l	A-T-025w
Chromium (dissolved) _A [#]	<1	9	<1	10	10	8	13	7	µg/l	A-T-025w
Chromium (hexavalent) (w) _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/l	A-T-040w
Lead (dissolved) _A [#]	<1	<1	<1	<1	<1	14	<1	<1	µg/l	A-T-025w
Mercury (dissolved) _A [#]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	µg/l	A-T-025w
Nickel (dissolved) _A [#]	2	1	2	<1	2	50	<1	2	µg/l	A-T-025w
Selenium (dissolved) _A [#]	2	2	<1	<1	<1	<1	1	2	µg/l	A-T-025w
Zinc (dissolved) _A [#]	1	2	<1	<1	2	5	3	4	µg/l	A-T-025w

Envirolab Job Number: 18/06654

Client Project Name: Coleshill Mill, Flint

Client Project Ref: 325144

Lab Sample ID	18/06654/1	18/06654/2	18/06654/3	18/06654/4	18/06654/5	18/06654/6	18/06654/7	18/06654/8	Units	Method ref
Client Sample No										
Client Sample ID	BH105	BH104	BH103	BH106A	BH106	BH110	BH107	BH109		
Depth to Top	2.00	2.50	1.20			3.75	1.70	2.00		
Depth To Bottom										
Date Sampled	17-Aug-18	17-Aug-18	17-Aug-18	17-Aug-18	17-Aug-18	17-Aug-18	17-Aug-18	17-Aug-18		
Sample Type	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW		
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
SVOC+TICs (w)										
SVOC TICs (Tentatively Identified Compounds) _A	None detected	None detected	None detected	None detected	None detected	Appended	None detected	None detected		A-T-052w
2,4,5-Trichlorophenol _A	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	A-T-052w
2,4,6-Trichlorophenol _A	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	A-T-052w
2,4-Dichlorophenol _A	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	A-T-052w
2,4-Dimethylphenol _A	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	A-T-052w
2,4-Dinitrotoluene _A	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	A-T-052w
2,6-Dinitrotoluene _A	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	A-T-052w
2-Chloronaphthalene _A	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	A-T-052w
2-Chlorophenol _A	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	A-T-052w
2-Methylnaphthalene _A	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	A-T-052w
2-Methylphenol _A	<1	<1	<1	<1	<1	2	<1	<1	µg/l	A-T-052w
2-Nitrophenol _A	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	A-T-052w
4-Bromophenyl phenyl ether _A	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	A-T-052w
4-Chloro-3-methylphenol _A	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	A-T-052w
Bis(2-chloroisopropyl)ether _A	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	A-T-052w
4-Methylphenol _A	<1	<1	<1	<1	<1	2	<1	<1	µg/l	A-T-052w
4-Nitrophenol _A	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	A-T-052w
Acenaphthene _A	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	A-T-052w
Acenaphthylene _A	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	A-T-052w
Anthracene _A	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	A-T-052w
Bis(2-chloroethyl)ether _A	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	A-T-052w
Bis(2-chloroethoxy)methane _A	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	A-T-052w
Bis(2-ethylhexyl)phthalate _A	<10	<10	<10	<10	<10	<10	<10	<10	µg/l	A-T-052w
Benzo(a)anthracene _A	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	A-T-052w
Butylbenzyl phthalate _A	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	A-T-052w
Benzo(b)fluoranthene _A	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	A-T-052w
Benzo(k)fluoranthene _A	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	A-T-052w
Benzo(a)pyrene _A	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	A-T-052w
Benzo(ghi)perylene _A	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	A-T-052w
Carbazole _A	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	A-T-052w
Chrysene _A	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	A-T-052w
Dibenzofuran _A	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	A-T-052w

Envirolab Job Number: 18/06654

Client Project Name: Coleshill Mill, Flint

Client Project Ref: 325144

Lab Sample ID	18/06654/1	18/06654/2	18/06654/3	18/06654/4	18/06654/5	18/06654/6	18/06654/7	18/06654/8	Units	Method ref
Client Sample No										
Client Sample ID	BH105	BH104	BH103	BH106A	BH106	BH110	BH107	BH109		
Depth to Top	2.00	2.50	1.20			3.75	1.70	2.00		
Depth To Bottom										
Date Sampled	17-Aug-18	17-Aug-18	17-Aug-18	17-Aug-18	17-Aug-18	17-Aug-18	17-Aug-18	17-Aug-18		
Sample Type	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW		
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
n-Dibutylphthalate _A	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	A-T-052w
n-Dioctylphthalate _A	<10	<10	<10	<10	<10	<10	<10	<10	µg/l	A-T-052w
n-Nitroso-n-dipropylamine _A	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	A-T-052w
Diethyl phthalate _A	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	A-T-052w
Dimethyl phthalate _A	<1	<1	<1	<1	2	<1	<1	<1	µg/l	A-T-052w
Dibenzo(ah)anthracene _A	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	A-T-052w
Fluorene _A	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	A-T-052w
Fluoranthene _A	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	A-T-052w
Hexachlorobenzene _A	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	A-T-052w
Pentachlorophenol _A	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	A-T-052w
Phenol _A	<1	<1	<1	<1	<1	22	<1	<1	µg/l	A-T-052w
Hexachloroethane _A	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	A-T-052w
Nitrobenzene _A	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	A-T-052w
Naphthalene _A	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	A-T-052w
Isophorone _A	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	A-T-052w
Hexachlorocyclopentadiene _A	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	A-T-052w
Phenanthrene _A	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	A-T-052w
Pyrene _A	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	A-T-052w
Indeno(1,2,3-cd)pyrene _A	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	A-T-052w
Perylene _A	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	A-T-052w

Envirolab Job Number: 18/06654

Client Project Name: Coleshill Mill, Flint

Client Project Ref: 325144

Lab Sample ID	18/06654/1	18/06654/2	18/06654/3	18/06654/4	18/06654/5	18/06654/6	18/06654/7	18/06654/8	Units	Method ref
Client Sample No										
Client Sample ID	BH105	BH104	BH103	BH106A	BH106	BH110	BH107	BH109		
Depth to Top	2.00	2.50	1.20			3.75	1.70	2.00		
Depth To Bottom										
Date Sampled	17-Aug-18	17-Aug-18	17-Aug-18	17-Aug-18	17-Aug-18	17-Aug-18	17-Aug-18	17-Aug-18		
Sample Type	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW		
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
VOC+TICs (w)										
Dichlorodifluoromethane _A	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	A-T-006w
Chloromethane _A	<10	<10	<10	<10	<10	<10	<10	<10	µg/l	A-T-006w
Vinyl Chloride _A [#]	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	A-T-006w
Bromomethane _A [#]	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	A-T-006w
Chloroethane _A [#]	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	A-T-006w
Trichlorofluoromethane _A [#]	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	A-T-006w
trans 1,2-Dichloroethene _A [#]	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	A-T-006w
Dichloromethane _A	<5	<5	<5	<5	<5	<5	<5	<5	µg/l	A-T-006w
Carbon Disulphide _A [#]	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	A-T-006w
1,1-Dichloroethene _A [#]	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	A-T-006w
1,1-Dichloroethane _A [#]	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	A-T-006w
cis 1,2-Dichloroethene _A [#]	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	A-T-006w
Bromochloromethane _A [#]	<5	<5	<5	<5	<5	<5	<5	<5	µg/l	A-T-006w
Chloroform _A [#]	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	A-T-006w
2,2-Dichloropropane _A [#]	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	A-T-006w
1,2-Dichloroethane _A [#]	<2	<2	<2	<2	<2	<2	<2	<2	µg/l	A-T-006w
1,1,1-Trichloroethane _A [#]	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	A-T-006w
1,1-Dichloropropene _A [#]	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	A-T-006w
Benzene _A [#]	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	A-T-006w
Carbon Tetrachloride _A [#]	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	A-T-006w
Dibromomethane _A [#]	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	A-T-006w
1,2-Dichloropropane _A [#]	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	A-T-006w
Bromodichloromethane _A [#]	<10	<10	<10	<10	<10	<10	<10	<10	µg/l	A-T-006w
Trichloroethene _A [#]	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	A-T-006w
cis 1,3-Dichloropropene _A [#]	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	A-T-006w
trans 1,3-Dichloropropene _A [#]	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	A-T-006w
1,1,2-Trichloroethane _A [#]	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	A-T-006w
Toluene _A [#]	<1	<1	<1	<1	<1	6	<1	<1	µg/l	A-T-006w
1,3-Dichloropropane _A [#]	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	A-T-006w
Dibromochloromethane _A [#]	<3	<3	<3	<3	<3	<3	<3	<3	µg/l	A-T-006w
1,2-Dibromoethane _A [#]	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	A-T-006w
Tetrachloroethene _A	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	A-T-006w

Envirolab Job Number: 18/06654

Client Project Name: Coleshill Mill, Flint

Client Project Ref: 325144

Lab Sample ID	18/06654/1	18/06654/2	18/06654/3	18/06654/4	18/06654/5	18/06654/6	18/06654/7	18/06654/8	Units	Method ref
Client Sample No										
Client Sample ID	BH105	BH104	BH103	BH106A	BH106	BH110	BH107	BH109		
Depth to Top	2.00	2.50	1.20			3.75	1.70	2.00		
Depth To Bottom										
Date Sampled	17-Aug-18	17-Aug-18	17-Aug-18	17-Aug-18	17-Aug-18	17-Aug-18	17-Aug-18	17-Aug-18		
Sample Type	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW		
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
1,1,1,2-Tetrachloroethane _A	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	A-T-006w
Chlorobenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	A-T-006w
Ethylbenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	A-T-006w
m & p Xylene _A [#]	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	A-T-006w
Bromoform _A [#]	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	A-T-006w
Styrene _A [#]	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	A-T-006w
1,1,2,2-Tetrachloroethane _A	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	A-T-006w
o-Xylene _A [#]	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	A-T-006w
1,2,3-Trichloropropane _A [#]	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	A-T-006w
Isopropylbenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	A-T-006w
Bromobenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	A-T-006w
2-Chlorotoluene _A [#]	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	A-T-006w
n-propylbenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	A-T-006w
4-Chlorotoluene _A [#]	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	A-T-006w
1,2,4-Trimethylbenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	A-T-006w
4-Isopropyltoluene _A [#]	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	A-T-006w
1,3,5-Trimethylbenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	A-T-006w
1,2-Dichlorobenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	A-T-006w
1,4-Dichlorobenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	A-T-006w
sec-Butylbenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	A-T-006w
tert-Butylbenzene _A [#]	<2	<2	<2	<2	<2	<2	<2	<2	µg/l	A-T-006w
1,3-Dichlorobenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	A-T-006w
n-butylbenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	A-T-006w
1,2-Dibromo-3-chloropropane _A [#]	<2	<2	<2	<2	<2	<2	<2	<2	µg/l	A-T-006w
1,2,4-Trichlorobenzene _A [#]	<3	<3	<3	<3	<3	<3	<3	<3	µg/l	A-T-006w
1,2,3-Trichlorobenzene _A [#]	<3	<3	<3	<3	<3	<3	<3	<3	µg/l	A-T-006w
Hexachlorobutadiene _A [#]	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	A-T-006w
VOC TICs (Tentatively Identified Compounds) (w) _A	None detected	None detected	None detected	None detected	None detected	None detected	None detected	None detected		A-T-006w

Envirolab Job Number: 18/06654

Client Project Name: Coleshill Mill, Flint

Client Project Ref: 325144

Lab Sample ID	18/06654/1	18/06654/2	18/06654/3	18/06654/4	18/06654/5	18/06654/6	18/06654/7	18/06654/8	Units	Method ref
Client Sample No										
Client Sample ID	BH105	BH104	BH103	BH106A	BH106	BH110	BH107	BH109		
Depth to Top	2.00	2.50	1.20			3.75	1.70	2.00		
Depth To Bottom										
Date Sampled	17-Aug-18	17-Aug-18	17-Aug-18	17-Aug-18	17-Aug-18	17-Aug-18	17-Aug-18	17-Aug-18		
Sample Type	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW		
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
TPH CWG (w)										
Ali >C5-C6 (w) _A [#]	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	A-T-022w
Ali >C6-C8 (w) _A [#]	<1	<1	<1	<1	<1	2	<1	<1	µg/l	A-T-022w
Ali >C8-C10 (w) _A [#]	<5	<5	<5	<5	<5	<5	<5	<5	µg/l	A-T-055w
Ali >C10-C12 (w) _A [#]	<5	<5	<5	<5	11	54	<5	<5	µg/l	A-T-055w
Ali >C12-C16 (w) _A [#]	<5	<5	<5	<5	93	11	<5	<5	µg/l	A-T-055w
Ali >C16-C21 (w) _A [#]	<5	<5	<5	<5	111	<5	<5	<5	µg/l	A-T-055w
Ali >C21-C35 (w) _A [#]	<5	<5	<5	<5	8	<5	<5	<5	µg/l	A-T-055w
Total Aliphatics >C5-C35 (w) _A [#]	<5	<5	<5	<5	224	68	<5	<5	µg/l	A-T-055w
Aro >C5-C7 (w) _A [#]	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	A-T-022w
Aro >C7-C8 (w) _A [#]	<1	<1	<1	<1	<1	9	<1	<1	µg/l	A-T-022w
Aro >C8-C10 (w) _A	<5	<5	<5	<5	7	25	<5	<5	µg/l	A-T-055w
Aro >C10-C12 (w) _A [#]	<5	<5	<5	<5	61	169	<5	<5	µg/l	A-T-055w
Aro >C12-C16 (w) _A [#]	<5	<5	<5	<5	111	43	<5	<5	µg/l	A-T-055w
Aro >C16-C21 (w) _A [#]	<5	<5	<5	<5	109	33	<5	13	µg/l	A-T-055w
Aro >C21-C35 (w) _A [#]	<10	<10	<10	<10	40	<10	<10	<10	µg/l	A-T-055w
Total Aromatics >C5-C35 (w) _A	<10	<10	<10	<10	327	279	<10	13	µg/l	A-T-055w
TPH (Ali & Aro >C5-C35) (w) _A	<10	<10	<10	<10	551	347	<10	13	µg/l	A-T-055w
BTEX - Benzene (w) _A [#]	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	A-T-022w
BTEX - Toluene (w) _A [#]	<1	<1	<1	<1	<1	9	<1	<1	µg/l	A-T-022w
BTEX - Ethyl Benzene (w) _A [#]	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	A-T-022w
BTEX - m & p Xylene (w) _A [#]	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	A-T-022w
BTEX - o Xylene (w) _A [#]	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	A-T-022w
MTBE (w) _A [#]	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	A-T-022w

Envirolab Job Number: 18/06654

Client Project Name: Coleshill Mill, Flint

Client Project Ref: 325144

Lab Sample ID	18/06654/9	18/06654/10							Units	Method ref
Client Sample No										
Client Sample ID	BH108	BH101								
Depth to Top	5.00	1.00								
Depth To Bottom										
Date Sampled	17-Aug-18	17-Aug-18								
Sample Type	Water - EW	Water - EW								
Sample Matrix Code	N/A	N/A								
pH (w) _A [#]	7.98	7.99							pH	A-T-031w
Electrical conductivity @ 20degC (w) _A [#]	826	778							µs/cm	A-T-037w
Hardness Total _A [#]	413	218							mg/l Ca CO3	A-T-049w
Ammoniacal nitrogen (w) _A [#]	0.05	0.12							mg/l	A-T-033w
Chloride (w) _A [#]	46	112							mg/l	A-T-026w
Sulphate (w) _A [#]	139	153							mg/l	A-T-026w
Sulphide (w) _A	<0.1	<0.1							mg/l	A-T-S2-w
Arsenic (dissolved) _A [#]	1	3							µg/l	A-T-025w
Boron (dissolved) _A [#]	54	59							µg/l	A-T-025w
Cadmium (dissolved) _A [#]	<0.2	<0.2							µg/l	A-T-025w
Copper (dissolved) _A [#]	6	10							µg/l	A-T-025w
Chromium (dissolved) _A [#]	<1	31							µg/l	A-T-025w
Chromium (hexavalent) (w) _A [#]	<0.01	<0.01							mg/l	A-T-040w
Lead (dissolved) _A [#]	<1	<1							µg/l	A-T-025w
Mercury (dissolved) _A [#]	<0.1	<0.1							µg/l	A-T-025w
Nickel (dissolved) _A [#]	5	2							µg/l	A-T-025w
Selenium (dissolved) _A [#]	<1	17							µg/l	A-T-025w
Zinc (dissolved) _A [#]	5	2							µg/l	A-T-025w

Envirolab Job Number: 18/06654

Client Project Name: Coleshill Mill, Flint

Client Project Ref: 325144

Lab Sample ID	18/06654/9	18/06654/10							Units	Method ref
Client Sample No										
Client Sample ID	BH108	BH101								
Depth to Top	5.00	1.00								
Depth To Bottom										
Date Sampled	17-Aug-18	17-Aug-18								
Sample Type	Water - EW	Water - EW								
Sample Matrix Code	N/A	N/A								
SVOC+TICs (w)										
SVOC TICs (Tentatively Identified Compounds) _A	None detected	Appended								A-T-052w
2,4,5-Trichlorophenol _A	<1	<1							µg/l	A-T-052w
2,4,6-Trichlorophenol _A	<1	<1							µg/l	A-T-052w
2,4-Dichlorophenol _A	<1	<1							µg/l	A-T-052w
2,4-Dimethylphenol _A	<1	<1							µg/l	A-T-052w
2,4-Dinitrotoluene _A	<1	<1							µg/l	A-T-052w
2,6-Dinitrotoluene _A	<1	<1							µg/l	A-T-052w
2-Chloronaphthalene _A	<1	<1							µg/l	A-T-052w
2-Chlorophenol _A	<1	<1							µg/l	A-T-052w
2-Methylnaphthalene _A	<1	<1							µg/l	A-T-052w
2-Methylphenol _A	<1	<1							µg/l	A-T-052w
2-Nitrophenol _A	<1	<1							µg/l	A-T-052w
4-Bromophenyl phenyl ether _A	<1	<1							µg/l	A-T-052w
4-Chloro-3-methylphenol _A	<1	<1							µg/l	A-T-052w
Bis(2-chloroisopropyl)ether _A	<1	<1							µg/l	A-T-052w
4-Methylphenol _A	<1	<1							µg/l	A-T-052w
4-Nitrophenol _A	<1	<1							µg/l	A-T-052w
Acenaphthene _A	<1	<1							µg/l	A-T-052w
Acenaphthylene _A	<1	<1							µg/l	A-T-052w
Anthracene _A	<1	<1							µg/l	A-T-052w
Bis(2-chloroethyl)ether _A	<1	<1							µg/l	A-T-052w
Bis(2-chloroethoxy)methane _A	<1	<1							µg/l	A-T-052w
Bis(2-ethylhexyl)phthalate _A	<10	<10							µg/l	A-T-052w
Benzo(a)anthracene _A	<1	<1							µg/l	A-T-052w
Butylbenzyl phthalate _A	<1	<1							µg/l	A-T-052w
Benzo(b)fluoranthene _A	<1	<1							µg/l	A-T-052w
Benzo(k)fluoranthene _A	<1	<1							µg/l	A-T-052w
Benzo(a)pyrene _A	<1	<1							µg/l	A-T-052w
Benzo(ghi)perylene _A	<1	<1							µg/l	A-T-052w
Carbazole _A	<1	<1							µg/l	A-T-052w
Chrysene _A	<1	<1							µg/l	A-T-052w
Dibenzofuran _A	<1	<1							µg/l	A-T-052w

Envirolab Job Number: 18/06654

Client Project Name: Coleshill Mill, Flint

Client Project Ref: 325144

Lab Sample ID	18/06654/9	18/06654/10							Units	Method ref
Client Sample No										
Client Sample ID	BH108	BH101								
Depth to Top	5.00	1.00								
Depth To Bottom										
Date Sampled	17-Aug-18	17-Aug-18								
Sample Type	Water - EW	Water - EW								
Sample Matrix Code	N/A	N/A								
n-Dibutylphthalate _A	<1	1							µg/l	A-T-052w
n-Dioctylphthalate _A	<10	<10							µg/l	A-T-052w
n-Nitroso-n-dipropylamine _A	<1	<1							µg/l	A-T-052w
Diethyl phthalate _A	<1	<1							µg/l	A-T-052w
Dimethyl phthalate _A	<1	<1							µg/l	A-T-052w
Dibenzo(ah)anthracene _A	<1	<1							µg/l	A-T-052w
Fluorene _A	<1	<1							µg/l	A-T-052w
Fluoranthene _A	<1	<1							µg/l	A-T-052w
Hexachlorobenzene _A	<1	<1							µg/l	A-T-052w
Pentachlorophenol _A	<1	<1							µg/l	A-T-052w
Phenol _A	<1	<1							µg/l	A-T-052w
Hexachloroethane _A	<1	<1							µg/l	A-T-052w
Nitrobenzene _A	<1	<1							µg/l	A-T-052w
Naphthalene _A	<1	<1							µg/l	A-T-052w
Isophorone _A	<1	<1							µg/l	A-T-052w
Hexachlorocyclopentadiene _A	<1	<1							µg/l	A-T-052w
Phenanthrene _A	<1	<1							µg/l	A-T-052w
Pyrene _A	<1	<1							µg/l	A-T-052w
Indeno(1,2,3-cd)pyrene _A	<1	<1							µg/l	A-T-052w
Perylene _A	<1	<1							µg/l	A-T-052w

Envirolab Job Number: 18/06654

Client Project Name: Coleshill Mill, Flint

Client Project Ref: 325144

Lab Sample ID	18/06654/9	18/06654/10							Units	Method ref
Client Sample No										
Client Sample ID	BH108	BH101								
Depth to Top	5.00	1.00								
Depth To Bottom										
Date Sampled	17-Aug-18	17-Aug-18								
Sample Type	Water - EW	Water - EW								
Sample Matrix Code	N/A	N/A								
VOC+TICs (w)										
Dichlorodifluoromethane _A	<1	<1							µg/l	A-T-006w
Chloromethane _A	<10	<10							µg/l	A-T-006w
Vinyl Chloride _A [#]	<1	<1							µg/l	A-T-006w
Bromomethane _A [#]	<1	<1							µg/l	A-T-006w
Chloroethane _A [#]	<1	<1							µg/l	A-T-006w
Trichlorofluoromethane _A [#]	<1	<1							µg/l	A-T-006w
trans 1,2-Dichloroethene _A [#]	<1	<1							µg/l	A-T-006w
Dichloromethane _A	<5	<5							µg/l	A-T-006w
Carbon Disulphide _A [#]	<1	<1							µg/l	A-T-006w
1,1-Dichloroethene _A [#]	<1	<1							µg/l	A-T-006w
1,1-Dichloroethane _A [#]	<1	<1							µg/l	A-T-006w
cis 1,2-Dichloroethene _A [#]	<1	<1							µg/l	A-T-006w
Bromochloromethane _A [#]	<5	<5							µg/l	A-T-006w
Chloroform _A [#]	<1	<1							µg/l	A-T-006w
2,2-Dichloropropane _A [#]	<1	<1							µg/l	A-T-006w
1,2-Dichloroethane _A [#]	<2	<2							µg/l	A-T-006w
1,1,1-Trichloroethane _A [#]	<1	<1							µg/l	A-T-006w
1,1-Dichloropropene _A [#]	<1	<1							µg/l	A-T-006w
Benzene _A [#]	<1	<1							µg/l	A-T-006w
Carbon Tetrachloride _A [#]	<1	<1							µg/l	A-T-006w
Dibromomethane _A [#]	<1	<1							µg/l	A-T-006w
1,2-Dichloropropane _A [#]	<1	<1							µg/l	A-T-006w
Bromodichloromethane _A [#]	<10	<10							µg/l	A-T-006w
Trichloroethene _A [#]	<1	<1							µg/l	A-T-006w
cis 1,3-Dichloropropene _A [#]	<1	<1							µg/l	A-T-006w
trans 1,3-Dichloropropene _A [#]	<1	<1							µg/l	A-T-006w
1,1,2-Trichloroethane _A [#]	<1	<1							µg/l	A-T-006w
Toluene _A [#]	<1	<1							µg/l	A-T-006w
1,3-Dichloropropane _A [#]	<1	<1							µg/l	A-T-006w
Dibromochloromethane _A [#]	<3	<3							µg/l	A-T-006w
1,2-Dibromoethane _A [#]	<1	<1							µg/l	A-T-006w
Tetrachloroethene _A	<1	<1							µg/l	A-T-006w

Envirolab Job Number: 18/06654

Client Project Name: Coleshill Mill, Flint

Client Project Ref: 325144

Lab Sample ID	18/06654/9	18/06654/10							Units	Method ref
Client Sample No										
Client Sample ID	BH108	BH101								
Depth to Top	5.00	1.00								
Depth To Bottom										
Date Sampled	17-Aug-18	17-Aug-18								
Sample Type	Water - EW	Water - EW								
Sample Matrix Code	N/A	N/A								
1,1,1,2-Tetrachloroethane _A	<1	<1							µg/l	A-T-006w
Chlorobenzene _A [#]	<1	<1							µg/l	A-T-006w
Ethylbenzene _A [#]	<1	<1							µg/l	A-T-006w
m & p Xylene _A [#]	<1	<1							µg/l	A-T-006w
Bromoform _A [#]	<1	<1							µg/l	A-T-006w
Styrene _A [#]	<1	<1							µg/l	A-T-006w
1,1,2,2-Tetrachloroethane _A	<1	<1							µg/l	A-T-006w
o-Xylene _A [#]	<1	<1							µg/l	A-T-006w
1,2,3-Trichloropropane _A [#]	<1	<1							µg/l	A-T-006w
Isopropylbenzene _A [#]	<1	<1							µg/l	A-T-006w
Bromobenzene _A [#]	<1	<1							µg/l	A-T-006w
2-Chlorotoluene _A [#]	<1	<1							µg/l	A-T-006w
n-propylbenzene _A [#]	<1	<1							µg/l	A-T-006w
4-Chlorotoluene _A [#]	<1	<1							µg/l	A-T-006w
1,2,4-Trimethylbenzene _A [#]	<1	<1							µg/l	A-T-006w
4-Isopropyltoluene _A [#]	<1	2							µg/l	A-T-006w
1,3,5-Trimethylbenzene _A [#]	<1	<1							µg/l	A-T-006w
1,2-Dichlorobenzene _A [#]	<1	<1							µg/l	A-T-006w
1,4-Dichlorobenzene _A [#]	<1	<1							µg/l	A-T-006w
sec-Butylbenzene _A [#]	<1	<1							µg/l	A-T-006w
tert-Butylbenzene _A [#]	<2	<2							µg/l	A-T-006w
1,3-Dichlorobenzene _A [#]	<1	<1							µg/l	A-T-006w
n-butylbenzene _A [#]	<1	<1							µg/l	A-T-006w
1,2-Dibromo-3-chloropropane _A [#]	<2	<2							µg/l	A-T-006w
1,2,4-Trichlorobenzene _A [#]	<3	<3							µg/l	A-T-006w
1,2,3-Trichlorobenzene _A [#]	<3	<3							µg/l	A-T-006w
Hexachlorobutadiene _A [#]	<1	<1							µg/l	A-T-006w
VOC TICs (Tentatively Identified Compounds) (w) _A	None detected	None detected								A-T-006w

Envirolab Job Number: 18/06654

Client Project Name: Coleshill Mill, Flint

Client Project Ref: 325144

Lab Sample ID	18/06654/9	18/06654/10							Units	Method ref
Client Sample No										
Client Sample ID	BH108	BH101								
Depth to Top	5.00	1.00								
Depth To Bottom										
Date Sampled	17-Aug-18	17-Aug-18								
Sample Type	Water - EW	Water - EW								
Sample Matrix Code	N/A	N/A								
TPH CWG (w)										
Ali >C5-C6 (w) _A [#]	<1	<1							µg/l	A-T-022w
Ali >C6-C8 (w) _A [#]	<1	<1							µg/l	A-T-022w
Ali >C8-C10 (w) _A [#]	<5	<5							µg/l	A-T-055w
Ali >C10-C12 (w) _A [#]	<5	<5							µg/l	A-T-055w
Ali >C12-C16 (w) _A [#]	<5	<5							µg/l	A-T-055w
Ali >C16-C21 (w) _A [#]	<5	<5							µg/l	A-T-055w
Ali >C21-C35 (w) _A [#]	<5	11							µg/l	A-T-055w
Total Aliphatics >C5-C35 (w) _A [#]	<5	11							µg/l	A-T-055w
Aro >C5-C7 (w) _A [#]	<1	<1							µg/l	A-T-022w
Aro >C7-C8 (w) _A [#]	<1	<1							µg/l	A-T-022w
Aro >C8-C10 (w) _A	<5	12							µg/l	A-T-055w
Aro >C10-C12 (w) _A [#]	<5	155							µg/l	A-T-055w
Aro >C12-C16 (w) _A [#]	<5	41							µg/l	A-T-055w
Aro >C16-C21 (w) _A [#]	<5	19							µg/l	A-T-055w
Aro >C21-C35 (w) _A [#]	<10	22							µg/l	A-T-055w
Total Aromatics >C5-C35 (w) _A	<10	250							µg/l	A-T-055w
TPH (Ali & Aro >C5-C35) (w) _A	<10	261							µg/l	A-T-055w
BTEX - Benzene (w) _A [#]	<1	<1							µg/l	A-T-022w
BTEX - Toluene (w) _A [#]	<1	<1							µg/l	A-T-022w
BTEX - Ethyl Benzene (w) _A [#]	<1	<1							µg/l	A-T-022w
BTEX - m & p Xylene (w) _A [#]	<1	<1							µg/l	A-T-022w
BTEX - o Xylene (w) _A [#]	<1	<1							µg/l	A-T-022w
MTBE (w) _A [#]	<1	<1							µg/l	A-T-022w

REPORT NOTES

General:

This report shall not be reproduced, except in full, without written approval from Envirolab.

All samples contained within this report, and any received with the same delivery, will be disposed of one month after the date of this report.

Analytical results reflect the quality of the sample at the time of analysis only.

Opinions and interpretations expressed are outside the scope of our accreditation.

If results are in italic font they are associated with an AQC failure and there is insufficient sample to repeat the analysis. These are not accredited and are unreliable.

A deviating samples report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.

Soil chemical analysis:

All results are reported as dry weight (<40°C).

For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as '% stones >10mm'.

For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any "A" subscripts

All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any "D" subscripts.

TPH analysis of water by method A-T-007:

Free and visible oils are excluded from the sample used for analysis so that the reported result represents the dissolved phase only.

Electrical Conductivity of water by Method A-T-037:

Results greater than 12900µS/cm @ 25°C / 11550µS/cm @ 20°C fall outside the calibration range and as such are unaccredited.

Asbestos:

Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.

Stones etc. are not removed from the sample prior to analysis.

Quantification of asbestos is a 3 stage process including visual identification, hand picking and weighing and fibre counting by sedimentation/phase contrast optical microscopy if required. If asbestos is identified as being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres) quantification by sedimentation is performed. Where ACMs are found a percentage asbestos is assigned to each with reference to 'HSG264, Asbestos: The survey guide' and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used.

Predominant Matrix Codes:

1 = SAND, 2 = LOAM, 3 = CLAY, 4 = LOAM/SAND, 5 = SAND/CLAY, 6 = CLAY/LOAM, 7 = OTHER, 8 = Asbestos bulk ID sample.

Samples with Matrix Code 7 & 8 are not predominantly a SAND/LOAM/CLAY mix and are not covered by our BSEN 17025 or MCERTS accreditations, with the exception of bulk asbestos which are BSEN 17025 accredited.

Secondary Matrix Codes:

A = contains stones, B = contains construction rubble, C = contains visible hydrocarbons, D = contains glass/metal,

E = contains roots/twigs.

Key:

IS indicates Insufficient Sample for analysis.

US indicates Unsuitable Sample for analysis.

NDP indicates No Determination Possible.

NAD indicates No Asbestos Detected.

N/A indicates Not Applicable.

Superscript # indicates method accredited to ISO 17025.

Superscript "M" indicates method accredited to MCERTS.

Subscript "A" indicates analysis performed on the sample as received.

Subscript "D" indicates analysis performed on the dried sample, crushed to pass a 2mm sieve

Please contact us if you need any further information.

Envirolab Deviating Samples Report

Units 7&8 Sandpits Business Park, Mottram Road, Hyde, SK14 3AR
Tel. 0161 368 4921 email. ask@envlab.co.uk

Client:	RSK Environment Helsby, Spring Lodge, 172 Chester Road, Helsby, Cheshire, UK, WA6 0AR	Project No:	18/06654
Project:	Coleshill Mill, Flint	Date Instructions Received:	21/08/2018 (am)
Clients Project No:	325144	Cool Box Temperatures (°C):	19.1, 19.3, 19.5

NO DEVIATIONS IDENTIFIED

If, at any point before reaching the laboratory, the temperature of the samples has breached those set in published standards, e.g. BS-EN 5667-3, ISO 18400-102:2017, then the concentration of any affected analytes may differ from that at the time of sampling.

SVOC Tentatively Identified Compounds

(Note: TIC Results are reported on an as received basis and are not moisture corrected).

**Appendix to Envirolab Report:**

Lab Client Sample ID	18/06654/6		
Client Sample ID	BH110		
Depth to top	3.75		
Depth to bottom			
Top 10	Compound	CAS number	Estimated Concentration µg/l
1	Phthalamic acid	088-97-1	24
2	Callitrisic acid	5155-70-4	13.93333333

Lab Client Sample ID	18/06654/10		
Client Sample ID	BH101		
Depth to top	1.00		
Depth to bottom			
Top 10	Compound	CAS number	Estimated Concentration µg/l
1	Callitrisic acid	5155-70-4	55.88888889

FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 21/00300
Issue Number: 1
Date: 29 January, 2021

Client: RSK Environment Helsby
Spring Lodge
172 Chester Road
Helsby
Cheshire
UK
WA6 0AR

Project Manager: Michael Owens/Rebecca Chanter
Project Name: Coleshill Mill
Project Ref: 325366
Order No: N/A
Date Samples Received: 13/01/21
Date Instructions Received: 14/01/21
Date Analysis Completed: 29/01/21

Prepared by:


Melanie Marshall
Laboratory Coordinator

Approved by:


Holly Neary-King
Client Services Supervisor

Envirolab Job Number: 21/00300

Client Project Name: Coleshill Mill

Client Project Ref: 325366

Lab Sample ID	21/00300/1	21/00300/2	21/00300/3	21/00300/4	21/00300/5	21/00300/6	21/00300/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	BH105	BH104	BH101	BH103	Duplicate	BH106	BH106A			
Depth to Top	2.5	2.2	1.3	1.5		0.5	2.5			
Depth To Bottom										
Date Sampled	11-Jan-21	11-Jan-21	11-Jan-21	11-Jan-21	11-Jan-21	12-Jan-21	12-Jan-21			
Sample Type	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW			
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
pH (w) _A [#]	8.29	7.87	8.34	8.08	8.22	8.05	7.85	pH	0.01	A-T-031w
Electrical conductivity @ 20degC (w) _A [#]	630	815	652	1494	632	677	743	µg/l	10	A-T-037w
Alkalinity (total) (w) Colorimetry _A [#]	258	256	200	280	261	296	250	mg/l Ca CO ₃	20	A-T-038w
Ammoniacal nitrogen as N (w) _A [#]	0.04	0.06	<0.02	0.37	0.05	0.14	0.10	mg/l	0.02	A-T-033w
Chloride (w) _A [#]	34	56	48	79	34	60	68	mg/l	1	A-T-026w
Sulphate (w) _A [#]	69	88	114	545	71	27	51	mg/l	1	A-T-026w
Sulphide (w) _A	<0.1	<0.1	<0.1	0.2	0.3	0.3	<0.1	mg/l	0.1	A-T-S2-w
DOC (w) _A [#]	3.9	1.8	1.8	5.2	4.0	2.5	1.5	mg/l	0.2	A-T-032w
Arsenic (dissolved) _A [#]	<1	<1	1	16	<1	5	<1	µg/l	1	A-T-025w
Boron (dissolved) _A [#]	29	53	87	24	32	24	71	µg/l	10	A-T-025w
Cadmium (dissolved) _A [#]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	µg/l	0.2	A-T-025w
Copper (dissolved) _A [#]	16	7	5	3	17	5	3	µg/l	1	A-T-025w
Chromium (dissolved) _A [#]	8	<1	<1	<1	8	6	9	µg/l	1	A-T-025w
Lead (dissolved) _A [#]	<1	1	<1	<1	<1	<1	<1	µg/l	1	A-T-025w
Mercury (dissolved) _A [#]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	µg/l	0.1	A-T-025w
Nickel (dissolved) _A [#]	6	<1	<1	4	7	<1	<1	µg/l	1	A-T-025w
Selenium (dissolved) _A [#]	1	1	10	<1	1	<1	1	µg/l	1	A-T-025w
Zinc (dissolved) _A [#]	110	25	4	4	170	9	1	µg/l	1	A-T-025w

Envirolab Job Number: 21/00300

Client Project Name: Coleshill Mill

Client Project Ref: 325366

Lab Sample ID	21/00300/1	21/00300/2	21/00300/3	21/00300/4	21/00300/5	21/00300/6	21/00300/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	BH105	BH104	BH101	BH103	Duplicate	BH106	BH106A			
Depth to Top	2.5	2.2	1.3	1.5		0.5	2.5			
Depth To Bottom										
Date Sampled	11-Jan-21	11-Jan-21	11-Jan-21	11-Jan-21	11-Jan-21	12-Jan-21	12-Jan-21			
Sample Type	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW			
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
SVOC (excluding PAH-16) (w)										
1,2,4-Trichlorobenzene _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
1,2-Dichlorobenzene _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
1,3-Dichlorobenzene _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
1,4-Dichlorobenzene _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
2,4,5-Trichlorophenol _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
2,4,6-Trichlorophenol _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
2,4-Dichlorophenol _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
2,4-Dimethylphenol _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
2,4-Dinitrotoluene _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
2,6-Dinitrotoluene _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
2-Chloronaphthalene _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
2-Chlorophenol _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
2-Methylnaphthalene _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
2-Methylphenol _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
2-Nitrophenol _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
4-Bromophenyl phenyl ether _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
4-Chloro-3-methylphenol _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Bis(2-chloroisopropyl)ether _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
3+4-Methylphenol _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
4-Nitrophenol _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Bis(2-chloroethyl)ether _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Bis(2-chloroethoxy)methane _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Bis(2-ethylhexyl)phthalate _A	<10	<10	<10	<10	<10	<10	<10	µg/l	10	A-T-052w
Butylbenzyl phthalate _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Carbazole _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Dibenzofuran _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
n-Dibutylphthalate _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
n-Diethylphthalate _A	<10	<10	<10	<10	<10	<10	<10	µg/l	10	A-T-052w
n-Nitroso-n-dipropylamine _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Diethyl phthalate _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Dimethyl phthalate _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Hexachlorobutadiene _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w

Envirolab Job Number: 21/00300

Client Project Name: Coleshill Mill

Client Project Ref: 325366

Lab Sample ID	21/00300/1	21/00300/2	21/00300/3	21/00300/4	21/00300/5	21/00300/6	21/00300/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	BH105	BH104	BH101	BH103	Duplicate	BH106	BH106A			
Depth to Top	2.5	2.2	1.3	1.5		0.5	2.5			
Depth To Bottom										
Date Sampled	11-Jan-21	11-Jan-21	11-Jan-21	11-Jan-21	11-Jan-21	12-Jan-21	12-Jan-21			
Sample Type	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW			
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
Hexachlorobenzene _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Pentachlorophenol (SVOC) _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Phenol _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Hexachloroethane _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Nitrobenzene _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Isophorone _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Hexachlorocyclopentadiene _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Perylene _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w

Envirolab Job Number: 21/00300

Client Project Name: Coleshill Mill

Client Project Ref: 325366

Lab Sample ID	21/00300/1	21/00300/2	21/00300/3	21/00300/4	21/00300/5	21/00300/6	21/00300/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	BH105	BH104	BH101	BH103	Duplicate	BH106	BH106A			
Depth to Top	2.5	2.2	1.3	1.5		0.5	2.5			
Depth To Bottom										
Date Sampled	11-Jan-21	11-Jan-21	11-Jan-21	11-Jan-21	11-Jan-21	12-Jan-21	12-Jan-21			
Sample Type	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW			
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
VOC (w)										
Dichlorodifluoromethane _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Chloromethane _A	<10	<10	<10	<10	<10	<10	<10	µg/l	10	A-T-006w
Vinyl Chloride _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Bromomethane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Chloroethane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Trichlorofluoromethane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
trans 1,2-Dichloroethene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Dichloromethane _A	<5	<5	<5	<5	<5	<5	<5	µg/l	5	A-T-006w
Carbon Disulphide _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,1-Dichloroethene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,1-Dichloroethane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
cis 1,2-Dichloroethene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Bromochloromethane _A [#]	<5	<5	<5	<5	<5	<5	<5	µg/l	5	A-T-006w
Chloroform _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
2,2-Dichloropropane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,2-Dichloroethane _A [#]	<2	<2	<2	<2	<2	<2	<2	µg/l	2	A-T-006w
1,1,1-Trichloroethane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,1-Dichloropropene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Benzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Carbon Tetrachloride _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Dibromomethane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,2-Dichloropropane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Bromodichloromethane _A [#]	<10	<10	<10	<10	<10	<10	<10	µg/l	10	A-T-006w
Trichloroethene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
cis 1,3-Dichloropropene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
trans 1,3-Dichloropropene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,1,2-Trichloroethane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Toluene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,3-Dichloropropane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Dibromochloromethane _A [#]	<3	<3	<3	<3	<3	<3	<3	µg/l	3	A-T-006w
1,2-Dibromoethane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Tetrachloroethene _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w

Envirolab Job Number: 21/00300

Client Project Name: Coleshill Mill

Client Project Ref: 325366

Lab Sample ID	21/00300/1	21/00300/2	21/00300/3	21/00300/4	21/00300/5	21/00300/6	21/00300/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	BH105	BH104	BH101	BH103	Duplicate	BH106	BH106A			
Depth to Top	2.5	2.2	1.3	1.5		0.5	2.5			
Depth To Bottom										
Date Sampled	11-Jan-21	11-Jan-21	11-Jan-21	11-Jan-21	11-Jan-21	12-Jan-21	12-Jan-21			
Sample Type	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW			
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
1,1,1,2-Tetrachloroethane _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Chlorobenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Ethylbenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
m & p Xylene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Bromoform _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Styrene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,1,2,2-Tetrachloroethane _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
o-Xylene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,2,3-Trichloropropane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Isopropylbenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Bromobenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
2-Chlorotoluene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
n-propylbenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
4-Chlorotoluene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,2,4-Trimethylbenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
4-Isopropyltoluene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,3,5-Trimethylbenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,2-Dichlorobenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,4-Dichlorobenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
sec-Butylbenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
tert-Butylbenzene _A [#]	<2	<2	<2	<2	<2	<2	<2	µg/l	2	A-T-006w
1,3-Dichlorobenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
n-butylbenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,2-Dibromo-3-chloropropane _A [#]	<2	<2	<2	<2	<2	<2	<2	µg/l	2	A-T-006w
1,2,4-Trichlorobenzene _A [#]	<3	<3	<3	<3	<3	<3	<3	µg/l	3	A-T-006w
1,2,3-Trichlorobenzene _A [#]	<3	<3	<3	<3	<3	<3	<3	µg/l	3	A-T-006w
Hexachlorobutadiene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w

Envirolab Job Number: 21/00300

Client Project Name: Coleshill Mill

Client Project Ref: 325366

Lab Sample ID	21/00300/1	21/00300/2	21/00300/3	21/00300/4	21/00300/5	21/00300/6	21/00300/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	BH105	BH104	BH101	BH103	Duplicate	BH106	BH106A			
Depth to Top	2.5	2.2	1.3	1.5		0.5	2.5			
Depth To Bottom										
Date Sampled	11-Jan-21	11-Jan-21	11-Jan-21	11-Jan-21	11-Jan-21	12-Jan-21	12-Jan-21			
Sample Type	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW			
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
TPH CWG (w)										
Ali >C5-C6 (w) _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-022w
Ali >C6-C8 (w) _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-022w
Ali >C8-C10 (w) _A [#]	<5	<5	<5	<5	<5	<5	<5	µg/l	5	A-T-055w
Ali >C10-C12 (w) _A [#]	<5	<5	<5	<5	<5	<5	<5	µg/l	5	A-T-055w
Ali >C12-C16 (w) _A [#]	<5	<5	<5	<5	<5	<5	<5	µg/l	5	A-T-055w
Ali >C16-C21 (w) _A [#]	<5	<5	<5	<5	<5	<5	<5	µg/l	5	A-T-055w
Ali >C21-C35 (w) _A [#]	<5	<5	<5	<5	<5	<5	<5	µg/l	5	A-T-055w
Total Aliphatics (w) _A [#]	<5	<5	<5	<5	<5	<5	<5	µg/l	5	A-T-055w
Aro >C5-C7 (w) _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-022w
Aro >C7-C8 (w) _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-022w
Aro >C8-C10 (w) _A	<5	<5	<5	<5	<5	7	<5	µg/l	5	A-T-055w
Aro >C10-C12 (w) _A [#]	<5	<5	<5	<5	<5	15	<5	µg/l	5	A-T-055w
Aro >C12-C16 (w) _A [#]	<5	<5	<5	<5	<5	82	<5	µg/l	5	A-T-055w
Aro >C16-C21 (w) _A [#]	<5	<5	<5	<5	<5	51	<5	µg/l	5	A-T-055w
Aro >C21-C35 (w) _A [#]	<10	<10	<10	<10	<10	30	<10	µg/l	10	A-T-055w
Total Aromatics (w) _A	<10	<10	<10	<10	<10	185	<10	µg/l	10	A-T-055w
TPH (Ali & Aro >C5-C35) (w) _A	<10	<10	<10	<10	<10	185	<10	µg/l	10	A-T-055w
BTEX - Benzene (w) _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-022w
BTEX - Toluene (w) _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-022w
BTEX - Ethyl Benzene (w) _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-022w
BTEX - m & p Xylene (w) _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-022w
BTEX - o Xylene (w) _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-022w
MTBE (w) _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-022w

Envirolab Job Number: 21/00300

Client Project Name: Coleshill Mill

Client Project Ref: 325366

Lab Sample ID	21/00300/8	21/00300/9	21/00300/10	21/00300/11				Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	BH107	BH108	BH109	BH110						
Depth to Top	1.7	5.5	2.1	3.6						
Depth To Bottom										
Date Sampled	12-Jan-21	12-Jan-21	12-Jan-21	12-Jan-21						
Sample Type	Water - EW	Water - EW	Water - EW	Water - EW						
Sample Matrix Code	N/A	N/A	N/A	N/A						
pH (w) _A [#]	7.85	7.77	8.04	13.42				pH	0.01	A-T-031w
Electrical conductivity @ 20degC (w) _A [#]	766	754	873	10130				µg/l	10	A-T-037w
Alkalinity (total) (w) Colorimetry _A [#]	320	396	339	2120				mg/l Ca CO3	20	A-T-038w
Ammoniacal nitrogen as N (w) _A [#]	0.05	0.05	0.12	8.47				mg/l	0.02	A-T-033w
Chloride (w) _A [#]	56	6	69	41				mg/l	1	A-T-026w
Sulphate (w) _A [#]	51	63	87	<1				mg/l	1	A-T-026w
Sulphide (w) _A	<0.1	0.3	<0.1	<0.1				mg/l	0.1	A-T-S2-w
DOC (w) _A [#]	1.4	2.9	2.0	83.0				mg/l	0.2	A-T-032w
Arsenic (dissolved) _A [#]	1	<1	1	<5				µg/l	1	A-T-025w
Boron (dissolved) _A [#]	43	26	29	99				µg/l	10	A-T-025w
Cadmium (dissolved) _A [#]	<0.2	<0.2	<0.2	<1.0				µg/l	0.2	A-T-025w
Copper (dissolved) _A [#]	6	6	5	34				µg/l	1	A-T-025w
Chromium (dissolved) _A [#]	17	21	12	17				µg/l	1	A-T-025w
Lead (dissolved) _A [#]	<1	<1	<1	11				µg/l	1	A-T-025w
Mercury (dissolved) _A [#]	<0.1	<0.1	<0.1	<0.5				µg/l	0.1	A-T-025w
Nickel (dissolved) _A [#]	<1	1	1	158				µg/l	1	A-T-025w
Selenium (dissolved) _A [#]	<1	<1	<1	<5				µg/l	1	A-T-025w
Zinc (dissolved) _A [#]	2	2	3	7				µg/l	1	A-T-025w

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Client Project Name: Coleshill Mill

Client Project Ref: 325366

Lab Sample ID	21/00300/8	21/00300/9	21/00300/10	21/00300/11				Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	BH107	BH108	BH109	BH110						
Depth to Top	1.7	5.5	2.1	3.6						
Depth To Bottom										
Date Sampled	12-Jan-21	12-Jan-21	12-Jan-21	12-Jan-21						
Sample Type	Water - EW	Water - EW	Water - EW	Water - EW						
Sample Matrix Code	N/A	N/A	N/A	N/A						
SVOC (excluding PAH-16) (w)										
1,2,4-Trichlorobenzene _A	<1	<1	<1	<1				µg/l	1	A-T-052w
1,2-Dichlorobenzene _A	<1	<1	<1	<1				µg/l	1	A-T-052w
1,3-Dichlorobenzene _A	<1	<1	<1	<1				µg/l	1	A-T-052w
1,4-Dichlorobenzene _A	<1	<1	<1	<1				µg/l	1	A-T-052w
2,4,5-Trichlorophenol _A	<1	<1	<1	<1				µg/l	1	A-T-052w
2,4,6-Trichlorophenol _A	<1	<1	<1	<1				µg/l	1	A-T-052w
2,4-Dichlorophenol _A	<1	<1	<1	<1				µg/l	1	A-T-052w
2,4-Dimethylphenol _A	<1	<1	<1	<1				µg/l	1	A-T-052w
2,4-Dinitrotoluene _A	<1	<1	<1	<1				µg/l	1	A-T-052w
2,6-Dinitrotoluene _A	<1	<1	<1	<1				µg/l	1	A-T-052w
2-Chloronaphthalene _A	<1	<1	<1	<1				µg/l	1	A-T-052w
2-Chlorophenol _A	<1	<1	<1	<1				µg/l	1	A-T-052w
2-Methylnaphthalene _A	<1	<1	<1	<1				µg/l	1	A-T-052w
2-Methylphenol _A	<1	<1	<1	<1				µg/l	1	A-T-052w
2-Nitrophenol _A	<1	<1	<1	<1				µg/l	1	A-T-052w
4-Bromophenyl phenyl ether _A	<1	<1	<1	<1				µg/l	1	A-T-052w
4-Chloro-3-methylphenol _A	<1	<1	<1	<1				µg/l	1	A-T-052w
Bis(2-chloroisopropyl)ether _A	<1	<1	<1	<1				µg/l	1	A-T-052w
3+4-Methylphenol _A	<1	<1	<1	<1				µg/l	1	A-T-052w
4-Nitrophenol _A	<1	<1	<1	<1				µg/l	1	A-T-052w
Bis(2-chloroethyl)ether _A	<1	<1	<1	<1				µg/l	1	A-T-052w
Bis(2-chloroethoxy)methane _A	<1	<1	<1	<1				µg/l	1	A-T-052w
Bis(2-ethylhexyl)phthalate _A	<10	<10	<10	<10				µg/l	10	A-T-052w
Butylbenzyl phthalate _A	<1	<1	<1	<1				µg/l	1	A-T-052w
Carbazole _A	<1	<1	<1	<1				µg/l	1	A-T-052w
Dibenzofuran _A	<1	<1	<1	<1				µg/l	1	A-T-052w
n-Dibutylphthalate _A	<1	<1	<1	<1				µg/l	1	A-T-052w
n-Diethylphthalate _A	<10	<10	<10	<10				µg/l	10	A-T-052w
n-Nitroso-n-dipropylamine _A	<1	<1	<1	<1				µg/l	1	A-T-052w
Diethyl phthalate _A	<1	<1	<1	<1				µg/l	1	A-T-052w
Dimethyl phthalate _A	<1	<1	<1	<1				µg/l	1	A-T-052w
Hexachlorobutadiene _A	<1	<1	<1	<1				µg/l	1	A-T-052w

Envirolab Job Number: 21/00300

Client Project Name: Coleshill Mill

Client Project Ref: 325366

Lab Sample ID	21/00300/8	21/00300/9	21/00300/10	21/00300/11				Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	BH107	BH108	BH109	BH110						
Depth to Top	1.7	5.5	2.1	3.6						
Depth To Bottom										
Date Sampled	12-Jan-21	12-Jan-21	12-Jan-21	12-Jan-21						
Sample Type	Water - EW	Water - EW	Water - EW	Water - EW						
Sample Matrix Code	N/A	N/A	N/A	N/A						
Hexachlorobenzene _A	<1	<1	<1	<1				µg/l	1	A-T-052w
Pentachlorophenol (SVOC) _A	<1	<1	<1	<1				µg/l	1	A-T-052w
Phenol _A	<1	<1	<1	<1				µg/l	1	A-T-052w
Hexachloroethane _A	<1	<1	<1	<1				µg/l	1	A-T-052w
Nitrobenzene _A	<1	<1	<1	<1				µg/l	1	A-T-052w
Isophorone _A	<1	<1	<1	<1				µg/l	1	A-T-052w
Hexachlorocyclopentadiene _A	<1	<1	<1	<1				µg/l	1	A-T-052w
Perylene _A	<1	<1	<1	<1				µg/l	1	A-T-052w

Envirolab Job Number: 21/00300

Client Project Name: Coleshill Mill

Client Project Ref: 325366

Lab Sample ID	21/00300/8	21/00300/9	21/00300/10	21/00300/11				Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	BH107	BH108	BH109	BH110						
Depth to Top	1.7	5.5	2.1	3.6						
Depth To Bottom										
Date Sampled	12-Jan-21	12-Jan-21	12-Jan-21	12-Jan-21						
Sample Type	Water - EW	Water - EW	Water - EW	Water - EW						
Sample Matrix Code	N/A	N/A	N/A	N/A						
VOC (w)										
Dichlorodifluoromethane _A	<1	<1	<1	<1				µg/l	1	A-T-006w
Chloromethane _A	<10	<10	<10	<10				µg/l	10	A-T-006w
Vinyl Chloride _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
Bromomethane _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
Chloroethane _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
Trichlorofluoromethane _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
trans 1,2-Dichloroethene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
Dichloromethane _A	<5	<5	<5	<5				µg/l	5	A-T-006w
Carbon Disulphide _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
1,1-Dichloroethene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
1,1-Dichloroethane _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
cis 1,2-Dichloroethene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
Bromochloromethane _A [#]	<5	<5	<5	<5				µg/l	5	A-T-006w
Chloroform _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
2,2-Dichloropropane _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
1,2-Dichloroethane _A [#]	<2	<2	<2	<2				µg/l	2	A-T-006w
1,1,1-Trichloroethane _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
1,1-Dichloropropene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
Benzene _A [#]	<1	<1	<1	1				µg/l	1	A-T-006w
Carbon Tetrachloride _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
Dibromomethane _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
1,2-Dichloropropane _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
Bromodichloromethane _A [#]	<10	<10	<10	<10				µg/l	10	A-T-006w
Trichloroethene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
cis 1,3-Dichloropropene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
trans 1,3-Dichloropropene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
1,1,2-Trichloroethane _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
Toluene _A [#]	<1	<1	<1	4				µg/l	1	A-T-006w
1,3-Dichloropropane _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
Dibromochloromethane _A [#]	<3	<3	<3	<3				µg/l	3	A-T-006w
1,2-Dibromoethane _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
Tetrachloroethene _A	<1	<1	<1	<1				µg/l	1	A-T-006w

Envirolab Job Number: 21/00300

Client Project Name: Coleshill Mill

Client Project Ref: 325366

Lab Sample ID	21/00300/8	21/00300/9	21/00300/10	21/00300/11				Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	BH107	BH108	BH109	BH110						
Depth to Top	1.7	5.5	2.1	3.6						
Depth To Bottom										
Date Sampled	12-Jan-21	12-Jan-21	12-Jan-21	12-Jan-21						
Sample Type	Water - EW	Water - EW	Water - EW	Water - EW						
Sample Matrix Code	N/A	N/A	N/A	N/A						
1,1,1,2-Tetrachloroethane _A	<1	<1	<1	<1				µg/l	1	A-T-006w
Chlorobenzene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
Ethylbenzene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
m & p Xylene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
Bromoform _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
Styrene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
1,1,2,2-Tetrachloroethane _A	<1	<1	<1	<1				µg/l	1	A-T-006w
o-Xylene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
1,2,3-Trichloropropane _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
Isopropylbenzene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
Bromobenzene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
2-Chlorotoluene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
n-propylbenzene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
4-Chlorotoluene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
1,2,4-Trimethylbenzene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
4-Isopropyltoluene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
1,3,5-Trimethylbenzene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
1,2-Dichlorobenzene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
1,4-Dichlorobenzene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
sec-Butylbenzene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
tert-Butylbenzene _A [#]	<2	<2	<2	<2				µg/l	2	A-T-006w
1,3-Dichlorobenzene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
n-butylbenzene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
1,2-Dibromo-3-chloropropane _A [#]	<2	<2	<2	<2				µg/l	2	A-T-006w
1,2,4-Trichlorobenzene _A [#]	<3	<3	<3	<3				µg/l	3	A-T-006w
1,2,3-Trichlorobenzene _A [#]	<3	<3	<3	<3				µg/l	3	A-T-006w
Hexachlorobutadiene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w

Envirolab Job Number: 21/00300

Client Project Name: Coleshill Mill

Client Project Ref: 325366

Lab Sample ID	21/00300/8	21/00300/9	21/00300/10	21/00300/11				Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	BH107	BH108	BH109	BH110						
Depth to Top	1.7	5.5	2.1	3.6						
Depth To Bottom										
Date Sampled	12-Jan-21	12-Jan-21	12-Jan-21	12-Jan-21						
Sample Type	Water - EW	Water - EW	Water - EW	Water - EW						
Sample Matrix Code	N/A	N/A	N/A	N/A						
TPH CWG (w)										
Ali >C5-C6 (w) _A [#]	<1	<1	<1	3				µg/l	1	A-T-022w
Ali >C6-C8 (w) _A [#]	<1	<1	<1	5				µg/l	1	A-T-022w
Ali >C8-C10 (w) _A [#]	<5	<5	<5	<5				µg/l	5	A-T-055w
Ali >C10-C12 (w) _A [#]	<5	<5	<5	47				µg/l	5	A-T-055w
Ali >C12-C16 (w) _A [#]	<5	<5	<5	<5				µg/l	5	A-T-055w
Ali >C16-C21 (w) _A [#]	<5	<5	<5	<5				µg/l	5	A-T-055w
Ali >C21-C35 (w) _A [#]	<5	<5	<5	<5				µg/l	5	A-T-055w
Total Aliphatics (w) _A [#]	<5	<5	<5	55				µg/l	5	A-T-055w
Aro >C5-C7 (w) _A [#]	<1	<1	<1	2				µg/l	1	A-T-022w
Aro >C7-C8 (w) _A [#]	<1	<1	<1	5				µg/l	1	A-T-022w
Aro >C8-C10 (w) _A	<5	<5	<5	19				µg/l	5	A-T-055w
Aro >C10-C12 (w) _A [#]	<5	<5	<5	117				µg/l	5	A-T-055w
Aro >C12-C16 (w) _A [#]	<5	<5	<5	44				µg/l	5	A-T-055w
Aro >C16-C21 (w) _A [#]	<5	<5	<5	18				µg/l	5	A-T-055w
Aro >C21-C35 (w) _A [#]	<10	<10	<10	12				µg/l	10	A-T-055w
Total Aromatics (w) _A	<10	<10	<10	217				µg/l	10	A-T-055w
TPH (Ali & Aro >C5-C35) (w) _A	<10	<10	<10	272				µg/l	10	A-T-055w
BTEX - Benzene (w) _A [#]	<1	<1	<1	2				µg/l	1	A-T-022w
BTEX - Toluene (w) _A [#]	<1	<1	<1	5				µg/l	1	A-T-022w
BTEX - Ethyl Benzene (w) _A [#]	<1	<1	<1	<1				µg/l	1	A-T-022w
BTEX - m & p Xylene (w) _A [#]	<1	<1	<1	<1				µg/l	1	A-T-022w
BTEX - o Xylene (w) _A [#]	<1	<1	<1	<1				µg/l	1	A-T-022w
MTBE (w) _A [#]	<1	<1	<1	<1				µg/l	1	A-T-022w

REPORT NOTES

General

This report shall not be reproduced, except in full, without written approval from Envirolab.

The results reported herein relate only to the material supplied to the laboratory.

The residue of any samples contained within this report, and any received with the same delivery, will be disposed of six weeks after initial scheduling. For samples tested for Asbestos we will retain a portion of the dried sample for a minimum of six months after the initial Asbestos testing is completed.

Analytical results reflect the quality of the sample at the time of analysis only.

Opinions and interpretations expressed are outside the scope of our accreditation.

If results are in italic font they are associated with an AQC failure, these are not accredited and are unreliable.

A deviating samples report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.

The Client Sample No, Client Sample ID, Depth to Top, Depth to Bottom and Date Sampled were all provided by the client.

Soil chemical analysis:

All results are reported as dry weight (<40°C).

For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as '% stones >10mm'.

For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any "A" subscripts

All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any "D" subscripts.

TPH analysis of water by method A-T-007:

Free and visible oils are excluded from the sample used for analysis so that the reported result represents the dissolved phase only.

Electrical Conductivity of water by Method A-T-037:

Results greater than 12900µS/cm @ 25°C / 11550µS/cm @ 20°C fall outside the calibration range and as such are unaccredited.

Asbestos:

Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.

Stones etc. are not removed from the sample prior to analysis.

Quantification of asbestos is a 3 stage process including visual identification, hand picking and weighing and fibre counting by sedimentation/phase contrast optical microscopy if required. If asbestos is identified as being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres) quantification by sedimentation is performed. Where ACMs are found a percentage asbestos is assigned to each with reference to 'HSG264, Asbestos: The survey guide' and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used.

Predominant Matrix Codes:

1 = SAND, 2 = LOAM, 3 = CLAY, 4 = LOAM/SAND, 5 = SAND/CLAY, 6 = CLAY/LOAM, 7 = OTHER, 8 = Asbestos bulk ID sample.

Samples with Matrix Code 7 & 8 are not predominantly a SAND/LOAM/CLAY mix and are not covered by our BSEN 17025 or MCERTS accreditations, with the exception of bulk asbestos which are BSEN 17025 accredited.

Secondary Matrix Codes:

A = contains stones, B = contains construction rubble, C = contains visible hydrocarbons, D = contains glass/metal,

E = contains roots/twigs.

Key:

IS indicates Insufficient Sample for analysis.

US indicates Unsuitable Sample for analysis.

NDP indicates No Determination Possible.

NAD indicates No Asbestos Detected.

N/A indicates Not Applicable.

Superscript # indicates method accredited to ISO 17025.

Superscript "M" indicates method accredited to MCERTS.

Subscript "A" indicates analysis performed on the sample as received.

Subscript "D" indicates analysis performed on the dried sample, crushed to pass a 2mm sieve

Please contact us if you need any further information.

Envirolab Deviating Samples Report

Units 7&8 Sandpits Business Park, Mottram Road, Hyde, SK14 3AR
Tel. 0161 368 4921 email. ask@envlab.co.uk

Client:	RSK Environment Helsby, Spring Lodge, 172 Chester Road, Helsby, Cheshire, UK, WA6 0AR	Project No:	21/00300
Project:	Coleshill Mill	Date Received:	14/01/2021 (am)
Clients Project No:	325366	Cool Box Temperatures (°C):	5.3 - 5.7

NO DEVIATIONS IDENTIFIED

If, at any point before reaching the laboratory, the temperature of the samples has breached those set in published standards, e.g. BS-EN 5667-3, ISO 18400-102:2017, then the concentration of any affected analytes may differ from that at the time of sampling.