

PORTWAY

ADDITIONAL SITE CONDITION REPORT

FOR WORKS AT

FORMER CONTRACT CHEMICALS
KNOWSLEY, LIVERPOOL

CLIENT: KNOWSLEY REDEVELOPMENTS
LTD

Date: 21/09/2021

Ref: PTW210 CR1

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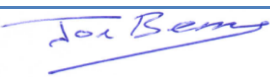
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Contents

1.0 EXECUTIVE SUMMARY	1
2.0 INTRODUCTION	2
2.1 Appointment	2
2.2 Roles and Responsibilities	2
3.0 SITE SETTINGS	3
3.1 Site Details	3
3.2 Current Site Use	3
3.3 Redevelopment Plans	3
3.4 Site Zoning	3
3.5 Geology	4
3.6 Hydrogeology	4
4.0 DECOMMISSIONING	5
4.1 Statement – Site Operations and Closure	5
4.2 Chemical Removal	5
5.0 TESTING UNDERTAKEN ON SITE	6
5.1 Program	6
5.2 Enabling Works	6
5.2.1 Pre Start Works	6
5.2.2 Demolition and Hard Standing Removal	6
5.2.3 Ground Proving	6
5.3 Other Site Works	6
5.3.1 Removal of Wastes and Chemicals	6
5.3.2 Pre Excavation Works	7
5.3.3 Ground Waters	7
5.3.4 Soil Samples	1
6.0 CONCLUSIONS	1
APPENDIX A - SITE DRAWING, SAMPLE LOCATION PLAN	2
APPENDIX B - REMOVED CHEMICAL WASTE	5
APPENDIX C - ANALYTICAL TEST RESULTS SOIL AND WATERS	17
APPENDIX D - PHOTOGRAPHIC PLATES	45
APPENDIX E – WASTE REMOVAL	55
APPENDIX F – PLANT DECOMMISSIONING	56
APPENDIX G – HISTORIC REPORTS AND DOCUMENTS RECOVERED (SUMMARY)	57

1.0 EXECUTIVE SUMMARY

Portway was appointed by Knowsley Redevelopments Ltd to apply for the surrender of the Environment Agency issued permit. at the former Contract Chemicals, Penrhyn Road, Knowsley.

Summary Principle Objectives

Listed below is a brief outline of the works completed:

- Formal decommissioning of all tanks, vessels and pipework (water flush with testing).
- Removal of all chemicals/wastes.
- Recovery of office files, reports and paperwork to assist with the surrender application.
- Demolition of the structures, buildings and removal of the concrete slab.
- Termination of internal services, (water, gas, power and drainage).

Listed below is a brief outline of the remedial works/actions carried out for this project;

- Monitoring of BH's and validation testing of soil and groundwater.
- Verification Report for works.

This report should be read in conjunction with the reports and documents listed within the surrender application. Due to the large number of reports and incidents a complete list cannot be issued due to the large size as over 112 large binder files have been saved from the offices.

To reflect the good practice used on site, certain documents have been scanned in full or limited sections have been scanned as the general house keeping recorded ALL events both major and minor. An example of a major event would be a spillage or a system failure within the chemical plant, a minor event could be someone on site using a mobile phone.

2.0 INTRODUCTION

2.1 Appointment

Portway was appointed by Knowsley Redevelopments Ltd to carry out the surrender application at the former Contract Chemicals Ltd, Penrhyn Road, Knowsley.

2.2 Roles and Responsibilities

The project team responsible for the delivery of the remedial works is described in Table 1, below.

Table 1 Summary of Roles

<i>Team Member</i>	<i>Role</i>
City Demolition	Principle Contractor
Portway Remediation Ltd	Agent for the surrender application
GRM	Environmental Consultant
Knowsley Redevelopments Ltd	Client

3.0 SITE SETTINGS

3.1 Site Details

Site Address	Contract Chemicals, Penrhyn Road, Prescot, L34 9HY
National Grid Reference	SJ 43032 96683

3.2 Current Site Use

Site Description

The site comprised of the former Chemical Works on a rectangular shaped parcel of land. The site is accessed from the south, off Penrhyn Road. The area had an impermeable surface due to the concrete covering, with most of the former buildings now being demolished; a limited amount of vegetation was present around the periphery of the site. The surrounding area is heavy industrial.

The level across the site was generally flat.

Contaminative uses/structures

As detailed briefly above, and with reference to reporting undertaken by others previously, contaminated uses and associated structures present on site comprise:

Former chemical works with upper tier COMAH status and storage of hazardous chemicals and by products.

Surrounding Area

The surrounding land uses are summarised below:

Direction	Land Use
North	Main Road A580
East	Commercial
South	Commercial
West	Commercial

3.3 Redevelopment Plans

The site has been zoned for the use of commercial redevelopment – assumed.

3.4 Site Zoning

The site has only been subject to the installation of 5 window sample points to obtain soil and water samples from the corners of the site and centre to provide an overview of the general condition. In addition to this 11 surface soil samples were taken from across the site after the impermeable concrete surface was lifted during the demolition element.

3.5 Geology

Assessment of the geology can be found in Geo-Environmental Ground Investigation by AIG, dated 2001.

In summary the site is underlain by Shirdley Hill Sand overlying glacial deposits and Triassic Sandstone strata (Sherwood Sandstone).

3.6 Hydrogeology

Assessment of the Hydrogeology can be found in Geo-Environmental Ground Investigation by AIG, dated 2001.

In summary the site and surrounding land is noted to be a Major Aquifer (Sherwood Sandstone) and a high leaching potential should be considered for assessment purposes.

4.0 DECOMMISSIONING

The decommissioning that has been carried out on site is the full cleaning, purging and flushing of all chemical vessels and pipe work. Following this final decommissioning procedure, the water used to clean down each section was sampled and tested to prove that all systems had been correctly deep cleaned.

4.1 Statement – Site Operations and Closure

Contact Chemicals had in place several layers of safeguards to prevent uncontrolled releases of chemicals due to the upper tier COMAH status. The management, recording and actions taken to address any uncontrolled leak, reaction or spillage have been documented ranging from minor events recorded within the annual Abnormal Occurrences and significant events being formally reported and investigated in conjunction with the regulators (HSE, EA and LA).

An example of an Abnormal Occurrence is the use of a mobile phone on site by contractor who was informed that the use of mobile phones in certain areas is prohibited. An example of a significant event which was subject to a detailed investigation was the 6300 Incident, Distillation of Benzyl Bromoacetate on 5th Jan 2002 where the “pressurisation blew the bursting disc”.

After an event which resulted in the release or spillage of a chemical; reporting and actions to clean, contain, react or disburse the chemical are quickly undertaken to prevent an escalation of the problem. To prevent accidents/spills/leaks/uncontrolled reactions strict operation methodology is followed. All chemicals and chemical by-products are held within a warehouse or open bunded storage with a sealed drainage system with interceptor and monitor linked to the Statutory Water Undertaker.

Prior to the demolition works commencing 5 number boreholes were installed and samples were obtained from the upper and deeper soils also 4 ground water samples were obtained. In addition, 11 number of surface soil samples were obtained and tested after removing the concrete slab.

4.2 Chemical Removal

The site decommissioning has continued with the appointment of Avanti to remove and dispose of the redundant chemicals, by products and wastes. An example of this is shown within the appendix, the chemical list denoting that all materials have been removed.

Current soil/water sampling and results show that the site is not contaminated and that the former chemical works policies, procedures, operating practices, reporting, safeguards and mitigation methods used after an event have worked effectively. While a more detailed ground investigation may be required by the Planning Authority. It is likely that no remediation will be required after the demolition phase based on the current samples obtained.

5.0 TESTING UNDERTAKEN ON SITE

5.1 Program

The decommissioning works carried out from January 2021 and this will be completed by October 2021.

5.2 Enabling Works

5.2.1 Pre Start Works

Discussions were held with the Environmental Agency regarding the surrender process for this site.

Following these discussions with the Environment Agency and considering the volumes of chemical/waste on site, the removal offsite for disposal was deemed a requirement before surrendering the COMAH status.

Also the site was subject to being fully decommissioned/flushed and the cleaning waters used were then sampled and analysed to prove that the chemical works equipment could be safely removed.

All live services in and out of the site were then terminated to allow the demolition phase.

5.2.2 Demolition and Hard Standing Removal

After completing the decommissioning phase the physical demolition works commenced to remove the relic metal items for recycling, destruction of the buildings and crushing of the concrete slab covering the surface.

5.2.3 Ground Proving

Ground proving was deemed necessary on this site due to the foundations of the former structures, during this operation no odours or discolouration was noted within the ground conditions. As further supported by the soil test results.

5.3 Other Site Works

5.3.1 Removal of Wastes and Chemicals

Due to the history of the site and use as a chemical works,

The storage area holding chemical products and by products was fenced off with signage erected to restrict access to relevant site operatives only. Before commencement of the intrusive demolition works a quarantine and treatment storage areas were constructed also using the above methodology in accordance with EA guidelines.

5.3.2 Pre Excavation Works

No excavation works were required in this instance.

5.3.3 Ground Waters

Hand bailed samples obtained from 4 of the 5 wells as one well did not yield any water. Sample analysis and did not contain significant elevated levels of chemicals below is a summary table of the results of interest.

Below is a summary of the only substances detected within the groundwater samples obtained. Contained within Appendix C is a complete set of results showing the limit of detection.

Analytical Report Number: 21-72714

Project / Site name: Contract Chemicals

Lab Sample Number	1858591	1858592	1858593	1858594
Sample Reference	BH4	BH5	BH1	BH3
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	2.00	2.00	2.00	2.00
Date Sampled	27/04/2021	27/04/2021	29/04/2021	29/04/2021
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Water Analysis)	Units	Limit of detection	Accreditation Status	

General Inorganics

pH	pH Units	N/A	ISO 17025	7.0	6.6	6.8	7.2
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Heavy Metals / Metalloids

Boron (dissolved)	µg/l	10	ISO 17025	66	97	58	57
Arsenic (dissolved)	µg/l	0.15	ISO 17025	0.28	0.91	2.10	1.81
Cadmium (dissolved)	µg/l	0.02	ISO 17025	0.08	0.13	0.04	0.13
Chromium (dissolved)	µg/l	0.2	ISO 17025	3.3	1.7	9.2	3.4
Copper (dissolved)	µg/l	0.5	ISO 17025	4.0	4.1	4.6	10
Lead (dissolved)	µg/l	0.2	ISO 17025	< 0.2	< 0.2	< 0.2	< 0.2
Mercury (dissolved)	µg/l	0.05	ISO 17025	< 0.05	< 0.05	< 0.05	< 0.05
Nickel (dissolved)	µg/l	0.5	ISO 17025	11	38	5.9	14
Selenium (dissolved)	µg/l	0.6	ISO 17025	4.8	6.9	2.7	3.0
Zinc (dissolved)	µg/l	0.5	ISO 17025	13	22	6.6	43

5.3.4 Soil Samples

The soil samples obtained from the 5 window samples and 11 near surface samples can be found within the appendix with a sample location plan. The window sample soils taken from the upper and lower section of the soil matrix were obtained by GRM during the installation process. From the soil window sampling BH2 found 800 ug/kg of 1,2 Dichlorobenzene.

The 11 soil samples taken from the near surface after removing the concrete showing only trace amounts of 1,2 Dichlorobenzene (under 220ug/mg) were found at sample locations PPS1, PPS2 and PPS6, proving that the site has not been significantly impacted from the industrial usage.

Target values for 1,2 Dichlorobenzene; 23 mg/kg in residential gardens being the most conservative, this value increases for industrial and open space with significantly higher target levels. However due to the small amounts detected it is not necessary to use higher values.

All the soil sampling results can be seen within appendix C.

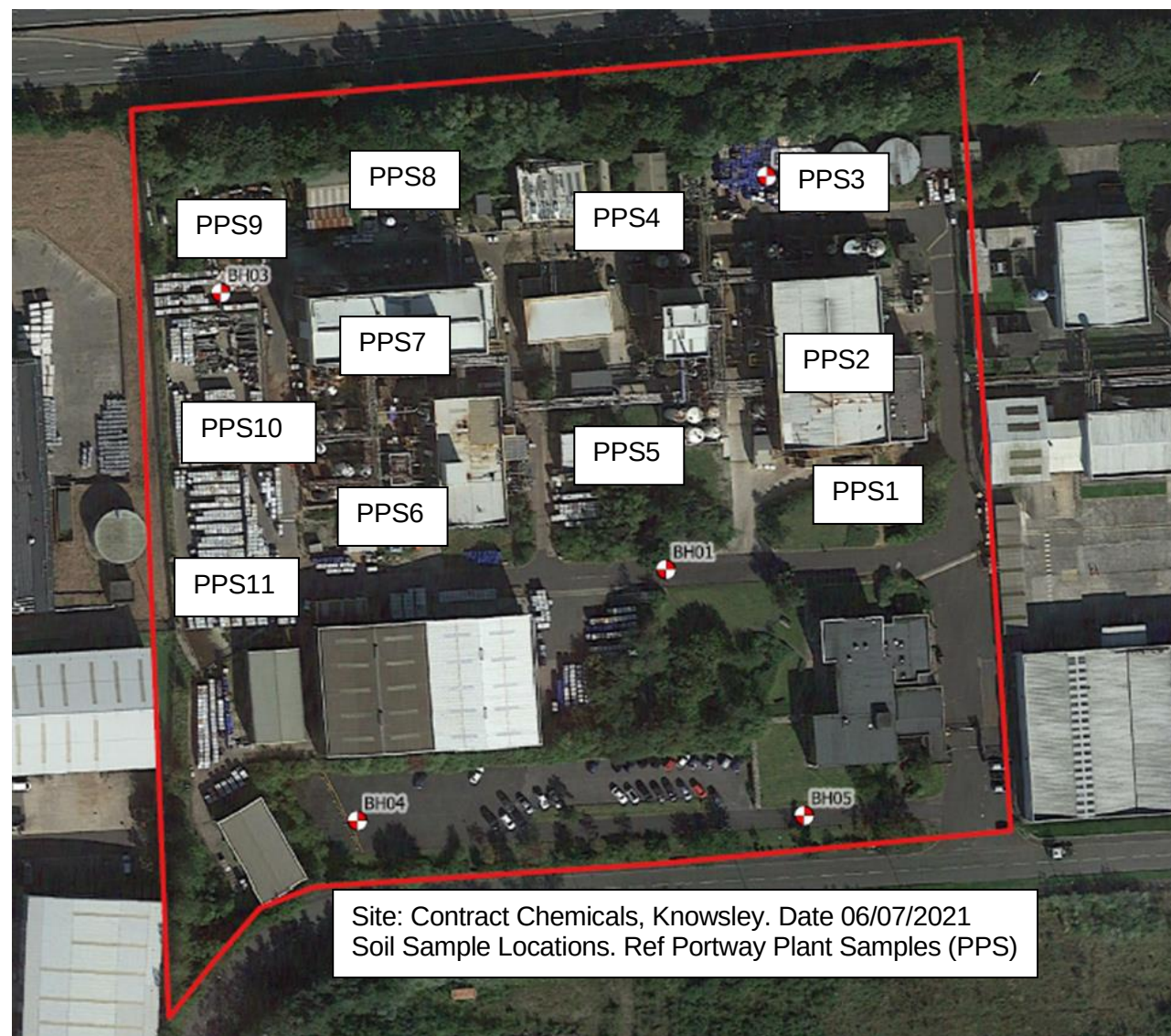
6.0 CONCLUSIONS

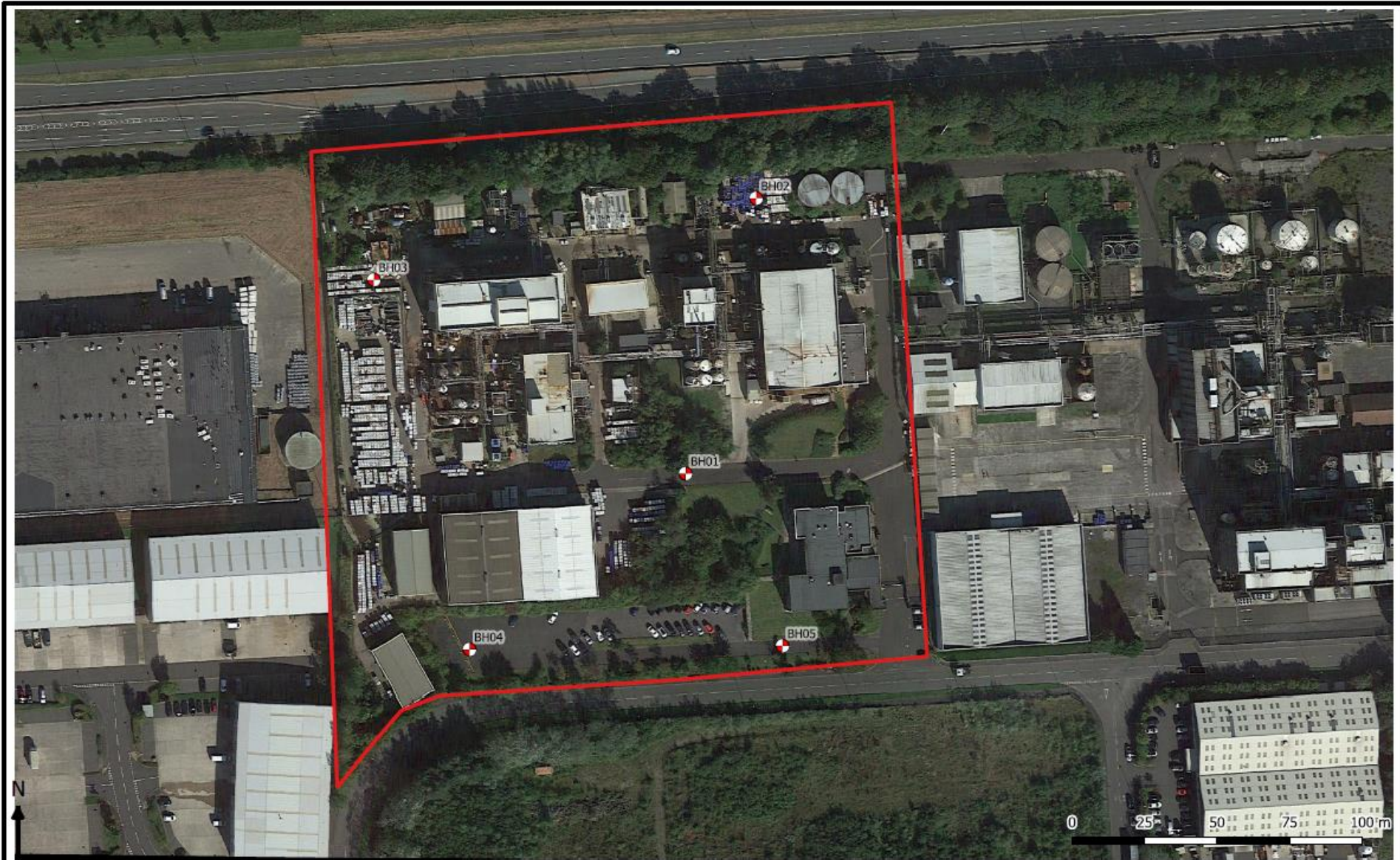
All required sampling and reporting have been undertaken by Portway, and this has been carried out and completed to a satisfactory conclusion to confirm that the site has not been impacted by the chemical works. The good housekeeping with the impermeable concrete has prevented any significant pollution to the site or the wider environment.

It is therefore considered that the site has now demonstrated compliance to enable the surrender of the permit.

This report acts as a record of tests carried out by Portway and is submitted for the validation of the site to the relevant regulatory Authorities (Environment Agency).

APPENDIX A - SITE DRAWING, SAMPLE LOCATION PLAN





NOTES:	CLIENT:	PORTWAY REMEDIATION		PROJECT NO:	P9656	DATE:	APR 2021	DESIGNER:	JB
	PROJECT:	CONTRACT CHEMICALS, KNOWSLEY		DRAWING NUMBER:	001		SCALE:		
	TITLE:	EXPLORATORY HOLE LOCATION PLAN		FINAL					
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APPENDIX B - REMOVED CHEMICAL WASTE

Storage Row	Name	Form	Quantity	Container	Size		
Flam 1	Acetone containing organic impurities (LACHRY)	Liquid	Full	IBC			
Flam 1	Acetone containing organic impurities (LACHRY)	Liquid	Full	IBC			
Flam 1	Acetone containing organic impurities (LACHRY)	Liquid	Full	IBC			
Flam 1	Acetone containing organic impurities (LACHRY)	Liquid	Full	IBC			
Flam 1	Acetone containing organic impurities (LACHRY)	Liquid	Full	IBC			
Flam 1	Acetone containing organic impurities (LACHRY)	Liquid	Full	IBC			
Flam 1	Acetone containing organic impurities (LACHRY)	Liquid	Full	IBC			
Flam 1	Acetone containing organic impurities (LACHRY)	Liquid	Full	IBC			
Flam 1	Acetone containing organic impurities (LACHRY)	Liquid	Full	IBC			
Flam 1	Acetone containing organic impurities (LACHRY)	Liquid	Full	IBC			
Flam 1	Aqueous ex Trichloroacetamide	Liquid	Full	IBC			
Flam 1	Distillation residues ex Hexyl Bromide	Liquid	Full	IBC			
Flam 1	Distillation residues ex Hexyl Bromide	Liquid	Full	IBC			
Flam 1	Distillation residues ex Hexyl Bromide	Liquid	Full	IBC			
Flam 1	Distillation residues ex Hexyl Bromide	Liquid	Full	IBC			
Flam 1	Distillation residues ex Hexyl Bromide	Liquid	Full	IBC			
Flam 1	Fores ex isopropyl-2-bromoisobutyrate	Liquid	Full	IBC			
Flam 1	Fores ex isopropyl-2-bromoisobutyrate	Liquid	Full	IBC			
Flam 1	Distillation residues ex Ethyl-2-bromobutyrate	Liquid	Full	IBC			
Flam 1	Aqueous ex Trichloroacetamide	Liquid	Full	IBC			
Flam 2	Xylene Distillations ex Irgafos	Liquid	Full	IBC			
Flam 2	Distillation foreruns ex BDCB	Sludge	Full	IBC			
Flam 2	Distillation residues ex Ethyl-2-bromobutyrate	Sludge	Full	IBC			
Flam 2	Distillation residues ex Ethyl-2-bromobutyrate	Sludge	Full	IBC			
Flam 2	Distillation residues ex Ethyl-2-bromobutyrate	Sludge	Full	IBC			
Flam 2	Distillation residues ex Ethyl-2-bromobutyrate	Sludge	Full	IBC			
Flam 2	Distillation residues ex Ethyl-2-bromobutyrate	Sludge	Full	IBC			
Flam 2	Distillation residues ex phenylacetylene	Liquid	Full	IBC			
Flam 2	Distillation residues ex phenylacetylene	Liquid	Full	IBC			
Flam 2	Distillation residues ex phenylacetylene	Liquid	Full	IBC			
Flam 2	Distillation residues ex phenylacetylene	Liquid	Full	IBC			
Flam 2	Distillation residues ex phenylacetylene	Liquid	Full	IBC			
Flam 2	Distillation residues ex phenylacetylene	Liquid	Full	IBC			
Flam 2	Heptane ex 1,4 DBBE	Liquid	Full	IBC			
Flam 2	Heptane ex 1,4 DBBE	Liquid	Full	IBC			
Flam 2	E2BB Fores	Liquid	Full	IBC			
Flam 2	E2BB Fores	Liquid	Full	IBC			
Flam 2	Ethanol ex E2BB	Liquid	Full	IBC			
Flam 2	Ethanol ex E2BB	Liquid	Full	IBC			
Flam 2	Acetic Anhydride	Liquid	Full	IBC			
Flam 2	Distillation residues ex Butyl Bromide	Liquid	Full	IBC			
Flam 2	Distillation residues ex Methyl trichloroacetatae	Liquid	Full	IBC			
Flam 3	Acetone containing organic impurities (LACHRY)	Liquid	Full	IBC			
Flam 3	Acetone containing organic impurities (LACHRY)	Liquid	Full	IBC			
Flam 3	Distillation residues ex Ethyl-2-bromobutyrate	Sludge	Full	IBC			
Flam 3	Distillation residues ex Ethyl-2-bromobutyrate	Sludge	Full	IBC			
Flam 3	Distillation residues ex Ethyl-2-bromobutyrate	Sludge	Full	IBC			
Flam 3	Distillation residues ex Ethyl-2-bromobutyrate	Sludge	Full	IBC			

Flam 3	Distillation residues ex Ethyl-2-bromobutyrate	Sludge	Full	IBC
Flam 3	Distillation residues ex Ethyl-2-bromobutyrate	Sludge	Full	IBC
Flam 3	Distillation residues ex Ethyl-2-bromobutyrate	Sludge	Full	IBC
Flam 3	Ethanol ex E2BB	Liquid	Full	IBC
Flam 3	Ethanol ex E2BB	Liquid	Full	IBC
Flam 3	Ethanol ex E2BB	Liquid	Full	IBC
Flam 3	Ethanol ex E2BB	Liquid	Full	IBC
Flam 3	Ethanol ex E2BB	Liquid	Full	IBC
Flam 3	Distillation residues ex Ethyl-2-bromobutyrate	Sludge	Full	IBC
Flam 3	Distillation residues ex Ethyl-2-bromobutyrate	Sludge	Full	IBC
Flam 3	E2BB Fores	Liquid	Full	IBC
Flam 3	1,2 Dichlorobenzene ex MOCL	Sludge	Full	IBC
Flam 3	IPA/2 Ethyl hexanoic acid	Solid	Full	IBC
Flam 3	Acetone/Methanol ex TCA	Liquid	Full	IBC
Flam 3	Toluene distillate BDCB	Sludge	Full	IBC
Flam 3	BDCB Distillation residues in toluene	Sludge	Full	IBC
Flam 3	Distillation residues ex Hunigs Base	Liquid	Full	IBC
Flam 4	Mixed acidic aqueous And organics	Liquid	Full	IBC
Flam 4	Acetone ex 1,4 dibromobutane	Liquid	Full	IBC
Flam 4	Acetone ex 1,4 dibromobutane	Liquid	Full	IBC
Flam 4	Distillation residues ex isopropyl bromide	Liquid	Full	IBC
Flam 4	Distillation residues ex Butyl Bromide	Liquid	Full	IBC
Flam 4	Propyl bromide	Liquid	Full	IBC
Flam 4	Propyl bromide	Liquid	Full	IBC
Flam 4	Distillation residues containing Methanol, MBA and methyl acetate	Liquid	Full	IBC
Flam 4	Pentyl Bromide	Liquid	Full	IBC
Flam 4	Ethanol ex E2BB	Liquid	Full	IBC
Flam 4	Aqueous ex MOCL	Liquid	Full	IBC
Flam 4	Toluene distillate BDCB	Sludge	Full	IBC
Flam 4	Crude BDCB	Sludge	Full	IBC
Flam 4	Potassium 2-ethyl hexanoate/acetone solid		Full	IBC
Flam 4	Potassium 2-ethyl hexanoate/acetone solid		Full	IBC
Flam 4	Xylene foreruns ex Irgafos	Liquid	Full	IBC
Flam 4	Xylene foreruns ex Irgafos	Liquid	Full	IBC
Flam 4	IPA/2 Ethyl hexanoic acid	Solid	Full	IBC
Flam 4	Acetone containing organic impurities (LACHRY)	Liquid	Full	IBC
Flam 4	Heptane ex 1,4 DBBE	Liquid	Full	IBC
Flam 4	Distillation residues ex Ethyl-2-bromobutyrate	Sludge	Full	IBC
Flam 4	Distillation residues ex Butyl Bromide	Liquid	Full	IBC
Flam 4	IPA/2 Ethyl hexanoic acid	Solid	Full	IBC
Flam 4	Solvent ex Labs	Liquid	11	205
Flam 4	Samples ex Labs	Mixed	4	205
1	Sludges ex interceptor	Sludge	Full	IBC
1	Sludges ex interceptor	Sludge	Full	IBC
1	Sludges ex interceptor	Sludge	Full	IBC
1	Sludges ex interceptor	Sludge	Full	IBC
1	Sludges ex interceptor	Sludge	Full	IBC
1	Sludges ex interceptor	Sludge	Full	IBC
1	Sludges ex interceptor	Sludge	Full	IBC
1	Sludges ex interceptor	Sludge	Full	IBC
1	Sludges ex interceptor	Sludge	Full	IBC
1	Sludges ex interceptor	Sludge	Full	IBC
1	Sludges ex interceptor	Sludge	Full	IBC
1	Sludges ex interceptor	Sludge	Full	IBC

1	Sludges ex interceptor	Sludge Full	IBC		
1	Sludges ex interceptor	Sludge Full	IBC		
1	Distillation residues ex 2-ethyl hexyl bromide	Liquid Full	IBC		
1	Fores ex 2-ethyl hexyl bromide	Liquid Full	IBC		
1	Fores ex 2-ethyl hexyl bromide	Liquid Full	IBC		
1	1,2 Dichlorobenzene ex MOCL	Sludge Full	IBC		
1	1,2 Dichlorobenzene ex MOCL	Sludge Full	IBC		
1	Distillation residues ex BDCB	Sludge Full	IBC		
1	Distillation residues ex BDCB	Sludge Full	IBC		
1	Caustic ex Pentyl Bromide	Liquid Full	IBC		
2	Neutralised Aqueous ex BDCB	Liquid Full	IBC		
2	Neutralised Aqueous ex BDCB	Liquid Full	IBC		
2	Neutralised Aqueous ex BDCB	Liquid Full	IBC		
2	Neutralised Aqueous ex BDCB	Liquid Full	IBC		
2	Neutralised Aqueous ex BDCB	Liquid Full	IBC		
2	Neutralised Aqueous ex BDCB	Liquid Full	IBC		
2	Neutralised Aqueous ex BDCB	Liquid Full	IBC		
2	Neutralised Aqueous ex BDCB	Liquid Full	IBC		
2	Neutralised Aqueous ex BDCB	Liquid Full	IBC		
2	Neutralised Aqueous ex BDCB	Liquid Full	IBC		
2	Neutralised Aqueous ex BDCB	Liquid Full	IBC		
2	Neutralised Aqueous ex BDCB	Liquid Full	IBC		
2	Neutralised Aqueous ex BDCB	Liquid Full	IBC		
2	Distillation residues ex BDCB + PCB's	Sludge Full	IBC		
2	Distillation residues ex BDCB + PCB's	Sludge Full	IBC		
2	Distillation residues ex BDCB + PCB's	Sludge Full	IBC		
2	Distillation residues ex BDCB + PCB's	Sludge Full	IBC		
2	Sludges ex interceptor	Sludge Full	IBC		
2	Sludges ex interceptor	Sludge Full	IBC		
2	Distillation residues ex 2ethyl hexyl bromide	Sludge Full	IBC		
2	Distillation residues ex 1,6 Dibromohexane	Sludge Full	IBC		
2	Residues ex 1,2 dichlorobenzene	Sludge Full	IBC		
3	Alkaline waste ex E2BB	Mixed Full	IBC		
3	Distillation residues ex Hexyl Bromide	Liquid Full	IBC		
3	Distillation residues ex BDCB	Sludge Full	IBC		
3	Distillation residues ex BDCB	Sludge Full	IBC		
3	Distillation residues ex BDCB	Sludge Full	IBC		
3	Distillation residues ex 2ethyl hexyl bromide	Sludge Full	IBC		
3	Distillation residues ex 2ethyl hexyl bromide	Sludge Full	IBC		
3	Caustic ex 2EHB	Liquid Full	IBC		
3	Caustic ex 2EHB	Liquid Full	IBC		
3	Fores ex 2-ethyl hexyl bromide	Mixed Full	IBC		
3	Caustic ex n Butyl Bromide	Mixed Full	IBC		
3	Distillation residues ex BDCB + PCB's	Sludge Full	IBC		
3	Distillation residues ex BDCB + PCB's	Sludge Full	IBC		
3	Distillation residues ex BDCB + PCB's	Sludge Full	IBC		
3	Treated Phos Acid ex 2EHB	Mixed Full	IBC		
3	Sludges ex interceptor	Sludge Full	IBC		
3	Sludges ex interceptor	Sludge Full	IBC		
3	Sludges ex interceptor	Sludge Full	IBC		
3	Sludges ex interceptor	Sludge Full	IBC		
3	Sludges ex interceptor	Sludge Full	IBC		
3	Sludges ex interceptor	Sludge Full	IBC		
3	Sludges ex interceptor	Sludge Full	IBC		

4	Caustic ex TDC	Liquid	Full	IBC		
4	Caustic ex TDC	Liquid	Full	IBC		
4	1,2 Dichlorobenzene ex MOCL			Sludge Full	IBC	
4	1,2 Dichlorobenzene ex MOCL			Sludge Full	IBC	
4	Sludges ex interceptor	Sludge	Full	IBC		
4	Sludges ex interceptor	Sludge	Full	IBC		
4	Sludges ex interceptor	Sludge	Full	IBC		
4	Sludges ex interceptor	Sludge	Full	IBC		
4	Sludges ex interceptor	Sludge	Full	IBC		
4	Distillation residues ex BDCB + PCB's			Sludge Full	IBC	
4	Neutralised Aqueous ex BDCB		Liquid	Full	IBC	
4	Neutralised Aqueous ex BDCB		Liquid	Full	IBC	
4	Neutralised Aqueous ex BDCB		Liquid	Full	IBC	
4	Neutralised Aqueous ex BDCB		Liquid	Full	IBC	
4	Neutralised Aqueous ex BDCB		Liquid	Full	IBC	
4	Treated Phos Acid ex 2EHB	Mixed	Full	IBC		
4	Aqueous ex Hunigs	Mixed	Full	IBC		
4	Ammonia	Liquid	Full	IBC		
4	Ammonia	Liquid	Full	IBC		
4	Ammonia	Liquid	Full	IBC		
4	Ammonia	Liquid	Full	IBC		
4	Caustic ex Bonner	Liquid	Full	IBC		
5	Treated Phos Acid ex 2EHB	Mixed	Full	IBC		
5	Treated Phos Acid ex 2EHB	Mixed	Full	IBC		
5	Treated Phos Acid ex 2EHB	Mixed	Full	IBC		
5	Treated Phos Acid ex 2EHB	Mixed	Full	IBC		
5	Treated Phos Acid ex 2EHB	Mixed	Full	IBC		
5	Treated Phos Acid ex 2EHB	Mixed	Full	IBC		
5	Treated Phos Acid ex 2EHB	Mixed	Full	IBC		
5	Treated Phos Acid ex 2EHB	Mixed	Full	IBC		
5	Treated Phos Acid ex 2EHB	Mixed	Full	IBC		
5	Treated Phos Acid ex 2EHB	Mixed	Full	IBC		
5	Treated Phos Acid ex 2EHB	Mixed	Full	IBC		
5	Treated Phos Acid ex 2EHB	Mixed	Full	IBC		
5	Treated Phos Acid ex 2EHB	Mixed	Full	IBC		
5	Treated Phos Acid ex 2EHB	Mixed	Full	IBC		
5	Treated Phos Acid ex 2EHB	Mixed	Full	IBC		
5	Sludges ex interceptor	Sludge	Full	IBC		
5	Sludges ex interceptor	Sludge	Full	IBC		
5	Sludges ex interceptor	Sludge	Full	IBC		
5	Mother Liquors	Liquid	Full	IBC		
5	Caustic ex BDCB	Liquid	Full	IBC		
5	Caustic ex BDCB	Liquid	Full	IBC		
6	Distillation residues ex BDCB	Sludge	Full	IBC		
6	Distillation residues ex o-Dichlorobenzene				Full	IBC
6	Distillation residues ex o-Dichlorobenzene				Full	IBC
6	Distillation residues ex o-Dichlorobenzene				Full	IBC
6	Distillation residues ex o-Dichlorobenzene				Full	IBC
6	Distillation residues ex o-Dichlorobenzene				Full	IBC
6	Distillation residues ex o-Dichlorobenzene				Full	IBC
6	Distillation residues ex o-Dichlorobenzene				Full	IBC
6	Distillation residues ex o-Dichlorobenzene				Full	IBC
6	Distillation residues ex o-Dichlorobenzene				Full	IBC

6	Distillation residues ex o-Dichlorobenzene			Full	IBC
6	Distillation residues ex o-Dichlorobenzene			Full	IBC
6	Distillation residues ex o-Dichlorobenzene			Full	IBC
6	Distillation residues ex o-Dichlorobenzene			Full	IBC
6	Distillation residues ex o-Dichlorobenzene			Full	IBC
6	Distillation residues ex o-Dichlorobenzene			Full	IBC
6	Distillation residues ex o-Dichlorobenzene			Full	IBC
6	Distillation residues ex MDBMP	Liquid	Full	IBC	
6	Caustic ex 2EHB	Liquid	Full	IBC	
6	Caustic ex 2EHB	Liquid	Full	IBC	
6	Caustic ex 2EHB	Liquid	Full	IBC	
6	Caustic ex 2EHB	Liquid	Full	IBC	
7	Distillation residues ex bromopropionic acid	Liquid	Full	IBC	
7	Distillation residues ex bromopropionic acid	Liquid	Full	IBC	
7	Distillation residues ex 1,6 Dibromohexane	Sludge	Full	IBC	
7	Distillation residues ex 1,6 Dibromohexane	Sludge	Full	IBC	
7	Distillation residues ex 1,6 Dibromohexane	Sludge	Full	IBC	
7	Distillation residues ex 1,6 Dibromohexane	Sludge	Full	IBC	
7	Distillation residues ex 1,6 Dibromohexane	Sludge	Full	IBC	
7	Distillation residues ex o-Dichlorobenzene		Full	IBC	
7	Distillation residues ex o-Dichlorobenzene		Full	IBC	
7	Distillation residues ex o-Dichlorobenzene		Full	IBC	
7	Aqueous alkaline ex cyclopentyl bromide	Liquid	Full	IBC	
7	Aqueous alkaline ex cyclopentyl bromide	Liquid	Full	IBC	
7	Distillation residues ex 2ethyl hexyl bromide	Sludge	Full	IBC	
7	Distillation residues ex 2ethyl hexyl bromide	Sludge	Full	IBC	
7	Aqueous ex dicyclohexylamine	Liquid	Full	IBC	
7	Aqueous ex dicyclohexylamine	Liquid	Full	IBC	
7	Distillation residues ex MDBMP	Liquid	Full	IBC	
7	Distillation residues ex MDBMP	Liquid	Full	IBC	
7	Distillation residues ex MDBMP	Liquid	Full	IBC	
7	Distillation residues ex MDBMP	Liquid	Full	IBC	
7	Distillation residues ex MDBMP	Liquid	Full	IBC	
7	Residues ex dibromobutene	Liquid	3	205	
8	Treated Phos Acid ex 2EHB	Mixed	Full	IBC	
8	Caustic ex n Butyl Bromide	Mixed	Full	IBC	
8	Caustic ex n Butyl Bromide	Mixed	Full	IBC	
8	Distillation residues ex o-Dichlorobenzene		Full	IBC	
8	Distillation residues ex o-Dichlorobenzene		Full	IBC	
8	Distillation residues ex o-Dichlorobenzene		Full	IBC	
8	Caustic ex BDCB	Liquid	Full	IBC	
8	Caustic ex BDCB	Liquid	Full	IBC	
8	Caustic ex hexyl Bromide	Liquid	Full	IBC	
8	Fores ex 2-ethyl hexyl bromide	Liquid	Full	IBC	
8	Residues ex 1,2 dichlorobenzene	Sludge	Full	IBC	
8	Residues ex 1,2 dichlorobenzene	Sludge	Full	IBC	
8	Distillation residues ex 2ethyl hexyl bromide	Sludge	Full	IBC	
8	Chimexane	Liquid	Full	IBC	
8	Chimexane	Liquid	Full	IBC	
8	Chimexane	Liquid	Full	IBC	
8	Fores ex isopropyl-2-bromoisobutyrate	Liquid	Full	IBC	
8	Fores ex isopropyl-2-bromoisobutyrate	Liquid	Full	IBC	
8	Distillation residues ex BDCB	Sludge	Full	IBC	
8	Distillation residues ex BDCB	Sludge	Full	IBC	

8	Distillation residues ex BDCB	Sludge	Full	IBC		
8	Distillation residues ex BDCB	Sludge	Full	IBC		
9	1,2 Dichlorobenzene ex MOCL		Sludge	Full	IBC	
9	1,2 Dichlorobenzene ex MOCL		Sludge	Full	IBC	
9	Fores ex isopropyl-2-bromoisobutyrate			Liquid	Full	IBC
9	Distillation residues ex BDCB	Sludge	Full	IBC		
9	Distillation residues ex BDCB	Sludge	Full	IBC		
9	Sludges ex interceptor	Sludge	Full	IBC		
9	Sludges ex interceptor	Sludge	Full	IBC		
9	Sludges ex interceptor	Sludge	Full	IBC		
9	Sludges ex interceptor	Sludge	Full	IBC		
9	Sludges ex interceptor	Sludge	Full	IBC		
9	Sludges ex interceptor	Sludge	Full	IBC		
9	Sludges ex interceptor	Sludge	Full	IBC		
9	Distillation residues ex BDCB	Sludge	Full	IBC		
9	Caustic ex n Butyl Bromide	Mixed	Full	IBC		
9	Neutralised Aqueous ex BDCB		Liquid	Full	IBC	
9	1,2 Dichlorobenzene ex MOCL		Sludge	Full	IBC	
9	1,2 Dichlorobenzene ex MOCL		Sludge	Full	IBC	
9	Caustic ex n Butyl Bromide	Mixed	Full	IBC		
9	Caustic ex 2EHB	Liquid	Full	IBC		
9	Caustic ex 2EHB	Liquid	Full	IBC		
9	Caustic ex 2EHB	Liquid	Full	IBC		
9	Distillation residues ex MDBMP		Liquid	Full	IBC	
10	Alkaline waste ex E2BB	Mixed	Full	IBC		
10	Alkaline waste ex E2BB	Mixed	Full	IBC		
10	Alkaline waste ex E2BB	Mixed	Full	IBC		
10	Alkaline waste ex E2BB	Mixed	Full	IBC		
10	Alkaline waste ex E2BB	Mixed	Full	IBC		
10	Alkaline waste ex E2BB	Mixed	Full	IBC		
10	Alkaline waste ex E2BB	Mixed	Full	IBC		
10	Alkaline waste ex E2BB	Mixed	Full	IBC		
10	Alkaline waste ex E2BB	Mixed	Full	IBC		
10	Alkaline waste ex E2BB	Mixed	Full	IBC		
10	Alkaline waste ex E2BB	Mixed	Full	IBC		
10	Alkaline waste ex E2BB	Mixed	Full	IBC		
10	Alkaline waste ex E2BB	Mixed	Full	IBC		
10	Alkaline waste ex E2BB	Mixed	Full	IBC		
10	Alkaline waste ex E2BB	Mixed	Full	IBC		
10	Alkaline waste ex E2BB	Mixed	Full	IBC		
10	Alkaline waste ex E2BB	Mixed	Full	IBC		
10	Alkaline waste ex E2BB	Mixed	Full	IBC		
10	Alkaline waste ex E2BB	Mixed	Full	IBC		
10	Caustic ex hexyl Bromide	Mixed	Full	IBC		
10	Caustic ex Bonner	Mixed	Full	IBC		
10	Caustic ex butyl bromide	Liquid	Full	IBC		
10	Water ex Irgafos	Liquid	Full	IBC		
10	Water ex Irgafos	Liquid	Full	IBC		
10	Caustic ex TDC	Liquid	Full	IBC		
10	Caustic ex 1,6 DBH	Liquid	Full	IBC		
11	Distillation residues ex 1,6 Dibromohexane			Liquid	Full	IBC
11	Distillation residues ex 1,6 Dibromohexane			Liquid	Full	IBC
11	Distillation residues ex 1,6 Dibromohexane			Liquid	Full	IBC
11	Residues ex 1,2 dichlorobenzene		Sludge	Full	IBC	
11	Distillation residues ex BDCB + PCB's			Sludge	Full	IBC
11	Distillation residues ex BDCB + PCB's			Sludge	Full	IBC
11	Distillation residues ex BDCB + PCB's			Sludge	Full	IBC
11	Distillation residues ex BDCB + PCB's			Sludge	Full	IBC

11	Distillation residues ex BDCB + PCB's	Sludge	Full	IBC	
11	Distillation residues ex BDCB + PCB's	Sludge	Full	IBC	
11	Distillation residues ex BDCB + PCB's	Sludge	Full	IBC	
11	Distillation residues ex BDCB + PCB's	Sludge	Full	IBC	
11	Distillation residues ex BDCB + PCB's	Sludge	Full	IBC	
11	Distillation residues ex BDCB + PCB's	Sludge	Full	IBC	
11	Distillation residues ex BDCB (road Barrel France)	Sludge	Full	IBC	IBC
11	Distillation residues ex BDCB (road Barrel France)	Sludge	Full	IBC	IBC
11	Distillation residues ex 2ethyl hexyl bromide	Sludge	Full	IBC	
11	Distillation residues ex 1,4 Dibromobutene	Sludge	Full	IBC	
11	Mixed Halogenated (Lachry)	Liquid	Full	IBC	
11	Caustic ex n Butyl Bromide	Mixed	Full	IBC	
11	Distillation residues ex MDBMP	Liquid	Full	IBC	
11	Distillation residues ex o-Dichlorobenzene	Liquid	Full	IBC	
12	Distillation residues ex BDCB + PCB's	Sludge	Full	IBC	
12	Distillation residues ex BDCB + PCB's	Sludge	Full	IBC	
12	Distillation residues ex BDCB + PCB's	Sludge	Full	IBC	
12	Distillation residues ex BDCB + PCB's	Sludge	Full	IBC	
12	Distillation residues ex BDCB + PCB's	Sludge	Full	IBC	
12	Distillation residues ex BDCB + PCB's	Sludge	Full	IBC	
12	Distillation residues ex BDCB + PCB's	Sludge	Full	IBC	
12	Distillation residues ex BDCB + PCB's	Sludge	Full	IBC	
12	Distillation residues ex BDCB + PCB's	Sludge	Full	IBC	
12	Distillation residues ex BDCB + PCB's	Sludge	Full	IBC	
12	Distillation residues ex BDCB + PCB's	Sludge	Full	IBC	
12	Distillation residues ex BDCB + PCB's	Sludge	Full	IBC	
12	Distillation residues ex BDCB + PCB's	Sludge	Full	IBC	
12	Distillation residues ex BDCB + PCB's	Sludge	Full	IBC	
12	Residues ex 1,2 dichlorobenzene	Sludge	Full	IBC	
12	Residues ex 1,2 dichlorobenzene	Sludge	Full	IBC	
12	Distillation residues ex o-Dichlorobenzene	Liquid	Full	IBC	
12	Distillation residues ex 2ethyl hexyl bromide	Sludge	Full	IBC	
12	Distillation residues ex 1,6 Dibromohexane	Liquid	Full	IBC	
12	Distillation residues ex 1,6 Dibromohexane	Liquid	Full	IBC	
12	Treated Phos Acid ex 2EHB	Mixed	Full	IBC	
12	Treated Phos Acid ex 2EHB	Mixed	Full	IBC	
12	Treated Phos Acid ex 2EHB	Mixed	Full	IBC	
13	Distillation residues ex o-Dichlorobenzene	Liquid	Full	IBC	
13	Distillation residues ex o-Dichlorobenzene	Liquid	Full	IBC	
13	Distillation residues ex o-Dichlorobenzene	Liquid	Full	IBC	
13	Distillation residues ex BDCB + PCB's	Sludge	Full	IBC	
13	Distillation residues ex BDCB + PCB's	Sludge	Full	IBC	
13	Caustic ex n Butyl Bromide	Mixed	Full	IBC	
13	Caustic ex n Butyl Bromide	Mixed	Full	IBC	
13	Caustic ex n Butyl Bromide	Mixed	Full	IBC	
13	Distillation residues ex MDBMP	Liquid	Full	IBC	
13	Treated Phos Acid ex 2EHB	Mixed	Full	IBC	
13	Caustic ex TDC	Liquid	Full	IBC	
13	Caustic ex TDC	Liquid	Full	IBC	
13	Liquid	Full	IBC		
13	Liquid	Full	IBC		
13	Aqueous ex Hunigs	Liquid	Full	IBC	
13	Aqueous ex 747 (DCB and Chloroform)	Liquid	Full	IBC	
13	1,2 Dichlorobenzene ex MOCL	Sludge	Full	IBC	
13	1,2 Dichlorobenzene ex MOCL	Sludge	Full	IBC	

13	1,2 Dichlorobenzene ex MOCL	Sludge Full	IBC
13	1,2 Dichlorobenzene ex MOCL	Sludge Full	IBC
13	1,2 Dichlorobenzene ex MOCL	Sludge Full	IBC
13	1,2 Dichlorobenzene ex MOCL	Sludge Full	IBC
14	Treated Phos Acid ex 2EBH	Mixed Full	IBC
14	Treated Phos Acid ex 2EBH	Mixed Full	IBC
14	Treated Phos Acid ex 2EBH	Mixed Full	IBC
14	Treated Phos Acid ex 2EBH	Mixed Full	IBC
14	Treated Phos Acid ex 2EBH	Mixed Full	IBC
14	Treated Phos Acid ex 2EBH	Mixed Full	IBC
14	Treated Phos Acid ex 2EBH	Mixed Full	IBC
14	Treated Phos Acid ex 2EBH	Mixed Full	IBC
14	Treated Phos Acid ex 2EBH	Mixed Full	IBC
14	Treated Phos Acid ex 2EBH	Mixed Full	IBC
14	Treated Phos Acid ex 2EBH	Mixed Full	IBC
14	Treated Phos Acid ex 2EBH	Mixed Full	IBC
14	Treated Phos Acid ex 2EBH	Mixed Full	IBC
14	Treated Phos Acid ex 2EBH	Mixed Full	IBC
14	Treated Phos Acid ex 2EBH	Mixed Full	IBC
14	Treated Phos Acid ex 2EBH	Mixed Full	IBC
14	Treated Phos Acid ex 2EBH	Mixed Full	IBC
14	Treated Phos Acid ex 2EBH	Mixed Full	IBC
14	Treated Phos Acid ex 2EBH	Mixed Full	IBC
14	Treated Phos Acid ex 2EBH	Mixed Full	IBC
14	Treated Phos Acid ex 2EBH	Mixed Full	IBC
14	Treated Phos Acid ex 2EBH	Mixed Full	IBC
14	Distillation residues ex BDCB + PCB's	Sludge Full	IBC
14	Distillation residues ex BDCB + PCB's	Sludge Full	IBC
14	Caustic ex BDCB	Liquid Full	IBC
15	o-DCB residues	Sludge Part	IBC
15	o-DCB residues	Sludge Part	IBC
15	o-DCB residues	Sludge Part	IBC
15	o-DCB residues	Sludge Part	IBC
15	Solids ex Hunigs	Solid Part	IBC
15	Solids ex Hunigs	Solid Part	IBC
15	Solids ex Hunigs	Solid Part	IBC
15	Solids ex Hunigs	Solid Part	IBC
15	Caustic solids ex MOCL	Solid Part	IBC
15	Caustic ex TDC	Liquid Part	IBC
16	Solids ex Hunigs	Solid Part	IBC
16	Solids ex Hunigs	Solid Part	IBC
16	Solids ex Hunigs	Solid Part	IBC
16	Solids ex Hunigs	Solid Part	IBC
16	Solids ex Hunigs	Solid Part	IBC
16	Solids ex Hunigs	Solid Part	IBC
16	Solids ex Hunigs	Solid Part	IBC
16	Caustic solids ex MOCL	Solid Part	IBC
16	Caustic solids ex MOCL	Solid Part	IBC
16	Caustic ex TDC	Liquid Part	IBC
16	Caustic ex TDC	Liquid Part	IBC
17	Sulphuric/Phosphorous ex Hexyl Bromide	Liquid Full	IBC
17	Sulphuric/Sulphurous ex Butyl Bromide	Liquid Full	IBC
17	Sulphuric/Sulphurous ex Butyl Bromide	Liquid Full	IBC
17	Sulphuric/Sulphurous ex Butyl Bromide	Liquid Full	IBC
17	Sulphuric/Sulphurous ex Butyl Bromide	Liquid Full	IBC
17	Sulphuric/Sulphurous ex Butyl Bromide	Liquid Full	IBC
17	Sulphuric/Sulphurous ex Butyl Bromide	Liquid Full	IBC
17	Sulphuric/Sulphurous ex Butyl Bromide	Liquid Full	IBC

17	Sulphuric/Phosphorous ex Pentyl Bromide	Liquid	Full	IBC	
17	HBr ex High Vac	Liquid	Full	IBC	
18	Sulphuric/Sulphurous ex Butyl Bromide	Liquid	Full	IBC	
18	Sulphuric/Sulphurous ex Butyl Bromide	Liquid	Full	IBC	
18	Sulphuric/Sulphurous ex Butyl Bromide	Liquid	Full	IBC	
18	Sulphuric/Sulphurous ex Butyl Bromide	Liquid	Full	IBC	
18	Sulphuric/Sulphurous ex Butyl Bromide	Liquid	Full	IBC	
18	Sulphuric/Phosphorous ex Hexyl Bromide	Liquid	Full	IBC	
18	HCL ex Scrubber	Liquid	Full	IBC	
18	Phosphorous acid and Bromine	Liquid	Full	IBC	
18	Phosphorous acid and Bromine	Liquid	Full	IBC	
18	Packaging c/w thionyl chloride	Solid	Full	IBC	
19	HCL ex 747	Liquid	Full	IBC	
19	Sulphuric/Sulphurous ex Butyl Bromide	Liquid	Full	IBC	
19	Sulphuric/Sulphurous ex Butyl Bromide	Liquid	Full	IBC	
19	Sulphuric/Sulphurous ex Butyl Bromide	Liquid	Full	IBC	
19	Sulphuric/Sulphurous ex Butyl Bromide	Liquid	Full	IBC	
19	HCL ex Absorber	Liquid	Full	IBC	
19	Distillation residues ex 1,6 Dibromohexane	Liquid	Full	IBC	
19	Sulphuric/Phosphorous ex Hexyl Bromide	Liquid	Full	IBC	
19	Sulphuric/Sulphurous ex Butyl Bromide	Liquid	Full	IBC	
19	Sulphuric acid ex Absorbers	Liquid	Full	IBC	
20	Sulphuric/Phosphorous ex Hexyl Bromide	Liquid	Full	IBC	
20	Sulphuric/Phosphorous ex Hexyl Bromide	Liquid	Full	IBC	
20	Sulphuric/Sulphurous ex Butyl Bromide	Liquid	Full	IBC	
20	Sulphuric/Sulphurous ex Butyl Bromide	Liquid	Full	IBC	
20	Sulphuric/Sulphurous ex Butyl Bromide	Liquid	Full	IBC	
20	Sodium Hydrogen Sulphate ex DCHAN (NOX!)	Liquid	Full	IBC	
20	Sodium Hydrogen Sulphate ex DCHAN (NOX!)	Liquid	Full	IBC	
20	Sodium Hydrogen Sulphate ex DCHAN (NOX!)	Liquid	Full	IBC	
20	Sodium Hydrogen Sulphate ex DCHAN (NOX!)	Liquid	Full	IBC	
20	Sodium Hydrogen Sulphate ex DCHAN (NOX!)	Liquid	Full	IBC	
21	Sulphuric/Sulphurous ex Butyl Bromide	Liquid	Full	IBC	
21	Phosphorous acid and Bromine	Liquid	Full	IBC	
21	Phosphorous acid and Bromine	Liquid	Full	IBC	
21	Sulphuric/Phosphorous ex Pentyl Bromide	Liquid	Full	IBC	
21	Phosphoric/Phosphorous ex Pentyl Bromide	Liquid	Full	IBC	
21	Sulphuric acid ex Absorbers	Liquid	Full	IBC	
21	Sulphuric acid ex Absorbers	Liquid	Full	IBC	
21	Aqueous aluminium chloride	Liquid	Full	IBC	
21	Acidic aqueous washings	Liquid	Full	IBC	
22	Treated Phos Acid ex 2EHB	Mixed	Full	IBC	
22	Treated Phos Acid ex 2EHB	Mixed	Full	IBC	
22	Treated Phos Acid ex 2EHB	Mixed	Full	IBC	
22	Treated Phos Acid ex 2EHB	Mixed	Full	IBC	
22	DCB ex MOCL	Mixed	Full	IBC	
22	Sulphuric/Phosphorous ex Pentyl Bromide	Liquid	Full	IBC	
22	Sulphuric/Sulphurous ex Butyl Bromide	Liquid	Full	IBC	
22	Sulphuric/Sulphurous ex Butyl Bromide	Liquid	Full	IBC	
22	Mixed	Full	IBC		
22	Mixed	Full	IBC		
23	Treated Phos Acid ex 2EHB	Mixed	Full	IBC	
23	Treated Phos Acid ex 2EHB	Mixed	Full	IBC	
23	Treated Phos Acid ex 2EHB	Mixed	Full	IBC	

23	Treated Phos Acid ex 2EHB	Mixed	Full	IBC			
23	Treated Phos Acid ex 2EHB	Mixed	Full	IBC			
23	Treated Phos Acid ex 2EHB	Mixed	Full	IBC			
23	Treated Phos Acid ex 2EHB	Mixed	Full	IBC			
23	Treated Phos Acid ex 2EHB	Mixed	Full	IBC			
23	Treated Phos Acid ex 2EHB	Mixed	Full	IBC			
23	Treated Phos Acid ex 2EHB	Mixed	Full	IBC			
24	Treated Phos Acid ex 2EHB	Mixed	Full	IBC			
24	Treated Phos Acid ex 2EHB	Mixed	Full	IBC			
24	Treated Phos Acid ex 2EHB	Mixed	Full	IBC			
24	Treated Phos Acid ex 2EHB	Mixed	Full	IBC			
24	Treated Phos Acid ex 2EHB	Mixed	Full	IBC			
24	Treated Phos Acid ex 2EHB	Mixed	Full	IBC			
24	Treated Phos Acid ex 2EHB	Mixed	Full	IBC			
24	Treated Phos Acid ex 2EHB	Mixed	Full	IBC			
24	Treated Phos Acid ex 2EHB	Mixed	Full	IBC			
24	Treated Phos Acid ex 2EHB	Mixed	Full	IBC			
25	Dimethylaminopropylmethacrylamide	Liquid	Full	4 x 205			
25	Benzyl Bromide	Liquid	Full	4 x 205			
25	Sulphur dioxide/HCl	Liquid	Full	3 x 205			
26	o-DCB residues	Sludge	Part	IBC			
26	Sludges ex interceptor	Sludge	Full	IBC			
26	Sludges ex interceptor	Sludge	Full	IBC			
26	Sludges ex interceptor	Sludge	Full	IBC			
26	Sludges ex interceptor	Sludge	Full	IBC			
26	Sludges ex interceptor	Sludge	Full	IBC			
26	Sludges ex interceptor	Sludge	Full	IBC			
26	Sludges ex interceptor	Sludge	Full	IBC			
26	Sludges ex interceptor	Sludge	Full	IBC			
26	Sludges ex interceptor	Sludge	Full	IBC			
27	Caustic ex TDC	Liquid	Full	IBC			
27	Caustic ex TDC	Liquid	Full	IBC			
27	Water ex BDCB	Liquid	Full	IBC			
27	Water ex BDCB	Liquid	Full	IBC			
27	Mixed Aq and organic	Liquid	Full	IBC			
27	Mixed Aq and organic	Liquid	Full	IBC			
27	Caustic ex Phenylacetylene	Liquid	Full	IBC			
27	Distillation residues ex 1,4 Dibromobutene	Liquid	Full	IBC			
27	Distillation residues ex 1,4 Dibromobutene	Liquid	Full	IBC			
27	Caustic ex Br Scrubber	Liquid	Full	IBC			
28	1,2 Dichlorobenzene ex MOCL	Liquid	Full	IBC			
28	1,2 Dichlorobenzene ex MOCL	Liquid	Full	IBC			
28	Water ex Irgafos	Liquid	Full	IBC			
28	Alkaline waste ex E2BB	Liquid	Full	IBC			
28	Caustic ex TDC	Liquid	Full	IBC			
28	Distillation residues ex MDBMP	Liquid	Full	IBC			
28	Aqueous ex DCHAN (contains dicyclohexylamine)	Liquid	Full	IBC			
28	Aqueous ex DCHAN (contains dicyclohexylamine)	Liquid	Full	IBC			
28	Aqueous ex DCHAN (contains dicyclohexylamine)	Liquid	Full	IBC			
28	Aqueous ex DCHAN (contains dicyclohexylamine)	Liquid	Full	IBC			
29	Caustic ex butyl bromide	Liquid	Full	IBC			
29	1,2 Dichlorobenzene ex MOCL	Liquid	Full	IBC			
29	1,2 Dichlorobenzene ex MOCL	Liquid	Full	IBC			
29	Alkaline waste ex E2BB	Liquid	Full	IBC			

W4	Aqueous ex Hunigs	Liquid	Full	IBC
W4	Aqueous ex Hunigs	Liquid	Full	IBC
W4	Aqueous ex Hunigs	Liquid	Full	IBC
W4	Aqueous ex Hunigs	Liquid	Full	IBC
W4	Aqueous ex Hunigs	Liquid	Full	IBC
W4	Aqueous ex Hunigs	Liquid	Full	IBC

APPENDIX C - ANALYTICAL TEST RESULTS SOIL AND WATERS



Jon Berry
Portway Plant Ltd
Holly Farm
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Analytical Report Number : 21-70049

Project / Site name:	Contract Chemicals	Samples received on:	21/04/2021
Your job number:	P9656	Samples instructed on/ Analysis started on:	21/04/2021
Your order number:		Analysis completed by:	28/04/2021
Report Issue Number:	1	Report issued on:	28/04/2021
Samples Analysed:	10 soil samples		

Signed: 

Zina Abdul Razzak
Senior Quality Specialist
For & on behalf of i2 Analytical Ltd.

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

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

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

soils - 4 weeks from reporting
leachates - 2 weeks from reporting
waters - 2 weeks from reporting
asbestos - 6 months from reporting

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



Analytical Report Number: 21-70049
Project / Site name: Contract Chemicals

Lab Sample Number	1844595	1844596	1844597	1844598	1844599
Sample Reference	BH01	BH01	BH02	BH02	BH03
Sample Number	P9656	P9656	P9656	P9656	P9656
Depth (m)	0.50	5.00	0.60	5.00	0.60
Date Sampled	08/04/2021	08/04/2021	08/04/2021	08/04/2021	08/04/2021
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		
Stone Content	%	0.1	NONE	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	10	12
Total mass of sample received	kg	0.001	NONE	1.5	1.7

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	8.4	8.6	8.2	8.0	7.6
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dibenzo(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
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Heavy Metals / Metalloids

Arsenic (aqueous regia extractable)	mg/kg	1	MCERTS	5.5	4.8	3.5	4.3	7.6
Boron (water soluble)	mg/kg	0.2	MCERTS	0.5	0.3	0.8	0.2	0.5
Cadmium (aqueous regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (aqueous regia extractable)	mg/kg	1	MCERTS	20	16	10	15	30
Copper (aqueous regia extractable)	mg/kg	1	MCERTS	10	15	14	8.9	12
Lead (aqueous regia extractable)	mg/kg	1	MCERTS	12	5.8	9.0	6.6	50
Mercury (aqueous regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqueous regia extractable)	mg/kg	1	MCERTS	19	16	12	14	26
Selenium (aqueous regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium (aqueous regia extractable)	mg/kg	1	MCERTS	19	17	13	15	27
Zinc (aqueous regia extractable)	mg/kg	1	MCERTS	27	26	69	39	29

Monoaromatics & Oxygenates

Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >ECS - EC6	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >ECS - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >ECS - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001

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Iss No 21-70049-1 Contract Chemicals P9656.XLSM

Page 2 of 11



Analytical Report Number: 21-70049
Project / Site name: Contract Chemicals

Lab Sample Number	1844595	1844596	1844597	1844598	1844599
Sample Reference	BH01	BH01	BH02	BH02	BH03
Sample Number	P9656	P9656	P9656	P9656	P9656
Depth (m)	0.50	5.00	0.60	5.00	0.60
Date Sampled	08/04/2021	08/04/2021	08/04/2021	08/04/2021	08/04/2021
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Acceptable level		
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	4.4	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	11	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	90	< 8.0
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	110	< 10
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	< 0.001	< 0.001
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10	< 10
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	120	< 10
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	120	< 10

VOCs					
Chloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0
Chloroethane	µg/kg	1	NONE	< 1.0	< 1.0
Bromomethane	µg/kg	1	ISO 17025	< 1.0	< 1.0
Vinyl Chloride	µg/kg	1	NONE	< 1.0	< 1.0
Trichlorofluoromethane	µg/kg	1	NONE	< 1.0	< 1.0
1,1-Dichloroethane	µg/kg	1	NONE	< 1.0	< 1.0
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	< 1.0	< 1.0
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0
1,1-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0
2,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	< 1.0
Trichloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0
1,1,1-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0
1,2-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0
1,1-Dichloropropene	µg/kg	1	MCERTS	< 1.0	< 1.0
Trans-1,2-dichloroethene	µg/kg	1	NONE	< 1.0	< 1.0
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0
Tetrachloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0
1,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	< 1.0
Trichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0
Dibromomethane	µg/kg	1	MCERTS	< 1.0	< 1.0
Bromodichloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0
1,1,2-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0
1,3-Dichloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0
Dibromochloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0
Tetrachloroethene	µg/kg	1	NONE	< 1.0	< 1.0
1,2-Dibromoethane	µg/kg	1	ISO 17025	< 1.0	< 1.0
Chlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0
p & m-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0
Styrene	µg/kg	1	MCERTS	< 1.0	< 1.0
Tribromomethane	µg/kg	1	NONE	< 1.0	< 1.0
o-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0

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Iss No 21-70049-1 Contract Chemicals P9656.XLSM
Page 3 of 11



Analytical Report Number: 21-70049
Project / Site name: Contract Chemicals

Lab Sample Number				1844595	1844596	1844597	1844598	1844599
Sample Reference				BH01	BH01	BH02	BH02	BH03
Sample Number				P9656	P9656	P9656	P9656	P9656
Depth (m)				0.50	5.00	0.60	5.00	0.60
Date Sampled				08/04/2021	08/04/2021	08/04/2021	08/04/2021	08/04/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Unit	Limit of detection	Accreditation Scheme					
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
n-Propylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2-Chlorotoluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Chlorotoluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
tert-Butylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
sec-Butylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p-Isopropyltoluene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	800	< 1.0	< 1.0
1,4-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Butylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Hexachlorobutadiene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

SVOCs

Aniline	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Phenol	mg/kg	0.2	ISO 17025	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
2-Chlorophenol	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Methylphenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Hexachloroethane	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nitrobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
4-Methylphenol	mg/kg	0.2	NONE	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Isophorone	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
2-Nitrophenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
4-Chloroaniline	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachlorobutadiene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
2-Methylnaphthalene	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Chloronaphthalene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dimethylphthalate	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Dibenzofuran	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2

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Iss No 21-70049-1 Contract Chemicals P9656.XLSM
Page 4 of 11



Analytical Report Number: 21-70049
Project / Site name: Contract Chemicals

Lab Sample Number				1844595	1844596	1844597	1844598	1844599
Sample Reference				BH01	BH01	BH02	BH02	BH03
Sample Number				P9656	P9656	P9656	P9656	P9656
Depth (m)				0.50	5.00	0.60	5.00	0.60
Date Sampled				08/04/2021	08/04/2021	08/04/2021	08/04/2021	08/04/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Scheme					
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Diethyl phthalate	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
4-Nitroaniline	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Azobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Hexachlorobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Carbazole	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Dibutyl phthalate	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Anthraquinone	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dibenzo(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

U/S = Unsuitable Sample I/S = Insufficient Sample



Analytical Report Number: 21-70049
Project / Site name: Contract Chemicals

Lab Sample Number	1844600	1844601	1844602	1844603	1844604
Sample Reference	BH03	BH04	BH04	BH05	BH05
Sample Number	P9656	P9656	P9656	P9656	P9656
Depth (m)	4.00	0.40	2.00	0.70	2.50
Date Sampled	08/04/2021	09/04/2021	08/04/2021	09/04/2021	09/04/2021
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accuracy	Standard	Standard
Stone Content	%	0.1	NONE	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	15	11
Total mass of sample received	kg	0.001	NONE	1.7	1.2

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	8.3	7.9	6.5	8.1	4.9
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
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Heavy Metals / Metalloids

Arsenic (aqueous extractable)	mg/kg	1	MCERTS	5.3	5.5	2.2	4.6	6.2
Boron (water soluble)	mg/kg	0.2	MCERTS	0.4	0.4	0.3	0.3	0.3
Cadmium (aqueous extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	0.7
Chromium (aqueous extractable)	mg/kg	1	MCERTS	18	15	21	12	16
Copper (aqueous extractable)	mg/kg	1	MCERTS	12	9.6	4.0	8.7	9.9
Lead (aqueous extractable)	mg/kg	1	MCERTS	5.2	11	8.5	44	6.7
Mercury (aqueous extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqueous extractable)	mg/kg	1	MCERTS	20	15	7.5	7.8	20
Selenium (aqueous extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	1.1	< 1.0
Vanadium (aqueous extractable)	mg/kg	1	MCERTS	19	16	22	18	23
Zinc (aqueous extractable)	mg/kg	1	MCERTS	25	36	19	94	29

Monoaromatics & Oxygenates

Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001

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Iss No 21-70049-1 Contract Chemicals P9656.XLSM
Page 6 of 11



Analytical Report Number: 21-70049
Project / Site name: Contract Chemicals

Lab Sample Number				1844600	1844601	1844602	1844603	1844604
Sample Reference				BH03	BH04	BH04	BH05	BH05
Sample Number				P9656	P9656	P9656	P9656	P9656
Depth (m)				4.00	0.40	2.00	0.70	2.50
Date Sampled				08/04/2021	09/04/2021	08/04/2021	09/04/2021	09/04/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accuracy Statement					
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	9.8	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	25	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	< 8.0	46	< 8.0	220	< 8.0
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	50	< 10	250	< 10
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	8.0
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	12
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	< 10	67	< 10	30	40
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	72	< 10	30	60

VOCs								
Chloroethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromoethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl Chloride	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichlorofluoromethane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cis-1,2-dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloropropane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,2-dichloroethane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromomethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromochloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tribromomethane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

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Iss No 21-70049-1 Contract Chemicals P9656.XLSM

Page 7 of 11



Analytical Report Number: 21-70049
Project / Site name: Contract Chemicals

Lab Sample Number	1844600	1844601	1844602	1844603	1844604
Sample Reference	BH03	BH04	BH04	BH05	BH05
Sample Number	P9656	P9656	P9656	P9656	P9656
Depth (m)	4.00	0.40	2.00	0.70	2.50
Date Sampled	08/04/2021	09/04/2021	08/04/2021	09/04/2021	09/04/2021
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Unit	Limit of detection	Accreditation Scheme		
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0
Isopropylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0
Bromobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0
n-Propylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0
2-Chlorotoluene	µg/kg	1	MCERTS	< 1.0	< 1.0
4-Chlorotoluene	µg/kg	1	MCERTS	< 1.0	< 1.0
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0
tert-Butylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0
sec-Butylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0
p-Isopropyltoluene	µg/kg	1	ISO 17025	< 1.0	< 1.0
1,2-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0
1,4-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0
Butylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0
Hexachlorobutadiene	µg/kg	1	MCERTS	< 1.0	< 1.0
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0

SVOCs

Aniline	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Phenol	mg/kg	0.2	ISO 17025	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
2-Chlorophenol	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Methylphenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Hexachloroethane	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nitrobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
4-Methylphenol	mg/kg	0.2	NONE	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Isophorone	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
2-Nitrophenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
4-Chloroaniline	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachlorobutadiene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
2-Methylnaphthalene	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Chloronaphthalene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dimethylphthalate	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Dibenzofuran	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2

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Iss No 21-70049-1 Contract Chemicals P9656.XLSM
Page 8 of 11



Analytical Report Number: 21-70049
Project / Site name: Contract Chemicals

Lab Sample Number				1844600	1844601	1844602	1844603	1844604
Sample Reference				BH03	BH04	BH04	BH05	BH05
Sample Number				P9656	P9656	P9656	P9656	P9656
Depth (m)				4.00	0.40	2.00	0.70	2.50
Date Sampled				08/04/2021	09/04/2021	08/04/2021	09/04/2021	09/04/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Scheme					
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Diethyl phthalate	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
4-Nitroaniline	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Azobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Hexachlorobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Carbazole	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Dibutyl phthalate	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Anthraquinone	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

U/S = Unsuitable Sample I/S = Insufficient Sample



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Analytical Report Number : 21-72714

Project / Site name:	Contract Chemicals	Samples received on:	04/05/2021
Your job number:		Samples instructed on/ Analysis started on:	04/05/2021
Your order number:		Analysis completed by:	13/05/2021
Report Issue Number:	1	Report issued on:	13/05/2021
Samples Analysed:	4 water samples		

Signed: *A. Czerwińska*

Agnieszka Czerwińska
Technical Reviewer (Reporting Team)
For & on behalf of i2 Analytical Ltd.

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

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

Standard sample disposal times, unless otherwise agreed with the laboratory, are :	soils	- 4 weeks from reporting
	leachates	- 2 weeks from reporting
	waters	- 2 weeks from reporting
	asbestos	- 6 months from reporting

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

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



Analytical Report Number: 21-72714
Project / Site name: Contract Chemicals

Lab Sample Number	1858591	1858592	1858593	1858594
Sample Reference	BH4	BH5	BH1	BH3
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	2.00	2.00	2.00	2.00
Date Sampled	27/04/2021	27/04/2021	29/04/2021	29/04/2021
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Water Analysis)	Units	Limit of detection	Accreditation Status	

General Inorganics

pH	pH Units	N/A	ISO 17025	7.0	6.6	6.8	7.2
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Speciated PAHs

Naphthalene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01
Fluorene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01
Phenanthrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01
Anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01
Fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01
Pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01
Chrysene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(b)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(k)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01
Indeno(1,2,3-cd)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01
Dibenz(a,h)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(ghi)perylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01

Total PAH

Total EPA-16 PAHs	µg/l	0.16	ISO 17025	< 0.16	< 0.16	< 0.16	< 0.16
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Heavy Metals / Metalloids

Boron (dissolved)	µg/l	10	ISO 17025	66	97	58	57
Arsenic (dissolved)	µg/l	0.15	ISO 17025	0.28	0.91	2.10	1.81
Cadmium (dissolved)	µg/l	0.02	ISO 17025	0.08	0.13	0.04	0.13
Chromium (dissolved)	µg/l	0.2	ISO 17025	3.3	1.7	9.2	3.4
Copper (dissolved)	µg/l	0.5	ISO 17025	4.0	4.1	4.6	10
Lead (dissolved)	µg/l	0.2	ISO 17025	< 0.2	< 0.2	< 0.2	< 0.2
Mercury (dissolved)	µg/l	0.05	ISO 17025	< 0.05	< 0.05	< 0.05	< 0.05
Nickel (dissolved)	µg/l	0.5	ISO 17025	11	38	5.9	14
Selenium (dissolved)	µg/l	0.6	ISO 17025	4.8	6.9	2.7	3.0
Zinc (dissolved)	µg/l	0.5	ISO 17025	13	22	6.6	43

Monoaromatics & Oxygenates

Benzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
o-xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0

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Iss No 21-72714-1 Contract Chemicals
Page 2 of 7



Analytical Report Number: 21-72714
Project / Site name: Contract Chemicals

Lab Sample Number	1858591	1858592	1858593	1858594
Sample Reference	BH4	BH5	BH1	BH3
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	2.00	2.00	2.00	2.00
Date Sampled	27/04/2021	27/04/2021	29/04/2021	29/04/2021
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Water Analysis)	Units	Limit of detection	Accreditation Status	

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >C5 - C6	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >C6 - C8	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >C8 - C10	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >C10 - C12	µg/l	10	NONE	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C12 - C16	µg/l	10	NONE	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C16 - C21	µg/l	10	NONE	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C21 - C35	µg/l	10	NONE	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic (C5 - C35)	µg/l	10	NONE	< 10	< 10	< 10	< 10

TPH-CWG - Aromatic >C5 - C7	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >C7 - C8	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >C8 - C10	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >C10 - C12	µg/l	10	NONE	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C12 - C16	µg/l	10	NONE	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C16 - C21	µg/l	10	NONE	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C21 - C35	µg/l	10	NONE	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic (C5 - C35)	µg/l	10	NONE	< 10	< 10	< 10	< 10

VOCs

Chloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl Chloride	µg/l	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0
Trichlorofluoromethane	µg/l	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Cis-1,2-dichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
2,2-Dichloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Trichloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloropropene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,2-dichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Benzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Dibromomethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Cis-1,3-dichloropropene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,3-dichloropropene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Dibromochloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0

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Iss No 21-72714-1 Contract Chemicals
Page 3 of 7



Analytical Report Number: 21-72714
Project / Site name: Contract Chemicals

Lab Sample Number				1858591	1858592	1858593	1858594
Sample Reference				BH4	BH5	BH1	BH3
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				2.00	2.00	2.00	2.00
Date Sampled				27/04/2021	27/04/2021	29/04/2021	29/04/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Water Analysis)	Units	Limit of detection	Accreditation Scheme				
p & m-Xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Styrene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Tribromomethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Bromobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
n-Propylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
2-Chlorotoluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
4-Chlorotoluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
tert-Butylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
sec-Butylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
p-Isopropyltoluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Butylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Hexachlorobutadiene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0

SVOCs

Aniline	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05
Phenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05
2-Chlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05
Bis(2-chloroethoxy)ether	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05
1,3-Dichlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05
1,2-Dichlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05
1,4-Dichlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05
Bis(2-chloroisopropoxy)ether	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05
2-Methylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05
Hexachloroethane	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05
Nitrobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05
4-Methylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05
Isophorone	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05
2-Nitrophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05
2,4-Dimethylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05
Bis(2-chloroethoxy)methane	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05
1,2,4-Trichlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05
Naphthalene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01
2,4-Dichlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05
4-Chloroaniline	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobutadiene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05
4-Chloro-3-methylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05
2,4,6-Trichlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05
2,4,5-Trichlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05
2-Methylnaphthalene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05
2-Chloronaphthalene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05
Dimethylnaphthalene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05
2,6-Dinitrotoluene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05

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Iss No 21-72714-1 Contract Chemicals
Page 4 of 7



Analytical Report Number: 21-72714
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Lab Sample Number				1858591	1858592	1858593	1858594
Sample Reference				BH4	BH5	BH1	BH3
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				2.00	2.00	2.00	2.00
Date Sampled				27/04/2021	27/04/2021	29/04/2021	29/04/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Water Analysis)	Units	Limit of detection	Accreditation Scheme				
Acenaphthylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01
2,4-Dinitrotoluene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05
Dibenzofuran	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05
4-Chlorophenyl phenyl ether	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05
Diethyl phthalate	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05
4-Nitroaniline	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01
Azobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05
Bromophenyl phenyl ether	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01
Anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01
Carbazole	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05
Dibutyl phthalate	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05
Anthraquinone	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05
Fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01
Pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01
Butyl benzyl phthalate	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01
Chrysene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(b)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(k)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01
Indeno(1,2,3-cd)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01
Dibenz(a,h)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(ghi)perylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01
3,4-Methylphenol	µg/l	0.1	NONE	< 0.10	< 0.10	< 0.10	< 0.10

U/S = Unsuitable Sample I/S = Insufficient Sample



Jon Berry
Portway Plant Ltd
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e: reception@i2analytical.com

e: jberry.portway@googlemail.com

Analytical Report Number : 21-85847

Project / Site name:	Contract Chemicals	Samples received on:	08/07/2021
Your job number:	C CHEM	Samples instructed on/ Analysis started on:	08/07/2021
Your order number:		Analysis completed by:	15/07/2021
Report Issue Number:	1	Report issued on:	15/07/2021
Samples Analysed:	11 soil samples		

Signed: *Karolina Marek*

Karolina Marek
PL Head of Reporting Team
For & on behalf of i2 Analytical Ltd.

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

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soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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



Analytical Report Number: 21-85847
Project / Site name: Contract Chemicals

Lab Sample Number				1932081	1932082	1932083	1932084	1932085
Sample Reference				PPS1	PPS2	PPS3	PPS4	PPS5
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.00-0.30	0.00-0.30	0.00-0.30	0.00-0.30	0.00-0.30
Date Sampled				06/07/2021	06/07/2021	06/07/2021	06/07/2021	06/07/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Scheme					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	15	17	12	13	13
Total mass of sample received	kg	0.001	NONE	0.50	0.50	0.50	0.50	0.50

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	9.0	9.5	9.1	8.3	8.1
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	0.36	< 0.05	< 0.05	< 0.05
Pyrene	mg/kg	0.05	MCERTS	< 0.05	0.56	< 0.05	< 0.05	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	0.15	< 0.05	< 0.05	< 0.05
Chrysene	mg/kg	0.05	MCERTS	< 0.05	0.17	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	0.17	< 0.05	< 0.05	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	0.12	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	0.19	< 0.05	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	< 0.80	1.72	< 0.80	< 0.80	< 0.80
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	5.6	6.0	6.8	8.6	7.8
Boron (water soluble)	mg/kg	0.2	MCERTS	0.2	0.3	< 0.2	0.2	< 0.2
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	18	25	15	30	36
Copper (aqua regia extractable)	mg/kg	1	MCERTS	31	36	19	27	23
Lead (aqua regia extractable)	mg/kg	1	MCERTS	19	29	5.5	7.9	7.4
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	15	25	14	36	24
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	14	17	15	28	30
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	90	88	47	49	70

Monoaromatics & Oxygenates

Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0



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Lab Sample Number				1932081	1932082	1932083	1932084	1932085
Sample Reference				PPS1	PPS2	PPS3	PPS4	PPS5
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.00-0.30	0.00-0.30	0.00-0.30	0.00-0.30	0.00-0.30
Date Sampled				06/07/2021	06/07/2021	06/07/2021	06/07/2021	06/07/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
VOCs								
Chloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl Chloride	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichlorofluoromethane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloropropene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,2-dichloroethene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromomethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0



Analytical Report Number: 21-85847
Project / Site name: Contract Chemicals

Lab Sample Number				1932081	1932082	1932083	1932084	1932085
Sample Reference	PPS1							
Sample Number	None Supplied							
Depth (m)	0.00-0.30							
Date Sampled	06/07/2021							
Time Taken	None Supplied							
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Scheme					
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromochloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	µg/kg	1	MCERTS	9.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloromethane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
n-Propylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2-Chlorotoluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Chlorotoluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
tert-Butylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
sec-Butylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p-Isopropyltoluene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	µg/kg	1	MCERTS	220	150	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Butylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Hexachlorobutadiene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

SVOCs

Aniline	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Phenol	mg/kg	0.2	ISO 17025	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
2-Chlorophenol	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Bis(2-chloroethoxy)ether	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Bis(2-chloroisopropoxy)ether	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Methylphenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Hexachloroethane	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nitrobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
4-Methylphenol	mg/kg	0.2	NONE	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Isophorone	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
2-Nitrophenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3



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Lab Sample Number				1932081	1932082	1932083	1932084	1932085
Sample Reference				PPS1	PPS2	PPS3	PPS4	PPS5
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.00-0.30	0.00-0.30	0.00-0.30	0.00-0.30	0.00-0.30
Date Sampled				06/07/2021	06/07/2021	06/07/2021	06/07/2021	06/07/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
4-Chloroaniline	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachlorobutadiene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
2-Methylnaphthalene	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Chloronaphthalene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dimethylphthalate	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Dibenzofuran	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Diethyl phthalate	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
4-Nitroaniline	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Azobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Hexachlorobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Carbazole	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Dibutyl phthalate	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Anthraquinone	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	0.36	< 0.05	< 0.05	< 0.05
Pyrene	mg/kg	0.05	MCERTS	< 0.05	0.56	< 0.05	< 0.05	< 0.05
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	0.15	< 0.05	< 0.05	< 0.05
Chrysene	mg/kg	0.05	MCERTS	< 0.05	0.17	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	0.17	< 0.05	< 0.05	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	0.12	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	0.19	< 0.05	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

U/S = Unsuitable Sample I/S = Insufficient Sample



Analytical Report Number: 21-85847

Project / Site name: Contract Chemicals

Lab Sample Number				1932086	1932087	1932088	1932089	1932090
Sample Reference				PPS6	PPS7	PPS8	PPS9	PPS10
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.00-0.30	0.00-0.30	0.00-0.30	0.00-0.30	0.00-0.30
Date Sampled				06/07/2021	06/07/2021	06/07/2021	06/07/2021	06/07/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	13	13	15	14	12
Total mass of sample received	kg	0.001	NONE	0.50	0.50	0.50	0.50	0.50

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	9.8	7.7	7.9	8.1	8.0
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	4.1	7.4	6.5	9.9	8.7
Boron (water soluble)	mg/kg	0.2	MCERTS	0.9	< 0.2	< 0.2	0.2	0.3
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	18	35	36	36	38
Copper (aqua regia extractable)	mg/kg	1	MCERTS	17	21	25	29	17
Lead (aqua regia extractable)	mg/kg	1	MCERTS	8.2	6.3	7.3	13	7.7
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	15	36	28	30	21
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	14	29	29	34	38
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	47	41	42	64	38

Monoaromatics & Oxygenates

Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0



Analytical Report Number: 21-85847
Project / Site name: Contract Chemicals

Lab Sample Number					1932086	1932087	1932088	1932089	1932090
Sample Reference					PP56	PP57	PP58	PP59	PP510
Sample Number					None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)					0.00-0.30	0.00-0.30	0.00-0.30	0.00-0.30	0.00-0.30
Date Sampled					06/07/2021	06/07/2021	06/07/2021	06/07/2021	06/07/2021
Time Taken					None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)					Units	Limit of detection	Accuracy	Recovery	Recovery
Petrolium Hydrocarbons									
TPH-CWG - Aliphatic >EC5 - EC6					mg/kg	0.001	MCERTS	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8					mg/kg	0.001	MCERTS	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10					mg/kg	0.001	MCERTS	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12					mg/kg	1	MCERTS	< 1.0	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16					mg/kg	2	MCERTS	< 2.0	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21					mg/kg	8	MCERTS	< 8.0	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35					mg/kg	8	MCERTS	< 8.0	< 8.0
TPH-CWG - Aliphatic (EC5 - EC35)					mg/kg	10	MCERTS	< 10	< 10
TPH-CWG - Aromatic >EC5 - EC7					mg/kg	0.001	MCERTS	< 0.001	< 0.001
TPH-CWG - Aromatic >EC7 - EC8					mg/kg	0.001	MCERTS	< 0.001	< 0.001
TPH-CWG - Aromatic >EC8 - EC10					mg/kg	0.001	MCERTS	< 0.001	< 0.001
TPH-CWG - Aromatic >EC10 - EC12					mg/kg	1	MCERTS	< 1.0	< 1.0
TPH-CWG - Aromatic >EC12 - EC16					mg/kg	2	MCERTS	< 2.0	< 2.0
TPH-CWG - Aromatic >EC16 - EC21					mg/kg	10	MCERTS	< 10	< 10
TPH-CWG - Aromatic >EC21 - EC35					mg/kg	10	MCERTS	< 10	< 10
TPH-CWG - Aromatic (EC5 - EC35)					mg/kg	10	MCERTS	< 10	< 10
VOCs									
Chloromethane					µg/kg	1	ISO 17025	< 1.0	< 1.0
Chloroethane					µg/kg	1	NONE	< 1.0	< 1.0
Bromomethane					µg/kg	1	ISO 17025	< 1.0	< 1.0
Vinyl Chloride					µg/kg	1	NONE	< 1.0	< 1.0
Trichlorofluoromethane					µg/kg	1	NONE	< 1.0	< 1.0
1,1-Dichloroethane					µg/kg	1	NONE	< 1.0	< 1.0
1,1,2-Trichloro 1,2,2-Trifluoroethane					µg/kg	1	ISO 17025	< 1.0	< 1.0
Cis-1,2-dichloroethane					µg/kg	1	MCERTS	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)					µg/kg	1	MCERTS	< 1.0	< 1.0
1,1-Dichloroethane					µg/kg	1	MCERTS	< 1.0	< 1.0
2,2-Dichloropropane					µg/kg	1	MCERTS	< 1.0	< 1.0
Trichloromethane					µg/kg	1	MCERTS	< 1.0	< 1.0
1,1,1-Trichloroethane					µg/kg	1	MCERTS	< 1.0	< 1.0
1,2-Dichloroethane					µg/kg	1	MCERTS	< 1.0	< 1.0
1,1-Dichloropropene					µg/kg	1	MCERTS	< 1.0	< 1.0
Trans-1,2-dichloroethene					µg/kg	1	NONE	< 1.0	< 1.0
Benzene					µg/kg	1	MCERTS	< 1.0	< 1.0
Tetrachloromethane					µg/kg	1	MCERTS	< 1.0	< 1.0
1,2-Dichloropropane					µg/kg	1	MCERTS	< 1.0	< 1.0
Trichloroethene					µg/kg	1	MCERTS	< 1.0	< 1.0
Dibromomethane					µg/kg	1	MCERTS	< 1.0	< 1.0
Bromodichloromethane					µg/kg	1	MCERTS	< 1.0	< 1.0
Cis-1,3-dichloropropene					µg/kg	1	ISO 17025	< 1.0	< 1.0



Analytical Report Number: 21-85847
Project / Site name: Contract Chemicals

Lab Sample Number				1932086	1932087	1932088	1932089	1932090
Sample Reference				PPS6	PPS7	PPS8	PPS9	PPS10
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.00-0.30	0.00-0.30	0.00-0.30	0.00-0.30	0.00-0.30
Date Sampled				06/07/2021	06/07/2021	06/07/2021	06/07/2021	06/07/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Scheme					
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromochloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tribromomethane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
n-Propylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2-Chlorotoluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Chlorotoluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
tert-Butylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
sec-Butylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	58	< 1.0	< 1.0	< 1.0	< 1.0
p-Isopropyltoluene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	µg/kg	1	MCERTS	200	< 1.0	< 1.0	22	< 1.0
1,4-Dichlorobenzene	µg/kg	1	MCERTS	66	< 1.0	< 1.0	< 1.0	< 1.0
Butylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Hexachlorobutadiene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

SVOCs

Aniline	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Phenol	mg/kg	0.2	ISO 17025	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
2-Chlorophenol	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Methylphenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Hexachloroethane	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nitrobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
4-Methylphenol	mg/kg	0.2	NONE	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Isophorone	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
2-Nitrophenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3



Analytical Report Number: 21-85847
Project / Site name: Contract Chemicals

Lab Sample Number				1932086	1932087	1932088	1932089	1932090
Sample Reference				PPS6	PPS7	PPS8	PPS9	PPS10
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.00-0.30	0.00-0.30	0.00-0.30	0.00-0.30	0.00-0.30
Date Sampled				06/07/2021	06/07/2021	06/07/2021	06/07/2021	06/07/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation scheme					
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
4-Chloroaniline	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachlorobutadiene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
2-Methylnaphthalene	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Chloronaphthalene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dimethylphthalate	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Dibenzofuran	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Diethyl phthalate	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
4-Nitroaniline	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Azobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Hexachlorobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Carbazole	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Dibutyl phthalate	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Anthraquinone	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dibenzo(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

U/S = Unsuitable Sample I/S = Insufficient Sample



Analytical Report Number: 21-85847
Project / Site name: Contract Chemicals

Lab Sample Number	1932091			
Sample Reference	PPS11			
Sample Number	None Supplied			
Depth (m)	0.00-0.30			
Date Sampled	06/07/2021			
Time Taken	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Acceptable level	
Stone Content	%	0.1	NONE	< 0.1
Moisture Content	%	0.01	NONE	14
Total mass of sample received	kg	0.001	NONE	0.50

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	10.8
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05
Anthracene	mg/kg	0.05	MCERTS	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05
Pyrene	mg/kg	0.05	MCERTS	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05
Chrysene	mg/kg	0.05	MCERTS	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	< 0.80
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Heavy Metals / Metalloids

Arsenic (aqueous extractable)	mg/kg	1	MCERTS	3.5
Boron (water soluble)	mg/kg	0.2	MCERTS	0.3
Cadmium (aqueous extractable)	mg/kg	0.2	MCERTS	< 0.2
Chromium (aqueous extractable)	mg/kg	1	MCERTS	16
Copper (aqueous extractable)	mg/kg	1	MCERTS	17
Lead (aqueous extractable)	mg/kg	1	MCERTS	12
Mercury (aqueous extractable)	mg/kg	0.3	MCERTS	< 0.3
Nickel (aqueous extractable)	mg/kg	1	MCERTS	11
Selenium (aqueous extractable)	mg/kg	1	MCERTS	< 1.0
Vanadium (aqueous extractable)	mg/kg	1	MCERTS	17
Zinc (aqueous extractable)	mg/kg	1	MCERTS	40

Monoaromatics & Oxygenates

Benzene	µg/kg	1	MCERTS	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0
p & m-xylene	µg/kg	1	MCERTS	< 1.0
o-xylene	µg/kg	1	MCERTS	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0



Analytical Report Number: 21-85847
Project / Site name: Contract Chemicals

Lab Sample Number				1932091
Sample Reference				PPS11
Sample Number				None Supplied
Depth (m)				0.00-0.30
Date Sampled				06/07/2021
Time Taken				None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Scheme	
Petroleum Hydrocarbons				
TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	< 8.0
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10

TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	< 0.001
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	< 0.001
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	< 10
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10

VOCs

Chloromethane	µg/kg	1	ISO 17025	< 1.0
Chloroethane	µg/kg	1	NONE	< 1.0
Bromomethane	µg/kg	1	ISO 17025	< 1.0
Vinyl Chloride	µg/kg	1	NONE	< 1.0
Trichlorofluoromethane	µg/kg	1	NONE	< 1.0
1,1-Dichloroethane	µg/kg	1	NONE	< 1.0
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	< 1.0
Cis-1,2-dichloroethane	µg/kg	1	MCERTS	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0
1,1-Dichloroethane	µg/kg	1	MCERTS	< 1.0
2,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0
Trichloromethane	µg/kg	1	MCERTS	< 1.0
1,1,1-Trichloroethane	µg/kg	1	MCERTS	< 1.0
1,2-Dichloroethane	µg/kg	1	MCERTS	< 1.0
1,1-Dichloropropene	µg/kg	1	MCERTS	< 1.0
Trans-1,2-dichloroethene	µg/kg	1	NONE	< 1.0
Benzene	µg/kg	1	MCERTS	< 1.0
Tetrachloromethane	µg/kg	1	MCERTS	< 1.0
1,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0
Trichloroethene	µg/kg	1	MCERTS	< 1.0
Dibromomethane	µg/kg	1	MCERTS	< 1.0
Bromodichloromethane	µg/kg	1	MCERTS	< 1.0
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0



Analytical Report Number: 21-85847
Project / Site name: Contract Chemicals

Lab Sample Number	1932091			
Sample Reference	PPS11			
Sample Number	None Supplied			
Depth (m)	0.00-0.30			
Date Sampled	06/07/2021			
Time Taken	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Scheme	
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0
1,1,2-Trichloroethane	µg/kg	1	MCERTS	< 1.0
1,3-Dichloropropane	µg/kg	1	ISO 17025	< 1.0
Dibromochloromethane	µg/kg	1	ISO 17025	< 1.0
Tetrachloroethene	µg/kg	1	NONE	< 1.0
1,2-Dibromoethane	µg/kg	1	ISO 17025	< 1.0
Chlorobenzene	µg/kg	1	MCERTS	< 1.0
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0
p & m-Xylene	µg/kg	1	MCERTS	< 1.0
Styrene	µg/kg	1	MCERTS	< 1.0
Trichloromethane	µg/kg	1	NONE	< 1.0
o-Xylene	µg/kg	1	MCERTS	< 1.0
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0
Isopropylbenzene	µg/kg	1	MCERTS	< 1.0
Bromobenzene	µg/kg	1	MCERTS	< 1.0
n-Propylbenzene	µg/kg	1	ISO 17025	< 1.0
2-Chlorotoluene	µg/kg	1	MCERTS	< 1.0
4-Chlorotoluene	µg/kg	1	MCERTS	< 1.0
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0
tert-Butylbenzene	µg/kg	1	MCERTS	< 1.0
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0
sec-Butylbenzene	µg/kg	1	MCERTS	< 1.0
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	< 1.0
p-Isopropyltoluene	µg/kg	1	ISO 17025	< 1.0
1,2-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0
1,4-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0
Butylbenzene	µg/kg	1	MCERTS	< 1.0
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	< 1.0
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	< 1.0
Hexachlorobutadiene	µg/kg	1	MCERTS	< 1.0
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	< 1.0

SVOCs				
Aniline	mg/kg	0.1	NONE	< 0.1
Phenol	mg/kg	0.2	ISO 17025	< 0.2
2-Chlorophenol	mg/kg	0.1	MCERTS	< 0.1
Bis(2-chloroethoxy)ether	mg/kg	0.2	MCERTS	< 0.2
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	< 0.1
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2
Bis(2-chloroisopropoxy)ether	mg/kg	0.1	MCERTS	< 0.1
2-Methylphenol	mg/kg	0.3	MCERTS	< 0.3
Hexachloroethane	mg/kg	0.05	MCERTS	< 0.05
Nitrobenzene	mg/kg	0.3	MCERTS	< 0.3
4-Methylphenol	mg/kg	0.2	NONE	< 0.2
Isophorone	mg/kg	0.2	MCERTS	< 0.2
2-Nitrophenol	mg/kg	0.3	MCERTS	< 0.3
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	< 0.3
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	< 0.3



Analytical Report Number: 21-85847
Project / Site name: Contract Chemicals

Lab Sample Number				1932091
Sample Reference				PPS11
Sample Number				None Supplied
Depth (m)				0.00-0.30
Date Sampled				06/07/2021
Time Taken				None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation status	
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	< 0.3
Naphthalene	mg/kg	0.05	MCERTS	< 0.05
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	< 0.3
4-Chloroaniline	mg/kg	0.1	NONE	< 0.1
Hexachlorobutadiene	mg/kg	0.1	MCERTS	< 0.1
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	< 0.1
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	< 0.1
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	< 0.2
2-Methylnaphthalene	mg/kg	0.1	NONE	< 0.1
2-Chloronaphthalene	mg/kg	0.1	MCERTS	< 0.1
Dimethylphthalate	mg/kg	0.1	MCERTS	< 0.1
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	< 0.1
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	< 0.2
Dibenzofuran	mg/kg	0.2	MCERTS	< 0.2
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	< 0.3
Diethyl phthalate	mg/kg	0.2	MCERTS	< 0.2
4-Nitroaniline	mg/kg	0.2	MCERTS	< 0.2
Fluorene	mg/kg	0.05	MCERTS	< 0.05
Azobenzene	mg/kg	0.3	MCERTS	< 0.3
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	< 0.2
Hexachlorobenzene	mg/kg	0.3	MCERTS	< 0.3
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05
Anthracene	mg/kg	0.05	MCERTS	< 0.05
Carbazole	mg/kg	0.3	MCERTS	< 0.3
Dibutyl phthalate	mg/kg	0.2	MCERTS	< 0.2
Anthraquinone	mg/kg	0.3	MCERTS	< 0.3
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05
Pyrene	mg/kg	0.05	MCERTS	< 0.05
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	< 0.3
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05
Chrysene	mg/kg	0.05	MCERTS	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05

U/S = Unsuitable Sample I/S = Insufficient Sample



Analytical Report Number : 21-85847

Project / Site name: Contract Chemicals

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

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

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
1932061	PPS1	None Supplied	0.00-0.30	Brown clay with vegetation.
1932062	PPS2	None Supplied	0.00-0.30	Brown clay with vegetation.
1932063	PPS3	None Supplied	0.00-0.30	Brown clay.
1932064	PPS4	None Supplied	0.00-0.30	Brown clay.
1932065	PPS5	None Supplied	0.00-0.30	Brown clay.
1932066	PPS6	None Supplied	0.00-0.30	Brown clay.
1932067	PPS7	None Supplied	0.00-0.30	Brown clay.
1932068	PPS8	None Supplied	0.00-0.30	Brown clay.
1932069	PPS9	None Supplied	0.00-0.30	Brown clay.
1932090	PPS10	None Supplied	0.00-0.30	Brown clay.
1932091	PPS11	None Supplied	0.00-0.30	Brown clay with gravel.

APPENDIX D - PHOTOGRAPHIC PLATES



3 Images of the demolition and decommissioning of the site.





The first image is the metal top hat to protect the borehole installed for obtaining a water sample after removing the concrete slab.



The next 2 images show the concrete removed and the subsurface, to the left is the subbase under the concrete.



This image is the earth under the slab which did not present any odours or discolouration.



These 3 images show that the site has been cleared of relic items and the concrete slab has been peppered with holes in readiness to lift the concrete slab.



Former area of the Bonner Building and equipment.



View from the Bonner area towards the office.



View from the Bonner Building towards the outside storage area.



North centre of the site with relic tanks about to be removed from the site for recycling.



Chemical waste storage outside the chemical waste store.



Inside the chemical store with the last few remaining drums of unused products awaiting removal/disposal.



Another image of the remaining chemical products inside the storage building.



View of the site looking NorthEast from the office after clearing the site and leaving in place the tarmac road.



As the demolition progresses removing the slabs as shown here.



To commencing with the office building demolition.



Starting to process the concrete to form a crushed material for reuse.



Site being kept in a tidy state as the demolition works commence.



Starting to crush the concrete and form stockpiles.



Stockpiles of crushed material being formed.



These 3 images show the site after all the relict structures, tanks and wastes have been removed.



The final 3 images show the open site after demolition as the crushing is being completed.

APPENDIX E – WASTE REMOVAL

Invoice example from Avanti



Avanti Environmental Group Limited
Atlas House, Third Avenue, Globe Business Park
SL7 1EY Marlow
T. 0845 603 2893

INVOICE

CUSTOMER		INVOICE
NAME:	Knowsley Redevelopments Limited	INVOICE NUMBER: 4635006131 INVOICE DATE: 31/07/2021 CURRENCY: GBP CUSTOMER CODE: 1100043043
BILLING ADDR:	c/o Contract Chemicals, Penrhyn Road	
CITY:	Knowsley Business Park, Prescott	
POST CODE:	L34 9HY	
VAT NUMBER:	GB356990844	
PRODUCER:	Knowsley Redevelopments (Knowsley)	

INVOICE DETAILS				
SERVICE	DESCRIPTION	QUANTITY	UNIT PRICE	AMOUNT
26.07.2021	Methyl-2-Bromotetradecanoate P.O.: Load 19 OUR/REF: 2819540 CONSIGNMENT NOTE: KNOWSL/0002R EWC: 070103	4.000	Dr 205l	487.00
				1,948.00
26.07.2021	Stage 1 Cloquinteet P.O.: Load 19 OUR/REF: 2819540 CONSIGNMENT NOTE: KNOWSL/0002R EWC: 070103	5.000	1000lt	1,450.00
				7,250.00
26.07.2021	Diocetylphosphonate P.O.: Load 19 OUR/REF: 2819540 CONSIGNMENT NOTE: KNOWSL/0002R EWC: 070103	2.000	Dr 205l	240.00
				480.00
26.07.2021	3-Chloropropylidimethyl Ammonium Chi P.O.: Load 19 OUR/REF: 2819540 CONSIGNMENT NOTE: KNOWSL/0002R EWC: 070103	2.000	Dr 205l	270.00
				540.00
26.07.2021	Bromopropionic Acid P.O.: Load 19 OUR/REF: 2819540 CONSIGNMENT NOTE: KNOWSL/0002R EWC: 070103	12.000	Dr 205l	497.00
				5,964.00
26.07.2021	Methyl-2-Bromotetradecanoate			

Avanti Environmental Group Limited is registered in England No: 03476148 and is part of TRADEBE. Registered Office: Atlas House, Third Avenue, Globe Business Park, Marlow, Buckinghamshire, SL7 1EY. V.A.T No: GB 918 340 722 GB EORI: 918340722000 / EU EORI: FR GB 1208603750001

Page 1 / 3

APPENDIX F – PLANT DECOMMISSIONING



CONTRACT CHEMICALS LIMITED

Date: 29.07.20	Issue No: 006	BROMINE SYSTEM CLEAN DOWN	CCL/PROW/VCP-BROMINE SYSTEM	Page 1 of 12
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BROMINE SYSTEM CLEAN DOWN (SITE CLOSURE)

This document forms part of the Contract Chemicals Limited
quality assurance system and adherence to its requirements is mandatory.

Issued by (Competent Person)	Date 29/07/20
Approved by (Production)	Date 29.7.20.
Approved by (Technical)	Date 29/07/20
Approved by (QSE)	Date 30/07/20

A full copy of this document and water testing can be found within Appendix D of the electronic file. As part of the surrender application.

APPENDIX G – HISTORIC REPORTS AND DOCUMENTS RECOVERED (SUMMARY)

The list below can be found in the electronic file as part of the surrender application, a full copy cannot be issued due to the large volume of records collected. However, if required a viewing can be arranged by appointment.

Appendix A Historic Ground/Condition Reports List oldest first

A Baseline Report Site Investigation by Cremer & Warner 27/04/1993 (Fully scanned)

A1 Ground Investigation (Condition Report) Ref report no 97/2 by Sub Soil Surveys Ltd, dated 02/1997

A2 Site Condition Report, Ref S09389C002, by Entec, dated 13/12/2002

A3

Appendix B Incidents

B Phosphorous Fire – Bonner Building 16/08/2004

B Distillation of Benzyl Bromocetate 5/1/2002

B Bonner Lev Fire 30/12/2009

B Trade Effluent Overspill 12/2010 – Entec report

B Trade Effluent Overspill Sampling 01/01/2011 (fully scanned)

B Bromododecane Spillage Investigation 01/09/2012 (fully scanned)

B Knowsley Brook Incident 13/08/2013

B Xylene Investigation 31/10/2017

B Bronner Building Vapour Cloud 12/06/2018

B Abnormal Occurrence Reports (examples taken from 2018)