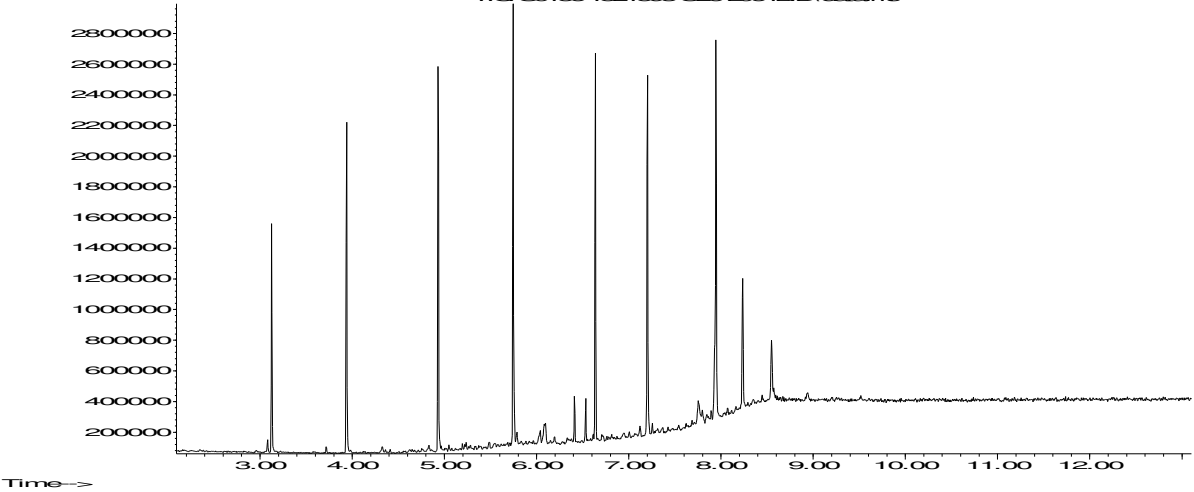
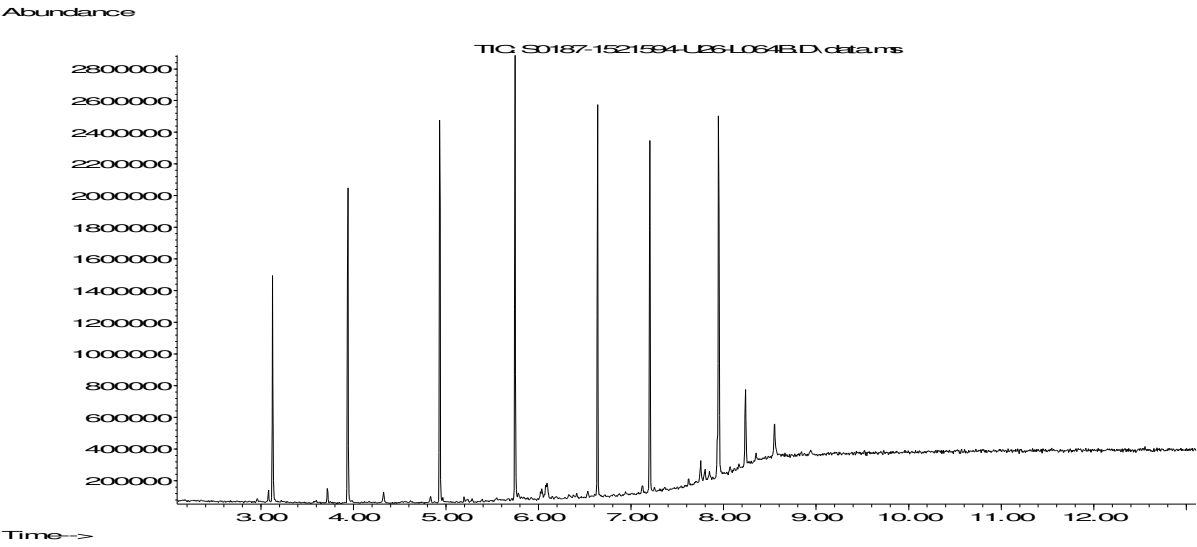
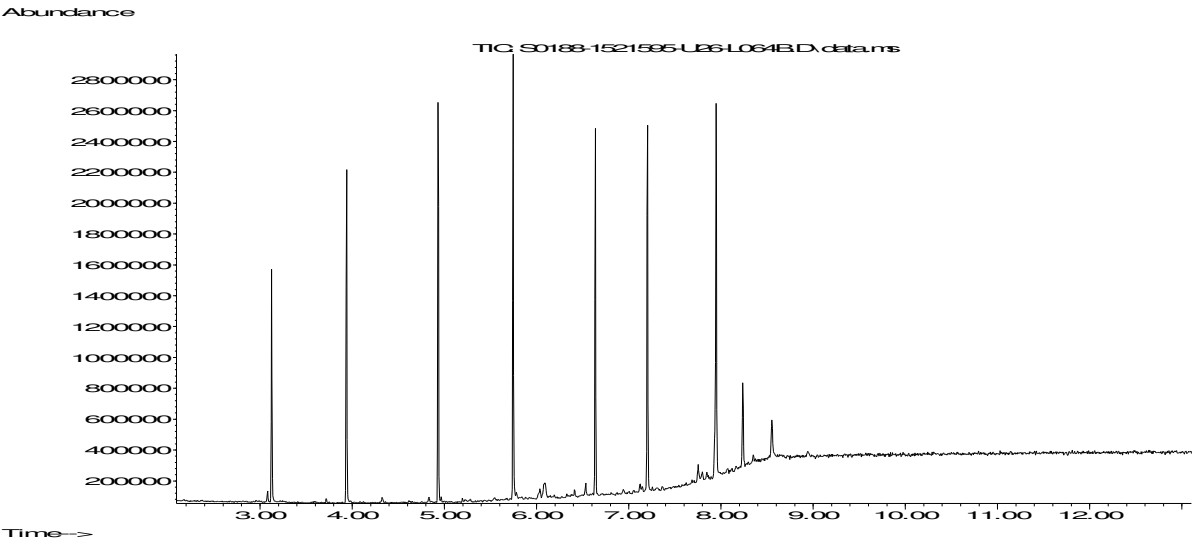


Abundance

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Analytical Report Number : 20-12297

Project / Site name:	Dyson Road	Samples received on:	02/06/2020
Your job number:	20-0337.01	Sample instructed/ Analysis started on:	02/06/2020
Your order number:	DS54582	Analysis completed by:	09/06/2020
Report Issue Number:	1	Report issued on:	09/06/2020
Samples Analysed:	10 soil samples		

Signed: 

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.

Iss No 20-12297-1 Dyson Road 20-0337.01.XLS

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The results included within the report relate only to the sample(s) submitted for testing.

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Analytical Report Number: 20-12297

Project / Site name: Dyson Road

Your Order No: DS54582

Lab Sample Number	1523903	1523904	1523906	1523907	1523908
Sample Reference	BH102	BH102	DS103	DS103	DS103
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	0.50	2.00	0.50	1.50	2.50
Date Sampled	01/06/2020	01/06/2020	02/06/2020	02/06/2020	02/06/2020
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	%	N/A	NONE	10	8.0
Total mass of sample received	kg	0.001	NONE	1.8	1.8

Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	-	-	Chrysotile - Loose Fibres	-	-
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Detected	Not-detected	Not-detected

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	10.4	8.5	11.1	8.5	7.8
Total Cyanide	mg/kg	1	MCERTS	< 1	-	-	< 1	< 1
Complex Cyanide	mg/kg	1	MCERTS	< 1	-	-	< 1	< 1
Free Cyanide	mg/kg	1	MCERTS	< 1	-	-	< 1	< 1
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	990	96	420	82	48
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.50	0.048	0.21	0.041	0.024
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	497	48.2	209	41.0	23.8

Phenols by GC-MS

Phenol	mg/kg	0.2	NONE	< 0.2	-	-	< 0.2	< 0.2
2,4,5-Trichlorophenol	mg/kg	0.2	NONE	< 0.2	-	-	< 0.2	< 0.2
2,4,6-Trichlorophenol	mg/kg	0.1	NONE	< 0.1	-	-	< 0.1	< 0.1
2,4-Dichlorophenol	mg/kg	0.3	NONE	< 0.3	-	-	< 0.3	< 0.3
2,4-Dimethylphenol	mg/kg	0.3	NONE	< 0.3	-	-	< 0.3	< 0.3
2-Chlorophenol	mg/kg	0.1	NONE	< 0.1	-	-	< 0.1	< 0.1
2-Methylphenol	mg/kg	0.3	MCERTS	< 0.3	-	-	< 0.3	< 0.3
2-Nitrophenol	mg/kg	0.3	NONE	< 0.3	-	-	< 0.3	< 0.3
4-Chloro-3-methylphenol	mg/kg	0.1	ISO 17025	< 0.1	-	-	< 0.1	< 0.1
4-Methylphenol	mg/kg	0.2	NONE	< 0.2	-	-	< 0.2	0.3

Total Phenols

Total Phenols (GC-MS)	mg/kg	1	NONE	< 1.0	-	-	< 1.0	< 1.0
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.44	< 0.05	1.2
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.26	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	0.77	< 0.05	0.45	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	0.70	< 0.05	0.65	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	3.9	< 0.05	5.1	< 0.05	2.2
Anthracene	mg/kg	0.05	MCERTS	1.1	< 0.05	1.2	< 0.05	0.40
Fluoranthene	mg/kg	0.05	MCERTS	4.1	< 0.05	7.7	< 0.05	0.90
Pyrene	mg/kg	0.05	MCERTS	3.4	< 0.05	7.7	< 0.05	1.3
Benzo(a)anthracene	mg/kg	0.05	MCERTS	2.2	< 0.05	4.6	< 0.05	0.63
Chrysene	mg/kg	0.05	MCERTS	1.2	< 0.05	3.1	< 0.05	0.49
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	2.1	< 0.05	5.2	< 0.05	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	1.0	< 0.05	1.9	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	1.9	< 0.05	4.3	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.89	< 0.05	1.9	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.26	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.89	< 0.05	1.9	< 0.05	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	24.4	< 0.80	46.3	< 0.80	7.07
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Analytical Report Number: 20-12297

Project / Site name: Dyson Road

Your Order No: DS54582

Lab Sample Number	1523903	1523904	1523906	1523907	1523908
Sample Reference	BH102	BH102	DS103	DS103	DS103
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	0.50	2.00	0.50	1.50	2.50
Date Sampled	01/06/2020	01/06/2020	02/06/2020	02/06/2020	02/06/2020
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	11	13	11	8.7	27
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	0.3	< 0.2	0.3	0.5	< 0.2
Chromium (hexavalent)	mg/kg	1.2	MCERTS	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	39	20	25	21	14
Copper (aqua regia extractable)	mg/kg	1	MCERTS	52	5.9	48	14	4.1
Lead (aqua regia extractable)	mg/kg	1	MCERTS	130	8.0	130	7.9	8.3
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	0.5	< 0.3	0.6	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	17	22	24	95	22
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	130	23	130	24	31

Monoaromatics & Oxygenates

Benzene	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Toluene	mg/kg	0.001	MCERTS	< 0.001	< 0.001	0.011	< 0.001	1.6
Ethylbenzene	mg/kg	0.001	MCERTS	< 0.001	< 0.001	0.010	< 0.001	0.54
p & m-xylene	mg/kg	0.001	MCERTS	< 0.001	< 0.001	0.044	< 0.001	2.4
o-xylene	mg/kg	0.001	MCERTS	< 0.001	< 0.001	0.033	< 0.001	1.1
MTBE (Methyl Tertiary Butyl Ether)	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001

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	0.18
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	0.27	< 0.001	1.1
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	39	< 1.0	32
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	8.2	< 2.0	170	< 2.0	430
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	26	8.4	650	< 8.0	1500
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	69	43	4000	30	13000
TPH-CWG - Aliphatic >EC35 - EC40	mg/kg	10	NONE	< 10	< 10	190	< 10	810
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	100	51	4900	33	15000

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	0.011	< 0.001	1.6
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	0.39	0.030	6.4
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	19	< 1.0	9.7
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	21	< 2.0	86	< 2.0	120
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	53	< 10	260	< 10	360
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	85	< 10	1200	< 10	2700
TPH-CWG - Aromatic >EC35 - EC40	mg/kg	10	NONE	< 10	< 10	220	< 10	300
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	160	< 10	1500	< 10	3200

TPH (C35 - C40)	mg/kg	10	MCERTS	< 10	< 10	410	< 10	1100
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Analytical Report Number: 20-12297

Project / Site name: Dyson Road

Your Order No: DS54582

Lab Sample Number	1523903	1523904	1523906	1523907	1523908
Sample Reference	BH102	BH102	DS103	DS103	DS103
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	0.50	2.00	0.50	1.50	2.50
Date Sampled	01/06/2020	01/06/2020	02/06/2020	02/06/2020	02/06/2020
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		

VOCs

Chloromethane	mg/kg	0.001	ISO 17025	< 0.0010	-	-	< 0.0010	< 0.0010
Chloroethane	mg/kg	0.001	NONE	< 0.0010	-	-	< 0.0010	< 0.0010
Bromomethane	mg/kg	0.001	ISO 17025	< 0.0010	-	-	< 0.0010	< 0.0010
Vinyl Chloride	mg/kg	0.001	NONE	< 0.0010	-	-	< 0.0010	< 0.0010
Trichlorofluoromethane	mg/kg	0.001	NONE	< 0.0010	-	-	< 0.0010	< 0.0010
1,1-Dichloroethene	mg/kg	0.001	NONE	< 0.0010	-	-	< 0.0010	< 0.0010
1,1,2-Trichloro 1,2,2-Trifluoroethane	mg/kg	0.001	ISO 17025	< 0.0010	-	-	< 0.0010	< 0.0010
Cis-1,2-dichloroethene	mg/kg	0.001	MCERTS	< 0.0010	-	-	< 0.0010	< 0.0010
MTBE (Methyl Tertiary Butyl Ether)	mg/kg	0.001	MCERTS	< 0.0010	-	-	< 0.0010	< 0.0010
1,1-Dichloroethane	mg/kg	0.001	MCERTS	< 0.0010	-	-	< 0.0010	< 0.0010
2,2-Dichloropropane	mg/kg	0.001	MCERTS	< 0.0010	-	-	< 0.0010	< 0.0010
Trichloromethane	mg/kg	0.001	MCERTS	< 0.0010	-	-	< 0.0010	< 0.0010
1,1,1-Trichloroethane	mg/kg	0.001	MCERTS	< 0.0010	-	-	< 0.0010	< 0.0010
1,2-Dichloroethane	mg/kg	0.001	MCERTS	< 0.0010	-	-	< 0.0010	< 0.0010
1,1-Dichloropropene	mg/kg	0.001	MCERTS	< 0.0010	-	-	< 0.0010	< 0.0010
Trans-1,2-dichloroethene	mg/kg	0.001	NONE	< 0.0010	-	-	< 0.0010	< 0.0010
Benzene	mg/kg	0.001	MCERTS	< 0.0010	-	-	< 0.0010	< 0.0010
Tetrachloromethane	mg/kg	0.001	MCERTS	< 0.0010	-	-	< 0.0010	< 0.0010
1,2-Dichloropropane	mg/kg	0.001	MCERTS	< 0.0010	-	-	< 0.0010	< 0.0010
Trichloroethene	mg/kg	0.001	MCERTS	< 0.0010	-	-	< 0.0010	< 0.0010
Dibromomethane	mg/kg	0.001	MCERTS	< 0.0010	-	-	< 0.0010	< 0.0010
Bromodichloromethane	mg/kg	0.001	MCERTS	< 0.0010	-	-	< 0.0010	< 0.0010
Cis-1,3-dichloropropene	mg/kg	0.001	ISO 17025	< 0.0010	-	-	< 0.0010	< 0.0010
Trans-1,3-dichloropropene	mg/kg	0.001	ISO 17025	< 0.0010	-	-	< 0.0010	< 0.0010
Toluene	mg/kg	0.001	MCERTS	< 0.0010	-	-	< 0.0010	1.6
1,1,2-Trichloroethane	mg/kg	0.001	MCERTS	< 0.0010	-	-	< 0.0010	< 0.0010
1,3-Dichloropropane	mg/kg	0.001	ISO 17025	< 0.0010	-	-	< 0.0010	< 0.0010
Dibromochloromethane	mg/kg	0.001	ISO 17025	< 0.0010	-	-	< 0.0010	< 0.0010
Tetrachloroethene	mg/kg	0.001	NONE	< 0.0010	-	-	< 0.0010	< 0.0010
1,2-Dibromoethane	mg/kg	0.001	ISO 17025	< 0.0010	-	-	< 0.0010	< 0.0010
Chlorobenzene	mg/kg	0.001	MCERTS	< 0.0010	-	-	< 0.0010	< 0.0010
1,1,1,2-Tetrachloroethane	mg/kg	0.001	MCERTS	< 0.0010	-	-	< 0.0010	< 0.0010
Ethylbenzene	mg/kg	0.001	MCERTS	< 0.0010	-	-	< 0.0010	0.54
p & m-Xylene	mg/kg	0.001	MCERTS	< 0.0010	-	-	< 0.0010	2.4
Styrene	mg/kg	0.001	MCERTS	< 0.0010	-	-	< 0.0010	< 0.0010
Tribromomethane	mg/kg	0.001	NONE	< 0.0010	-	-	< 0.0010	< 0.0010
o-Xylene	mg/kg	0.001	MCERTS	< 0.0010	-	-	< 0.0010	1.1
1,1,2,2-Tetrachloroethane	mg/kg	0.001	MCERTS	< 0.0010	-	-	< 0.0010	< 0.0010
Isopropylbenzene	mg/kg	0.001	MCERTS	< 0.0010	-	-	< 0.0010	0.070
Bromobenzene	mg/kg	0.001	MCERTS	< 0.0010	-	-	< 0.0010	< 0.0010
n-Propylbenzene	mg/kg	0.001	ISO 17025	< 0.0010	-	-	< 0.0010	0.24
2-Chlorotoluene	mg/kg	0.001	MCERTS	< 0.0010	-	-	< 0.0010	< 0.0010
4-Chlorotoluene	mg/kg	0.001	MCERTS	< 0.0010	-	-	< 0.0010	< 0.0010
1,3,5-Trimethylbenzene	mg/kg	0.001	ISO 17025	< 0.0010	-	-	0.012	0.45
tert-Butylbenzene	mg/kg	0.001	MCERTS	< 0.0010	-	-	< 0.0010	< 0.0010
1,2,4-Trimethylbenzene	mg/kg	0.001	ISO 17025	< 0.0010	-	-	0.018	1.6
sec-Butylbenzene	mg/kg	0.001	MCERTS	< 0.0010	-	-	< 0.0010	0.030
1,3-Dichlorobenzene	mg/kg	0.001	ISO 17025	< 0.0010	-	-	< 0.0010	< 0.0010
p-Isopropyltoluene	mg/kg	0.001	ISO 17025	< 0.0010	-	-	< 0.0010	0.022
1,2-Dichlorobenzene	mg/kg	0.001	MCERTS	< 0.0010	-	-	< 0.0010	< 0.0010
1,4-Dichlorobenzene	mg/kg	0.001	MCERTS	< 0.0010	-	-	< 0.0010	< 0.0010
Butylbenzene	mg/kg	0.001	MCERTS	< 0.0010	-	-	< 0.0010	< 0.0010
1,2-Dibromo-3-chloropropane	mg/kg	0.001	ISO 17025	< 0.0010	-	-	< 0.0010	< 0.0010
1,2,4-Trichlorobenzene	mg/kg	0.001	MCERTS	< 0.0010	-	-	< 0.0010	< 0.0010
Hexachlorobutadiene	mg/kg	0.001	MCERTS	< 0.0010	-	-	< 0.0010	< 0.0010
1,2,3-Trichlorobenzene	mg/kg	0.001	ISO 17025	< 0.0010	-	-	< 0.0010	< 0.0010



Analytical Report Number: 20-12297

Project / Site name: Dyson Road

Your Order No: DS54582

Lab Sample Number				1523903	1523904	1523906	1523907	1523908
Sample Reference				BH102	BH102	DS103	DS103	DS103
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.50	2.00	0.50	1.50	2.50
Date Sampled				01/06/2020	01/06/2020	02/06/2020	02/06/2020	02/06/2020
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)				Units	Limit of detection	Accreditation Status		
VOCs TICs								
VOCs TICs Compound Name				N/A	NONE	ND	-	ND
VOC % Match				%	N/A	NONE	0	0

Analytical Report Number: 20-12297

Project / Site name: Dyson Road

Your Order No: DS54582

Lab Sample Number	1523903	1523904	1523906	1523907	1523908
Sample Reference	BH102	BH102	DS103	DS103	DS103
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	0.50	2.00	0.50	1.50	2.50
Date Sampled	01/06/2020	01/06/2020	02/06/2020	02/06/2020	02/06/2020
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		

SVOCs

Aniline	mg/kg	0.1	NONE	< 0.1	-	-	< 0.1	< 0.1
Phenol	mg/kg	0.2	ISO 17025	< 0.2	-	-	< 0.2	< 0.2
2-Chlorophenol	mg/kg	0.1	MCERTS	< 0.1	-	-	< 0.1	< 0.1
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	< 0.2	-	-	< 0.2	< 0.2
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	-	-	< 0.2	< 0.2
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	< 0.1	-	-	< 0.1	< 0.1
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	-	-	< 0.2	< 0.2
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	< 0.1	-	-	< 0.1	< 0.1
2-Methylphenol	mg/kg	0.3	MCERTS	< 0.3	-	-	< 0.3	< 0.3
Hexachloroethane	mg/kg	0.05	MCERTS	< 0.05	-	-	< 0.05	< 0.05
Nitrobenzene	mg/kg	0.3	MCERTS	< 0.3	-	-	< 0.3	< 0.3
4-Methylphenol	mg/kg	0.2	NONE	< 0.2	-	-	< 0.2	0.3
Isophorone	mg/kg	0.2	MCERTS	< 0.2	-	-	< 0.2	< 0.2
2-Nitrophenol	mg/kg	0.3	MCERTS	< 0.3	-	-	< 0.3	< 0.3
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	< 0.3	-	-	< 0.3	< 0.3
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	< 0.3	-	-	< 0.3	< 0.3
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	< 0.3	-	-	< 0.3	< 0.3
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	-	-	< 0.05	1.2
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	< 0.3	-	-	< 0.3	< 0.3
4-Chloroaniline	mg/kg	0.1	NONE	< 0.1	-	-	< 0.1	< 0.1
Hexachlorobutadiene	mg/kg	0.1	MCERTS	< 0.1	-	-	< 0.1	< 0.1
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	< 0.1	-	-	< 0.1	< 0.1
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	< 0.1	-	-	< 0.1	< 0.1
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	< 0.2	-	-	< 0.2	< 0.2
2-Methylnaphthalene	mg/kg	0.1	NONE	0.3	-	-	< 0.1	2.8
2-Chloronaphthalene	mg/kg	0.1	MCERTS	< 0.1	-	-	< 0.1	< 0.1
Dimethylphthalate	mg/kg	0.1	MCERTS	< 0.1	-	-	< 0.1	< 0.1
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	< 0.1	-	-	< 0.1	< 0.1
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	-	-	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	0.77	-	-	< 0.05	< 0.05
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	< 0.2	-	-	< 0.2	< 0.2
Dibenzofuran	mg/kg	0.2	MCERTS	0.5	-	-	< 0.2	< 0.2
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	< 0.3	-	-	< 0.3	< 0.3
Diethyl phthalate	mg/kg	0.2	MCERTS	< 0.2	-	-	< 0.2	< 0.2
4-Nitroaniline	mg/kg	0.2	MCERTS	< 0.2	-	-	< 0.2	< 0.2
Fluorene	mg/kg	0.05	MCERTS	0.70	-	-	< 0.05	< 0.05
Azobenzene	mg/kg	0.3	MCERTS	< 0.3	-	-	< 0.3	< 0.3
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	< 0.2	-	-	< 0.2	< 0.2
Hexachlorobenzene	mg/kg	0.3	MCERTS	< 0.3	-	-	< 0.3	< 0.3
Phenanthrene	mg/kg	0.05	MCERTS	3.9	-	-	< 0.05	2.2
Anthracene	mg/kg	0.05	MCERTS	1.1	-	-	< 0.05	0.40
Carbazole	mg/kg	0.3	MCERTS	< 0.3	-	-	< 0.3	< 0.3
Dibutyl phthalate	mg/kg	0.2	MCERTS	< 0.2	-	-	< 0.2	2.0
Anthraquinone	mg/kg	0.3	MCERTS	< 0.3	-	-	< 0.3	< 0.3
Fluoranthene	mg/kg	0.05	MCERTS	4.1	-	-	< 0.05	0.90
Pyrene	mg/kg	0.05	MCERTS	3.4	-	-	< 0.05	1.3
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	< 0.3	-	-	< 0.3	< 0.3
Benzo(a)anthracene	mg/kg	0.05	MCERTS	2.2	-	-	< 0.05	0.63
Chrysene	mg/kg	0.05	MCERTS	1.2	-	-	< 0.05	0.49
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	2.1	-	-	< 0.05	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	1.0	-	-	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	1.9	-	-	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.89	-	-	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.26	-	-	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.89	-	-	< 0.05	< 0.05

Analytical Report Number: 20-12297

Project / Site name: Dyson Road

Your Order No: DS54582

Lab Sample Number	1523903	1523904	1523906	1523907	1523908
Sample Reference	BH102	BH102	DS103	DS103	DS103
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	0.50	2.00	0.50	1.50	2.50
Date Sampled	01/06/2020	01/06/2020	02/06/2020	02/06/2020	02/06/2020
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		

SVOCs TICs

SVOCs TICs Compound Name		N/A	NONE	Eicosane	-	-	ND	Tetratriacontane
SVOC % Match	%	N/A	NONE	98	-	-	0	99
SVOCs TICs Compound Name		N/A	NONE	Benzo[e]pyrene	-	-	-	Hexadecane
SVOC % Match	%	N/A	NONE	98	-	-	-	98
SVOCs TICs Compound Name		N/A	NONE	Naphthalene, 1,6,7-trimethyl-	-	-	-	Octadecane
SVOC % Match	%	N/A	NONE	97	-	-	-	98
SVOCs TICs Compound Name		N/A	NONE	Naphthalene, 2,3-dimethyl-	-	-	-	Eicosane
SVOC % Match	%	N/A	NONE	96	-	-	-	98
SVOCs TICs Compound Name		N/A	NONE	Naphthalene, 2,7-dimethyl-	-	-	-	Hexatriacontane
SVOC % Match	%	N/A	NONE	96	-	-	-	98
SVOCs TICs Compound Name		N/A	NONE	Phenanthrene, 1-methyl-	-	-	-	Tridecane
SVOC % Match	%	N/A	NONE	96	-	-	-	97
SVOCs TICs Compound Name		N/A	NONE	Benzene, 1,4-dichloro-	-	-	-	Pentadecane
SVOC % Match	%	N/A	NONE	95	-	-	-	97
SVOCs TICs Compound Name		N/A	NONE	Hexadecane	-	-	-	Heneicosane
SVOC % Match	%	N/A	NONE	95	-	-	-	97
SVOCs TICs Compound Name		N/A	NONE	Pyrene, 1-methyl-	-	-	-	Hexacosane
SVOC % Match	%	N/A	NONE	95	-	-	-	97
SVOCs TICs Compound Name		N/A	NONE	Tricosane	-	-	-	Tetradecane
SVOC % Match	%	N/A	NONE	95	-	-	-	96

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Project / Site name: Dyson Road

Your Order No: DS54582

Lab Sample Number	1523909	1523910	1523911	1523912	1523913
Sample Reference	DS103	DS106	DS106	DS106	DS106
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	4.00	0.50	1.50	2.50	3.50
Date Sampled	02/06/2020	02/06/2020	02/06/2020	02/06/2020	02/06/2020
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	%	N/A	NONE	6.9	14
Total mass of sample received	kg	0.001	NONE	1.8	1.8

Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	-	Chrysotile - Loose Fibres	-	-	-
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Detected	Not-detected	Not-detected	Not-detected

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	7.9	8.2	8.1	7.9	8.4
Total Cyanide	mg/kg	1	MCERTS	< 1	-	< 1	-	-
Complex Cyanide	mg/kg	1	MCERTS	< 1	-	< 1	-	-
Free Cyanide	mg/kg	1	MCERTS	< 1	-	< 1	-	-
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	37	520	270	28	55
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.019	0.26	0.14	0.014	0.027
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	18.7	261	136	13.9	27.3

Phenols by GC-MS

Phenol	mg/kg	0.2	NONE	< 0.2	-	< 0.2	-	-
2,4,5-Trichlorophenol	mg/kg	0.2	NONE	< 0.2	-	< 0.2	-	-
2,4,6-Trichlorophenol	mg/kg	0.1	NONE	< 0.1	-	< 0.1	-	-
2,4-Dichlorophenol	mg/kg	0.3	NONE	< 0.3	-	< 0.3	-	-
2,4-Dimethylphenol	mg/kg	0.3	NONE	< 0.3	-	< 0.3	-	-
2-Chlorophenol	mg/kg	0.1	NONE	< 0.1	-	< 0.1	-	-
2-Methylphenol	mg/kg	0.3	MCERTS	< 0.3	-	< 0.3	-	-
2-Nitrophenol	mg/kg	0.3	NONE	< 0.3	-	< 0.3	-	-
4-Chloro-3-methylphenol	mg/kg	0.1	ISO 17025	< 0.1	-	< 0.1	-	-
4-Methylphenol	mg/kg	0.2	NONE	< 0.2	-	< 0.2	-	-

Total Phenols

Total Phenols (GC-MS)	mg/kg	1	NONE	< 1.0	-	< 1.0	-	-
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.45	< 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	0.36	0.70	< 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	1.1	0.35	< 0.05	< 0.05
Pyrene	mg/kg	0.05	MCERTS	< 0.05	1.0	0.41	< 0.05	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	0.91	< 0.05	< 0.05	< 0.05
Chrysene	mg/kg	0.05	MCERTS	< 0.05	0.50	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	1.2	< 0.05	< 0.05	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	0.56	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	1.0	< 0.05	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	0.45	< 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	0.49	< 0.05	< 0.05	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	< 0.80	7.53	1.91	< 0.80	< 0.80
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Analytical Report Number: 20-12297

Project / Site name: Dyson Road

Your Order No: DS54582

Lab Sample Number	1523909	1523910	1523911	1523912	1523913
Sample Reference	DS103	DS106	DS106	DS106	DS106
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	4.00	0.50	1.50	2.50	3.50
Date Sampled	02/06/2020	02/06/2020	02/06/2020	02/06/2020	02/06/2020
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied

Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Heavy Metals / Metalloids								
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	6.7	13	36	14	12
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	0.8	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	1.2	MCERTS	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	21	25	22	19	18
Copper (aqua regia extractable)	mg/kg	1	MCERTS	10	61	18	8.2	9.0
Lead (aqua regia extractable)	mg/kg	1	MCERTS	7.6	150	24	8.1	7.0
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	0.6	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	21	20	100	19	20
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	19	130	47	15	18

Monoaromatics & Oxygenates

Benzene	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Toluene	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Ethylbenzene	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
p & m-xylene	mg/kg	0.001	MCERTS	< 0.001	< 0.001	0.011	< 0.001	< 0.001
o-xylene	mg/kg	0.001	MCERTS	< 0.001	0.008	0.009	< 0.001	< 0.001
MTBE (Methyl Tertiary Butyl Ether)	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001

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	4.6	< 1.0	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	4.7	82	< 2.0	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0	18	320	< 8.0	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	< 8.0	310	3800	< 8.0	< 8.0
TPH-CWG - Aliphatic >EC35 - EC40	mg/kg	10	NONE	< 10	18	110	< 10	< 10
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	330	4200	< 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	0.040	0.048	< 0.001	< 0.001
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	4.3	< 1.0	< 1.0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	41	< 2.0	< 2.0
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10	10	130	< 10	< 10
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	< 10	85	760	< 10	< 10
TPH-CWG - Aromatic >EC35 - EC40	mg/kg	10	NONE	< 10	< 10	29	< 10	< 10
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	95	940	< 10	< 10

TPH (C35 - C40)	mg/kg	10	MCERTS	< 10	26	140	< 10	< 10
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Analytical Report Number: 20-12297

Project / Site name: Dyson Road

Your Order No: DS54582

Lab Sample Number				1523909	1523910	1523911	1523912	1523913
Sample Reference				DS103	DS106	DS106	DS106	DS106
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				4.00	0.50	1.50	2.50	3.50
Date Sampled				02/06/2020	02/06/2020	02/06/2020	02/06/2020	02/06/2020
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
VOCs								
Chloromethane	mg/kg	0.001	ISO 17025	< 0.0010	-	< 0.0010	< 0.0010	< 0.0010
Chloroethane	mg/kg	0.001	NONE	< 0.0010	-	< 0.0010	< 0.0010	< 0.0010
Bromomethane	mg/kg	0.001	ISO 17025	< 0.0010	-	< 0.0010	< 0.0010	< 0.0010
Vinyl Chloride	mg/kg	0.001	NONE	< 0.0010	-	< 0.0010	< 0.0010	< 0.0010
Trichlorofluoromethane	mg/kg	0.001	NONE	< 0.0010	-	< 0.0010	< 0.0010	< 0.0010
1,1-Dichloroethene	mg/kg	0.001	NONE	< 0.0010	-	< 0.0010	< 0.0010	< 0.0010
1,1,2-Trichloro 1,2,2-Trifluoroethane	mg/kg	0.001	ISO 17025	< 0.0010	-	< 0.0010	< 0.0010	< 0.0010
Cis-1,2-dichloroethene	mg/kg	0.001	MCERTS	< 0.0010	-	< 0.0010	< 0.0010	< 0.0010
MTBE (Methyl Tertiary Butyl Ether)	mg/kg	0.001	MCERTS	< 0.0010	-	< 0.0010	< 0.0010	< 0.0010
1,1-Dichloroethane	mg/kg	0.001	MCERTS	< 0.0010	-	< 0.0010	< 0.0010	< 0.0010
2,2-Dichloropropane	mg/kg	0.001	MCERTS	< 0.0010	-	< 0.0010	< 0.0010	< 0.0010
Trichloromethane	mg/kg	0.001	MCERTS	< 0.0010	-	< 0.0010	< 0.0010	< 0.0010
1,1,1-Trichloroethane	mg/kg	0.001	MCERTS	< 0.0010	-	< 0.0010	< 0.0010	< 0.0010
1,2-Dichloroethane	mg/kg	0.001	MCERTS	< 0.0010	-	< 0.0010	< 0.0010	< 0.0010
1,1-Dichloropropene	mg/kg	0.001	MCERTS	< 0.0010	-	< 0.0010	< 0.0010	< 0.0010
Trans-1,2-dichloroethene	mg/kg	0.001	NONE	< 0.0010	-	< 0.0010	< 0.0010	< 0.0010
Benzene	mg/kg	0.001	MCERTS	< 0.0010	-	< 0.0010	< 0.0010	< 0.0010
Tetrachloromethane	mg/kg	0.001	MCERTS	< 0.0010	-	< 0.0010	< 0.0010	< 0.0010
1,2-Dichloropropane	mg/kg	0.001	MCERTS	< 0.0010	-	< 0.0010	< 0.0010	< 0.0010
Trichloroethene	mg/kg	0.001	MCERTS	< 0.0010	-	< 0.0010	< 0.0010	< 0.0010
Dibromomethane	mg/kg	0.001	MCERTS	< 0.0010	-	< 0.0010	< 0.0010	< 0.0010
Bromodichloromethane	mg/kg	0.001	MCERTS	< 0.0010	-	< 0.0010	< 0.0010	< 0.0010
Cis-1,3-dichloropropene	mg/kg	0.001	ISO 17025	< 0.0010	-	< 0.0010	< 0.0010	< 0.0010
Trans-1,3-dichloropropene	mg/kg	0.001	ISO 17025	< 0.0010	-	< 0.0010	< 0.0010	< 0.0010
Toluene	mg/kg	0.001	MCERTS	< 0.0010	-	< 0.0010	< 0.0010	< 0.0010
1,1,2-Trichloroethane	mg/kg	0.001	MCERTS	< 0.0010	-	< 0.0010	< 0.0010	< 0.0010
1,3-Dichloropropane	mg/kg	0.001	ISO 17025	< 0.0010	-	< 0.0010	< 0.0010	< 0.0010
Dibromochloromethane	mg/kg	0.001	ISO 17025	< 0.0010	-	< 0.0010	< 0.0010	< 0.0010
Tetrachloroethene	mg/kg	0.001	NONE	< 0.0010	-	< 0.0010	< 0.0010	< 0.0010
1,2-Dibromoethane	mg/kg	0.001	ISO 17025	< 0.0010	-	< 0.0010	< 0.0010	< 0.0010
Chlorobenzene	mg/kg	0.001	MCERTS	< 0.0010	-	< 0.0010	< 0.0010	< 0.0010
1,1,1,2-Tetrachloroethane	mg/kg	0.001	MCERTS	< 0.0010	-	< 0.0010	< 0.0010	< 0.0010
Ethylbenzene	mg/kg	0.001	MCERTS	< 0.0010	-	< 0.0010	< 0.0010	< 0.0010
p & m-Xylene	mg/kg	0.001	MCERTS	< 0.0010	-	0.011	< 0.0010	< 0.0010
Styrene	mg/kg	0.001	MCERTS	< 0.0010	-	< 0.0010	< 0.0010	< 0.0010
Tribromomethane	mg/kg	0.001	NONE	< 0.0010	-	< 0.0010	< 0.0010	< 0.0010
o-Xylene	mg/kg	0.001	MCERTS	< 0.0010	-	0.0090	< 0.0010	< 0.0010
1,1,2,2-Tetrachloroethane	mg/kg	0.001	MCERTS	< 0.0010	-	< 0.0010	< 0.0010	< 0.0010
Isopropylbenzene	mg/kg	0.001	MCERTS	< 0.0010	-	< 0.0010	< 0.0010	< 0.0010
Bromobenzene	mg/kg	0.001	MCERTS	< 0.0010	-	< 0.0010	< 0.0010	< 0.0010
n-Propylbenzene	mg/kg	0.001	ISO 17025	< 0.0010	-	< 0.0010	< 0.0010	< 0.0010
2-Chlorotoluene	mg/kg	0.001	MCERTS	< 0.0010	-	< 0.0010	< 0.0010	< 0.0010
4-Chlorotoluene	mg/kg	0.001	MCERTS	< 0.0010	-	< 0.0010	< 0.0010	< 0.0010
1,3,5-Trimethylbenzene	mg/kg	0.001	ISO 17025	< 0.0010	-	0.0088	< 0.0010	< 0.0010
tert-Butylbenzene	mg/kg	0.001	MCERTS	< 0.0010	-	< 0.0010	< 0.0010	< 0.0010
1,2,4-Trimethylbenzene	mg/kg	0.001	ISO 17025	< 0.0010	-	0.019	< 0.0010	< 0.0010
sec-Butylbenzene	mg/kg	0.001	MCERTS	< 0.0010	-	< 0.0010	< 0.0010	< 0.0010
1,3-Dichlorobenzene	mg/kg	0.001	ISO 17025	< 0.0010	-	< 0.0010	< 0.0010	< 0.0010
p-Isopropyltoluene	mg/kg	0.001	ISO 17025	< 0.0010	-	< 0.0010	< 0.0010	< 0.0010
1,2-Dichlorobenzene	mg/kg	0.001	MCERTS	< 0.0010	-	< 0.0010	< 0.0010	< 0.0010
1,4-Dichlorobenzene	mg/kg	0.001	MCERTS	< 0.0010	-	< 0.0010	< 0.0010	< 0.0010
Butylbenzene	mg/kg	0.001	MCERTS	< 0.0010	-	< 0.0010	< 0.0010	< 0.0010
1,2-Dibromo-3-chloropropane	mg/kg	0.001	ISO 17025	< 0.0010	-	< 0.0010	< 0.0010	< 0.0010
1,2,4-Trichlorobenzene	mg/kg	0.001	MCERTS	< 0.0010	-	< 0.0010	< 0.0010	< 0.0010
Hexachlorobutadiene	mg/kg	0.001	MCERTS	< 0.0010	-	< 0.0010	< 0.0010	< 0.0010
1,2,3-Trichlorobenzene	mg/kg	0.001	ISO 17025	< 0.0010	-	< 0.0010	< 0.0010	< 0.0010



Analytical Report Number: 20-12297

Project / Site name: Dyson Road

Your Order No: DS54582

Lab Sample Number				1523909	1523910	1523911	1523912	1523913
Sample Reference				DS103	DS106	DS106	DS106	DS106
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				4.00	0.50	1.50	2.50	3.50
Date Sampled				02/06/2020	02/06/2020	02/06/2020	02/06/2020	02/06/2020
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)				Units	Limit of detection	Accreditation Status		
VOCs TICs								
VOCs TICs Compound Name					N/A	NONE	ND	ND
VOC % Match				%	N/A	NONE	0	0

Analytical Report Number: 20-12297

Project / Site name: Dyson Road

Your Order No: DS54582

Lab Sample Number				1523909	1523910	1523911	1523912	1523913
Sample Reference				DS103	DS106	DS106	DS106	DS106
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				4.00	0.50	1.50	2.50	3.50
Date Sampled				02/06/2020	02/06/2020	02/06/2020	02/06/2020	02/06/2020
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
SVOCs								
Aniline	mg/kg	0.1	NONE	< 0.1	-	< 0.1	< 0.1	< 0.1
Phenol	mg/kg	0.2	ISO 17025	< 0.2	-	< 0.2	< 0.2	< 0.2
2-Chlorophenol	mg/kg	0.1	MCERTS	< 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
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	-	< 0.2	< 0.2	< 0.2
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	< 0.1	-	< 0.1	< 0.1	< 0.1
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	< 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
2-Methylphenol	mg/kg	0.3	MCERTS	< 0.3	-	< 0.3	< 0.3	< 0.3
Hexachloroethane	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05	< 0.05
Nitrobenzene	mg/kg	0.3	MCERTS	< 0.3	-	< 0.3	< 0.3	< 0.3
4-Methylphenol	mg/kg	0.2	NONE	< 0.2	-	< 0.2	< 0.2	< 0.2
Isophorone	mg/kg	0.2	MCERTS	< 0.2	-	< 0.2	< 0.2	< 0.2
2-Nitrophenol	mg/kg	0.3	MCERTS	< 0.3	-	< 0.3	< 0.3	< 0.3
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	< 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
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	< 0.3	-	< 0.3	< 0.3	< 0.3
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	-	0.45	< 0.05	< 0.05
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	< 0.3	-	< 0.3	< 0.3	< 0.3
4-Chloroaniline	mg/kg	0.1	NONE	< 0.1	-	< 0.1	< 0.1	< 0.1
Hexachlorobutadiene	mg/kg	0.1	MCERTS	< 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
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	< 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
2-Methylnaphthalene	mg/kg	0.1	NONE	< 0.1	-	0.6	< 0.1	< 0.1
2-Chloronaphthalene	mg/kg	0.1	MCERTS	< 0.1	-	< 0.1	< 0.1	< 0.1
Dimethylphthalate	mg/kg	0.1	MCERTS	< 0.1	-	< 0.1	< 0.1	< 0.1
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	< 0.1	-	< 0.1	< 0.1	< 0.1
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05	< 0.05
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	< 0.2	-	< 0.2	< 0.2	< 0.2
Dibenzofuran	mg/kg	0.2	MCERTS	< 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
Diethyl phthalate	mg/kg	0.2	MCERTS	< 0.2	-	< 0.2	< 0.2	< 0.2
4-Nitroaniline	mg/kg	0.2	MCERTS	< 0.2	-	< 0.2	< 0.2	< 0.2
Fluorene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05	< 0.05
Azobenzene	mg/kg	0.3	MCERTS	< 0.3	-	< 0.3	< 0.3	< 0.3
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	< 0.2	-	< 0.2	< 0.2	< 0.2
Hexachlorobenzene	mg/kg	0.3	MCERTS	< 0.3	-	< 0.3	< 0.3	< 0.3
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	-	0.70	< 0.05	< 0.05
Anthracene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05	< 0.05
Carbazole	mg/kg	0.3	MCERTS	< 0.3	-	< 0.3	< 0.3	< 0.3
Dibutyl phthalate	mg/kg	0.2	MCERTS	< 0.2	-	0.5	< 0.2	< 0.2
Anthraquinone	mg/kg	0.3	MCERTS	< 0.3	-	< 0.3	< 0.3	< 0.3
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	-	0.35	< 0.05	< 0.05
Pyrene	mg/kg	0.05	MCERTS	< 0.05	-	0.41	< 0.05	< 0.05
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	< 0.3	-	< 0.3	< 0.3	< 0.3
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05	< 0.05
Chrysene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 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
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05	< 0.05

Analytical Report Number: 20-12297

Project / Site name: Dyson Road

Your Order No: DS54582

Lab Sample Number	1523909	1523910	1523911	1523912	1523913
Sample Reference	DS103	DS106	DS106	DS106	DS106
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	4.00	0.50	1.50	2.50	3.50
Date Sampled	02/06/2020	02/06/2020	02/06/2020	02/06/2020	02/06/2020
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		

SVOCs TICs

SVOCs TICs Compound Name		N/A	NONE	Eicosane	-	Tetratriacontane	ND	ND
SVOC % Match	%	N/A	NONE	95	-	99	-	-
SVOCs TICs Compound Name		N/A	NONE	-	-	Pentadecane, 2,6,10,14- tetramethyl-	-	-
SVOC % Match	%	N/A	NONE	-	-	98	-	-
SVOCs TICs Compound Name		N/A	NONE	-	-	Hexacosane	-	-
SVOC % Match	%	N/A	NONE	-	-	97	-	-
SVOCs TICs Compound Name		N/A	NONE	-	-	Hexatriacontane	-	-
SVOC % Match	%	N/A	NONE	-	-	97	-	-
SVOCs TICs Compound Name		N/A	NONE	-	-	Triacotane	-	-
SVOC % Match	%	N/A	NONE	-	-	96	-	-
SVOCs TICs Compound Name		N/A	NONE	-	-	Octacosane	-	-
SVOC % Match	%	N/A	NONE	-	-	96	-	-
SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	-
SVOC % Match	%	N/A	NONE	-	-	-	-	-
SVOCs TICs Compound Name		N/A	NONE	-	-	Naphthalene, 1,2,3,4-tetrahydro- 6-methyl-	-	-
SVOC % Match	%	N/A	NONE	-	-	95	-	-
SVOCs TICs Compound Name		N/A	NONE	-	-	Hexadecane, 2,6,10,14- tetramethyl-	-	-
SVOC % Match	%	N/A	NONE	-	-	95	-	-
SVOCs TICs Compound Name		N/A	NONE	-	-	Tricosane	-	-
SVOC % Match	%	N/A	NONE	-	-	95	-	-



Analytical Report Number : 20-12297

Project / Site name: Dyson Road

* 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 *
1523903	BH102	None Supplied	0.50	Brown loam and clay with gravel.
1523904	BH102	None Supplied	2.00	Brown sand with gravel.
1523906	DS103	None Supplied	0.50	Brown gravel.**
1523907	DS103	None Supplied	1.50	Brown gravel.**
1523908	DS103	None Supplied	2.50	Brown gravel.**
1523909	DS103	None Supplied	4.00	Brown gravel.**
1523910	DS106	None Supplied	0.50	Brown clay and loam.
1523911	DS106	None Supplied	1.50	Brown gravel.**
1523912	DS106	None Supplied	2.50	Brown gravel.**
1523913	DS106	None Supplied	3.50	Brown gravel.**

** Non MCERTS Matrix

Analytical Report Number : 20-12297

Project / Site name: Dyson Road

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Water (PrW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
BTEX and MTBE in soil (Monoaromatics)	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS
Complex Cyanide in soil	Determination of complex cyanide by calculation.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Free cyanide in soil	Determination of free cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Hexavalent chromium in soil (Lower Level)	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazine followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In house method.	L099-PL	D	MCERTS
Phenols, speciated, in soil, by GCMS	Determination of speciated phenols in soil by extraction in dichloromethane and hexane followed by GC-MS.	In-house method based on USEPA 8270	L064-PL	D	NONE
Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds in soil by extraction in dichloromethane and hexane followed by GC-MS.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
Speciated EPA-16 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Sulphate, water soluble, in soil (16hr extraction)	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In house method.	L038-PL	D	MCERTS
Tentatively identified compounds (SVOC) in soil	Determination of semi-volatile organic compounds total ion count in soil by extraction with dichloromethane and hexane followed by GC-MS followed by a full library scan.	In-house method based on USEPA 8270	L064-PL	D	NONE
Tentatively identified compounds (VOC) in soil	Determination of volatile organic compounds total ion count in soil by headspace GC-MS followed by a full library scan.	In-house method based on USEPA8260	L073-PL	W	NONE
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
TPH Chromatogram in Soil	TPH Chromatogram in Soil.	In-house method	L064-PL	D	NONE

Analytical Report Number : 20-12297

Project / Site name: Dyson Road

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Water (PrW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
TPH in (Soil)	Determination of TPH bands by HS-GC-MS/GC-FID	In-house method, TPH with carbon banding and silica gel split/cleanup.	L076-PL	D	NONE
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method with silica gel split/cleanup.	L088/76-PL	W	MCERTS
Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS

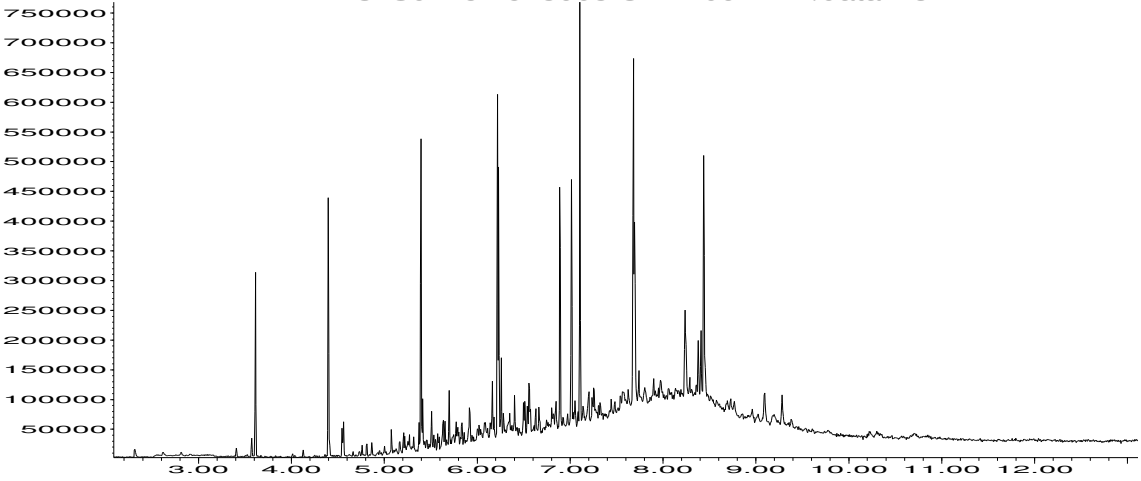
For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

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

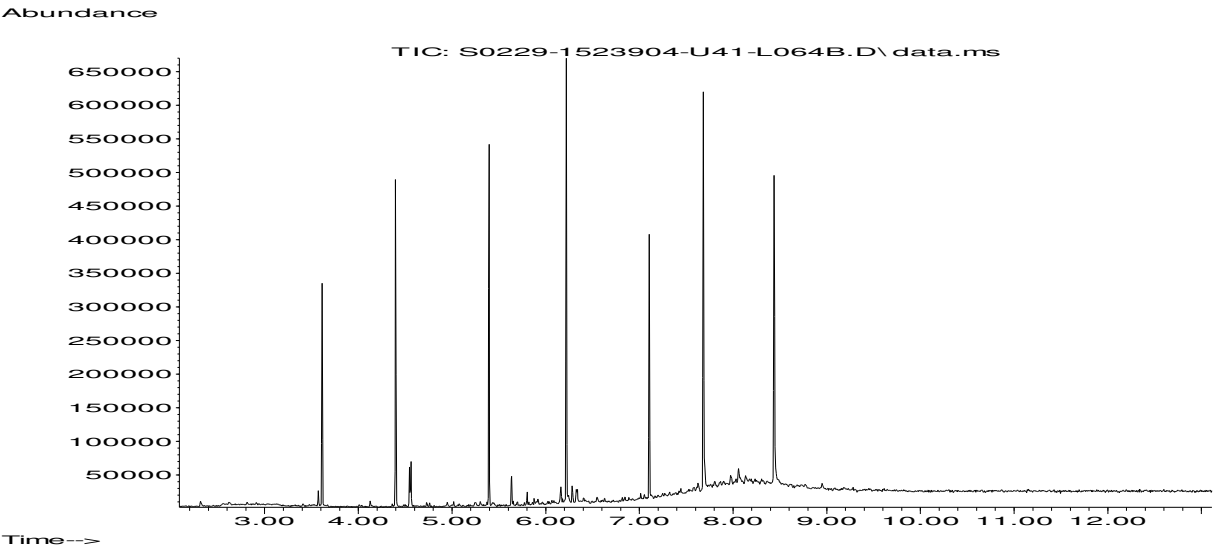
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

Abundance

TIC: S0228-1523903-U41-L064B.D\data.ms

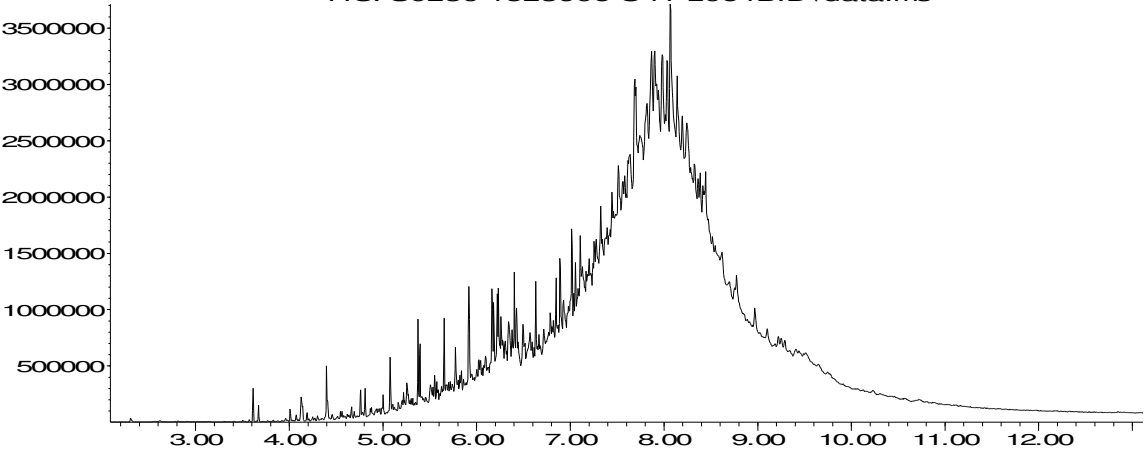


Time-->



Abundance

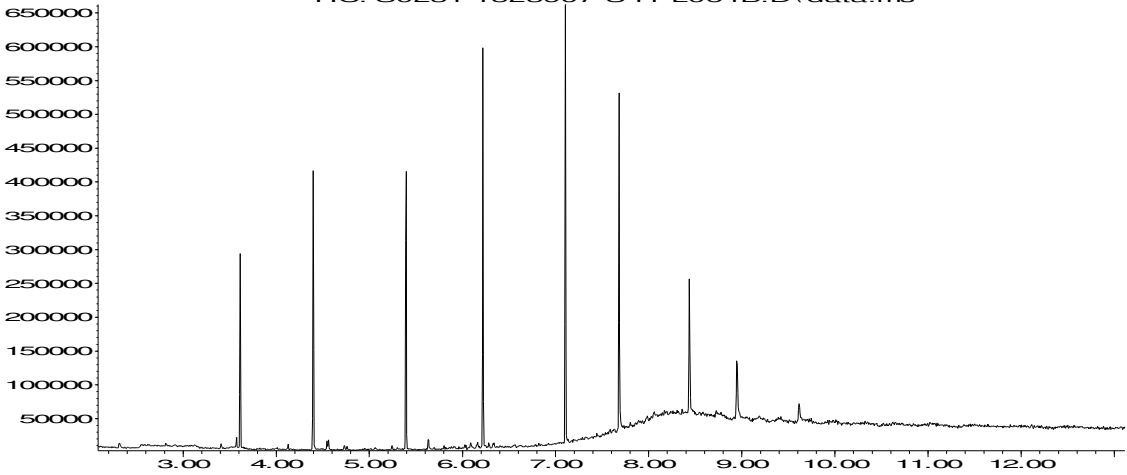
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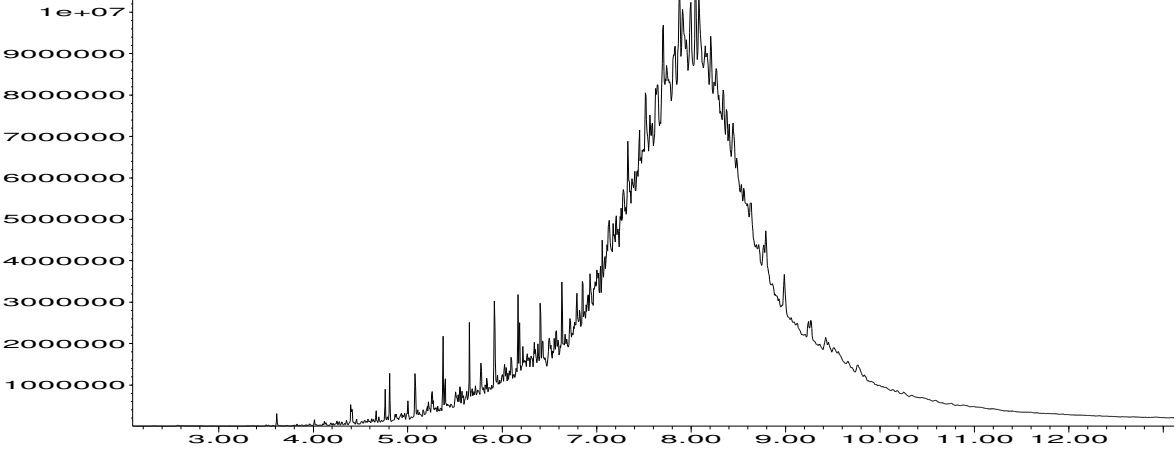
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Time-->

Abundance

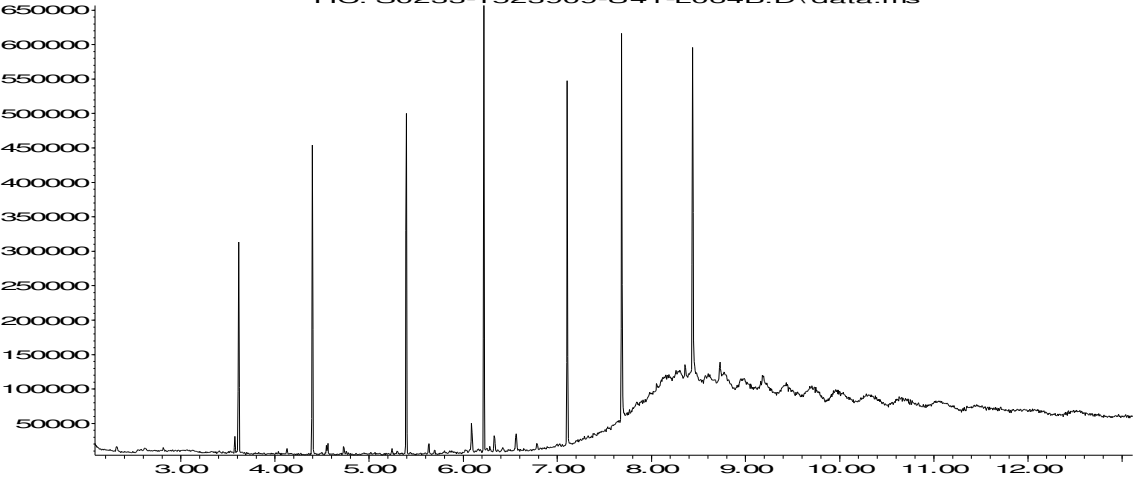
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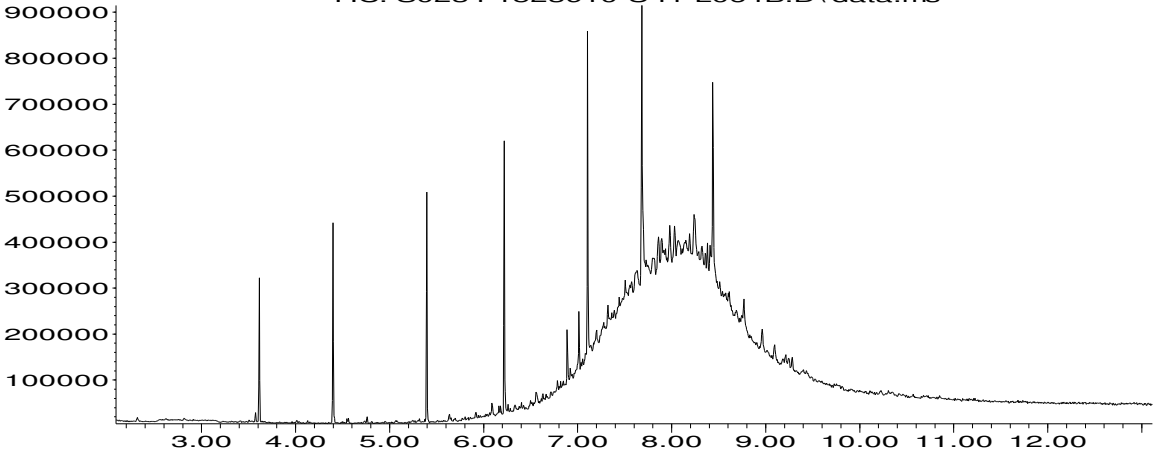
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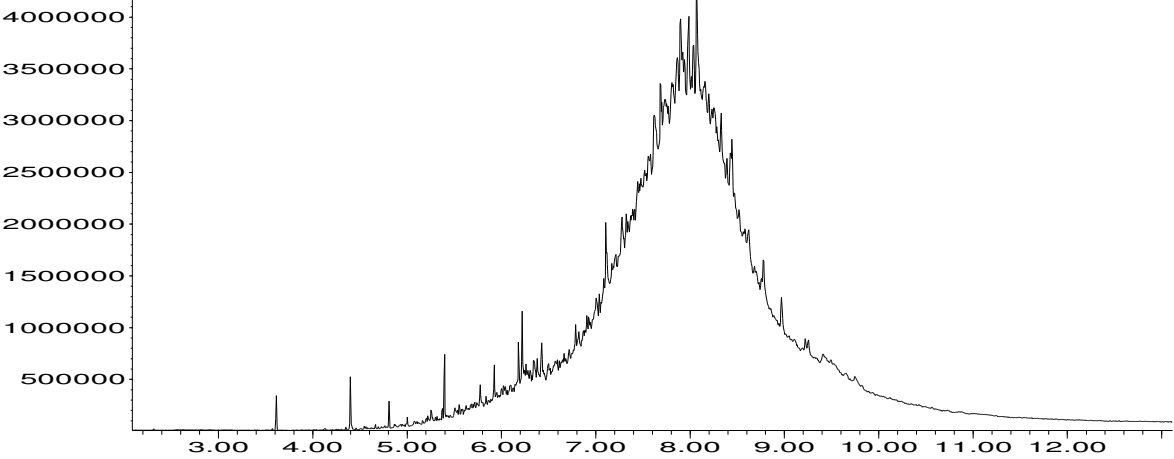
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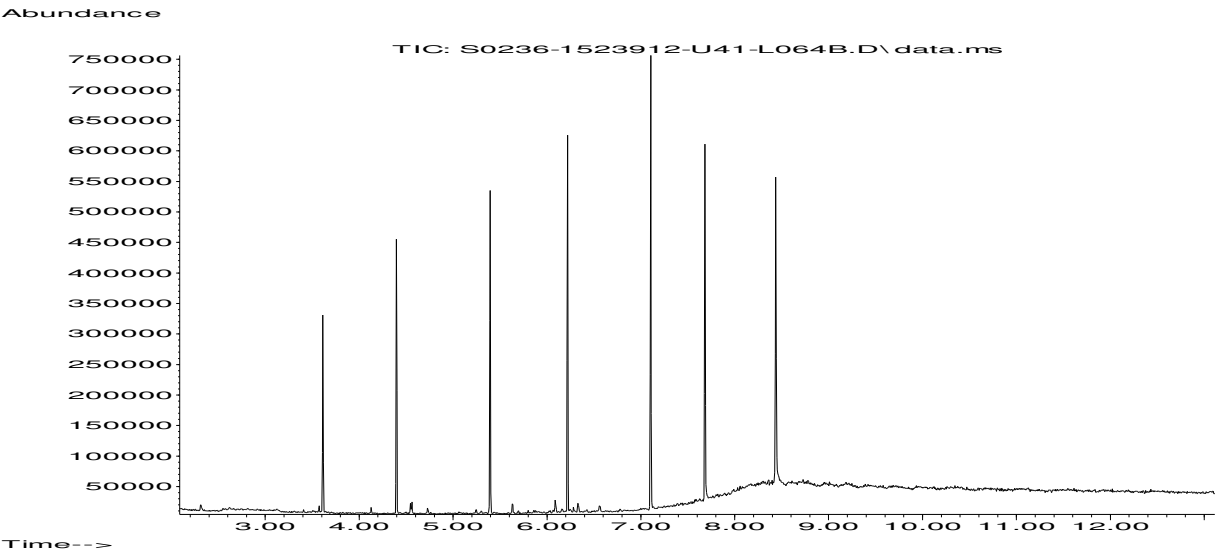
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Abundance

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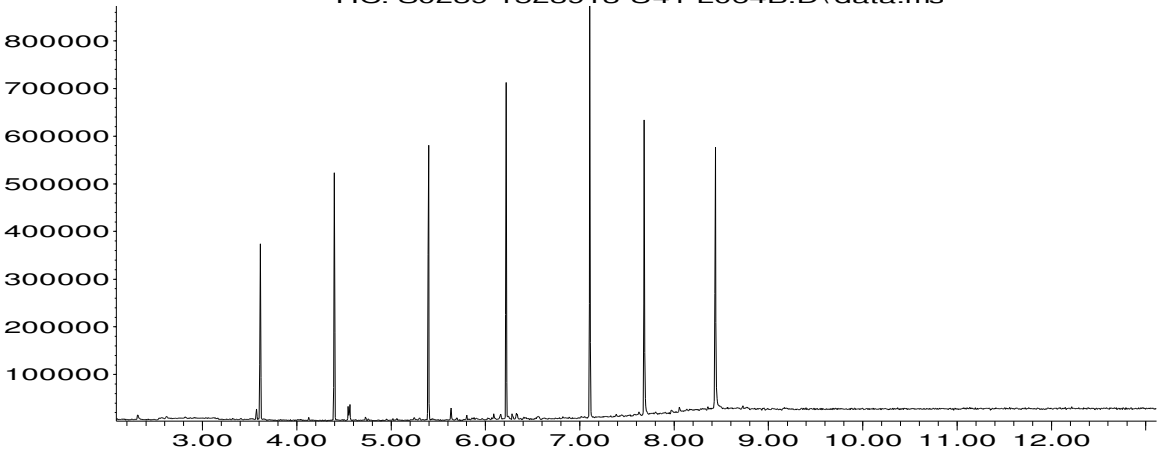


Time-->



Abundance

TIC: S0239-1523913-U41-L064B.D\data.ms



Time-->



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Analytical Report Number : 20-12560

Replaces Analytical Report Number : 20-12560, issue no. 1

Client references/information amended.

Project / Site name:	Dyson Road	Samples received on:	04/06/2020
Your job number:		Sample instructed/ Analysis started on:	04/06/2020
Your order number:	DS54582	Analysis completed by:	10/06/2020
Report Issue Number:	2	Report issued on:	18/06/2020
Samples Analysed:	7 soil samples		

Signed: Caroline Harel

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.

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.

Iss No 20-12560-2 Dyson Road

This certificate should not be reproduced, except in full, without the express permission of the laboratory.
The results included within the report relate only to the sample(s) submitted for testing.

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Analytical Report Number: 20-12560

Project / Site name: Dyson Road

Your Order No: DS54582

Lab Sample Number				1525493	1525494	1525495	1525496	1525497
Sample Reference				DS108	DS108	DS104	DS104	DS104
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.50	2.50	0.40	2.50	4.00
Date Sampled				Deviating	Deviating	Deviating	Deviating	Deviating
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	%	N/A	NONE	14	9.8	15	14	11
Total mass of sample received	kg	0.001	NONE	1.5	1.5	1.5	1.5	1.5

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
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General Inorganics

pH - Automated	pH Units	N/A	MCERTS	8.2	9.0	10.1	8.1	8.1
Total Cyanide	mg/kg	1	MCERTS	-	-	< 1	< 1	-
Complex Cyanide	mg/kg	1	MCERTS	-	-	< 1	< 1	-
Free Cyanide	mg/kg	1	MCERTS	-	-	< 1	< 1	-
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	86	28	1100	320	25
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.043	0.014	0.56	0.16	0.013
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	43.0	14.2	560	162	12.7

Phenols by GC-MS

Phenol	mg/kg	0.2	NONE	-	-	2.0	2.0	-
2,4,5-Trichlorophenol	mg/kg	0.2	NONE	-	-	< 0.2	< 0.2	-
2,4,6-Trichlorophenol	mg/kg	0.1	NONE	-	-	2.0	2.0	-
2,4-Dichlorophenol	mg/kg	0.3	NONE	-	-	4.0	4.0	-
2,4-Dimethylphenol	mg/kg	0.3	NONE	-	-	< 0.3	< 0.3	-
2-Chlorophenol	mg/kg	0.1	NONE	-	-	< 0.1	< 0.1	-
2-Methylphenol	mg/kg	0.3	MCERTS	-	-	< 0.3	< 0.3	-
2-Nitrophenol	mg/kg	0.3	NONE	-	-	2.0	2.0	-
4-Chloro-3-methylphenol	mg/kg	0.1	ISO 17025	-	-	< 0.1	< 0.1	-
4-Methylphenol	mg/kg	0.2	NONE	-	-	< 0.2	< 0.2	-

Total Phenols

Total Phenols (GC-MS)	mg/kg	1	NONE	-	-	10	10	-
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.67	0.31	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.27	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.43	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	1.1	0.52	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	3.7	0.90	< 0.05
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.88	0.27	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	4.1	0.34	< 0.05
Pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	4.1	0.32	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	2.2	< 0.05	< 0.05
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	1.9	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	1.7	< 0.05	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	1.1	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	2.2	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	1.0	< 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	1.3	< 0.05	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	< 0.80	< 0.80	26.8	2.66	< 0.80
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Analytical Report Number: 20-12560

Project / Site name: Dyson Road

Your Order No: DS54582

Lab Sample Number	1525493	1525494	1525495	1525496	1525497
Sample Reference	DS108	DS108	DS104	DS104	DS104
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	0.50	2.50	0.40	2.50	4.00
Date Sampled	Deviating	Deviating	Deviating	Deviating	Deviating
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	8.5	10	13	14	15
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	0.6	< 0.2
Chromium (hexavalent)	mg/kg	1.2	MCERTS	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	22	15	26	24	17
Copper (aqua regia extractable)	mg/kg	1	MCERTS	23	9.5	58	23	4.1
Lead (aqua regia extractable)	mg/kg	1	MCERTS	45	7.1	150	32	6.1
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	0.6	< 0.3	0.8	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	14	20	19	51	18
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	46	23	100	49	21

Monoaromatics & Oxygenates

Benzene	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Toluene	mg/kg	0.001	MCERTS	< 0.001	< 0.001	0.066	< 0.001	< 0.001
Ethylbenzene	mg/kg	0.001	MCERTS	< 0.001	< 0.001	0.054	< 0.001	< 0.001
p & m-xylene	mg/kg	0.001	MCERTS	< 0.001	< 0.001	0.19	0.057	< 0.001
o-xylene	mg/kg	0.001	MCERTS	< 0.001	< 0.001	0.17	0.051	< 0.001
MTBE (Methyl Tertiary Butyl Ether)	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001

Petroleum Hydrocarbons

TPH C10 - C40	mg/kg	10	MCERTS	-	< 10	-	-	-
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	0.51	0.36	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	6.9	< 1.0	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	240	23	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0	< 8.0	1300	180	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	< 8.0	< 8.0	8900	1300	< 8.0
TPH-CWG - Aliphatic >EC35 - EC40	mg/kg	10	NONE	< 10	< 10	660	91	< 10
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10	10000	1500	< 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	0.066	< 0.001	< 0.001
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	1.0	0.35	< 0.001
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	16	< 1.0	< 1.0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	120	15	< 2.0
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10	< 10	410	66	< 10
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	< 10	< 10	2100	370	< 10
TPH-CWG - Aromatic >EC35 - EC40	mg/kg	10	NONE	< 10	< 10	310	33	< 10
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10	2700	450	< 10
TPH (C35 - C40)	mg/kg	10	MCERTS	< 10	< 10	970	120	< 10



Analytical Report Number: 20-12560

Project / Site name: Dyson Road

Your Order No: DS54582

Lab Sample Number	1525493	1525494	1525495	1525496	1525497
Sample Reference	DS108	DS108	DS104	DS104	DS104
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	0.50	2.50	0.40	2.50	4.00
Date Sampled	Deviating	Deviating	Deviating	Deviating	Deviating
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		

VOCs

Chloromethane	mg/kg	0.001	ISO 17025	-	-	< 0.0010	< 0.0010	-
Chloroethane	mg/kg	0.001	NONE	-	-	< 0.0010	< 0.0010	-
Bromomethane	mg/kg	0.001	ISO 17025	-	-	< 0.0010	< 0.0010	-
Vinyl Chloride	mg/kg	0.001	NONE	-	-	< 0.0010	< 0.0010	-
Trichlorofluoromethane	mg/kg	0.001	NONE	-	-	< 0.0010	< 0.0010	-
1,1-Dichloroethene	mg/kg	0.001	NONE	-	-	< 0.0010	< 0.0010	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	mg/kg	0.001	ISO 17025	-	-	< 0.0010	< 0.0010	-
Cis-1,2-dichloroethene	mg/kg	0.001	MCERTS	-	-	< 0.0010	< 0.0010	-
MTBE (Methyl Tertiary Butyl Ether)	mg/kg	0.001	MCERTS	-	-	< 0.0010	< 0.0010	-
1,1-Dichloroethane	mg/kg	0.001	MCERTS	-	-	< 0.0010	< 0.0010	-
2,2-Dichloropropane	mg/kg	0.001	MCERTS	-	-	< 0.0010	< 0.0010	-
Trichloromethane	mg/kg	0.001	MCERTS	-	-	< 0.0010	< 0.0010	-
1,1,1-Trichloroethane	mg/kg	0.001	MCERTS	-	-	< 0.0010	< 0.0010	-
1,2-Dichloroethane	mg/kg	0.001	MCERTS	-	-	< 0.0010	< 0.0010	-
1,1-Dichloropropene	mg/kg	0.001	MCERTS	-	-	< 0.0010	< 0.0010	-
Trans-1,2-dichloroethene	mg/kg	0.001	NONE	-	-	< 0.0010	< 0.0010	-
Benzene	mg/kg	0.001	MCERTS	-	-	< 0.0010	< 0.0010	-
Tetrachloromethane	mg/kg	0.001	MCERTS	-	-	< 0.0010	< 0.0010	-
1,2-Dichloropropane	mg/kg	0.001	MCERTS	-	-	< 0.0010	< 0.0010	-
Trichloroethene	mg/kg	0.001	MCERTS	-	-	< 0.0010	< 0.0010	-
Dibromomethane	mg/kg	0.001	MCERTS	-	-	< 0.0010	< 0.0010	-
Bromodichloromethane	mg/kg	0.001	MCERTS	-	-	< 0.0010	< 0.0010	-
Cis-1,3-dichloropropene	mg/kg	0.001	ISO 17025	-	-	< 0.0010	< 0.0010	-
Trans-1,3-dichloropropene	mg/kg	0.001	ISO 17025	-	-	< 0.0010	< 0.0010	-
Toluene	mg/kg	0.001	MCERTS	-	-	0.066	< 0.0010	-
1,1,2-Trichloroethane	mg/kg	0.001	MCERTS	-	-	< 0.0010	< 0.0010	-
1,3-Dichloropropane	mg/kg	0.001	ISO 17025	-	-	< 0.0010	< 0.0010	-
Dibromochloromethane	mg/kg	0.001	ISO 17025	-	-	< 0.0010	< 0.0010	-
Tetrachloroethene	mg/kg	0.001	NONE	-	-	< 0.0010	< 0.0010	-
1,2-Dibromoethane	mg/kg	0.001	ISO 17025	-	-	< 0.0010	< 0.0010	-
Chlorobenzene	mg/kg	0.001	MCERTS	-	-	< 0.0010	< 0.0010	-
1,1,1,2-Tetrachloroethane	mg/kg	0.001	MCERTS	-	-	< 0.0010	< 0.0010	-
Ethylbenzene	mg/kg	0.001	MCERTS	-	-	0.055	< 0.0010	-
p & m-Xylene	mg/kg	0.001	MCERTS	-	-	0.19	0.057	-
Styrene	mg/kg	0.001	MCERTS	-	-	< 0.0010	< 0.0010	-
Tribromomethane	mg/kg	0.001	NONE	-	-	< 0.0010	< 0.0010	-
o-Xylene	mg/kg	0.001	MCERTS	-	-	0.17	0.051	-
1,1,2,2-Tetrachloroethane	mg/kg	0.001	MCERTS	-	-	< 0.0010	< 0.0010	-
Isopropylbenzene	mg/kg	0.001	MCERTS	-	-	0.010	< 0.0010	-
Bromobenzene	mg/kg	0.001	MCERTS	-	-	< 0.0010	< 0.0010	-
n-Propylbenzene	mg/kg	0.001	ISO 17025	-	-	0.030	< 0.0010	-
2-Chlorotoluene	mg/kg	0.001	MCERTS	-	-	< 0.0010	< 0.0010	-
4-Chlorotoluene	mg/kg	0.001	MCERTS	-	-	< 0.0010	< 0.0010	-
1,3,5-Trimethylbenzene	mg/kg	0.001	ISO 17025	-	-	0.15	0.038	-
tert-Butylbenzene	mg/kg	0.001	MCERTS	-	-	< 0.0010	< 0.0010	-
1,2,4-Trimethylbenzene	mg/kg	0.001	ISO 17025	-	-	0.43	0.20	-
sec-Butylbenzene	mg/kg	0.001	MCERTS	-	-	0.0082	< 0.0010	-
1,3-Dichlorobenzene	mg/kg	0.001	ISO 17025	-	-	< 0.0010	< 0.0010	-
p-Isopropyltoluene	mg/kg	0.001	ISO 17025	-	-	0.0082	< 0.0010	-
1,2-Dichlorobenzene	mg/kg	0.001	MCERTS	-	-	< 0.0010	< 0.0010	-
1,4-Dichlorobenzene	mg/kg	0.001	MCERTS	-	-	< 0.0010	< 0.0010	-
Butylbenzene	mg/kg	0.001	MCERTS	-	-	0.014	< 0.0010	-
1,2-Dibromo-3-chloropropane	mg/kg	0.001	ISO 17025	-	-	< 0.0010	< 0.0010	-
1,2,4-Trichlorobenzene	mg/kg	0.001	MCERTS	-	-	< 0.0010	< 0.0010	-
Hexachlorobutadiene	mg/kg	0.001	MCERTS	-	-	< 0.0010	< 0.0010	-
1,2,3-Trichlorobenzene	mg/kg	0.001	ISO 17025	-	-	< 0.0010	< 0.0010	-



Analytical Report Number: 20-12560

Project / Site name: Dyson Road

Your Order No: DS54582

Lab Sample Number				1525493	1525494	1525495	1525496	1525497
Sample Reference				DS108	DS108	DS104	DS104	DS104
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.50	2.50	0.40	2.50	4.00
Date Sampled				Deviating	Deviating	Deviating	Deviating	Deviating
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)				Units	Limit of detection	Accreditation Status		

VOCs TICs

VOCs TICs Compound Name		N/A	NONE	-	-	Naphthalene, decahydro-	ND	-
VOC % Match	%	N/A	NONE	-	-	95	0	-
VOCs TICs Compound Name		N/A	NONE	-	-	Benzene, 1,2,3,5- tetramethyl-		-
VOC % Match	%	N/A	NONE	-	-	93		-

Analytical Report Number: 20-12560

Project / Site name: Dyson Road

Your Order No: DS54582

Lab Sample Number	1525493	1525494	1525495	1525496	1525497
Sample Reference	DS108	DS108	DS104	DS104	DS104
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	0.50	2.50	0.40	2.50	4.00
Date Sampled	Deviating	Deviating	Deviating	Deviating	Deviating
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		

SVOCs

Aniline	mg/kg	0.1	NONE	-	-	< 0.1	< 0.1	-
Phenol	mg/kg	0.2	ISO 17025	-	-	2.0	2.0	-
2-Chlorophenol	mg/kg	0.1	MCERTS	-	-	< 0.1	< 0.1	-
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	-	-	1.0	1.0	-
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	< 0.2	< 0.2	-
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	-	-	1.0	1.0	-
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	< 0.2	< 0.2	-
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	-	-	2.0	2.0	-
2-Methylphenol	mg/kg	0.3	MCERTS	-	-	< 0.3	< 0.3	-
Hexachloroethane	mg/kg	0.05	MCERTS	-	-	< 0.05	< 0.05	-
Nitrobenzene	mg/kg	0.3	MCERTS	-	-	< 0.3	< 0.3	-
4-Methylphenol	mg/kg	0.2	NONE	-	-	< 0.2	< 0.2	-
Isophorone	mg/kg	0.2	MCERTS	-	-	< 0.2	< 0.2	-
2-Nitrophenol	mg/kg	0.3	MCERTS	-	-	2.0	2.0	-
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	-	-	< 0.3	< 0.3	-
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	-	-	1.0	1.0	-
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	-	-	< 0.3	< 0.3	-
Naphthalene	mg/kg	0.05	MCERTS	-	-	0.67	0.31	-
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	-	-	4.0	4.0	-
4-Chloroaniline	mg/kg	0.1	NONE	-	-	< 0.1	< 0.1	-
Hexachlorobutadiene	mg/kg	0.1	MCERTS	-	-	4.0	4.0	-
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	-	-	< 0.1	< 0.1	-
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	-	-	2.0	2.0	-
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	-	-	< 0.2	< 0.2	-
2-Methylnaphthalene	mg/kg	0.1	NONE	-	-	2.0	2.0	-
2-Chloronaphthalene	mg/kg	0.1	MCERTS	-	-	< 0.1	< 0.1	-
Dimethylphthalate	mg/kg	0.1	MCERTS	-	-	2.0	2.0	-
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	-	-	< 0.1	< 0.1	-
Acenaphthylene	mg/kg	0.05	MCERTS	-	-	0.27	< 0.05	-
Acenaphthene	mg/kg	0.05	MCERTS	-	-	0.43	< 0.05	-
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	-	-	< 0.2	< 0.2	-
Dibenzofuran	mg/kg	0.2	MCERTS	-	-	4.0	4.0	-
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	-	-	< 0.3	< 0.3	-
Diethyl phthalate	mg/kg	0.2	MCERTS	-	-	4.0	4.0	-
4-Nitroaniline	mg/kg	0.2	MCERTS	-	-	< 0.2	< 0.2	-
Fluorene	mg/kg	0.05	MCERTS	-	-	1.1	0.52	-
Azobenzene	mg/kg	0.3	MCERTS	-	-	< 0.3	< 0.3	-
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	-	-	< 0.2	< 0.2	-
Hexachlorobenzene	mg/kg	0.3	MCERTS	-	-	< 0.3	< 0.3	-
Phenanthrene	mg/kg	0.05	MCERTS	-	-	3.7	0.90	-
Anthracene	mg/kg	0.05	MCERTS	-	-	0.88	0.27	-
Carbazole	mg/kg	0.3	MCERTS	-	-	< 0.3	< 0.3	-
Dibutyl phthalate	mg/kg	0.2	MCERTS	-	-	< 0.2	< 0.2	-
Anthraquinone	mg/kg	0.3	MCERTS	-	-	< 0.3	< 0.3	-
Fluoranthene	mg/kg	0.05	MCERTS	-	-	4.1	0.34	-
Pyrene	mg/kg	0.05	MCERTS	-	-	4.1	0.32	-
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	-	-	< 0.3	< 0.3	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	-	2.2	< 0.05	-
Chrysene	mg/kg	0.05	MCERTS	-	-	1.9	< 0.05	-
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	-	-	1.7	< 0.05	-
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	-	-	1.1	< 0.05	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	-	2.2	< 0.05	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	-	1.0	< 0.05	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	-	< 0.05	< 0.05	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	-	1.3	< 0.05	-

Analytical Report Number: 20-12560

Project / Site name: Dyson Road

Your Order No: DS54582

Lab Sample Number	1525493	1525494	1525495	1525496	1525497
Sample Reference	DS108	DS108	DS104	DS104	DS104
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	0.50	2.50	0.40	2.50	4.00
Date Sampled	Deviating	Deviating	Deviating	Deviating	Deviating
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		

SVOCs TICs

SVOCs TICs Compound Name		N/A	NONE	-	-	Tetratriacontane	Eicosane	-
SVOC % Match	%	N/A	NONE	-	-	99	96	-
SVOCs TICs Compound Name		N/A	NONE	-	-	Pentadecane	Naphthalene, 1,6-dimethyl-	-
SVOC % Match	%	N/A	NONE	-	-	98	95	-
SVOCs TICs Compound Name		N/A	NONE	-	-	Hexadecane	1-Eicosene	-
SVOC % Match	%	N/A	NONE	-	-	98	95	-
SVOCs TICs Compound Name		N/A	NONE	-	-	Heptadecane	1-Hexacosene	-
SVOC % Match	%	N/A	NONE	-	-	98	95	-
SVOCs TICs Compound Name		N/A	NONE	-	-	Octadecane	Hexacosane	-
SVOC % Match	%	N/A	NONE	-	-	98	95	-
SVOCs TICs Compound Name		N/A	NONE	-	-	Eicosane	Cyclotriacontane	-
SVOC % Match	%	N/A	NONE	-	-	98	95	-
SVOCs TICs Compound Name		N/A	NONE	-	-	Heneicosane	Nonadecane	-
SVOC % Match	%	N/A	NONE	-	-	97	94	-
SVOCs TICs Compound Name		N/A	NONE	-	-	Hexacosane	Octacosane	-
SVOC % Match	%	N/A	NONE	-	-	97	94	-
SVOCs TICs Compound Name		N/A	NONE	-	-	Hexatriacontane	Pentatriacontane	-
SVOC % Match	%	N/A	NONE	-	-	97	94	-
SVOCs TICs Compound Name		N/A	NONE	-	-	Tetradecane	Cyclotetradecane, 1,7,11-trimethyl-4-(1-methylethyl)-	-
SVOC % Match	%	N/A	NONE	-	-	96	93	-

Analytical Report Number: 20-12560

Project / Site name: Dyson Road

Your Order No: DS54582

Lab Sample Number				1525498	1525499			
Sample Reference				DS101	DS101			
Sample Number				None Supplied	None Supplied			
Depth (m)				1.50	3.50			
Date Sampled				Deviating	Deviating			
Time Taken				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	%	N/A	NONE	7.3	4.7			
Total mass of sample received	kg	0.001	NONE	1.5	1.5			

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected			
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General Inorganics

pH - Automated	pH Units	N/A	MCERTS	7.7	8.0			
Total Cyanide	mg/kg	1	MCERTS	-	< 1			
Complex Cyanide	mg/kg	1	MCERTS	-	< 1			
Free Cyanide	mg/kg	1	MCERTS	-	< 1			
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	86	44			
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.043	0.022			
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	42.9	21.9			

Phenols by GC-MS

Phenol	mg/kg	0.2	NONE	-	2.0			
2,4,5-Trichlorophenol	mg/kg	0.2	NONE	-	< 0.2			
2,4,6-Trichlorophenol	mg/kg	0.1	NONE	-	2.0			
2,4-Dichlorophenol	mg/kg	0.3	NONE	-	4.0			
2,4-Dimethylphenol	mg/kg	0.3	NONE	-	< 0.3			
2-Chlorophenol	mg/kg	0.1	NONE	-	< 0.1			
2-Methylphenol	mg/kg	0.3	MCERTS	-	< 0.3			
2-Nitrophenol	mg/kg	0.3	NONE	-	2.0			
4-Chloro-3-methylphenol	mg/kg	0.1	ISO 17025	-	< 0.1			
4-Methylphenol	mg/kg	0.2	NONE	-	< 0.2			

Total Phenols

Total Phenols (GC-MS)	mg/kg	1	NONE	-	10			
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	0.30	< 0.05			
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05			
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05			
Fluorene	mg/kg	0.05	MCERTS	0.54	< 0.05			
Phenanthrene	mg/kg	0.05	MCERTS	0.95	< 0.05			
Anthracene	mg/kg	0.05	MCERTS	0.25	< 0.05			
Fluoranthene	mg/kg	0.05	MCERTS	0.40	< 0.05			
Pyrene	mg/kg	0.05	MCERTS	0.45	< 0.05			
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05			
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05			
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05			
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05			
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05			
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05			
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05			
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05			

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	2.89	< 0.80			
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Analytical Report Number: 20-12560

Project / Site name: Dyson Road

Your Order No: DS54582

Lab Sample Number				1525498	1525499			
Sample Reference				DS101	DS101			
Sample Number				None Supplied	None Supplied			
Depth (m)				1.50	3.50			
Date Sampled				Deviating	Deviating			
Time Taken				None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Heavy Metals / Metalloids								
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	15	17			
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2			
Chromium (hexavalent)	mg/kg	1.2	MCERTS	< 1.2	< 1.2			
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	27	15			
Copper (aqua regia extractable)	mg/kg	1	MCERTS	17	6.5			
Lead (aqua regia extractable)	mg/kg	1	MCERTS	12	6.1			
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3			
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	31	21			
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	51	19			
Monoaromatics & Oxygenates								
Benzene	mg/kg	0.001	MCERTS	< 0.001	< 0.001			
Toluene	mg/kg	0.001	MCERTS	< 0.001	< 0.001			
Ethylbenzene	mg/kg	0.001	MCERTS	0.014	< 0.001			
p & m-xylene	mg/kg	0.001	MCERTS	0.009	< 0.001			
o-xylene	mg/kg	0.001	MCERTS	0.055	< 0.001			
MTBE (Methyl Tertiary Butyl Ether)	mg/kg	0.001	MCERTS	< 0.001	< 0.001			
Petroleum Hydrocarbons								
TPH C10 - C40	mg/kg	10	MCERTS	-	< 10			
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	1.3	< 1.0			
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	58	< 2.0			
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	320	< 8.0			
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	2700	< 8.0			
TPH-CWG - Aliphatic >EC35 - EC40	mg/kg	10	NONE	210	< 10			
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	3100	< 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	0.23	< 0.001			
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	2.9	< 1.0			
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	56	< 2.0			
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	260	< 10			
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	1600	< 10			
TPH-CWG - Aromatic >EC35 - EC40	mg/kg	10	NONE	150	< 10			
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	1900	< 10			
TPH (C35 - C40)	mg/kg	10	MCERTS	360	< 10			

Analytical Report Number: 20-12560

Project / Site name: Dyson Road

Your Order No: DS54582

Lab Sample Number				1525498	1525499			
Sample Reference				DS101	DS101			
Sample Number				None Supplied	None Supplied			
Depth (m)				1.50	3.50			
Date Sampled				Deviating	Deviating			
Time Taken				None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
VOCs								
Chloromethane	mg/kg	0.001	ISO 17025	< 0.0010	< 0.0010			
Chloroethane	mg/kg	0.001	NONE	< 0.0010	< 0.0010			
Bromomethane	mg/kg	0.001	ISO 17025	< 0.0010	< 0.0010			
Vinyl Chloride	mg/kg	0.001	NONE	< 0.0010	< 0.0010			
Trichlorofluoromethane	mg/kg	0.001	NONE	< 0.0010	< 0.0010			
1,1-Dichloroethene	mg/kg	0.001	NONE	< 0.0010	< 0.0010			
1,1,2-Trichloro 1,2,2-Trifluoroethane	mg/kg	0.001	ISO 17025	< 0.0010	< 0.0010			
Cis-1,2-dichloroethene	mg/kg	0.001	MCERTS	< 0.0010	< 0.0010			
MTBE (Methyl Tertiary Butyl Ether)	mg/kg	0.001	MCERTS	< 0.0010	< 0.0010			
1,1-Dichloroethane	mg/kg	0.001	MCERTS	< 0.0010	< 0.0010			
2,2-Dichloropropane	mg/kg	0.001	MCERTS	< 0.0010	< 0.0010			
Trichloromethane	mg/kg	0.001	MCERTS	< 0.0010	< 0.0010			
1,1,1-Trichloroethane	mg/kg	0.001	MCERTS	< 0.0010	< 0.0010			
1,2-Dichloroethane	mg/kg	0.001	MCERTS	< 0.0010	< 0.0010			
1,1-Dichloropropene	mg/kg	0.001	MCERTS	< 0.0010	< 0.0010			
Trans-1,2-dichloroethene	mg/kg	0.001	NONE	< 0.0010	< 0.0010			
Benzene	mg/kg	0.001	MCERTS	< 0.0010	< 0.0010			
Tetrachloromethane	mg/kg	0.001	MCERTS	< 0.0010	< 0.0010			
1,2-Dichloropropane	mg/kg	0.001	MCERTS	< 0.0010	< 0.0010			
Trichloroethene	mg/kg	0.001	MCERTS	< 0.0010	< 0.0010			
Dibromomethane	mg/kg	0.001	MCERTS	< 0.0010	< 0.0010			
Bromodichloromethane	mg/kg	0.001	MCERTS	< 0.0010	< 0.0010			
Cis-1,3-dichloropropene	mg/kg	0.001	ISO 17025	< 0.0010	< 0.0010			
Trans-1,3-dichloropropene	mg/kg	0.001	ISO 17025	< 0.0010	< 0.0010			
Toluene	mg/kg	0.001	MCERTS	< 0.0010	< 0.0010			
1,1,2-Trichloroethane	mg/kg	0.001	MCERTS	< 0.0010	< 0.0010			
1,3-Dichloropropane	mg/kg	0.001	ISO 17025	< 0.0010	< 0.0010			
Dibromochloromethane	mg/kg	0.001	ISO 17025	< 0.0010	< 0.0010			
Tetrachloroethene	mg/kg	0.001	NONE	< 0.0010	< 0.0010			
1,2-Dibromoethane	mg/kg	0.001	ISO 17025	< 0.0010	< 0.0010			
Chlorobenzene	mg/kg	0.001	MCERTS	< 0.0010	< 0.0010			
1,1,1,2-Tetrachloroethane	mg/kg	0.001	MCERTS	< 0.0010	< 0.0010			
Ethylbenzene	mg/kg	0.001	MCERTS	0.014	< 0.0010			
p & m-Xylene	mg/kg	0.001	MCERTS	0.0087	< 0.0010			
Styrene	mg/kg	0.001	MCERTS	< 0.0010	< 0.0010			
Tribromomethane	mg/kg	0.001	NONE	< 0.0010	< 0.0010			
o-Xylene	mg/kg	0.001	MCERTS	0.056	< 0.0010			
1,1,2,2-Tetrachloroethane	mg/kg	0.001	MCERTS	< 0.0010	< 0.0010			
Isopropylbenzene	mg/kg	0.001	MCERTS	0.0058	< 0.0010			
Bromobenzene	mg/kg	0.001	MCERTS	< 0.0010	< 0.0010			
n-Propylbenzene	mg/kg	0.001	ISO 17025	0.027	< 0.0010			
2-Chlorotoluene	mg/kg	0.001	MCERTS	< 0.0010	< 0.0010			
4-Chlorotoluene	mg/kg	0.001	MCERTS	< 0.0010	< 0.0010			
1,3,5-Trimethylbenzene	mg/kg	0.001	ISO 17025	0.085	< 0.0010			
tert-Butylbenzene	mg/kg	0.001	MCERTS	< 0.0010	< 0.0010			
1,2,4-Trimethylbenzene	mg/kg	0.001	ISO 17025	0.034	< 0.0010			
sec-Butylbenzene	mg/kg	0.001	MCERTS	0.0048	< 0.0010			
1,3-Dichlorobenzene	mg/kg	0.001	ISO 17025	< 0.0010	< 0.0010			
p-Isopropyltoluene	mg/kg	0.001	ISO 17025	0.0042	< 0.0010			
1,2-Dichlorobenzene	mg/kg	0.001	MCERTS	< 0.0010	< 0.0010			
1,4-Dichlorobenzene	mg/kg	0.001	MCERTS	< 0.0010	< 0.0010			
Butylbenzene	mg/kg	0.001	MCERTS	0.013	< 0.0010			
1,2-Dibromo-3-chloropropane	mg/kg	0.001	ISO 17025	< 0.0010	< 0.0010			
1,2,4-Trichlorobenzene	mg/kg	0.001	MCERTS	< 0.0010	< 0.0010			
Hexachlorobutadiene	mg/kg	0.001	MCERTS	< 0.0010	< 0.0010			
1,2,3-Trichlorobenzene	mg/kg	0.001	ISO 17025	< 0.0010	< 0.0010			



Analytical Report Number: 20-12560

Project / Site name: Dyson Road

Your Order No: DS54582

Lab Sample Number				1525498	1525499			
Sample Reference				DS101	DS101			
Sample Number				None Supplied	None Supplied			
Depth (m)				1.50	3.50			
Date Sampled				Deviating	Deviating			
Time Taken				None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)				Units	Limit of detection	Accreditation Status		
VOCs TICs								
VOCs TICs Compound Name					N/A	NONE	Benzene, 1,2,3,4-tetramethyl-	ND
VOC % Match				%	N/A	NONE	97	0
VOCs TICs Compound Name					N/A	NONE	Benzene, 2-ethyl-1,4-dimethyl-	
VOC % Match				%	N/A	NONE	93	

Analytical Report Number: 20-12560

Project / Site name: Dyson Road

Your Order No: DS54582

Lab Sample Number				1525498	1525499			
Sample Reference				DS101	DS101			
Sample Number				None Supplied	None Supplied			
Depth (m)				1.50	3.50			
Date Sampled				Deviating	Deviating			
Time Taken				None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
SVOCs								
Aniline	mg/kg	0.1	NONE	< 0.1	< 0.1			
Phenol	mg/kg	0.2	ISO 17025	2.0	2.0			
2-Chlorophenol	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	1.0	1.0			
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2			
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	1.0	1.0			
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2			
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	2.0	2.0			
2-Methylphenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3			
Hexachloroethane	mg/kg	0.05	MCERTS	< 0.05	< 0.05			
Nitrobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3			
4-Methylphenol	mg/kg	0.2	NONE	< 0.2	< 0.2			
Isophorone	mg/kg	0.2	MCERTS	< 0.2	< 0.2			
2-Nitrophenol	mg/kg	0.3	MCERTS	2.0	2.0			
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3			
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	1.0	1.0			
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3			
Naphthalene	mg/kg	0.05	MCERTS	0.30	< 0.05			
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	4.0	4.0			
4-Chloroaniline	mg/kg	0.1	NONE	< 0.1	< 0.1			
Hexachlorobutadiene	mg/kg	0.1	MCERTS	4.0	4.0			
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	< 0.1	< 0.1			
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	2.0	2.0			
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	< 0.2	< 0.2			
2-Methylnaphthalene	mg/kg	0.1	NONE	2.0	2.0			
2-Chloronaphthalene	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
Dimethylphthalate	mg/kg	0.1	MCERTS	2.0	2.0			
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05			
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05			
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	< 0.2	< 0.2			
Dibenzofuran	mg/kg	0.2	MCERTS	4.0	4.0			
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	< 0.3	< 0.3			
Diethyl phthalate	mg/kg	0.2	MCERTS	4.0	4.0			
4-Nitroaniline	mg/kg	0.2	MCERTS	< 0.2	< 0.2			
Fluorene	mg/kg	0.05	MCERTS	0.54	< 0.05			
Azobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3			
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	< 0.2	< 0.2			
Hexachlorobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3			
Phenanthrene	mg/kg	0.05	MCERTS	0.95	< 0.05			
Anthracene	mg/kg	0.05	MCERTS	0.25	< 0.05			
Carbazole	mg/kg	0.3	MCERTS	< 0.3	< 0.3			
Dibutyl phthalate	mg/kg	0.2	MCERTS	< 0.2	< 0.2			
Anthraquinone	mg/kg	0.3	MCERTS	< 0.3	< 0.3			
Fluoranthene	mg/kg	0.05	MCERTS	0.40	< 0.05			
Pyrene	mg/kg	0.05	MCERTS	0.45	< 0.05			
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	< 0.3	< 0.3			
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05			
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05			
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05			
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05			
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05			
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05			
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05			
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05			

Analytical Report Number: 20-12560

Project / Site name: Dyson Road

Your Order No: DS54582

Lab Sample Number				1525498	1525499			
Sample Reference				DS101	DS101			
Sample Number				None Supplied	None Supplied			
Depth (m)				1.50	3.50			
Date Sampled				Deviating	Deviating			
Time Taken				None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					

SVOCs TICs

SVOCs TICs Compound Name		N/A	NONE	Tetratriacontane	ND			
SVOC % Match	%	N/A	NONE	99	0			
SVOCs TICs Compound Name		N/A	NONE	Pentadecane, 2,6,10,14- tetramethyl-				
SVOC % Match	%	N/A	NONE	98				
SVOCs TICs Compound Name		N/A	NONE	1-Hexacosene				
SVOC % Match	%	N/A	NONE	97				
SVOCs TICs Compound Name		N/A	NONE	Hexacosane				
SVOC % Match	%	N/A	NONE	97				
SVOCs TICs Compound Name		N/A	NONE	Hexadecane, 2,6,10,14- tetramethyl-				
SVOC % Match	%	N/A	NONE	96				
SVOCs TICs Compound Name		N/A	NONE	Tricosane				
SVOC % Match	%	N/A	NONE	96				
SVOCs TICs Compound Name		N/A	NONE	Eicosane				
SVOC % Match	%	N/A	NONE	96				
SVOCs TICs Compound Name		N/A	NONE	Pentatriacontane				
SVOC % Match	%	N/A	NONE	96				
SVOCs TICs Compound Name		N/A	NONE	Naphthalene, 2,7- dimethyl-				
SVOC % Match	%	N/A	NONE	95				
SVOCs TICs Compound Name		N/A	NONE	1-Eicosene				
SVOC % Match	%	N/A	NONE	95				



Analytical Report Number : 20-12560

Project / Site name: Dyson Road

* 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 *
1525493	DS108	None Supplied	0.50	Brown clay and sand with gravel.
1525494	DS108	None Supplied	2.50	Brown sand with gravel.
1525495	DS104	None Supplied	0.40	Brown clay and sand with gravel.
1525496	DS104	None Supplied	2.50	Brown clay and sand with gravel.
1525497	DS104	None Supplied	4.00	Brown sand with gravel.
1525498	DS101	None Supplied	1.50	Brown clay and sand with gravel.
1525499	DS101	None Supplied	3.50	Brown sand with gravel.

Analytical Report Number : 20-12560

Project / Site name: Dyson Road

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Water (PrW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
BTEX and MTBE in soil (Monoaromatics)	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS
Complex Cyanide in soil	Determination of complex cyanide by calculation.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Free cyanide in soil	Determination of free cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Hexavalent chromium in soil (Lower Level)	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 dphenylcarbazine followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In house method.	L099-PL	D	MCERTS
Phenols, speciated, in soil, by GCMS	Determination of speciated phenols in soil by extraction in dichloromethane and hexane followed by GC-MS.	In-house method based on USEPA 8270	L064-PL	D	NONE
Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds in soil by extraction in dichloromethane and hexane followed by GC-MS.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
Speciated EPA-16 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Sulphate, water soluble, in soil (16hr extraction)	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In house method.	L038-PL	D	MCERTS
Tentatively identified compounds (SVOC) in soil	Determination of semi-volatile organic compounds total ion count in soil by extraction with dichloromethane and hexane followed by GC-MS followed by a full library scan.	In-house method based on USEPA 8270	L064-PL	D	NONE
Tentatively identified compounds (VOC) in soil	Determination of volatile organic compounds total ion count in soil by headspace GC-MS followed by a full library scan.	In-house method based on USEPA8260	L073-PL	W	NONE
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
TPH Banding in Soil by FID	Determination of hexane extractable hydrocarbons in soil by GC-FID.	In-house method, TPH with carbon banding and silica gel split/cleanup.	L076-PL	W	MCERTS

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The results included within the report relate only to the sample(s) submitted for testing.

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Analytical Report Number : 20-12560

Project / Site name: Dyson Road

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Water (PrW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
TPH Chromatogram in Soil	TPH Chromatogram in Soil.	In-house method	L064-PL	D	NONE
TPH in (Soil)	Determination of TPH bands by HS-GC-MS/GC-FID	In-house method, TPH with carbon banding and silica gel split/cleanup.	L076-PL	D	NONE
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method with silica gel split/cleanup.	L088/76-PL	W	MCERTS
Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

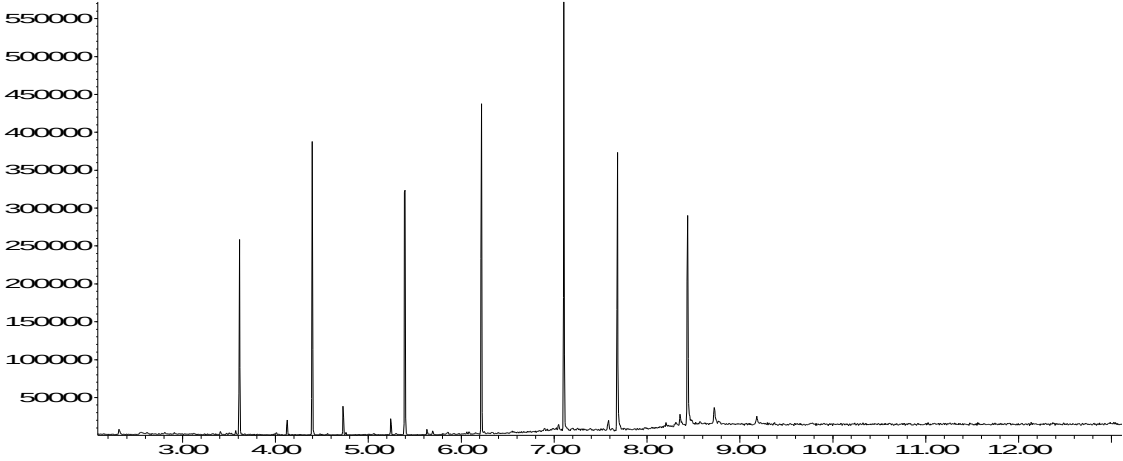
For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

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

Sample ID	Other_ID	Sample Type	Job	Sample Number	Sample Deviation Code	test_name	test_ref	Test Deviation code
DS101		S	20-12560	1525498	a			
DS101		S	20-12560	1525499	a			
DS102		S	20-12560	1525492	a			
DS104		S	20-12560	1525495	a			
DS104		S	20-12560	1525496	a			
DS104		S	20-12560	1525497	a			
DS108		S	20-12560	1525493	a			
DS108		S	20-12560	1525494	a			

Abundance

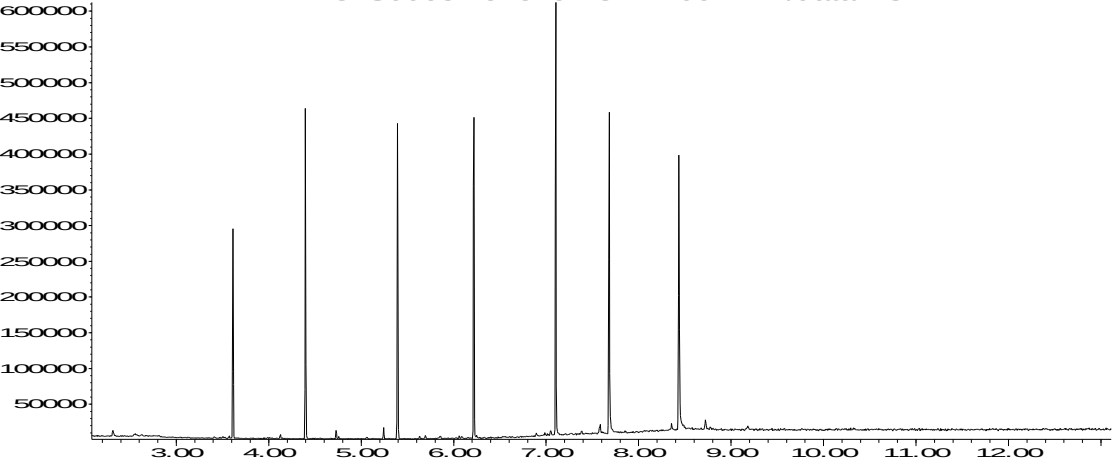
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Time-->

Abundance

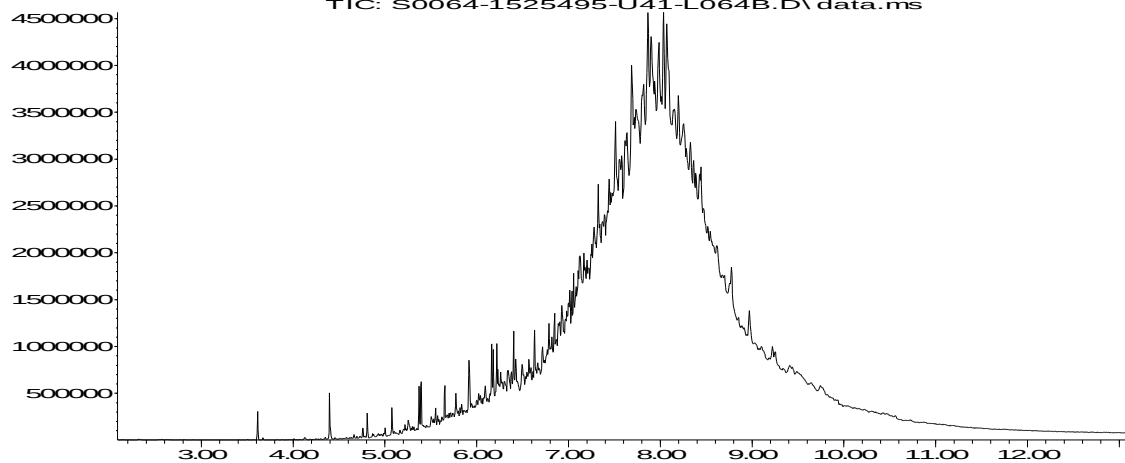
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Time-->

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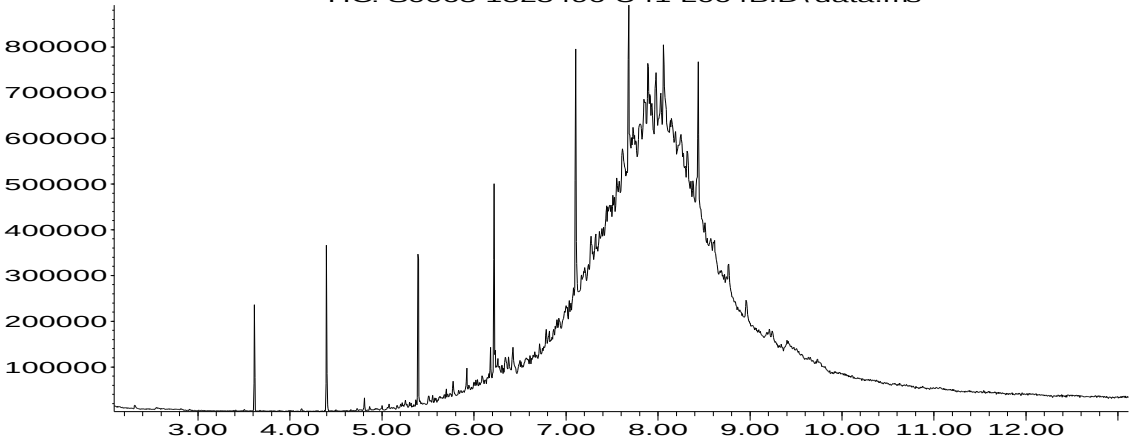
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Time-->

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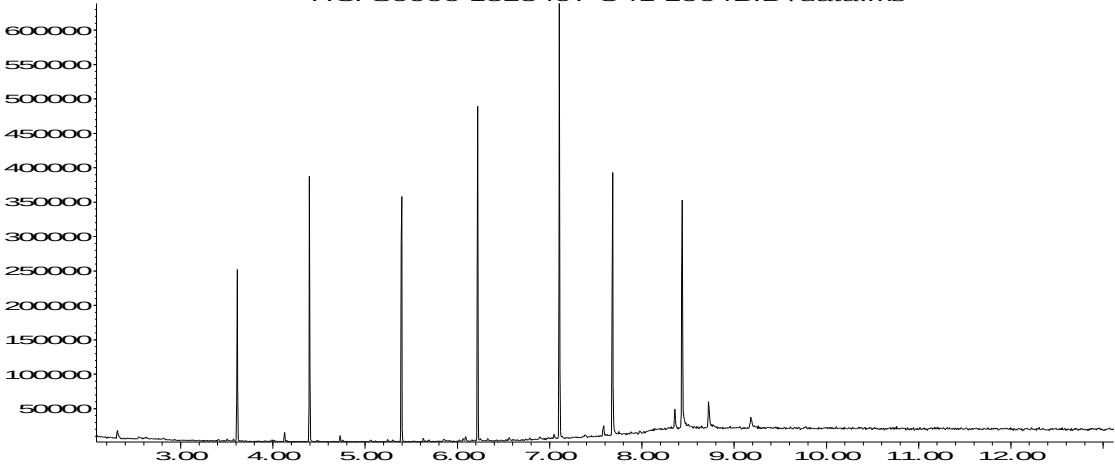
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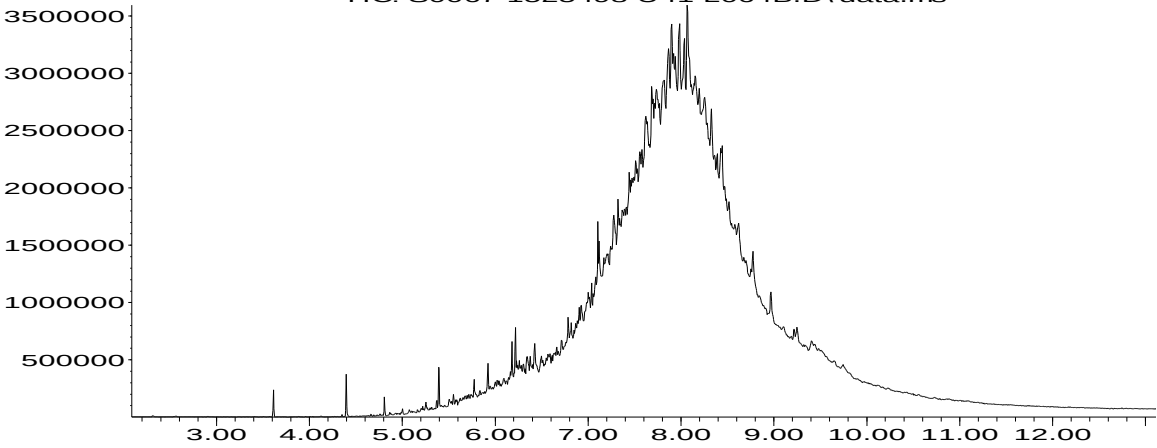
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Time-->

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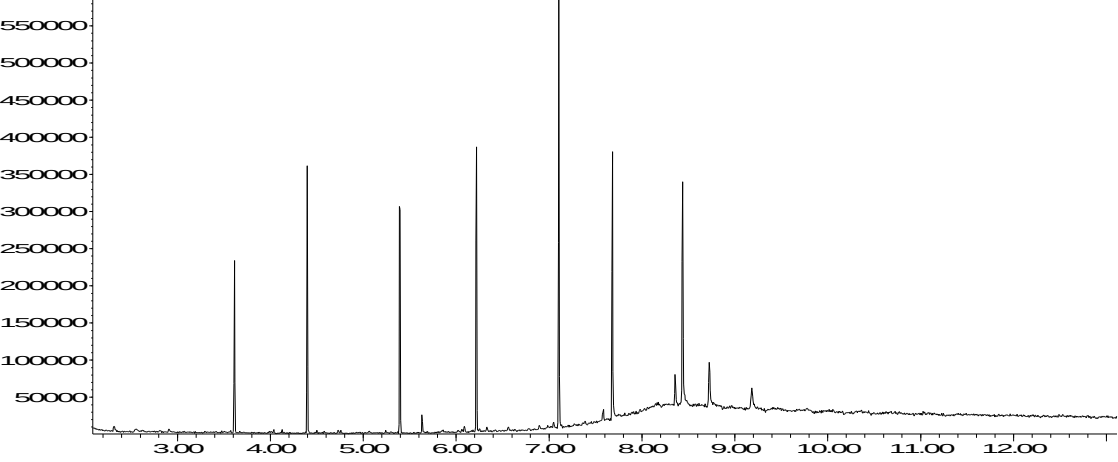
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Time-->

Abundance

TIC: S0068-1525499-U41-L064B.D\data.ms



Time-->



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Analytical Report Number : 20-12581

Replaces Analytical Report Number : 20-12581, issue no. 1

Client references/information amended.

Project / Site name:	Dyson Road	Samples received on:	03/06/2020
Your job number:	20-0337.01	Sample instructed/ Analysis started on:	03/06/2020
Your order number:	DS54582	Analysis completed by:	23/06/2020
Report Issue Number:	2	Report issued on:	23/06/2020
Samples Analysed:	2 soil samples		

Signed: Caroline Harel

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.

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.

Iss No 20-12581-2 Dyson Road 20-0337.01

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The results included within the report relate only to the sample(s) submitted for testing.

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Analytical Report Number: 20-12581

Project / Site name: Dyson Road

Your Order No: DS54582

Lab Sample Number				1525660	1525661			
Sample Reference				BH101	BH101			
Sample Number				None Supplied	None Supplied			
Depth (m)				0.5	4.0			
Date Sampled				Deviating	Deviating			
Time Taken				None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	19			
Moisture Content	%	N/A	NONE	14	6.3			
Total mass of sample received	kg	0.001	NONE	1.2	1.2			

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected			
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General Inorganics

pH - Automated	pH Units	N/A	MCERTS	9.1	8.6			
Total Cyanide	mg/kg	1	MCERTS	-	< 1			
Complex Cyanide	mg/kg	1	MCERTS	-	< 1			
Free Cyanide	mg/kg	1	MCERTS	-	< 1			
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	4100	56			
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	2.0	0.028			
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	2040	27.9			

Phenols by GC-MS

Phenol	mg/kg	0.2	NONE	-	< 0.2			
2,4,5-Trichlorophenol	mg/kg	0.2	NONE	-	< 0.2			
2,4,6-Trichlorophenol	mg/kg	0.1	NONE	-	< 0.1			
2,4-Dichlorophenol	mg/kg	0.3	NONE	-	< 0.3			
2,4-Dimethylphenol	mg/kg	0.3	NONE	-	< 0.3			
2-Chlorophenol	mg/kg	0.1	NONE	-	< 0.1			
2-Methylphenol	mg/kg	0.3	MCERTS	-	< 0.3			
2-Nitrophenol	mg/kg	0.3	NONE	-	< 0.3			
4-Chloro-3-methylphenol	mg/kg	0.1	ISO 17025	-	< 0.1			
4-Methylphenol	mg/kg	0.2	NONE	-	< 0.2			

Total Phenols

Total Phenols (GC-MS)	mg/kg	1	NONE	-	< 1.0			
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	0.31	< 0.05			
Acenaphthylene	mg/kg	0.05	MCERTS	0.30	< 0.05			
Acenaphthene	mg/kg	0.05	MCERTS	1.1	< 0.05			
Fluorene	mg/kg	0.05	MCERTS	1.6	< 0.05			
Phenanthrene	mg/kg	0.05	MCERTS	12	< 0.05			
Anthracene	mg/kg	0.05	MCERTS	3.2	< 0.05			
Fluoranthene	mg/kg	0.05	MCERTS	14	< 0.05			
Pyrene	mg/kg	0.05	MCERTS	12	< 0.05			
Benzo(a)anthracene	mg/kg	0.05	MCERTS	7.5	< 0.05			
Chrysene	mg/kg	0.05	MCERTS	4.3	< 0.05			
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	5.1	< 0.05			
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	3.7	< 0.05			
Benzo(a)pyrene	mg/kg	0.05	MCERTS	5.3	< 0.05			
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	3.3	< 0.05			
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	1.0	< 0.05			
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	3.7	< 0.05			

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	78.3	< 0.80			
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Analytical Report Number: 20-12581

Project / Site name: Dyson Road

Your Order No: DS54582

Lab Sample Number				1525660	1525661			
Sample Reference				BH101	BH101			
Sample Number				None Supplied	None Supplied			
Depth (m)				0.5	4.0			
Date Sampled				Deviating	Deviating			
Time Taken				None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)				Units	Limit of detection	Accreditation Status		

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	13	16			
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	0.5	< 0.2			
Chromium (hexavalent)	mg/kg	1.2	MCERTS	< 1.2	< 1.2			
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	33	17			
Copper (aqua regia extractable)	mg/kg	1	MCERTS	49	6.4			
Lead (aqua regia extractable)	mg/kg	1	MCERTS	130	6.0			
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	0.4	< 0.3			
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	22	15			
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	120	17			

Monoaromatics & Oxygenates

Benzene	mg/kg	0.001	MCERTS	< 0.001	< 0.001			
Toluene	mg/kg	0.001	MCERTS	< 0.001	< 0.001			
Ethylbenzene	mg/kg	0.001	MCERTS	< 0.001	< 0.001			
p & m-xylene	mg/kg	0.001	MCERTS	< 0.001	< 0.001			
o-xylene	mg/kg	0.001	MCERTS	< 0.001	< 0.001			
MTBE (Methyl Tertiary Butyl Ether)	mg/kg	0.001	MCERTS	< 0.001	< 0.001			

Petroleum 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	25	< 8.0			
TPH-CWG - Aliphatic >EC35 - EC40	mg/kg	10	NONE	16	< 10			
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	25	< 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	7.2	< 1.0			
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	14	< 2.0			
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	53	< 10			
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	150	< 10			
TPH-CWG - Aromatic >EC35 - EC40	mg/kg	10	NONE	50	< 10			
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	220	< 10			

TPH (C35 - C40)	mg/kg	10	MCERTS	65	< 10			
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Analytical Report Number: 20-12581

Project / Site name: Dyson Road

Your Order No: DS54582

Lab Sample Number				1525660	1525661			
Sample Reference				BH101	BH101			
Sample Number				None Supplied	None Supplied			
Depth (m)				0.5	4.0			
Date Sampled				Deviating	Deviating			
Time Taken				None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)				Units	Limit of detection	Accreditation Status		

VOCs

Chloromethane	mg/kg	0.001	ISO 17025	-	< 0.0010			
Chloroethane	mg/kg	0.001	NONE	-	< 0.0010			
Bromomethane	mg/kg	0.001	ISO 17025	-	< 0.0010			
Vinyl Chloride	mg/kg	0.001	NONE	-	< 0.0010			
Trichlorofluoromethane	mg/kg	0.001	NONE	-	< 0.0010			
1,1-Dichloroethene	mg/kg	0.001	NONE	-	< 0.0010			
1,1,2-Trichloro 1,2,2-Trifluoroethane	mg/kg	0.001	ISO 17025	-	< 0.0010			
Cis-1,2-dichloroethene	mg/kg	0.001	MCERTS	-	< 0.0010			
MTBE (Methyl Tertiary Butyl Ether)	mg/kg	0.001	MCERTS	-	< 0.0010			
1,1-Dichloroethane	mg/kg	0.001	MCERTS	-	< 0.0010			
2,2-Dichloropropane	mg/kg	0.001	MCERTS	-	< 0.0010			
Trichloromethane	mg/kg	0.001	MCERTS	-	< 0.0010			
1,1,1-Trichloroethane	mg/kg	0.001	MCERTS	-	< 0.0010			
1,2-Dichloroethane	mg/kg	0.001	MCERTS	-	< 0.0010			
1,1-Dichloropropene	mg/kg	0.001	MCERTS	-	< 0.0010			
Trans-1,2-dichloroethene	mg/kg	0.001	NONE	-	< 0.0010			
Benzene	mg/kg	0.001	MCERTS	-	< 0.0010			
Tetrachloromethane	mg/kg	0.001	MCERTS	-	< 0.0010			
1,2-Dichloropropane	mg/kg	0.001	MCERTS	-	< 0.0010			
Trichloroethene	mg/kg	0.001	MCERTS	-	< 0.0010			
Dibromomethane	mg/kg	0.001	MCERTS	-	< 0.0010			
Bromodichloromethane	mg/kg	0.001	MCERTS	-	< 0.0010			
Cis-1,3-dichloropropene	mg/kg	0.001	ISO 17025	-	< 0.0010			
Trans-1,3-dichloropropene	mg/kg	0.001	ISO 17025	-	< 0.0010			
Toluene	mg/kg	0.001	MCERTS	-	< 0.0010			
1,1,2-Trichloroethane	mg/kg	0.001	MCERTS	-	< 0.0010			
1,3-Dichloropropane	mg/kg	0.001	ISO 17025	-	< 0.0010			
Dibromochloromethane	mg/kg	0.001	ISO 17025	-	< 0.0010			
Tetrachloroethene	mg/kg	0.001	NONE	-	< 0.0010			
1,2-Dibromoethane	mg/kg	0.001	ISO 17025	-	< 0.0010			
Chlorobenzene	mg/kg	0.001	MCERTS	-	< 0.0010			
1,1,1,2-Tetrachloroethane	mg/kg	0.001	MCERTS	-	< 0.0010			
Ethylbenzene	mg/kg	0.001	MCERTS	-	< 0.0010			
p & m-Xylene	mg/kg	0.001	MCERTS	-	< 0.0010			
Styrene	mg/kg	0.001	MCERTS	-	< 0.0010			
Tribromomethane	mg/kg	0.001	NONE	-	< 0.0010			
o-Xylene	mg/kg	0.001	MCERTS	-	< 0.0010			
1,1,2,2-Tetrachloroethane	mg/kg	0.001	MCERTS	-	< 0.0010			
Isopropylbenzene	mg/kg	0.001	MCERTS	-	< 0.0010			
Bromobenzene	mg/kg	0.001	MCERTS	-	< 0.0010			
n-Propylbenzene	mg/kg	0.001	ISO 17025	-	< 0.0010			
2-Chlorotoluene	mg/kg	0.001	MCERTS	-	< 0.0010			
4-Chlorotoluene	mg/kg	0.001	MCERTS	-	< 0.0010			
1,3,5-Trimethylbenzene	mg/kg	0.001	ISO 17025	-	< 0.0010			
tert-Butylbenzene	mg/kg	0.001	MCERTS	-	< 0.0010			
1,2,4-Trimethylbenzene	mg/kg	0.001	ISO 17025	-	< 0.0010			
sec-Butylbenzene	mg/kg	0.001	MCERTS	-	< 0.0010			
1,3-Dichlorobenzene	mg/kg	0.001	ISO 17025	-	< 0.0010			
p-Isopropyltoluene	mg/kg	0.001	ISO 17025	-	< 0.0010			
1,2-Dichlorobenzene	mg/kg	0.001	MCERTS	-	< 0.0010			
1,4-Dichlorobenzene	mg/kg	0.001	MCERTS	-	< 0.0010			
Butylbenzene	mg/kg	0.001	MCERTS	-	< 0.0010			
1,2-Dibromo-3-chloropropane	mg/kg	0.001	ISO 17025	-	< 0.0010			
1,2,4-Trichlorobenzene	mg/kg	0.001	MCERTS	-	< 0.0010			
Hexachlorobutadiene	mg/kg	0.001	MCERTS	-	< 0.0010			
1,2,3-Trichlorobenzene	mg/kg	0.001	ISO 17025	-	< 0.0010			



Analytical Report Number: 20-12581

Project / Site name: Dyson Road

Your Order No: DS54582

Lab Sample Number				1525660	1525661			
Sample Reference				BH101	BH101			
Sample Number				None Supplied	None Supplied			
Depth (m)				0.5	4.0			
Date Sampled				Deviating	Deviating			
Time Taken				None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)				Units	Limit of detection	Accreditation Status		
VOCs TICs								
VOCs TICs Compound Name				N/A	NONE	-	ND	
VOC % Match				%	N/A	NONE	-	0

Analytical Report Number: 20-12581

Project / Site name: Dyson Road

Your Order No: DS54582

Lab Sample Number				1525660	1525661			
Sample Reference				BH101	BH101			
Sample Number				None Supplied	None Supplied			
Depth (m)				0.5	4.0			
Date Sampled				Deviating	Deviating			
Time Taken				None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)				Units	Limit of detection	Accreditation Status		

SVOCs

Aniline	mg/kg	0.1	NONE	-	< 0.1			
Phenol	mg/kg	0.2	ISO 17025	-	< 0.2			
2-Chlorophenol	mg/kg	0.1	MCERTS	-	< 0.1			
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	-	< 0.2			
1,3-Dichlorobenzene	mg/kg	0.2	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-chloroisopropyl)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			
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			



Analytical Report Number: 20-12581

Project / Site name: Dyson Road

Your Order No: DS54582

Lab Sample Number				1525660	1525661			
Sample Reference				BH101	BH101			
Sample Number				None Supplied	None Supplied			
Depth (m)				0.5	4.0			
Date Sampled				Deviating	Deviating			
Time Taken				None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)				Units	Limit of detection	Accreditation Status		

SVOCs TICs

SVOCs TICs Compound Name		N/A	NONE	-	ND			
SVOC % Match	%	N/A	NONE	-	0			



Analytical Report Number : 20-12581

Project / Site name: Dyson Road

* 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 *
1525660	BH101	None Supplied	0.5	Brown clay and sand with rubble and brick.
1525661	BH101	None Supplied	4.0	Brown sand with gravel and stones.

Analytical Report Number : 20-12581

Project / Site name: Dyson Road

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Water (PrW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
BTEX and MTBE in soil (Monoaromatics)	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS
Complex Cyanide in soil	Determination of complex cyanide by calculation.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Free cyanide in soil	Determination of free cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Hexavalent chromium in soil (Lower Level)	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazine followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In house method.	L099-PL	D	MCERTS
Phenols, speciated, in soil, by GCMS	Determination of speciated phenols in soil by extraction in dichloromethane and hexane followed by GC-MS.	In-house method based on USEPA 8270	L064-PL	D	NONE
Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds in soil by extraction in dichloromethane and hexane followed by GC-MS.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
Speciated EPA-16 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Sulphate, water soluble, in soil (16hr extraction)	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In house method.	L038-PL	D	MCERTS
Tentatively identified compounds (SVOC) in soil	Determination of semi-volatile organic compounds total ion count in soil by extraction with dichloromethane and hexane followed by GC-MS followed by a full library scan.	In-house method based on USEPA 8270	L064-PL	D	NONE
Tentatively identified compounds (VOC) in soil	Determination of volatile organic compounds total ion count in soil by headspace GC-MS followed by a full library scan.	In-house method based on USEPA8260	L073-PL	W	NONE
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
TPH Chromatogram in Soil	TPH Chromatogram in Soil.	In-house method	L064-PL	D	NONE

Iss No 20-12581-2 Dyson Road 20-0337.01

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The results included within the report relate only to the sample(s) submitted for testing.

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Analytical Report Number : 20-12581

Project / Site name: Dyson Road

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Water (PrW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
TPH in (Soil)	Determination of TPH bands by HS-GC-MS/GC-FID	In-house method, TPH with carbon banding and silica gel split/cleanup.	L076-PL	D	NONE
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method with silica gel split/cleanup.	L088/76-PL	W	MCERTS
Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

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

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

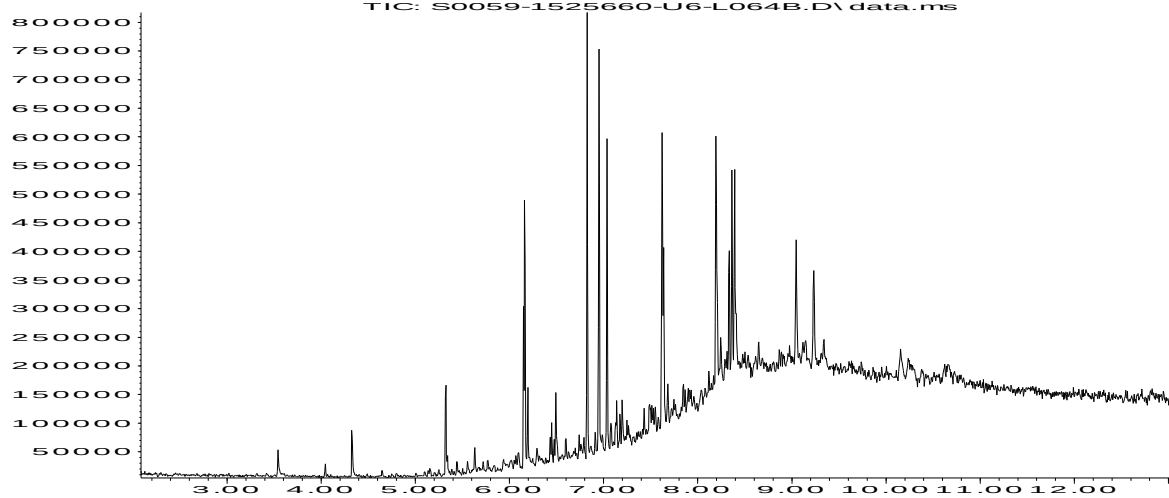
Sample Deviation Report



Sample ID	Other_ID	Sample Type	Job	Sample Number	Sample Deviation Code	test_name	test_ref	Test Deviation code
BH101		S	20-12581	1525660	a			
BH101		S	20-12581	1525661	a			

Abundance

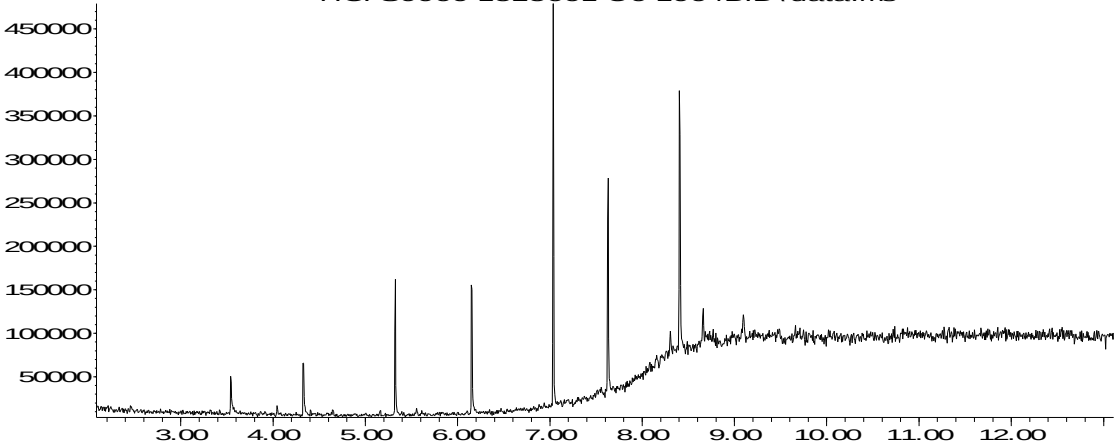
TIC: S0059-1525660-U6-L064B.D\data.ms



Time-->

Abundance

TIC: S0060-1525661-U6-L064B.D\data.ms



Time-->



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Analytical Report Number : 20-12803

Replaces Analytical Report Number : 20-12803, issue no. 1

Additional analysis undertaken.

Project / Site name:	Dyson Road	Samples received on:	29/05/2020
Your job number:	20-0337-01	Sample instructed/ Analysis started on:	04/06/2020
Your order number:	DS54751	Analysis completed by:	26/06/2020
Report Issue Number:	2	Report issued on:	29/06/2020
Samples Analysed:	10 soil samples		

Signed:

Joanna Wawrzeczko
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

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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.

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The results included within the report relate only to the sample(s) submitted for testing.

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Analytical Report Number: 20-12803

Project / Site name: Dyson Road

Your Order No: DS54751

Lab Sample Number				1526777	1526778	1526779	1526780	1526781
Sample Reference				BH103	BH103	BH103	BH103	BH102
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				5.50-6.00	8.50	10.00	12.50	10.00
Date Sampled				29/05/2020	29/05/2020	29/05/2020	29/05/2020	01/06/2020
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	%	N/A	NONE	16	15	17	18	16
Total mass of sample received	kg	0.001	NONE	0.30	0.30	0.30	0.30	0.20

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	8.1	8.0	7.9	7.7	8.2
Total Sulphate as SO ₄	%	0.005	MCERTS	0.077*	0.101	0.141	0.167	0.073*
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.42*	0.46	0.65	0.69	0.45*
Total Sulphur	%	0.005	MCERTS	0.687	0.656	2.27	1.27	0.689

* Despite repeating Total Sulphate and Water Soluble Sulphate analysis, the results remain contradictory.



Analytical Report Number: 20-12803

Project / Site name: Dyson Road

Your Order No: DS54751

Lab Sample Number				1526782	1526783	1526784	1526785	1526786
Sample Reference				BH102	BH102	BH101	BH101	BH101
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				11.00-11.50	13.00	5.50	7.00	10.00
Date Sampled				01/06/2020	01/06/2020	02/06/2020	02/06/2020	02/06/2020
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	%	N/A	NONE	16	14	15	12	15
Total mass of sample received	kg	0.001	NONE	0.30	0.20	0.20	0.20	0.20

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	8.1	7.9	7.8	8.3	8.2
Total Sulphate as SO ₄	%	0.005	MCERTS	0.092	0.112	0.073*	0.061*	0.077*
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.41	0.56	0.41*	0.41*	0.39*
Total Sulphur	%	0.005	MCERTS	0.732	0.218	0.926	0.861	0.686

* Despite repeating Total Sulphate and Water Soluble Sulphate analysis, the results remain contradictory.



Analytical Report Number : 20-12803

Project / Site name: Dyson Road

* 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 *
1526777	BH103	None Supplied	5.50-6.00	Brown clay.
1526778	BH103	None Supplied	8.50	Brown clay.
1526779	BH103	None Supplied	10.00	Brown clay.
1526780	BH103	None Supplied	12.50	Brown clay.
1526781	BH102	None Supplied	10.00	Brown clay.
1526782	BH102	None Supplied	11.00-11.50	Brown clay.
1526783	BH102	None Supplied	13.00	Brown silt with gravel.**
1526784	BH101	None Supplied	5.50	Brown clay.
1526785	BH101	None Supplied	7.00	Brown clay.
1526786	BH101	None Supplied	10.00	Brown clay.

**Non MCERTS Matrix

Analytical Report Number : 20-12803

Project / Site name: Dyson Road

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Water (PrW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In house method.	L099-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Sulphate, water soluble, in soil (16hr extraction)	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In house method.	L038-PL	D	MCERTS
Total Sulphate in soil as %	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Total Sulphur in soil as %	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES.	In house method.	L038-PL	D	MCERTS

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

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

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

Appendix I – Groundwater Chemical Analysis Results

**Mark James**

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Analytical Report Number : 20-12864

Project / Site name:	Dyson Road	Samples received on:	09/06/2020
Your job number:	20-0337.01	Sample instructed/ Analysis started on:	09/06/2020
Your order number:	DS54788	Analysis completed by:	17/06/2020
Report Issue Number:	1	Report issued on:	17/06/2020
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.

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The results included within the report relate only to the sample(s) submitted for testing.

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Analytical Report Number: 20-12864

Project / Site name: Dyson Road

Your Order No: DS54788

Lab Sample Number				1527331	1527332	1527333	1527334	
Sample Reference				DS105	DS106	DS109	BH103	
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	
Depth (m)				2.01	2.17	2.10	9.00	
Date Sampled				08/06/2020	08/06/2020	08/06/2020	08/06/2020	
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	6.8	7.3	7.3	6.9	
Total Cyanide	µg/l	10	ISO 17025	< 10	< 10	-	-	
Complex Cyanide	µg/l	10	ISO 17025	< 10	< 10	-	-	
Free Cyanide	µg/l	10	ISO 17025	< 10	< 10	-	-	
Sulphate as SO ₄	µg/l	45	ISO 17025	91300	112000	145000	96400	
Ammonium as NH ₄	µg/l	15	ISO 17025	190	3200	320	-	

Phenols by GC-MS

Phenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	-	
2,4,5-Trichlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	-	
2,4,6-Trichlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	-	
2,4-Dichlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	-	
2,4-Dimethylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	-	
2-Chlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	-	
2-Methylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	-	
2-Nitrophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	-	
4-Chloro-3-methylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	-	
4-Methylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	-	

Total Phenols

Total Phenols (GC-MS)	µg/l	0.5	NONE	< 0.5	< 0.5	< 0.5	-	
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Analytical Report Number: 20-12864

Project / Site name: Dyson Road

Your Order No: DS54788

Lab Sample Number				1527331	1527332	1527333	1527334	
Sample Reference				DS105	DS106	DS109	BH103	
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	
Depth (m)				2.01	2.17	2.10	9.00	
Date Sampled				08/06/2020	08/06/2020	08/06/2020	08/06/2020	
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	
Analytical Parameter (Water Analysis)	Units	Limit of detection	Accreditation Status					

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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Analytical Report Number: 20-12864

Project / Site name: Dyson Road

Your Order No: DS54788

Lab Sample Number				1527331	1527332	1527333	1527334	
Sample Reference				DS105	DS106	DS109	BH103	
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	
Depth (m)				2.01	2.17	2.10	9.00	
Date Sampled				08/06/2020	08/06/2020	08/06/2020	08/06/2020	
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	
Analytical Parameter (Water Analysis)	Units	Limit of detection	Accreditation Status					

Heavy Metals / Metalloids

Arsenic (dissolved)	µg/l	0.15	ISO 17025	0.86	3.23	1.15	2.46	
Cadmium (dissolved)	µg/l	0.02	ISO 17025	0.04	0.11	< 0.02	0.08	
Chromium (hexavalent)	µg/l	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	
Chromium (dissolved)	µg/l	0.2	ISO 17025	0.5	< 0.2	0.9	4.7	
Copper (dissolved)	µg/l	0.5	ISO 17025	3.4	< 0.5	2.8	8.5	
Lead (dissolved)	µg/l	0.2	ISO 17025	0.4	1.2	2.0	6.3	
Mercury (dissolved)	µg/l	0.05	ISO 17025	< 0.05	< 0.05	< 0.05	< 0.05	
Nickel (dissolved)	µg/l	0.5	ISO 17025	5.5	39	8.7	9.6	
Zinc (dissolved)	µg/l	0.5	ISO 17025	2.4	6.1	2.4	8.7	



Analytical Report Number: 20-12864

Project / Site name: Dyson Road

Your Order No: DS54788

Lab Sample Number				1527331	1527332	1527333	1527334	
Sample Reference				DS105	DS106	DS109	BH103	
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	
Depth (m)				2.01	2.17	2.10	9.00	
Date Sampled				08/06/2020	08/06/2020	08/06/2020	08/06/2020	
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	
Analytical Parameter (Water Analysis)				Units	Limit of detection	Accreditation Status		

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	

Petroleum Hydrocarbons



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Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	
Depth (m)				2.01	2.17	2.10	9.00	
Date Sampled				08/06/2020	08/06/2020	08/06/2020	08/06/2020	
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	
Analytical Parameter (Water Analysis)	Units	Limit of detection	Accreditation Status					
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 - 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	
Aliphatic >C10 - C12	µg/l	10	ISO 17025	< 10	< 10	< 10	< 10	
Aliphatic >C12 - C16	µg/l	10	ISO 17025	< 10	< 10	< 10	< 10	
Aliphatic >C16 - C21	µg/l	10	ISO 17025	< 10	< 10	< 10	< 10	
Aliphatic >C21 - C35	µg/l	10	ISO 17025	< 10	< 10	< 10	< 10	
Aliphatic >C10 - C35	µg/l	10	ISO 17025	< 10	< 10	< 10	< 10	
Aromatic >C10 - C12	µg/l	10	ISO 17025	< 10	< 10	< 10	< 10	
Aromatic >C12 - C16	µg/l	10	ISO 17025	< 10	< 10	< 10	< 10	
Aromatic >C16 - C21	µg/l	10	ISO 17025	< 10	< 10	< 10	< 10	
Aromatic >C21 - C35	µg/l	10	ISO 17025	< 10	< 10	< 10	< 10	
Aromatic >C10 - C35	µg/l	10	ISO 17025	< 10	< 10	< 10	< 10	



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Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	
Depth (m)				2.01	2.17	2.10	9.00	
Date Sampled				08/06/2020	08/06/2020	08/06/2020	08/06/2020	
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	
Analytical Parameter (Water Analysis)	Units	Limit of detection	Accreditation Status					

VOCs

Chloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	-	
Chloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	-	
Bromomethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	-	
Vinyl Chloride	µg/l	1	NONE	< 1.0	< 1.0	< 1.0	-	
Trichlorofluoromethane	µg/l	1	NONE	< 1.0	< 1.0	< 1.0	-	
1,1-Dichloroethene	µg/l	1	ISO 17025	< 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	-	
Cis-1,2-dichloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	-	
MTBE (Methyl Tertiary Butyl Ether)	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	-	
1,1-Dichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	-	
2,2-Dichloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	-	
Trichloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	-	
1,1,1-Trichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	-	
1,2-Dichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	-	
1,1-Dichloropropene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	-	
Trans-1,2-dichloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	-	
Benzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	-	
Tetrachloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	-	
1,2-Dichloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	-	
Trichloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	-	
Dibromomethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	-	
Bromodichloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	-	
Cis-1,3-dichloropropene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	-	
Trans-1,3-dichloropropene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	-	
Toluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	-	
1,1,2-Trichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	-	
1,3-Dichloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	-	
Dibromochloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	-	
Tetrachloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	-	
1,2-Dibromoethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	-	
Chlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	-	
1,1,1,2-Tetrachloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	-	
Ethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	-	
p & m-Xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	-	
Styrene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	-	
Tribromomethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	-	
o-Xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	-	
1,1,2,2-Tetrachloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	-	
Isopropylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	-	
Bromobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	-	
n-Propylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	-	
2-Chlorotoluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	-	
4-Chlorotoluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	-	
1,3,5-Trimethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	-	
tert-Butylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	-	
1,2,4-Trimethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	-	
sec-Butylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	-	
1,3-Dichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	-	
p-Isopropyltoluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	-	
1,2-Dichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	-	
1,4-Dichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	-	
Butylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	-	
1,2-Dibromo-3-chloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	-	
1,2,4-Trichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	-	
Hexachlorobutadiene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	-	
1,2,3-Trichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	-	



Analytical Report Number: 20-12864

Project / Site name: Dyson Road

Your Order No: DS54788

Lab Sample Number				1527331	1527332	1527333	1527334	
Sample Reference				DS105	DS106	DS109	BH103	
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	
Depth (m)				2.01	2.17	2.10	9.00	
Date Sampled				08/06/2020	08/06/2020	08/06/2020	08/06/2020	
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	
Analytical Parameter (Water Analysis)				Units	Limit of detection	Accreditation Status		

VOCs TICs

VOCs TICs Compound Name		10	NONE	ND	ND	ND	-	
VOC % Match	%	10	NONE	0	0	0	-	



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Lab Sample Number				1527331	1527332	1527333	1527334
Sample Reference				DS105	DS106	DS109	BH103
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				2.01	2.17	2.10	9.00
Date Sampled				08/06/2020	08/06/2020	08/06/2020	08/06/2020
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Water Analysis)	Units	Limit of detection	Accreditation Status				

SVOCs

Aniline	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	-
Phenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	-
2-Chlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	-
Bis(2-chloroethyl)ether	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	-
1,3-Dichlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	-
1,2-Dichlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	-
1,4-Dichlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	-
Bis(2-chloroisopropyl)ether	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	-
2-Methylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	-
Hexachloroethane	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	-
Nitrobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	-
4-Methylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	-
Isophorone	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	-
2-Nitrophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	-
2,4-Dimethylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	-
Bis(2-chloroethoxy)methane	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	-
1,2,4-Trichlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	-
Naphthalene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	-
2,4-Dichlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	-
4-Chloroaniline	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	-
Hexachlorobutadiene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	-
4-Chloro-3-methylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	-
2,4,6-Trichlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	-
2,4,5-Trichlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	-
2-Methylnaphthalene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	-
2-Chloronaphthalene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	-
Dimethylphthalate	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	-
2,6-Dinitrotoluene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	-
Acenaphthylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	-
Acenaphthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	-
2,4-Dinitrotoluene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	-
Dibenzofuran	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	-
4-Chlorophenyl phenyl ether	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	-
Diethyl phthalate	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	-
4-Nitroaniline	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	-
Fluorene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	-
Azobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	-
Bromophenyl phenyl ether	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	-
Hexachlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	-
Phenanthrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	-
Anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	-
Carbazole	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	-
Dibutyl phthalate	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	-
Anthraquinone	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	-
Fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	-
Pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	-
Butyl benzyl phthalate	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	-
Benzo(a)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	-
Chrysene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	-
Benzo(b)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	-
Benzo(k)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	-
Benzo(a)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	-
Indeno(1,2,3-cd)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	-
Dibenz(a,h)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	-
Benzo(ghi)perylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	-



Analytical Report Number: 20-12864

Project / Site name: Dyson Road

Your Order No: DS54788

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Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	
Depth (m)				2.01	2.17	2.10	9.00	
Date Sampled				08/06/2020	08/06/2020	08/06/2020	08/06/2020	
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	
Analytical Parameter (Water Analysis)				Units	Limit of detection	Accreditation Status		

SVOCs TICs

SVOCs TICs Compound Name		N/A	NONE	ND	ND	ND	-	
SVOC % Match	%	N/A	NONE	0	0	0	-	

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



Analytical Report Number : 20-12864

Project / Site name: Dyson Road

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Water (PrW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Ammonium as NH ₄ in water	Determination of Ammonium/Ammonia/Ammoniacal Nitrogen by the colorimetric salicylate/nitroprusside method. Accredited matrices SW, GW, PW.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L082-PL	W	ISO 17025
BTEX and MTBE in water (Monoaromatics)	Determination of BTEX and MTBE in water by headspace GC-MS. Accredited matrices: SW PW GW	In-house method based on USEPA8260	L073B-PL	W	ISO 17025
Complex cyanide in water	Determination of complex cyanide by calculation. Accredited matrices SW, PW, GW.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	ISO 17025
Free cyanide in water	Determination of free cyanide by distillation followed by colorimetry. Accredited matrices SW, GW, PW.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	ISO 17025
Hexavalent chromium in water	Determination of hexavalent chromium in water by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method by continuous flow analyser. Accredited Matrices SW, GW, PW.	L080-PL	W	ISO 17025
Metals in water by ICP-MS (dissolved)	Determination of metals in water by acidification followed by ICP-MS. Accredited Matrices: SW, GW, PW except B=SW,GW, Hg=SW,PW, Al=SW,PW.	In-house method based on USEPA Method 6020 & 200.8 "for the determination of trace elements in water by ICP-MS.	L012-PL	W	ISO 17025
pH at 20oC in water (automated)	Determination of pH in water by electrometric measurement. Accredited matrices: SW PW GW	In house method.	L099-PL	W	ISO 17025
Phenols, speciated, in water, by GCMS	Determination of speciated phenols in water by extraction in hexane followed by GC-MS.	In-house method based on USEPA 8270	L070-PL	W	NONE
Semi-volatile organic compounds in water	Determination of semi-volatile organic compounds in leachate by extraction in dichloromethane followed by GC-MS.	In-house method based on USEPA 8270	L102B-PL	W	NONE
Speciated EPA-16 PAHs in water	Determination of PAH compounds in water by extraction in dichloromethane followed by GC-MS with the use of surrogate and internal standards. Accredited matrices: SW PW GW	In-house method based on USEPA 8270	L102B-PL	W	ISO 17025
Sulphate in water	Determination of sulphate in water by acidification followed by ICP-OES. Accredited matrices: SW PW GW, PrW.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L039-PL	W	ISO 17025
Tentatively identified compounds (SVOC) in water	Determination of semi-volatile organic compounds total ion count in water by extraction with hexane followed by GC-MS followed by a full library scan.	In-house method based on USEPA 8270	L070-PL	W	NONE
Tentatively identified compounds (VOC) in water	Determination of volatile organic compounds total ion count in water by headspace GC-MS followed by a full library scan.	In-house method based on USEPA8260	L073B-PL	W	NONE
Total cyanide in water	Determination of total cyanide by distillation followed by colorimetry. Accredited matrices: SW PW GW	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	ISO 17025
TPH C10-C35 by GCxGC-FID	Determination of total petroleum hydrocarbons in water by GC x GC FID with carbon banding aliphatic and aromatic C10-C35. Accredited Matrices SW,GW,PW.	In-house method	L101B-PL	W	ISO 17025
TPH Chromatogram in Water	TPH Chromatogram in Water.	In-house method	L070-PL	W	NONE
TPHCWG (Waters)	Determination of dichloromethane extractable hydrocarbons in water by GC-MS, speciation by interpretation.	In-house method	L070-PL	W	ISO 17025

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The results included within the report relate only to the sample(s) submitted for testing.

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Analytical Report Number : 20-12864

Project / Site name: Dyson Road

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Water (PrW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Volatile organic compounds in water	Determination of volatile organic compounds in water by headspace GC-MS. Accredited matrices: SW PW GW	In-house method based on USEPA8260	L073B-PL	W	ISO 17025

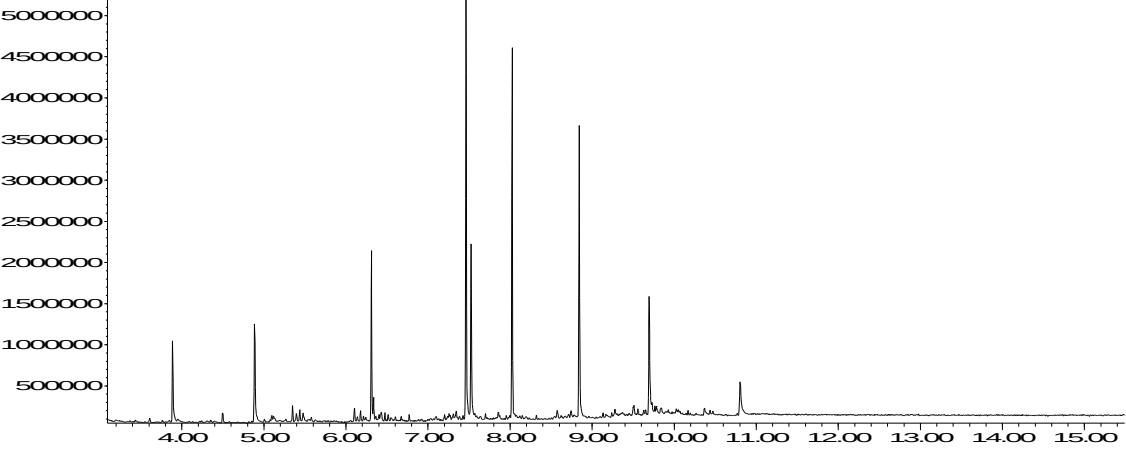
For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

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

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

Abundance

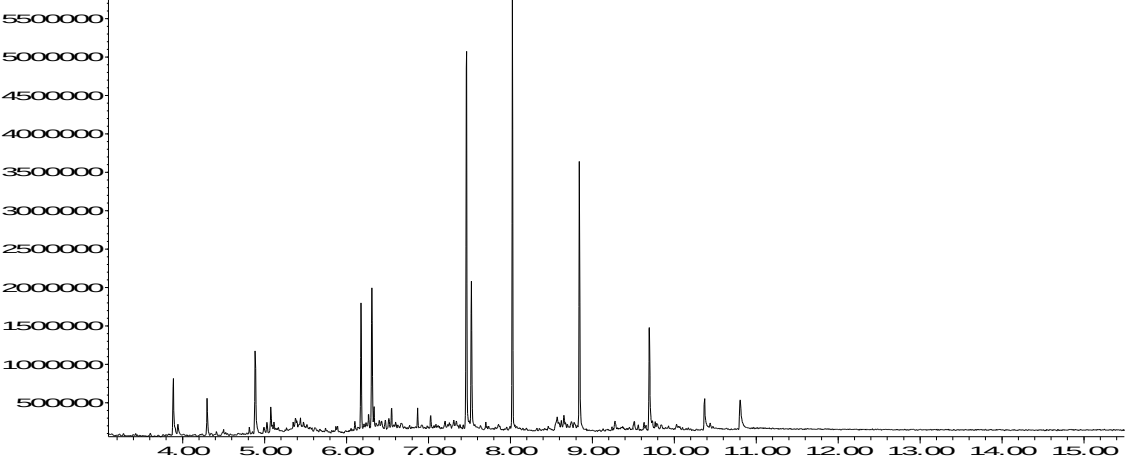
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Time-->

Abundance

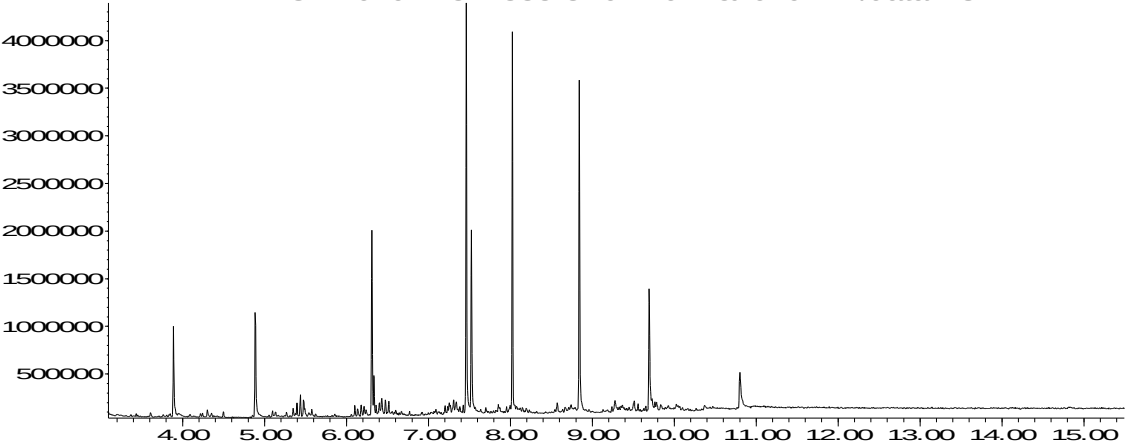
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Time-->

Abundance

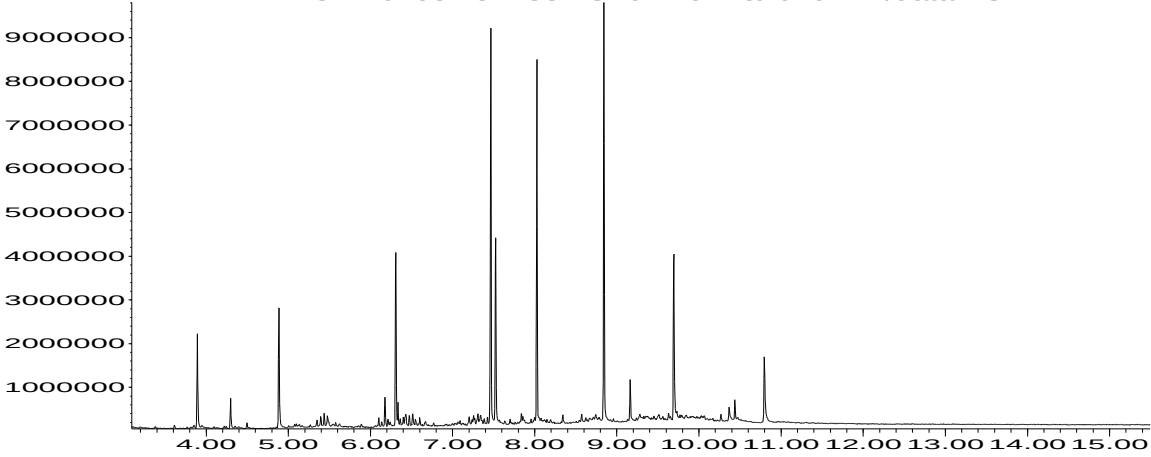
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Time-->

Abundance

TIC: W0205-1527334-U10-L102B&L070B.D\data.ms



Time-->



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Analytical Report Number : 20-13175

Replaces Analytical Report Number : 20-13175, issue no. 1

Client references/information amended.

Project / Site name:	Dyson Road	Samples received on:	09/06/2020
Your job number:	20-0337.01	Sample instructed/ Analysis started on:	09/06/2020
Your order number:	DS54788	Analysis completed by:	18/06/2020
Report Issue Number:	2	Report issued on:	18/06/2020
Samples Analysed:	5 water samples		

Signed: Caroline Harel

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.

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.

Iss No 20-13175-2 Dyson Road 20-0337.01

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The results included within the report relate only to the sample(s) submitted for testing.

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Analytical Report Number: 20-13175

Project / Site name: Dyson Road

Your Order No: DS54788

Lab Sample Number				1528844	1528845	1528846	1528847	1528848
Sample Reference				BH101	DS102	DS104	DS107	DS108
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				09/06/2020	09/06/2020	09/06/2020	09/06/2020	09/06/2020
Time Taken				None Supplied	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	6.9	7.8	8.0	7.2	9.2
Total Cyanide	µg/l	10	ISO 17025	-	-	< 10	< 10	-
Complex Cyanide	µg/l	10	ISO 17025	-	-	< 10	< 10	-
Free Cyanide	µg/l	10	ISO 17025	-	-	< 10	< 10	-
Sulphate as SO ₄	µg/l	45	ISO 17025	91200	91000	68800	90500	131000
Ammonium as NH ₄	µg/l	15	ISO 17025	-	31	1200	380	1100

Phenols by GC-MS

Phenol	µg/l	0.05	NONE	-	-	< 0.05	-	< 0.05
2,4,5-Trichlorophenol	µg/l	0.05	NONE	-	-	< 0.05	-	< 0.05
2,4,6-Trichlorophenol	µg/l	0.05	NONE	-	-	< 0.05	-	< 0.05
2,4-Dichlorophenol	µg/l	0.05	NONE	-	-	< 0.05	-	< 0.05
2,4-Dimethylphenol	µg/l	0.05	NONE	-	-	< 0.05	-	< 0.05
2-Chlorophenol	µg/l	0.05	NONE	-	-	< 0.05	-	< 0.05
2-Methylphenol	µg/l	0.05	NONE	-	-	< 0.05	-	< 0.05
2-Nitrophenol	µg/l	0.05	NONE	-	-	< 0.05	-	< 0.05
4-Chloro-3-methylphenol	µg/l	0.05	NONE	-	-	< 0.05	-	< 0.05
4-Methylphenol	µg/l	0.05	NONE	-	-	< 0.05	-	< 0.05

Total Phenols

Total Phenols (GC-MS)	µg/l	0.5	NONE	-	-	< 0.5	-	< 0.5
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Speciated PAHs

Naphthalene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	0.93	< 0.01	1.27
Acenaphthylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	0.45	< 0.01	< 0.01
Fluorene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	1.80	< 0.01	< 0.01
Phenanthrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	4.24	< 0.01	0.58
Anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	0.92	< 0.01	0.11
Fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	1.91	< 0.01	0.81
Pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	2.49	< 0.01	0.75
Benzo(a)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	1.22	< 0.01	0.38
Chrysene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	0.95	< 0.01	0.29
Benzo(b)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	0.42
Benzo(k)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	0.17
Benzo(a)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	0.29
Indeno(1,2,3-cd)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 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	< 0.01
Benzo(ghi)perylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01

Total PAH

Total EPA-16 PAHs	µg/l	0.16	ISO 17025	< 0.16	< 0.16	14.9	< 0.16	5.07
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Heavy Metals / Metalloids

Arsenic (dissolved)	µg/l	0.15	ISO 17025	0.47	1.05	12.7	2.82	4.70
Cadmium (dissolved)	µg/l	0.02	ISO 17025	< 0.02	0.04	< 0.02	0.12	< 0.02
Chromium (hexavalent)	µg/l	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chromium (dissolved)	µg/l	0.2	ISO 17025	< 0.2	0.7	< 0.2	< 0.2	0.4
Copper (dissolved)	µg/l	0.5	ISO 17025	1.9	3.9	< 0.5	4.1	27
Lead (dissolved)	µg/l	0.2	ISO 17025	< 0.2	< 0.2	< 0.2	< 0.2	0.4
Mercury (dissolved)	µg/l	0.05	ISO 17025	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nickel (dissolved)	µg/l	0.5	ISO 17025	2.2	5.8	9.4	16	7.8
Zinc (dissolved)	µg/l	0.5	ISO 17025	2.9	2.8	1.4	3.8	2.7



Analytical Report Number: 20-13175

Project / Site name: Dyson Road

Your Order No: DS54788

Lab Sample Number				1528844	1528845	1528846	1528847	1528848
Sample Reference				BH101	DS102	DS104	DS107	DS108
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				09/06/2020	09/06/2020	09/06/2020	09/06/2020	09/06/2020
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Water Analysis)	Units	Limit of detection	Accreditation Status					

Monoaromatics & Oxygenates

Benzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	2.7	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >C5 - C6	µg/l	1	ISO 17025	< 1.0	< 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	< 1.0
TPH-CWG - Aliphatic >C8 - C10	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

TPH-CWG - Aromatic >C5 - C7	µg/l	1	ISO 17025	< 1.0	< 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	< 1.0
TPH-CWG - Aromatic >C8 - C10	µg/l	1	ISO 17025	< 1.0	< 1.0	14	< 1.0	< 1.0

Aliphatic >C10 - C12	µg/l	10	ISO 17025	< 10	< 10	< 10	< 10	< 10
Aliphatic >C12 - C16	µg/l	10	ISO 17025	< 10	< 10	180	< 10	63
Aliphatic >C16 - C21	µg/l	10	ISO 17025	< 10	< 10	590	< 10	140
Aliphatic >C21 - C35	µg/l	10	ISO 17025	< 10	< 10	5500	< 10	2600
Aliphatic >C10 - C35	µg/l	10	ISO 17025	< 10	< 10	6300	< 10	2800

Aromatic >C10 - C12	µg/l	10	ISO 17025	< 10	< 10	48	< 10	20
Aromatic >C12 - C16	µg/l	10	ISO 17025	< 10	< 10	170	< 10	64
Aromatic >C16 - C21	µg/l	10	ISO 17025	< 10	< 10	270	< 10	110
Aromatic >C21 - C35	µg/l	10	ISO 17025	< 10	< 10	1200	< 10	830
Aromatic >C10 - C35	µg/l	10	ISO 17025	< 10	< 10	1700	< 10	1000



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Sample Reference				BH101	DS102	DS104	DS107	DS108
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				09/06/2020	09/06/2020	09/06/2020	09/06/2020	09/06/2020
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Water Analysis)	Units	Limit of detection	Accreditation Status					

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-Dichloroethene	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-dichloroethene	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-dichloroethene	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
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	2.7	< 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	2.4	< 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	8.5	< 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



Analytical Report Number: 20-13175

Project / Site name: Dyson Road

Your Order No: DS54788

Lab Sample Number				1528844	1528845	1528846	1528847	1528848
Sample Reference				BH101	DS102	DS104	DS107	DS108
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				09/06/2020	09/06/2020	09/06/2020	09/06/2020	09/06/2020
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Water Analysis)				Units	Limit of detection	Accreditation Status		

VOCs TICs

VOCs TICs Compound Name		10	NONE	-	ND	Benzene, 1,2,4,5-tetramethyl-	ND	ND
VOC % Match	%	10	NONE	-	0	94	0	0



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Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				09/06/2020	09/06/2020	09/06/2020	09/06/2020	09/06/2020
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Water Analysis)	Units	Limit of detection	Accreditation Status					

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-chloroethyl)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-chloroisopropyl)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	0.93	< 0.01	1.3
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
Dimethylphthalate	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
Acenaphthylene	µg/l	0.01	ISO 17025	-	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthene	µg/l	0.01	ISO 17025	-	< 0.01	0.45	< 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	1.8	< 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	4.2	< 0.01	0.58
Anthracene	µg/l	0.01	ISO 17025	-	< 0.01	0.92	< 0.01	0.11
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	1.9	< 0.01	0.81
Pyrene	µg/l	0.01	ISO 17025	-	< 0.01	2.5	< 0.01	0.75
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	1.2	< 0.01	0.38
Chrysene	µg/l	0.01	ISO 17025	-	< 0.01	0.95	< 0.01	0.29
Benzo(b)fluoranthene	µg/l	0.01	ISO 17025	-	< 0.01	< 0.01	< 0.01	0.42
Benzo(k)fluoranthene	µg/l	0.01	ISO 17025	-	< 0.01	< 0.01	< 0.01	0.17
Benzo(a)pyrene	µg/l	0.01	ISO 17025	-	< 0.01	< 0.01	< 0.01	0.29
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



Analytical Report Number: 20-13175

Project / Site name: Dyson Road

Your Order No: DS54788

Lab Sample Number	1528844	1528845	1528846	1528847	1528848
Sample Reference	BH101	DS102	DS104	DS107	DS108
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled	09/06/2020	09/06/2020	09/06/2020	09/06/2020	09/06/2020
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Water Analysis)	Units	Limit of detection	Accreditation Status		

SVOCs TICs

SVOCs TICs Compound Name		N/A	NONE	-	0	2,5-Cyclohexadiene-1,4-dione, 2,6-bis(1,1-dimethylethyl)-	0	Eicosane
SVOC % Match	%	N/A	NONE	-	0	96	0	96
SVOCs TICs Compound Name		N/A	NONE	-	0	Benzene, 1,2,3,4-tetramethyl-	0	Pyridine, 2-(1-methyl-2-pyrrolidinyl)-
SVOC % Match	%	N/A	NONE	-	0	95	0	95
SVOCs TICs Compound Name		N/A	NONE	-	0	Naphthalene, 1,2,3,4-tetrahydro-5-methyl-	0	Cyclotetradecane, 1,7,11-trimethyl-4-(1-methylethyl)-
SVOC % Match	%	N/A	NONE	-	0	95	0	95
SVOCs TICs Compound Name		N/A	NONE	-	0	Naphthalene, 1,2,3,4-tetrahydro-1,4-dimethyl-	0	Tricosane
SVOC % Match	%	N/A	NONE	-	0	95	0	95
SVOCs TICs Compound Name		N/A	NONE	-	0	Cyclotetradecane, 1,7,11-trimethyl-4-(1-methylethyl)-	0	Phenol, 2,6-bis(1,1-dimethylethyl)-
SVOC % Match	%	N/A	NONE	-	0	95	0	94
SVOCs TICs Compound Name		N/A	NONE	-	0	Heneicosane	0	9-Tricosene, (Z)-
SVOC % Match	%	N/A	NONE	-	0	95	0	93
SVOCs TICs Compound Name		N/A	NONE	-	0	Docosane	0	1-Nonadecene
SVOC % Match	%	N/A	NONE	-	0	95	0	92
SVOCs TICs Compound Name		N/A	NONE	-	0	Nonadecane	0	L-Lysine, N2-[(2,4-dichlorophenoxy)acetyl]-
SVOC % Match	%	N/A	NONE	-	0	95	0	92
SVOCs TICs Compound Name		N/A	NONE	-	0	Tricosane	0	Pyridine-3-carboxamide, oxime, N-(2-trifluoromethylphenyl)-
SVOC % Match	%	N/A	NONE	-	0	95	0	91
SVOCs TICs Compound Name		N/A	NONE	-	0	Eicosane	0	1-Docosene
SVOC % Match	%	N/A	NONE	-	0	95	0	91

Miscellaneous Organics

Product ID		N/A	NONE	-	-	See Appendix	-	-
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U/S = Unsuitable Sample I/S = Insufficient Sample



Analytical Report Number : 20-13175

Project / Site name: Dyson Road

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Water (PrW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Ammonium as NH ₄ in water	Determination of Ammonium/Ammonia/Ammoniacal Nitrogen by the colorimetric salicylate/nitroprusside method. Accredited matrices SW, GW, PW.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L082-PL	W	ISO 17025
BTEX and MTBE in water (Monoaromatics)	Determination of BTEX and MTBE in water by headspace GC-MS. Accredited matrices: SW PW GW	In-house method based on USEPA8260	L073B-PL	W	ISO 17025
Complex cyanide in water	Determination of complex cyanide by calculation. Accredited matrices SW, PW, GW.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	ISO 17025
Free cyanide in water	Determination of free cyanide by distillation followed by colorimetry. Accredited matrices SW, GW, PW.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	ISO 17025
Hexavalent chromium in water	Determination of hexavalent chromium in water by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method by continuous flow analyser. Accredited Matrices SW, GW, PW.	L080-PL	W	ISO 17025
Metals in water by ICP-MS (dissolved)	Determination of metals in water by acidification followed by ICP-MS. Accredited Matrices: SW, GW, PW except B=SW,GW, Hg=SW,PW, Al=SW,PW.	In-house method based on USEPA Method 6020 & 200.8 "for the determination of trace elements in water by ICP-MS.	L012-PL	W	ISO 17025
pH at 20oC in water (automated)	Determination of pH in water by electrometric measurement. Accredited matrices: SW PW GW	In house method.	L099-PL	W	ISO 17025
Phenols, speciated, in water, by GCMS	Determination of speciated phenols in water by extraction in hexane followed by GC-MS.	In-house method based on USEPA 8270	L070-PL	W	NONE
Product ID	Determination of product ID by interpretation against standard chromatograms - Water.	In-house method	L070-PL/UK	W	NONE
Semi-volatile organic compounds in water	Determination of semi-volatile organic compounds in leachate by extraction in dichloromethane followed by GC-MS.	In-house method based on USEPA 8270	L102B-PL	W	NONE
Speciated EPA-16 PAHs in water	Determination of PAH compounds in water by extraction in dichloromethane followed by GC-MS with the use of surrogate and internal standards. Accredited matrices: SW PW GW	In-house method based on USEPA 8270	L102B-PL	W	ISO 17025
Sulphate in water	Determination of sulphate in water by acidification followed by ICP-OES. Accredited matrices: SW PW GW, PrW.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L039-PL	W	ISO 17025
Tentatively identified compounds (SVOC) in water	Determination of semi-volatile organic compounds total ion count in water by extraction with hexane followed by GC-MS followed by a full library scan.	In-house method based on USEPA 8270	L070-PL	W	NONE
Tentatively identified compounds (VOC) in water	Determination of volatile organic compounds total ion count in water by headspace GC-MS followed by a full library scan.	In-house method based on USEPA8260	L073B-PL	W	NONE
Total cyanide in water	Determination of total cyanide by distillation followed by colorimetry. Accredited matrices: SW PW GW	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	ISO 17025
TPH C10-C35 by GCxGC-FID	Determination of total petroleum hydrocarbons in water by GC x GC FID with carbon banding aliphatic and aromatic C10-C35. Accredited Matrices SW,GW,PW.	In-house method	L101B-PL	W	ISO 17025
TPH Chromatogram in Water	TPH Chromatogram in Water.	In-house method	L070-PL	W	NONE

Iss No 20-13175-2 Dyson Road 20-0337.01

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The results included within the report relate only to the sample(s) submitted for testing.

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Analytical Report Number : 20-13175

Project / Site name: Dyson Road

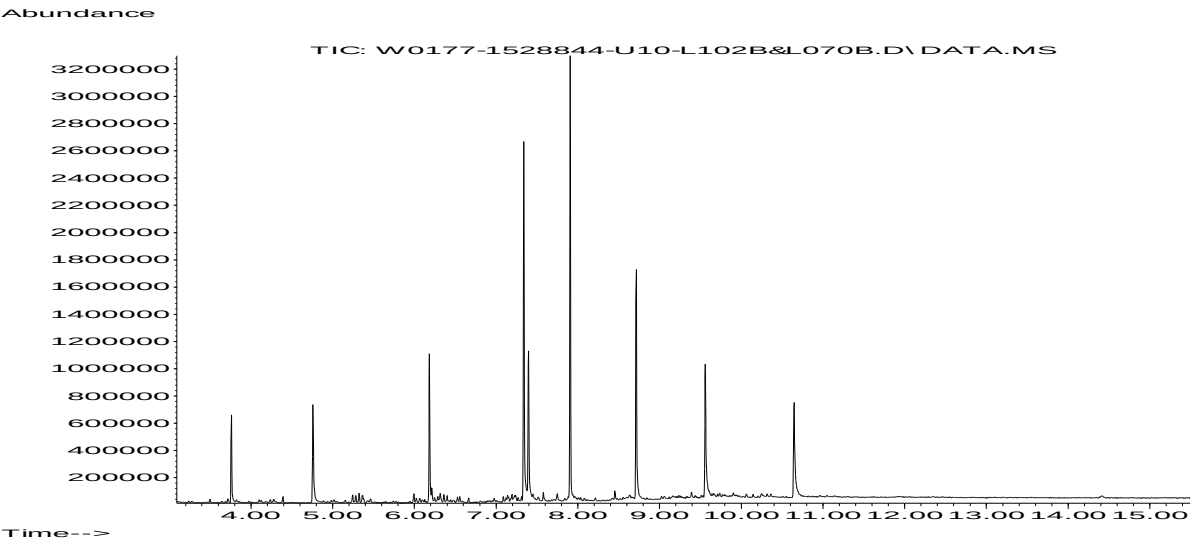
Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Water (PrW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
TPHCWG (Waters)	Determination of dichloromethane extractable hydrocarbons in water by GC-MS, speciation by interpretation.	In-house method	L070-PL	W	ISO 17025
Volatile organic compounds in water	Determination of volatile organic compounds in water by headspace GC-MS. Accredited matrices: SW PW GW	In-house method based on USEPA8260	L073B-PL	W	ISO 17025

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

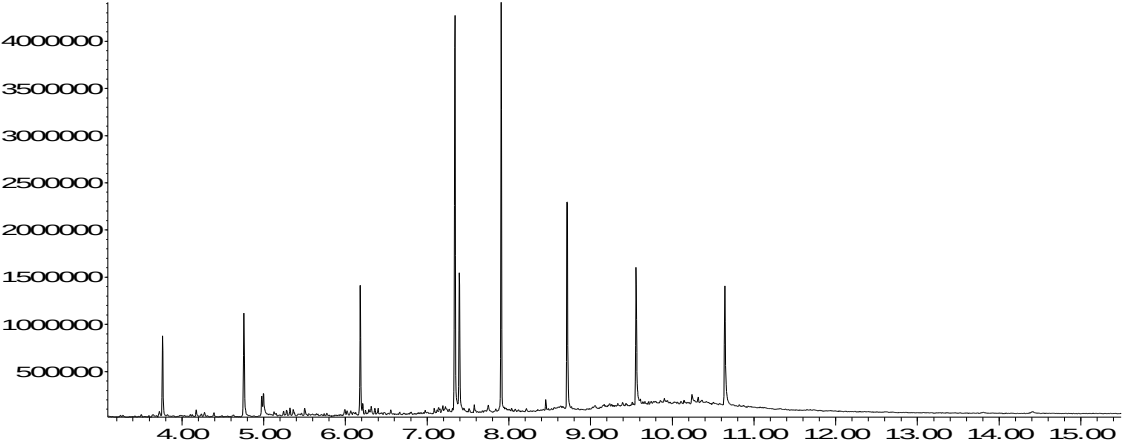
For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

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

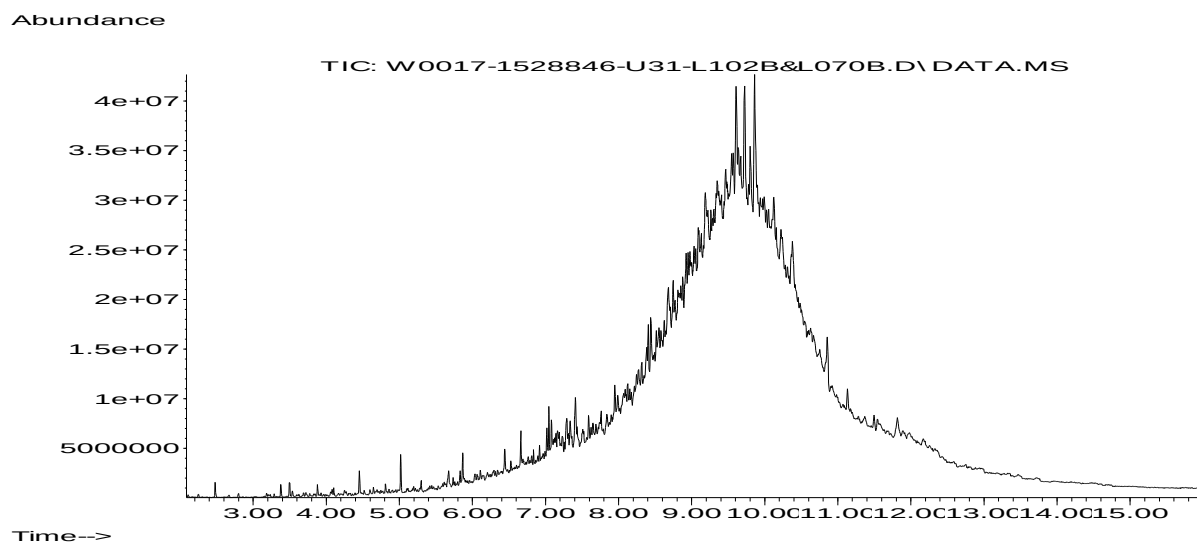


Abundance

TIC: W0178-1528845-U10-L102B&L070B.D\DATA.MS



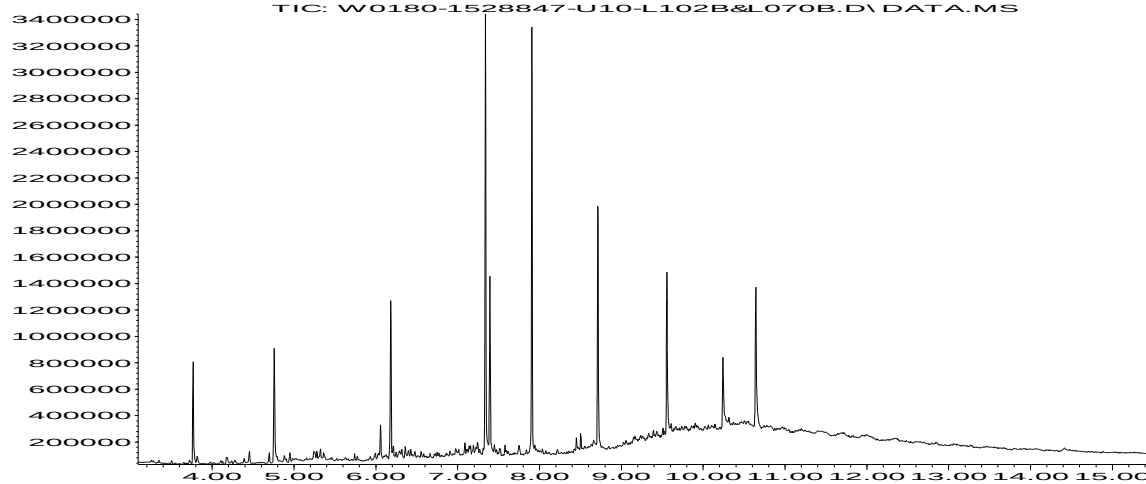
Time-->



The total ion count (TIC trace) shows a carbon range from C10 to C40
The sample TIC trace is complex, showing aliphatic and aromatic product sources.
The trace does not match the standard product profiles but is suggestive of lube oil.

Abundance

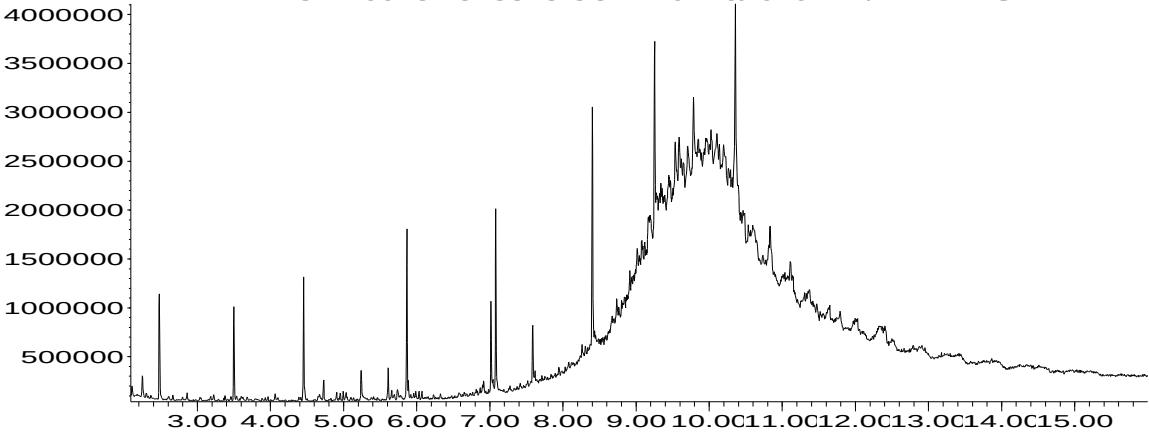
TIC: W0180-1528847-U10-L102B&L070B.D\DATA.MS



Time-->

Abundance

TIC: W0018-1528848-U31-L102B&L070B.D\DATA.MS



Time-->

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Analytical Report Number : 20-14053

Project / Site name:	Dyson Road	Samples received on:	15/06/2020
Your job number:	20-0337.01	Sample instructed/ Analysis started on:	15/06/2020
Your order number:	DS54788	Analysis completed by:	19/06/2020
Report Issue Number:	1	Report issued on:	19/06/2020
Samples Analysed:	1 water sample		

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.

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.

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The results included within the report relate only to the sample(s) submitted for testing.

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Analytical Report Number: 20-14053

Project / Site name: Dyson Road

Your Order No: DS54788

Lab Sample Number				1533327				
Sample Reference				DS101				
Sample Number				None Supplied				
Depth (m)				3.00				
Date Sampled				15/06/2020				
Time Taken				None Supplied				
Analytical Parameter (Water Analysis)	Units	Limit of detection	Accreditation Status					

General Inorganics

pH	pH Units	N/A	ISO 17025	7.3				
Total Cyanide	µg/l	10	ISO 17025	< 10				
Complex Cyanide	µg/l	10	ISO 17025	< 10				
Free Cyanide	µg/l	10	ISO 17025	< 10				
Sulphate as SO ₄	µg/l	45	ISO 17025	77600				
Ammonium as NH ₄	µg/l	15	ISO 17025	940				

Phenols by GC-MS

Phenol	µg/l	0.05	NONE	< 0.05				
2,4,5-Trichlorophenol	µg/l	0.05	NONE	< 0.05				
2,4,6-Trichlorophenol	µg/l	0.05	NONE	< 0.05				
2,4-Dichlorophenol	µg/l	0.05	NONE	< 0.05				
2,4-Dimethylphenol	µg/l	0.05	NONE	< 0.05				
2-Chlorophenol	µg/l	0.05	NONE	< 0.05				
2-Methylphenol	µg/l	0.05	NONE	< 0.05				
2-Nitrophenol	µg/l	0.05	NONE	< 0.05				
4-Chloro-3-methylphenol	µg/l	0.05	NONE	< 0.05				
4-Methylphenol	µg/l	0.05	NONE	< 0.05				

Total Phenols

Total Phenols (GC-MS)	µg/l	0.5	NONE	< 0.5				
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Speciated PAHs

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

Total PAH

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

Arsenic (dissolved)	µg/l	0.15	ISO 17025	4.24				
Cadmium (dissolved)	µg/l	0.02	ISO 17025	0.03				
Chromium (hexavalent)	µg/l	5	ISO 17025	< 5.0				
Chromium (dissolved)	µg/l	0.2	ISO 17025	< 0.2				
Copper (dissolved)	µg/l	0.5	ISO 17025	1.2				
Lead (dissolved)	µg/l	0.2	ISO 17025	< 0.2				
Mercury (dissolved)	µg/l	0.05	ISO 17025	< 0.05				
Nickel (dissolved)	µg/l	0.5	ISO 17025	16				
Zinc (dissolved)	µg/l	0.5	ISO 17025	1.1				



Analytical Report Number: 20-14053

Project / Site name: Dyson Road

Your Order No: DS54788

Lab Sample Number				1533327				
Sample Reference				DS101				
Sample Number				None Supplied				
Depth (m)				3.00				
Date Sampled				15/06/2020				
Time Taken				None Supplied				
Analytical Parameter (Water Analysis)	Units	Limit of detection	Accreditation Status					

Monoaromatics & Oxygenates

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

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >C5 - C6	µg/l	1	ISO 17025	< 1.0				
TPH-CWG - Aliphatic >C6 - C8	µg/l	1	ISO 17025	< 1.0				
TPH-CWG - Aliphatic >C8 - C10	µg/l	1	ISO 17025	< 1.0				

TPH-CWG - Aromatic >C5 - C7	µg/l	1	ISO 17025	< 1.0				
TPH-CWG - Aromatic >C7 - C8	µg/l	1	ISO 17025	< 1.0				
TPH-CWG - Aromatic >C8 - C10	µg/l	1	ISO 17025	< 1.0				

Aliphatic >C10 - C12	µg/l	10	ISO 17025	12				
Aliphatic >C12 - C16	µg/l	10	ISO 17025	43				
Aliphatic >C16 - C21	µg/l	10	ISO 17025	33				
Aliphatic >C21 - C35	µg/l	10	ISO 17025	27				
Aliphatic >C10 - C35	µg/l	10	ISO 17025	120				

Aromatic >C10 - C12	µg/l	10	ISO 17025	100				
Aromatic >C12 - C16	µg/l	10	ISO 17025	280				
Aromatic >C16 - C21	µg/l	10	ISO 17025	220				
Aromatic >C21 - C35	µg/l	10	ISO 17025	110				
Aromatic >C10 - C35	µg/l	10	ISO 17025	710				



Analytical Report Number: 20-14053

Project / Site name: Dyson Road

Your Order No: DS54788

Lab Sample Number				1533327				
Sample Reference				DS101				
Sample Number				None Supplied				
Depth (m)				3.00				
Date Sampled				15/06/2020				
Time Taken				None Supplied				
Analytical Parameter (Water Analysis)	Units	Limit of detection	Accreditation Status					

VOCs

Chloromethane	µg/l	1	ISO 17025	< 1.0				
Chloroethane	µg/l	1	ISO 17025	< 1.0				
Bromomethane	µg/l	1	ISO 17025	< 1.0				
Vinyl Chloride	µg/l	1	NONE	< 1.0				
Trichlorofluoromethane	µg/l	1	NONE	< 1.0				
1,1-Dichloroethene	µg/l	1	ISO 17025	< 1.0				
1,1,2-Trichloro-1,2,2-trifluoroethane	µg/l	1	ISO 17025	< 1.0				
Cis-1,2-dichloroethene	µg/l	1	ISO 17025	< 1.0				
MTBE (Methyl Tertiary Butyl Ether)	µg/l	1	ISO 17025	< 1.0				
1,1-Dichloroethane	µg/l	1	ISO 17025	< 1.0				
2,2-Dichloropropane	µg/l	1	ISO 17025	< 1.0				
Trichloromethane	µg/l	1	ISO 17025	< 1.0				
1,1,1-Trichloroethane	µg/l	1	ISO 17025	< 1.0				
1,2-Dichloroethane	µg/l	1	ISO 17025	< 1.0				
1,1-Dichloropropene	µg/l	1	ISO 17025	< 1.0				
Trans-1,2-dichloroethene	µg/l	1	ISO 17025	< 1.0				
Benzene	µg/l	1	ISO 17025	< 1.0				
Tetrachloromethane	µg/l	1	ISO 17025	< 1.0				
1,2-Dichloropropane	µg/l	1	ISO 17025	< 1.0				
Trichloroethene	µg/l	1	ISO 17025	< 1.0				
Dibromomethane	µg/l	1	ISO 17025	< 1.0				
Bromodichloromethane	µg/l	1	ISO 17025	< 1.0				
Cis-1,3-dichloropropene	µg/l	1	ISO 17025	< 1.0				
Trans-1,3-dichloropropene	µg/l	1	ISO 17025	< 1.0				
Toluene	µg/l	1	ISO 17025	< 1.0				
1,1,2-Trichloroethane	µg/l	1	ISO 17025	< 1.0				
1,3-Dichloropropane	µg/l	1	ISO 17025	< 1.0				
Dibromochloromethane	µg/l	1	ISO 17025	< 1.0				
Tetrachloroethene	µg/l	1	ISO 17025	< 1.0				
1,2-Dibromoethane	µg/l	1	ISO 17025	< 1.0				
Chlorobenzene	µg/l	1	ISO 17025	< 1.0				
1,1,1,2-Tetrachloroethane	µg/l	1	ISO 17025	< 1.0				
Ethylbenzene	µg/l	1	ISO 17025	< 1.0				
p & m-Xylene	µg/l	1	ISO 17025	< 1.0				
Styrene	µg/l	1	ISO 17025	< 1.0				
Tribromomethane	µg/l	1	ISO 17025	< 1.0				
o-Xylene	µg/l	1	ISO 17025	< 1.0				
1,1,2,2-Tetrachloroethane	µg/l	1	ISO 17025	< 1.0				
Isopropylbenzene	µg/l	1	ISO 17025	< 1.0				
Bromobenzene	µg/l	1	ISO 17025	< 1.0				
n-Propylbenzene	µg/l	1	ISO 17025	< 1.0				
2-Chlorotoluene	µg/l	1	ISO 17025	< 1.0				
4-Chlorotoluene	µg/l	1	ISO 17025	< 1.0				
1,3,5-Trimethylbenzene	µg/l	1	ISO 17025	< 1.0				
tert-Butylbenzene	µg/l	1	ISO 17025	< 1.0				
1,2,4-Trimethylbenzene	µg/l	1	ISO 17025	< 1.0				
sec-Butylbenzene	µg/l	1	ISO 17025	< 1.0				
1,3-Dichlorobenzene	µg/l	1	ISO 17025	< 1.0				
p-Isopropyltoluene	µg/l	1	ISO 17025	< 1.0				
1,2-Dichlorobenzene	µg/l	1	ISO 17025	< 1.0				
1,4-Dichlorobenzene	µg/l	1	ISO 17025	< 1.0				
Butylbenzene	µg/l	1	ISO 17025	< 1.0				
1,2-Dibromo-3-chloropropane	µg/l	1	ISO 17025	< 1.0				
1,2,4-Trichlorobenzene	µg/l	1	ISO 17025	< 1.0				
Hexachlorobutadiene	µg/l	1	ISO 17025	< 1.0				
1,2,3-Trichlorobenzene	µg/l	1	ISO 17025	< 1.0				



Analytical Report Number: 20-14053

Project / Site name: Dyson Road

Your Order No: DS54788

Lab Sample Number				1533327				
Sample Reference				DS101				
Sample Number				None Supplied				
Depth (m)				3.00				
Date Sampled				15/06/2020				
Time Taken				None Supplied				
Analytical Parameter (Water Analysis)	Units	Limit of detection	Accreditation Status					

VOCs TICs

VOCs TICs Compound Name		10	NONE	ND				
VOC % Match	%	10	NONE	0				



Analytical Report Number: 20-14053

Project / Site name: Dyson Road

Your Order No: DS54788

Lab Sample Number				1533327				
Sample Reference				DS101				
Sample Number				None Supplied				
Depth (m)				3.00				
Date Sampled				15/06/2020				
Time Taken				None Supplied				
Analytical Parameter (Water Analysis)	Units	Limit of detection	Accreditation Status					

SVOCs

Aniline	µg/l	0.05	NONE	< 0.05				
Phenol	µg/l	0.05	NONE	< 0.05				
2-Chlorophenol	µg/l	0.05	NONE	< 0.05				
Bis(2-chloroethyl)ether	µg/l	0.05	NONE	< 0.05				
1,3-Dichlorobenzene	µg/l	0.05	NONE	< 0.05				
1,2-Dichlorobenzene	µg/l	0.05	NONE	< 0.05				
1,4-Dichlorobenzene	µg/l	0.05	NONE	< 0.05				
Bis(2-chloroisopropyl)ether	µg/l	0.05	NONE	< 0.05				
2-Methylphenol	µg/l	0.05	NONE	< 0.05				
Hexachloroethane	µg/l	0.05	NONE	< 0.05				
Nitrobenzene	µg/l	0.05	NONE	< 0.05				
4-Methylphenol	µg/l	0.05	NONE	< 0.05				
Isophorone	µg/l	0.05	NONE	4.2				
2-Nitrophenol	µg/l	0.05	NONE	< 0.05				
2,4-Dimethylphenol	µg/l	0.05	NONE	< 0.05				
Bis(2-chloroethoxy)methane	µg/l	0.05	NONE	< 0.05				
1,2,4-Trichlorobenzene	µg/l	0.05	NONE	< 0.05				
Naphthalene	µg/l	0.01	ISO 17025	< 0.01				
2,4-Dichlorophenol	µg/l	0.05	NONE	< 0.05				
4-Chloroaniline	µg/l	0.05	NONE	< 0.05				
Hexachlorobutadiene	µg/l	0.05	NONE	< 0.05				
4-Chloro-3-methylphenol	µg/l	0.05	NONE	< 0.05				
2,4,6-Trichlorophenol	µg/l	0.05	NONE	< 0.05				
2,4,5-Trichlorophenol	µg/l	0.05	NONE	< 0.05				
2-Methylnaphthalene	µg/l	0.05	NONE	< 0.05				
2-Chloronaphthalene	µg/l	0.05	NONE	< 0.05				
Dimethylphthalate	µg/l	0.05	NONE	< 0.05				
2,6-Dinitrotoluene	µg/l	0.05	NONE	< 0.05				
Acenaphthylene	µg/l	0.01	ISO 17025	< 0.01				
Acenaphthene	µg/l	0.01	ISO 17025	< 0.01				
2,4-Dinitrotoluene	µg/l	0.05	NONE	< 0.05				
Dibenzofuran	µg/l	0.05	NONE	< 0.05				
4-Chlorophenyl phenyl ether	µg/l	0.05	NONE	< 0.05				
Diethyl phthalate	µg/l	0.05	NONE	< 0.05				
4-Nitroaniline	µg/l	0.05	NONE	< 0.05				
Fluorene	µg/l	0.01	ISO 17025	< 0.01				
Azobenzene	µg/l	0.05	NONE	< 0.05				
Bromophenyl phenyl ether	µg/l	0.05	NONE	< 0.05				
Hexachlorobenzene	µg/l	0.05	NONE	< 0.05				
Phenanthrene	µg/l	0.01	ISO 17025	< 0.01				
Anthracene	µg/l	0.01	ISO 17025	< 0.01				
Carbazole	µg/l	0.05	NONE	< 0.05				
Dibutyl phthalate	µg/l	0.05	NONE	< 0.05				
Anthraquinone	µg/l	0.05	NONE	< 0.05				
Fluoranthene	µg/l	0.01	ISO 17025	< 0.01				
Pyrene	µg/l	0.01	ISO 17025	< 0.01				
Butyl benzyl phthalate	µg/l	0.05	NONE	< 0.05				
Benzo(a)anthracene	µg/l	0.01	ISO 17025	< 0.01				
Chrysene	µg/l	0.01	ISO 17025	< 0.01				
Benzo(b)fluoranthene	µg/l	0.01	ISO 17025	< 0.01				
Benzo(k)fluoranthene	µg/l	0.01	ISO 17025	< 0.01				
Benzo(a)pyrene	µg/l	0.01	ISO 17025	< 0.01				
Indeno(1,2,3-cd)pyrene	µg/l	0.01	ISO 17025	< 0.01				
Dibenz(a,h)anthracene	µg/l	0.01	ISO 17025	< 0.01				
Benzo(ghi)perylene	µg/l	0.01	ISO 17025	< 0.01				



Analytical Report Number: 20-14053

Project / Site name: Dyson Road

Your Order No: DS54788

Lab Sample Number				1533327				
Sample Reference				DS101				
Sample Number				None Supplied				
Depth (m)				3.00				
Date Sampled				15/06/2020				
Time Taken				None Supplied				
Analytical Parameter (Water Analysis)	Units	Limit of detection	Accreditation Status					

SVOCs TICs

SVOCs TICs Compound Name		N/A	NONE	2,5-Cyclohexadiene-1,4-dione, 2,6-bis(1,1-dimethylethyl)-				
SVOC % Match	%	N/A	NONE	98				
SVOCs TICs Compound Name		N/A	NONE	Pyridine-3-carboxamide, oxime, N-(2-trifluoromethylphenyl)-				
SVOC % Match	%	N/A	NONE	97				
SVOCs TICs Compound Name		N/A	NONE	2(3H)-Benzothiazolone				
SVOC % Match	%	N/A	NONE	95				
SVOCs TICs Compound Name		N/A	NONE	Benzene, 1,3-dimethyl-				
SVOC % Match	%	N/A	NONE	94				
SVOCs TICs Compound Name		N/A	NONE	Benzene, 1,2,3-trimethyl-				
SVOC % Match	%	N/A	NONE	93				
SVOCs TICs Compound Name		N/A	NONE	o-Toluidine				
SVOC % Match	%	N/A	NONE	93				
SVOCs TICs Compound Name		N/A	NONE	Benzene, 1,2,4-trimethyl-				
SVOC % Match	%	N/A	NONE	92				
SVOCs TICs Compound Name		N/A	NONE	Benzene, 2-ethenyl-1,4-dimethyl-				
SVOC % Match	%	N/A	NONE	92				
SVOCs TICs Compound Name		N/A	NONE	Alloaromadendrene oxide-(1)				
SVOC % Match	%	N/A	NONE	91				
SVOCs TICs Compound Name		N/A	NONE	Benzoic acid, 2,4-dichloro-, (4-methoxyphenyl) ester				
SVOC % Match	%	N/A	NONE	91				

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



Analytical Report Number : 20-14053

Project / Site name: Dyson Road

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Water (PrW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Ammonium as NH ₄ in water	Determination of Ammonium/Ammonia/Ammoniacal Nitrogen by the colorimetric salicylate/nitroprusside method. Accredited matrices SW, GW, PW.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L082-PL	W	ISO 17025
BTEX and MTBE in water (Monoaromatics)	Determination of BTEX and MTBE in water by headspace GC-MS. Accredited matrices: SW PW GW	In-house method based on USEPA8260	L073B-PL	W	ISO 17025
Complex cyanide in water	Determination of complex cyanide by calculation. Accredited matrices SW, PW, GW.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	ISO 17025
Free cyanide in water	Determination of free cyanide by distillation followed by colorimetry. Accredited matrices SW, GW, PW.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	ISO 17025
Hexavalent chromium in water	Determination of hexavalent chromium in water by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method by continuous flow analyser. Accredited Matrices SW, GW, PW.	L080-PL	W	ISO 17025
Metals in water by ICP-MS (dissolved)	Determination of metals in water by acidification followed by ICP-MS. Accredited Matrices: SW, GW, PW except B=SW,GW, Hg=SW,PW, Al=SW,PW.	In-house method based on USEPA Method 6020 & 200.8 "for the determination of trace elements in water by ICP-MS.	L012-PL	W	ISO 17025
pH at 20oC in water (automated)	Determination of pH in water by electrometric measurement. Accredited matrices: SW PW GW	In house method.	L099-PL	W	ISO 17025
Phenols, speciated, in water, by GCMS	Determination of speciated phenols in water by extraction in hexane followed by GC-MS.	In-house method based on USEPA 8270	L070-PL	W	NONE
Semi-volatile organic compounds in water	Determination of semi-volatile organic compounds in leachate by extraction in dichloromethane followed by GC-MS.	In-house method based on USEPA 8270	L102B-PL	W	NONE
Speciated EPA-16 PAHs in water	Determination of PAH compounds in water by extraction in dichloromethane followed by GC-MS with the use of surrogate and internal standards. Accredited matrices: SW PW GW	In-house method based on USEPA 8270	L102B-PL	W	ISO 17025
Sulphate in water	Determination of sulphate in water by acidification followed by ICP-OES. Accredited matrices: SW PW GW, PrW.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L039-PL	W	ISO 17025
Tentatively identified compounds (SVOC) in water	Determination of semi-volatile organic compounds total ion count in water by extraction with hexane followed by GC-MS followed by a full library scan.	In-house method based on USEPA 8270	L070-PL	W	NONE
Tentatively identified compounds (VOC) in water	Determination of volatile organic compounds total ion count in water by headspace GC-MS followed by a full library scan.	In-house method based on USEPA8260	L073B-PL	W	NONE
Total cyanide in water	Determination of total cyanide by distillation followed by colorimetry. Accredited matrices: SW PW GW	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	ISO 17025
TPH C10-C35 by GCxGC-FID	Determination of total petroleum hydrocarbons in water by GC x GC FID with carbon banding aliphatic and aromatic C10-C35. Accredited Matrices SW,GW,PW.	In-house method	L101B-PL	W	ISO 17025
TPH Chromatogram in Water	TPH Chromatogram in Water.	In-house method	L070-PL	W	NONE
TPHCWG (Waters)	Determination of dichloromethane extractable hydrocarbons in water by GC-MS, speciation by interpretation.	In-house method	L070-PL	W	ISO 17025

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The results included within the report relate only to the sample(s) submitted for testing.

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Analytical Report Number : 20-14053

Project / Site name: Dyson Road

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Water (PrW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Volatile organic compounds in water	Determination of volatile organic compounds in water by headspace GC-MS. Accredited matrices: SW PW GW	In-house method based on USEPA8260	L073B-PL	W	ISO 17025

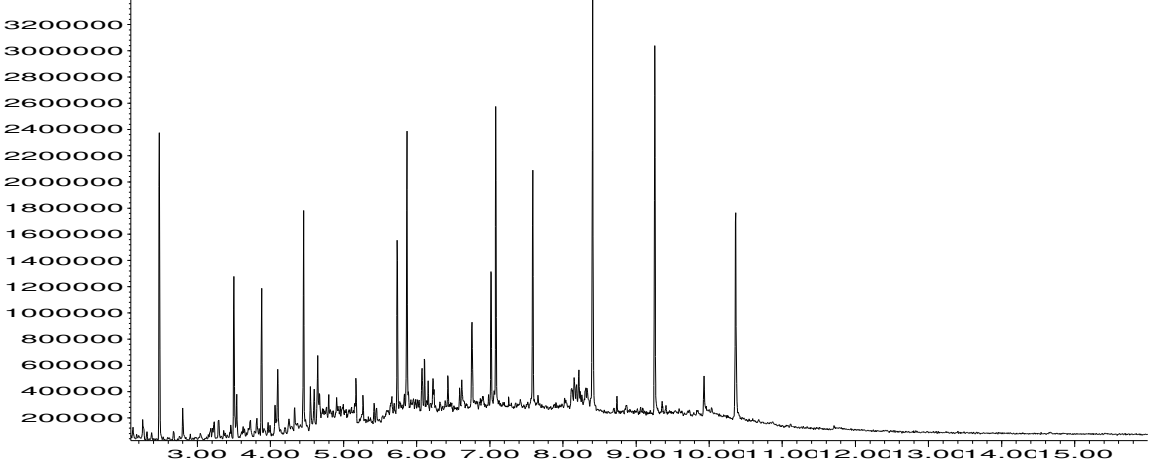
For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

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

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

Abundance

TIC: W0096-1533327-U31-L102B&L070B.D\ DATA.MS



Time-->

Appendix J – Field Monitoring Data

[illegible]

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